



Transcontinental Gas Pipe Line Company LLC
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WATER OBSTRUCTION AND
ENCROACHMENT PERMIT IMPACT MAPS

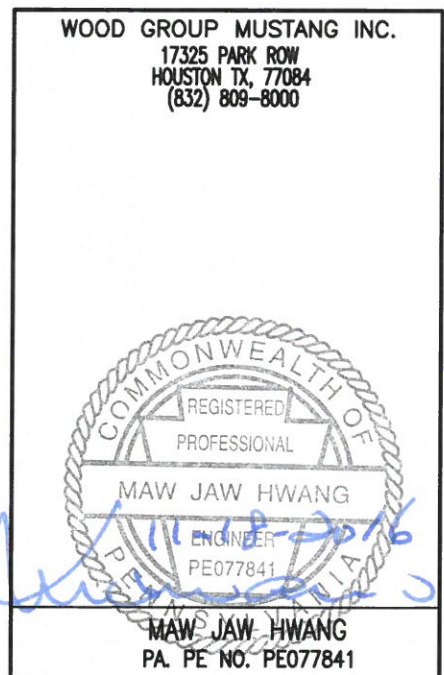
M.P. 27.21 TO M.P. 50.58

WYOMING COUNTY, PENNSYLVANIA



Transcontinental Gas Pipe Line Company LLC
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WATER OBSTRUCTION AND
ENCROACHMENT PERMIT IMPACT MAPS

M.P. 27.21 TO M.P. 50.58
WYOMING COUNTY, PENNSYLVANIA



DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1601-70-20-A/27.21-02	INDEX SHEET	1 OF 7	3
24-1601-70-20-A/27.21-01	INDEX SHEET	2 OF 7	1
24-1601-70-20-A/27.21-02	NOTES SHEET	3 OF 7	2
24-1601-70-14-A/27.21-02	PROJECT LOCATION KEY MAP	4 OF 7	3
24-1601-70-14-A/27.21-02	PROJECT LOCATION KEY MAP	5 OF 7	3
24-1601-70-14-A/27.21-02	PROJECT LOCATION KEY MAP	6 OF 7	3
24-1601-70-14-A/27.21-02	PROJECT LOCATION KEY MAP	7 OF 7	3
24-1601-70-20-A/AR-WY-021-01	W-T54-18010	1 OF 1	0
24-1601-70-20-A/M-0088-2.61-01	W-T57-18002-2	1 OF 1	0
24-1601-70-20-A/M-0088-3.15-01	W-T54-18005	1 OF 1	0
24-1601-70-09-A/M-0088-3.20-01	WW-T54-18002A, WW-T54-18002 & WW-T54-18002B	1 OF 1	0
24-1601-70-20-A/M-0088-3.73-01	W-T54-18006-3 / W-T54-18006-1 & W-T54-18007C	1 OF 2	0
24-1601-70-20-A/M-0088-3.73-01	W-T54-18006-3 / W-T54-18006-1 & W-T54-18007C	2 OF 2	0
24-1601-70-09-A/M-0088-3.80-01	WW-T54-18003	1 OF 1	0
24-1601-70-09-A/30.25-01	WW-T69-18001, WW-T69-18002, WW-T69-18003, WW-T69-18004	1 OF 2	0
24-1601-70-09-A/30.25-01	WW-T69-18001, WW-T69-18002, WW-T69-18003, WW-T69-18004	2 OF 2	0
24-1601-70-20-A/30.25-01	W-T69-18002C & W-T69-18002A	1 OF 1	0
24-1601-70-20-A/31.08-02	W-T08-18001	1 OF 1	0
24-1601-70-20-A/31.22-02	W-T05-18002A & W-T05-18002B-1 & W-T05-18002C	1 OF 1	0
24-1601-70-09-A/31.24-02	WW-T05-18001	1 OF 1	0
24-1601-70-20-A/32.45-02	W-T95-19008 / W-T95-19008-2	1 OF 1	0
24-1601-70-09-A/32.49-02	WW-T13-19001	1 OF 1	0
24-1601-70-20-A/32.53-02	W-T13-19001 / W-T13-19001-1	1 OF 3	0
24-1601-70-20-A/32.53-02	W-T13-19001 / W-T13-19001-1	2 OF 3	0
24-1601-70-20-A/32.53-02	W-T13-19001 / W-T13-19001-1	3 OF 3	0
24-1601-70-09-A/32.66-02	WW-T13-19002	1 OF 1	0
24-1601-70-09-A/32.72-02	WW-T13-19003	1 OF 1	0
24-1601-70-20-A/M-0071-0.52-01	W-T08-18001	1 OF 1	1
24-1601-70-20-A/M-0071-0.66-01	W-T05-18002A, W-T05-18002B-1 & W-T05-18002C	1 OF 1	1
24-1601-70-09-A/M-0071-0.68-01	WW-T05-18001	1 OF 1	1
24-1601-70-20-A/M-0071-1.89-01	W-T95-19008 / W-T95-19008-2	1 OF 1	1
24-1601-70-09-A/M-0071-1.92-01	WW-T13-19001	1 OF 1	1
24-1601-70-20-A/M-0071-1.99-01	W-T13-19001A / W-T13-19001A-1 & W-T13-19001C	1 OF 3	1
24-1601-70-20-A/M-0071-1.99-01	W-T13-19001A / W-T13-19001A-1 & W-T13-19001C	2 OF 3	1

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1601-70-20-A/M-0071-1.99-01	W-T13-19001A / W-T13-19001A-1 & W-T13-19001C	3 OF 3	1
24-1601-70-09-A/M-0071-2.06-01	WW-T92-19002	1 OF 1	0
24-1601-70-09-A/M-0071-2.09-01	WW-T13-19002	1 OF 1	1
24-1601-70-09-A/M-0071-2.16-01	WW-T13-19003	1 OF 1	1
24-1601-70-09-A/34.98-02	WW-T21-19001 & WW-T93-19001	1 OF 3	2
24-1601-70-09-A/34.98-02	WW-T21-19001 & WW-T93-19001	2 OF 3	1
24-1601-70-09-A/34.98-02	WW-T21-19001 & WW-T93-19001	3 OF 3	1
24-1601-70-09-A/35.08-02	WW-T95-19004A	1 OF 1	2
24-1601-70-20-A/35.08-02	W-T21-19001/W-T21-19001-1	1 OF 1	1
24-1601-70-09-A/35.89-02	WW-T21-19002	1 OF 1	1
24-1601-70-20-A/35.89-02	W-T19-19007	1 OF 1	2
24-1601-70-20-A/36.41-02	W-T19-19006	1 OF 1	1
24-1601-70-09-A/36.83-02	WW-T19-19002	1 OF 1	1
24-1601-70-20-A/36.85-02	W-T19-19004	1 OF 1	1
24-1601-70-20-A/36.91-02	W-T19-19003	1 OF 1	2
24-1601-70-09-A/37.07-02	WW-T19-19001 & WW-T95-19002	1 OF 1	2
24-1601-70-20-A/37.07-02	W-T19-19002A-1 & W-T19-19002B	1 OF 1	1
24-1601-70-20-A/37.27-02	W-T19-19001 / W-T19-19001-1	1 OF 1	1
24-1601-70-09-A/37.28-02	WW-T15-4001 & WW-T15-4002	1 OF 1	1
24-1601-70-20-A/37.60-02	W-T15-4001A / W-T15-4001A-1 & W-T15-4001B / W-T15-4001B-1 / W-T15-4001B-2 / W-T15-4001B-3	1 OF 1	2
24-1601-70-09-A/37.68-02	WW-T24-19001B, WW-T24-19001 & WW-T24-19001A	1 OF 1	2
24-1601-70-20-A/37.85-02	W-T95-19006A / W-T95-19006A-1	1 OF 1	1
24-1601-70-09-A/38.07-02	WW-T19-19003	1 OF 1	2
24-1601-70-09-A/38.53-01	WW-T54-19001	1 OF 1	0
24-1601-70-20-A/39.31-02	W-T12-19001	1 OF 1	2
24-1601-70-09-A/39.44-02	WW-T12-19001	1 OF 1	2
24-1601-70-20-A/39.99-02	W-T12-19002	1 OF 1	2
24-1601-70-09-A/40.00-02	WW-T12-19002	1 OF 1	1
24-1601-70-20-A/40.84-02	W-T12-19003C-1 & W-T12-19003A	1 OF 1	1
24-1601-70-09-A/40.87-02	WW-T93-20002	1 OF 1	1
24-1601-70-20-A/40.96-02	W-T12-19004	1 OF 1	1
24-1601-70-09-A/42.13-02	WW-T19-20006	1 OF 1	1
24-1601-70-20-A/M-0054-0.08-02	W-T19-20004 / W-T19-20004-1 / W-T19-20004-2	1 OF 2	2
24-1601-70-20-A/M-0054-0.08-02	W-T19-20004 / W-T19-20004-1 / W-T19-20004-2	2 OF 2	2

THIS DRAWING SUPERCEDES 24-1601-70-20-A/27.21-01



DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH INDEX SHEET M.P. 27.21 TO M.P. 50.58 WYOMING COUNTY, PENNSYLVANIA							
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MBS	DATE: 05/14/15	ISSUED FOR BID:	SCALE:	
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: JM	DATE: 05/14/15	ISSUED FOR CONSTRUCTION:	REVISION: 3	
1	11/20/15	AT	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 05/14/15	DRAWING NUMBER: 24-1601-70-20-A/27.21-02	SHEET 1	
2	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	W.C. 1161481	9/21/2016	11r.o.jol	OF 7	
3	10/13/16	MP	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH					

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1601-70-09-A/M-0054-0.10-02	WW-T19-20005	1 OF 1	1
24-1601-70-20-A/AR-WY-032-01	W-T68-20001	1 OF 1	0
24-1601-70-20-A/43.61-02	W-T14-20004	1 OF 1	2
24-1601-70-09-A/43.63-02	WW-T14-20004	1 OF 1	1
24-1601-70-09-A/43.71-02	WW-T14-20003	1 OF 1	1
24-1601-70-20-A/43.88-02	W-T14-20003	1 OF 1	1
24-1601-70-09-A/44.42-02	WW-T14-20002 & WW-T14-20002A	1 OF 1	2
24-1601-70-20-A/44.43-02	W-T14-20002	1 OF 1	1
24-1601-70-09-A/M-0063-0.25-01	WW-T21-CS605Zi01	1 OF 1	0
24-1601-70-20-A/45.23-02	W-T19-2003A / W-T19-2003A-1	1 OF 1	1
24-1601-70-09-A/45.32-02	WW-T19-20004	1 OF 2	2
24-1601-70-09-A/45.32-02	WW-T19-20004	2 OF 2	0
24-1601-70-20-A/45.32-02	W-T19-2003B	1 OF 1	1
24-1601-70-20-A/45.76-02	W-T10-20001C / W-T10-2001C-1 & W-T10-20001B & W-T10-20001A	1 OF 2	2
24-1601-70-20-A/45.76-02	W-T10-20001C / W-T10-2001C-1 & W-T10-20001B & W-T10-20001A	2 OF 2	2
24-1601-70-09-A/AR-WY-036-01	WW-T10-20001	1 OF 1	2
24-1601-70-09-A/45.78-02	WW-T10-20001	1 OF 2	2
24-1601-70-09-A/45.78-02	WW-T10-20001	2 OF 2	2
24-1601-70-09-A/45.94-02	WW-T10-20002	1 OF 1	2
24-1601-70-09-A/46.09-01	WW-T54-20001	1 OF 1	0
24-1601-70-20-A/46.11-01	W-T54-20002	1 OF 1	0
24-1601-70-09-A/46.17-01	WW-T54-20002	1 OF 1	0
24-1601-70-20-A/46.33-02	W-T28-20001	1 OF 1	1
24-1601-70-09-A/M-0058-0.22-02	WW-T10-20003	1 OF 1	2
24-1601-70-09-A/46.92-02	WW-T19-20002	1 OF 1	1
24-1601-70-09-A/47.23-02	WW-T19-20003	1 OF 1	2
24-1601-70-20-A/48.22-01	W-T65-20001A & W-T65-20001C	1 OF 1	0
24-1601-70-20-A/48.69-02	W-T19-20001	1 OF 1	1
24-1601-70-09-A/48.74-02	WW-T19-20001	1 OF 1	2
24-1601-70-09-A/M-0051-0.08-01	WW-T54-21001	1 OF 4	0
24-1601-70-09-A/M-0051-0.08-01	WW-T54-21001	2 OF 4	0
24-1601-70-09-A/M-0051-0.08-01	WW-T54-21001	3 OF 4	0
24-1601-70-09-A/M-0051-0.08-01	WW-T54-21001	4 OF 4	0
24-1601-70-20-A/49.53-02	W-T17-20001	1 OF 1	1

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1601-70-20-A/M-0080-0.23-01	W-T17-20001	1 OF 1	0
24-1601-70-20-A/M-0080-0.65-01	W-T57-21006	1 OF 1	0
24-1601-70-20-A/M-0080-0.77-01	W-T57-21005	1 OF 1	0
24-1601-70-20-A/M-0080-1.09-01	W-T57-21004	1 OF 1	0
24-1601-70-09-A/M-0080-1.10-01	WW-T57-21003	1 OF 1	0
24-1601-70-20-A/M-0080-1.15-01	W-T57-21003B	1 OF 1	0
24-1601-70-09-A/M-0080-1.27-01	WW-T57-21002	1 OF 1	0
24-1601-70-20-A/M-0080-1.30-01	W-T57-21002	1 OF 1	0
24-1601-70-20-A/50.48-02	W-T31-21001	1 OF 1	2
24-1601-70-26-D/BEC-02	TYPICAL BRIDGE EQUIPMENT CROSSING DETAIL (BEC)	1 OF 1	1



DRAWING NO.		REFERENCE TITLE				TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH INDEX SHEET M.P. 27.21 TO M.P. 50.58 WYOMING COUNTY, PENNSYLVANIA				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AT	DATE: 02/03/16	ISSUED FOR BID:	SCALE:
0	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 02/03/16	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	MP	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 02/03/16	DRAWING NUMBER: 24-1601-70-20-A/27.21-01	SHEET 2
							WC: 1161481	9/23/2016	t2le	OF 7



GENERAL NOTES:

1. WETLAND DELINEATION AND RESOURCE IMPACT CALCULATIONS COMPLETED BY ECOLOGY AND ENVIRONMENT, INC.
2. TRENCH PLUG, SEDIMENT BARRIER SIZE & PLACEMENT COMPLETED BY BL COMPANIES. THE LOD PROVIDED WITHIN THESE DRAWINGS ARE REPRESENTATIVE OF THE FERC CONSTRUCTION ROW AND ESCGP-2 LOD.
3. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED WITH NATIVE MATERIAL TO PRE-CONSTRUCTION ELEVATION.
4. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
5. THERE WILL BE NO NET FILL WITHIN THE WATERBODY.
6. BUOYANCY CONTROL MAY BE REQUIRED ACROSS WATERBODY. CONTRACTOR TO REFER TO CONSTRUCTION ALIGNMENTS FOR SIZE, NUMBER OF WEIGHTS AND/OR CONCRETE COATING THICKNESS.
7. TRENCH PLUGS WILL BE INSTALLED WHEN ENTERING & EXITING ALL WATERBODIES AND WETLANDS.
8. BEST MANAGEMENT PRACTICES (BMPs) FIGURES AND TYPICAL CROSS-SECTION DRAWINGS ARE PROVIDED IN ATTACHMENT 2 OF THE ENVIRONMENTAL CONSTRUCTION PLAN (ECP), AS WELL AS THE DETAILS PROVIDED IN THE BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET. REFER TO TABLE 1 FOR INFORMATION ON THE LOCATION OF THE CROSSING TYPICAL DETAILS WITHIN THE BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET. TIMBER MAT LOCATIONS ARE SHOWN FOR REPRESENTATION PURPOSES ONLY. AT A MINIMUM, ALL TIMBER MATTING AND PERIMETER BMPs WILL BE INSTALLED AS INDICATED WITHIN THE STREAM AND WETLAND CROSSING TYPICAL DETAILS.
9. MILE POSTS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE; THAT OTHER IDENTIFIERS OF WETLANDS AND WATERBODIES ARE FIXED.
10. ALL STREAM CROSSINGS WILL BE PERFORMED DURING LOW FLOW CONDITIONS WITH OVERSIGHT FROM AN ENVIRONMENTAL INSPECTOR. STORM EVENT WEATHER FORECASTS WILL BE MONITORED PRIOR TO AND DURING THE STREAM CROSSING.
11. DURING THE CONSTRUCTION PHASE, IF SHALLOW BEDROCK IS PRESENT, THEN THE PIPE LINE WILL BE INSTALLED THROUGH THE WATERBODY WITH A MINIMUM OF 2 FOOT OF COVER, AS THE REQUIRED 5 FOOT OF MINIMUM COVER WILL NOT BE FEASIBLE.

SURVEY NOTES:

1. BEARINGS SHOWN ARE GRID BEARINGS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM NORTH ZONE, NAD83.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88.
3. GEOGRAPHICAL COORDINATES REPRESENTED IN THE DRAWINGS ARE SHOWN IN WGS 1984, LATITUDE AND LONGITUDE, DECIMAL DEGREES.

Table 1 Stream and Wetland Crossing Typical References			
Typical Detail Name	Detail	Drawing Number	Sheet Number
Stream Crossing Typical			
Bridge Equipment Crossing	BEC	ASR-BMP	1 of 13
Cofferdam Stream Crossing	CD	ASR-BMP	1 of 13
Dam and Pump Stream Crossing	DPX	ASR-BMP	3 of 13
Flume Stream Crossing	FX	ASR-BMP	4 of 13
Wet Intermediate Waterbody Crossing	IWC	ASR-BMP	5 of 13
Wet Minor Waterbody Crossing	MWC	ASR-BMP	6 of 13
Temporary Stream Crossing Multiple Pipes	TSC.2	ASR-BMP	10 of 13
Bored Waterbody Crossing	WBX.1	ASR-BMP	12 of 13
Wetland Crossing Typical			
Timber Matting in Wetlands or at Low Points	MAT.1	ASR-BMP	5 of 13
Wetland Equipment Crossing	WEC	ASR-BMP	12 of 13
"Unsaturated Wetland" Installation Procedure	WCC.1	ASR-BMP	12 of 13
"Saturated Wetland" Installation Procedure	WCC.2	ASR-BMP	12 of 13
"Inundated Wetland" Installation Procedure	WCC.3	ASR-BMP	12 of 13

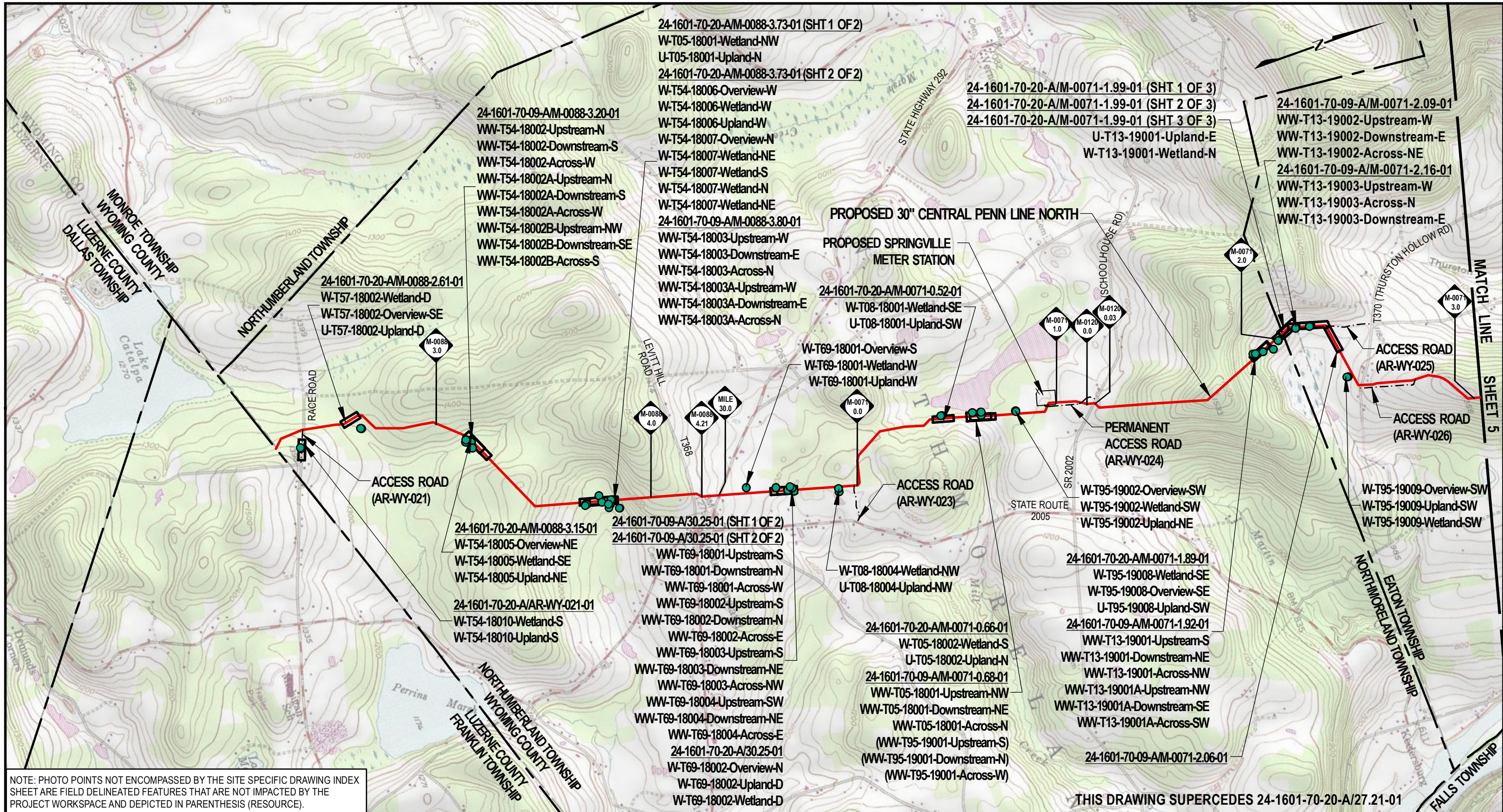
THIS DRAWING SUPERCEDES 24-1601-70-20-A/27.21-01



DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	02/03/16	AT	ISSUED FOR INTERNAL USE	1161481	CLR	MJH
2	10/13/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
NOTES SHEET
M.P. 27.21 TO M.P. 50.58
WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: MBS	DATE: 05/14/15	ISSUED FOR BID:	SCALE:
CHECKED BY: JM	DATE: 05/14/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 05/14/15	DRAWING NUMBER: 24-1601-70-20-A/27.21-02	SHEET 3
WC: 1161481		10/25/2016 mll	OF 7



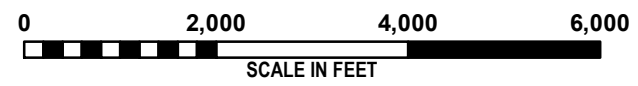
NOTE: PHOTO POINTS NOT ENCOMPASSED BY THE SITE SPECIFIC DRAWING INDEX SHEET ARE FIELD DELINEATED FEATURES THAT ARE NOT IMPACTED BY THE PROJECT WORKSPACE AND DEPICTED IN PARENTHESIS (RESOURCE).

THIS DRAWING SUPERCEDES 24-1601-70-20-A/27.21-01

LEGEND

- PHOTO POINT
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINE
- X- FENCE LINE
- - - ACCESS ROADS
- - - - - COUNTY/TOWNSHIP BOUNDARY
- CONTRACTOR STAGING AREA
- CONTRACTOR YARD/PIPE YARD
- SITE SPECIFIC INDEX SHEET

DRG 7.5 MIN. QUAD MAP:
41075-D8 (CENTER MORELAND, PA)

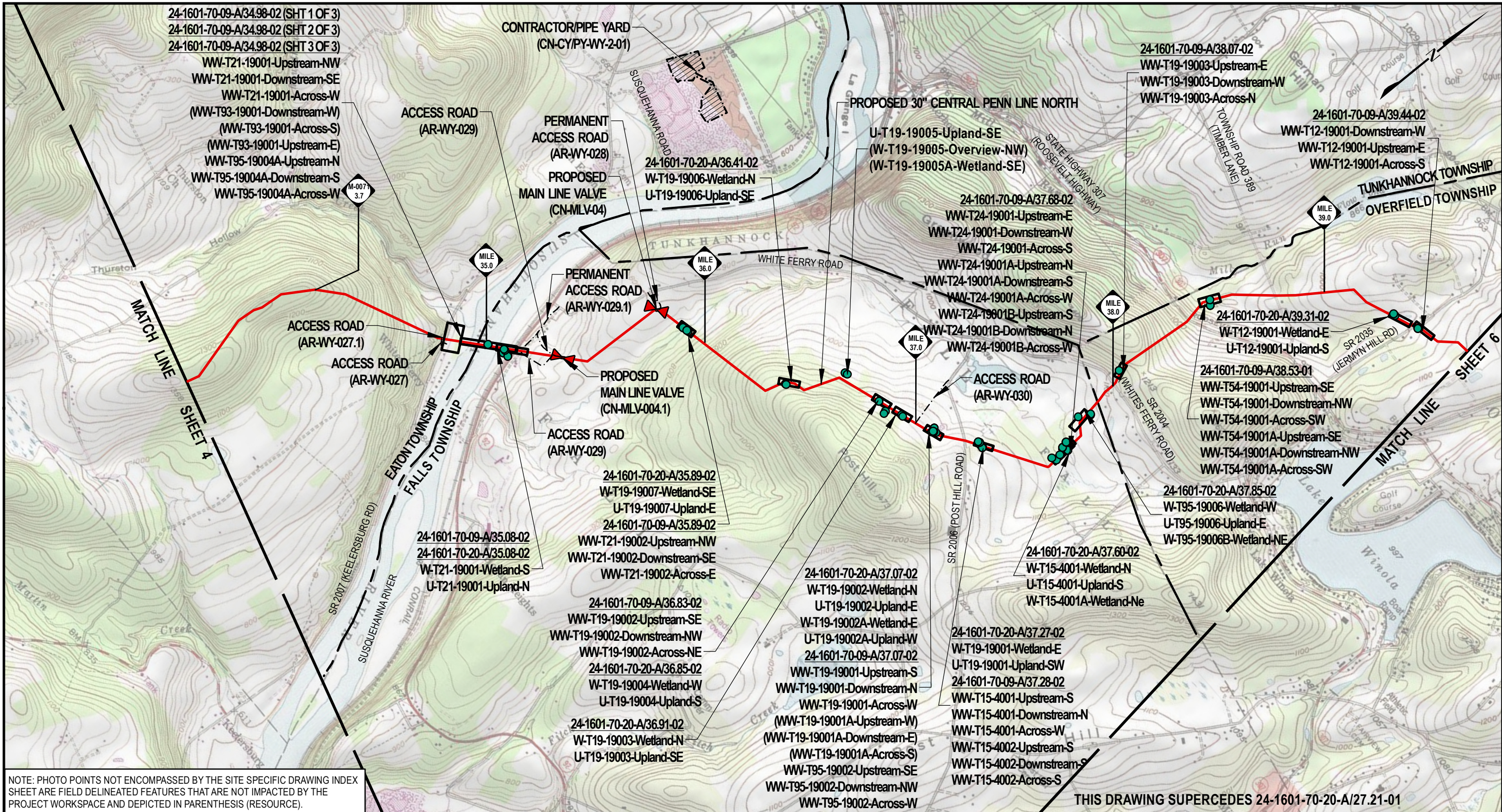


DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	8/11/15	CRW	ISSUED FOR PADEP 105 PERMIT	1161481	DP	MJH
1	11/20/15	CRW	ISSUED FOR INTERNAL USE	1161481	DP	MJH
2	02/03/16	JTN	ISSUED FOR INTERNAL USE	1161481	DP	MJH
3	10/13/16	JTN	ISSUED FOR PADEP SUBMITTAL #2	1161481	DP	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
TOPOGRAPHICAL PROJECT LOCATION MAP
M.P. 27.21 TO M.P. 50.58
WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: CRW	DATE: 5/14/15	ISSUED FOR BID:	SCALE: 1"=2,000'
CHECKED BY: CLR	DATE: 5/14/15	ISSUED FOR CONSTRUCTION:	REVISION: 3
APPROVED BY: MJH	DATE: 5/14/15	DRAWING NUMBER: 24-1601-70-14-A/27.21-02	SHEET 4 OF 7
WO: 1161481		10:48 AM 9/2/2016	



NOTE: PHOTO POINTS NOT ENCOMPASSED BY THE SITE SPECIFIC DRAWING INDEX SHEET ARE FIELD DELINEATED FEATURES THAT ARE NOT IMPACTED BY THE PROJECT WORKSPACE AND DEPICTED IN PARENTHESIS (RESOURCE).

THIS DRAWING SUPERCEDES 24-1601-70-20-A/27.21-01

LEGEND

- PHOTO POINT
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINE
- X FENCE LINE
- - - ACCESS ROADS
- - - COUNTY/TOWNSHIP BOUNDARY
- CONTRACTOR STAGING AREA
- CONTRACTOR YARD/PIPE YARD
- SITE SPECIFIC INDEX SHEET

DRG 7.5 MIN. QUAD MAP:
 41075-D8 (CENTER MORELAND, PA)
 41075-D7 (RANSOM, PA)
 41075-E7 (FACTORYVILLE, PA)

WOOD GROUP MUSTANG

0 2,000 4,000 6,000
 SCALE IN FEET

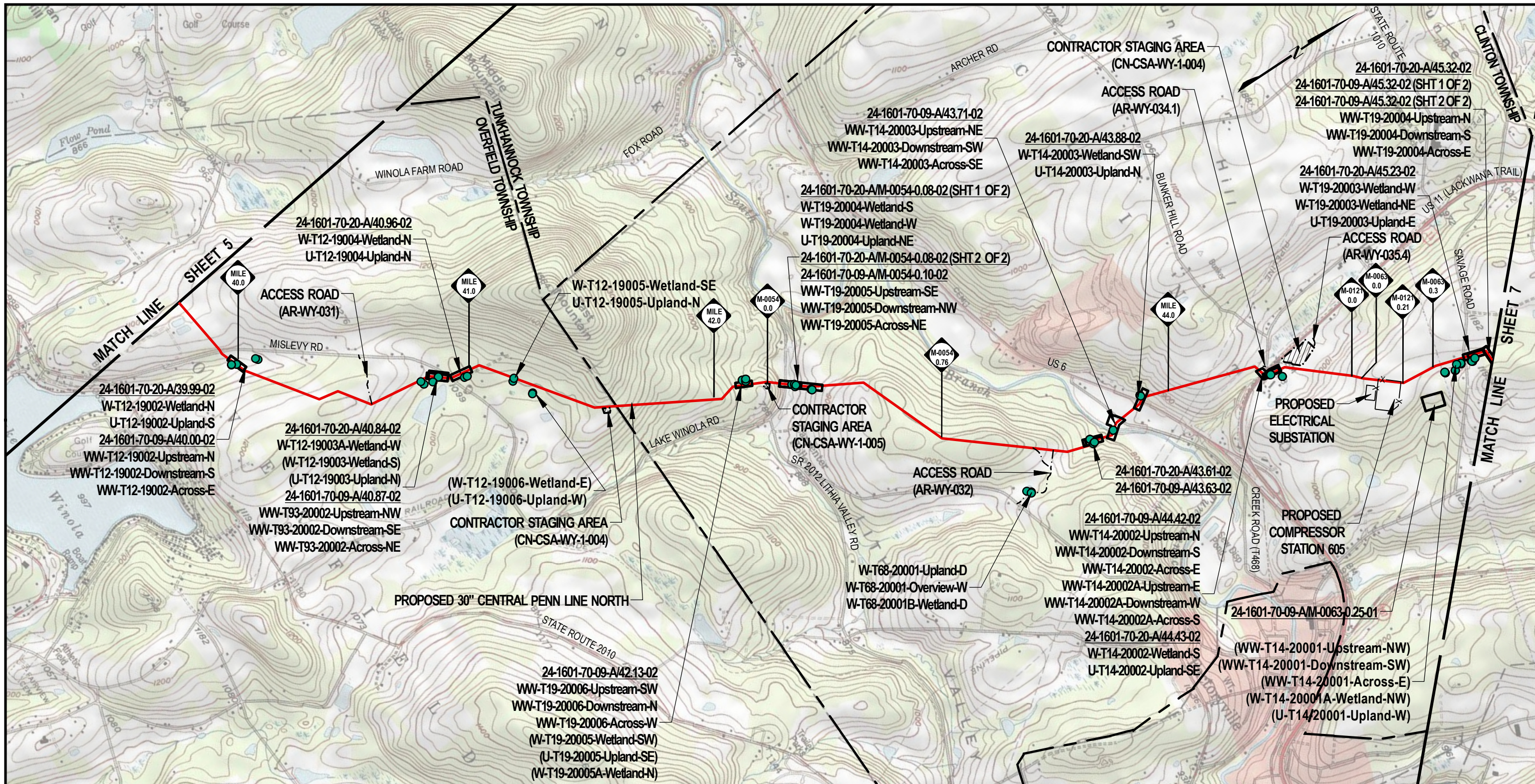
DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	8/11/15	CRW	ISSUED FOR PADEP 105 PERMIT	1161481	DP	MJH
1	11/20/15	CRW	ISSUED FOR INTERNAL USE	1161481	DP	MJH
2	02/03/16	JTN	ISSUED FOR INTERNAL USE	1161481	DP	MJH
3	10/13/16	JTN	ISSUED FOR PADEP SUBMITTAL #2	1161481	DP	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
TOPOGRAPHICAL PROJECT LOCATION MAP
M.P. 27.21 TO M.P. 50.58
WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: CRW	DATE: 5/14/15	ISSUED FOR BID:	SCALE: 1"=2,000'
CHECKED BY: CLR	DATE: 5/14/15	ISSUED FOR CONSTRUCTION:	REVISION: 3
APPROVED BY: MJH	DATE: 5/14/15	DRAWING NUMBER: 24-1601-70-14-A/27.21-02	SHEET 5 OF 7
WO: 1161481		12:58 PM 9/2/2016	



NOTE: PHOTO POINTS NOT ENCOMPASSED BY THE SITE SPECIFIC DRAWING INDEX SHEET ARE FIELD DELINEATED FEATURES THAT ARE NOT IMPACTED BY THE PROJECT WORKSPACE AND DEPICTED IN PARENTHESIS (RESOURCE).

THIS DRAWING SUPERCEDES 24-1601-70-20-A/27.21-01

LEGEND

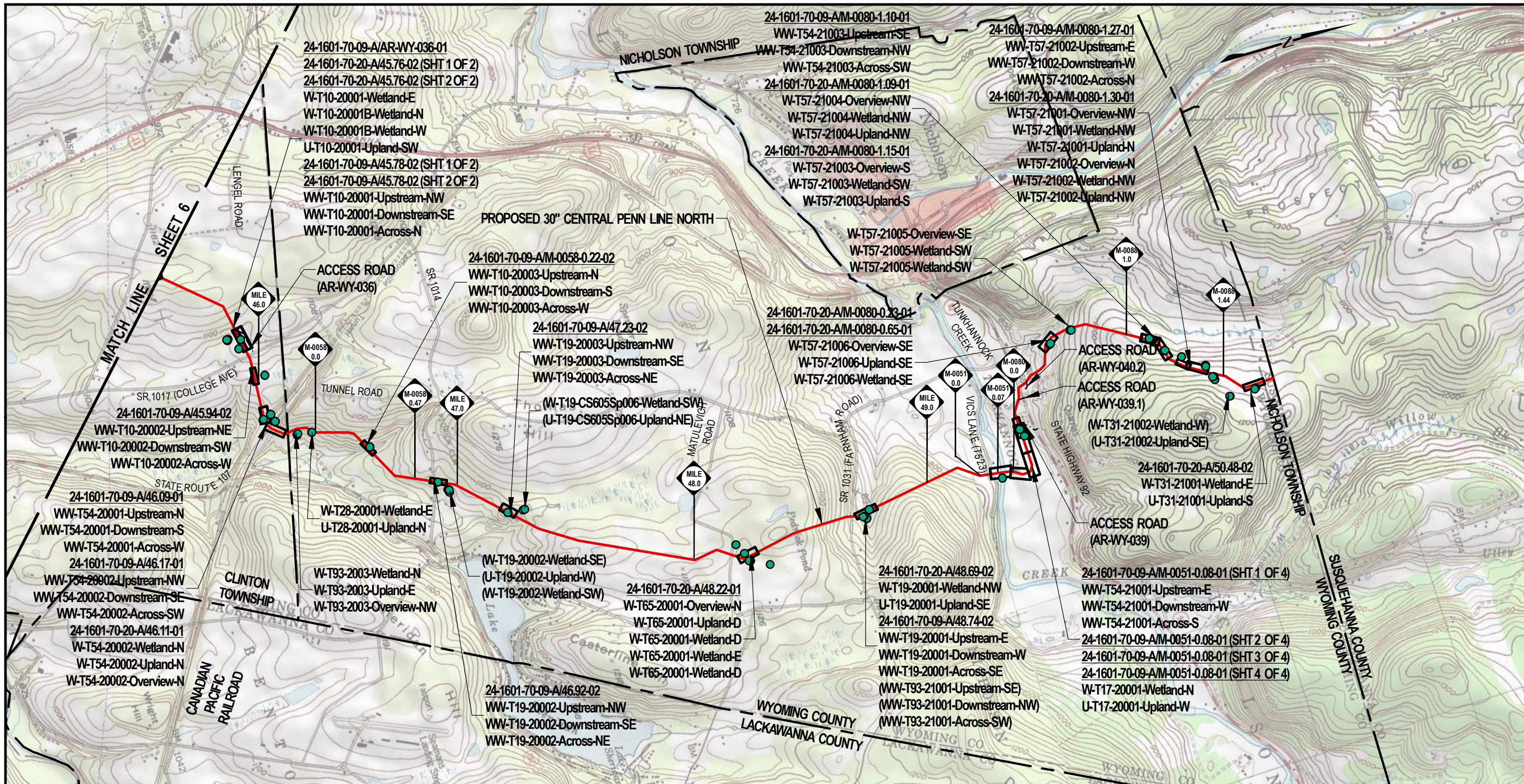
- PHOTO POINT
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINE
- X FENCE LINE
- - - ACCESS ROADS
- - - COUNTY/TOWNSHIP BOUNDARY
- CONTRACTOR STAGING AREA
- CONTRACTOR YARD/PIPE YARD
- SITE SPECIFIC INDEX SHEET

DRG 7.5 MIN. QUAD MAP:
41075-E7 (FACTORYVILLE, PA)

WOOD GROUP MUSTANG

0 2,000 4,000 6,000
SCALE IN FEET

DRAWING NO.		REFERENCE TITLE																			
NO.		DATE		BY		REVISION DESCRIPTION		W.O. NO.		CHK.		APP.		DRAWN BY: CRW		DATE: 5/14/15		ISSUED FOR BID:		SCALE: 1"=2,000'	
1		8/11/15		CRW		ISSUED FOR PADEP 105 PERMIT		1161481		DP		MJH		CHECKED BY: CLR		DATE: 5/14/15		ISSUED FOR CONSTRUCTION:		REVISION: 3	
2		11/20/15		CRW		ISSUED FOR INTERNAL USE		1161481		DP		MJH		APPROVED BY: MJH		DATE: 5/14/15		DRAWING NUMBER: 24-1601-70-14-A/27.21-02		SHEET 6	
3		02/03/16		JTN		ISSUED FOR INTERNAL USE		1161481		DP		MJH		W.O. NUMBER: 1161481		DATE: 5/14/15		DRAWING NUMBER: 24-1601-70-14-A/27.21-02		SHEET 6	
3		10/13/16		JTN		ISSUED FOR PADEP SUBMITTAL #2		1161481		DP		MJH		W.O. NUMBER: 1161481		DATE: 5/14/15		DRAWING NUMBER: 24-1601-70-14-A/27.21-02		SHEET 6	
3		10/13/16		JTN		ISSUED FOR PADEP SUBMITTAL #2		1161481		DP		MJH		W.O. NUMBER: 1161481		DATE: 5/14/15		DRAWING NUMBER: 24-1601-70-14-A/27.21-02		SHEET 6	



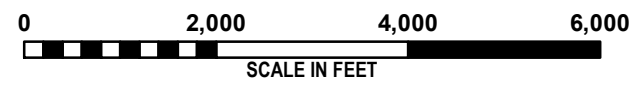
NOTE: PHOTO POINTS NOT ENCOMPASSED BY THE SITE SPECIFIC DRAWING INDEX SHEET ARE FIELD DELINEATED FEATURES THAT ARE NOT IMPACTED BY THE PROJECT WORKSPACE AND DEPICTED IN PARENTHESIS (RESOURCE).

THIS DRAWING SUPERCEDES 24-1601-70-20-A/27.21-01

LEGEND

- PHOTO POINT
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINE
- X FENCE LINE
- - - ACCESS ROADS
- - - COUNTY/TOWNSHIP BOUNDARY
- CONTRACTOR STAGING AREA
- CONTRACTOR YARD/PIPE YARD
- SITE SPECIFIC INDEX SHEET

DRG 7.5 MIN. QUAD MAP:
41075-E7 (FACTORYVILLE, PA)
41075-F7 (HOP BOTTOM, PA)



DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	8/11/15	CRW	ISSUED FOR PADEP 105 PERMIT	1161481	DP	MJH
1	11/20/15	CRW	ISSUED FOR INTERNAL USE	1161481	DP	MJH
2	02/03/16	JTN	ISSUED FOR INTERNAL USE	1161481	DP	MJH
3	10/13/16	JTN	ISSUED FOR PADEP SUBMITTAL #2	1161481	DP	MJH

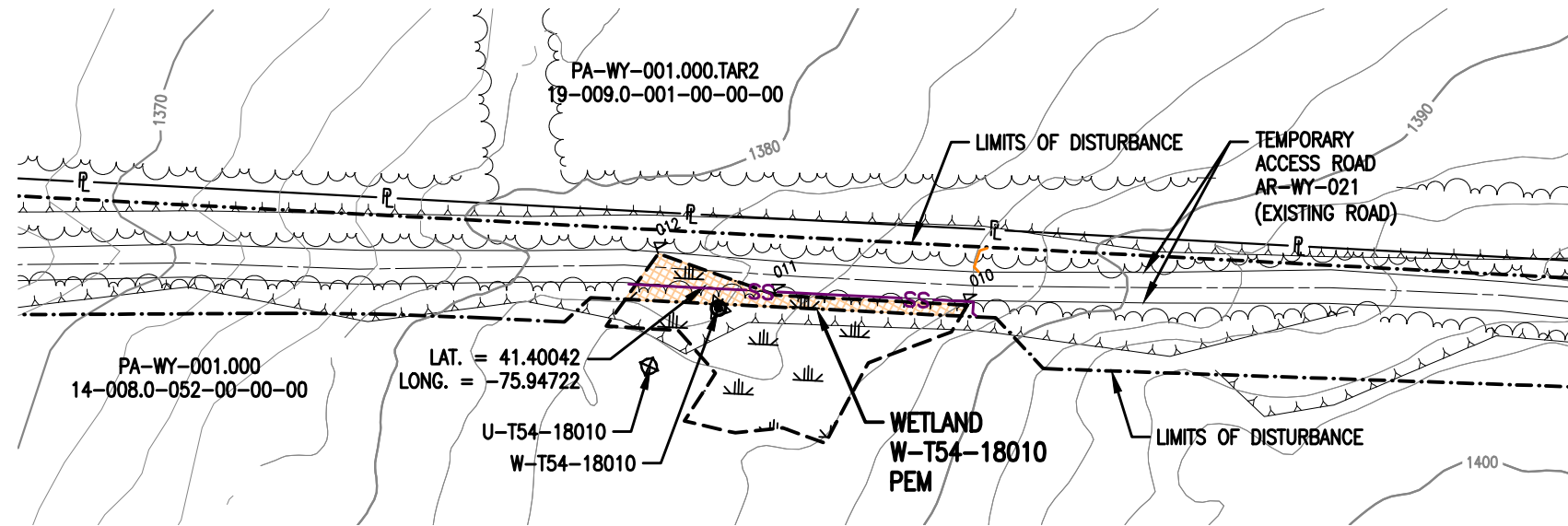
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
TOPOGRAPHICAL PROJECT LOCATION MAP
M.P. 27.21 TO M.P. 50.58
WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: CRW	DATE: 5/14/15	ISSUED FOR BID:	SCALE: 1"=2,000'
CHECKED BY: CLR	DATE: 5/14/15	ISSUED FOR CONSTRUCTION:	REVISION: 3
APPROVED BY: MJH	DATE: 5/14/15	DRAWING NUMBER: 24-1601-70-14-A/27.21-02	SHEET 7 OF 7
WO: 1161481		1:23 PM 9/2/2016	

WETLAND DISTURBANCE:

WETLAND W-T54-18010	ACRE
TEMPORARY DISTURBANCE	0.0118
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0118



LAT. = 41.40042
LONG. = -75.94722

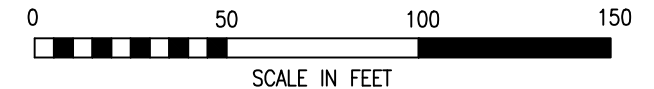
PLAN
SCALE: 1" = 50'

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 59.49' RT. OF M-0088 M.P. 2.42 ELEV. = 1345.86' (NAVD88).



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT WETLAND IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY WETLAND IMPACT
	EXISTING POWER LINE		FLOODWAY BOUNDARY		
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

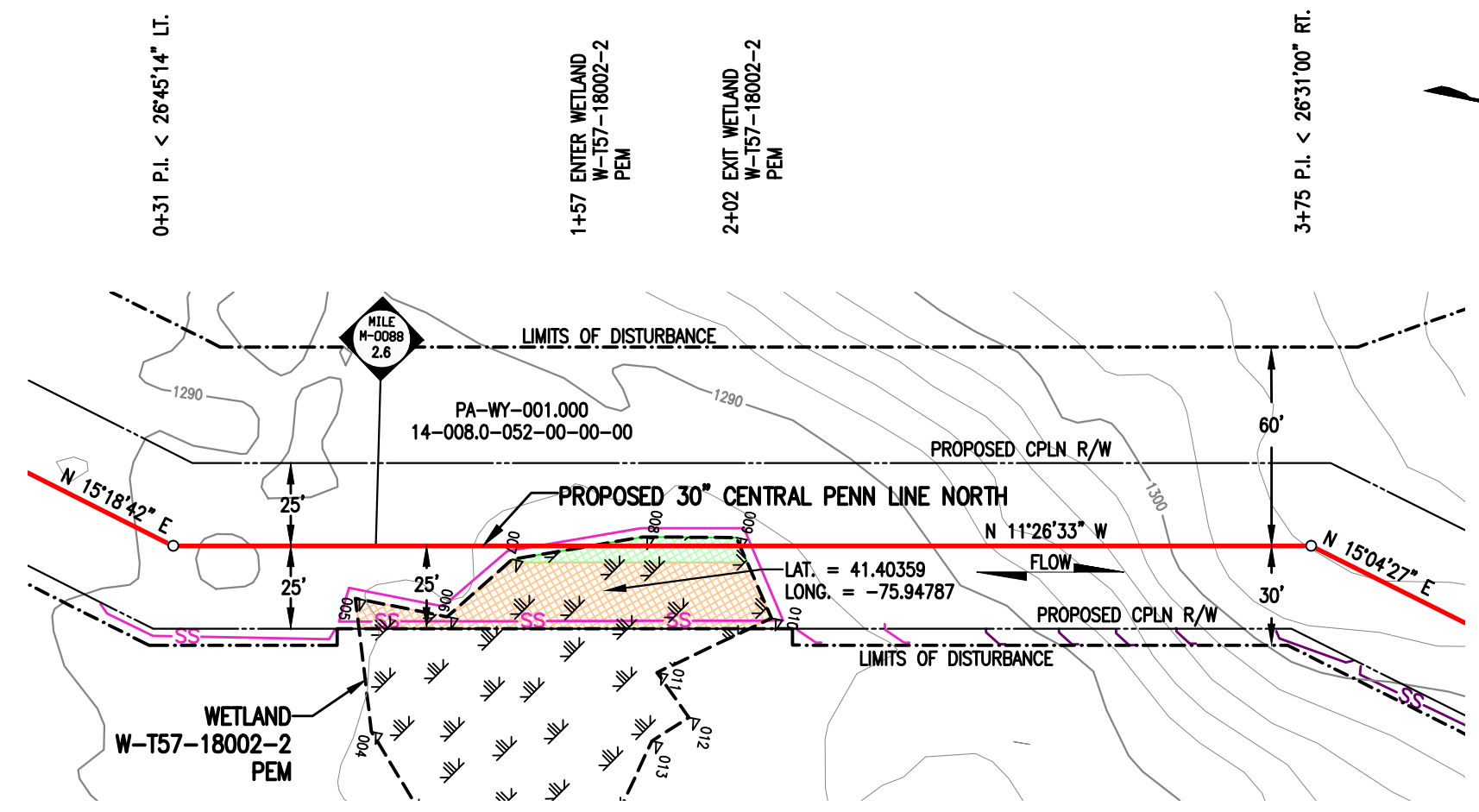
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T54-18010
© M-0088 M.P. 2.40
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: THL	DATE: 06/23/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/05/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-20-A/AR-WY-021-01	SHEET 1
WO: 1161481		9/20/2016 olgrego	OF 1

WETLAND DISTURBANCE:

WETLAND W-T57-18002-2	ACRE
TEMPORARY DISTURBANCE	0.0434
PERMANENT DISTURBANCE	0.0092
TOTAL DISTURBANCE	0.0526



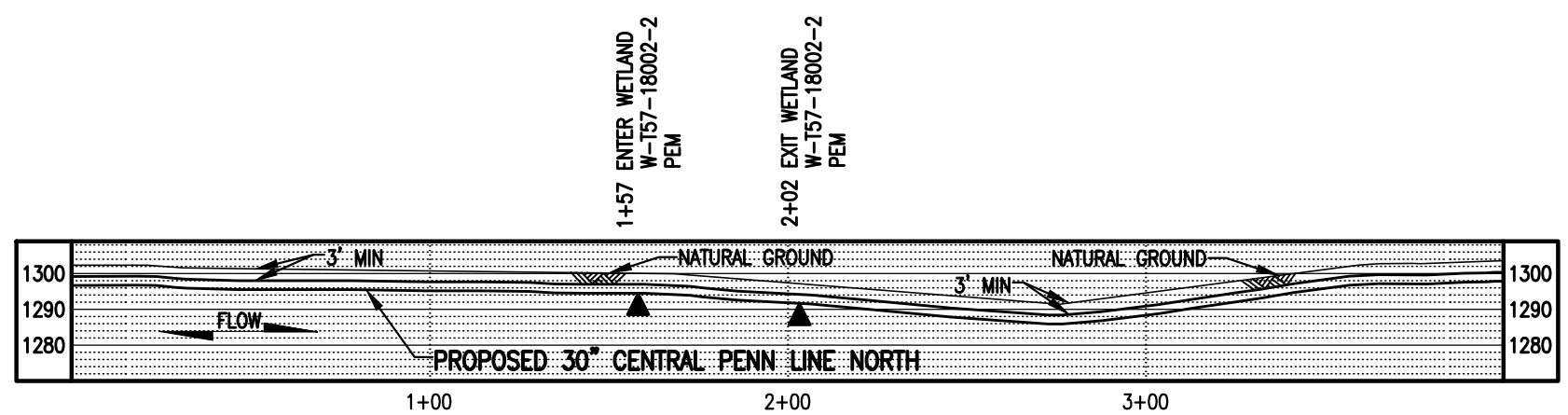
PLAN
SCALE: 1" = 50'

NOTES:

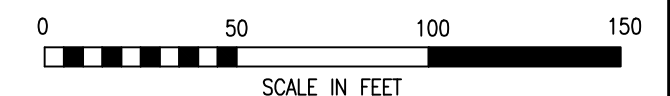
1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO M-0088 STATION 137+36 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 515.47' LT. OF M-0088 M.P. 2.61 ELEV. = 1323.60' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS	
	EXISTING PIPELINES		PHOTO DATA POINT	
	EXISTING TGPL R/W		WETLAND DATA POINT	
	LIMITS OF DISTURBANCE		UPLAND DATA POINT	
	PROPOSED CPLN R/W		WELL POINT	
	PROPERTY LINE		TRENCH PLUG	
	FOREIGN PIPELINE		WATERBODY	
	WETLAND AREA		TREE LINE	
	EXISTING POWER LINE		FLOODWAY BOUNDARY	
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY	

	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK
	PERMANENT WETLAND IMPACT
	TEMPORARY WETLAND IMPACT

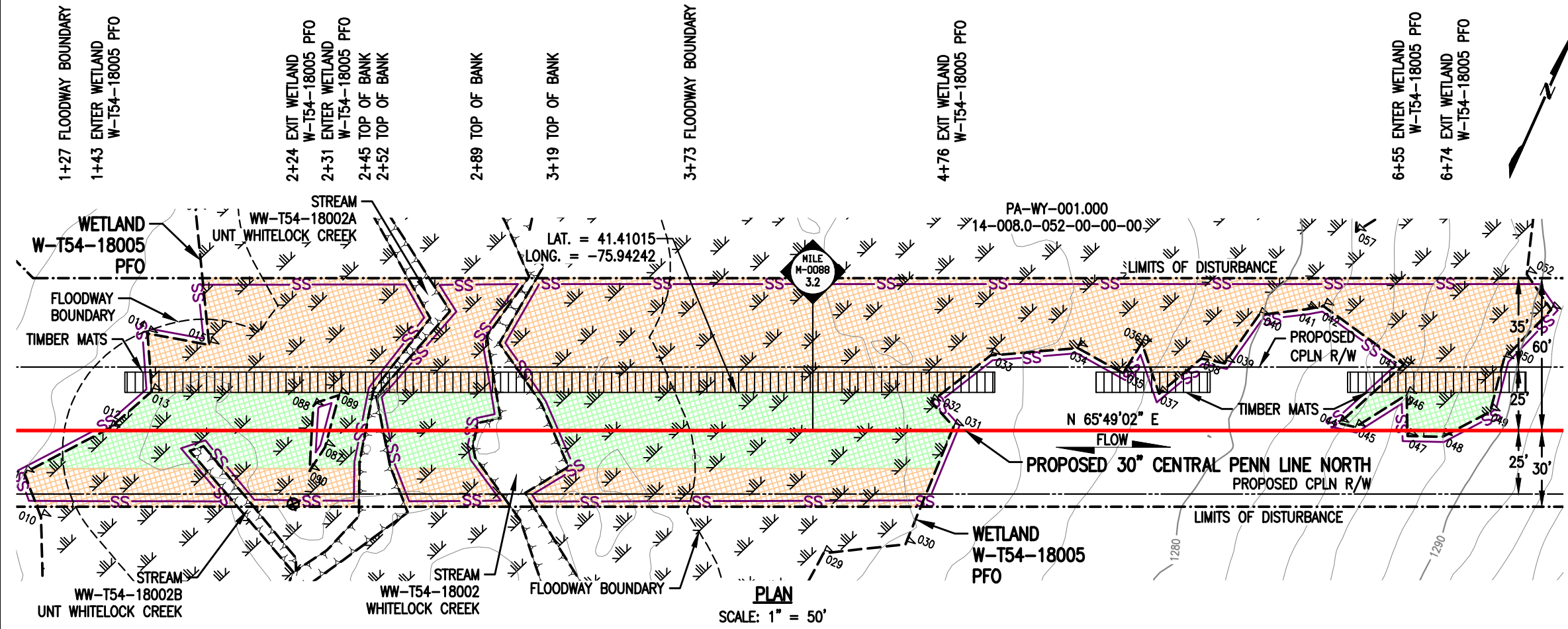
DRAWING NO.	REFERENCE TITLE
0	ISSUED FOR PADEP SUBMITTAL #2

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T57-18002-2
● M-0088 M.P. 2.61
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

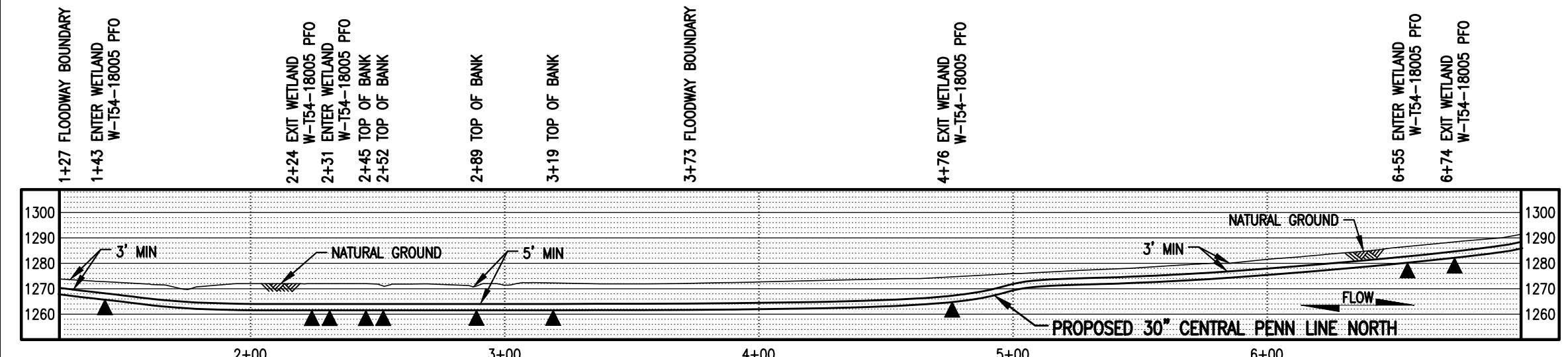
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CHECKED BY: CLR	DATE: 06/29/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/30/16	DRAWING NUMBER: 24-1601-70-20-A/M-0088-2.61-01	SHEET 1
WC: 1161481		9:17am 10/18/2016 d1kudll	OF 1

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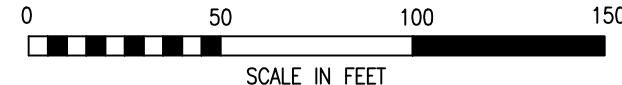


WETLAND DISTURBANCE:

WETLAND W-T54-18005 (EV)	ACRE
TEMPORARY DISTURBANCE	0.5716
PERMANENT DISTURBANCE	0.2150
TOTAL DISTURBANCE	0.7866



- NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 2+00 SHOWN IS EQUAL TO M-0088 STATION 166+75 ON THE EROSION AND SEDIMENT CONTROL PLAN.
- SURVEY NOTES:**
- T.B.M. SURVEY CONTROL POINT - 1.29' LT. OF M-0088 M.P. 3.17, ELEV. = 1271.95' (NAVD88).



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	EXISTING POWER LINE		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY

- SS 12" SEDIMENT BARRIER
- SS 18" SEDIMENT BARRIER
- SS 24" SEDIMENT BARRIER
- SS 32" SEDIMENT BARRIER
- TOP OF BANK

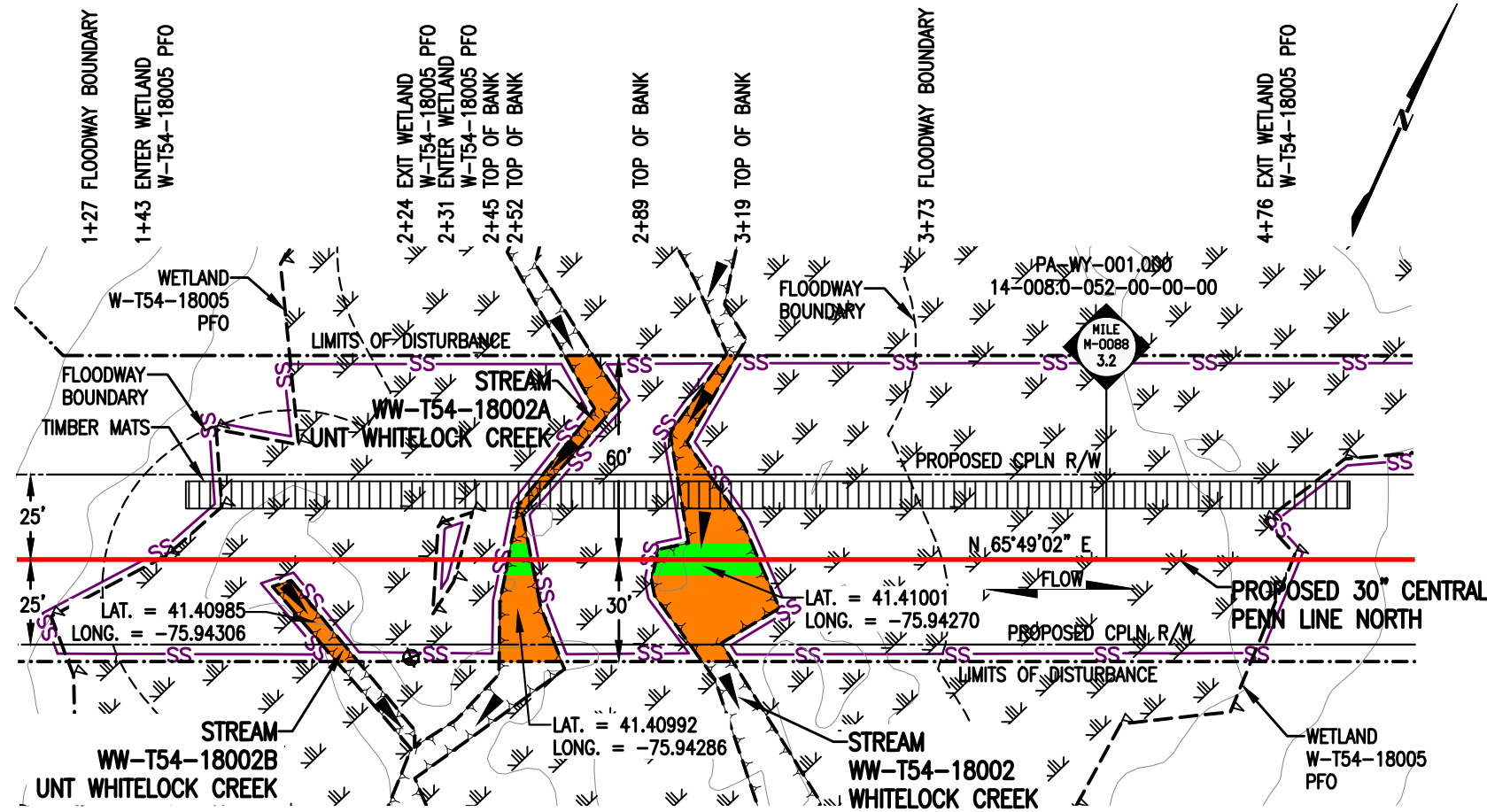
- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT

WOOD GROUP MUSTANG, INC.

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T54-18005
M-0088 M.P. 3.19
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWING NO.	REFERENCE TITLE													
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DLK	DATE:	07/06/16	ISSUED FOR BID:	SCALE: 1" = 50'		
0	10/13/16	DLK	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY:	MRL	DATE:	07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0		
							APPROVED BY:	MJH	DATE:	07/06/16	DRAWING NUMBER:	24-1601-70-20-A/M-0088-3.15-01		
							WC:	1161481			8:56am	9/21/2016	1161481	
											K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_M-0088-3.15-01.dwg		SHEET 1 OF 1	



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T54-18002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0247
PERMANENT STREAM DISTURBANCE	0.0067
TOTAL STREAM DISTURBANCE	0.0314
TEMPORARY FLOODWAY DISTURBANCE	0.0220
PERMANENT FLOODWAY DISTURBANCE	0.0051
TOTAL FLOODWAY DISTURBANCE	0.0271

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	30.15
STREAM LENGTH	97.62

STREAM WW-T54-18002A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0143
PERMANENT STREAM DISTURBANCE	0.0016
TOTAL STREAM DISTURBANCE	0.0159
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	6.85
STREAM LENGTH	98.91

STREAM WW-T54-18002B	ACRE
TEMPORARY STREAM DISTURBANCE	0.0035
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0035
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

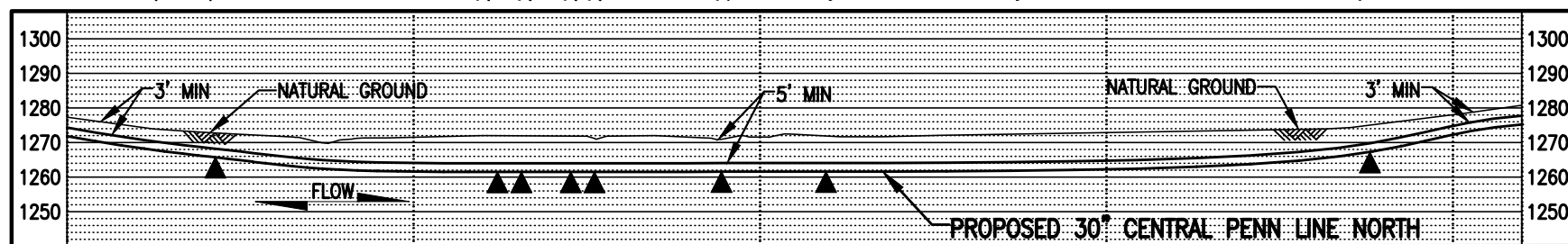
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.32
STREAM LENGTH	29.48

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR STREAMS WW-T54-18002 AND WW-T54-18002A SHALL BE DAM AND PUMP (DPX). STREAM WW-T54-18002B DOES NOT CROSS PIPELINE. EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO M.P. M-0088-3.14 STATION 165+75 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 1.29' LT. OF M-0088 M.P. 3.17, ELEV. = 1271.95' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE
- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊗ WETLAND DATA POINT
- ⊗ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- ▲ WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY
- SS 12" SEDIMENT BARRIER
- SS 18" SEDIMENT BARRIER
- SS 24" SEDIMENT BARRIER
- SS 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT



DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/13/16	JN	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T54-18002 @ M-0088 M.P. 3.18,
WW-T54-18002A @ M-0088 M.P. 3.17, WW-T54-18002B @ M-0088 M.P. 3.16
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

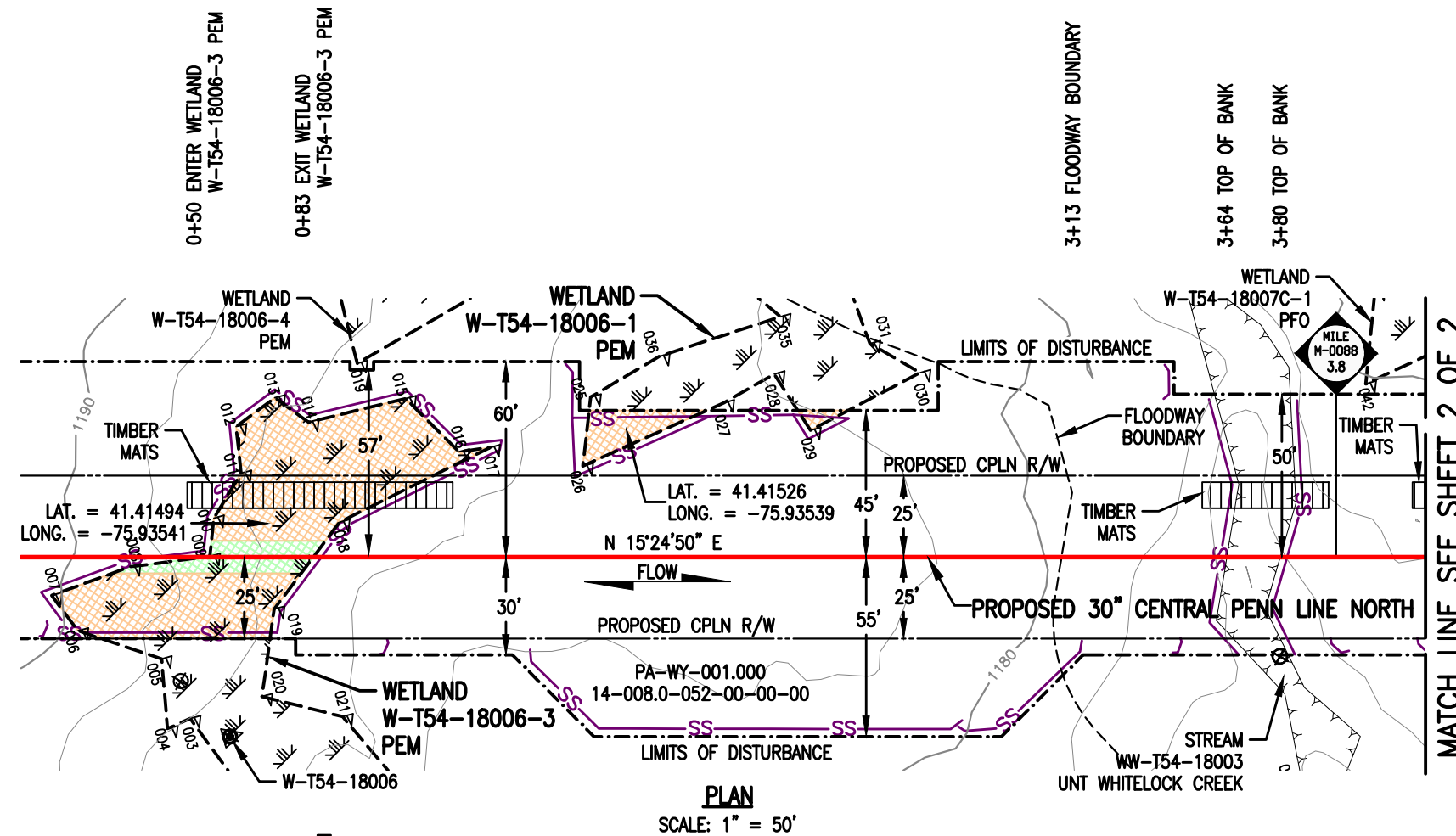
Williams

DRAWN BY: FH	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: MRL	DATE: 05/27/15	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/03/15	DRAWING NUMBER: 24-1601-70-09-A/M-0088-3.20-01	SHEET 1
WC: 1161481		9/21/2016	OF 1

WETLAND DISTURBANCE:

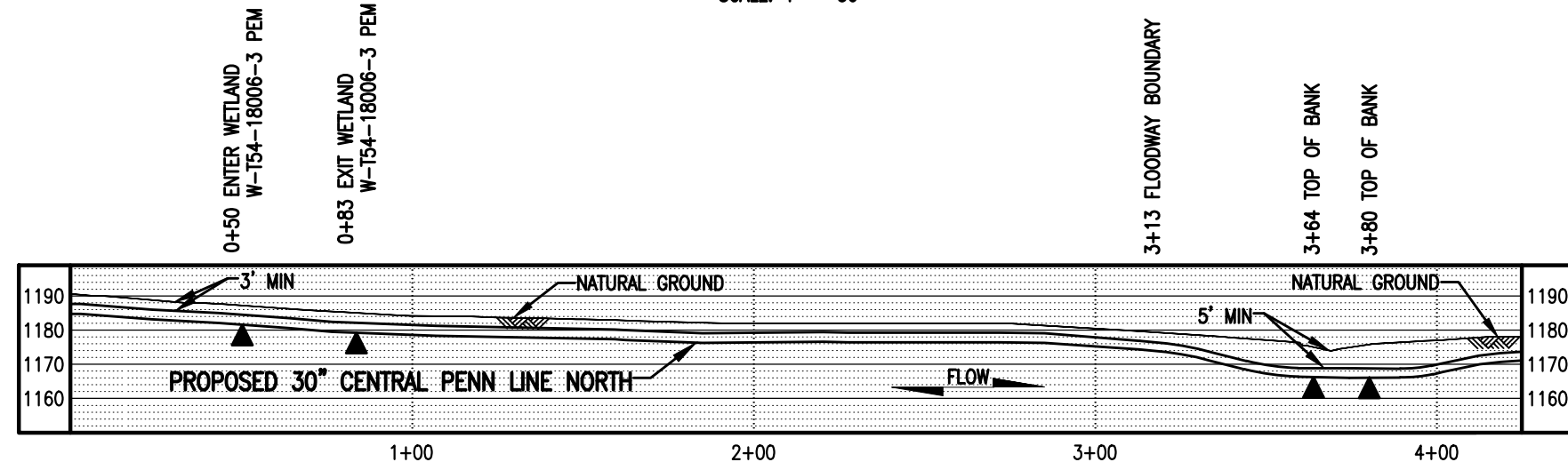
WETLAND W-T54-18006-3 / W-T54-18006-1 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0876
PERMANENT DISTURBANCE	0.0094
TOTAL DISTURBANCE	0.0970

WETLAND W-T54-18007C (EV)	ACRE
TEMPORARY DISTURBANCE	0.0642
PERMANENT DISTURBANCE	0.0799
TOTAL DISTURBANCE	0.1441



PLAN
SCALE: 1" = 50'

MATCH LINE SEE SHEET 2 OF 2



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0088 STATION 197+67 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 196.41' RT. OF M-0088 M.P. 3.79 ELEV. = 1174.13' (NAVD88).



LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - - LIMITS OF DISTURBANCE
- - - - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- P — EXISTING POWER LINE
- X — EXISTING FENCE

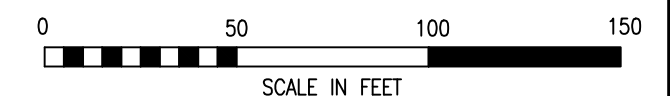
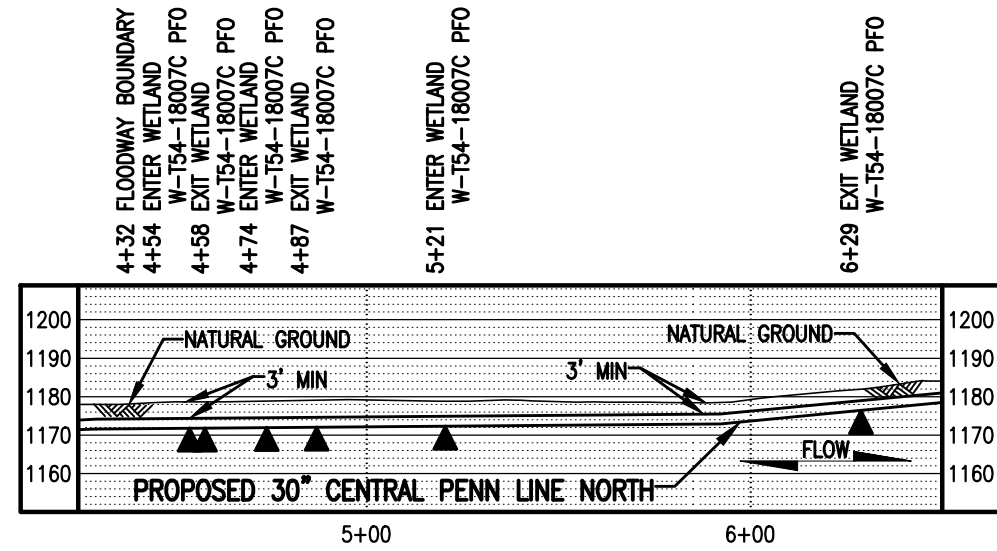
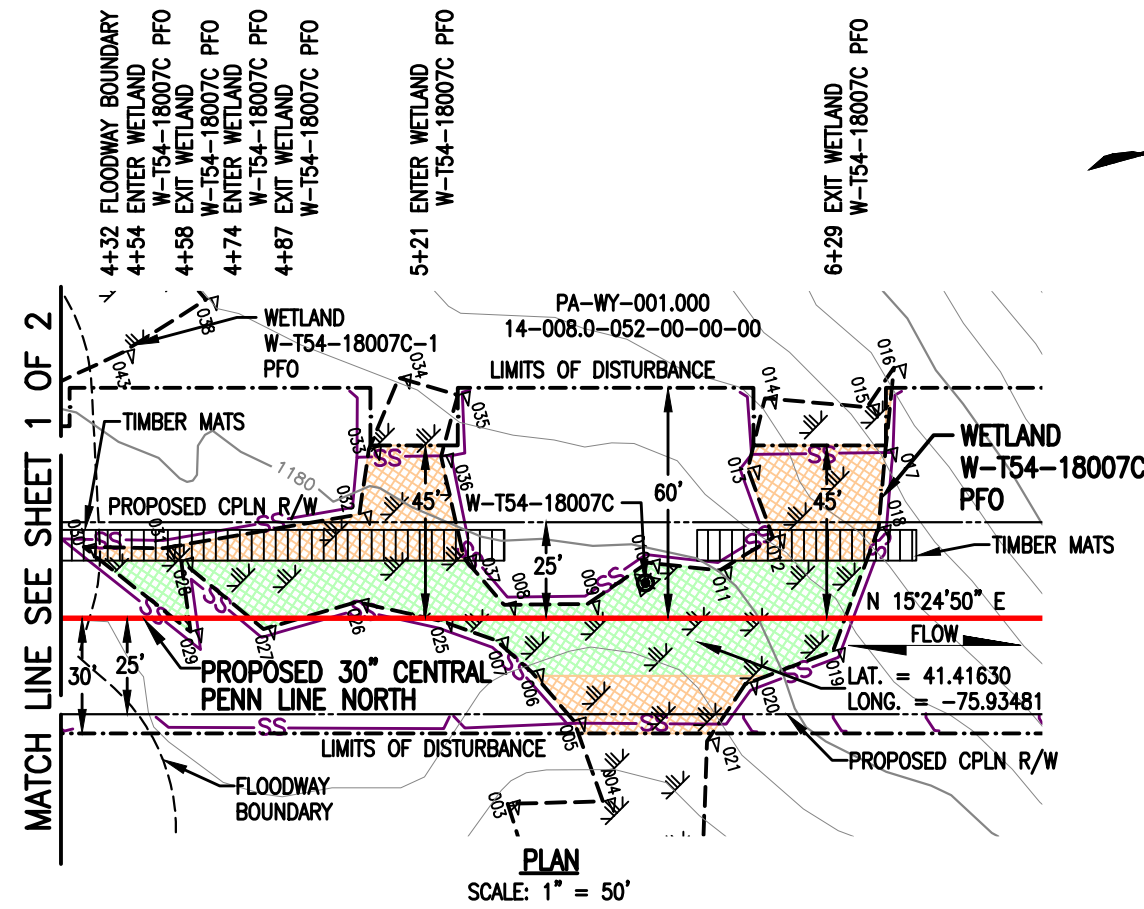
WOOD GROUP MUSTANG, INC.

- WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- WELL POINT
- TRENCH PLUG
- WATERBODY
- TREE LINE
- - - - - FLOODWAY BOUNDARY
- - - - - FEMA FLOODWAY BOUNDARY

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT

DRAWING NO.		REFERENCE TITLE													
NO.		DATE		BY		REVISION DESCRIPTION		W.O. NO.		CHK.		APP.			
0		10/13/16		JJB		ISSUED FOR PADEP SUBMITTAL #2		1161481		CLR		MJH			
DRAWN BY: JJB				DATE: 06/27/16				ISSUED FOR BID:				SCALE: 1" = 50'			
CHECKED BY: CLR				DATE: 06/27/16				ISSUED FOR CONSTRUCTION:				REVISION: 0			
APPROVED BY: MJH				DATE: 06/28/16				DRAWING NUMBER: 24-1601-70-20-A/M-0088-3.73-01				SHEET 1			
WC: 1161481				9/21/2016				11ro.jal				OF 2			

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T54-18006-3 / W-T54-18006-1 &
W-T54-18007C @ M-0088 M.P. 3.73
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA



LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	EXISTING POWER LINE		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY
			12" SEDIMENT BARRIER
			18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
	PERMANENT WETLAND IMPACT		TOP OF BANK
	TEMPORARY WETLAND IMPACT		

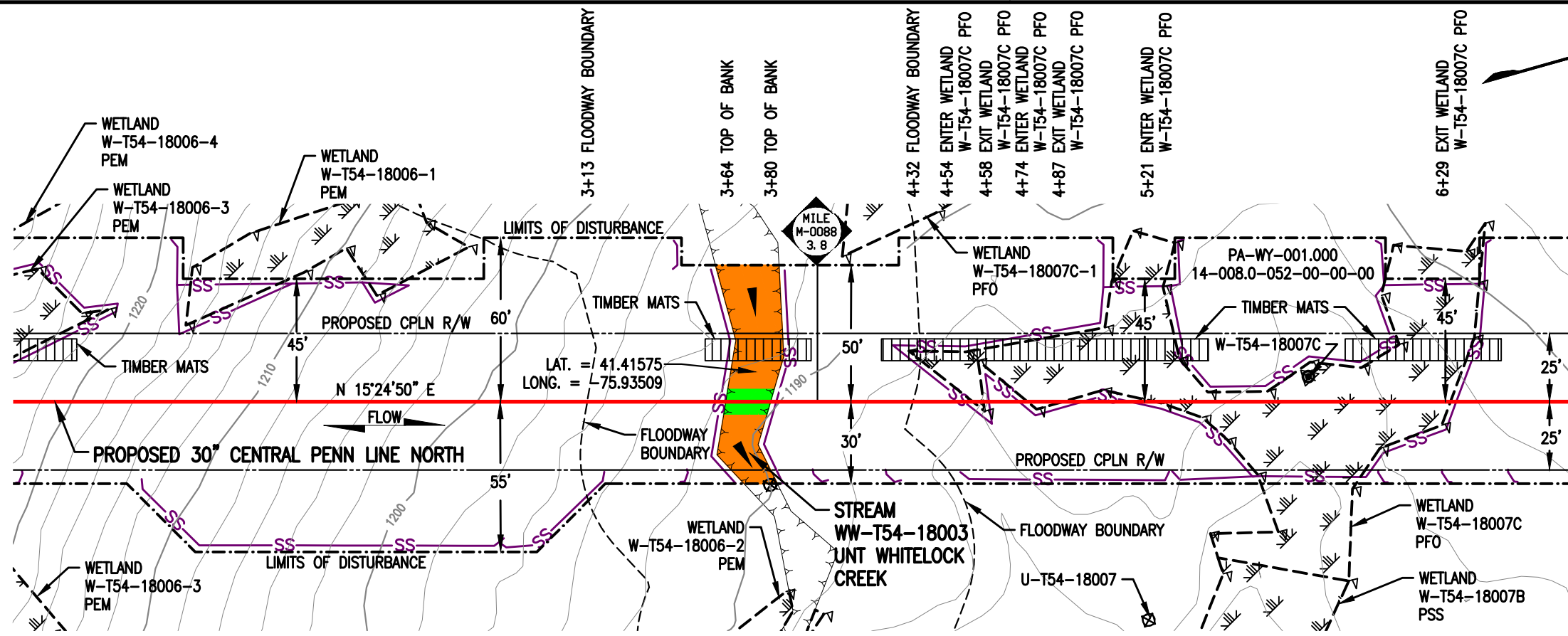
DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	JJB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T54-18006-3 / W-T54-18006-1 &
W-T54-18007C @ M-0088 M.P. 3.73
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: JJB	DATE: 06/27/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 06/27/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/28/16	DRAWING NUMBER: 24-1601-70-20-A/M-0088-3.73-01	SHEET 2
WC: 1161481		8:54am 9/21/2016 l1ro.jal	OF 2



PLAN
 SCALE: 1" = 50'

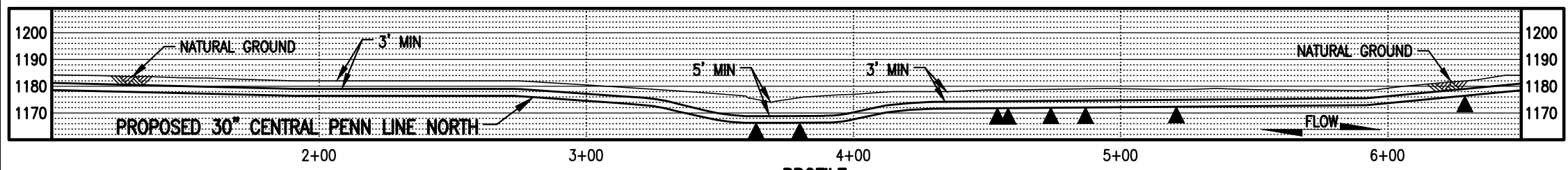
STREAM DISTURBANCE:

STREAM WW-T54-18003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0285
PERMANENT STREAM DISTURBANCE	0.0038
TOTAL STREAM DISTURBANCE	0.0323
TEMPORARY FLOODWAY DISTURBANCE	0.1853
PERMANENT FLOODWAY DISTURBANCE	0.0236
TOTAL FLOODWAY DISTURBANCE	0.2089

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	16.37
STREAM LENGTH	88.89

- GENERAL NOTES:**
1. STREAM CROSSING METHOD FOR WW-T54-18003 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
 2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
 3. STATION 2+00 SHOWN IS EQUAL TO M-0088 STATION 198+67 ON THE EROSION AND SEDIMENT CONTROL PLAN.

- SURVEY NOTES:**
1. T.B.M. BOUNDARY MARKER - 2.9' RT. OF M-0088 M.P. 3.85, ELEV. = 1184.17' (NAVD88).



PROFILE
 SCALE: 1" = 50' HORIZONTAL
 1" = 50' VERTICAL



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

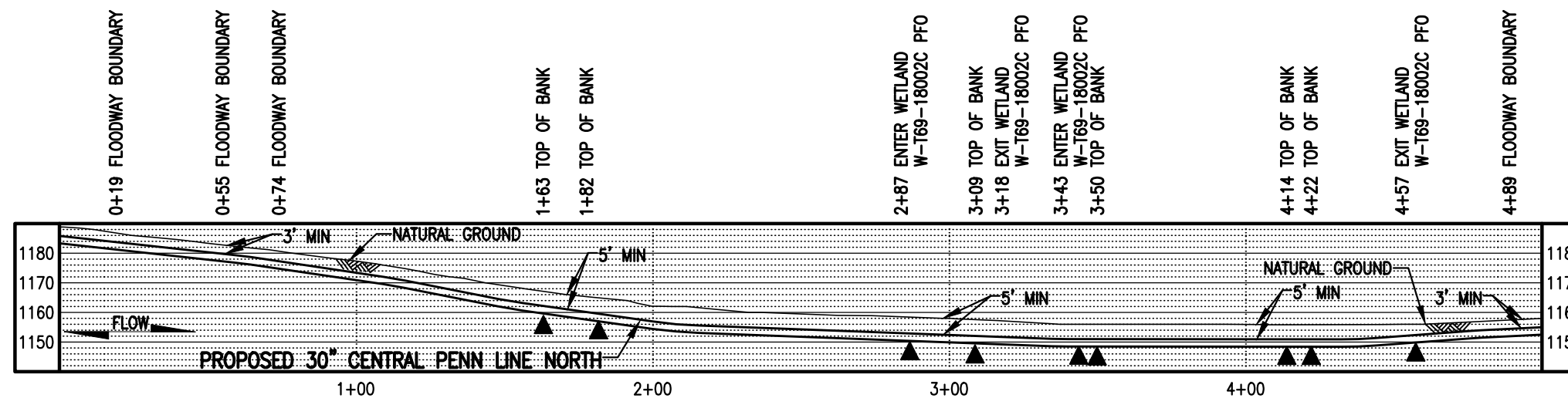
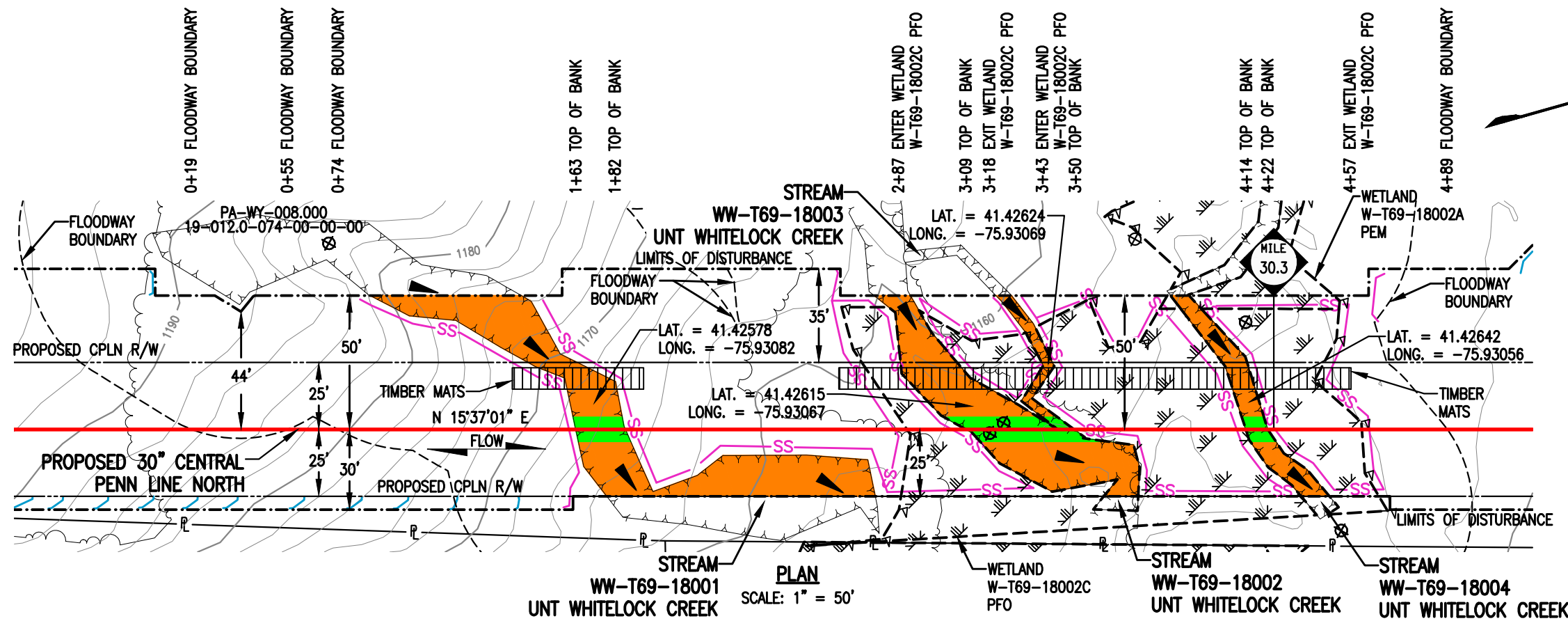
WOOD GROUP MUSTANG, INC.

SS 12" SEDIMENT BARRIER
 SS 18" SEDIMENT BARRIER
 SS 24" SEDIMENT BARRIER
 SS 32" SEDIMENT BARRIER
 Y Y Y Y Y TOP OF BANK

DRAWING NO. REFERENCE TITLE

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T54-18003
● M-0088 M.P. 3.80
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

NO. DATE BY REVISION DESCRIPTION W.O. NO. CHK. APP. DRAWN BY: JN DATE: 05/20/16 ISSUED FOR BID: SCALE: 1" = 50'
 0 10/13/16 DG ISSUED FOR PADEP SUBMITTAL #2 1161481 CLR MJH CHECKED BY: MRL DATE: 05/27/16 ISSUED FOR CONSTRUCTION: REVISION: 0
 APPROVED BY: MJH DATE: 06/03/16 DRAWING NUMBER: 24-1601-70-09-A/M-0088-3.80-01 SHEET 1
 W.O. NO. 1161481 1:34pm 9/20/2016 e!escob K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_M-0088-3.80-01.dwg OF 1



LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P - PROPERTY LINE
- - - FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P - EXISTING POWER LINE
- X - EXISTING FENCE
- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☼ WELL POINT
- ▲ TRENCH PLUG
- ▲ WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY
- SS 12" SEDIMENT BARRIER
- SS 18" SEDIMENT BARRIER
- SS 24" SEDIMENT BARRIER
- SS 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T69-18001 @ M.P. 30.25, WW-T69-18002 @ M.P. 30.27
WW-T69-18003 @ M.P. 30.28 & WW-T69-18004 @ M.P. 30.29
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: TL	DATE: 06/16/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-09-A/30.25-01	SHEET 1
W.O. NO.: 1161481	10/19/2016	8:44am	OF 2

STREAM DISTURBANCE:

STREAM WW-T69-18001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0605
PERMANENT STREAM DISTURBANCE	0.0043
TOTAL STREAM DISTURBANCE	0.0648
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	18.57
STREAM LENGTH	181.60

STREAM WW-T69-18003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0048
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0060
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	6.16
STREAM LENGTH	91.78

STREAM WW-T69-18002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0401
PERMANENT STREAM DISTURBANCE	0.0084
TOTAL STREAM DISTURBANCE	0.0485
TEMPORARY FLOODWAY DISTURBANCE	0.4303
PERMANENT FLOODWAY DISTURBANCE	0.0590
TOTAL FLOODWAY DISTURBANCE	0.4893

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	34.29
STREAM LENGTH	125.77

STREAM WW-T69-18004	ACRE
TEMPORARY STREAM DISTURBANCE	0.0140
PERMANENT STREAM DISTURBANCE	0.0020
TOTAL STREAM DISTURBANCE	0.0160
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	8.23
STREAM LENGTH	92.19

GENERAL NOTES:

1. STREAM CROSSING FOR ALL STREAMS, THE METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. ALL FLOODWAY DISTURBANCE LISTED UNDER STREAM WW-T69-18002 ARE ASSOCIATED WITH STREAMS WW-T69-18001, WW-T69-18003, WW-T69-18004.
3. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FORM THE PHYSICAL TOP OF OF THE WATERBODY.
4. STATION 1+00 SHOWN IS EQUAL TO STATION 1599+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 63.57' RT. OF M.P. 30.26, ELEV. = 1157.33' (NAVD88).

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		

**WOOD GROUP
MUSTANG, INC.**

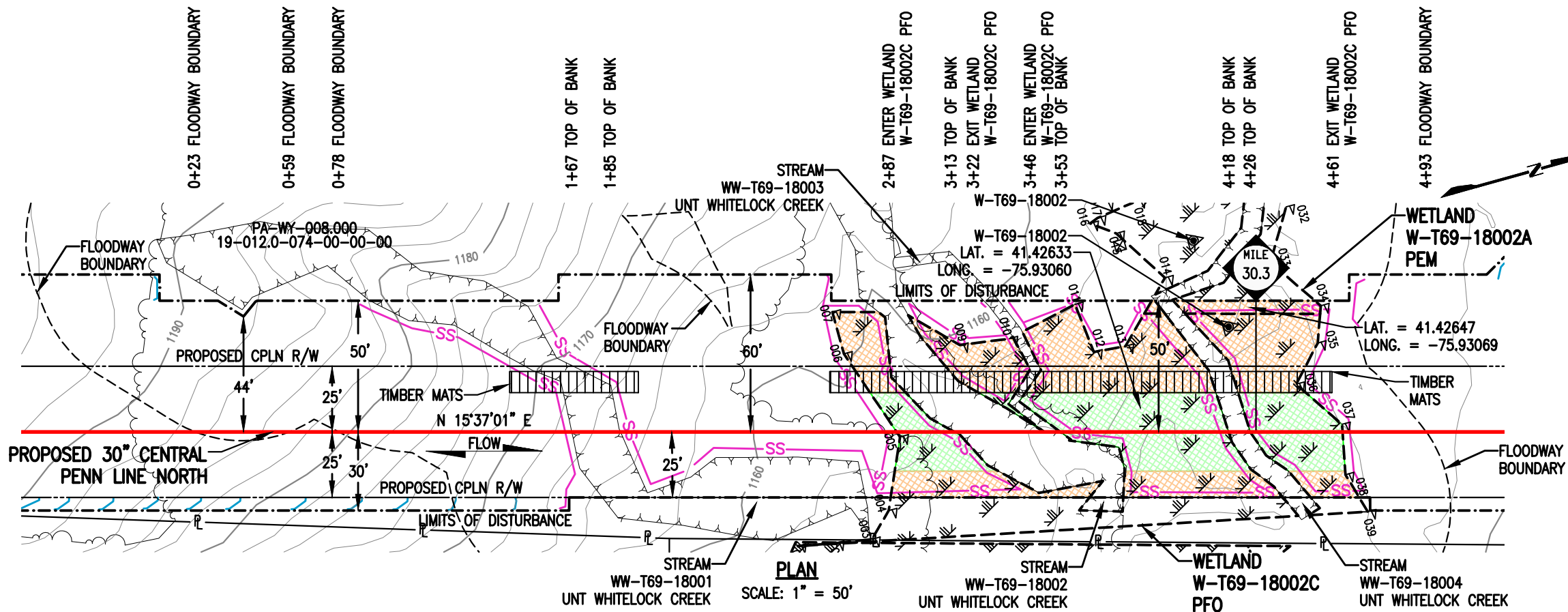
	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK
	PERMANENT STREAM IMPACT
	TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/13/16	TL	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT

PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T69-18001 @ M.P. 30.25, WW-T69-18002 @ M.P. 30.27
WW-T69-18003 @ M.P. 30.28 & WW-T69-18004 @ M.P. 30.29
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

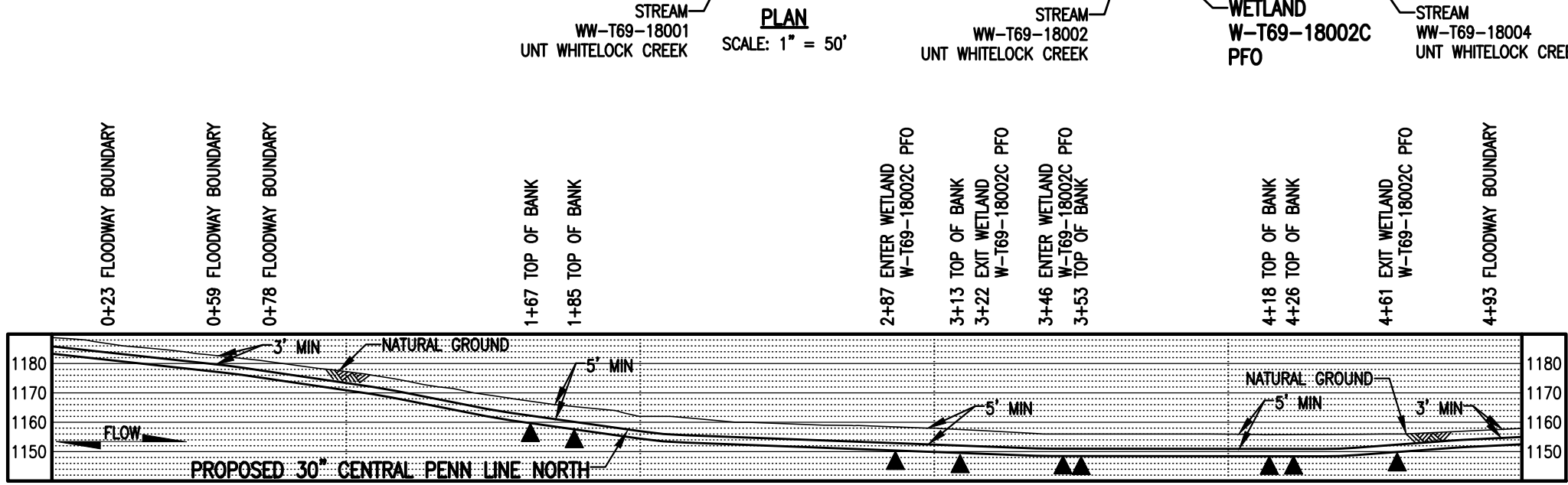
DRAWN BY: TL	DATE: 06/16/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-09-A/30.25-01	SHEET 2
WO: 1161481		8:46am 10/19/2016 tlcurl	OF 2



WETLAND DISTURBANCE:

WETLAND W-T69-18002C (EV)	ACRE
TEMPORARY DISTURBANCE	0.1176
PERMANENT DISTURBANCE	0.0805
TOTAL DISTURBANCE	0.1981

WETLAND W-T69-18002A (EV)	ACRE
TEMPORARY DISTURBANCE	0.0066
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0066



- NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 1+00 SHOWN IS EQUAL TO STATION 1599+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.
- SURVEY NOTES:**
- T.B.M. SURVEY CONTROL POINT - 63.57' RT. OF M.P. 30.26, ELEV. = 1157.33' (NAVD88).



LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	12" SEDIMENT BARRIER
EXISTING PIPELINES	PHOTO DATA POINT	18" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	24" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	32" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	TOP OF BANK
PROPERTY LINE	TRENCH PLUG	PERMANENT WETLAND IMPACT
FOREIGN PIPELINE	WATERBODY	TEMPORARY WETLAND IMPACT
WETLAND AREA	TREE LINE	
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

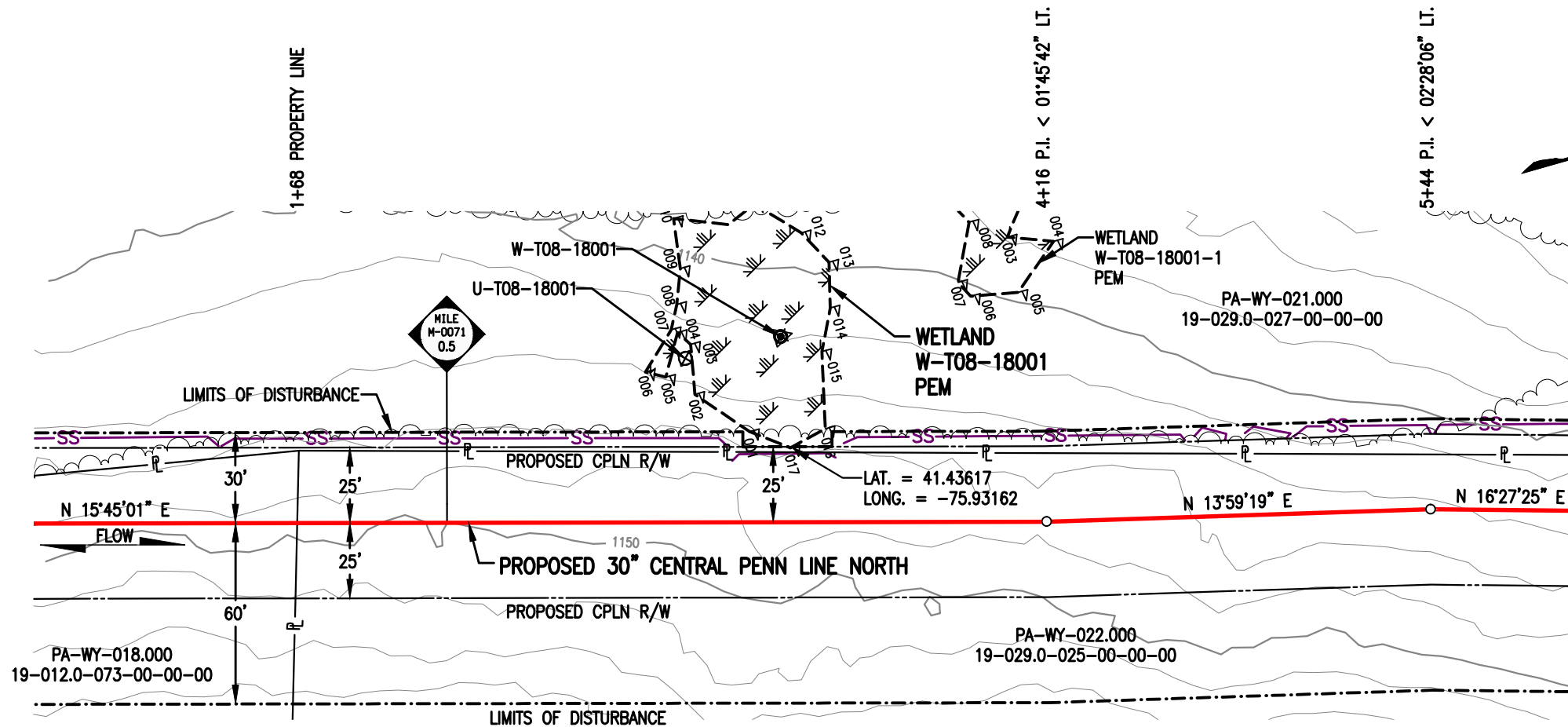


NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

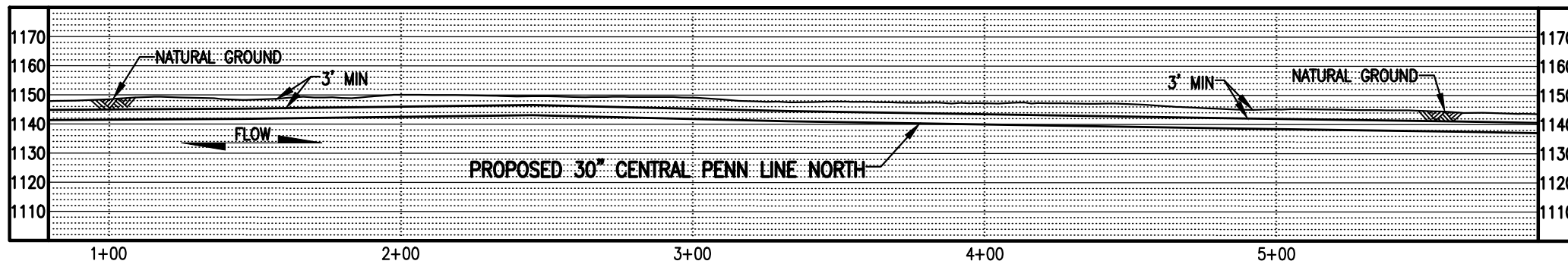
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T69-18002C @ M.P. 30.29
& W-T69-18002A @ M.P. 30.30
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: MF	DATE: 06/16/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-20-A/30.25-01	SHEET 1
W.O. NO.: 1161481		10/18/2016	OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

WETLAND DISTURBANCE:

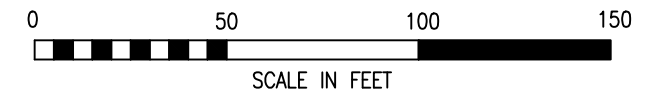
WETLAND W-T08-18001	ACRE
TEMPORARY DISTURBANCE	<0.0001
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	<0.0001

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0071 STATION 25+22 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

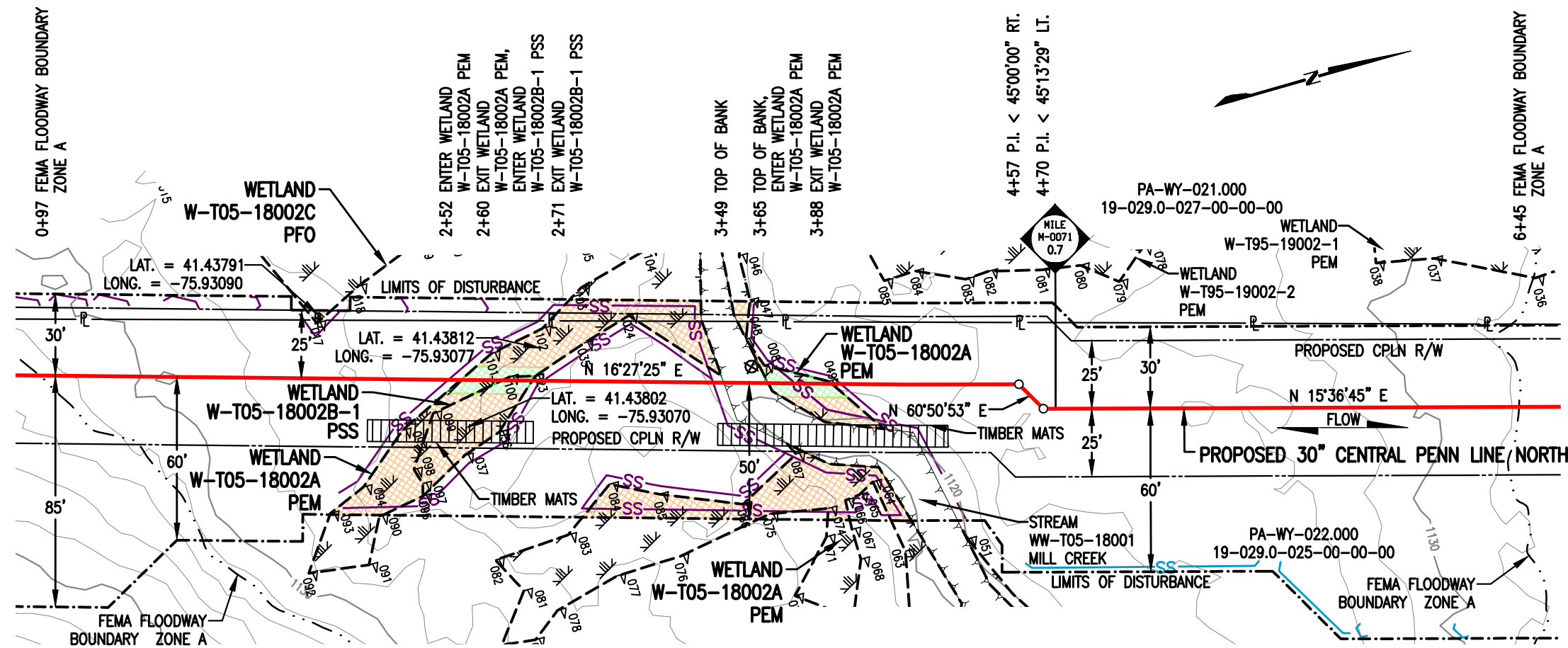
- T.B.M. SURVEY CONTROL POINT - 52' RT. OF M.P. 31.23, ELEV. = 1123.77' (NAVD88).



LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	PERMANENT WETLAND IMPACT
EXISTING TGPL R/W	WETLAND DATA POINT	TEMPORARY WETLAND IMPACT
LIMITS OF DISTURBANCE	UPLAND DATA POINT	12" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	18" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	24" SEDIMENT BARRIER
FOREIGN PIPELINE	WATERBODY	32" SEDIMENT BARRIER
WETLAND AREA	TREE LINE	TOP OF BANK
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND W-T08-18001 © M-0071 M.P. 0.52 NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/M-0071-0.52-01	SHEET 1
W.O. NUMBER: 1161481		DATE: 9/21/2016		DRAWN BY: ltrc.jal		DATE: 11/03/2016		FILE: K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_M-0071-0.52-01.dwg		OF 1



WETLAND DISTURBANCE:

WETLAND W-T05-18002A (EV)	ACRE
TEMPORARY DISTURBANCE	0.0757
PERMANENT DISTURBANCE	0.0089
TOTAL DISTURBANCE	0.0846

WETLAND W-T05-18002B-1 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0156
PERMANENT DISTURBANCE	0.0020
TOTAL DISTURBANCE	0.0176

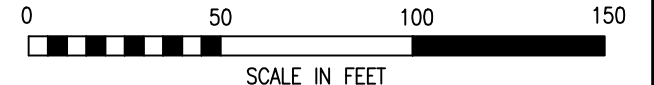
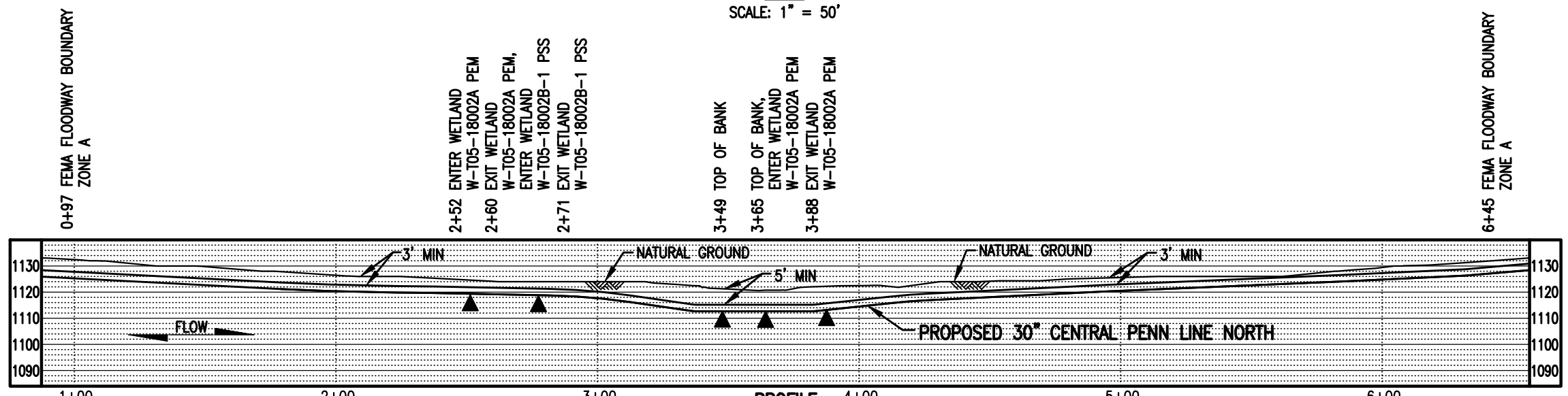
WETLAND W-T05-18002C (EV)	ACRE
TEMPORARY DISTURBANCE	0.0005
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0005

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0071 STATION 33+22 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 53' LT. OF M-0071 M.P. 0.67, ELEV. = 1123.77' (NAVD88).

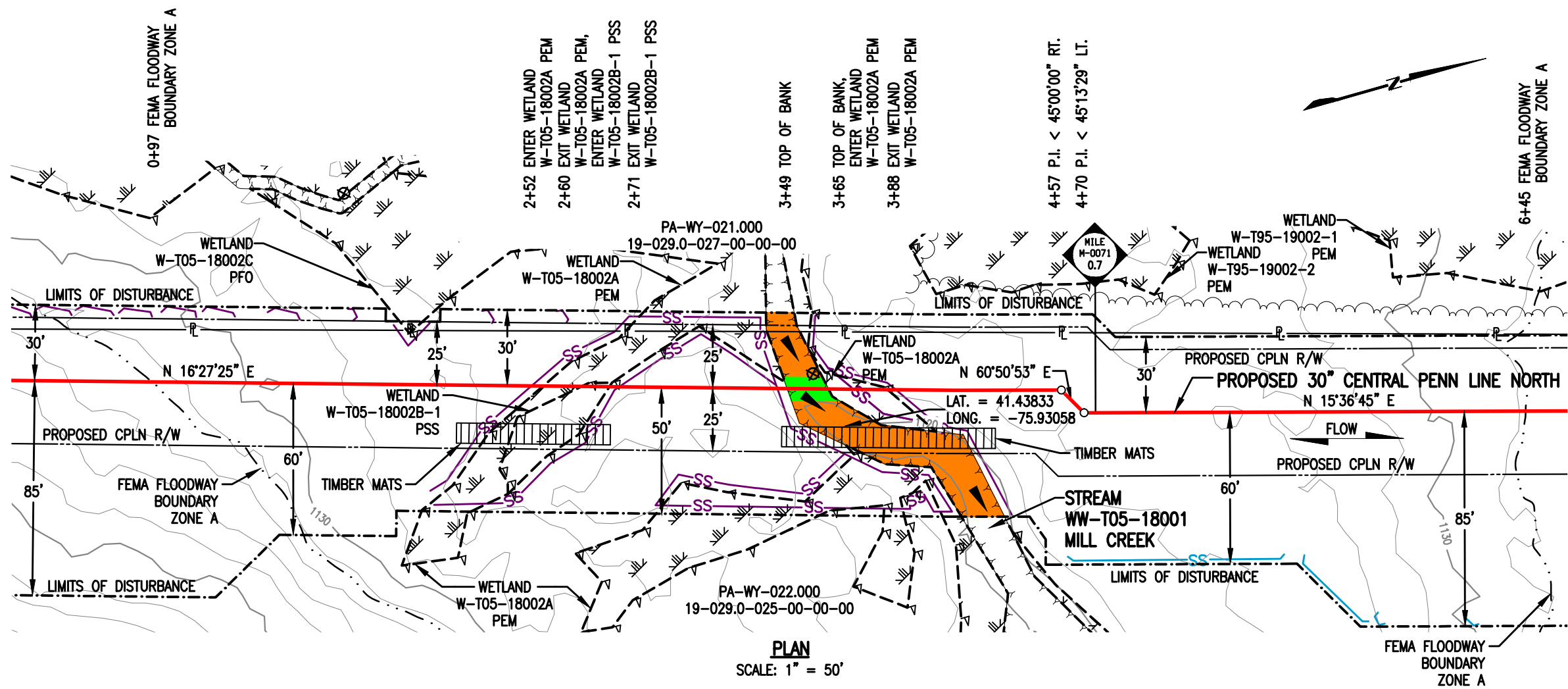


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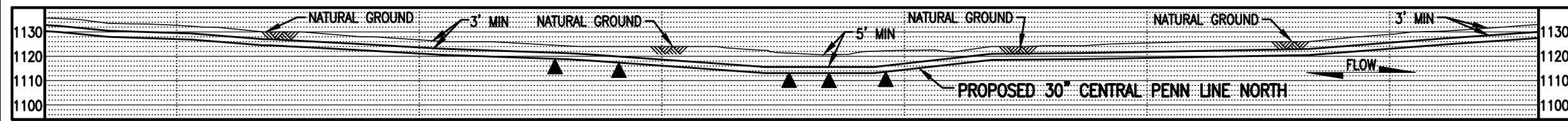
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS	
	EXISTING PIPELINES		PHOTO DATA POINT	
	EXISTING TGPL R/W		WETLAND DATA POINT	
	LIMITS OF DISTURBANCE		UPLAND DATA POINT	
	PROPOSED CPLN R/W		WELL POINT	
	PROPERTY LINE		TRENCH PLUG	
	FOREIGN PIPELINE		WATERBODY	
	WETLAND AREA		TREE LINE	
	EXISTING POWER LINE		FLOODWAY BOUNDARY	
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY	

	12" SEDIMENT BARRIER		PERMANENT WETLAND IMPACT
	18" SEDIMENT BARRIER		TEMPORARY WETLAND IMPACT
	24" SEDIMENT BARRIER		
	32" SEDIMENT BARRIER		
	TOP OF BANK		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSINGS W-T05-18002A @ M-0071 M.P. 0.67, W-T05-18002B-1 @ M-0071 M.P. 0.66 & W-T05-18002C @ M-0071 M.P. 0.65 NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/M-0071-0.66-01	SHEET 1
				1161481		10/18/2016		djkudil		OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T05-18001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0383
PERMANENT STREAM DISTURBANCE	0.0038
TOTAL STREAM DISTURBANCE	0.0421
TEMPORARY FLOODWAY DISTURBANCE	0.8285
PERMANENT FLOODWAY DISTURBANCE	0.1110
TOTAL FLOODWAY DISTURBANCE	0.9395

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	16.34
STREAM LENGTH	118.60

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 1+00 IS EQUAL TO STATION M-0071 33+22 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 53' LT. OF M-0071 M.P. 0.67, ELEV. = 1123.77' (NAVD88).

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

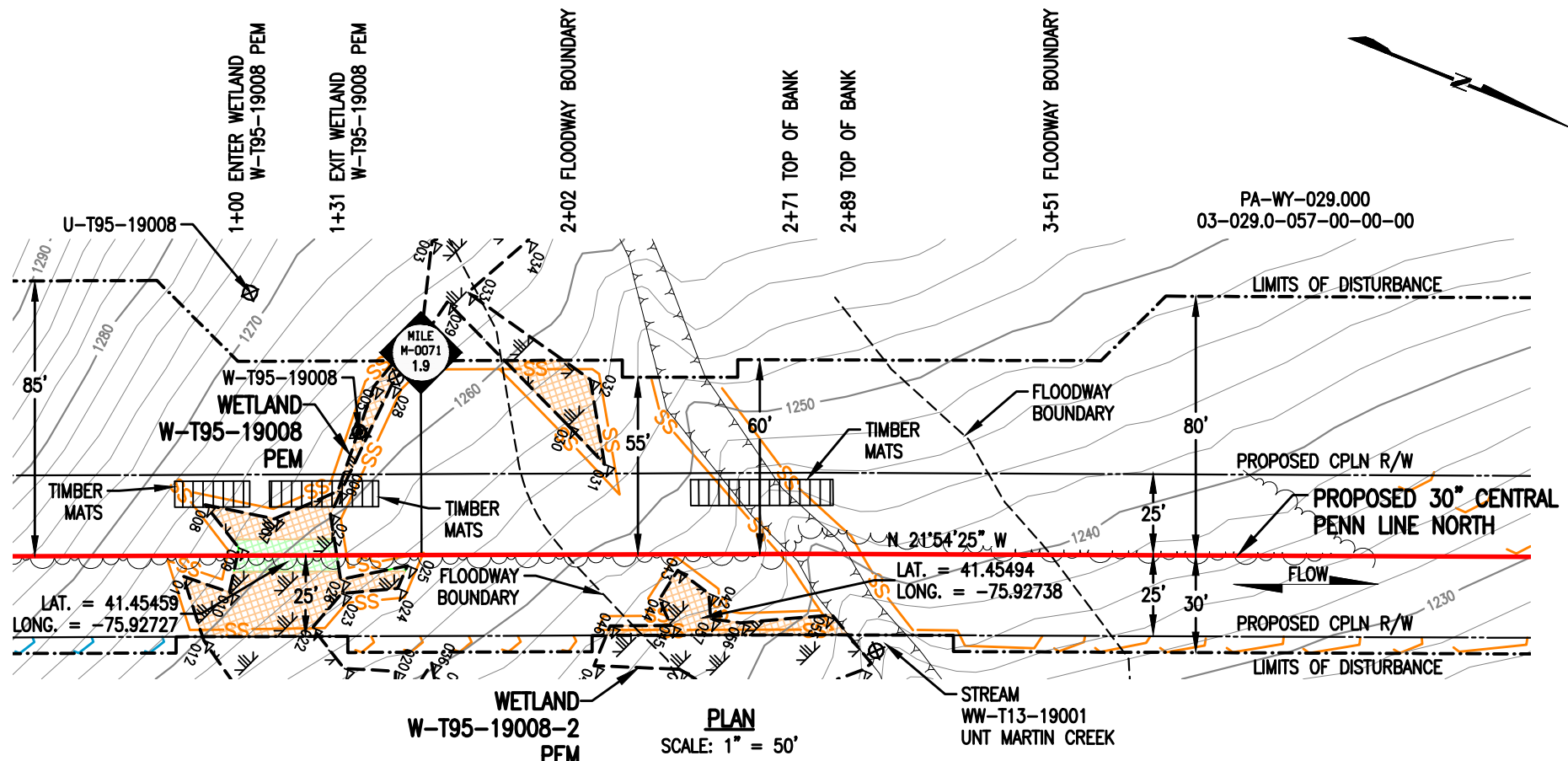
WOOD GROUP MUSTANG, INC.

SS 12" SEDIMENT BARRIER
SS 18" SEDIMENT BARRIER
SS 24" SEDIMENT BARRIER
SS 32" SEDIMENT BARRIER
TOP OF BANK

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T05-18001
M-0071 M.P. 0.68
NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

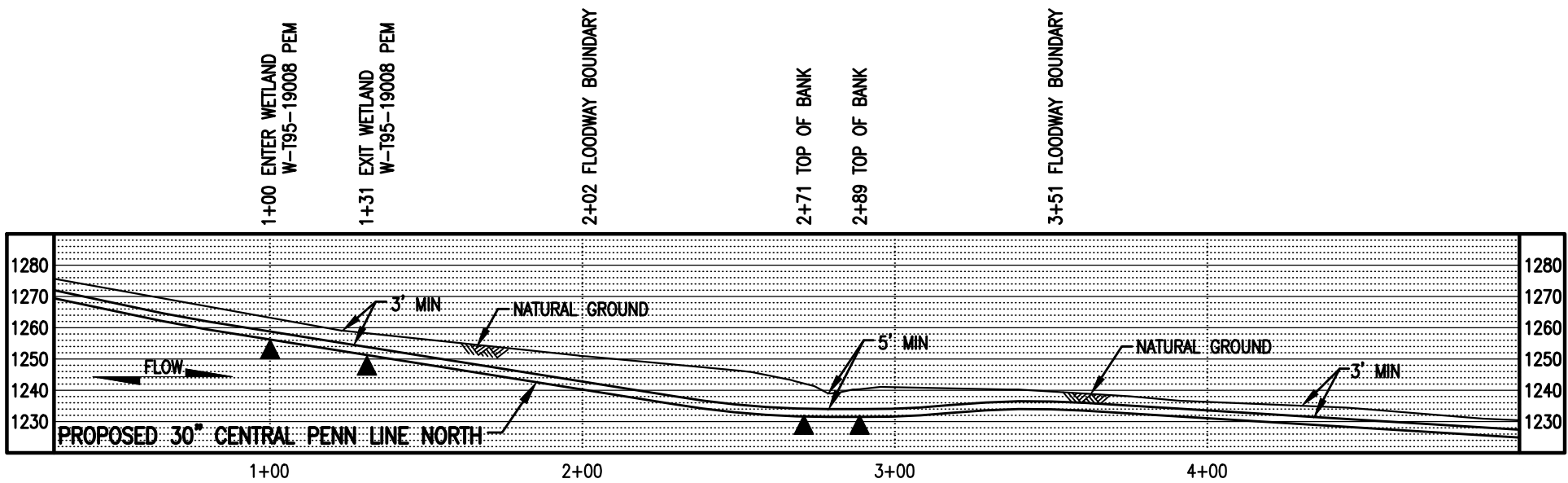
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DRAWING NO.	REFERENCE TITLE	NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	LL	DATE:	03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
		0	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	CHECKED BY:	ML	DATE:	04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
		1	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY:	MJH	DATE:	04/17/15	DRAWING NUMBER:	24-1601-70-09-A/M-0071-0.68-01 SHEET 1
									WC:	1161481			8:55am 10/19/2016 t1curll K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_M-0071-0.68-01.dwg	OF 1



WETLAND DISTURBANCE:

WETLAND W-T95-19008 / W-T95-19008-2	ACRE
TEMPORARY DISTURBANCE	0.0508
PERMANENT DISTURBANCE	0.0073
TOTAL DISTURBANCE	0.0581



NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0071 STATION 99+75 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

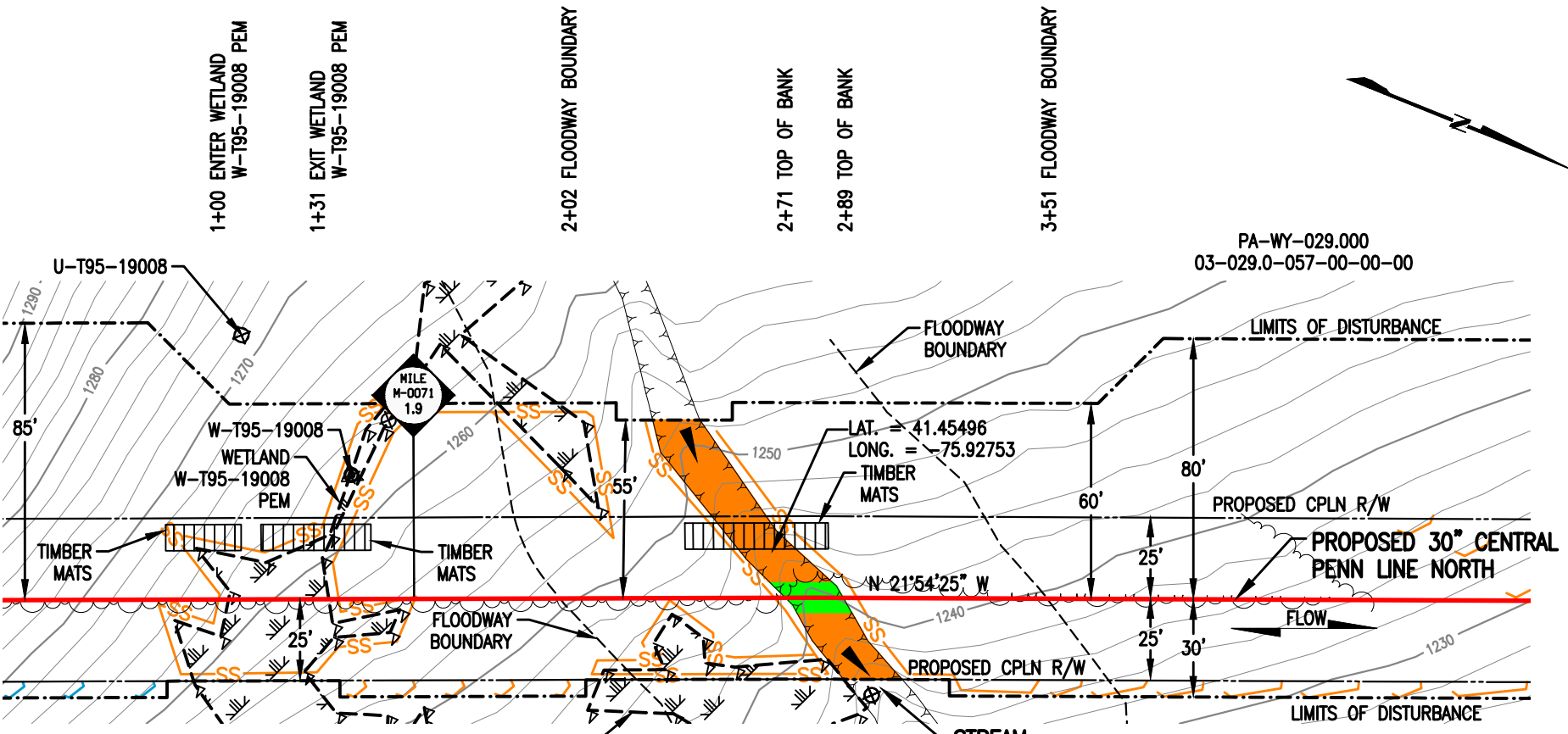
- T.B.M. SURVEY CONTROL POINT - 27' RT. OF M-0071 M.P. 1.92, ELEV. = 1239.43' (NAVD88).



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT WETLAND IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY WETLAND IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		12" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		18" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		24" SEDIMENT BARRIER
	FOREIGN PIPELINE		WATERBODY		32" SEDIMENT BARRIER
	WETLAND AREA		TREE LINE		TOP OF BANK
	EXISTING POWER LINE		FLOODWAY BOUNDARY		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC						
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS						
				ATLANTIC SUNRISE PROJECT						
				PROPOSED 30" CENTRAL PENN LINE NORTH						
				WETLAND CROSSING W-T95-19008 / W-T95-19008-2						
				@ M-0071 M.P. 1.89						
				NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: CL	DATE: 07/08/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	CHECKED BY: ML	DATE: 07/24/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 07/24/15	DRAWING NUMBER: 24-1601-70-20-A/M-0071-1.89-01	SHEET 1
				9:33am 10/18/2016 djkudli		WC: 1161481		K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_M-0071-1.89-01.dwg		OF 1



PLAN
SCALE: 1" = 50'

STREAM
WW-T13-19001
UNT MARTIN CREEK

STREAM DISTURBANCE:

STREAM WW-T13-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0278
PERMANENT STREAM DISTURBANCE	0.0041
TOTAL STREAM DISTURBANCE	0.0319
TEMPORARY FLOODWAY DISTURBANCE	0.1957
PERMANENT FLOODWAY DISTURBANCE	0.0302
TOTAL FLOODWAY DISTURBANCE	0.2259

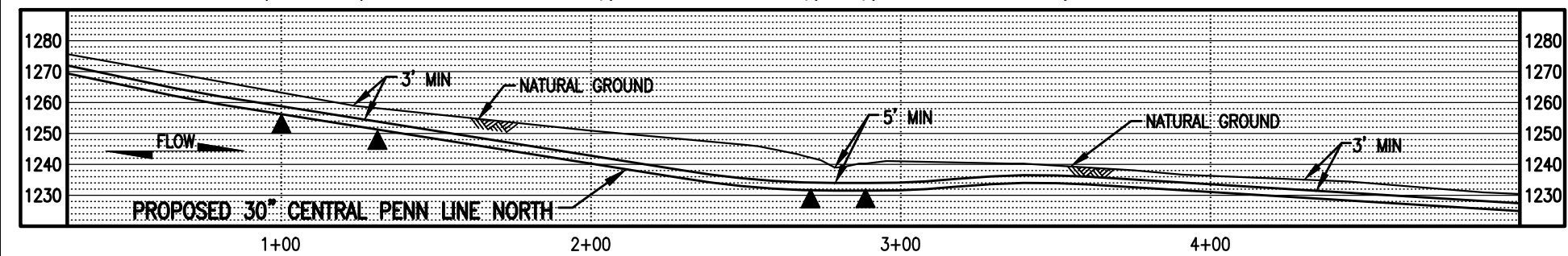
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	17.73
STREAM LENGTH	102.05

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO M-0071 STATION 99+75 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 27' RT. OF M-0071 M.P. 1.92, ELEV. = 1239.43' (NAVD88).



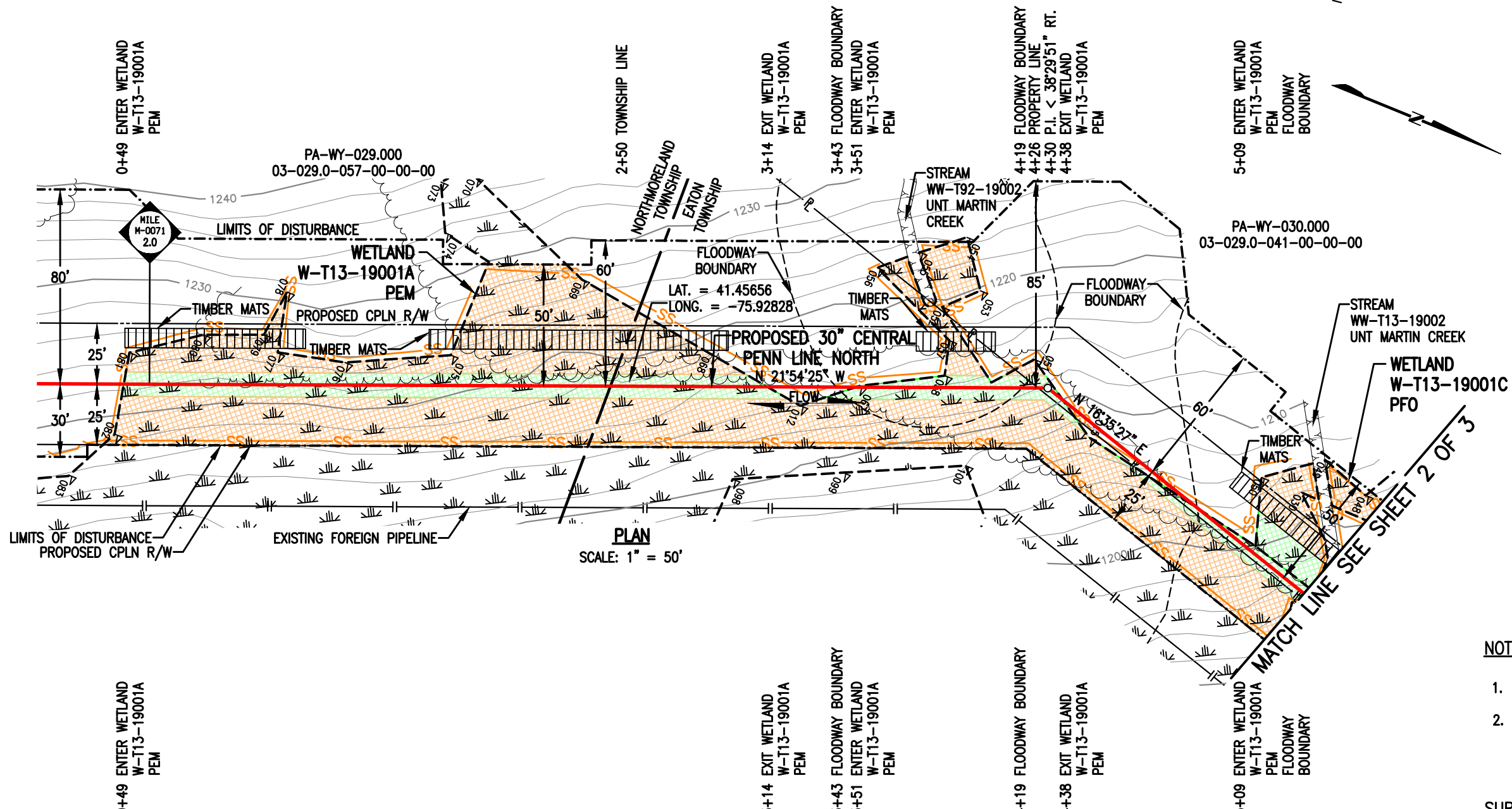
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T13-19001 M-0071 M.P. 1.92 NORTHMORELAND TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/M-0071-1.92-01	SHEET 1
				DRAWING NUMBER: 24-1601-70-09-A/M-0071-1.92-01 9:17am 10/19/2016 tcurli K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_M-0071-1.92-01.dwg						OF 1



WETLAND DISTURBANCE:

WETLAND W-T13-19001 A/ W-T13-19001A-1	ACRE
TEMPORARY DISTURBANCE	0.9275
PERMANENT DISTURBANCE	0.1725
TOTAL DISTURBANCE	1.1000

WETLAND W-T13-19001C	ACRE
TEMPORARY DISTURBANCE	0.0871
PERMANENT DISTURBANCE	0.0157
TOTAL DISTURBANCE	0.1028

PLAN
SCALE: 1" = 50'

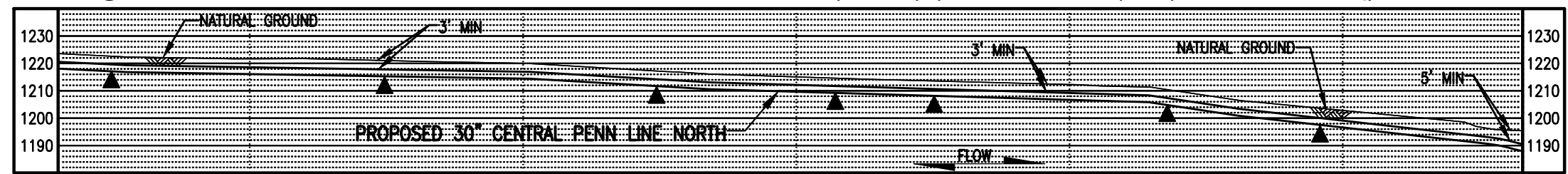
MATCH LINE SEE SHEET 2 OF 3

NOTES:

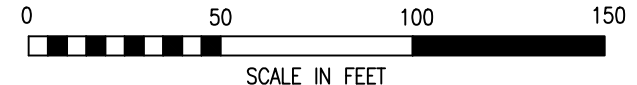
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0071 STATION 106+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 58' RT. OF M-0071 M.P. 2.07, ELEV. = 1023.39' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- ▨ WETLAND AREA
- P — EXISTING POWER LINE
- X — EXISTING FENCE

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊗ WETLAND DATA POINT
- ⊗ UPLAND DATA POINT
- ⊗ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

WOOD GROUP MUSTANG, INC.

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — TOP OF BANK
- ▨ PERMANENT WETLAND IMPACT
- ▨ TEMPORARY WETLAND IMPACT

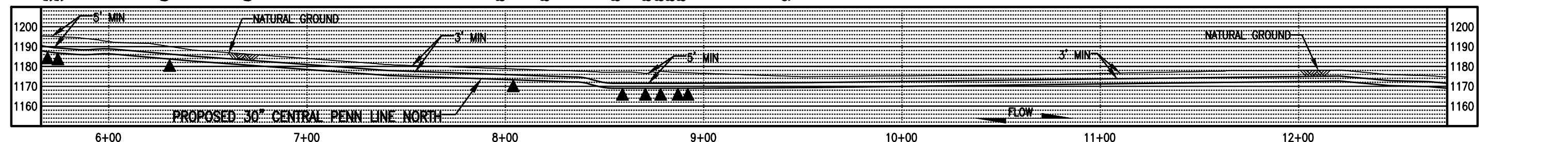
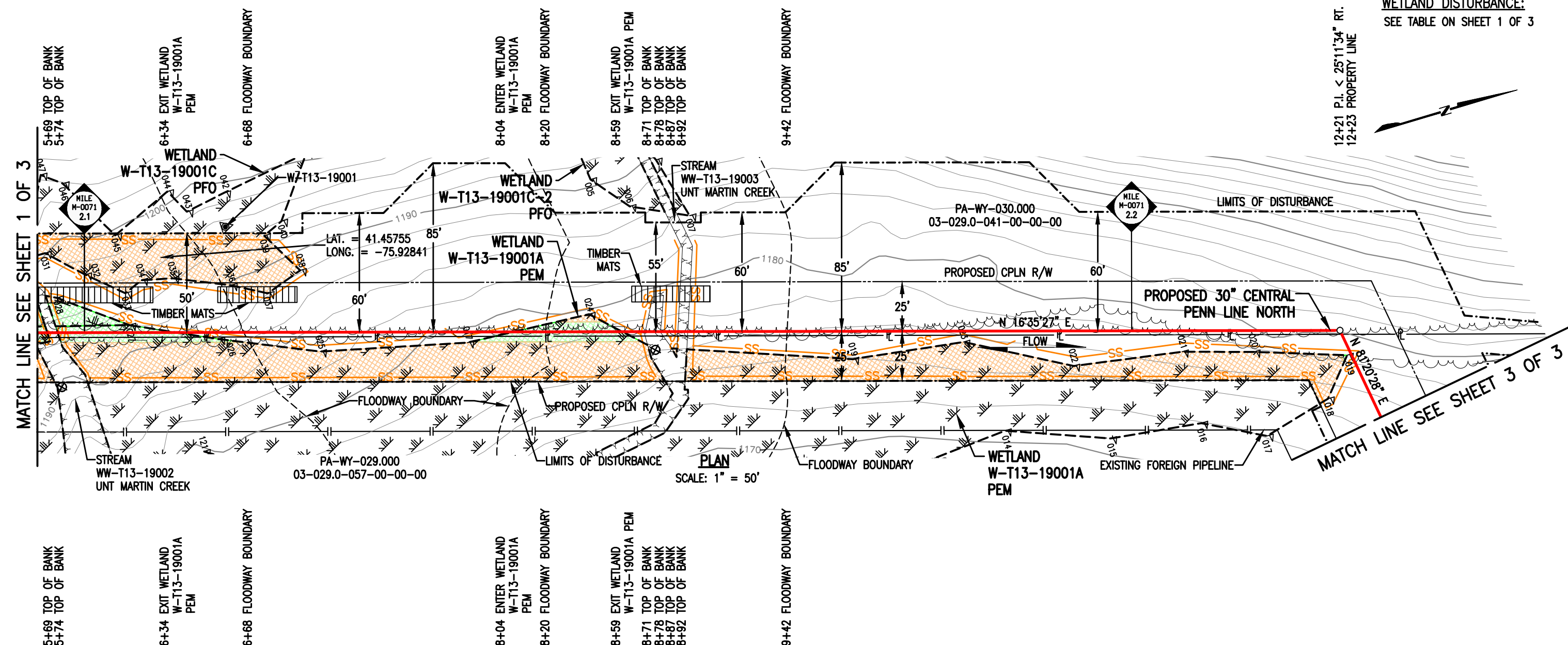
DRAWING NO. _____ REFERENCE TITLE _____

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
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1	10/13/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T13-19001A/W-T13-19001A-1 @ M-0071
M.P. 2.04 & W-T13-19001C @ M-0071 M.P. 2.11
NORTHMORELAND & EATON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: AT DATE: 02/03/16 ISSUED FOR BID: _____ SCALE: 1" = 50'
 CHECKED BY: CLR DATE: 02/03/16 ISSUED FOR CONSTRUCTION: _____ REVISION: 1
 APPROVED BY: MJH DATE: 02/03/16 DRAWING NUMBER: **24-1601-70-20-A/M-0071-1.99-01** SHEET 1
 WO: 1161481 10/18/2016 djkudll OF 3

WETLAND DISTURBANCE:
SEE TABLE ON SHEET 1 OF 3



PROFILE

SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- LIMITS OF DISTURBANCE
- PROPOSED CPLN R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- EXISTING POWER LINE
- EXISTING FENCE
- WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- WELL POINT
- TRENCH PLUG
- WATERBODY
- TREE LINE
- FLOODWAY BOUNDARY
- FEMA FLOODWAY BOUNDARY
- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT



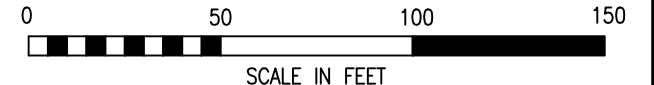
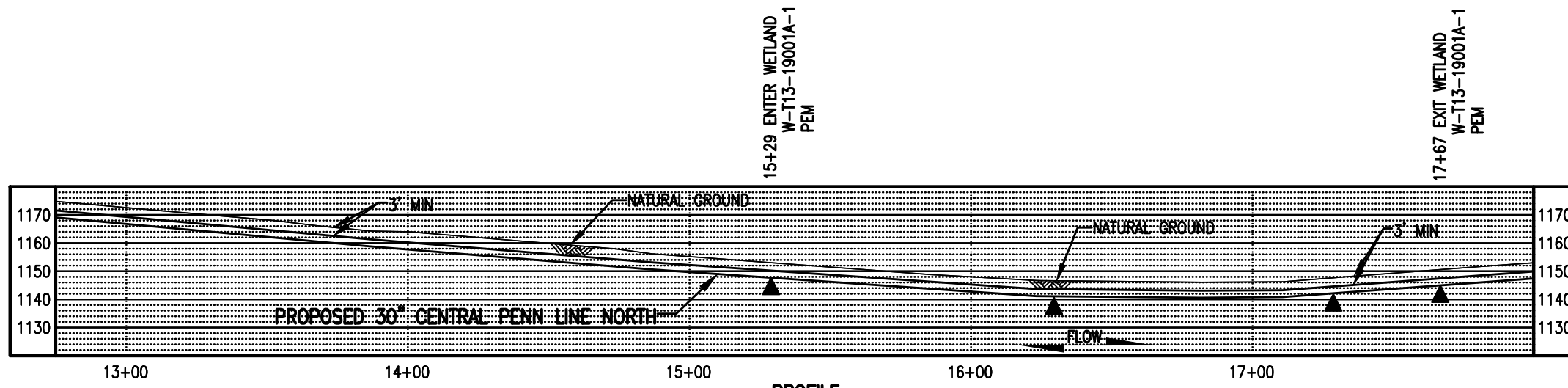
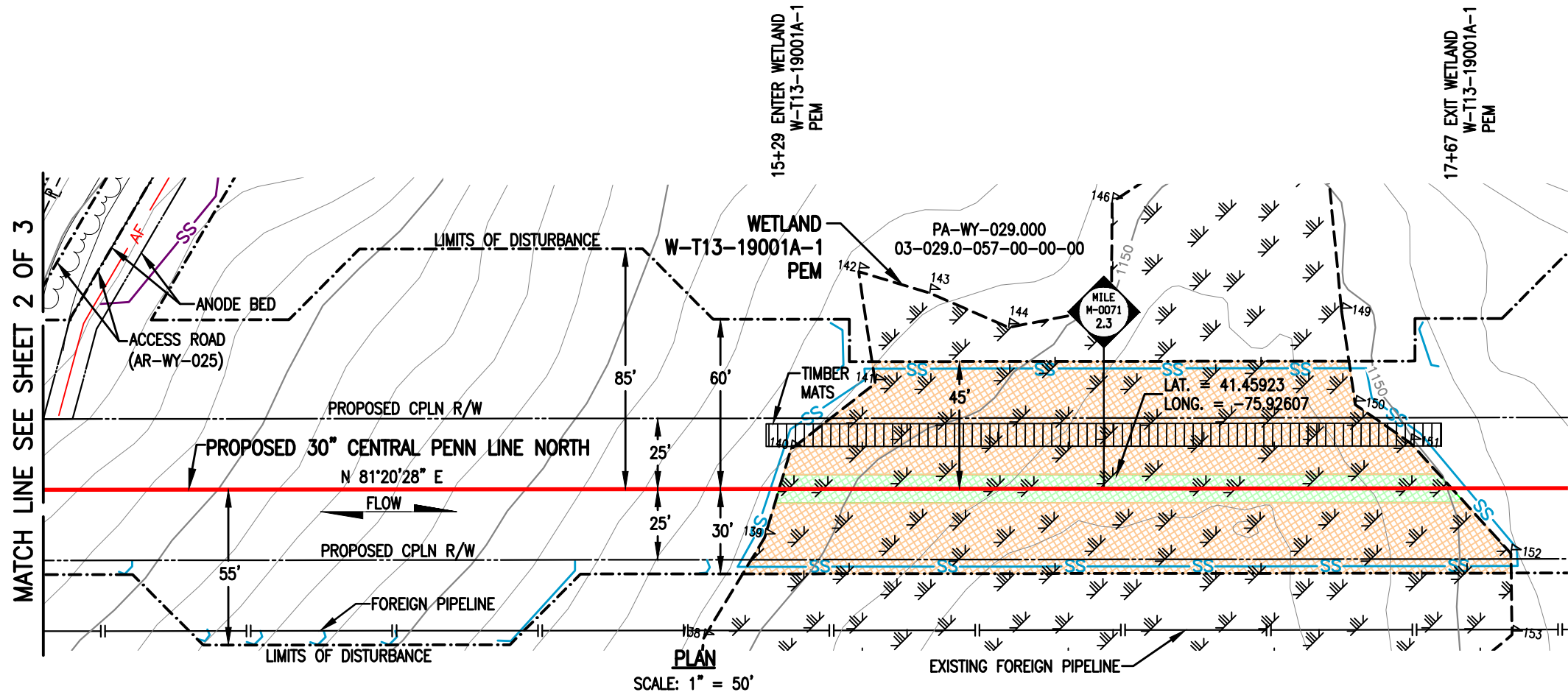
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1	10/13/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T13-19001A/W-T13-19001A-1 @ M-0071
M.P. 2.04 & W-T13-19001C @ M-0071 M.P. 2.11
NORTHMORELAND & EATON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: AT	DATE: 02/03/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 02/03/16	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 02/03/16	DRAWING NUMBER: 24-1601-70-20-A/M-0071-1.99-01	SHEET 2
WC: 1161481	10/18/2016	12:46pm	OF 3

WETLAND DISTURBANCE:
SEE TABLE ON SHEET 1 OF 3



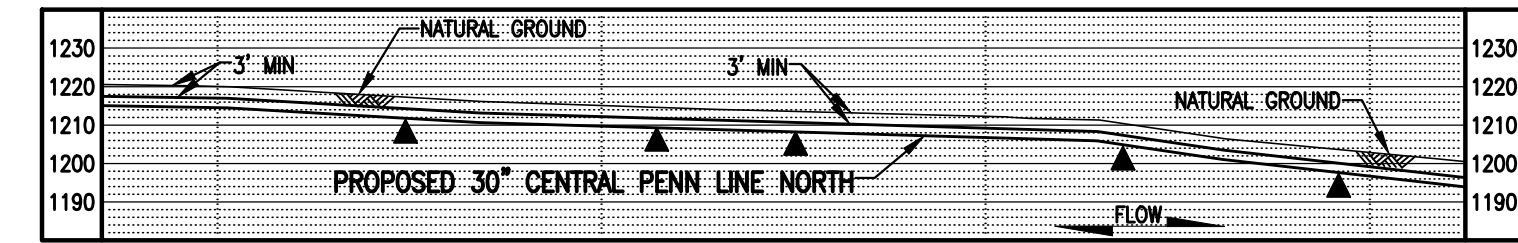
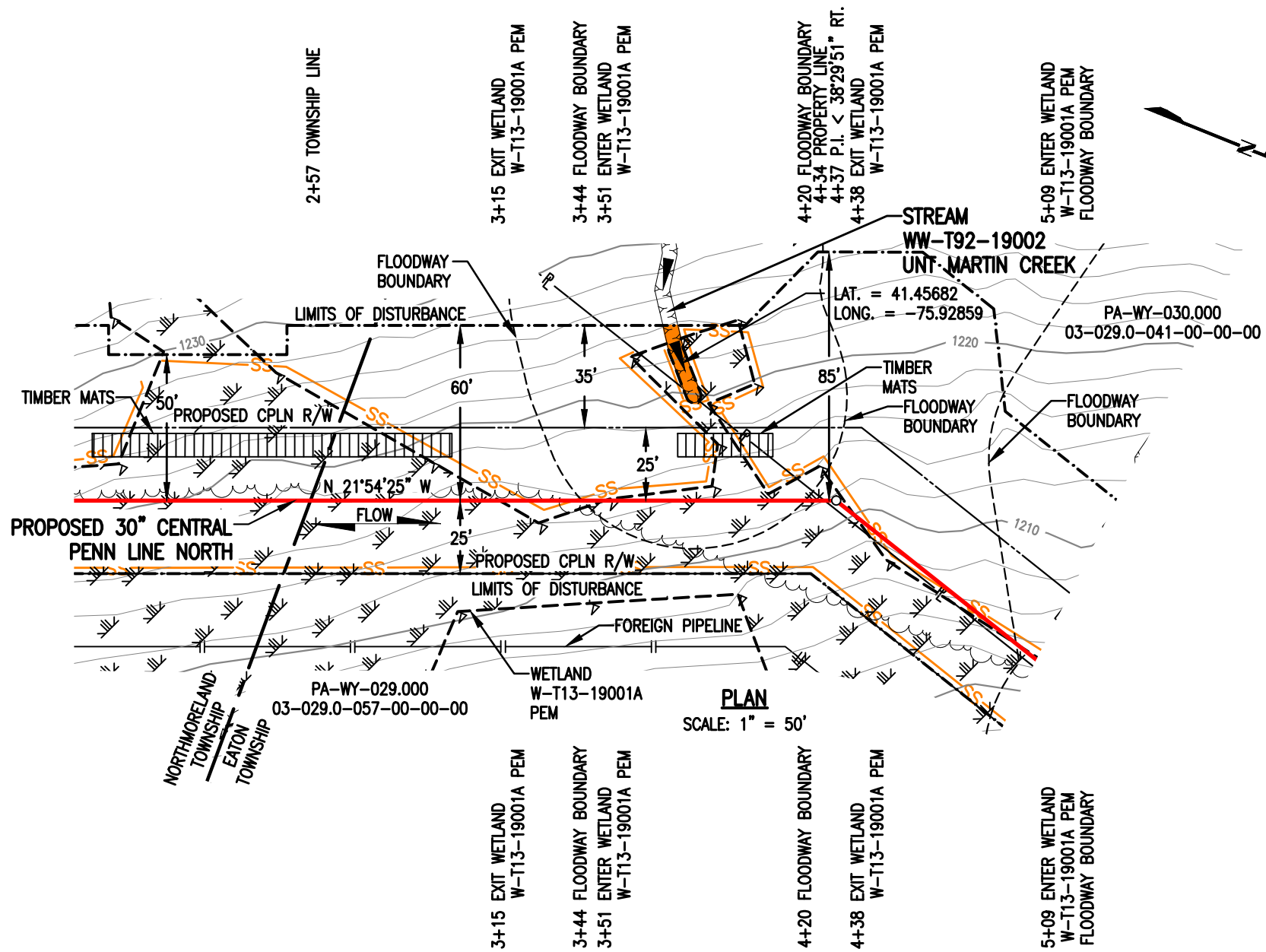
LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	EXISTING POWER LINE		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY
	12" SEDIMENT BARRIER		PERMANENT WETLAND IMPACT
	18" SEDIMENT BARRIER		TEMPORARY WETLAND IMPACT
	24" SEDIMENT BARRIER		
	32" SEDIMENT BARRIER		
	TOP OF BANK		

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	02/03/16	AT	ISSUED FOR INTERNAL USE
1	10/13/16	THL	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T13-19001A/W-T13-19001A-1 @ M-0071
M.P. 2.04 & W-T13-19001C @ M-0071 M.P. 2.11
NORTHMORELAND & EATON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: AT	DATE: 02/03/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 02/03/16	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 02/03/16	DRAWING NUMBER: 24-1601-70-20-A/M-0071-1.99-01	SHEET 3
WC: 1161481		10/18/2016	OF 3



STREAM DISTURBANCE:

STREAM WW-T92-19002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0031
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0031
TEMPORARY FLOODWAY DISTURBANCE	0.1140
PERMANENT FLOODWAY DISTURBANCE	0.0036
TOTAL FLOODWAY DISTURBANCE	0.1176

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.78
STREAM LENGTH	25.37

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE.
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50- FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO M-0071 STATION 107+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 57.46' RT. OF M-0071 M.P. 2.07, ELEV. = 1203.42' (NAVD88).



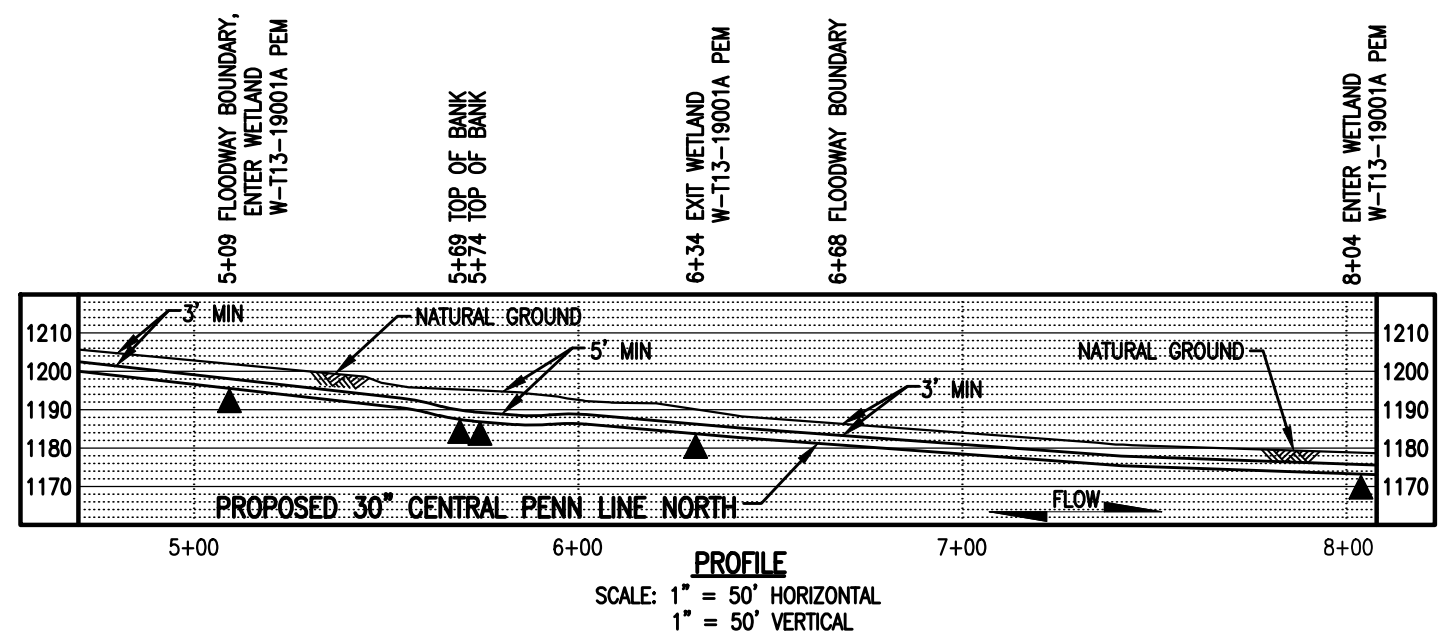
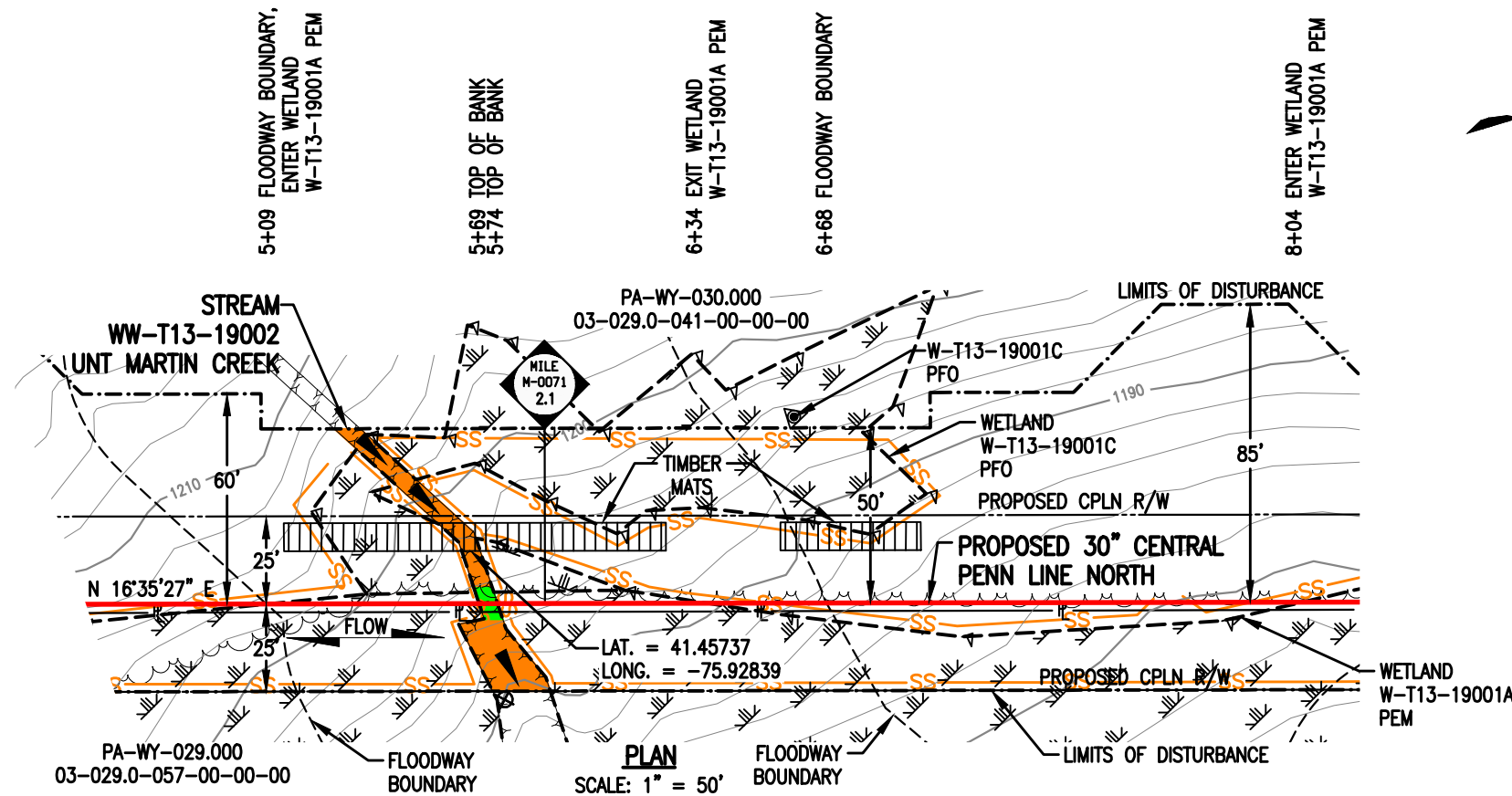
LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY
- SS 12" SEDIMENT BARRIER
- SS 18" SEDIMENT BARRIER
- SS 24" SEDIMENT BARRIER
- SS 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T92-19002 ● M-0071 M.P. 2.06 NORTHMORELAND & EATON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.		DATE			
0	10/13/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
NO.		DATE		DRAWN BY: TL	
0		10/13/16		DATE: 06/16/16	
NO.		DATE		ISSUED FOR CONSTRUCTION:	
0		10/13/16		DATE: 07/06/16	
NO.		DATE		ISSUED FOR BID:	
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NO.		DATE		DRAWING NUMBER:	
0		10/13/16		24-1601-70-09-A/M-0071-2.06-01	
NO.		DATE		SCALE: 1" = 50'	
0		10/13/16		REVISION: 0	
NO.		DATE		SHEET 1	
0		10/13/16		OF 1	



STREAM DISTRIBUTION:

STREAM WW-T13-19002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0138
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0150
TEMPORARY FLOODWAY DISTURBANCE	0.1109
PERMANENT FLOODWAY DISTURBANCE	0.0104
TOTAL FLOODWAY DISTURBANCE	0.1213

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.24
STREAM LENGTH	92.18

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 5+00 IS EQUAL TO M-0071 STATION 110+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 24' RT. OF M-0071 M.P. 2.11, ELEV. = 1185.90' (NAVD88).



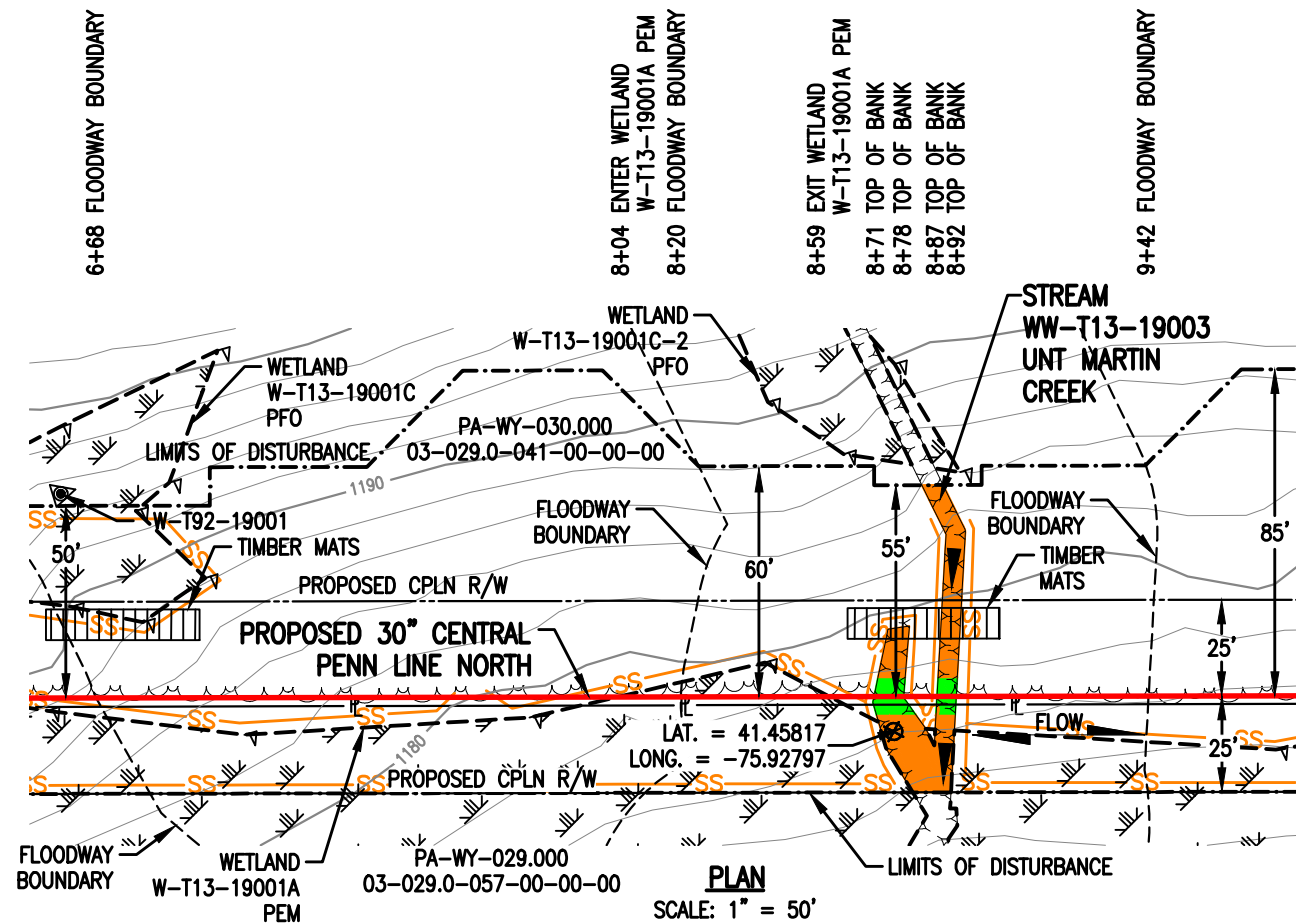
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

SS 12" SEDIMENT BARRIER
SS 18" SEDIMENT BARRIER
SS 24" SEDIMENT BARRIER
SS 32" SEDIMENT BARRIER
Y Y Y Y Y Y Y Y TOP OF BANK

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T13-19002 M-0071 M.P. 2.10 EATON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	02/03/16	AT	ISSUED FOR INTERNAL USE	1161481	CLR MJH
1	10/13/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: AT		DATE: 02/03/16		ISSUED FOR BID:	
CHECKED BY: CLR		DATE: 02/03/16		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 02/03/16		DRAWING NUMBER: 24-1601-70-09-A/M-0071-M.P. 2.09-01	
W.O. NUMBER: 1161481		SCALE: 1" = 50'		SHEET 1 OF 1	



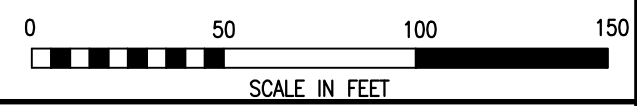
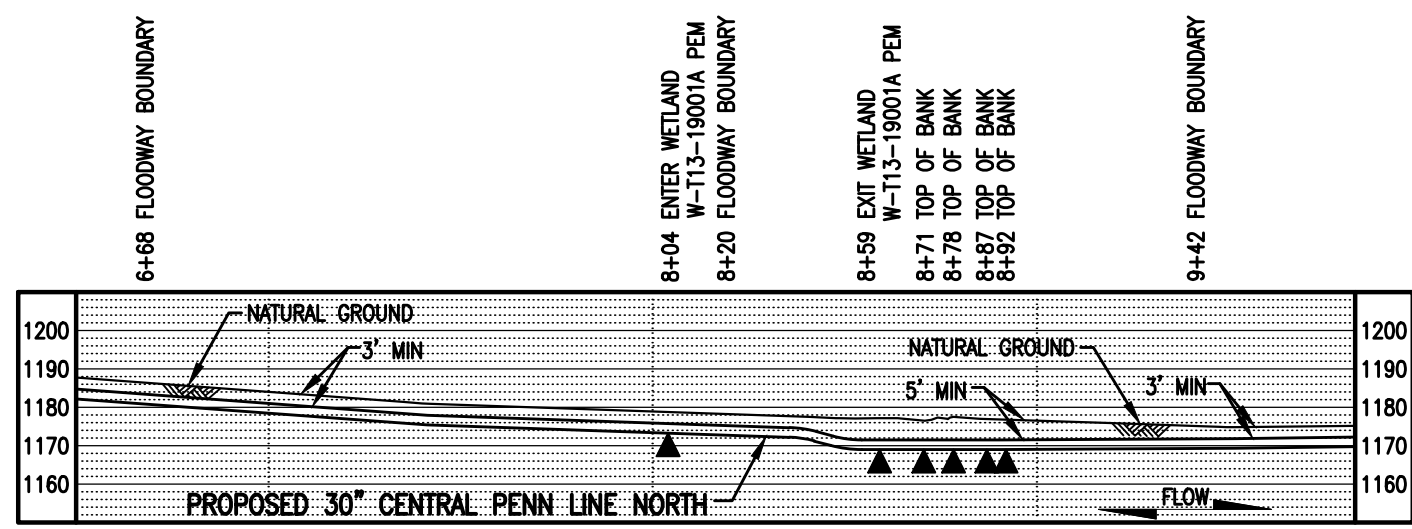
STREAM DISTURBANCE:

STREAM WW-T13-19003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0146
PERMANENT STREAM DISTURBANCE	0.0030
TOTAL STREAM DISTURBANCE	0.0176
TEMPORARY FLOODWAY DISTURBANCE	0.1426
PERMANENT FLOODWAY DISTURBANCE	0.0161
TOTAL FLOODWAY DISTURBANCE	0.1587

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	12.68
STREAM LENGTH	81.49

- GENERAL NOTES:**
1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
 2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
 3. STATION 7+00 SHOWN IS EQUAL TO M-0071 STATION 112+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

- SURVEY NOTES:**
1. T.B.M. SURVEY CONTROL POINT - 57.46' RT. OF M-0071 M.P. 2.07, ELEV. = 1203.42' (NAVD88).



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T13-19003 M-0071 M.P. 2.16 EATON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AT	DATE: 02/03/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	02/03/16	AT	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 02/03/16	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 02/03/16	DRAWING NUMBER: 24-1601-70-09-A/M-0071-2.16-01	SHEET 1
W.O. NUMBER: 1161481		10/19/2016		11:28am		K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_M-0071-2.16-01.dwg		tcurli		OF 1

STREAM DISTURBANCE:

SEE TABLE FOR HYDROSTATIC TEST WATER WITHDRAWAL EQUIPMENT ON SHEET 2 OF 3

STREAM WW-T21-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.7300
PERMANENT STREAM DISTURBANCE	0.1834
TOTAL STREAM DISTURBANCE	0.9134
TEMPORARY FLOODWAY DISTURBANCE	2.0395
PERMANENT FLOODWAY DISTURBANCE	0.0958
TOTAL FLOODWAY DISTURBANCE	2.1353

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	798.73
STREAM LENGTH	50.61

STREAM WW-T93-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0032
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0032
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

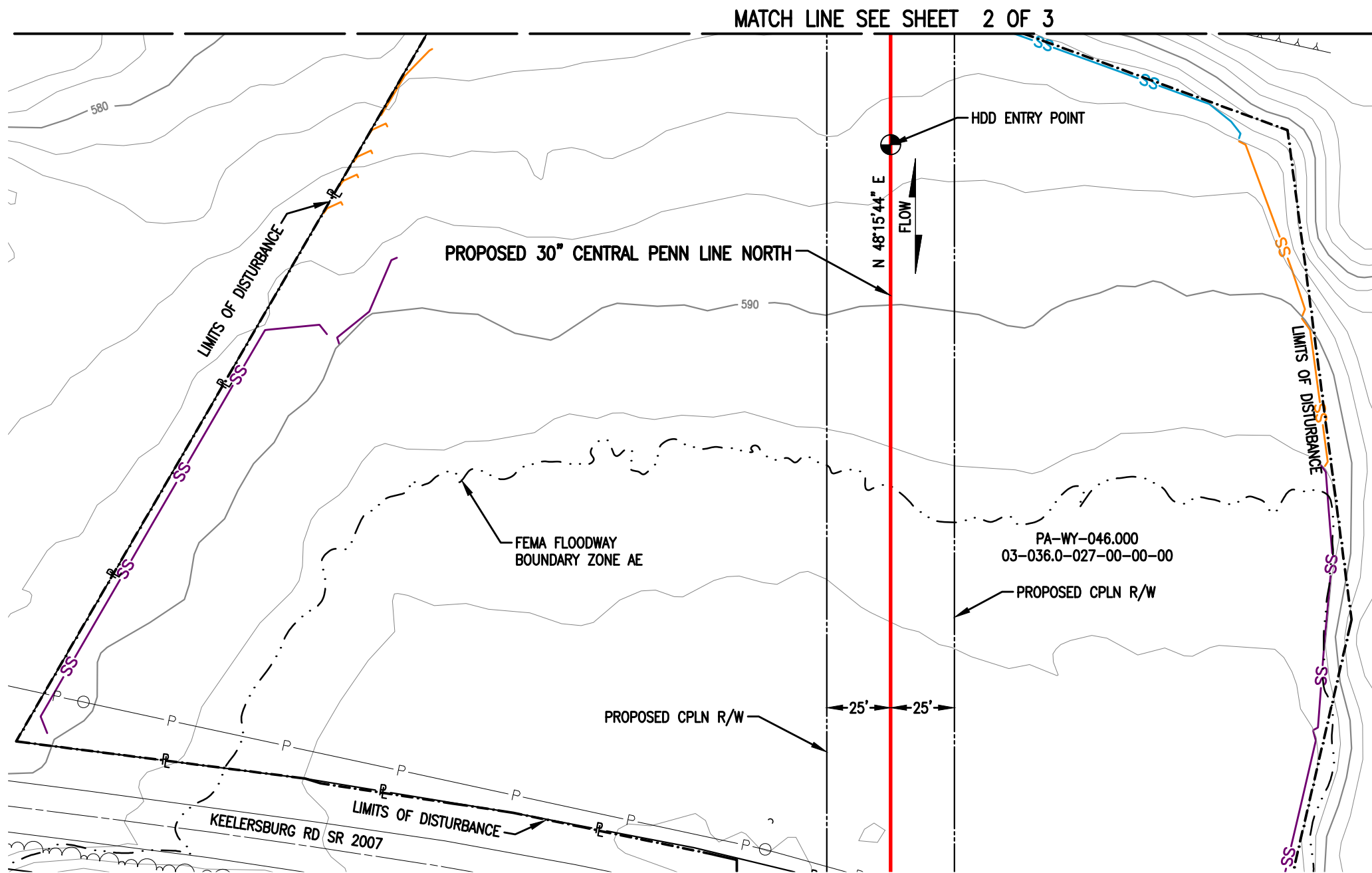
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.52
STREAM LENGTH	60.73

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE HDD.
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 1842+66 ON THE EROSION AND SEDIMENT CONTROL PLAN.

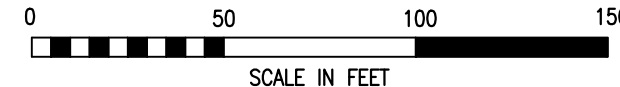
SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 13' LT. OF M.P. 39.92, ELEV. = 565.35' (NAVD88).



PLAN
SCALE: 1" = 50'

THIS DRAWING SUPERCEDES 24-1601-70-09-A/34.98-01



LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT
			TOP OF BANK

DRAWING NO.	REFERENCE TITLE

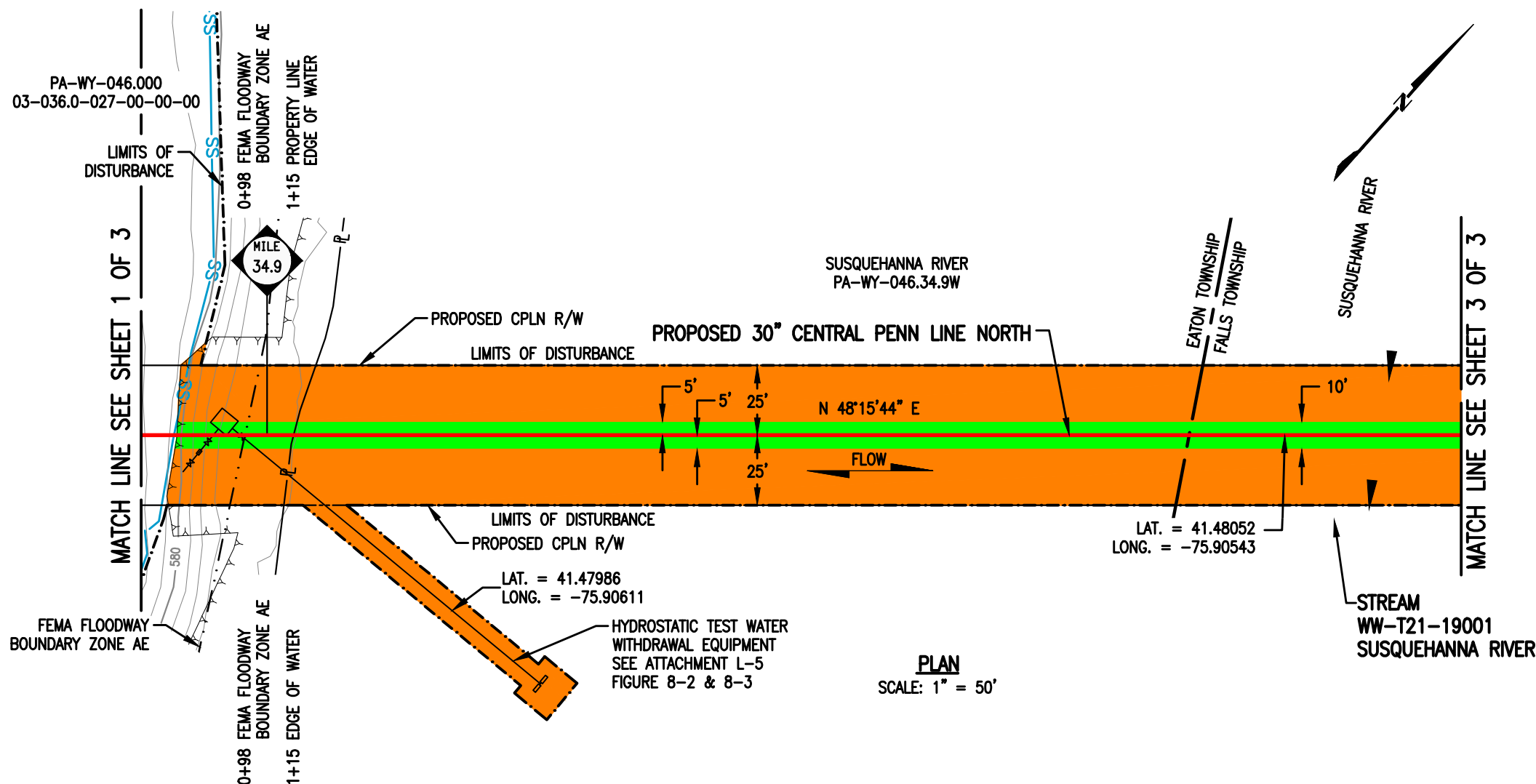
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
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1	02/03/15	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH
2	10/13/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
EATON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: LL	DATE: 01/07/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/34.98-02	SHEET 1
IWO: 1161481		9:45am 10/27/2016 t2le	OF 3

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STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 3

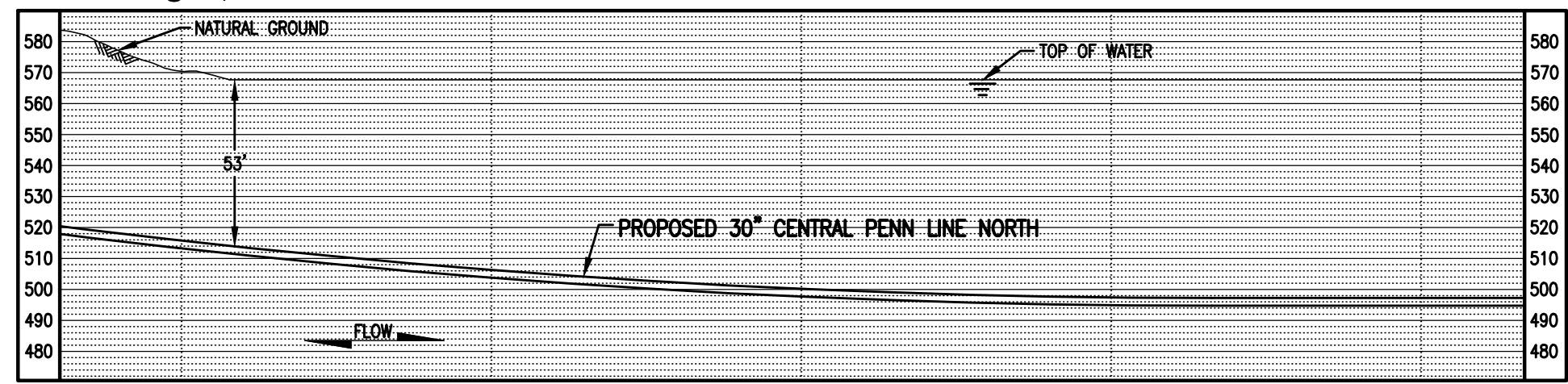
STREAM DISTURBANCE FOR HYDROSTATIC TEST WATER WITHDRAWAL EQUIPMENT

STREAM WW-T21-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0277
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0277
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	798.73
STREAM LENGTH	116.28

GENERAL NOTE:

- NO IN STREAM DISTURBANCE WILL OCCUR, AS HYDROSTATIC EQUIPMENT WILL BE PLACED ON STREAM BED.



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT



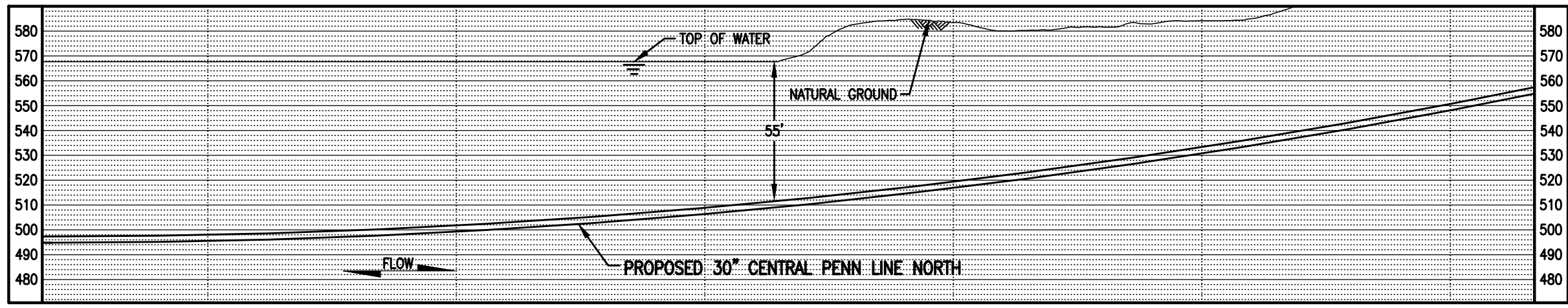
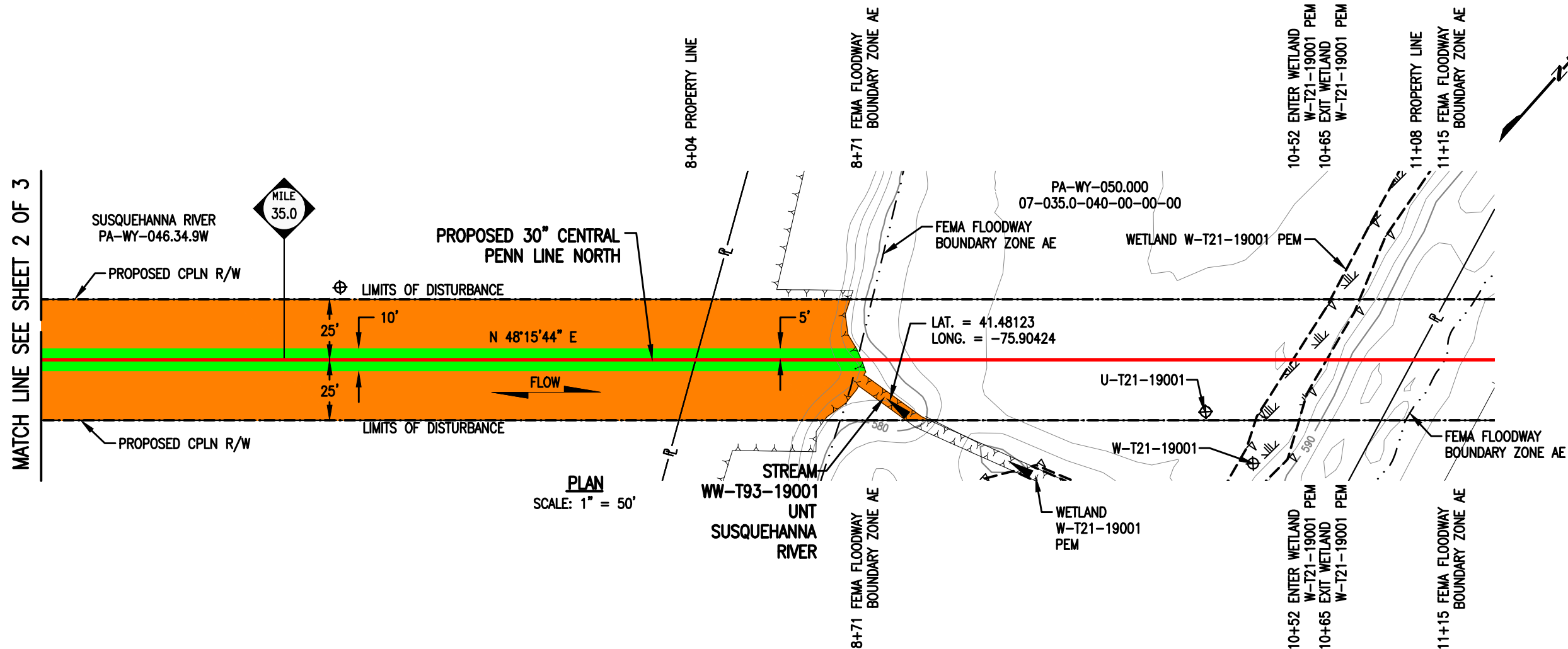
DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	10/13/16	CL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
EATON & FALLS TOWNSHIPS, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: LL	DATE: 01/07/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/34.98-02	SHEET 2
W.O. NUMBER: 1161481		10/27/2016	OF 3

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 3



THIS DRAWING SUPERCEDES 24-1601-70-09-A/34.98-01

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		12" SEDIMENT BARRIER
			18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
			TOP OF BANK
			PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

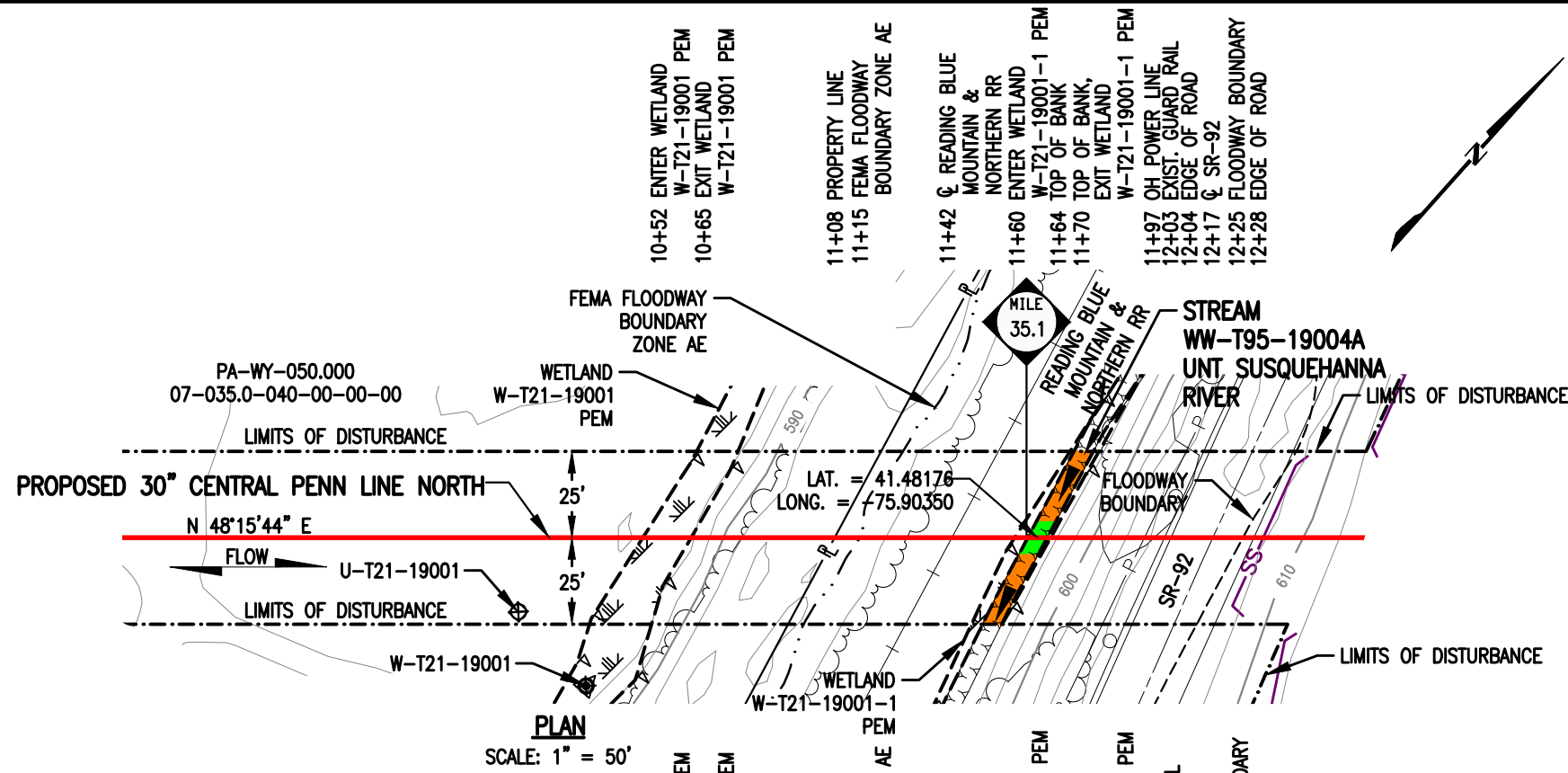
WOOD GROUP MUSTANG, INC.

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	10/13/16	CL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

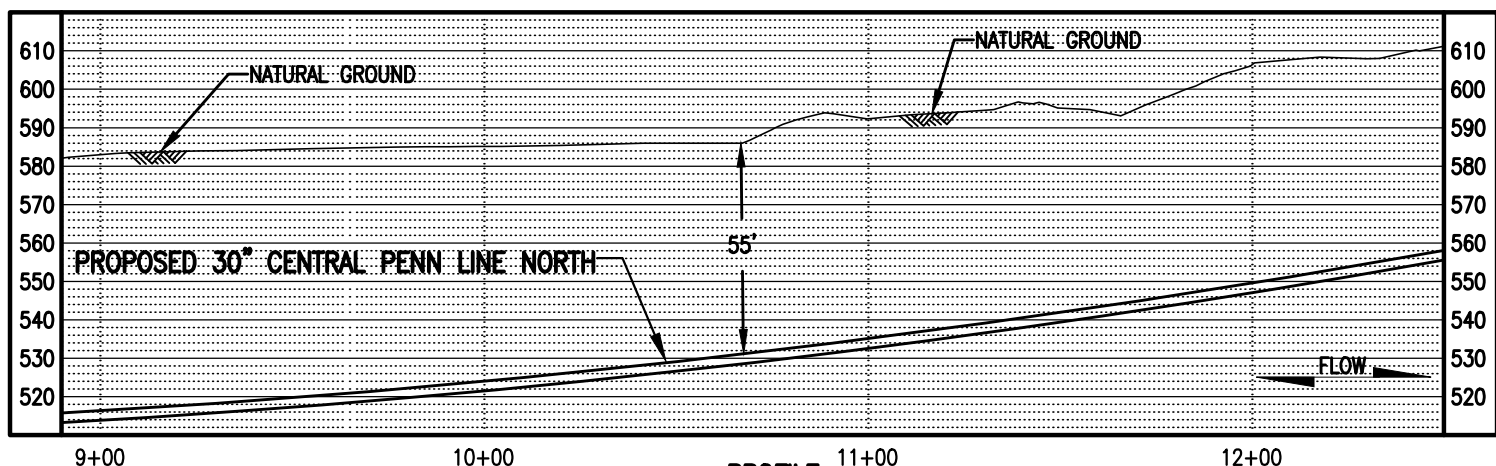
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWING NO.	1161481
DATE	10/21/2016
DRAWN BY	LL
CHECKED BY	ML
APPROVED BY	MJH
DATE	01/07/15
DATE	04/13/15
DATE	04/17/15
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	
DRAWING NUMBER	24-1601-70-09-A/34.98-02
SCALE	1" = 50'
SHEET	3
OF	3



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T95-19004A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0052
PERMANENT STREAM DISTURBANCE	0.0013
TOTAL STREAM DISTURBANCE	0.0065
TEMPORARY FLOODWAY DISTURBANCE	0.0957
PERMANENT FLOODWAY DISTURBANCE	0.0232
TOTAL FLOODWAY DISTURBANCE	0.1189

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.65
STREAM LENGTH	56.59

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE HDD.
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 10+00 SHOWN IS EQUAL TO STATION 1851+65 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 36' RT. OF M.P. 35.11, ELEV. = 608.83' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/35.08-01

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- PL — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P — EXISTING POWER LINE
- X — EXISTING FENCE

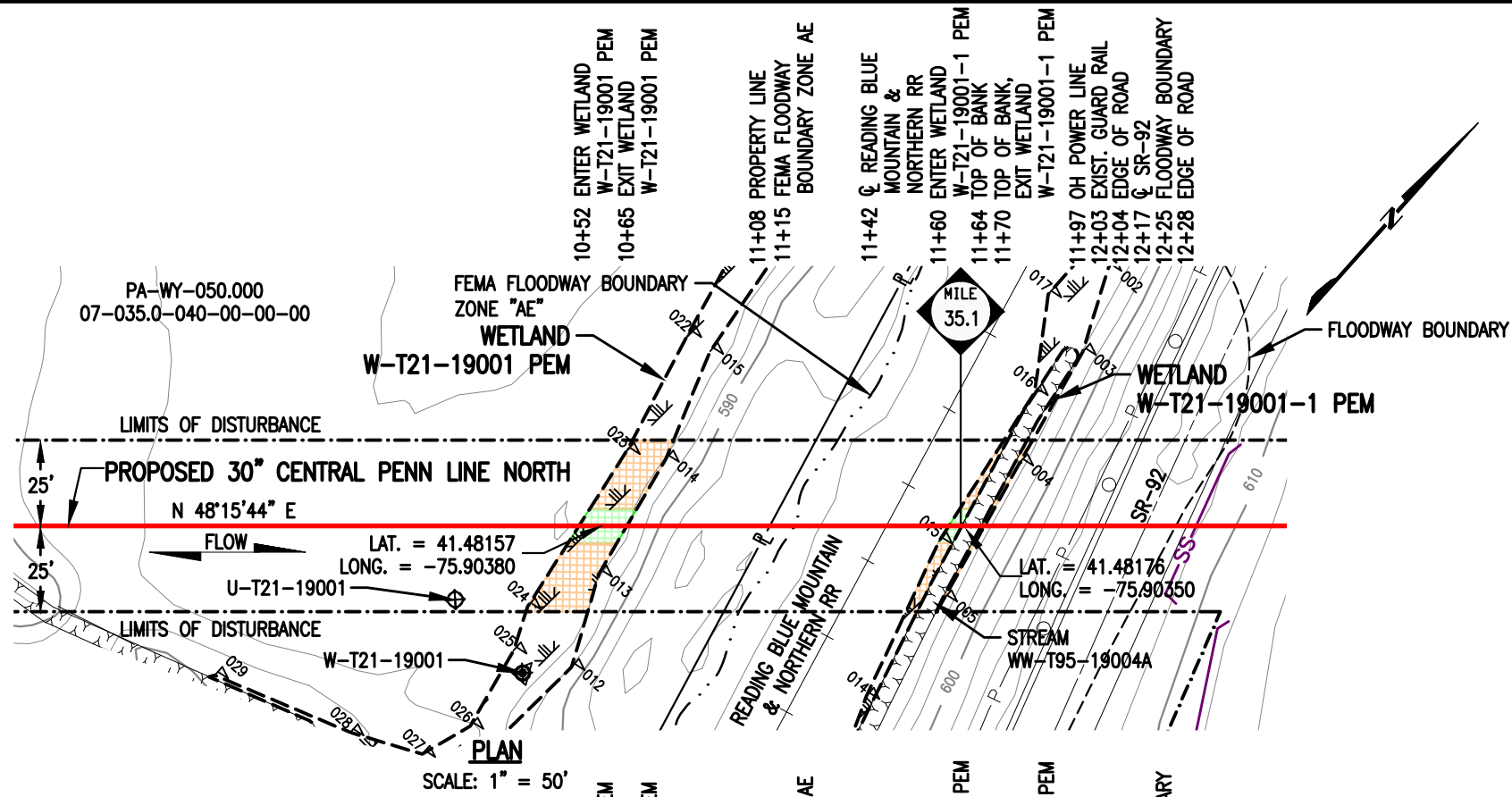
WOOD GROUP MUSTANG, INC.

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — Y — Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

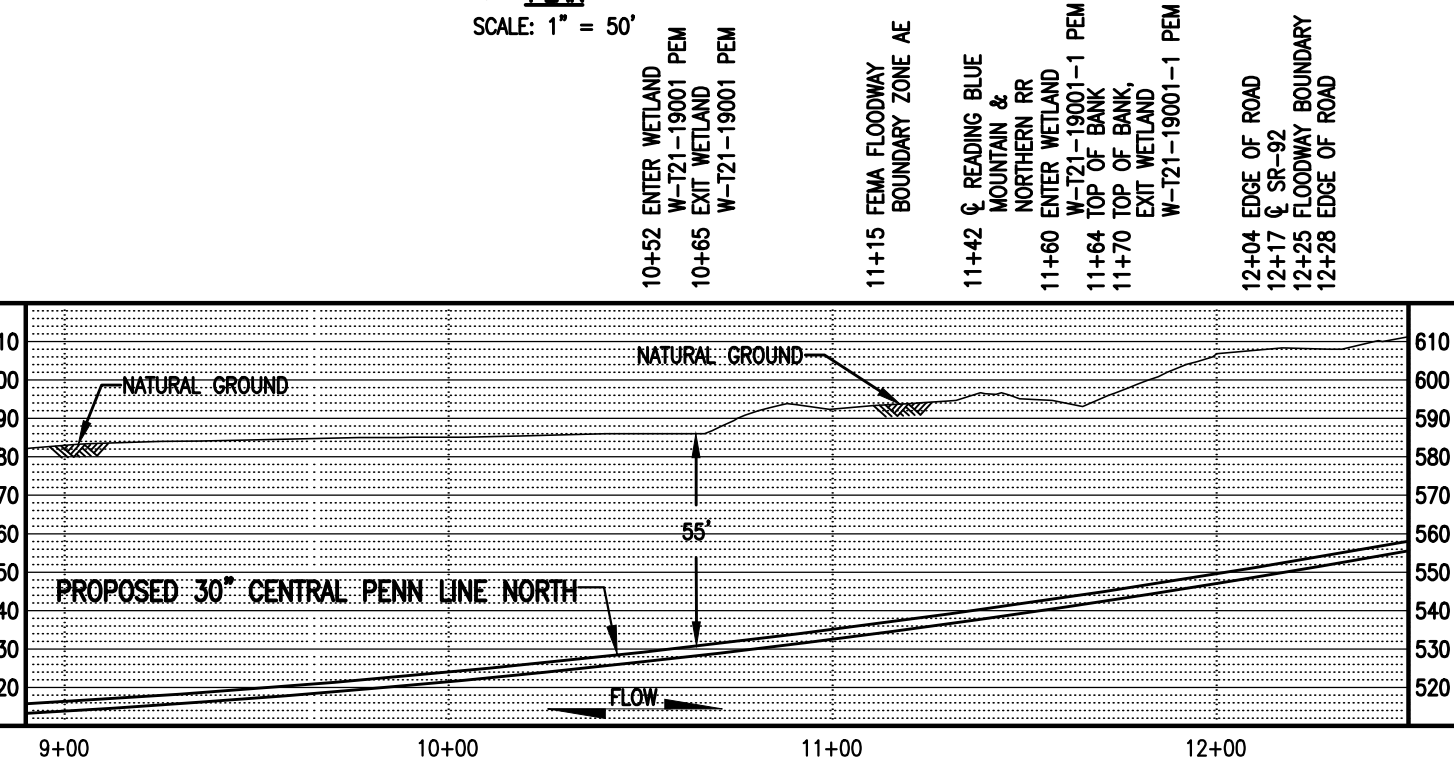
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T95-19004A © M.P. 35.10 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.		REVISION DESCRIPTION			
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH

DRAWN BY: LL	DATE: 07/30/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 07/30/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 07/31/15	DRAWING NUMBER: 24-1601-70-09-A/35.08-02	SHEET 1
IWO: 1161481	11:02am 10/18/2016	105\24-1601-70-09-A_35.08-02.dwg	OF 1



WETLAND DISTURBANCE:

WETLAND W-T21-19001 / W-T21-19001-1	ACRE
TEMPORARY DISTURBANCE	0.0167
PERMANENT DISTURBANCE	0.0043
TOTAL DISTURBANCE	0.0210



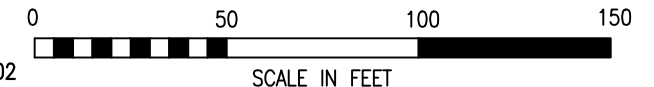
NOTES:

1. WETLAND W-T21-19001 & W-T21-19001-1 WILL BE CROSSED BY HDD.
2. STATION 10+00 SHOWN IS EQUAL TO STATION 1851+65 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 36' RT. OF M.P. 35.11, ELEV. = 608.83' (NAVD88).

PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



THIS DRAWING SUPERCEDES 24-1601-70-20-A/35.08-02

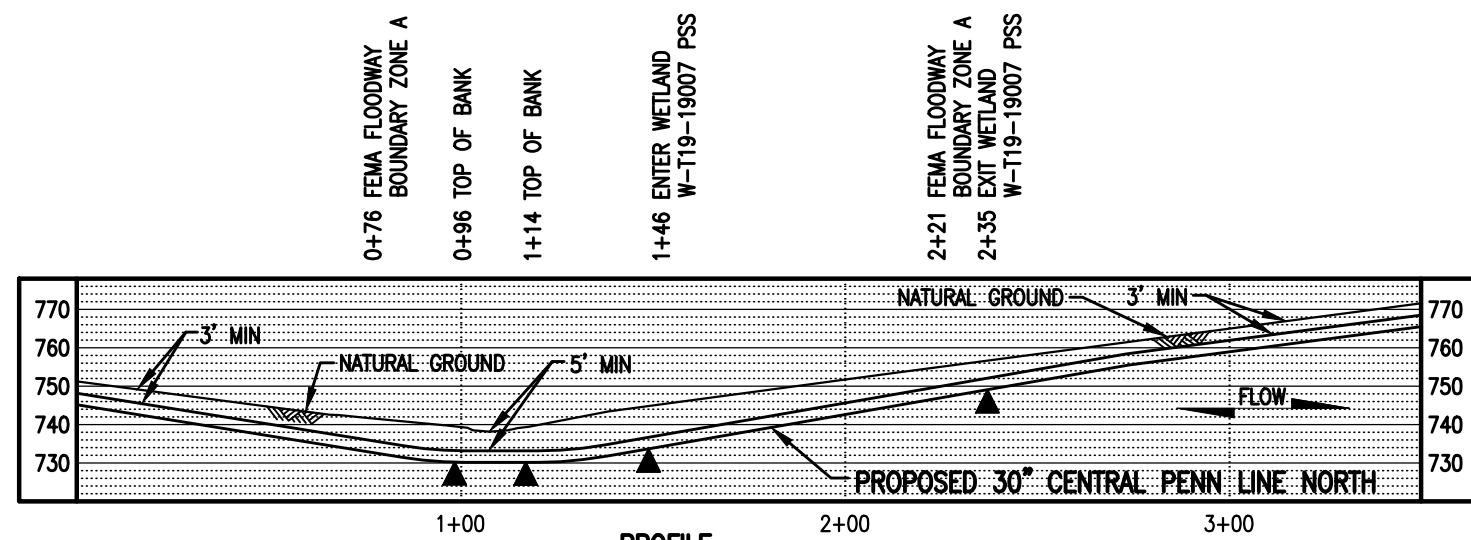
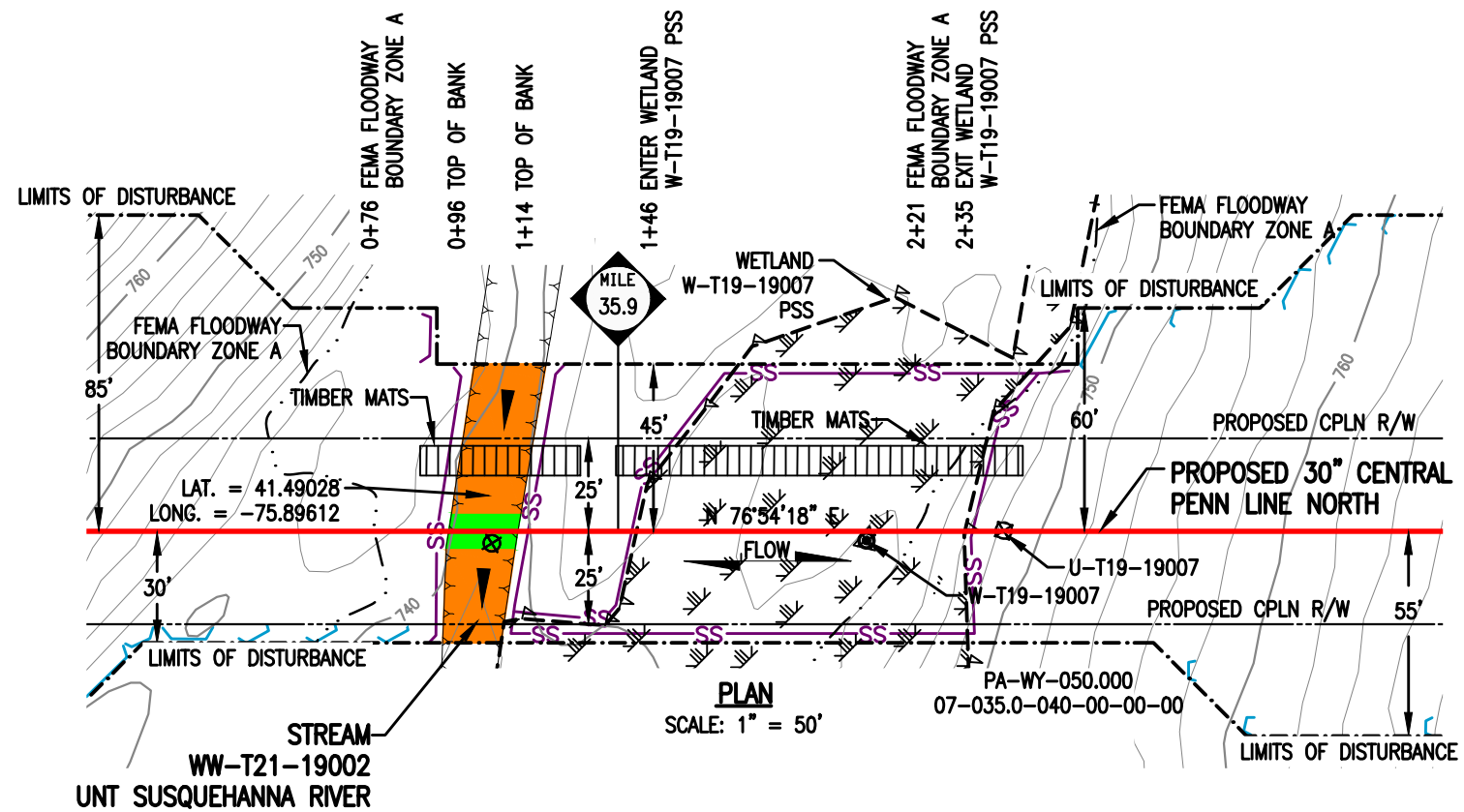
<p>LEGEND</p> <p>— PROPOSED 30" CENTRAL PENN LINE NORTH</p> <p>— EXISTING PIPELINES</p> <p>— EXISTING TGPL R/W</p> <p>--- LIMITS OF DISTURBANCE</p> <p>--- PROPOSED CPLN R/W</p> <p>— P — PROPERTY LINE</p> <p>— FOREIGN PIPELINE</p> <p>WETLAND AREA</p> <p>— P — EXISTING POWER LINE</p> <p>— X — EXISTING FENCE</p>		<p>▽ WETLAND FLAGS</p> <p>⊗ PHOTO DATA POINT</p> <p>⊗ WETLAND DATA POINT</p> <p>⊗ UPLAND DATA POINT</p> <p>⊗ WELL POINT</p> <p>▲ TRENCH PLUG</p> <p>▲ WATERBODY</p> <p>— TREE LINE</p> <p>--- FLOODWAY BOUNDARY</p> <p>--- FEMA FLOODWAY BOUNDARY</p>		<p>WOOD GROUP MUSTANG, INC.</p> <p>— SS — 12" SEDIMENT BARRIER</p> <p>— SS — 18" SEDIMENT BARRIER</p> <p>— SS — 24" SEDIMENT BARRIER</p> <p>— SS — 32" SEDIMENT BARRIER</p> <p>--- TOP OF BANK</p> <p>PERMANENT WETLAND IMPACT</p> <p>TEMPORARY WETLAND IMPACT</p>	
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DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T21-19001 / W-T21-19001-1
© M.P. 35.08
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: LL	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/35.08-02	SHEET 1
W.O. NUMBER: 1161481	10/18/2016	12:53pm	OF 1



STREAM DISTURBANCE:

STREAM WW-T21-19002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0272
PERMANENT STREAM DISTURBANCE	0.0043
TOTAL STREAM DISTURBANCE	0.0315
TEMPORARY FLOODWAY DISTURBANCE	0.1135
PERMANENT FLOODWAY DISTURBANCE	0.0119
TOTAL FLOODWAY DISTURBANCE	0.1254

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	18.57
STREAM LENGTH	75.69

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 1895+06 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 6' LT. OF M.P. 35.89, ELEV. = 738.76' (NAVD88).

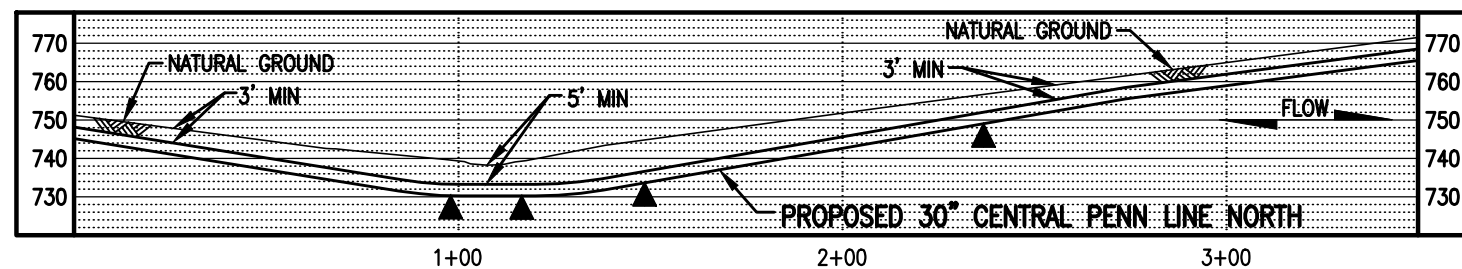
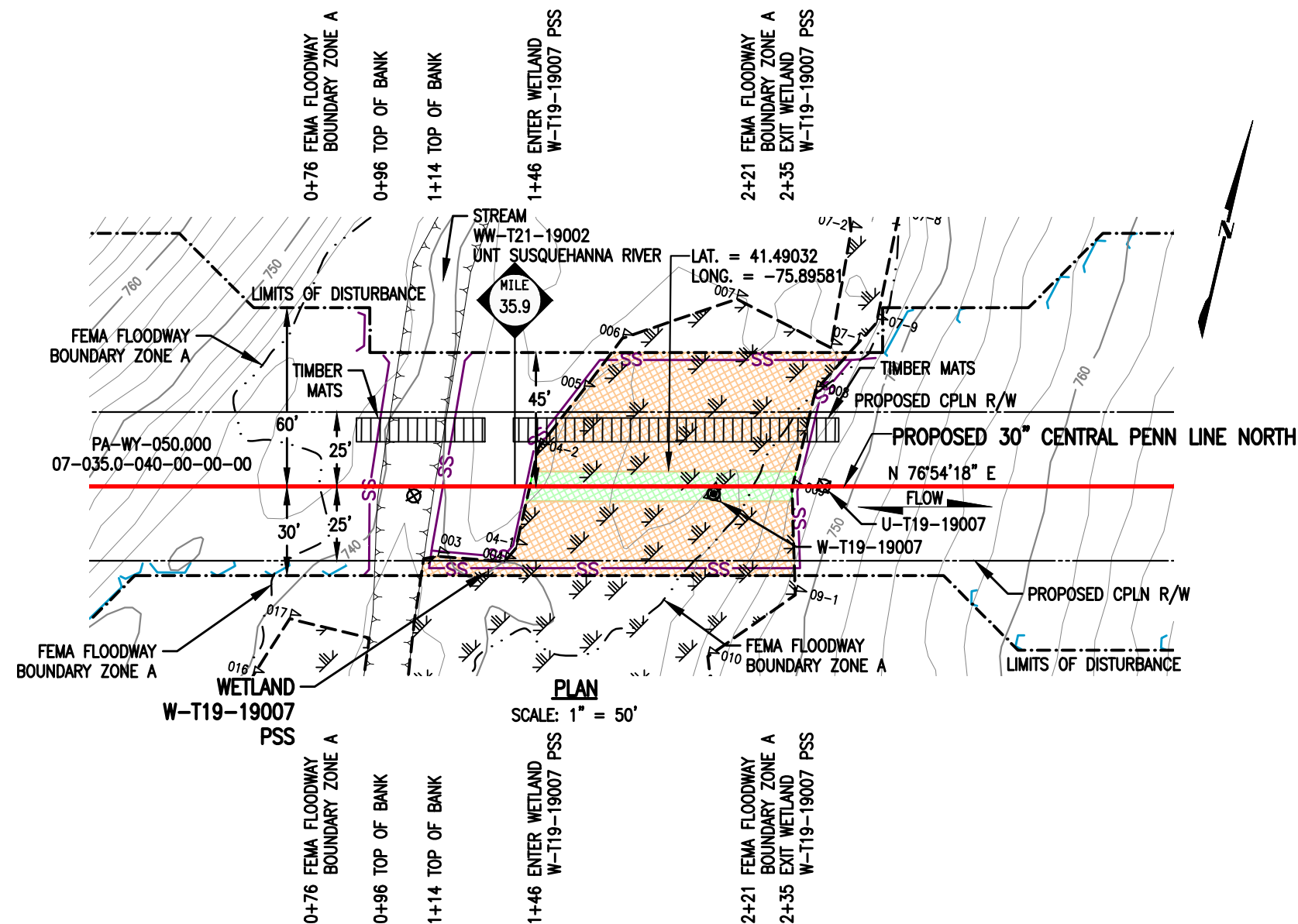
THIS DRAWING SUPERCEDES 24-1601-70-09-A/35.89-01



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T21-19002 © M.P. 35.89 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 01/07/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/35.89-02	SHEET 1
						DRAWING NUMBER: 11-32am 10/18/2016 K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_35.89-02.dwg				OF 1



WETLAND DISTURBANCE:

WETLAND W-T19-19007	ACRE
TEMPORARY DISTURBANCE	0.1333
PERMANENT DISTURBANCE	0.0203
TOTAL DISTURBANCE	0.1536

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 1895+06 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 6' LT. OF M.P. 35.89, ELEV. = 738.76' (NAVD88).

THIS DRAWING SUPERCEDES 24-1601-70-20-A/35.89-01



LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	TOP OF BANK
FOREIGN PIPELINE	WATERBODY	PERMANENT WETLAND IMPACT
WETLAND AREA	TREE LINE	TEMPORARY WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

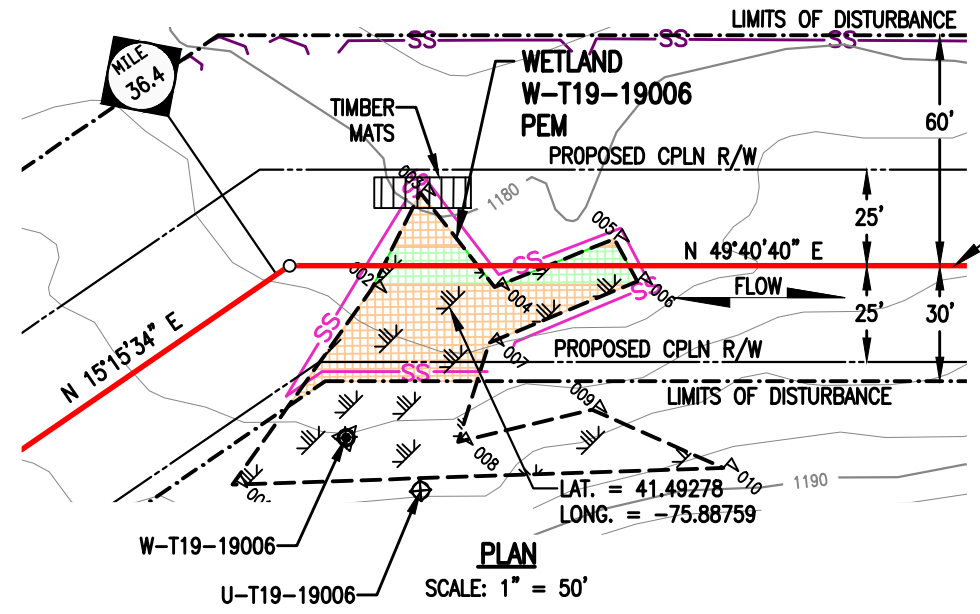
DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
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1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH
2	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T19-19007
© M.P. 35.91
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: LL	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/35.89-02	SHEET 1
IWO: 1161481		10/18/2016	OF 1

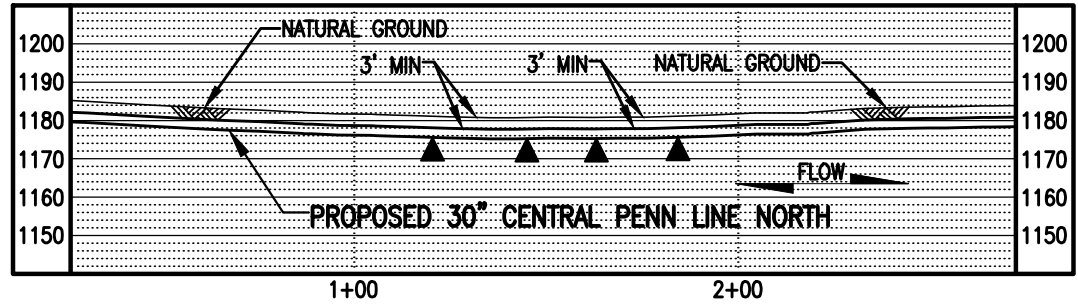
PA-WY-050.000
07-035.0-040-00-00-00

0+96 P.I. < 34°25'05" RT.
1+20 ENTER WETLAND W-T19-19006 PEM
1+45 EXIT WETLAND W-T19-19006 PEM
1+63 ENTER WETLAND W-T19-19006 PEM
1+84 EXIT WETLAND W-T19-19006 PEM



PROPOSED 30" CENTRAL PENN LINE NORTH

1+20 ENTER WETLAND W-T19-19006 PEM
1+45 EXIT WETLAND W-T19-19006 PEM
1+63 ENTER WETLAND W-T19-19006 PEM
1+84 EXIT WETLAND W-T19-19006 PEM



WETLAND DISTURBANCE:

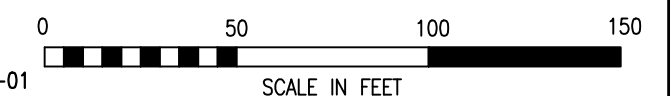
WETLAND W-T19-19006	ACRE
TEMPORARY DISTURBANCE	0.0316
PERMANENT DISTURBANCE	0.0105
TOTAL DISTURBANCE	0.0421

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 1922+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 52' RT. OF M.P. 36.41, ELEV. = 1185.10' (NAVD88).

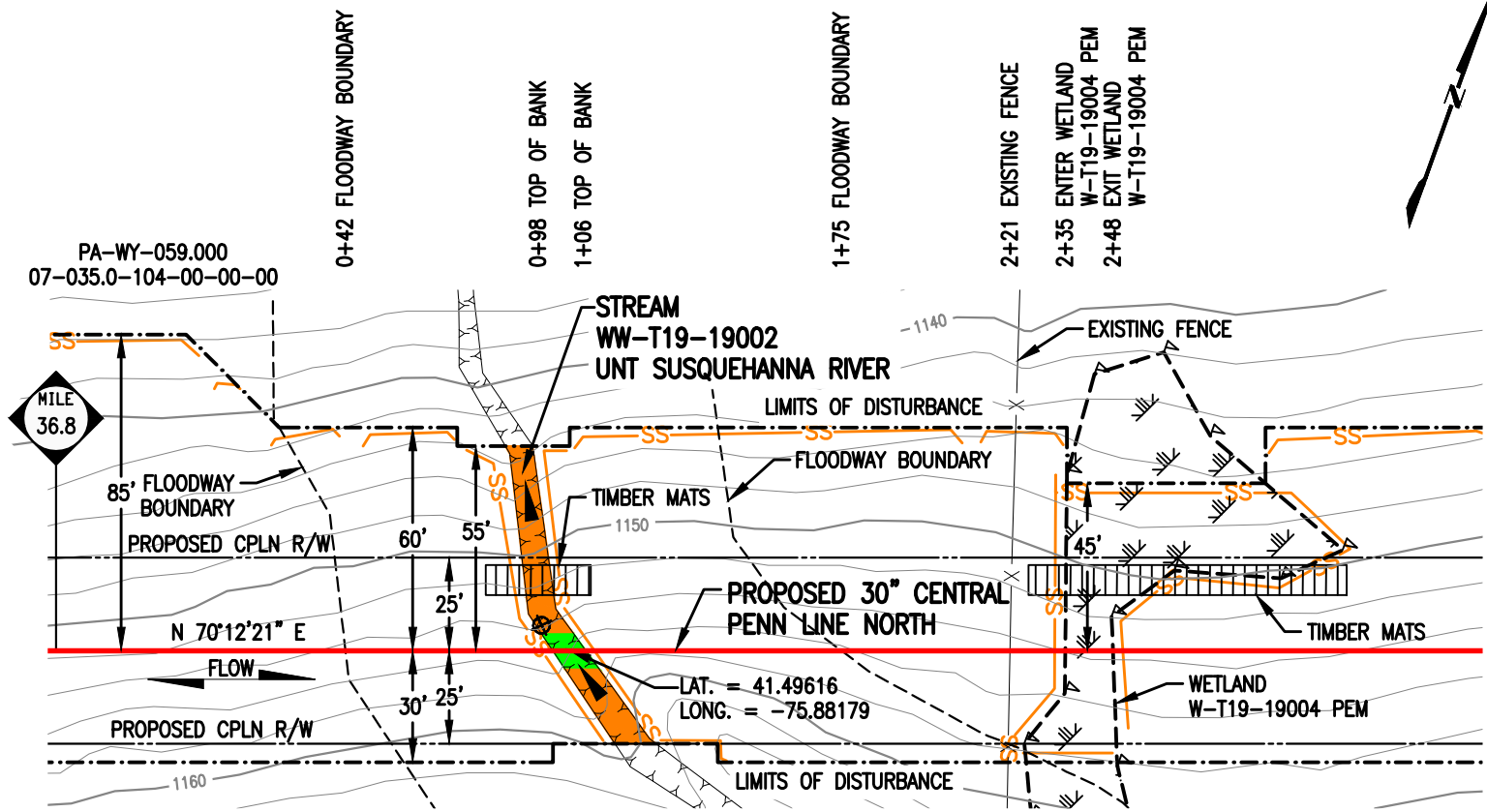


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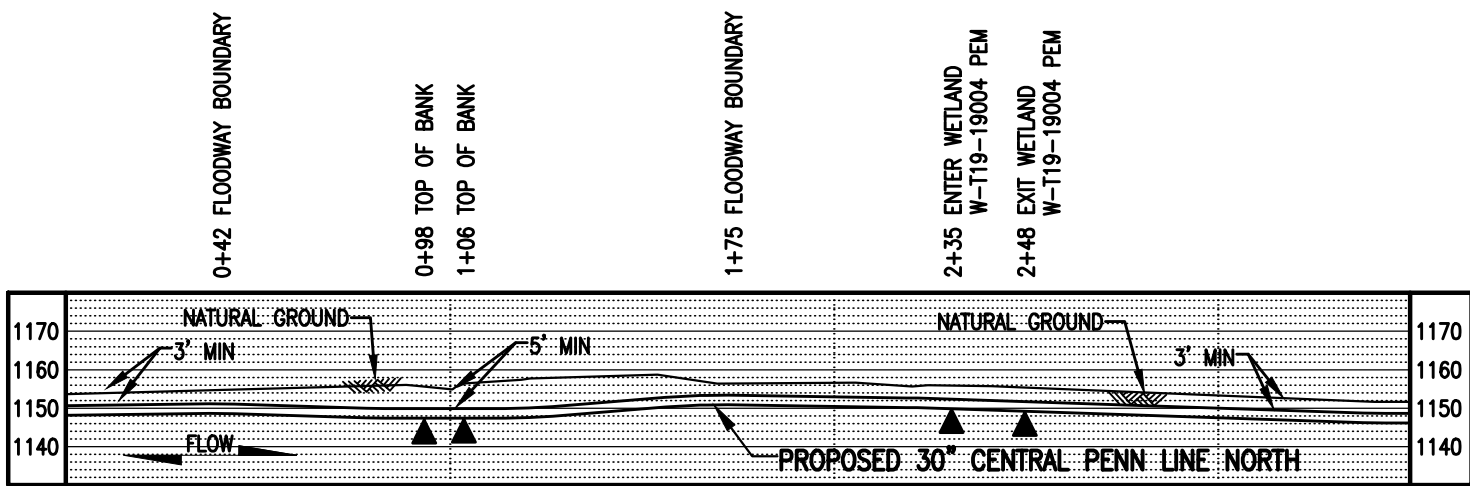
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT WETLAND IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY WETLAND IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		32" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		24" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		12" SEDIMENT BARRIER
	FOREIGN PIPELINE		WATERBODY		18" SEDIMENT BARRIER
	WETLAND AREA		TREE LINE		12" SEDIMENT BARRIER
	EXISTING POWER LINE		FLOODWAY BOUNDARY		18" SEDIMENT BARRIER
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		24" SEDIMENT BARRIER

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T19-19006 M.P. 36.41 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: PGM	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/36.41-02	SHEET 1
						DRAWING NUMBER: 24-1601-70-20-A/36.41-02 9:55am 10/18/2016 djkudll K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_36.41-02.dwg				OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T19-19002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0126
PERMANENT STREAM DISTURBANCE	0.0020
TOTAL STREAM DISTURBANCE	0.0146
TEMPORARY FLOODWAY DISTURBANCE	0.2117
PERMANENT FLOODWAY DISTURBANCE	0.0286
TOTAL FLOODWAY DISTURBANCE	0.2403

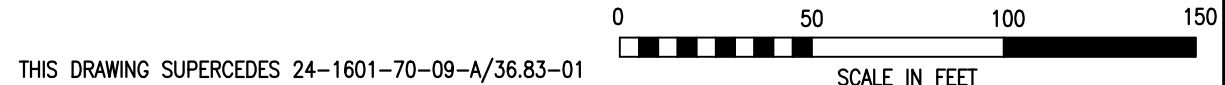
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	8.87
STREAM LENGTH	89.53

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 0+00 SHOWN IS EQUAL TO STATION 1943+40 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 19' RT. OF M.P. 36.83, ELEV. = 1163.99' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/36.83-01

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

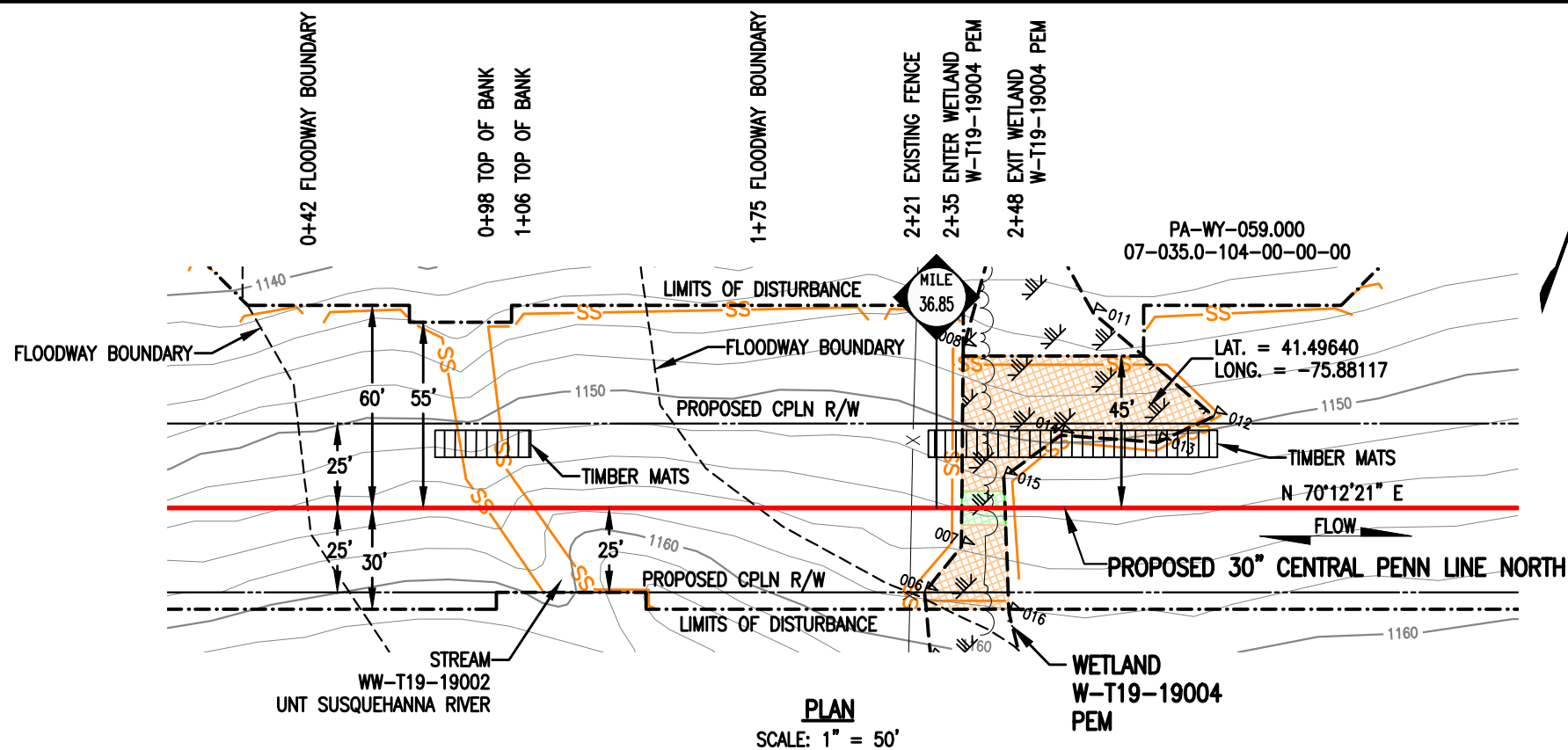


DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT
1	10/13/16	DG	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T19-19002
© M.P. 36.83
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

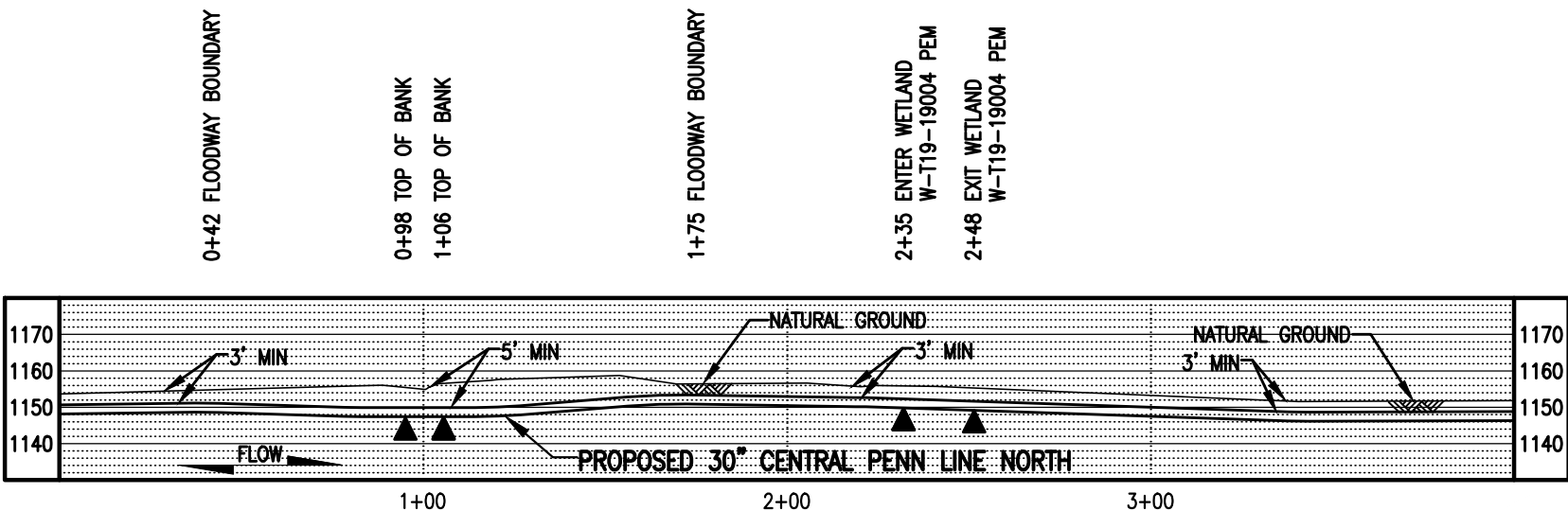
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APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/36.83-02	SHEET 1
WC: 1161481			OF 1



PLAN
SCALE: 1" = 50'

WETLAND DISTURBANCE:

WETLAND W-T19-19004	ACRE
TEMPORARY DISTURBANCE	0.0536
PERMANENT DISTURBANCE	0.0029
TOTAL DISTURBANCE	0.0565



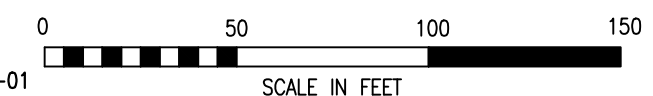
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 0+00 SHOWN IS EQUAL TO STATION 1943+39 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 186' RT. OF M.P. 36.91, ELEV. = 1176.54' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-20-A/36.85-01

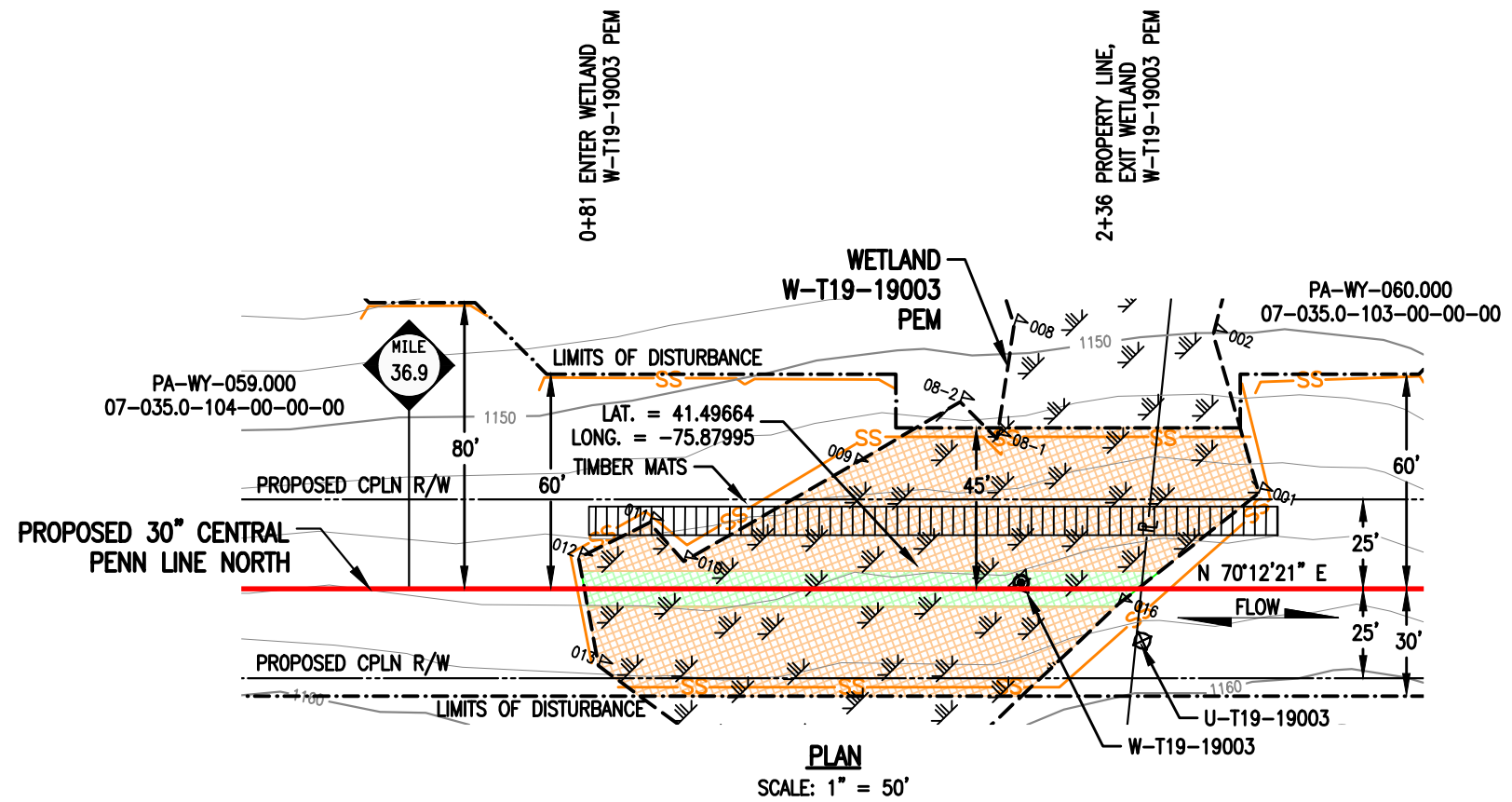
<p>LEGEND</p> <p>— PROPOSED 30" CENTRAL PENN LINE NORTH</p> <p>— EXISTING PIPELINES</p> <p>— EXISTING TGPL R/W</p> <p>--- LIMITS OF DISTURBANCE</p> <p>--- PROPOSED CPLN R/W</p> <p>— PROPERTY LINE</p> <p>— FOREIGN PIPELINE</p> <p>WETLAND AREA</p> <p>— EXISTING POWER LINE</p> <p>— EXISTING FENCE</p>		<p>▽ WETLAND FLAGS</p> <p>⊗ PHOTO DATA POINT</p> <p>⊗ WETLAND DATA POINT</p> <p>⊗ UPLAND DATA POINT</p> <p>⊗ WELL POINT</p> <p>▲ TRENCH PLUG</p> <p>▲ WATERBODY</p> <p>— TREE LINE</p> <p>--- FLOODWAY BOUNDARY</p> <p>--- FEMA FLOODWAY BOUNDARY</p>		<p>WOOD GROUP MUSTANG, INC.</p> <p>— SS 12" SEDIMENT BARRIER</p> <p>— SS 18" SEDIMENT BARRIER</p> <p>— SS 24" SEDIMENT BARRIER</p> <p>— SS 32" SEDIMENT BARRIER</p> <p>--- TOP OF BANK</p> <p>PERMANENT WETLAND IMPACT</p> <p>TEMPORARY WETLAND IMPACT</p>	
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DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T19-19004
© M.P. 36.86
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

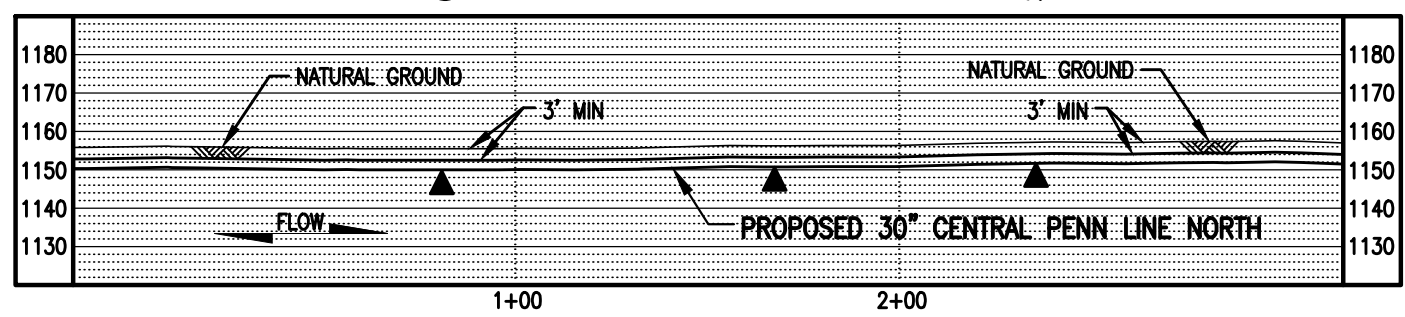
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CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/36.85-02	SHEET 1
WO: 1161481		10/18/2016	OF 1



WETLAND DISTURBANCE:

WETLAND W-T19-19003	ACRE
TEMPORARY DISTURBANCE	0.1922
PERMANENT DISTURBANCE	0.0355
TOTAL DISTURBANCE	0.2277

- NOTES:
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 1+00 SHOWN IS EQUAL TO STATION 1949+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.



PROFILE

SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

- SURVEY NOTES:
- T.B.M. SURVEY CONTROL POINT - 186' RT. OF M.P. 36.91, ELEV. = 1176.54' (NAVD88).

THIS DRAWING SUPERCEDES 24-1601-70-20-A/36.91-01

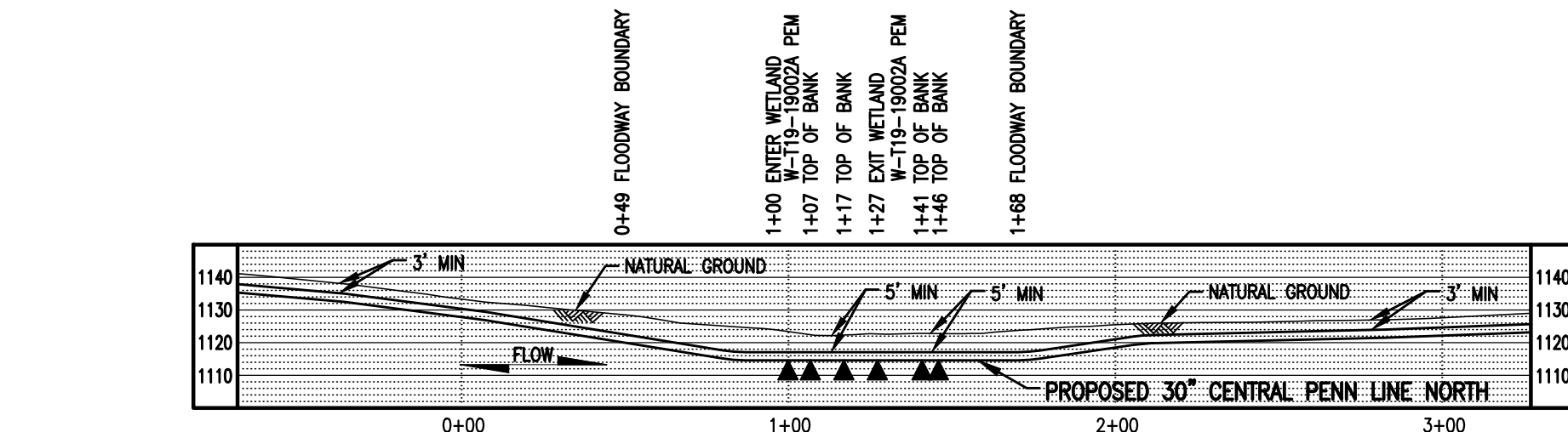
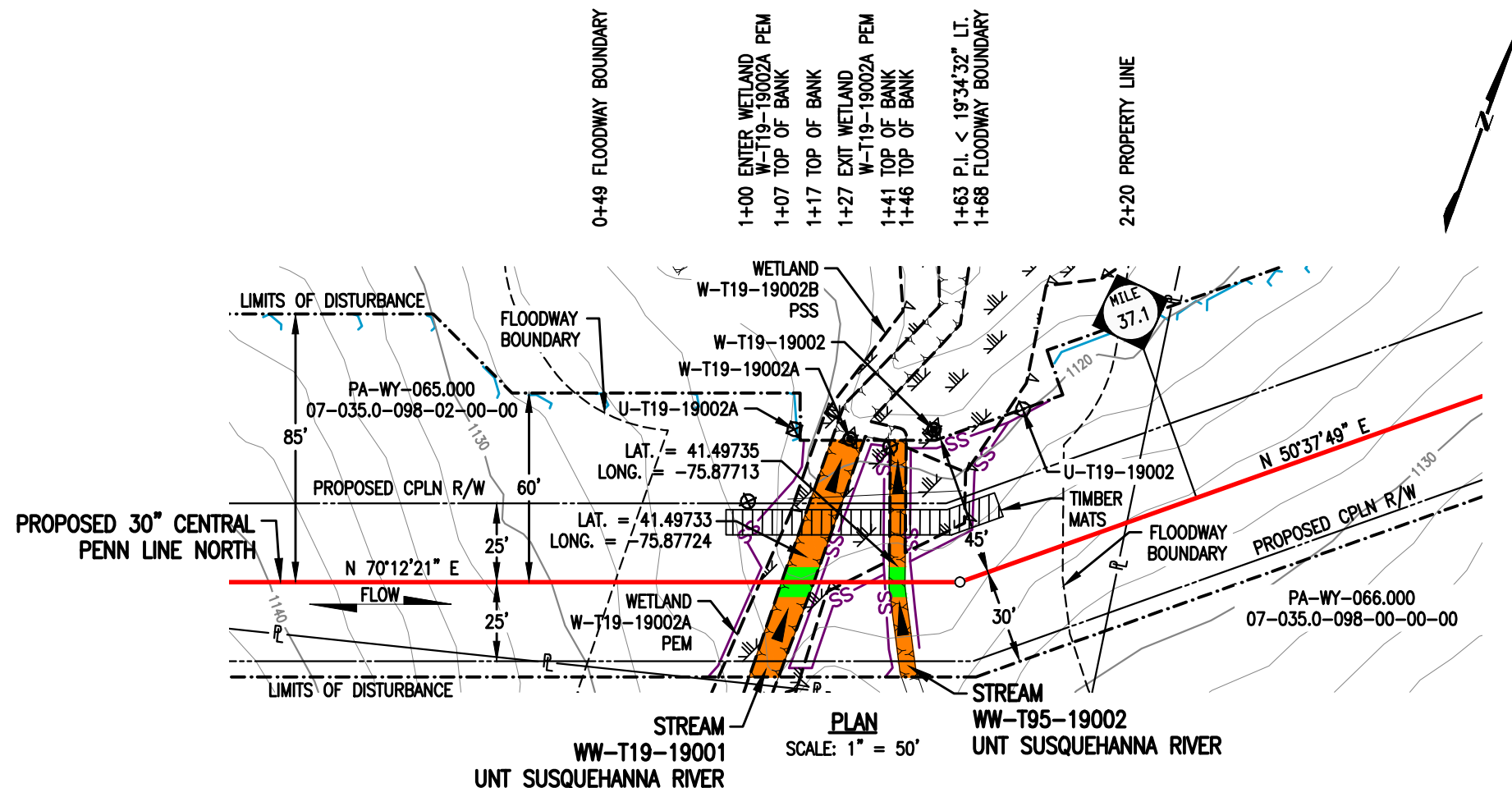
SCALE IN FEET

0 50 100 150

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT WETLAND IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY WETLAND IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		32" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		24" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		12" SEDIMENT BARRIER
	FOREIGN PIPELINE		WATERBODY		18" SEDIMENT BARRIER
	WETLAND AREA		TREE LINE		TOP OF BANK
	EXISTING POWER LINE		FLOODWAY BOUNDARY		
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC						
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS						
				ATLANTIC SUNRISE PROJECT						
				PROPOSED 30" CENTRAL PENN LINE NORTH						
				WETLAND CROSSING W-T19-19003						
				© M.P. 36.93						
				FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: PGM	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/36.91-02	SHEET 1
2	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	W.O. NUMBER: 1161481	DATE: 10/18/2016	1:00pm	OF 1



STREAM DISTURBANCE:

STREAM WW-T19-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0150
PERMANENT STREAM DISTURBANCE	0.0023
TOTAL STREAM DISTURBANCE	0.0173
TEMPORARY FLOODWAY DISTURBANCE	0.1760
PERMANENT FLOODWAY DISTURBANCE	0.0256
TOTAL FLOODWAY DISTURBANCE	0.2016

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	10.26
STREAM LENGTH	90.24

STREAM WW-T95-19002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0075
PERMANENT STREAM DISTURBANCE	0.0011
TOTAL STREAM DISTURBANCE	0.0086
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	4.98
STREAM LENGTH	75.32

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T19-19001 AND WW-T95-19002 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 1957+52 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 43' LT. OF M.P. 37.09, ELEV. = 1119.29' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/37.07-01

LEGEND

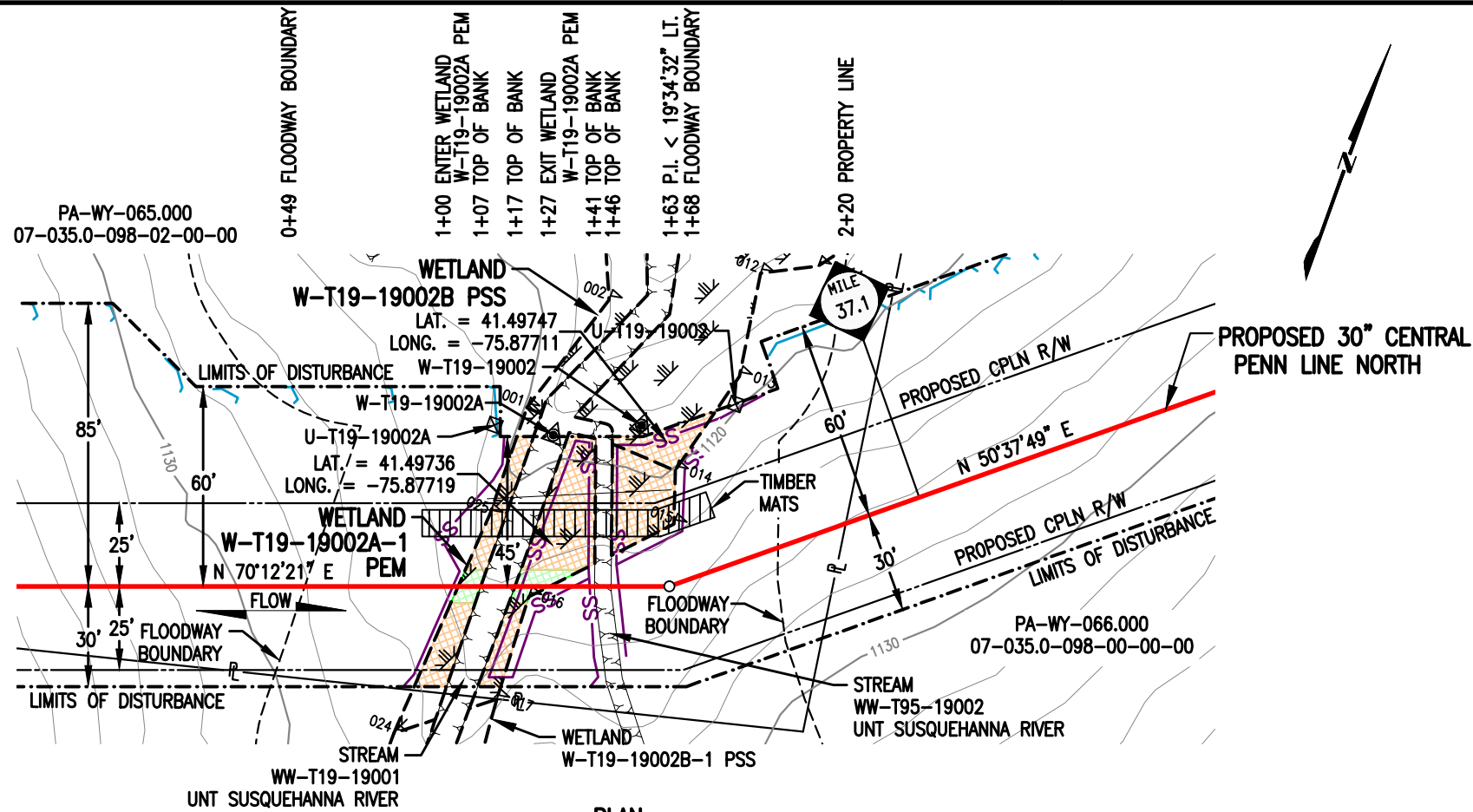
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P — EXISTING POWER LINE
- X — EXISTING FENCE

WOOD GROUP MUSTANG, INC.

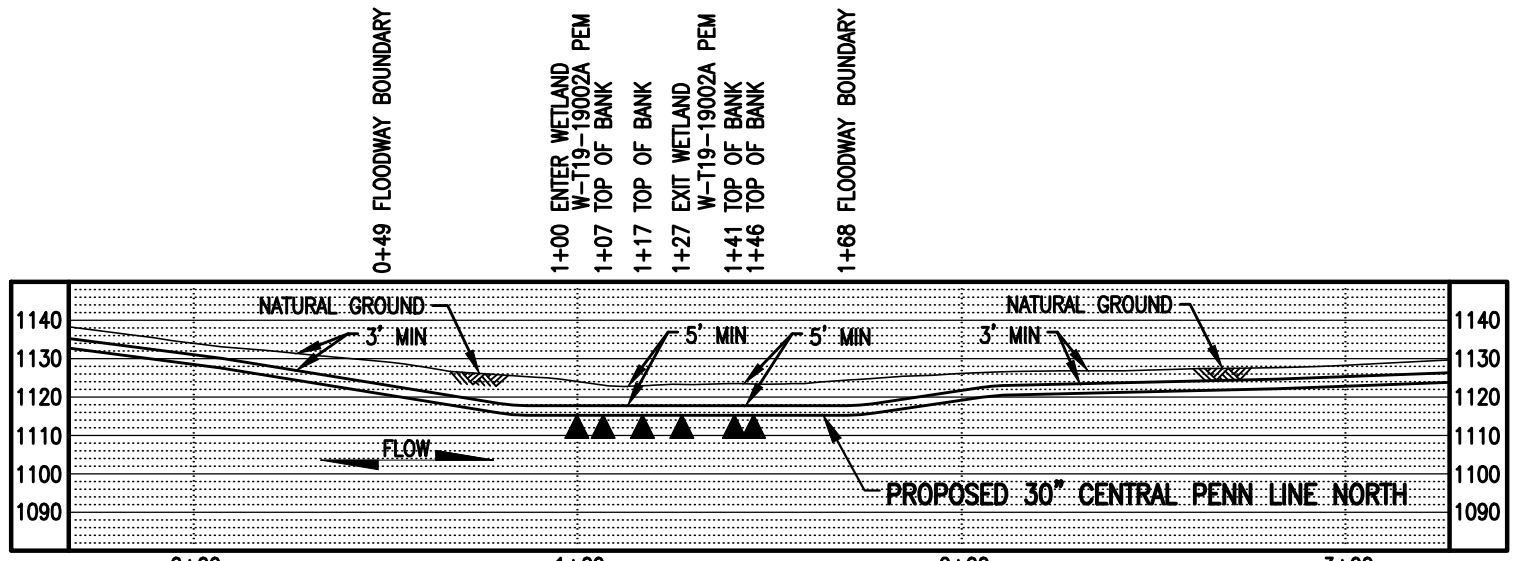
- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊗ WETLAND DATA POINT
- ⊗ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- ▲ WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC	
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSINGS WW-T19-19001 & WW-T95-19002 © M.P. 37.08 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	AT	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 12/24/14		ISSUED FOR BID:	
CHECKED BY: ML		DATE: 04/13/15		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-09-A/37.07-02	
IWO: 1161481				SCALE: 1" = 50'	
				REVISION: 2	
				SHEET 1 OF 1	



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

WETLAND DISTURBANCE:

WETLAND W-T19-19002A-1	ACRE
TEMPORARY DISTURBANCE	0.0379
PERMANENT DISTURBANCE	0.0040
TOTAL DISTURBANCE	0.0419

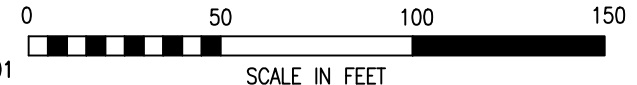
WETLAND W-T19-19002B	ACRE
TEMPORARY DISTURBANCE	0.0050
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0050

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 1957+52 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 12' LT. OF M.P. 36.99, ELEV. = 1150.21' (NAVD88).



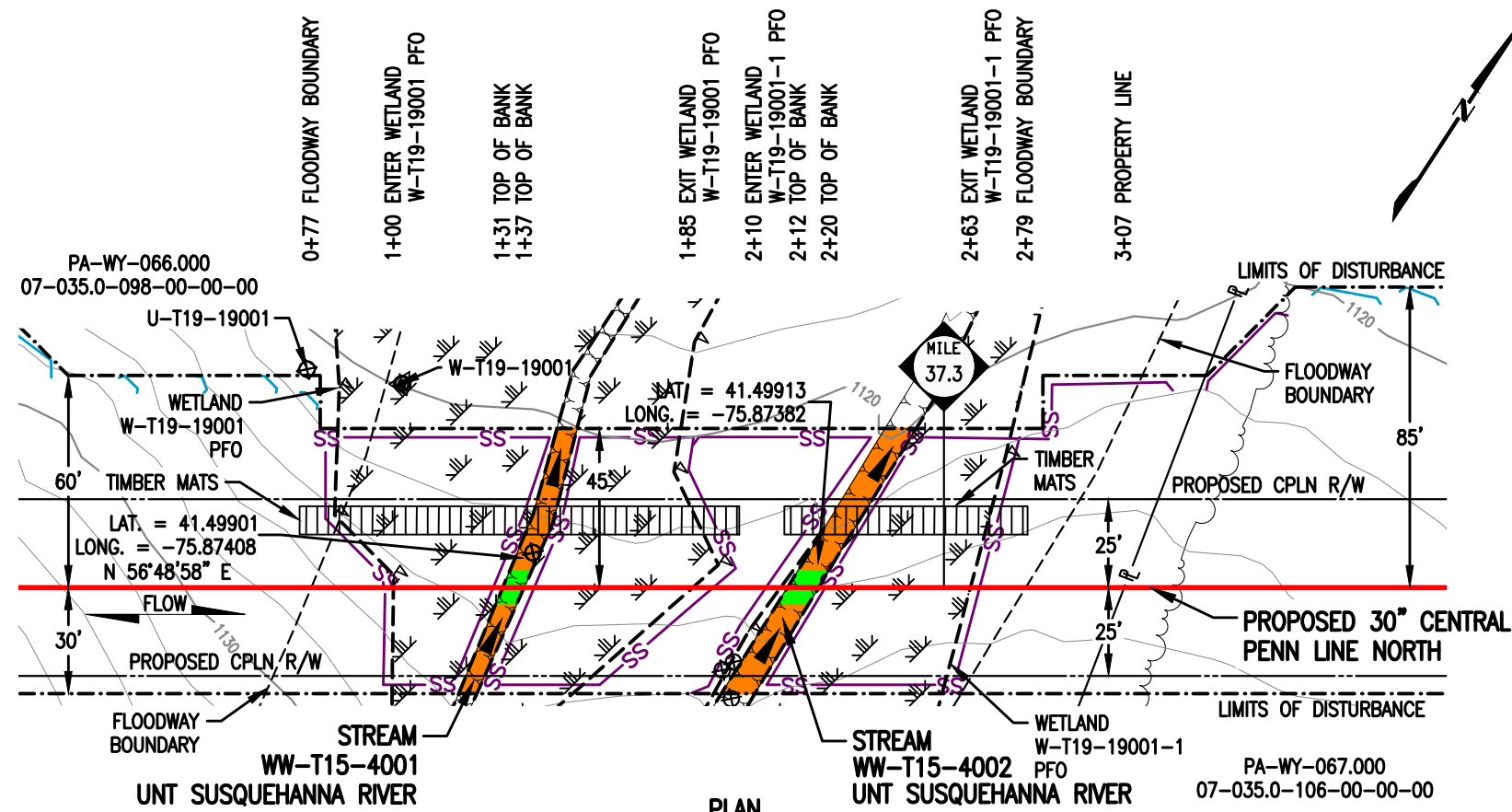
THIS DRAWING SUPERCEDES 24-1601-70-20-A/37.07-01

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS	
	EXISTING PIPELINES		PHOTO DATA POINT	
	EXISTING TGPL R/W		WETLAND DATA POINT	
	LIMITS OF DISTURBANCE		UPLAND DATA POINT	
	PROPOSED CPLN R/W		WELL POINT	
	PROPERTY LINE		TRENCH PLUG	
	FOREIGN PIPELINE		WATERBODY	
	WETLAND AREA		TREE LINE	
	EXISTING POWER LINE		FLOODWAY BOUNDARY	
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY	

	12" SEDIMENT BARRIER		PERMANENT WETLAND IMPACT
	18" SEDIMENT BARRIER		TEMPORARY WETLAND IMPACT
	24" SEDIMENT BARRIER		
	32" SEDIMENT BARRIER		
	TOP OF BANK		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSINGS W-T19-19002A-1 @ M.P. 37.08 & W-T19-19002B @ M.P. 37.09 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: PGM	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	MA	ISSUED FOR PADEP SUBMITAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/37.07-02	SHEET 1
				1:05pm		10/18/2016		d1kuu11		OF 1



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T15-4001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0088
PERMANENT STREAM DISTURBANCE	0.0014
TOTAL STREAM DISTURBANCE	0.0102
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	6.06
STREAM LENGTH	84.10

STREAM WW-T15-4002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0132
PERMANENT STREAM DISTURBANCE	0.0020
TOTAL STREAM DISTURBANCE	0.0152
TEMPORARY FLOODWAY DISTURBANCE	0.1147
PERMANENT FLOODWAY DISTURBANCE	0.0146
TOTAL FLOODWAY DISTURBANCE	0.1293

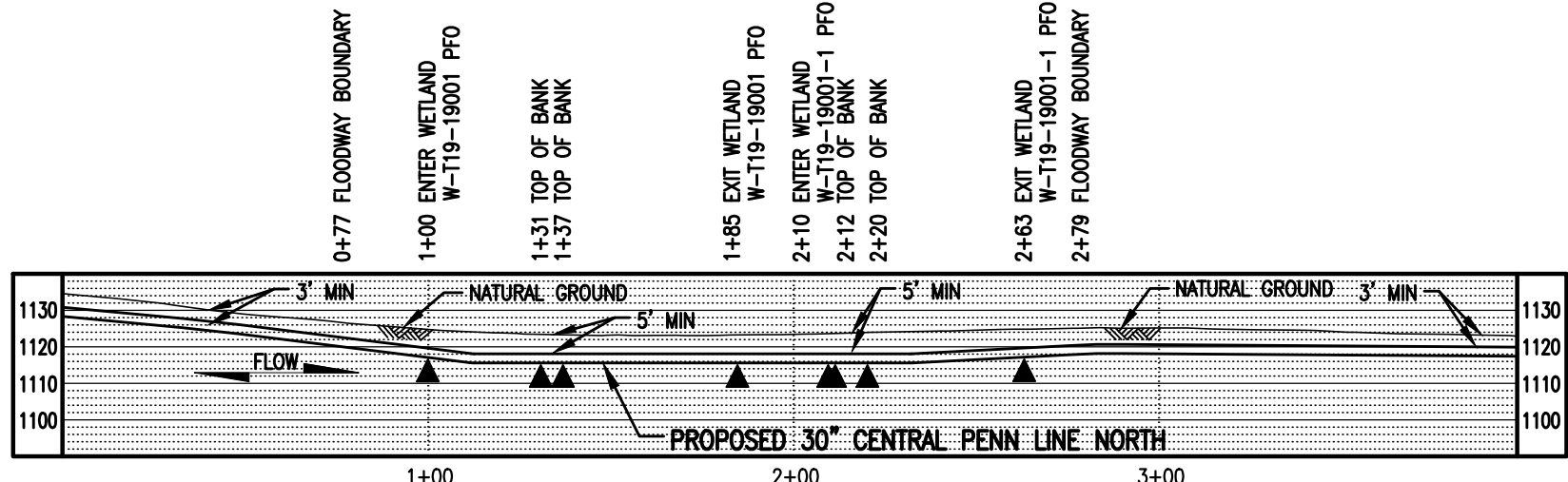
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	8.80
STREAM LENGTH	92.85

GENERAL NOTES FOR STREAMS WW-T15-4001 & WW-T15-4002:

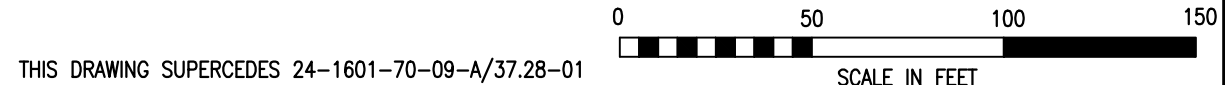
1. STREAM CROSSING METHOD FOR WW-T15-4001 AND WW-T15-4002 SHALL BE DAM & PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. FLOODWAY IMPACTS ARE SHOWN ON STREAM WW-T15-4002, AS FLOODWAYS OVERLAP.
4. STATION 1+00 SHOWN IS EQUAL TO STATION 1967+88 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 7' LT. OF M.P. 37.30, ELEV. = 1123.63' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- ▲ WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY
- SS 12" SEDIMENT BARRIER
- SS 18" SEDIMENT BARRIER
- SS 24" SEDIMENT BARRIER
- SS 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO. _____

REFERENCE TITLE _____

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T15-4001 @ M.P. 37.28 &
WW-T15-4002 @ M.P. 37.29
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: LL DATE: 12/24/14 ISSUED FOR BID: _____ SCALE: 1" = 50'

CHECKED BY: ML DATE: 04/13/15 ISSUED FOR CONSTRUCTION: _____ REVISION: 1

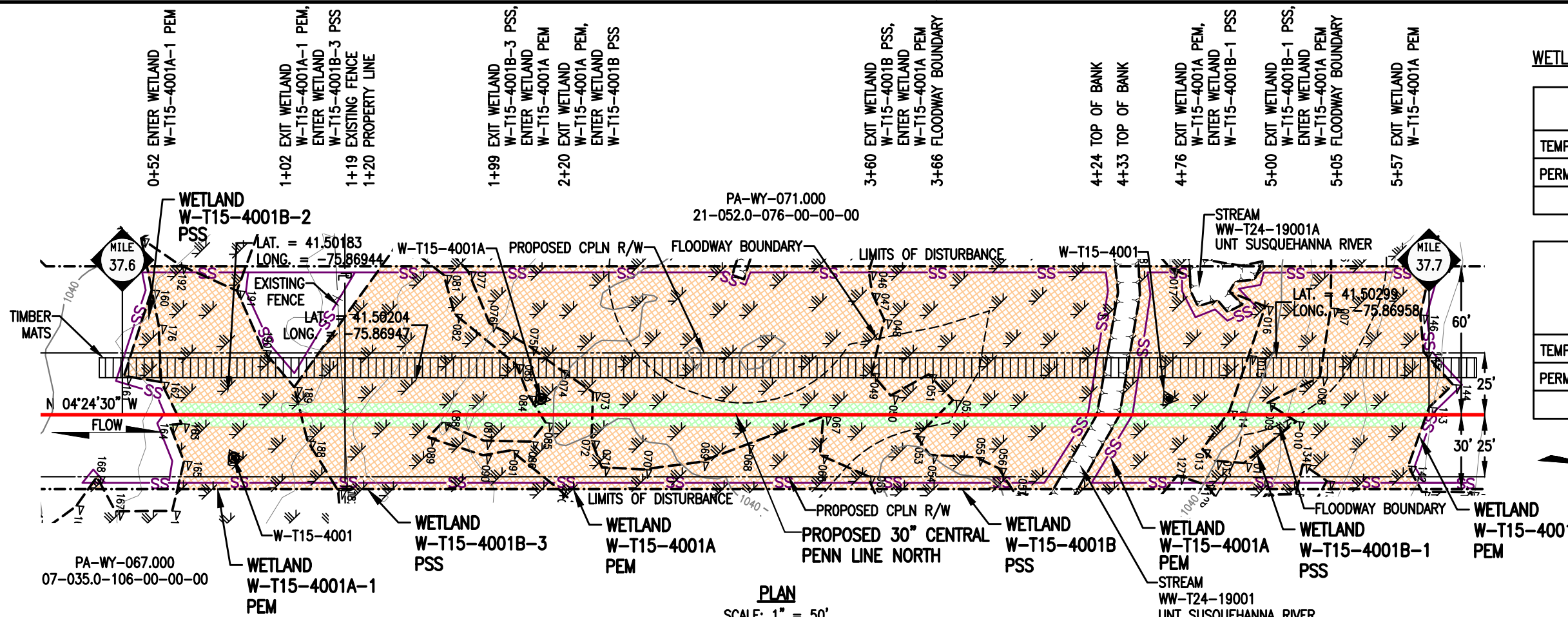
APPROVED BY: MJH DATE: 04/17/15

DRAWING NUMBER: **24-1601-70-09-A/37.28-02** SHEET 1

W.O. NUMBER: 1161481 OF 1

9/20/2016 c:\m\thi
K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_37.28-02.dwg

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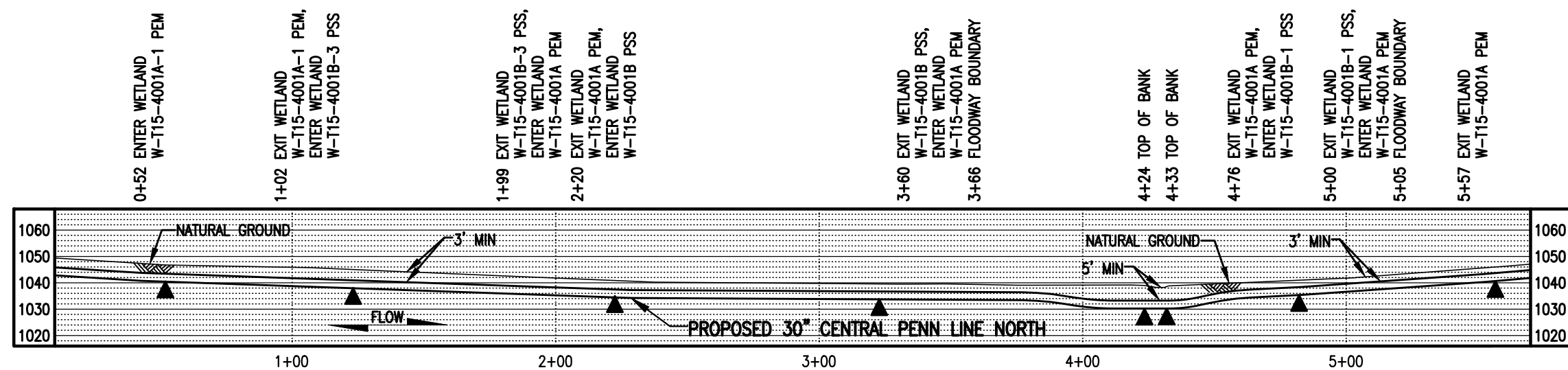


WETLAND DISTURBANCE:

WETLAND W-T15-4001A / W-T15-4001A-1	ACRE
TEMPORARY DISTURBANCE	0.4655
PERMANENT DISTURBANCE	0.0550
TOTAL DISTURBANCE	0.5205

WETLAND W-T15-4001B / W-T15-4001B-1 / W-T15-4001B-2 / W-T15-4001B-3	ACRE
TEMPORARY DISTURBANCE	0.4128
PERMANENT DISTURBANCE	0.0589
TOTAL DISTURBANCE	0.4717

- NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 3+00 SHOWN IS EQUAL TO STATION 1988+98 ON THE EROSION AND SEDIMENT CONTROL PLAN.



- SURVEY NOTES:**
- T.B.M. SURVEY CONTROL POINT - 75' RT. OF M.P. 37.63, ELEV. = 1041.78' (NAVD88).

PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

THIS DRAWING SUPERCEDES 24-1601-70-20-A/37.60-01



LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - LIMITS OF DISTURBANCE
- - - - PROPOSED CPLN R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- EXISTING POWER LINE
- EXISTING FENCE

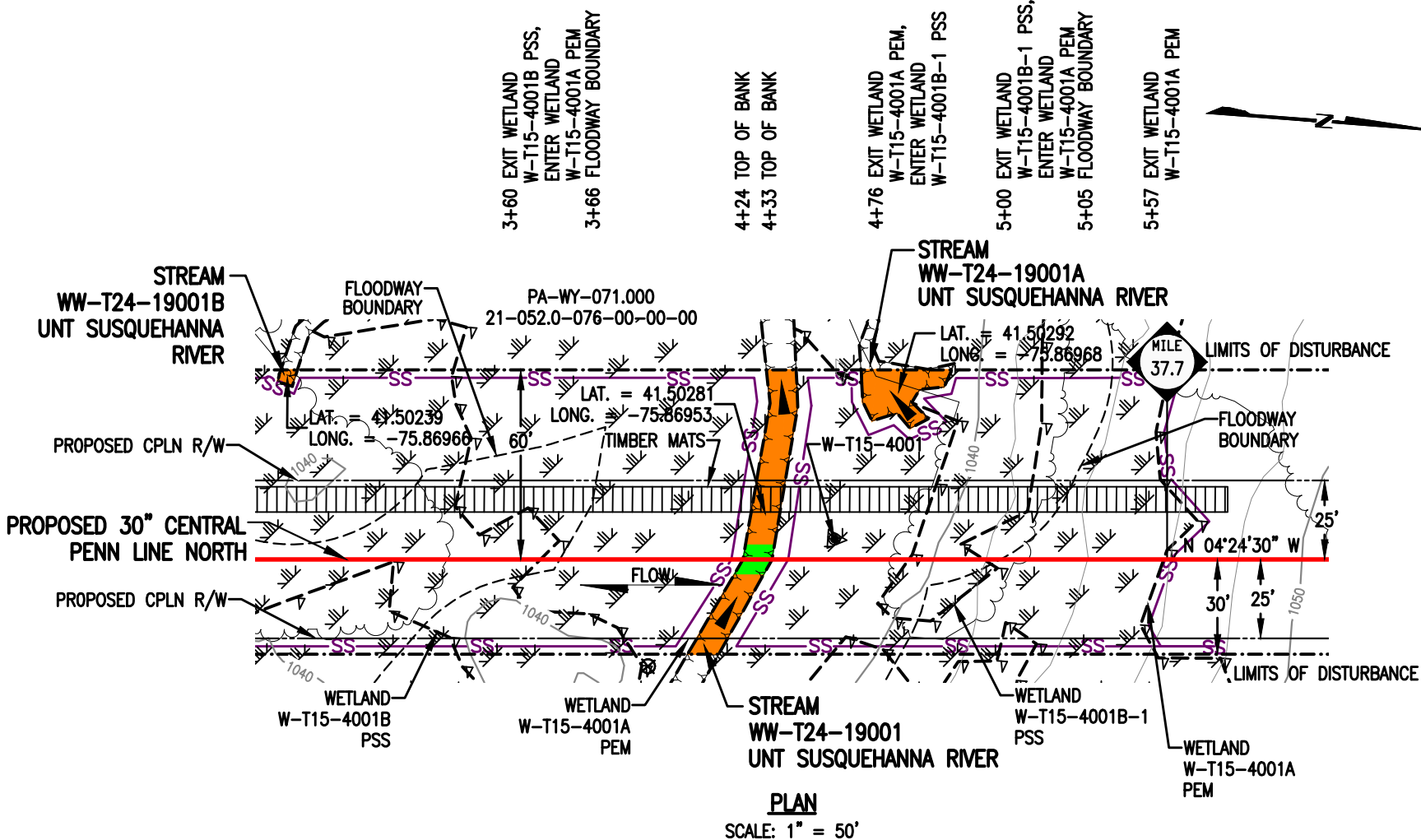
- ▲ WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- FLOODWAY BOUNDARY
- FEMA FLOODWAY BOUNDARY

WOOD GROUP MUSTANG, INC.

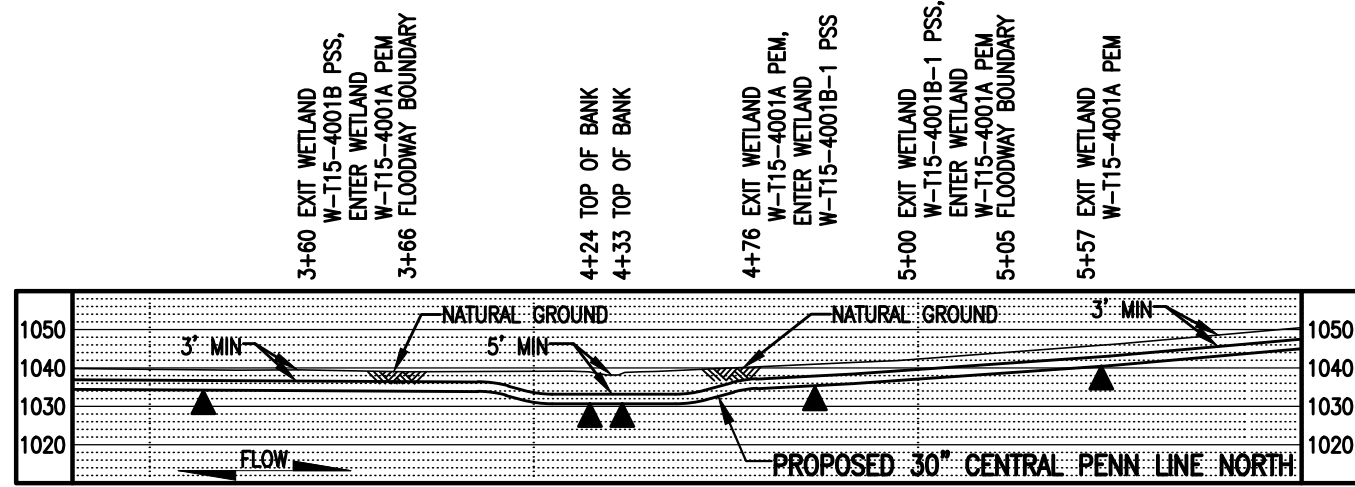
- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSINGS W-T15-4001A/W-T15-4001A-1 @ M.P. 37.61 & W-T15-4001B/W-T15-4001B-1/W-T15-4001B-2/W-T15-4001B-3 @ M.P. 37.62 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.		REVISION DESCRIPTION			
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	THL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	AD	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH

DRAWN BY:	PGM	DATE:	03/06/15	ISSUED FOR BID:	SCALE:	1" = 50'
CHECKED BY:	ML	DATE:	04/13/15	ISSUED FOR CONSTRUCTION:	REVISION:	2
APPROVED BY:	MJH	DATE:	04/19/15	DRAWING NUMBER:		SHEET 1
W.O.:	1161481			24-1601-70-20-A/37.60-02		OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T24-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0169
PERMANENT STREAM DISTURBANCE	0.0021
TOTAL STREAM DISTURBANCE	0.0190
TEMPORARY FLOODWAY DISTURBANCE	0.0013
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0013

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	9.15
STREAM LENGTH	98.76

STREAM WW-T24-19001B	ACRE
TEMPORARY STREAM DISTURBANCE	0.0005
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0005
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	4.99
STREAM LENGTH	4.51

STREAM WW-T24-19001A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0076
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0076
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	18.52
STREAM LENGTH	16.43

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR STREAM WW-T24-19001 SHALL BE FLUME (FX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. STREAMS WW-T24-19001A AND WW-T24-19001B DO NOT CROSS PROPOSED PIPELINE.
3. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
4. STATION 3+00 SHOWN IS EQUAL TO STATION 1988+98 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 75' RT. OF M.P. 37.63, ELEV. = 1041.78' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/37.68-01

LEGEND

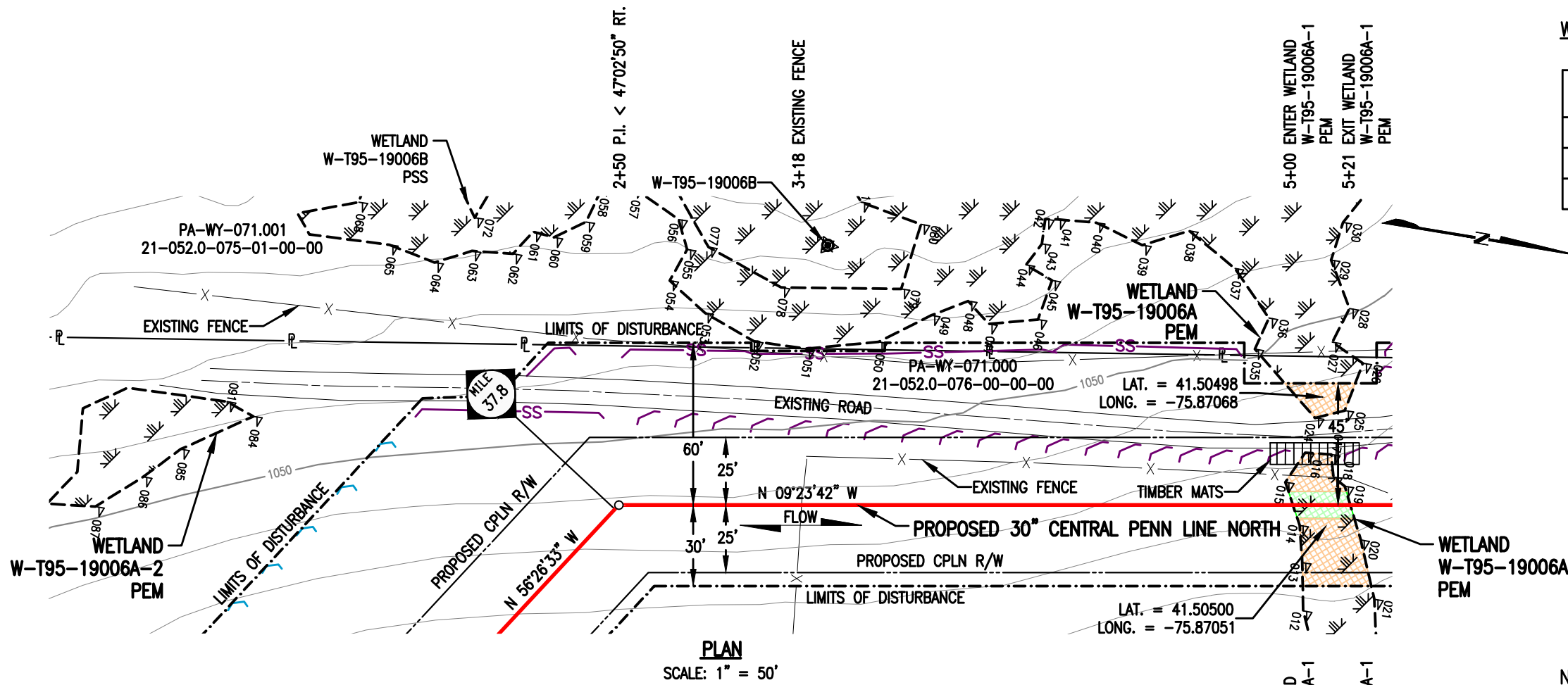
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P — EXISTING POWER LINE
- X — EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- ▲ WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — Y — Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC	
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSINGS WW-T24-19001B @ M.P. 37.65, WW-T24-19001 & WW-T24-19001A @ M.P. 37.68 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: TL		DATE: 07/31/15		ISSUED FOR BID:	
CHECKED BY: CLR		DATE: 07/31/15		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-09-A/37.68-02 SHEET 1	
IWC: 1161481				SCALE: 1" = 50'	
				REVISION: 2	

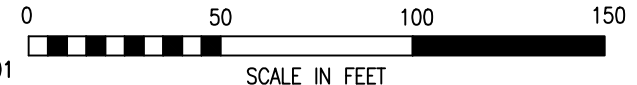
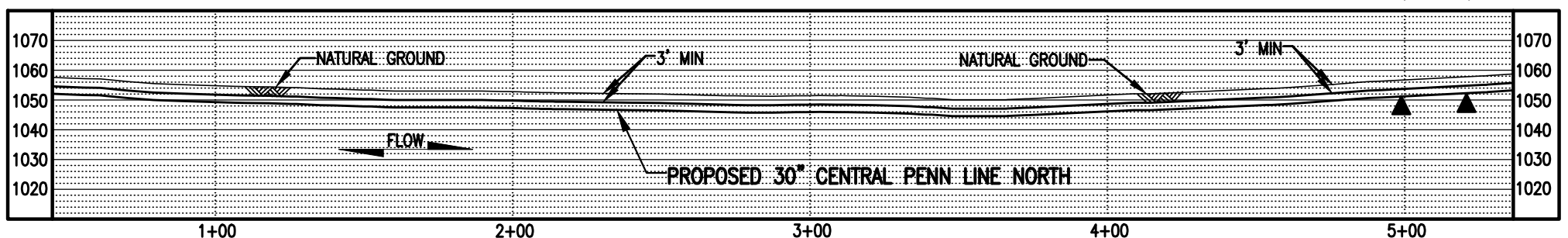


WETLAND DISTURBANCE:

WETLAND W-T95-19006A / W-T95-19006A-1	ACRE
TEMPORARY DISTURBANCE	0.0232
PERMANENT DISTURBANCE	0.0049
TOTAL DISTURBANCE	0.0281

- NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 3+00 SHOWN IS EQUAL TO STATION 1996+36 ON THE EROSION AND SEDIMENT CONTROL PLAN.

- SURVEY NOTES:**
- T.B.M. SURVEY CONTROL POINT - 13' LT. OF M.P. 37.88, ELEV. = 1062.58' (NAVD88).



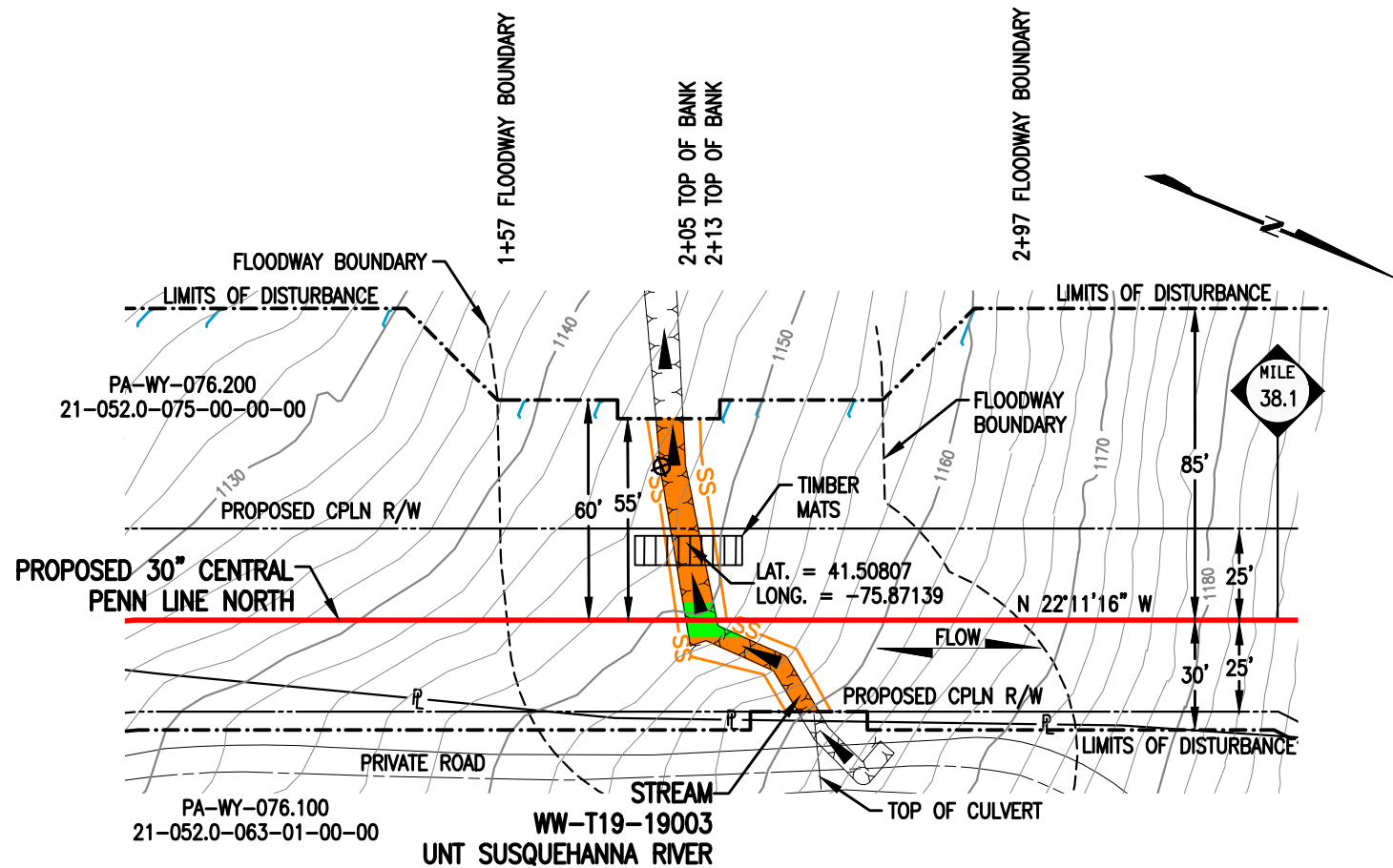
LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	TOP OF BANK
FOREIGN PIPELINE	WATERBODY	PERMANENT WETLAND IMPACT
WETLAND AREA	TREE LINE	TEMPORARY WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

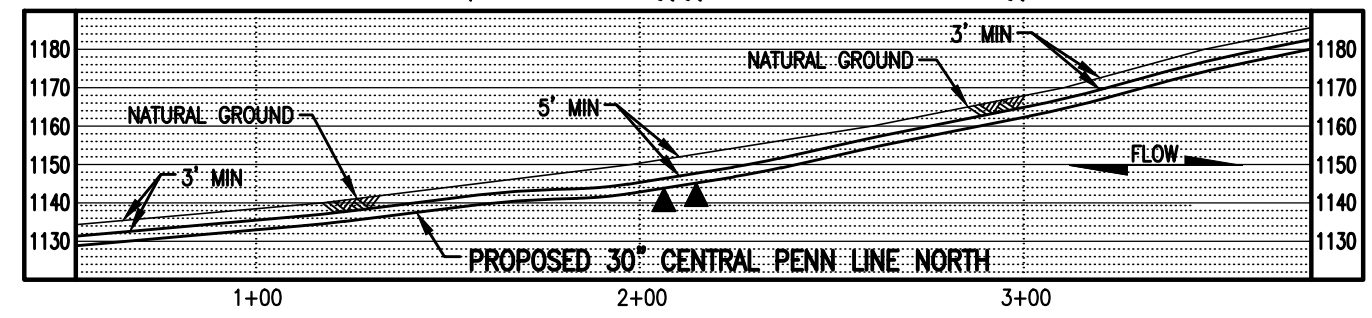
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DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSINGS W-T95-19006A, W-T95-19006A-1 © M.P. 37.85 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	08/11/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH

DRAWN BY: PGM	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/37.85-02	SHEET 1
WC: 1161481		10/18/2016	OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T19-19003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0124
PERMANENT STREAM DISTURBANCE	0.0022
TOTAL STREAM DISTURBANCE	0.0146
TEMPORARY FLOODWAY DISTURBANCE	0.2072
PERMANENT FLOODWAY DISTURBANCE	0.0299
TOTAL FLOODWAY DISTURBANCE	0.2371

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	8.40
STREAM LENGTH	96.15

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T19-19003 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2009+01 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 106' LT. OF M.P. 38.06, ELEV. = 1134.41' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/38.07-01

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - - LIMITS OF DISTURBANCE
- - - - - PROPOSED CPLN R/W
- P —— PROPERTY LINE
- F —— FOREIGN PIPELINE
- ▨ WETLAND AREA
- ▶ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE
- ▴ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- ▭ WATERBODY
- TREE LINE
- - - - - FLOODWAY BOUNDARY
- - - - - FEMA FLOODWAY BOUNDARY
- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- Y —— TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

**WOOD GROUP
MUSTANG, INC.**

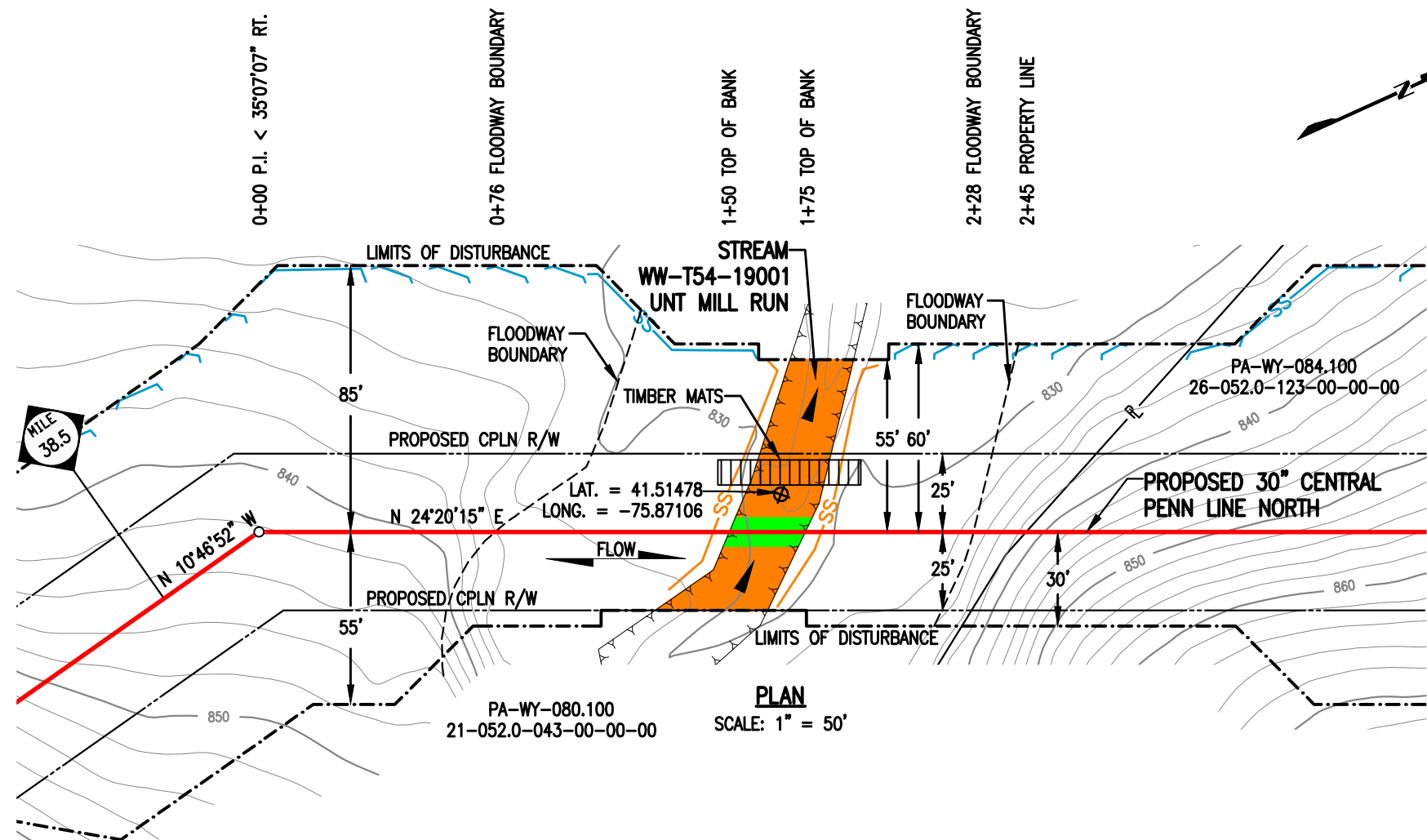
DRAWING NO. _____ REFERENCE TITLE _____

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T19-19003
© M.P. 38.07
OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: LL DATE: 01/03/15
 CHECKED BY: ML DATE: 04/13/15
 APPROVED BY: MJH DATE: 04/17/15
 W.O. NO.: 1161481

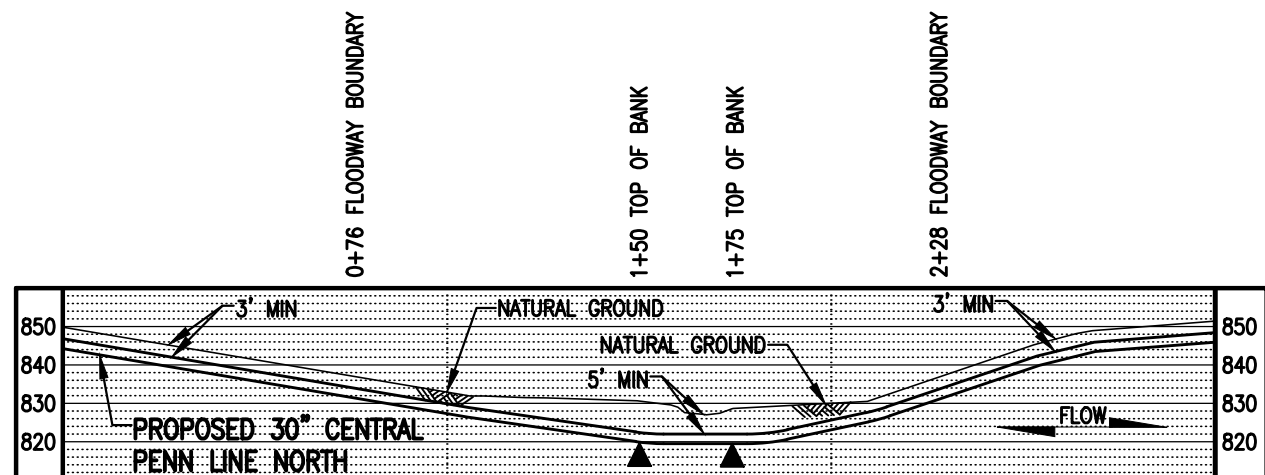
ISSUED FOR BID: _____ SCALE: 1" = 50'
 ISSUED FOR CONSTRUCTION: _____ REVISION: 2
 DRAWING NUMBER: **24-1601-70-09-A/38.07-02** SHEET 1
12:05pm 10/18/2016 K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_38.07-02.dwg OF 1



STREAM DISTURBANCE:

STREAM WW-T54-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0383
PERMANENT STREAM DISTURBANCE	0.0055
TOTAL STREAM DISTURBANCE	0.0438
TEMPORARY FLOODWAY DISTURBANCE	0.2059
PERMANENT FLOODWAY DISTURBANCE	0.0294
TOTAL FLOODWAY DISTURBANCE	0.2353

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	24.15
STREAM LENGTH	89.27

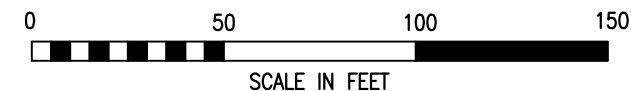


GENERAL NOTES:

1. STREAM CROSSING METHOD FOR STREAM WW-T54-19001 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2035+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT 6' RT. OF M.P. 38.53, ELEV. = 206.71' (NAVD88).



LEGEND

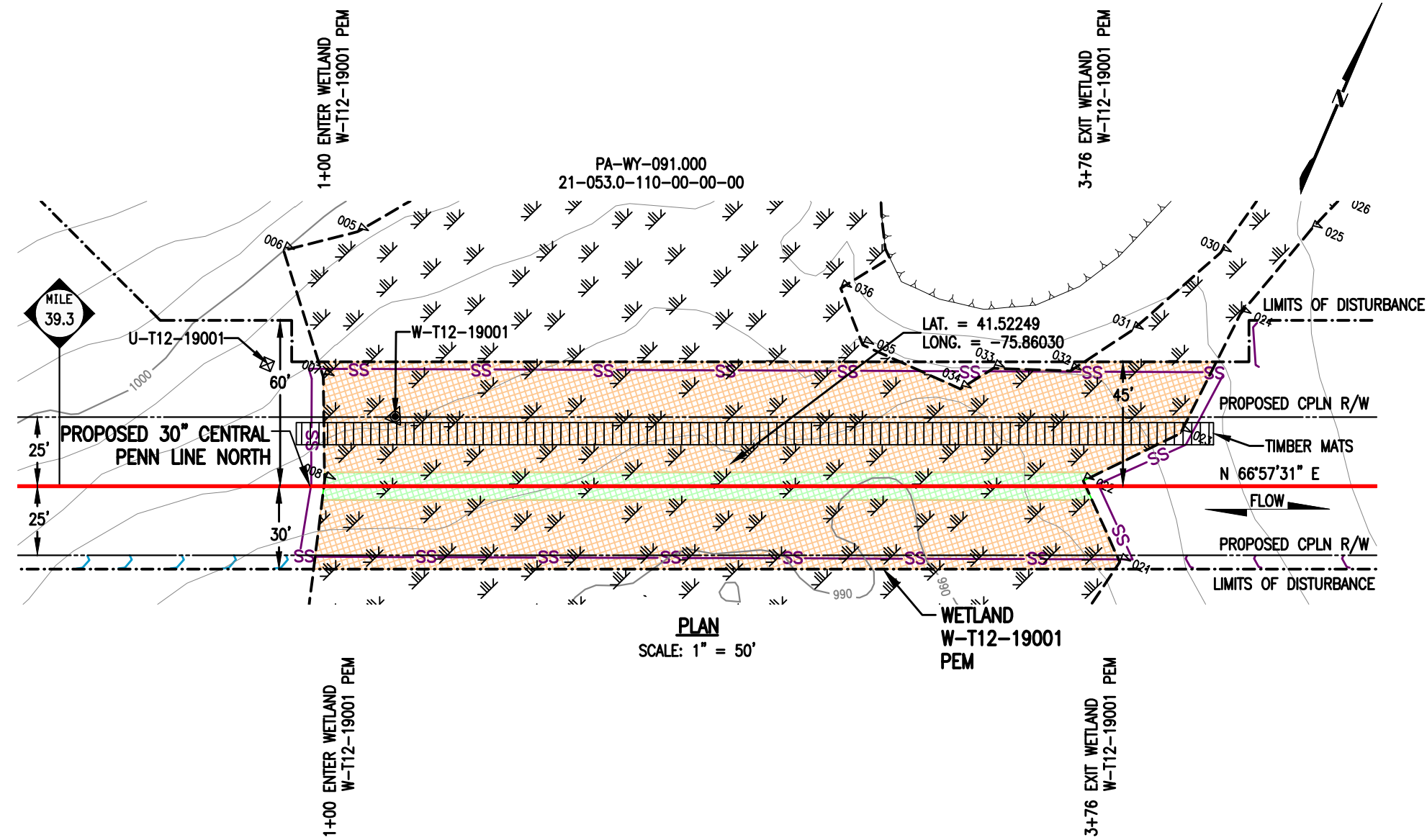
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED C/PLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

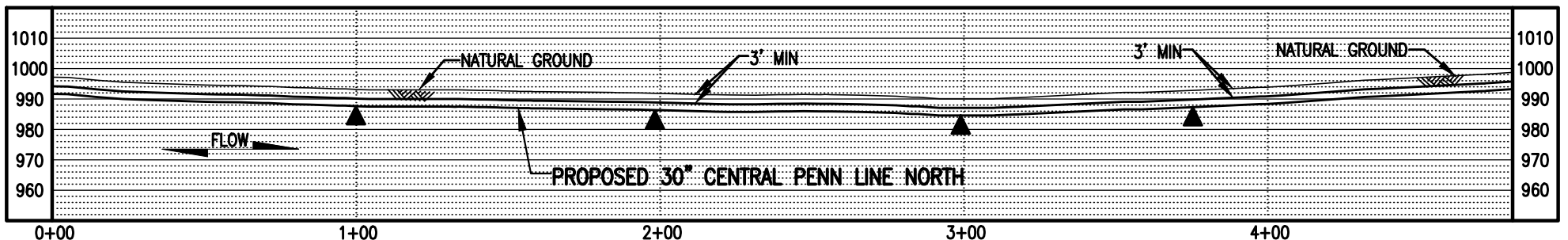
SS 12" SEDIMENT BARRIER
SS 18" SEDIMENT BARRIER
SS 24" SEDIMENT BARRIER
SS 32" SEDIMENT BARRIER
TOP OF BANK

DRAWING NO.		REFERENCE TITLE	
NO.		DATE	
0	10/13/16	MP	ISSUED FOR PADEP SUBMITTAL #2
W.O. NO.	CHK.	APP.	
1161481	CLR	MJH	
DRAWN BY: TL		DATE: 06/16/16	ISSUED FOR BID:
CHECKED BY: CLR		DATE: 07/06/16	ISSUED FOR CONSTRUCTION:
APPROVED BY: MJH		DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-09-A/38.53-01
IW: 1161481		10/18/2016	12:19pm
SCALE: 1" = 50'		SHEET 1 OF 1	

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T54-19001
● M.P. 38.53
OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

WETLAND DISTURBANCE:

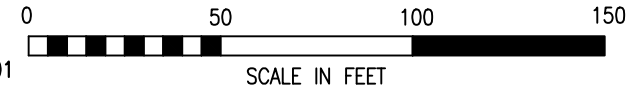
WETLAND W-T12-19001	ACRE
TEMPORARY DISTURBANCE	0.4415
PERMANENT DISTURBANCE	0.0635
TOTAL DISTURBANCE	0.5050

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 2076+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 58' LT. OF M.P. 39.36, ELEV. = 996.54' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-20-A/39.31-01

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - LIMITS OF DISTURBANCE
- - - - PROPOSED CPLN R/W
- P —— PROPERTY LINE
- F —— FOREIGN PIPELINE
- ▨ WETLAND AREA
- P —— EXISTING POWER LINE
- X —— EXISTING FENCE

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊙ WETLAND DATA POINT
- ⊗ UPLAND DATA POINT
- ☼ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- ~ TREE LINE
- - - - FLOODWAY BOUNDARY
- - - - FEMA FLOODWAY BOUNDARY

WOOD GROUP MUSTANG, INC.

- SS —— 12" SEDIMENT BARRIER
- SS —— 18" SEDIMENT BARRIER
- SS —— 24" SEDIMENT BARRIER
- SS —— 32" SEDIMENT BARRIER
- - - - TOP OF BANK
- ▨ PERMANENT WETLAND IMPACT
- ▨ TEMPORARY WETLAND IMPACT

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT
1	02/03/16	TL	ISSUED FOR INTERNAL USE
2	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2

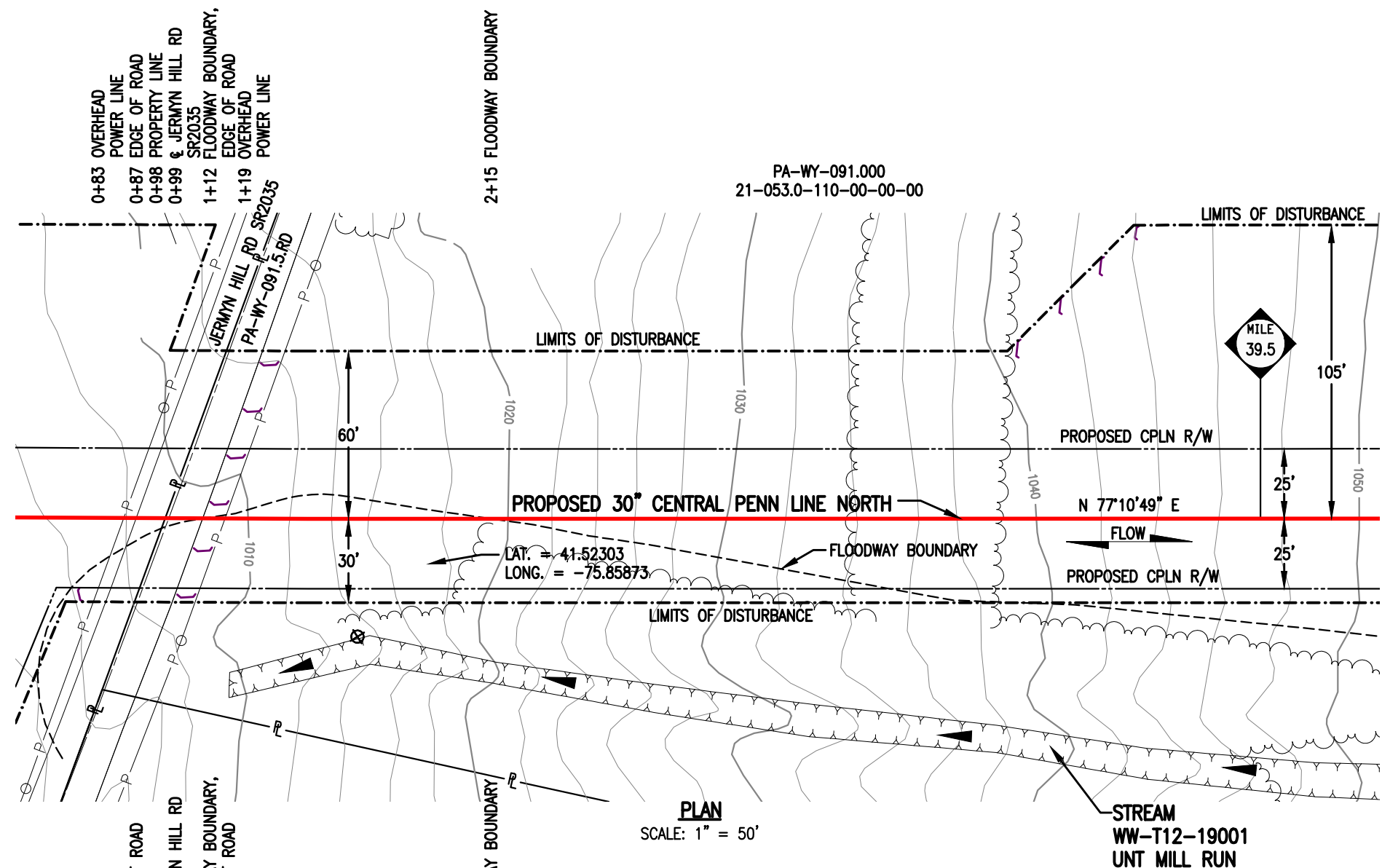
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T12-19001
© M.P. 39.35
OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

W.O. NO. 1161481
CHK. CLM
APP. MJH

DATE: 03/06/15
DATE: 04/13/15
DATE: 04/17/15

ISSUED FOR BID:
ISSUED FOR CONSTRUCTION:
DRAWING NUMBER: **24-1601-70-20-A/39.31-02**
10/18/2016
1:08pm
K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_39.31-02.dwg

SCALE: 1" = 50'
REVISION: 2
SHEET 1 OF 1



STREAM DISTURBANCE:

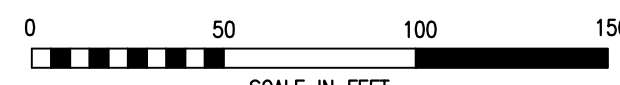
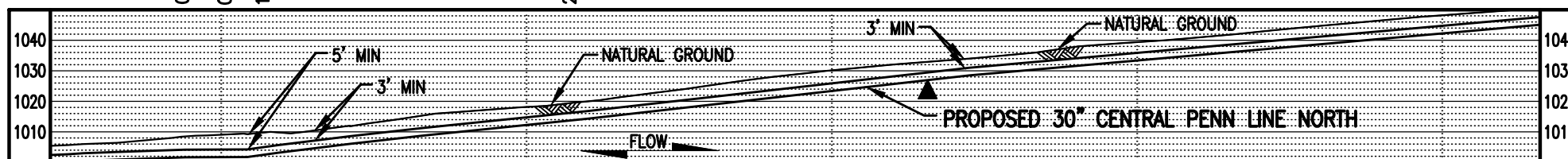
STREAM WW-T12-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.1423
PERMANENT FLOODWAY DISTURBANCE	0.0233
TOTAL FLOODWAY DISTURBANCE	0.1656

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE.
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 2082+70 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 14' RT. OF M.P. 39.42, ELEV. = 1005.76' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/39.44-01

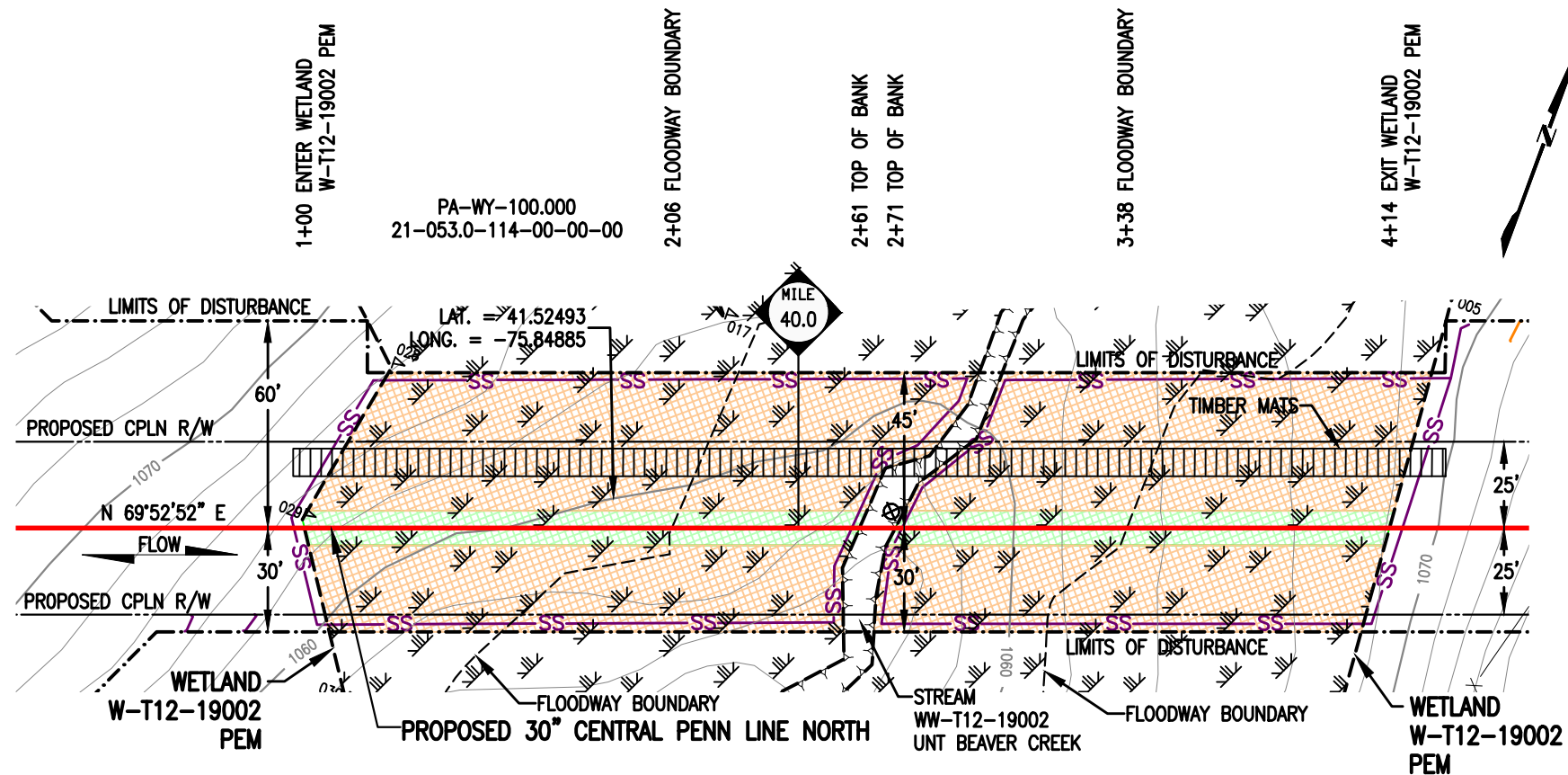
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND AREA
	EXISTING PIPELINES		WETLAND FLAGS
	EXISTING TGPL R/W		PHOTO DATA POINT
	LIMITS OF DISTURBANCE		WETLAND DATA POINT
	PROPOSED CPLN R/W		UPLAND DATA POINT
	PROPERTY LINE		WELL POINT
	FOREIGN PIPELINE		TRENCH PLUG
	WETLAND AREA		WATERBODY
	STREAM FLOW		TREE LINE
	EXISTING POWER LINE		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY

WOOD GROUP MUSTANG, INC.

	12" SEDIMENT BARRIER		PERMANENT STREAM IMPACT
	18" SEDIMENT BARRIER		TEMPORARY STREAM IMPACT
	24" SEDIMENT BARRIER		
	32" SEDIMENT BARRIER		
	TOP OF BANK		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T12-19001 © M.P. 39.44 OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA							
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 12/27/14	ISSUED FOR BID:	SCALE: 1" = 50'	
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15			
2	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	W.O. NUMBER: 1161481				
						DRAWING NUMBER: 24-1601-70-09-A/39.44-02 SHEET 1				OF 1	



PLAN
SCALE: 1" = 50'

WETLAND DISTURBANCE:

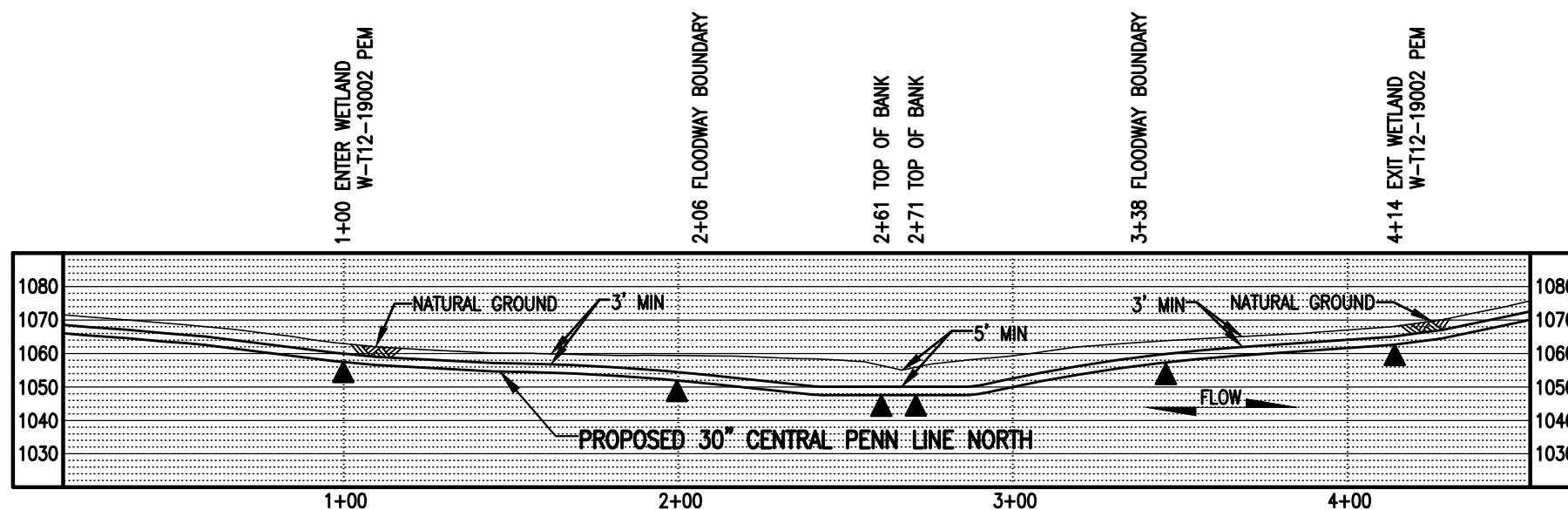
WETLAND W-T12-19002	ACRE
TEMPORARY DISTURBANCE	0.4445
PERMANENT DISTURBANCE	0.0697
TOTAL DISTURBANCE	0.5142

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 2110+57 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 14' LT. OF M.P. 39.92, ELEV. = 1092.68' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



THIS DRAWING SUPERCEDES 24-1601-70-20-A/39.99-01

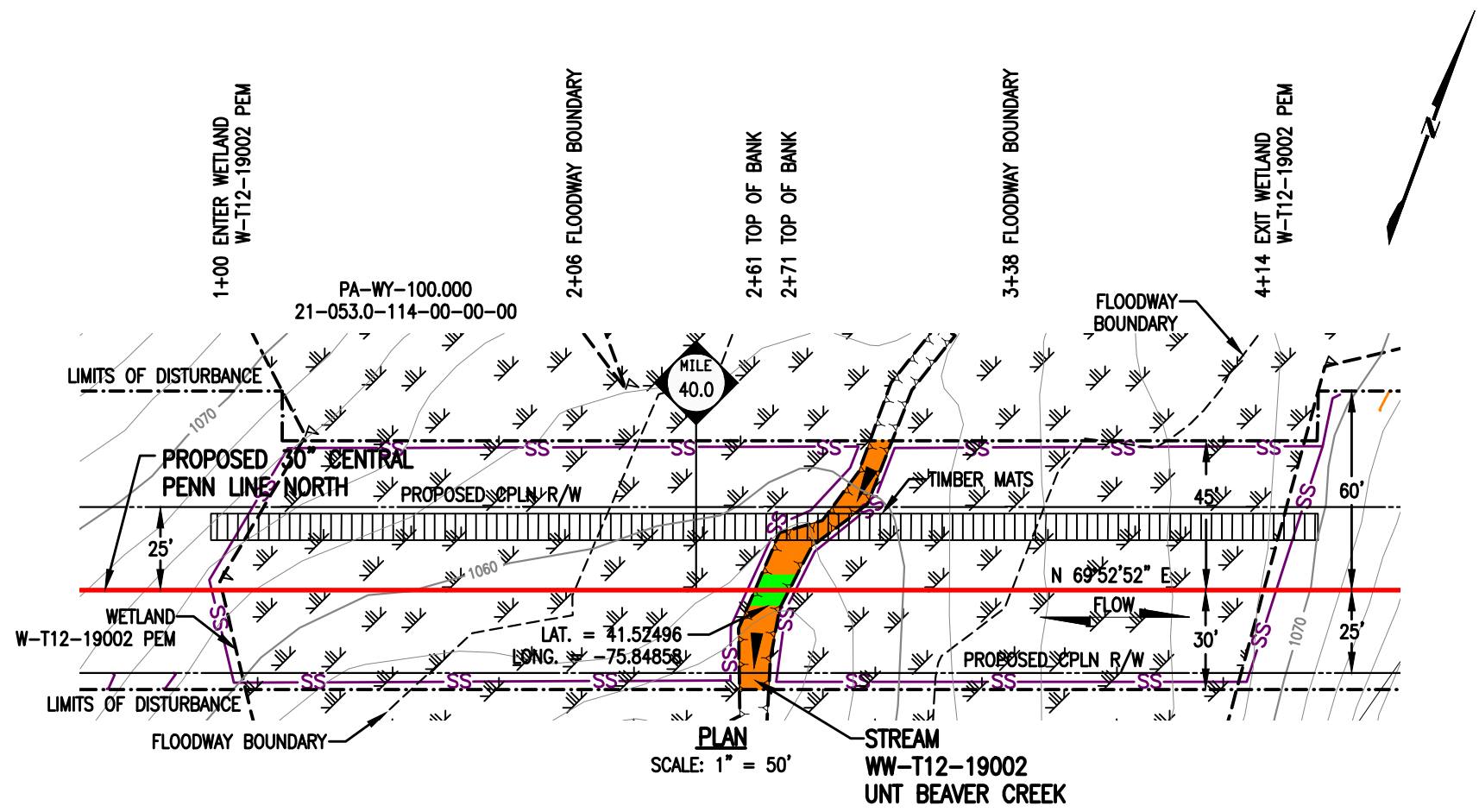
LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	TOP OF BANK
FOREIGN PIPELINE	WATERBODY	PERMANENT WETLAND IMPACT
WETLAND AREA	TREE LINE	TEMPORARY WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH
2	10/13/16	VC	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T12-19002
 © M.P. 39.99
OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWING NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: PGM	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
							CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
							APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/39.99-02	SHEET 1
							W.O. NUMBER: 1161481		10/13am 10/18/2016 djkudil	OF 1



STREAM DISTURBANCE:

STREAM WW-T12-19002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0142
PERMANENT STREAM DISTURBANCE	0.0024
TOTAL STREAM DISTURBANCE	0.0166
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

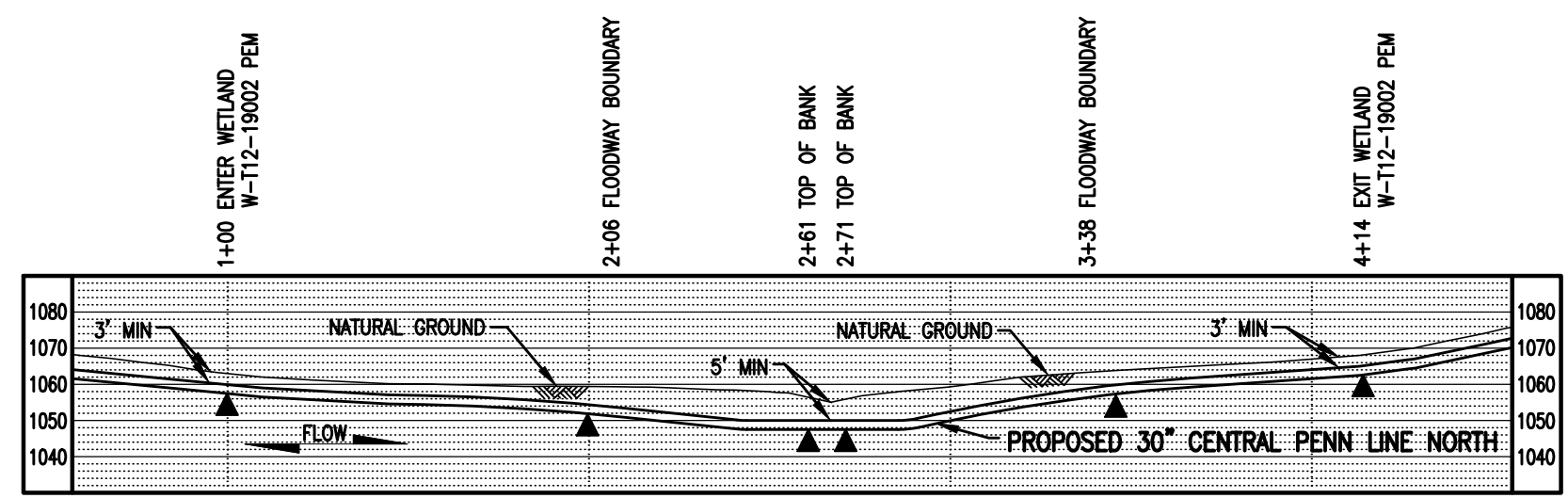
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	10.32
STREAM LENGTH	89.31

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2110+57 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 223' LT. OF M.P. 39.95, ELEV. = 1094.46' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/40.00-01



LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- PL — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

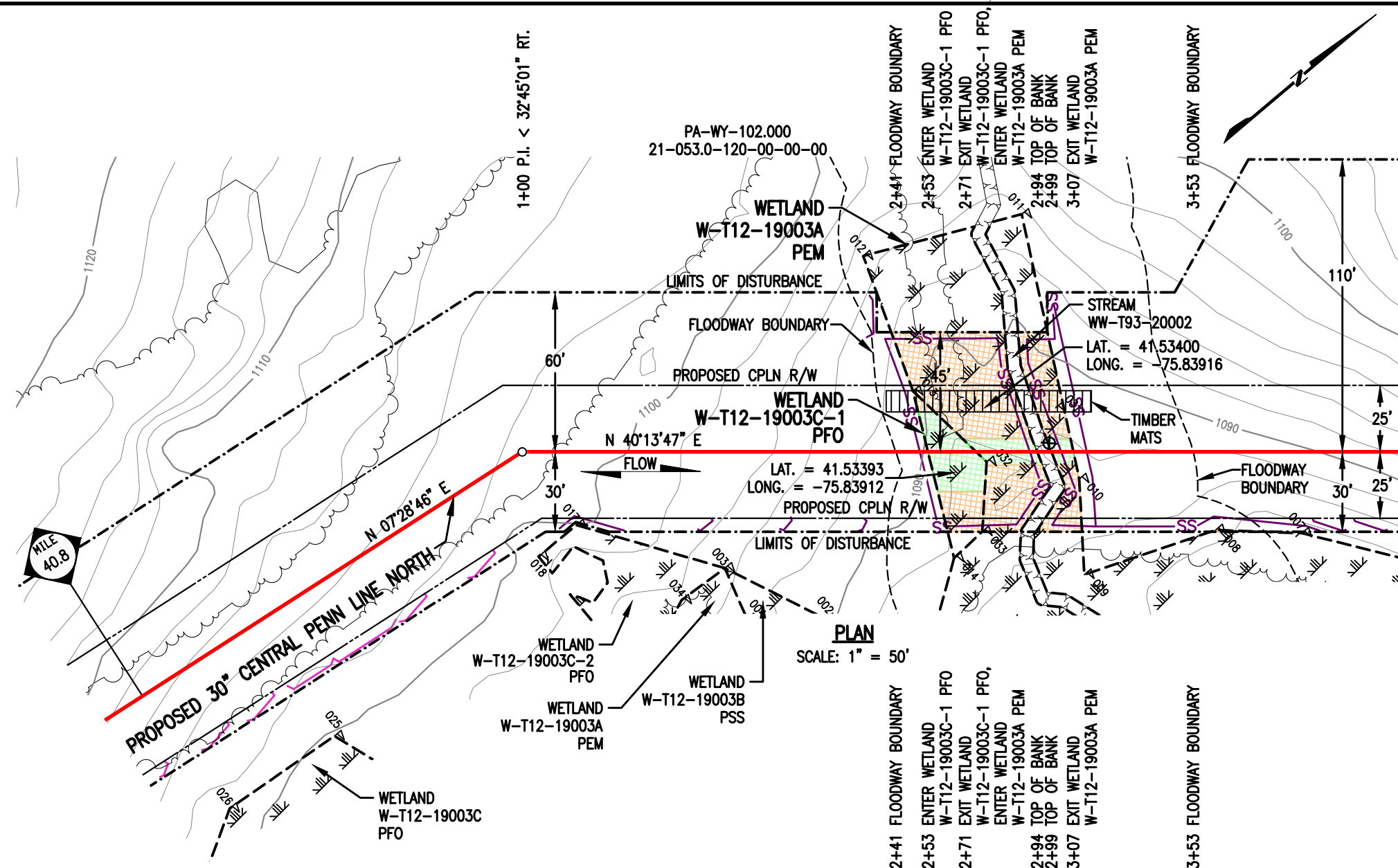
WOOD GROUP MUSTANG, INC.

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		NO.		DATE		BY		REVISION DESCRIPTION		W.O. NO.		CHK.		APP.		DRAWN BY:		DATE:		ISSUED FOR BID:		SCALE:	
				0		08/11/15		AT		ISSUED FOR PADEP 105 PERMIT		1161481		CLR		MJH		LL		12/26/14		SCALE: 1" = 50'			
				1		10/13/16		VC		ISSUED FOR PADEP SUBMITTAL #2		1161481		CLR		MJH		ML		04/13/15		ISSUED FOR CONSTRUCTION:		REVISION: 1	
																		APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-09-A/40.00-02		SHEET 1 OF 1	
																		WC: 1161481				10/18/2016		1161481	

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T12-19002
© M.P. 40.00
OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA



WETLAND DISTURBANCE:

WETLAND W-T12-19003C-1	ACRE
TEMPORARY DISTURBANCE	0.0058
PERMANENT DISTURBANCE	0.0109
TOTAL DISTURBANCE	0.0167

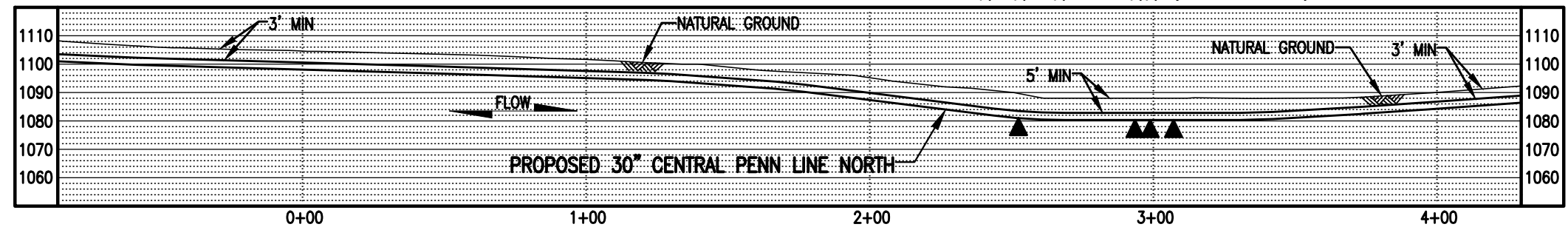
WETLAND W-T12-19003A	ACRE
TEMPORARY DISTURBANCE	0.0614
PERMANENT DISTURBANCE	0.0072
TOTAL DISTURBANCE	0.0686

NOTES:

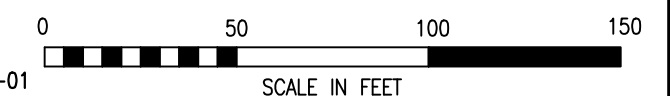
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 2+00 SHOWN IS EQUAL TO STATION 2156+93 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 60' RT. OF M.P. 40.94, ELEV. = 1099.28' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

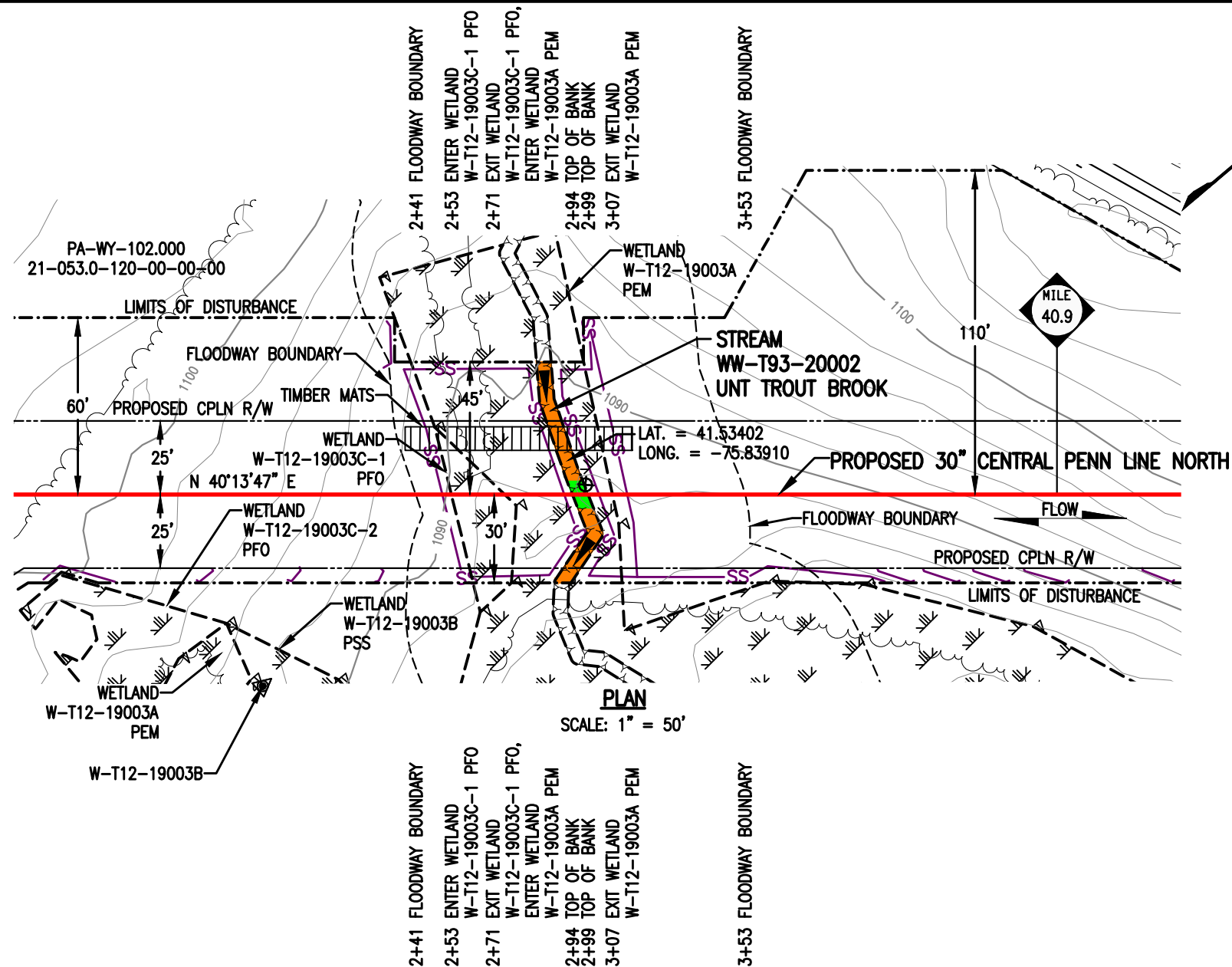


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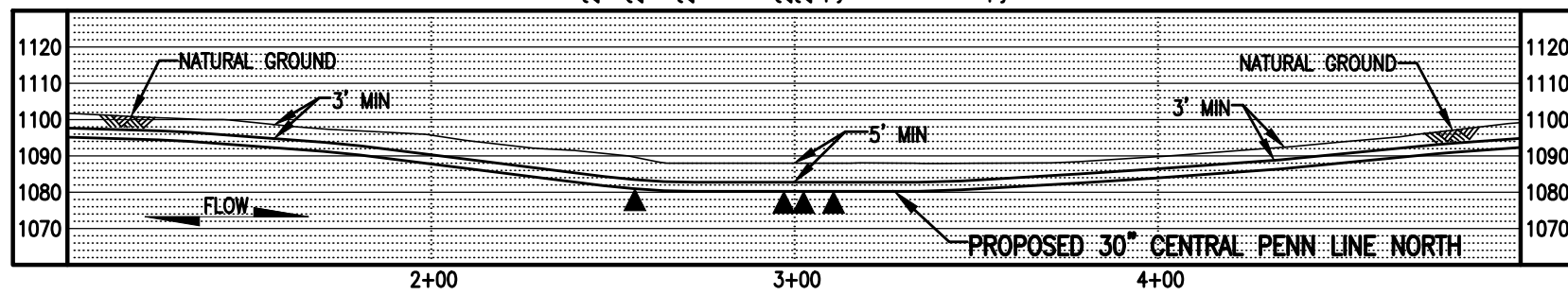
LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	TOP OF BANK
FOREIGN PIPELINE	WATERBODY	PERMANENT WETLAND IMPACT
WETLAND AREA	TREE LINE	TEMPORARY WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSINGS W-T12-19003C-1 & W-T12-19003A @ M.P. 40.87 OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	10/13/16	VC	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: AO		DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/40.84-02	SHEET 1	
W.O. NUMBER: 1161481		10/18/2016		OF 1	



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T93-20002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0081
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0093
TEMPORARY FLOODWAY DISTURBANCE	0.1040
PERMANENT FLOODWAY DISTURBANCE	0.0131
TOTAL FLOODWAY DISTURBANCE	0.1171

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.36
STREAM LENGTH	81.49

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 2156+93 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 60' RT. OF M.P. 40.94, ELEV. = 1099.28' (NAVD88).

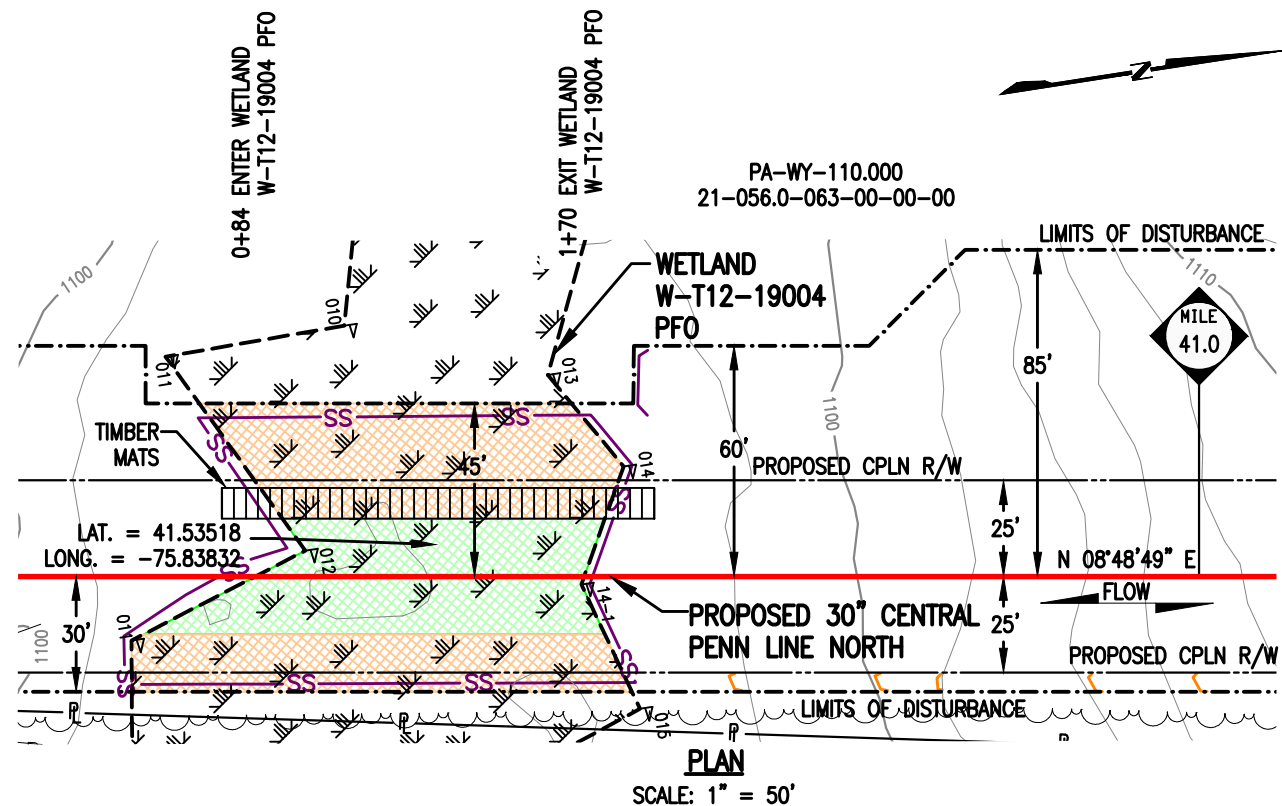


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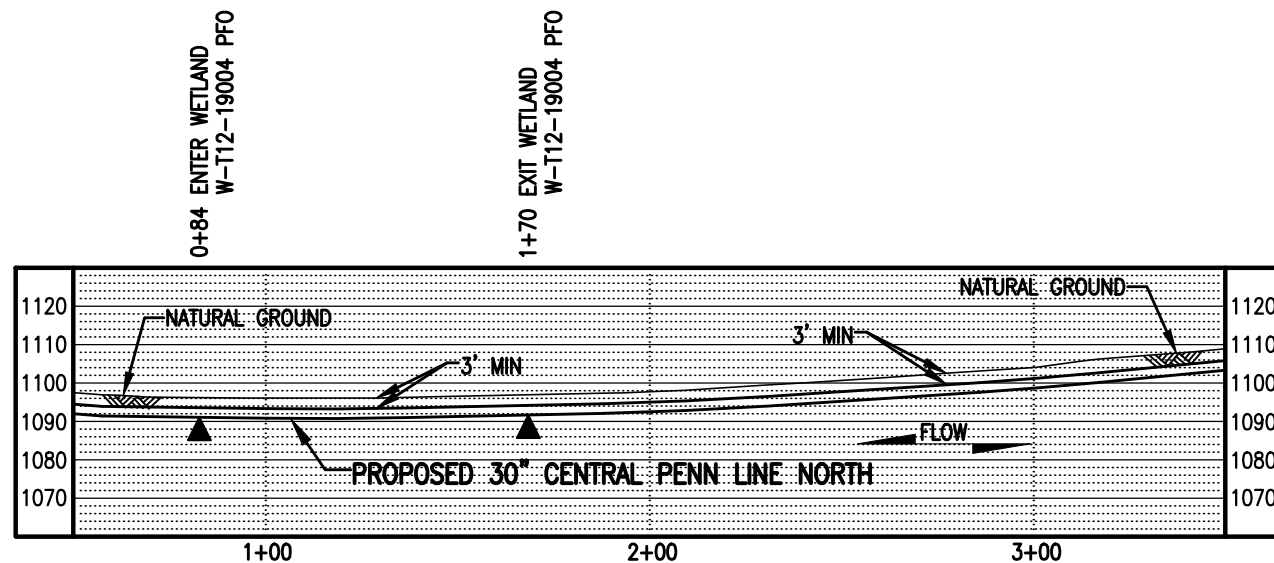
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T93-20002 © M.P. 40.87 OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	10/13/16	VC	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 12/26/14	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/40.87-02	SHEET 1	
WC: 1161481			10/18/2016	OF 1	



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

WETLAND DISTURBANCE:

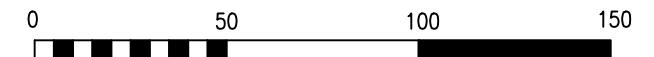
WETLAND W-T12-19004	ACRE
TEMPORARY DISTURBANCE	0.1089
PERMANENT DISTURBANCE	0.0626
TOTAL DISTURBANCE	0.1715

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 2162+51 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 60' RT. OF M.P. 40.94, ELEV. = 1099.28' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-20-A/40.96-01

SCALE IN FEET

LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	12" SEDIMENT BARRIER
EXISTING PIPELINES	PHOTO DATA POINT	18" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	24" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	32" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	TOP OF BANK
PROPERTY LINE	TRENCH PLUG	PERMANENT WETLAND IMPACT
FOREIGN PIPELINE	WATERBODY	TEMPORARY WETLAND IMPACT
WETLAND AREA	TREE LINE	
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

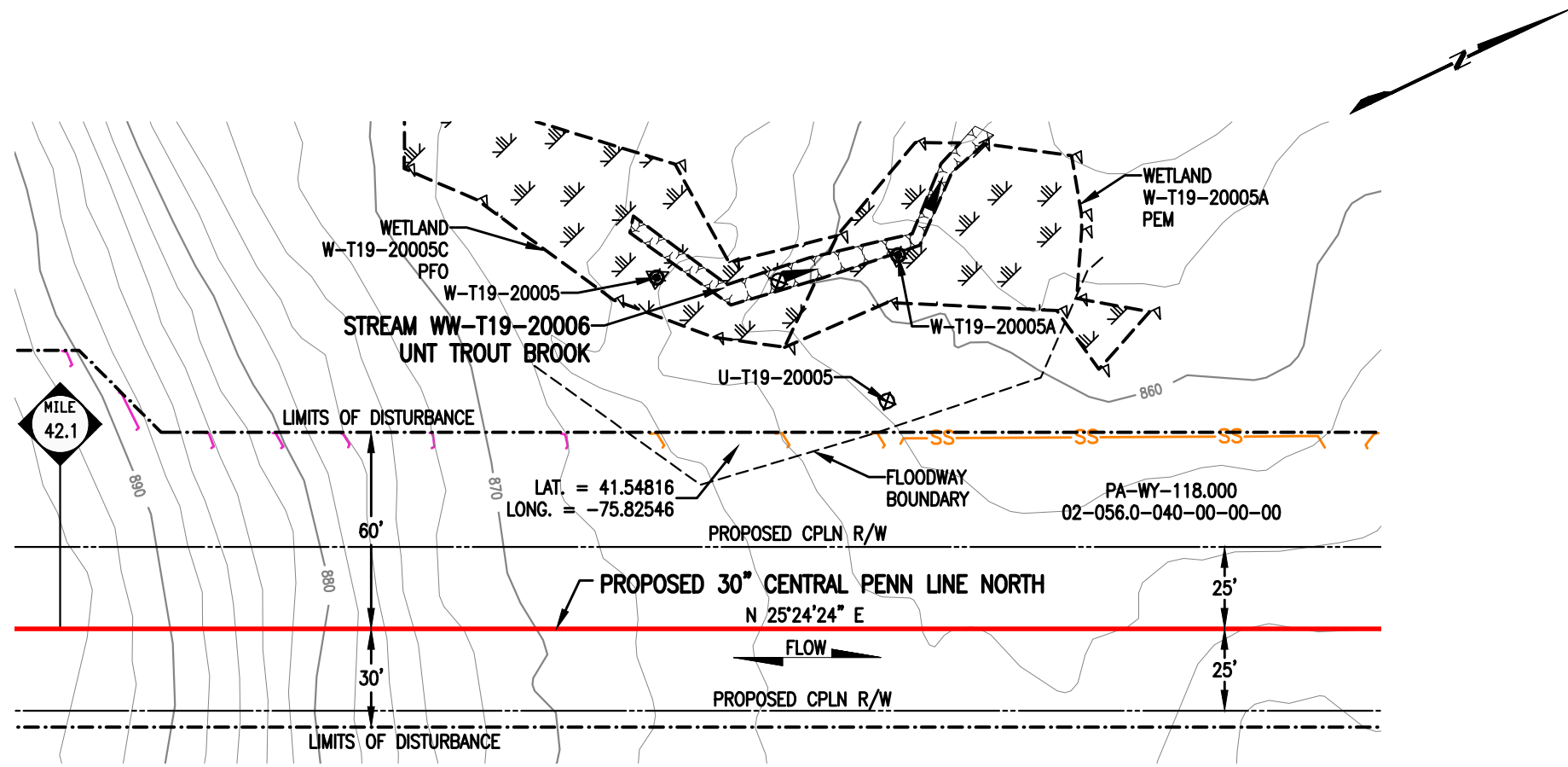


DRAWING NO.		REFERENCE TITLE		DRAWN BY: AO		DATE: 03/06/15		ISSUED FOR BID:		SCALE: 1" = 50'	
				CHECKED BY: ML		DATE: 04/13/15		ISSUED FOR CONSTRUCTION:		REVISION: 1	
				APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-20-A/40.96-02		SHEET 1 OF 1	
NO.		DATE		BY		REVISION DESCRIPTION		W.O. NO.		CHK.	
0		08/11/15		AT		ISSUED FOR PADEP 105 PERMIT		1161481		CLR MJH	
1		10/13/16		MA		ISSUED FOR PADEP SUBMITTAL #2		1161481		CLR MJH	
WO:		1161481									

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T12-19004
© M.P. 40.96
OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA



SCALE: 1" = 50'	REVISION: 1	SHEET 1 OF 1
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PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T19-20006	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0141
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0141

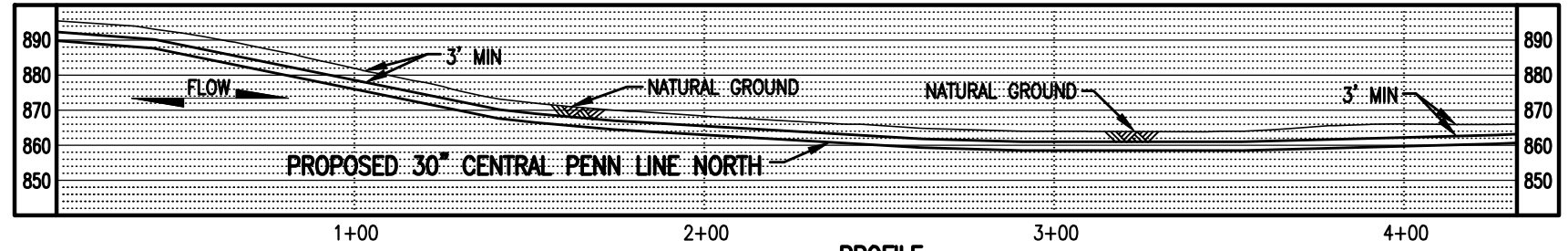
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE.
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2223+59 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. IRON ROD - 101' LT. OF M.P. 42.15, ELEV. = 858.8' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

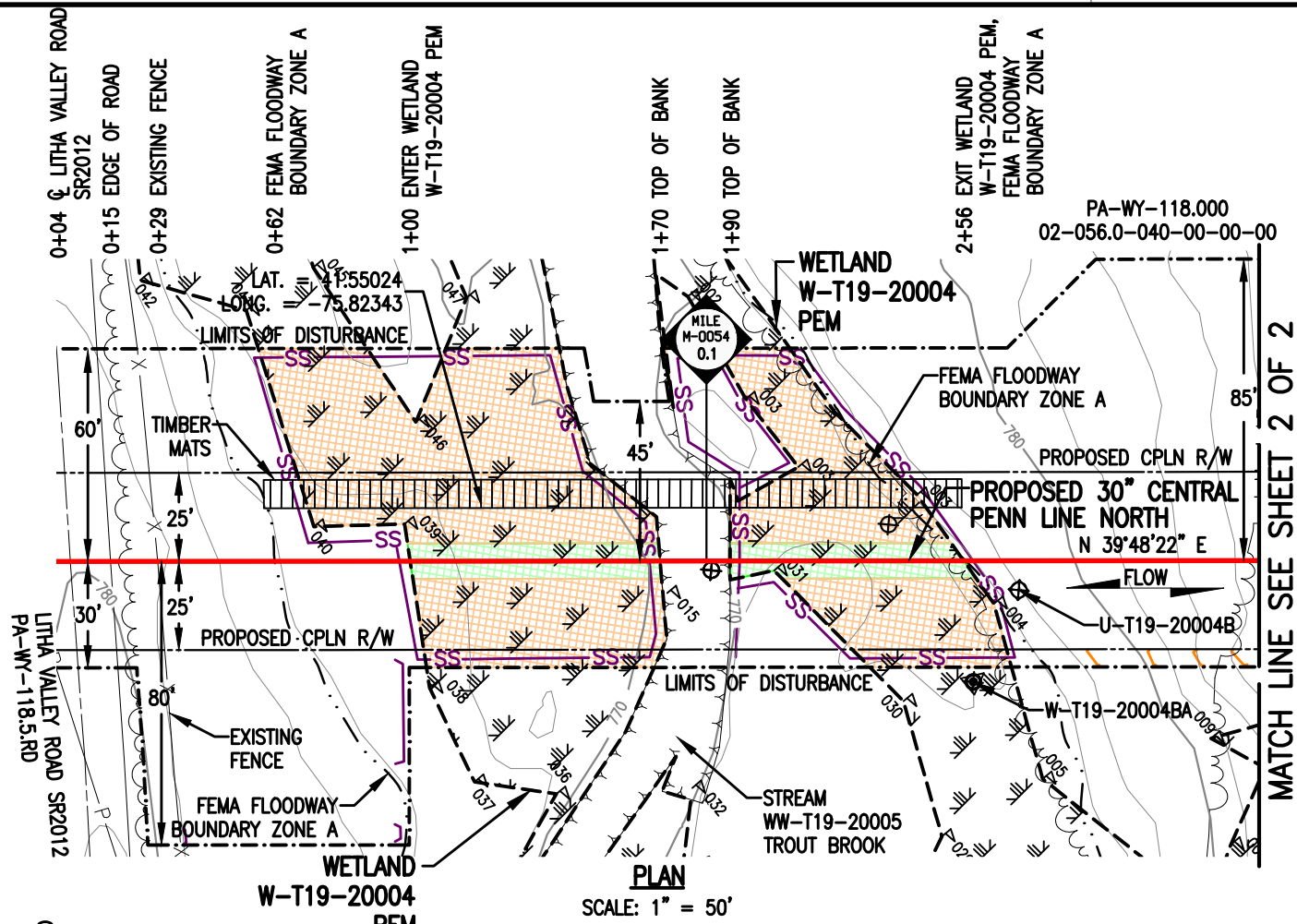


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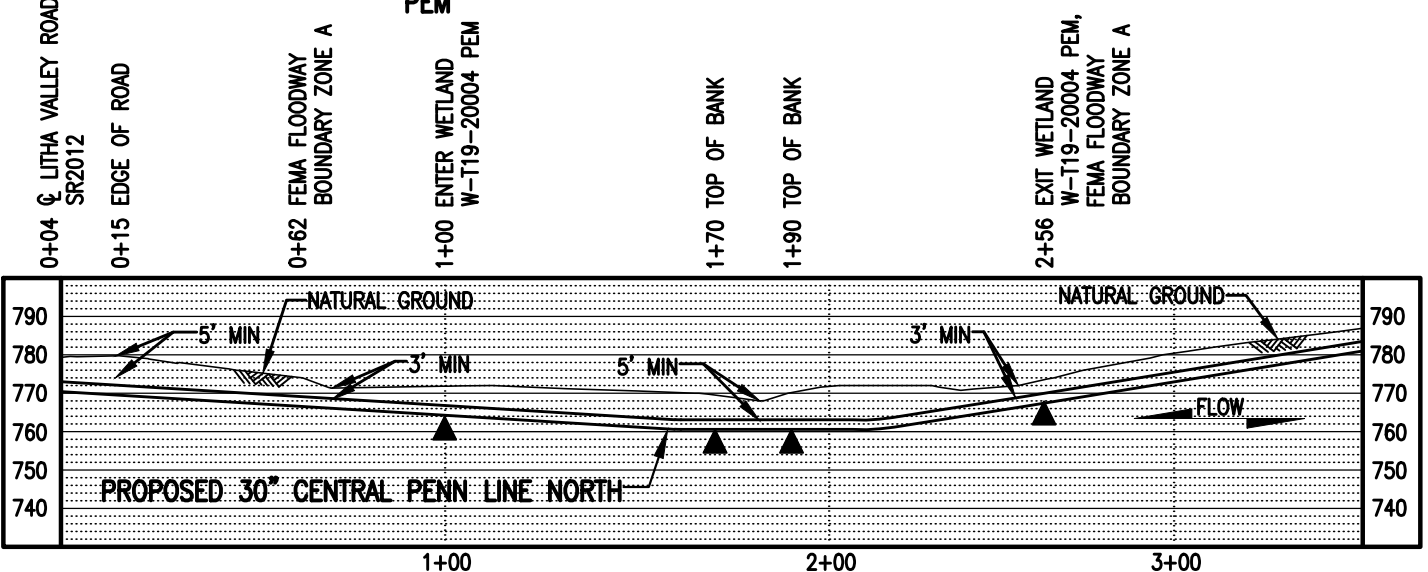
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T19-20006 © M.P. 42.14 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 12/27/14	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/42.13-02	SHEET 1	
W.O. NUMBER: 1161481		DATE: 9/20/2016	FILE: K:\103646-CPLN\Maping\Waterbodies\Revised 105\24-1601-70-09-A_42.13-02.dwg	OF 1	



MATCH LINE SEE SHEET 2 OF 2



WETLAND DISTURBANCE:

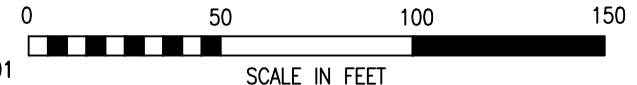
WETLAND W-T19-20004 / W-T19-20004-1 / W-T19-20004-2	ACRE
TEMPORARY DISTURBANCE	0.3520
PERMANENT DISTURBANCE	0.0455
* WETLAND W-T19-2004-2 DOES NOT HAVE PERMANENT IMPACTS.	

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0054 STATION 4+44 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 6' RT. OF M-0054 M.P. 0.07, ELEV. = 779.17' (NAVD88).

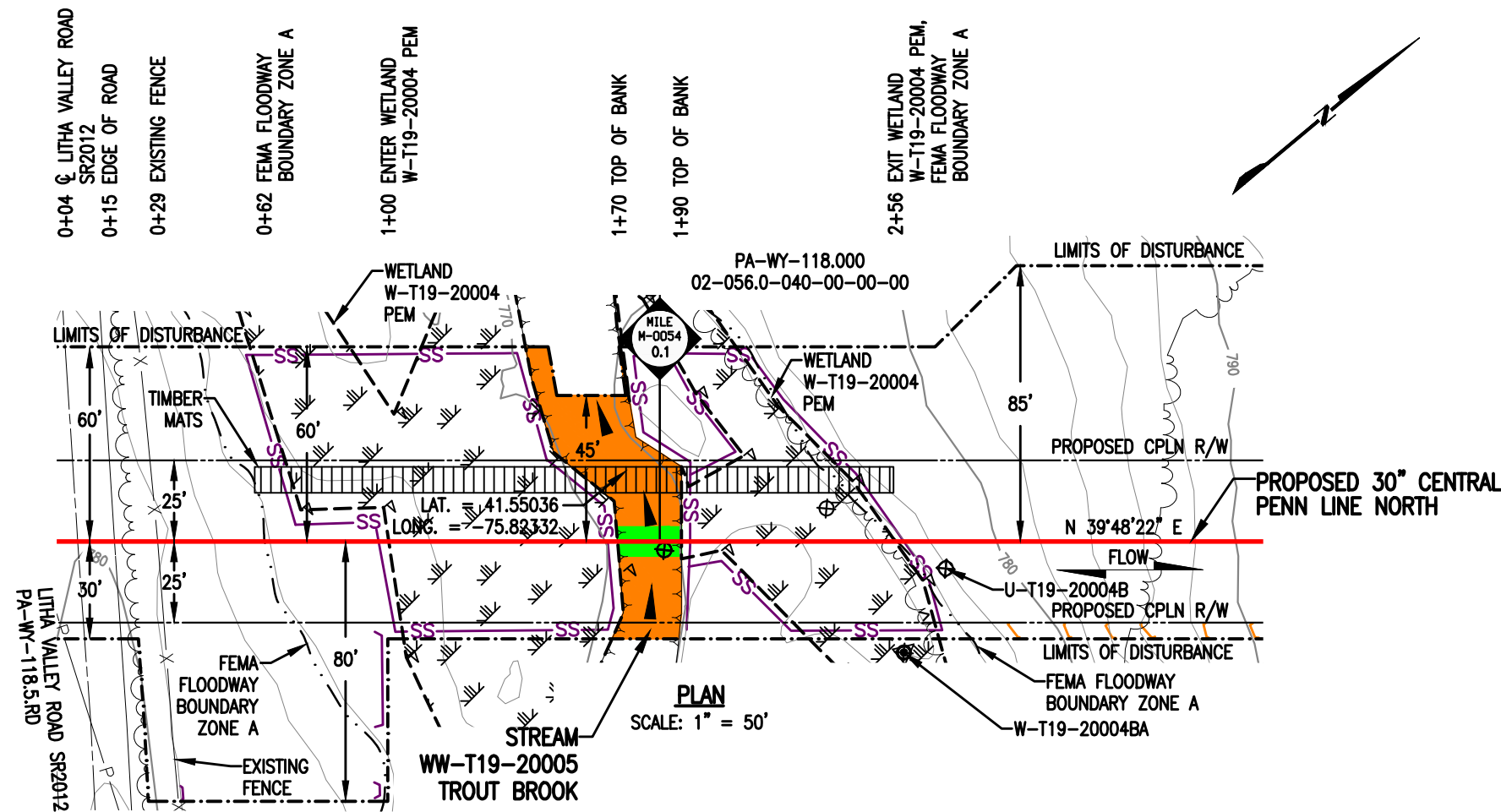


THIS DRAWING SUPERCEDES 24-1601-70-20-A/M-0054-0.08-01

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT WETLAND IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY WETLAND IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		12" SEDIMENT BARRIER
	FOREIGN PIPELINE		WATERBODY		FLOODWAY BOUNDARY
	WETLAND AREA		TREE LINE		FEMA FLOODWAY BOUNDARY
	EXISTING POWER LINE		FLOODWAY BOUNDARY		TOP OF BANK
	EXISTING FENCE				

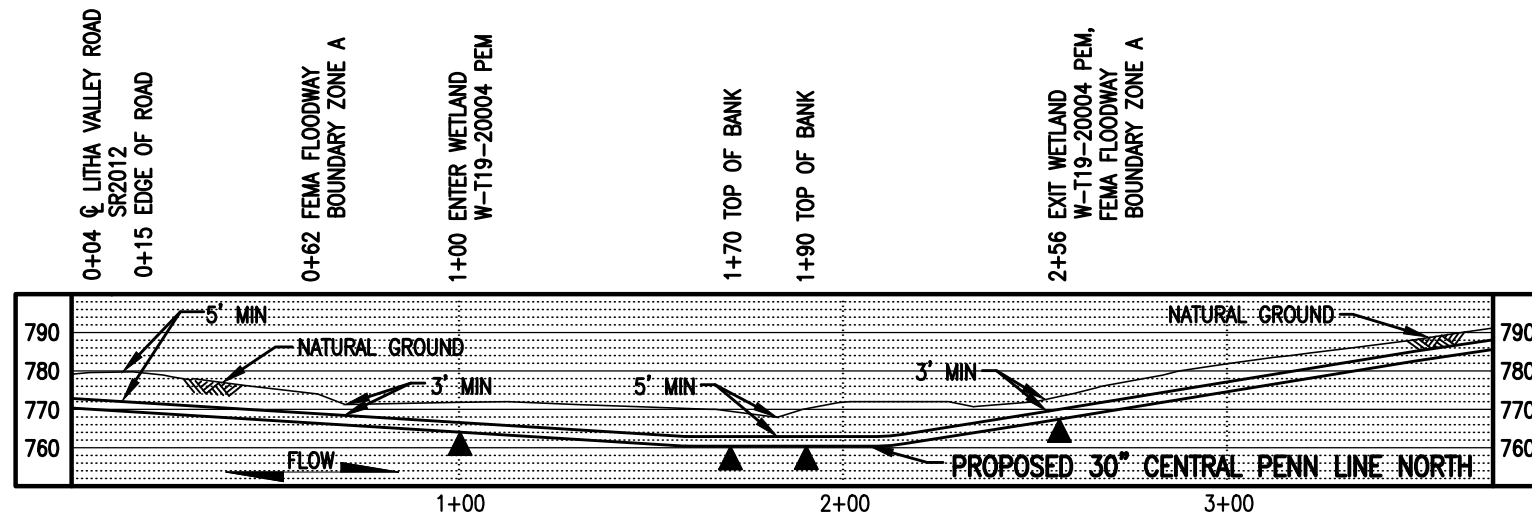
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSINGS W-T19-20004/ W-T19-20004-1/ W-T19-20004-2 @ M-0054 M.P. 0.09 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: COM		DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/M-0054-0.08-02	SHEET 1	
IWO: 1161481		10/18/2016	10:22am	OF 2	



STREAM DISTURBANCE:

STREAM WW-T19-20005	ACRE
TEMPORARY STREAM DISTURBANCE	0.0382
PERMANENT STREAM DISTURBANCE	0.0045
TOTAL STREAM DISTURBANCE	0.0427
TEMPORARY FLOODWAY DISTURBANCE	0.0993
PERMANENT FLOODWAY DISTURBANCE	0.0092
TOTAL FLOODWAY DISTURBANCE	0.1085

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	19.71
STREAM LENGTH	85.85



GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 1+00 SHOWN IS EQUAL TO M-0054 STATION 4+44 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 6' RT. OF M-0054 M.P. 0.07, ELEV. = 779.17' (NAVD88).

THIS DRAWING SUPERCEDES 24-1601-70-09-A/M-0054-0.10-01



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

DRAWING NO.	REFERENCE TITLE	TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T19-20005 ● M-0054 M.P. 0.10 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 01/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/M-0054-0.10-02	SHEET 1
							WC: 1161481		10/18/2016	OF 1

WETLAND DISTURBANCE:

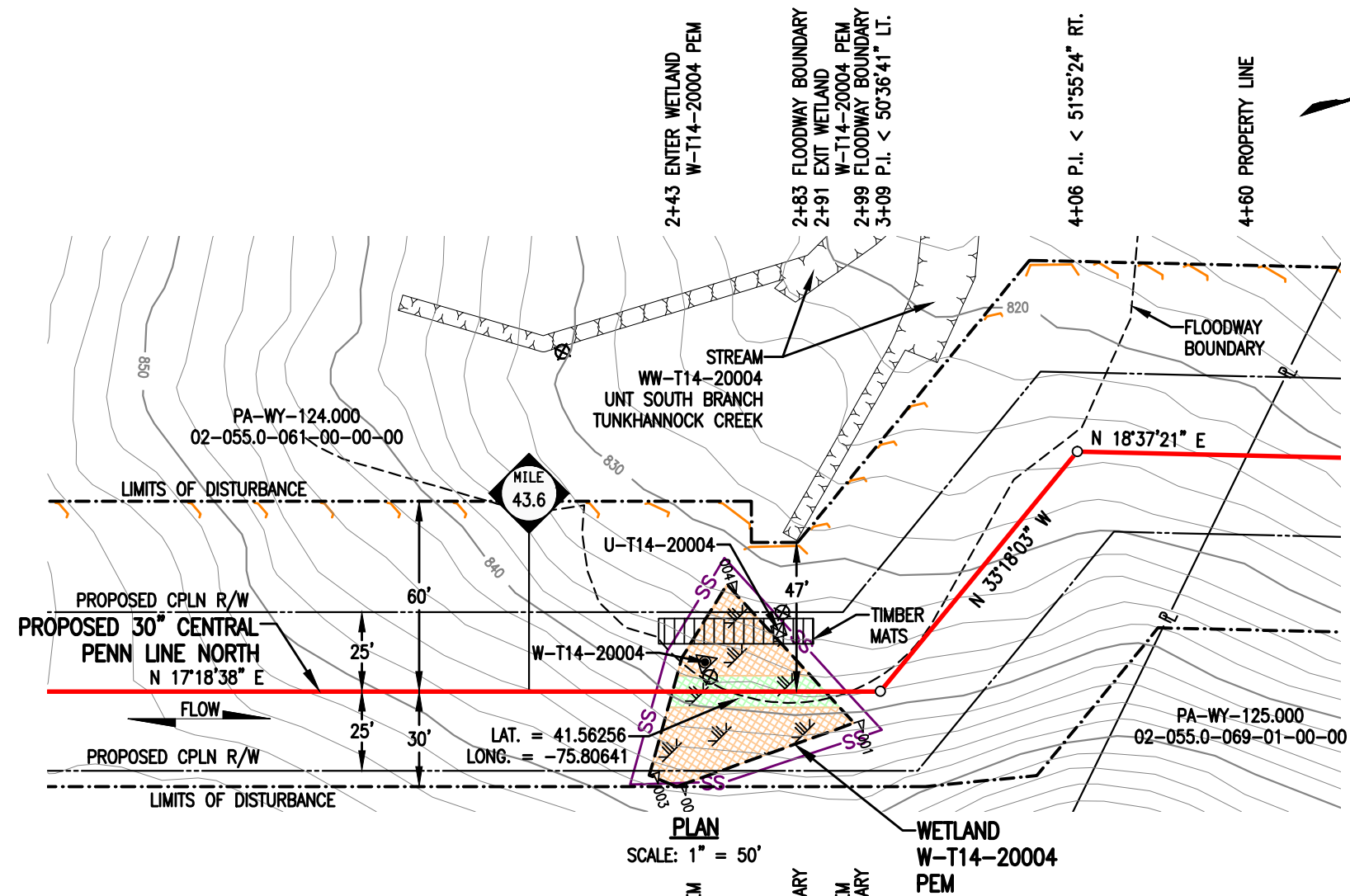
WETLAND W-T14-20004	ACRE
TEMPORARY DISTURBANCE	0.0366
PERMANENT DISTURBANCE	0.0110
TOTAL DISTURBANCE	0.0476

NOTES:

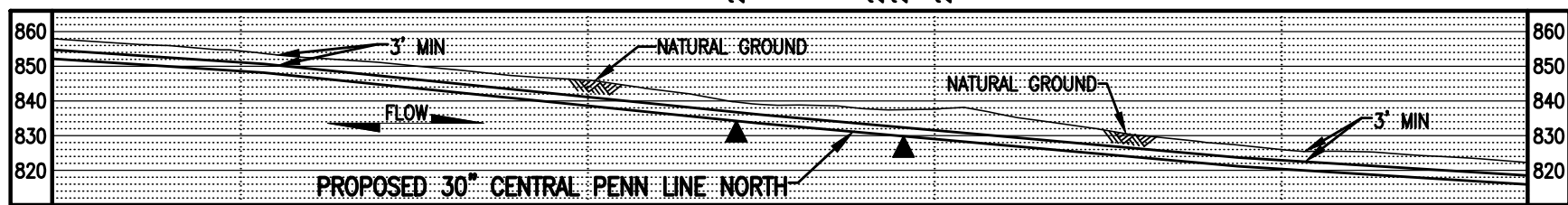
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 2301+10 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

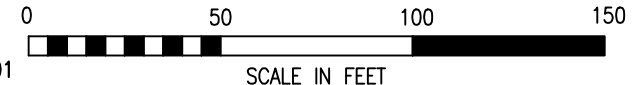
- T.B.M. SURVEY CONTROL POINT - 83' RT. OF M.P. 43.66, ELEV. = 836.24' (NAVD88).



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



THIS DRAWING SUPERCEDES 24-1601-70-20-A/43.61-01

LEGEND

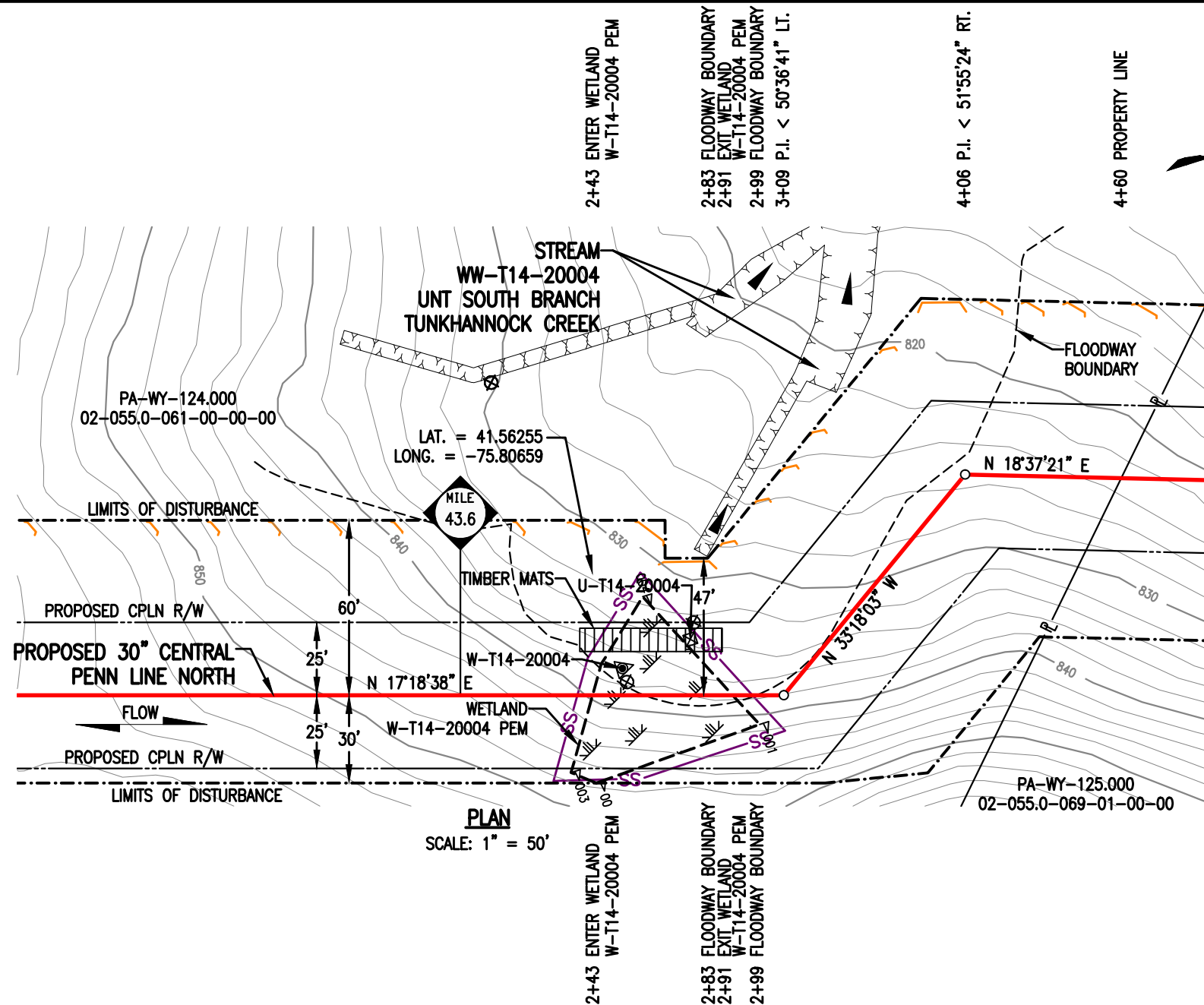
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - - LIMITS OF DISTURBANCE
- - - - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- P — EXISTING POWER LINE
- X — EXISTING FENCE

- WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- WELL POINT
- TRENCH PLUG
- WATERBODY
- TREE LINE
- - - - - FLOODWAY BOUNDARY
- - - - - FEMA FLOODWAY BOUNDARY

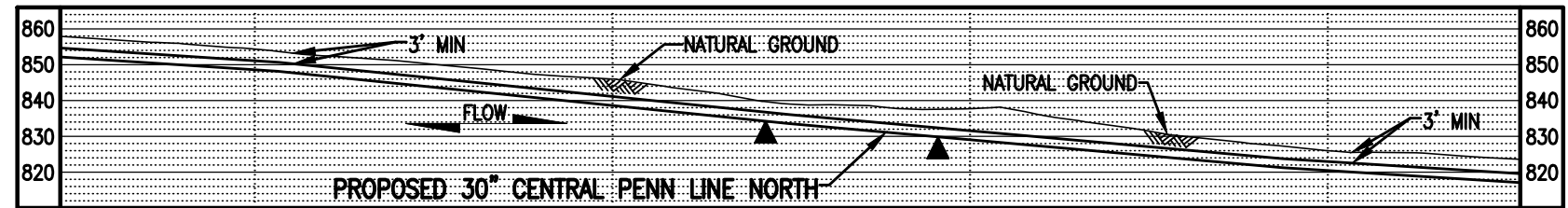
WOOD GROUP MUSTANG, INC.

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- - - - - TOP OF BANK
- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T14-20004 © M.P. 43.61 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA			
NO.		DATE					
BY		REVISION DESCRIPTION		DRAWN BY: COM		DATE: 03/06/15	
W.O. NO.		CHK.		APPROVED BY: ML		DATE: 04/13/15	
APP.		ISSUED FOR PADEP 105 PERMIT		ISSUED FOR CONSTRUCTION:		REVISION: 2	
1		ISSUED FOR INTERNAL USE		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-20-A/43.61-02 SHEET 1	
2		ISSUED FOR PADEP SUBMITTAL #2		APPROVED BY: MJH		OF 1	
1161481		1161481		1161481		10-42am 9/20/2016 eIescob K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_43.61-02.dwg	



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T14-20004	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.2006
PERMANENT FLOODWAY DISTURBANCE	0.0050
TOTAL FLOODWAY DISTURBANCE	0.2056

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE.
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2301+10 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 83' RT. OF M.P. 43.66, ELEV. = 836.24' (NAVD88).

THIS DRAWING SUPERCEDES 24-1601-70-09-A/43.63-01



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

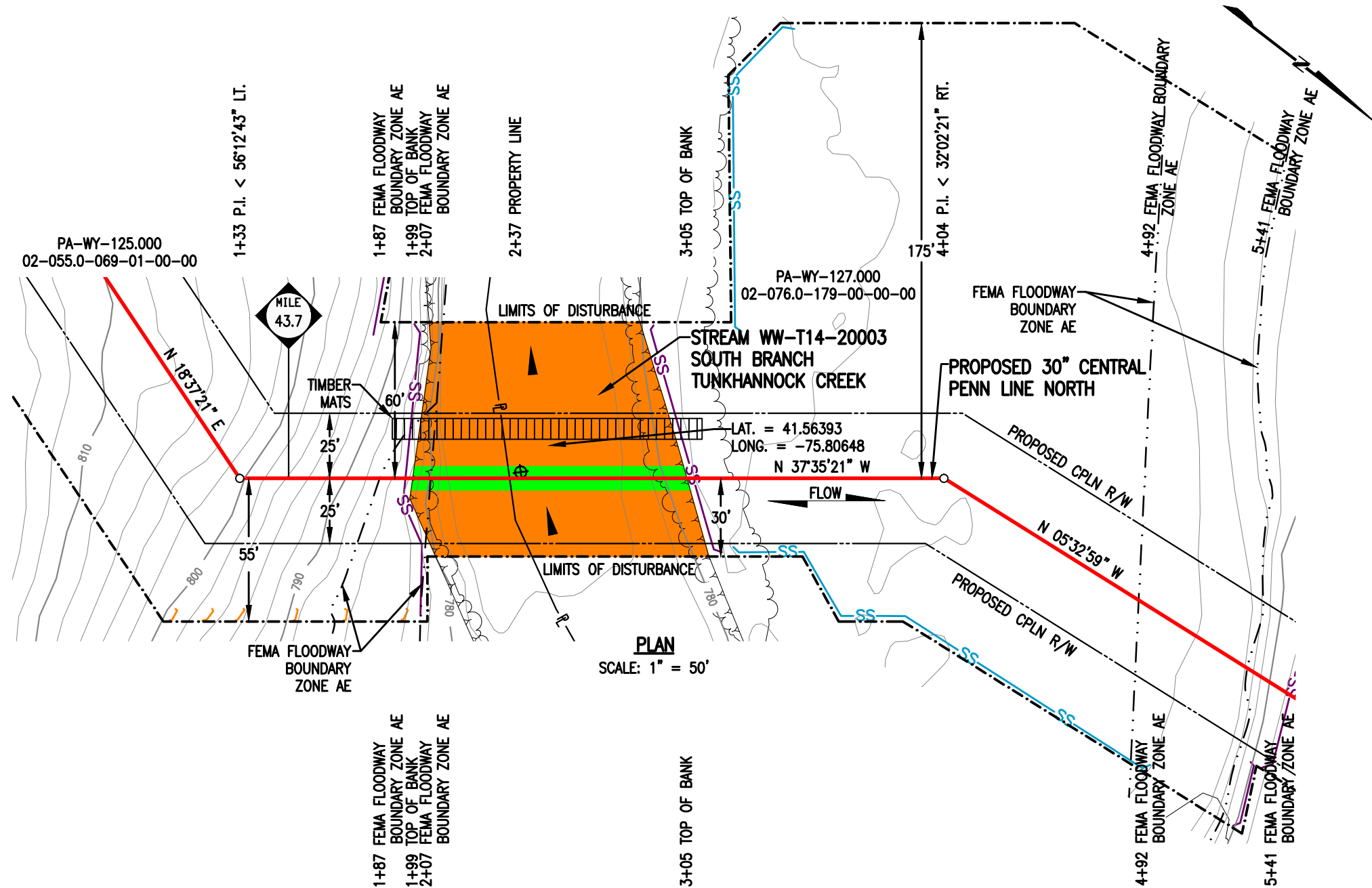


DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T14-20004
© M.P. 43.63
CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: LL	DATE: 12/27/14	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/43.63-02	SHEET 1
WC: 1161481		9/20/2016	OF 1



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T14-20003	ACRE
TEMPORARY STREAM DISTURBANCE	0.1768
PERMANENT STREAM DISTURBANCE	0.0242
TOTAL STREAM DISTURBANCE	0.2010
TEMPORARY FLOODWAY DISTURBANCE	1.1702
PERMANENT FLOODWAY DISTURBANCE	0.0571
TOTAL FLOODWAY DISTURBANCE	1.2273

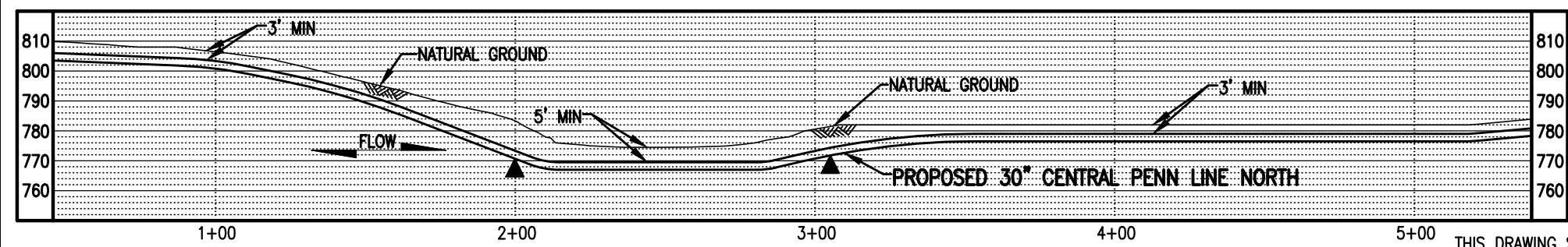
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	105.38
STREAM LENGTH	94.82

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 2307+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 50' RT. OF M.P. 43.72, ELEV. = 775.93' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		12" SEDIMENT BARRIER
			18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
			TOP OF BANK
			PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT



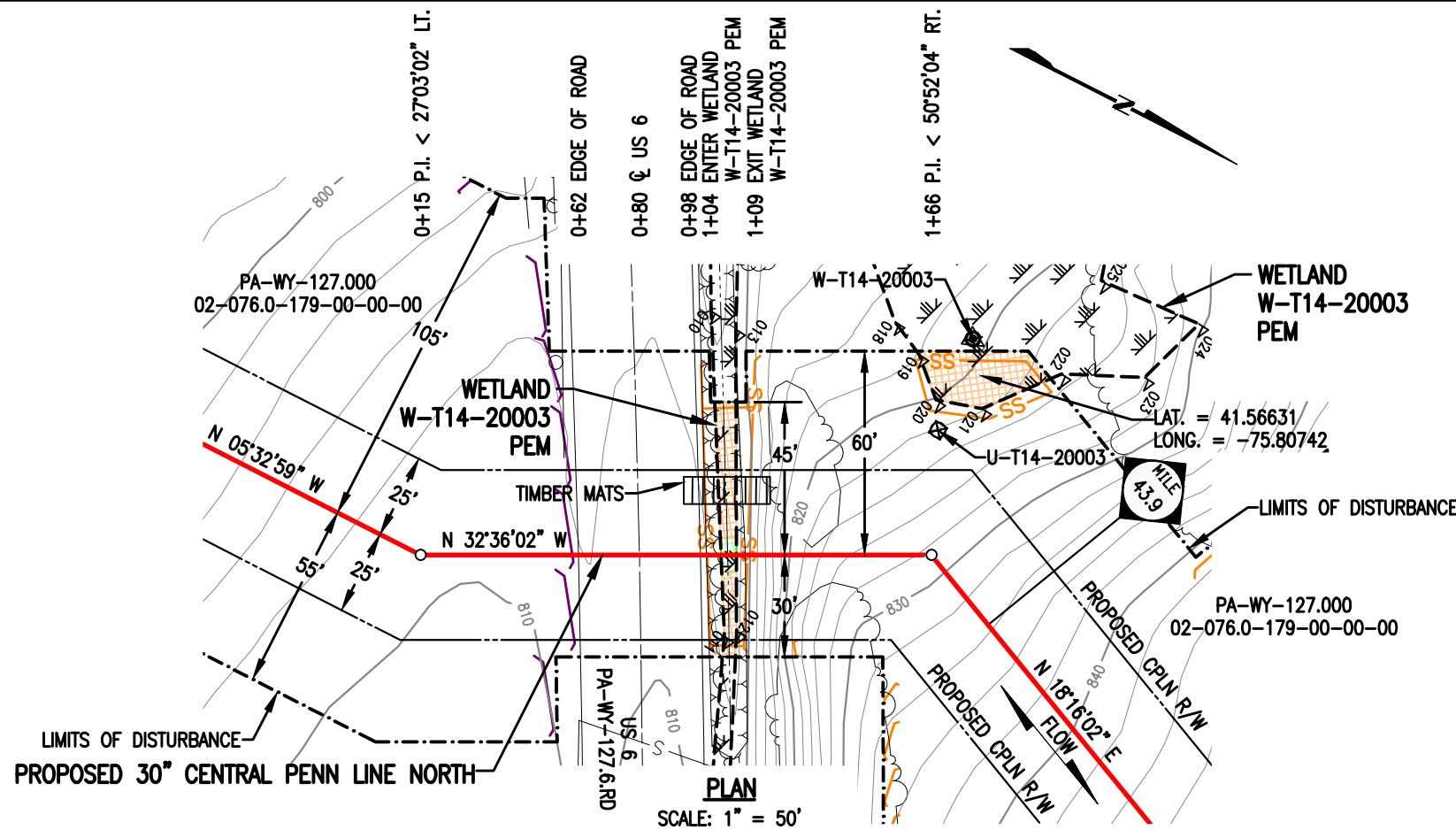
DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH
1	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T14-20003
M.P. 43.72
CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: LL	DATE: 12/27/14	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/43.71-02	SHEET 1
W.O. NUMBER: 1161481	10/19/2016	12:10pm	OF 1

THIS DRAWING SUPERCEDES 24-1601-70-09-A/43.71-01



WETLAND DISTURBANCE:

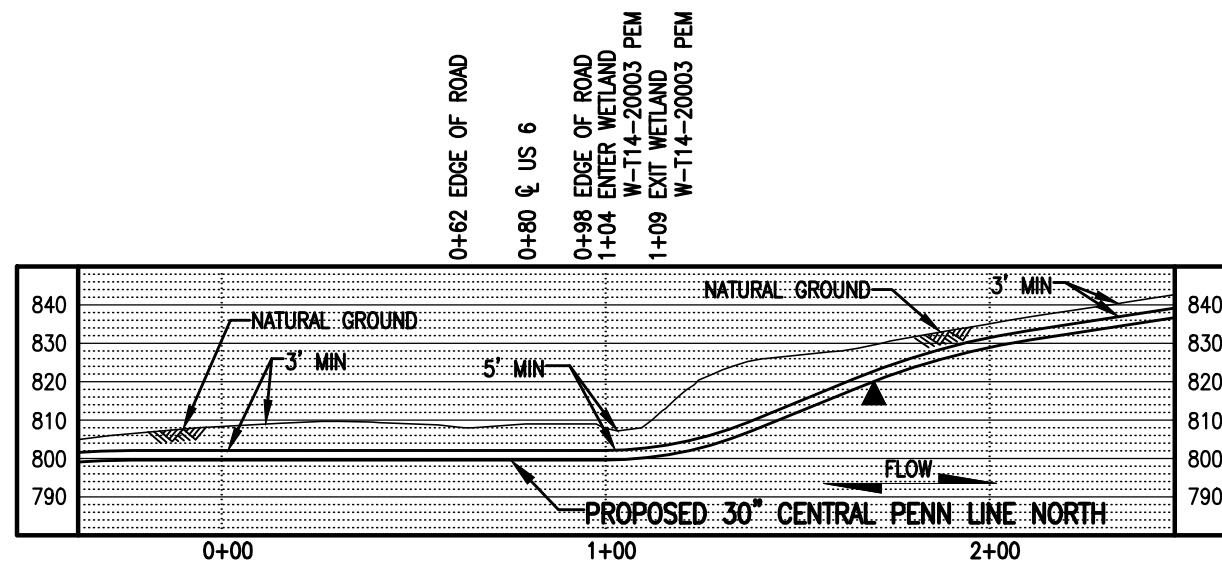
WETLAND W-T14-20003	ACRE
TEMPORARY DISTURBANCE	0.0182
PERMANENT DISTURBANCE	0.0010
TOTAL DISTURBANCE	0.0192

NOTES:

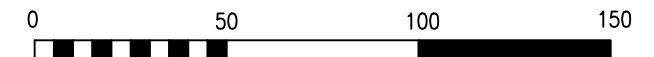
1. WETLAND W-T14-20003 WILL BE CROSSED BY CONVENTIONAL BORE.
2. STATION 1+00 SHOWN IS EQUAL TO STATION 2317+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 50' RT. OF M.P. 43.72, ELEV. = 775.93' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

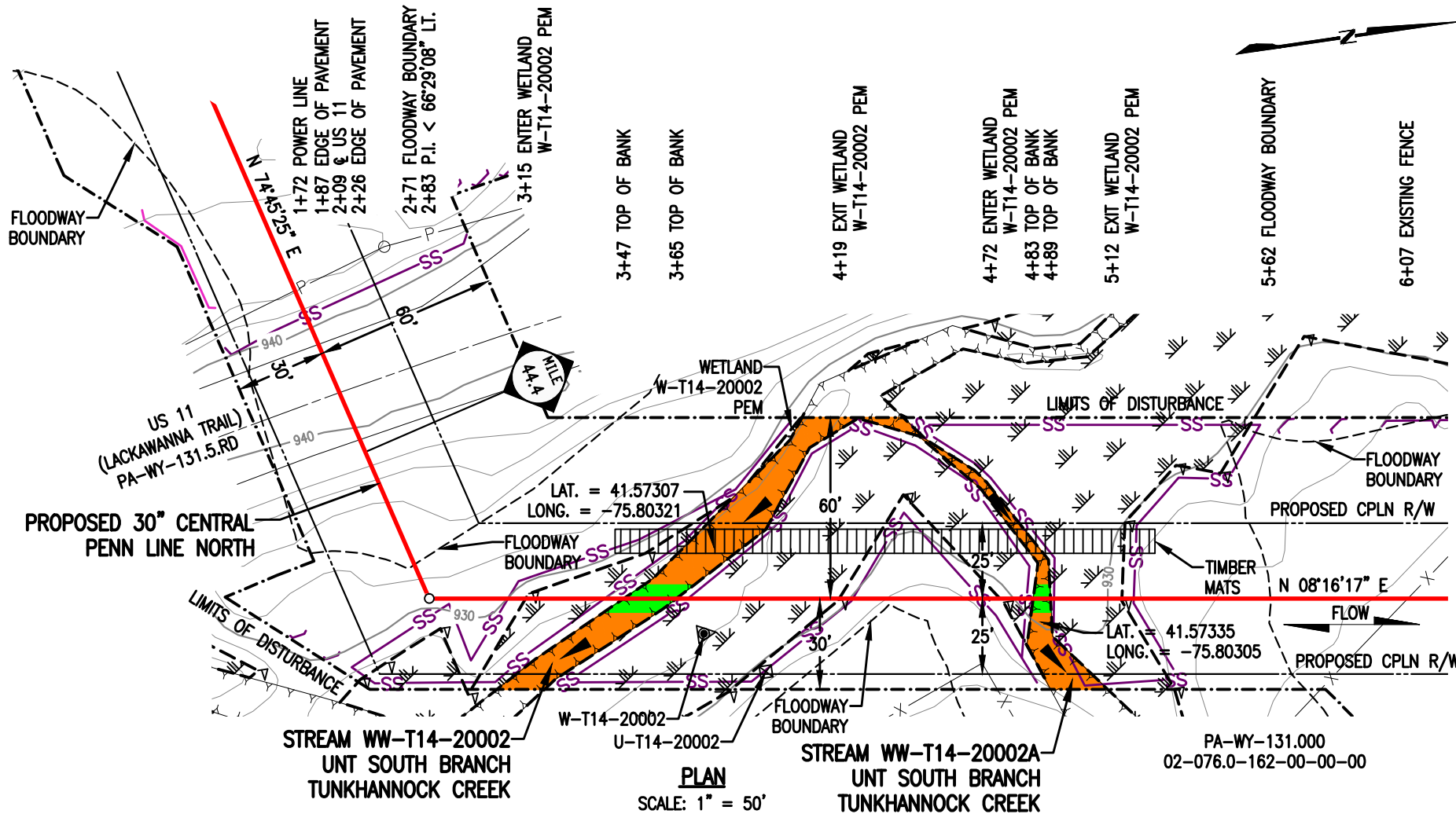


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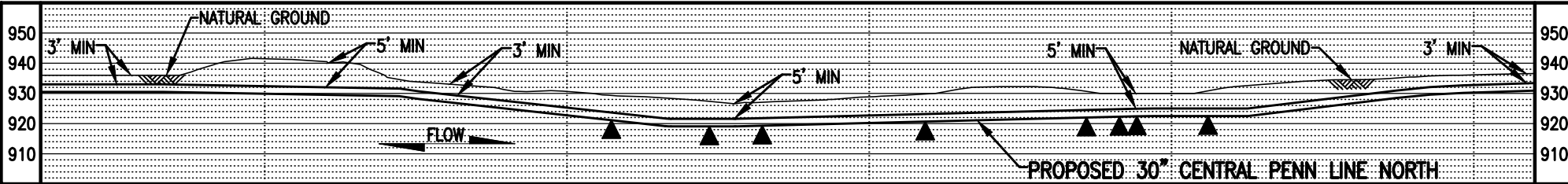
SCALE IN FEET

LEGEND		WOOD GROUP MUSTANG, INC.	
PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	12" SEDIMENT BARRIER	PERMANENT WETLAND IMPACT
EXISTING PIPELINES	PHOTO DATA POINT	18" SEDIMENT BARRIER	TEMPORARY WETLAND IMPACT
EXISTING TGPL R/W	WETLAND DATA POINT	24" SEDIMENT BARRIER	
LIMITS OF DISTURBANCE	UPLAND DATA POINT	32" SEDIMENT BARRIER	
PROPOSED CPLN R/W	WELL POINT	TOP OF BANK	
PROPERTY LINE	TRENCH PLUG		
FOREIGN PIPELINE	WATERBODY		
WETLAND AREA	TREE LINE		
EXISTING POWER LINE	FLOODWAY BOUNDARY		
EXISTING FENCE	FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T14-20003 © M.P. 43.90 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA			
NO.		REVISION DESCRIPTION					
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	
1	10/13/16	MJV	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	
DRAWN BY: AO		DATE: 03/06/15		ISSUED FOR BID:		SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 04/13/15		ISSUED FOR CONSTRUCTION:		REVISION: 1	
APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-20-A/43.88-02		SHEET 1	
WC: 1161481		10/18/2016		d1kudil		OF 1	



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T14-20002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0298
PERMANENT STREAM DISTURBANCE	0.0040
TOTAL STREAM DISTURBANCE	0.0338
TEMPORARY FLOODWAY DISTURBANCE	0.2827
PERMANENT FLOODWAY DISTURBANCE	0.0336
TOTAL FLOODWAY DISTURBANCE	0.3163

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	17.46
STREAM LENGTH	137.12

STREAM WW-T14-20002A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0125
PERMANENT STREAM DISTURBANCE	0.0013
TOTAL STREAM DISTURBANCE	0.0138
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.74
STREAM LENGTH	142.69

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T14-20002 AND WW-T14-20002A SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 3+00 SHOWN IS EQUAL TO STATION 2345+02 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 78' RT. OF M.P. 44.39, ELEV. = 940.33' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/44.42-01

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

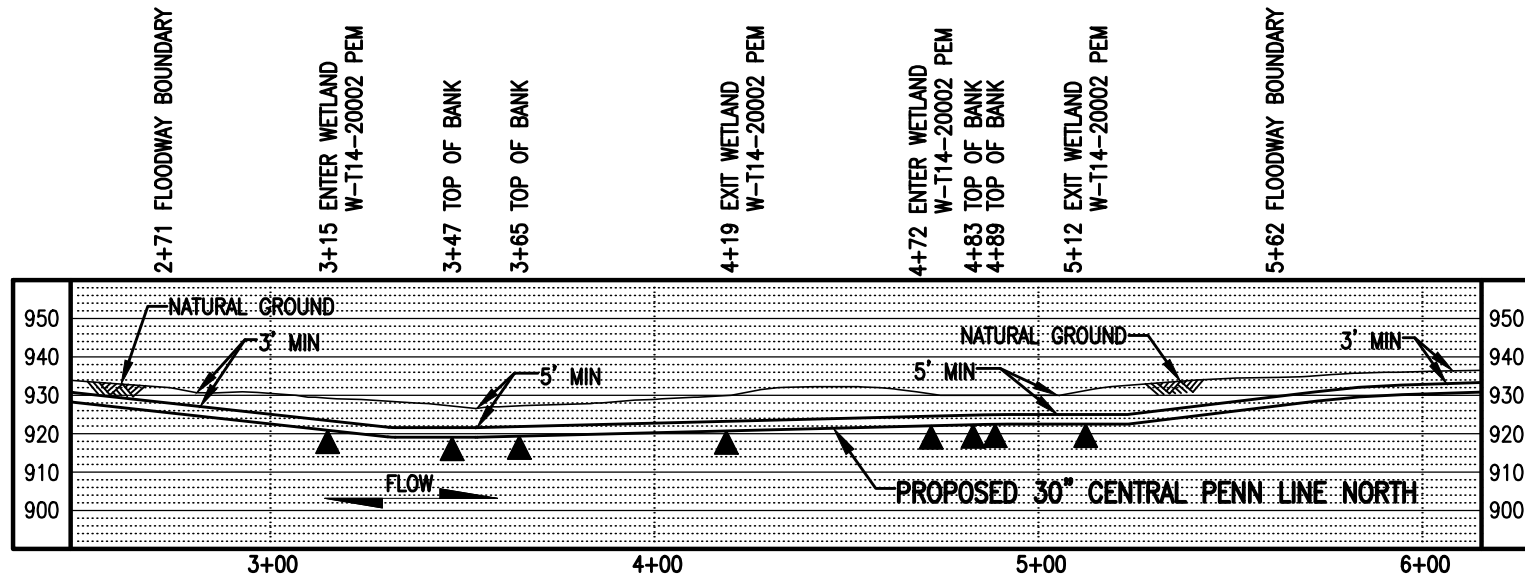
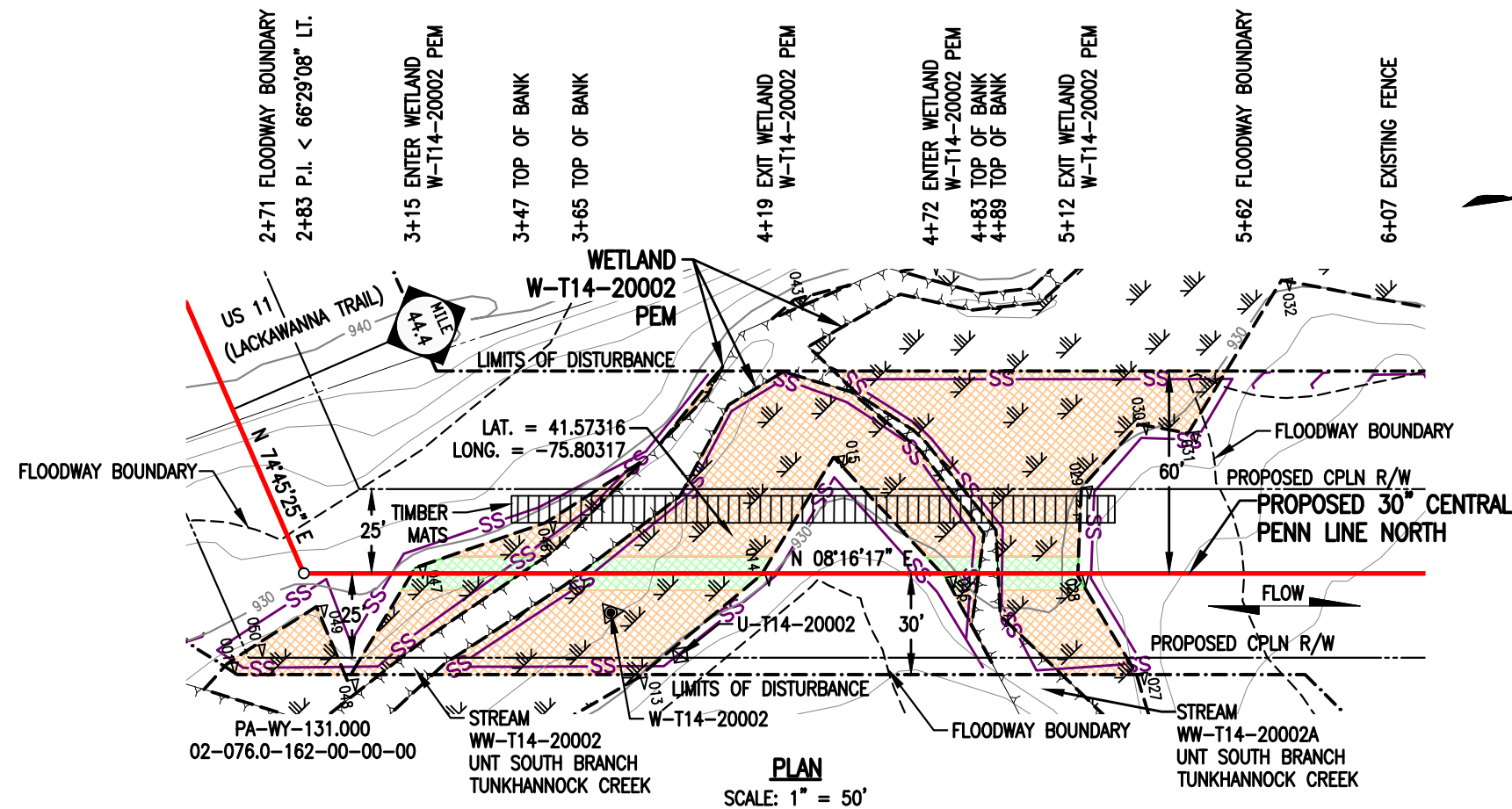
WOOD GROUP MUSTANG, INC.

- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- ▲ WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		<p>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSINGS WW-T14-20002 @ M.P. 44.43 & WW-T14-20002A @ M.P. 44.45 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA</p>	
NO.		REVISION DESCRIPTION			
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH

W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 12/29/14	ISSUED FOR BID:	SCALE: 1" = 50'
			CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
			APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/44.42-02	SHEET 1
			IWO: 1161481		10/18/2016	OF 1



WETLAND DISTURBANCE:

WETLAND W-T14-20002	ACRE
TEMPORARY DISTURBANCE	0.2190
PERMANENT DISTURBANCE	0.0276
TOTAL DISTURBANCE	0.2466

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 3+00 SHOWN IS EQUAL TO STATION 2345+02 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 78' RT. OF M.P. 44.39, ELEV. = 940.33' (NAVD88).

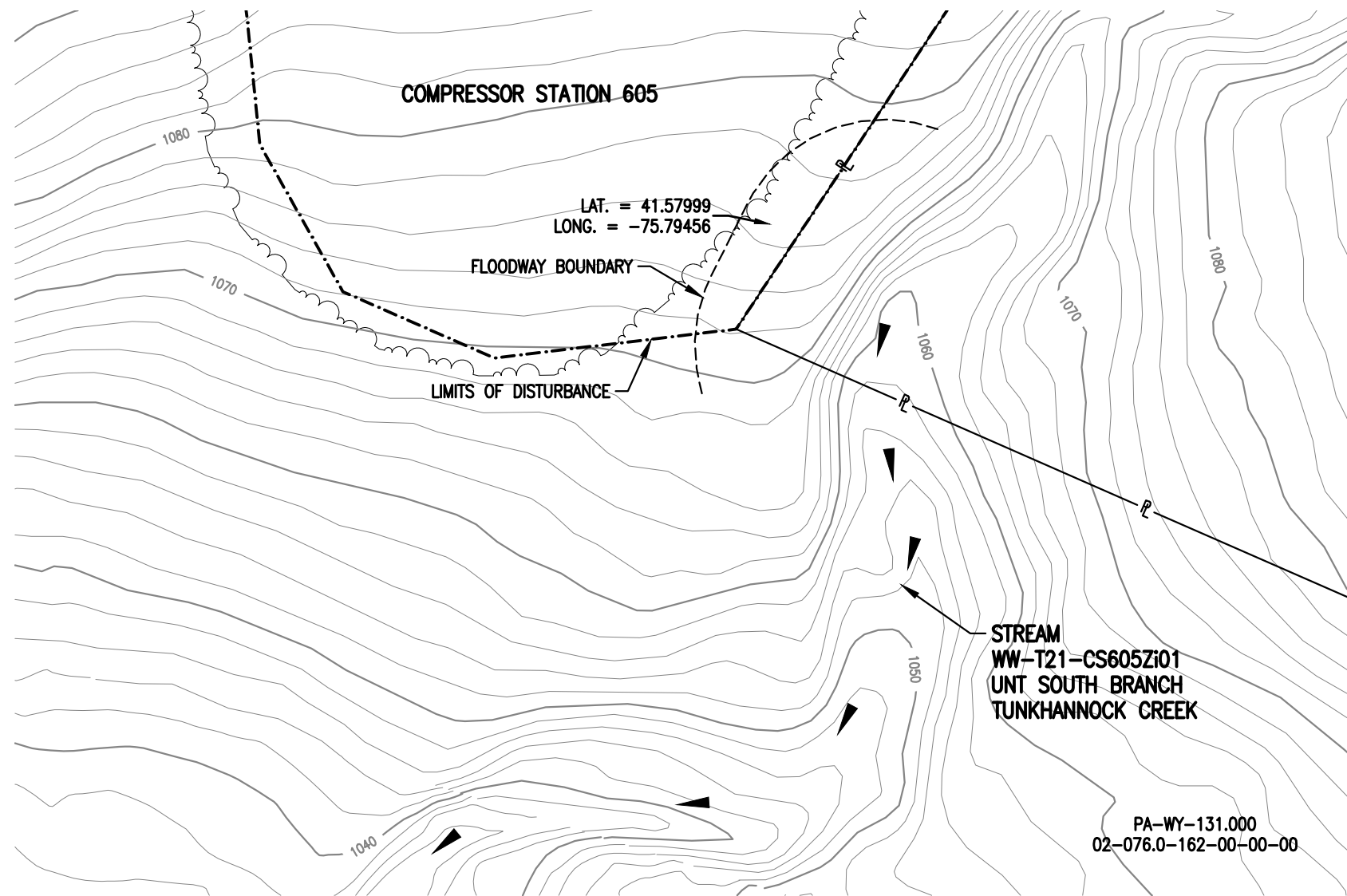


THIS DRAWING SUPERCEDES 24-1601-70-20-A/44.43-01

LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	TOP OF BANK
FOREIGN PIPELINE	WATERBODY	PERMANENT WETLAND IMPACT
WETLAND AREA	TREE LINE	TEMPORARY WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC						
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS						
				ATLANTIC SUNRISE PROJECT						
				PROPOSED 30" CENTRAL PENN LINE NORTH						
				WETLAND CROSSING W-T14-20002						
				M.P. 44.43						
				CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/44.43-02	SHEET 1
						10:30am		10/18/2016		OF 1
						1161481		K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_44.43-02.dwg		



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T21-CS605Zi01	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0309
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0309

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE. STREAM WILL BE MATTED DURING CONSTRUCTION.
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. SEE DRAWING 24-1601-70-20-A/45.23 FOR WETLANDS W-T19-20003A & W-T19-20003B.
4. COMPRESSOR STATION 605 IS NEAR STATION 12+35 SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 1286' RT. OF M-0063 M.P. 0.29, ELEV. = 1072.36' (NAVD88).

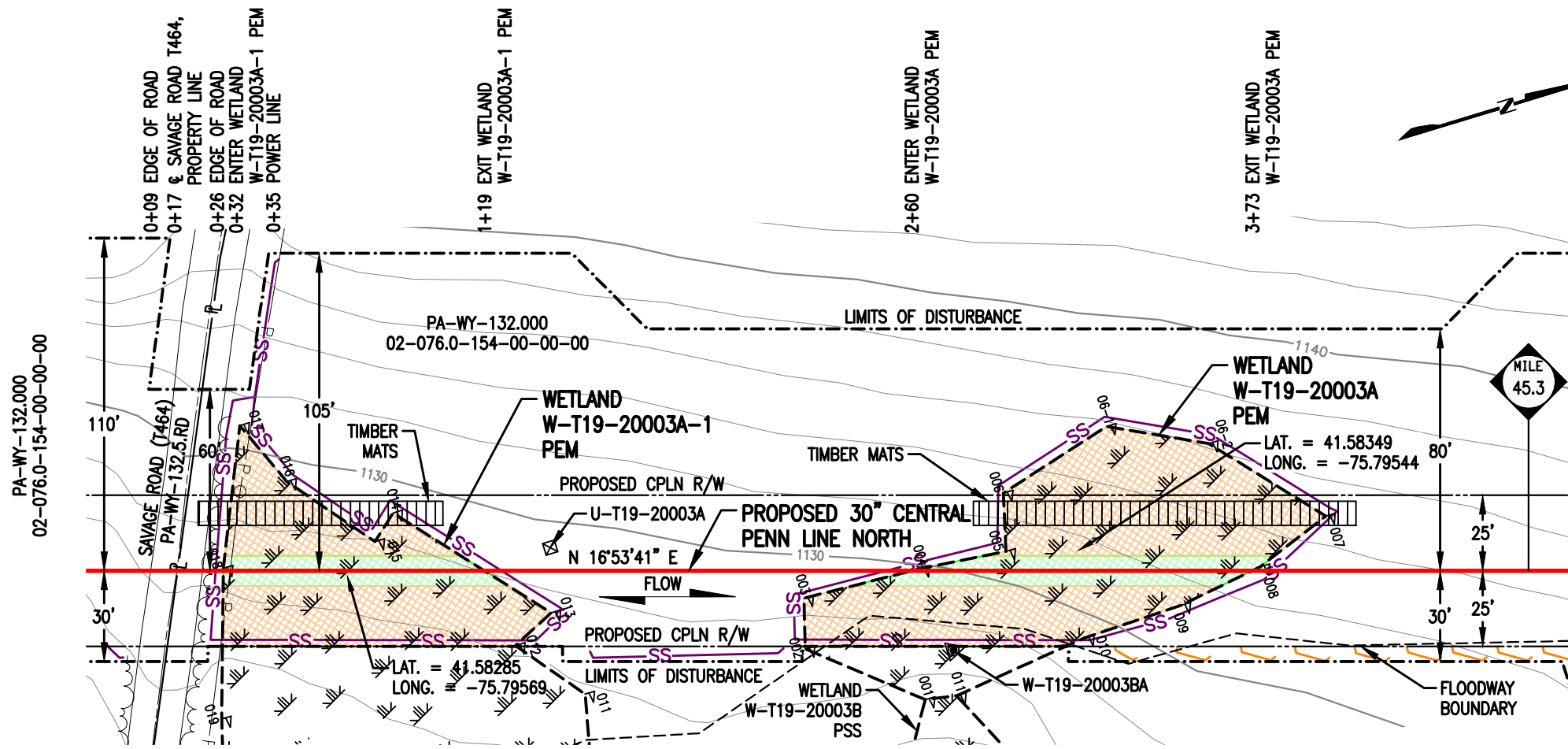


LEGEND			
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT
			12" SEDIMENT BARRIER
			18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
			TOP OF BANK

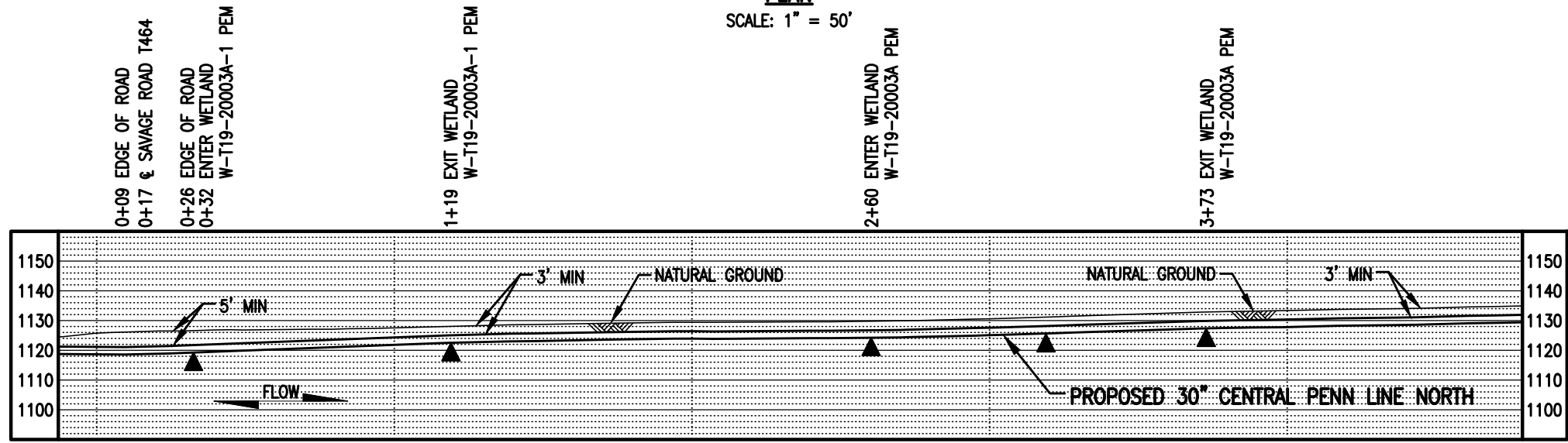
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NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AT	DATE: 03/08/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/13/16	CM	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 03/08/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 03/08/16	DRAWING NUMBER: 24-1601-70-09-A/M-0063-0.25-01	SHEET 1
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TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T21-CS605Zi01
© M-0063 M.P. 0.24
CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA





PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

WETLAND DISTURBANCE:

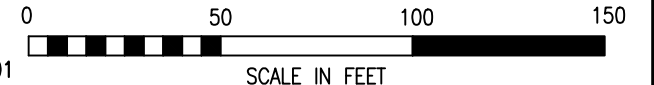
WETLAND W-T19-20003A / W-T19-20003A-1	ACRE
TEMPORARY DISTURBANCE	0.2028
PERMANENT DISTURBANCE	0.0453
TOTAL DISTURBANCE	0.2481

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 2388+20 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 52' RT. OF M.P. 45.22, ELEV. = 1131.61' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-20-A/45.23-01

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - - LIMITS OF DISTURBANCE
- - - - - PROPOSED CPLN R/W
- P PROPERTY LINE
- P FOREIGN PIPELINE
- / / / WETLAND AREA
- P EXISTING POWER LINE
- X EXISTING FENCE

- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊗ WETLAND DATA POINT
- ⊗ UPLAND DATA POINT
- ⊗ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

WOOD GROUP MUSTANG, INC.

- SS 12" SEDIMENT BARRIER
- SS 18" SEDIMENT BARRIER
- SS 24" SEDIMENT BARRIER
- SS 32" SEDIMENT BARRIER
- TOP OF BANK
- / / / PERMANENT WETLAND IMPACT
- / / / TEMPORARY WETLAND IMPACT

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T19-20003A-1 & W-T19-20003B
CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

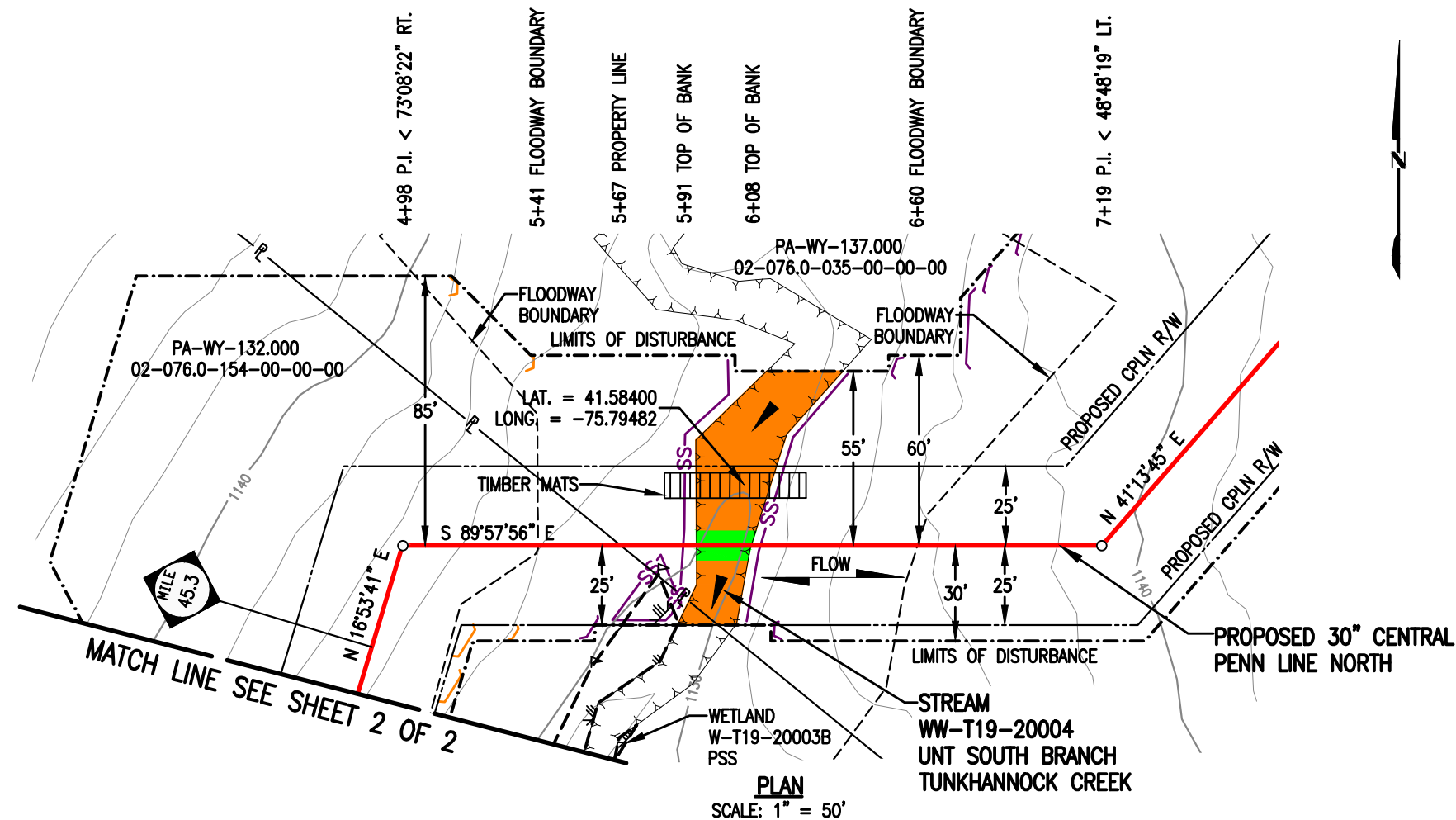
Williams

SCALE: 1" = 50'
REVISION: 1

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	ELR	03/06/15		1" = 50'
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	ML	04/13/15		1" = 50'

APPROVED BY: MJH
DATE: 04/17/15
W.O. NUMBER: 1161481

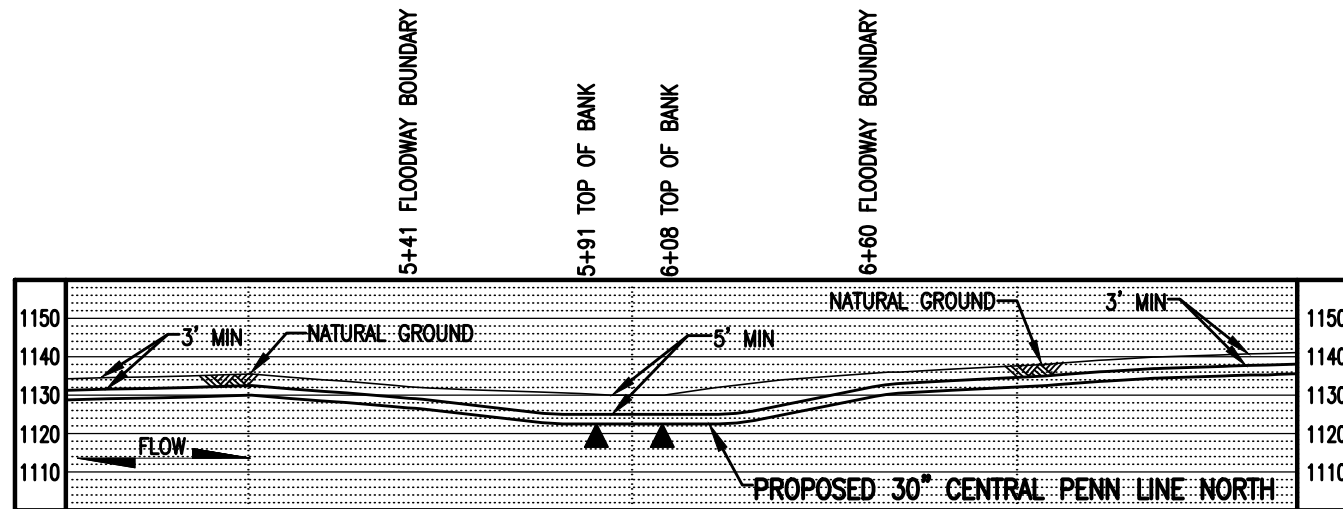
ISSUED FOR CONSTRUCTION: 24-1601-70-20-A/45.23-02
 DRAWING NUMBER: 10/34am
 10/18/2016
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STREAM DISTURBANCE:

STREAM WW-T19-20004	ACRE
TEMPORARY STREAM DISTURBANCE	0.0354
PERMANENT STREAM DISTURBANCE	0.0040
TOTAL STREAM DISTURBANCE	0.0394
TEMPORARY FLOODWAY DISTURBANCE	0.2669
PERMANENT FLOODWAY DISTURBANCE	0.0237
TOTAL FLOODWAY DISTURBANCE	0.2906

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	17.20
STREAM LENGTH	87.25



GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 5+00 SHOWN IS EQUAL TO STATION 2392+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 52' LT. OF M.P. 45.22, ELEV. = 1131.61' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/45.32-01

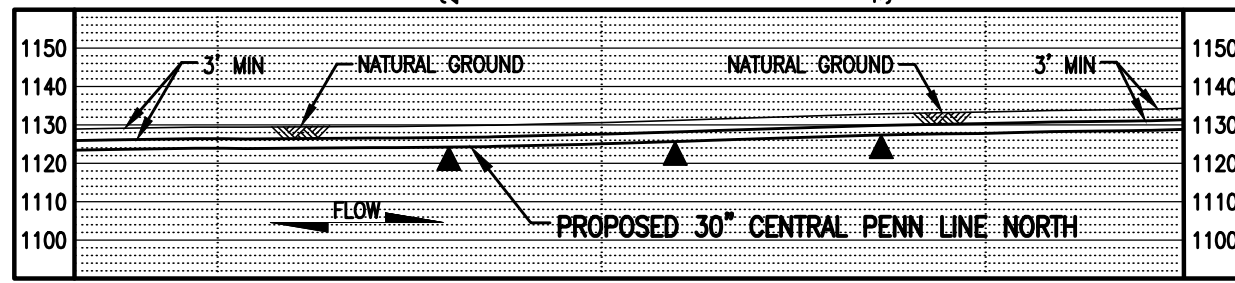
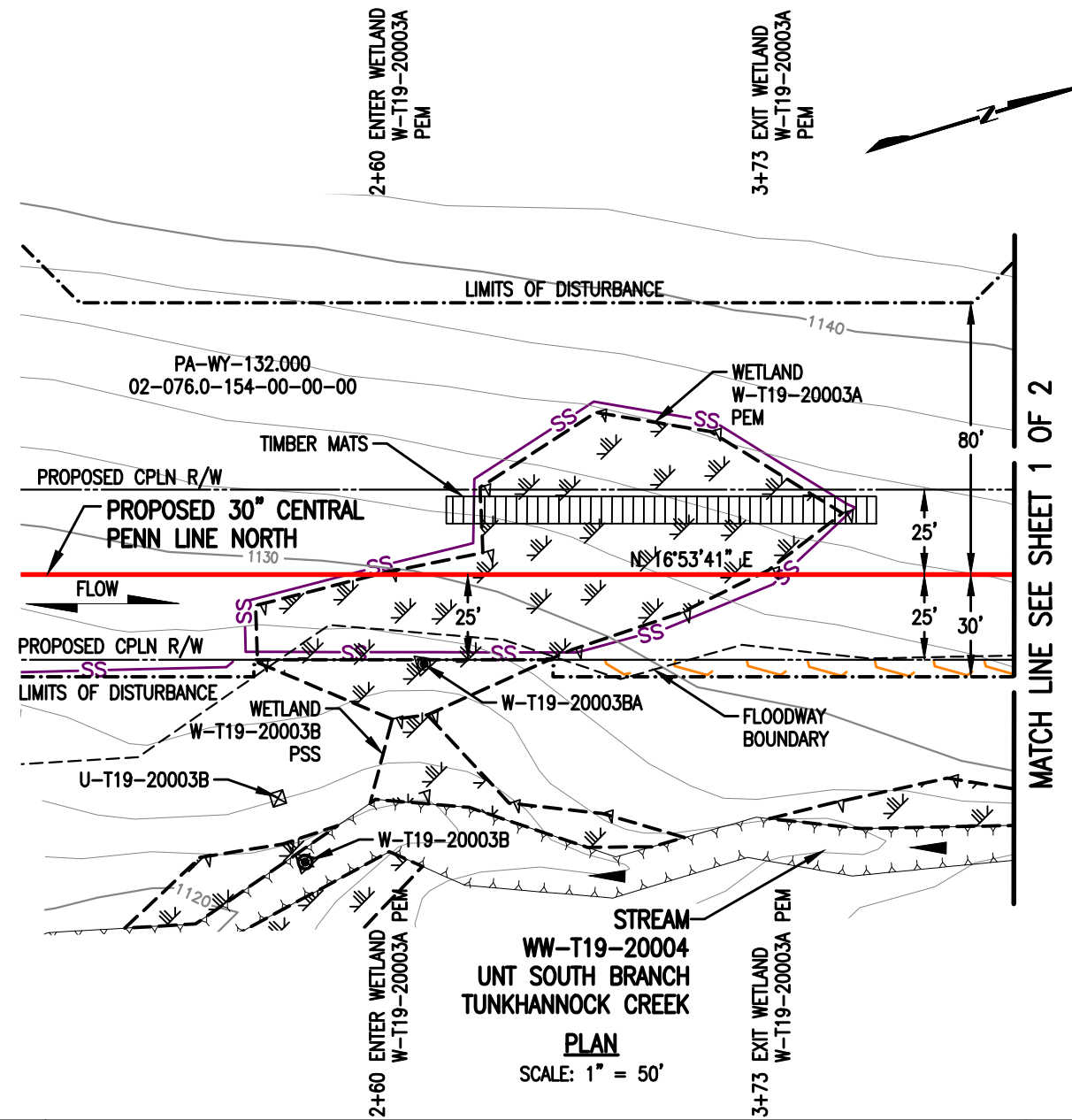
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		PERMANENT STREAM IMPACT
	FOREIGN PIPELINE		WATERBODY		TEMPORARY STREAM IMPACT
	WETLAND AREA		TREE LINE		FLOODWAY BOUNDARY
	STREAM FLOW		FEMA FLOODWAY BOUNDARY		EXISTING FENCE
	EXISTING POWER LINE				
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T19-20004 © M.P. 45.33 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 12/29/14	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/45.32-02	SHEET 1	
IWO: 1161481		10/19/2016	12:55pm	OF 2	

STREAM DISTURBANCE:

SEE TABLE ON SHEET 1 OF 2



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH
	EXISTING PIPELINES
	EXISTING TGPL R/W
	LIMITS OF DISTURBANCE
	PROPOSED CPLN R/W
	PROPERTY LINE
	FOREIGN PIPELINE
	WETLAND AREA
	STREAM FLOW
	EXISTING POWER LINE
	EXISTING FENCE

	WETLAND FLAGS
	PHOTO DATA POINT
	WETLAND DATA POINT
	UPLAND DATA POINT
	WELL POINT
	TRENCH PLUG
	WATERBODY
	TREE LINE
	FLOODWAY BOUNDARY
	FEMA FLOODWAY BOUNDARY

	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK
	PERMANENT STREAM IMPACT
	TEMPORARY STREAM IMPACT

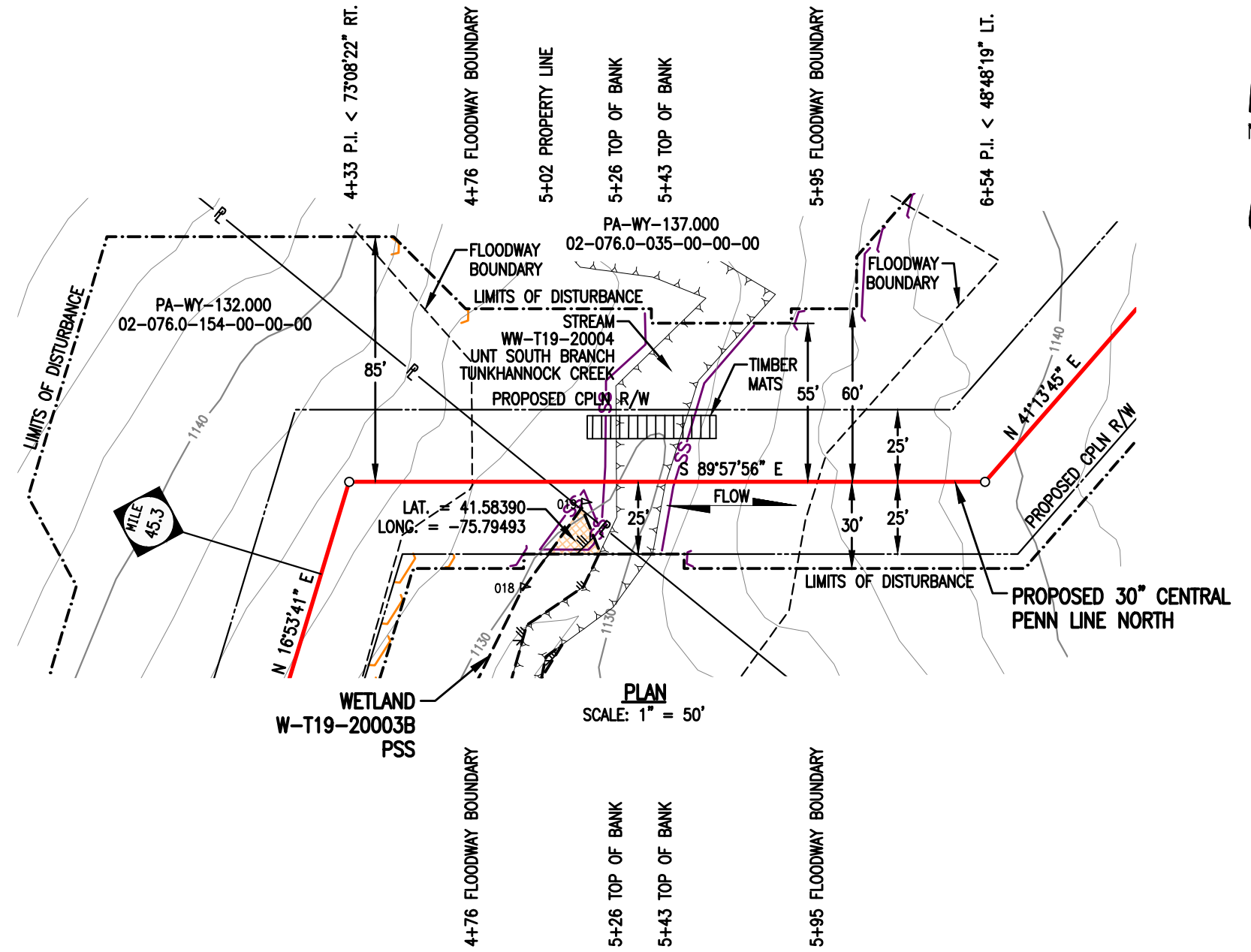


DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T19-20004
© M.P. 45.33
CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: JB	DATE: 09/30/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 09/30/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 09/30/16	DRAWING NUMBER: 24-1601-70-09-A/45.32-02	SHEET 2
WO: 1161481		10/19/2016	OF 2

K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_45.32-02.dwg



WETLAND DISTURBANCE:

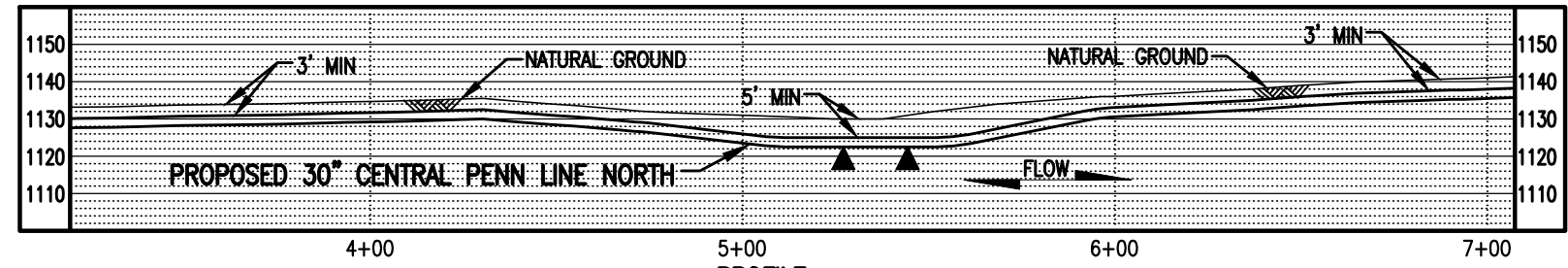
WETLAND W-T19-20003B	ACRE
TEMPORARY DISTURBANCE	0.0033
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0033

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 5+00 SHOWN IS EQUAL TO STATION 2392+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 52' LT. OF M.P. 45.22, ELEV. = 1131.61' (NAVD88).

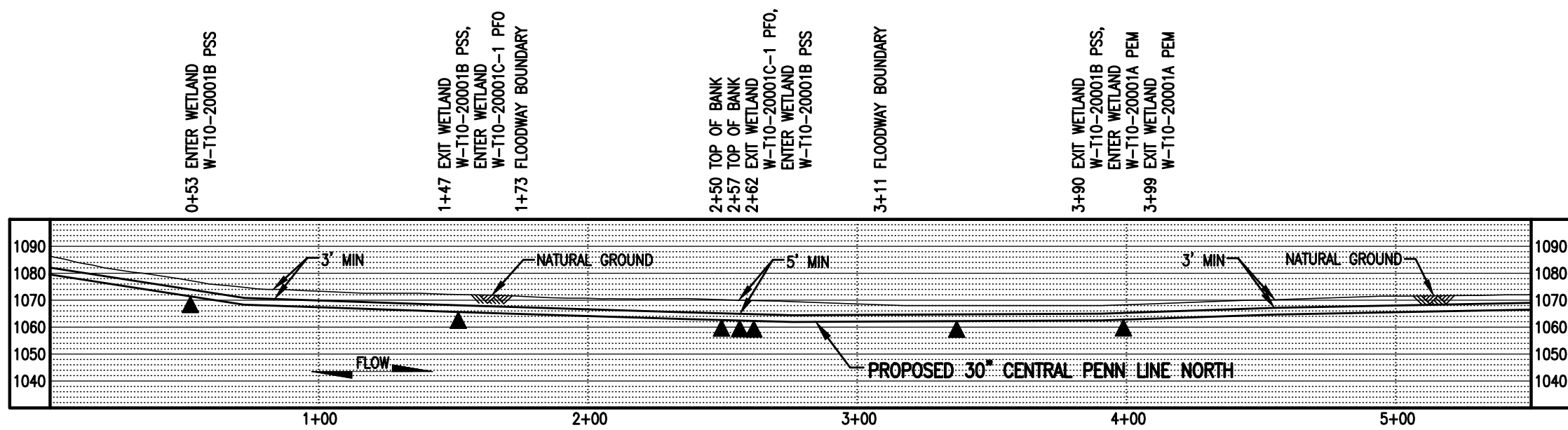


THIS DRAWING SUPERCEDES 24-1601-70-20-A/45.32-01

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT WETLAND IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY WETLAND IMPACT
	EXISTING POWER LINE		FLOODWAY BOUNDARY		
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T19-20003B © M.P. 45.32 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/45.32-02	SHEET 1	
WO: 1161481		10/18/2016	10:36am		OF 1



PROFILE
 SCALE: 1" = 50' HORIZONTAL
 1" = 50' VERTICAL



THIS DRAWING SUPERCEDES 24-1601-70-20-A/45.76-01

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT WETLAND IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY WETLAND IMPACT
	EXISTING POWER LINE		FLOODWAY BOUNDARY		
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSINGS W-T10-20001C/W-T10-20001C-1 @ M.P. 45.76 W-T10-20001B @ M.P. 45.79, & W-T10-20001A @ M.P. 45.82 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/45.76-02	SHEET 2
2	10/10/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	W.O. NUMBER: 1161481	DATE: 9/20/2016	11:07am s1ninh	OF 2

STREAM DISTURBANCE:

STREAM WW-T10-20001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0106
PERMANENT STREAM DISTURBANCE	0.0015
TOTAL STREAM DISTURBANCE	0.0121
TEMPORARY FLOODWAY DISTURBANCE	0.0192
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0192

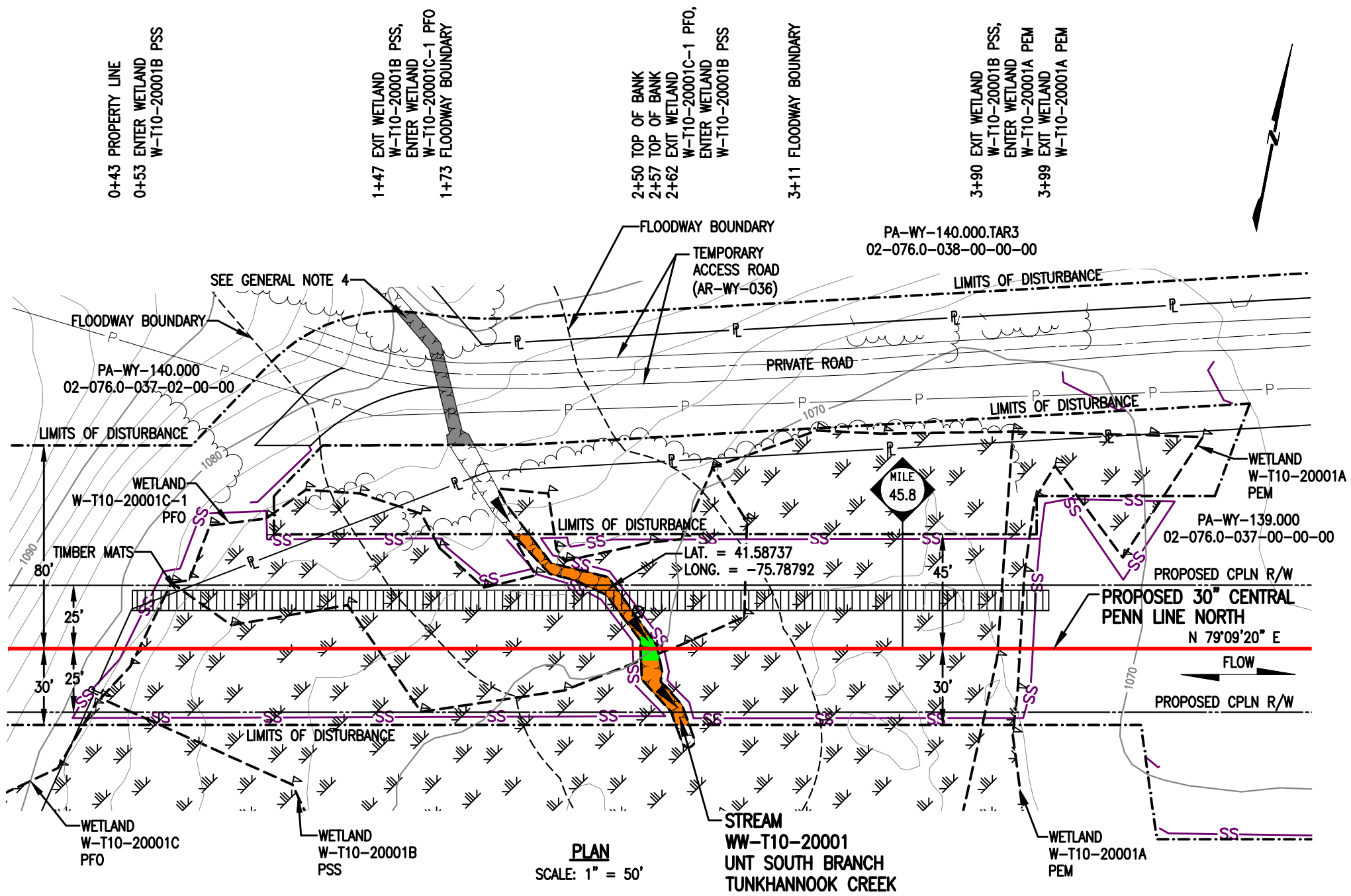
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	6.72
STREAM LENGTH	111.35

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2415+71 ON THE EROSION AND SEDIMENT CONTROL PLAN.
4. IMPACT FOR STREAM WW-T10-20001 ON ACCESS ROAD AR-WY-036 IS SHOWN ON DRAWING 24-1601-70-A/AR-WY-036-01.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 137' LT. OF M.P. 45.84, ELEV. = 1076.36' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/45.78-01

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - - LIMITS OF DISTURBANCE
- - - - - PROPOSED CPLN R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▶ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- SS 12" SEDIMENT BARRIER
- SS 18" SEDIMENT BARRIER
- SS 24" SEDIMENT BARRIER
- SS 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - - - FLOODWAY BOUNDARY
- - - - - FEMA FLOODWAY BOUNDARY

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT
1	02/03/16	TL	ISSUED FOR INTERNAL USE
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T10-20001
© M.P. 45.78
CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

W.O. NO. 1161481
CHK. CLR
APP. MJH

DRAWN BY: LL
DATE: 03/06/15
ISSUED FOR BID:

SCALE: 1" = 50'

NO. 1161481
CHK. CLR
APP. MJH

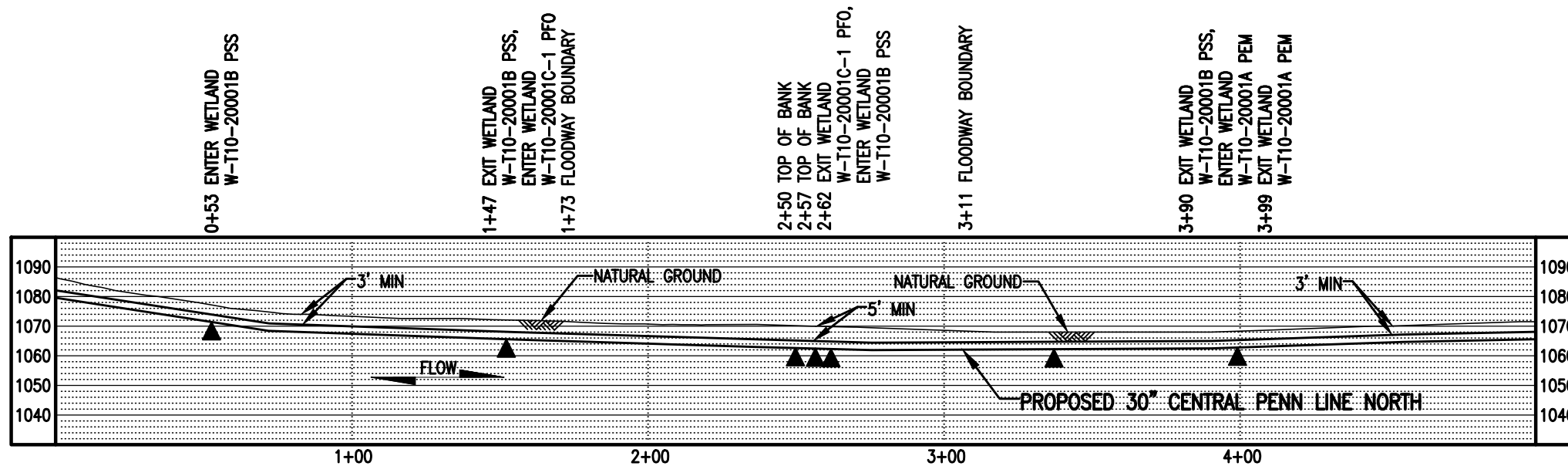
CHECKED BY: ML
DATE: 03/07/15
ISSUED FOR CONSTRUCTION:

REVISION: 2

W.O. NO. 1161481
CHK. CLR
APP. MJH

DRAWING NUMBER: 24-1601-70-09-A/45.78-02
10/7/2016 t3le
K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_45.78-02.dwg

SHEET 1 OF 2



PROFILE
 SCALE: 1" = 50' HORIZONTAL
 1" = 50' VERTICAL



THIS DRAWING SUPERCEDES 24-1601-70-09-A/45.78-01

LEGEND

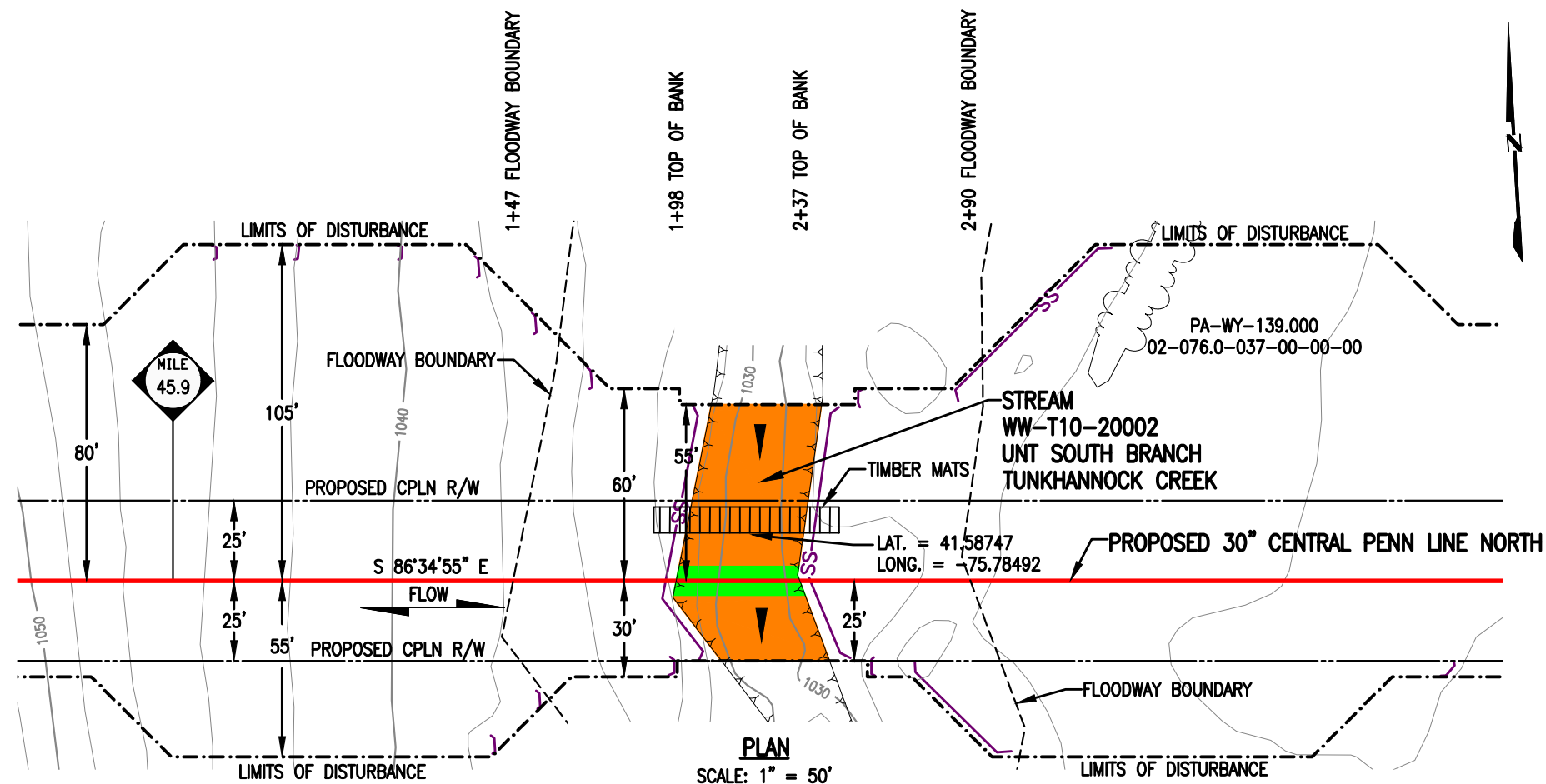
	PROPOSED 30" CENTRAL PENN LINE NORTH
	EXISTING PIPELINES
	EXISTING TGPL R/W
	LIMITS OF DISTURBANCE
	PROPOSED CPLN R/W
	PROPERTY LINE
	FOREIGN PIPELINE
	WETLAND AREA
	STREAM FLOW
	EXISTING POWER LINE
	EXISTING FENCE

	WETLAND FLAGS
	PHOTO DATA POINT
	WETLAND DATA POINT
	UPLAND DATA POINT
	WELL POINT
	TRENCH PLUG
	WATERBODY
	TREE LINE
	FLOODWAY BOUNDARY
	FEMA FLOODWAY BOUNDARY

	WOOD GROUP MUSTANG, INC.
	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK
	PERMANENT STREAM IMPACT
	TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT
1	02/03/16	TL	ISSUED FOR INTERNAL USE
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T10-20001 @ M.P. 45.78 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA				
DRAWING NUMBER: 24-1601-70-09-A/45.78-02				
W.O. NO. 1161481 CHK. CLR MJH APP. CLR MJH	DRAWN BY: LL CHECKED BY: ML APPROVED BY: MJH IWO: 1161481	DATE: 03/06/15 DATE: 03/07/15 DATE: 04/17/15	ISSUED FOR BID: ISSUED FOR CONSTRUCTION: DRAWING NUMBER: 24-1601-70-09-A/45.78-02 9/20/2016 c:\m\thi K:\103646-CPLN\Mapping\Waterbodies\Revised 105\24-1601-70-09-A_45.78-02.dwg	SCALE: 1" = 50' REVISION: 2 SHEET 2 OF 2



STREAM DISTURBANCE:

STREAM WW-T10-20002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0585
PERMANENT STREAM DISTURBANCE	0.0089
TOTAL STREAM DISTURBANCE	0.0674
TEMPORARY FLOODWAY DISTURBANCE	0.2048
PERMANENT FLOODWAY DISTURBANCE	0.0239
TOTAL FLOODWAY DISTURBANCE	0.2287

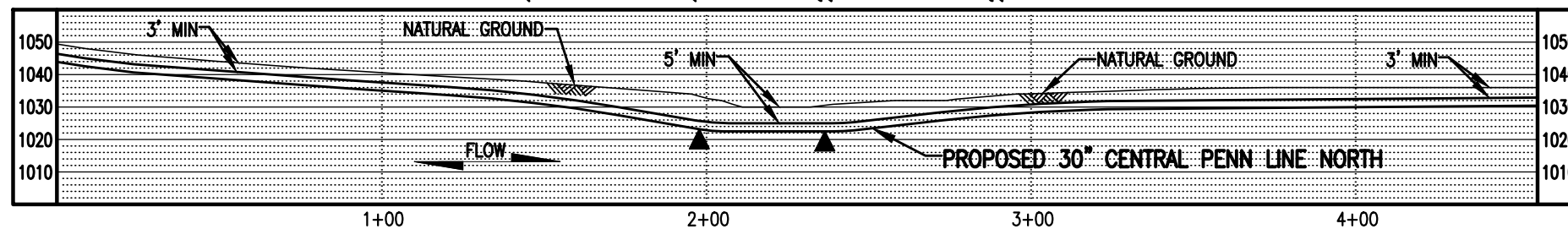
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	38.59
STREAM LENGTH	80.77

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2424+11 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 211' RT. OF M.P. 45.85, ELEV. = 1061.55' (NAVD88).



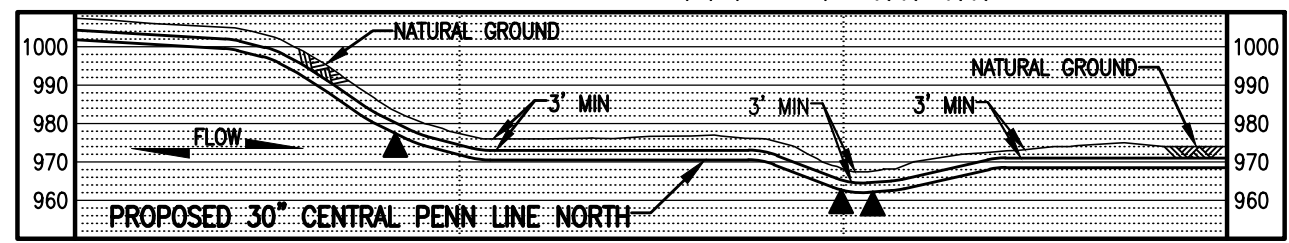
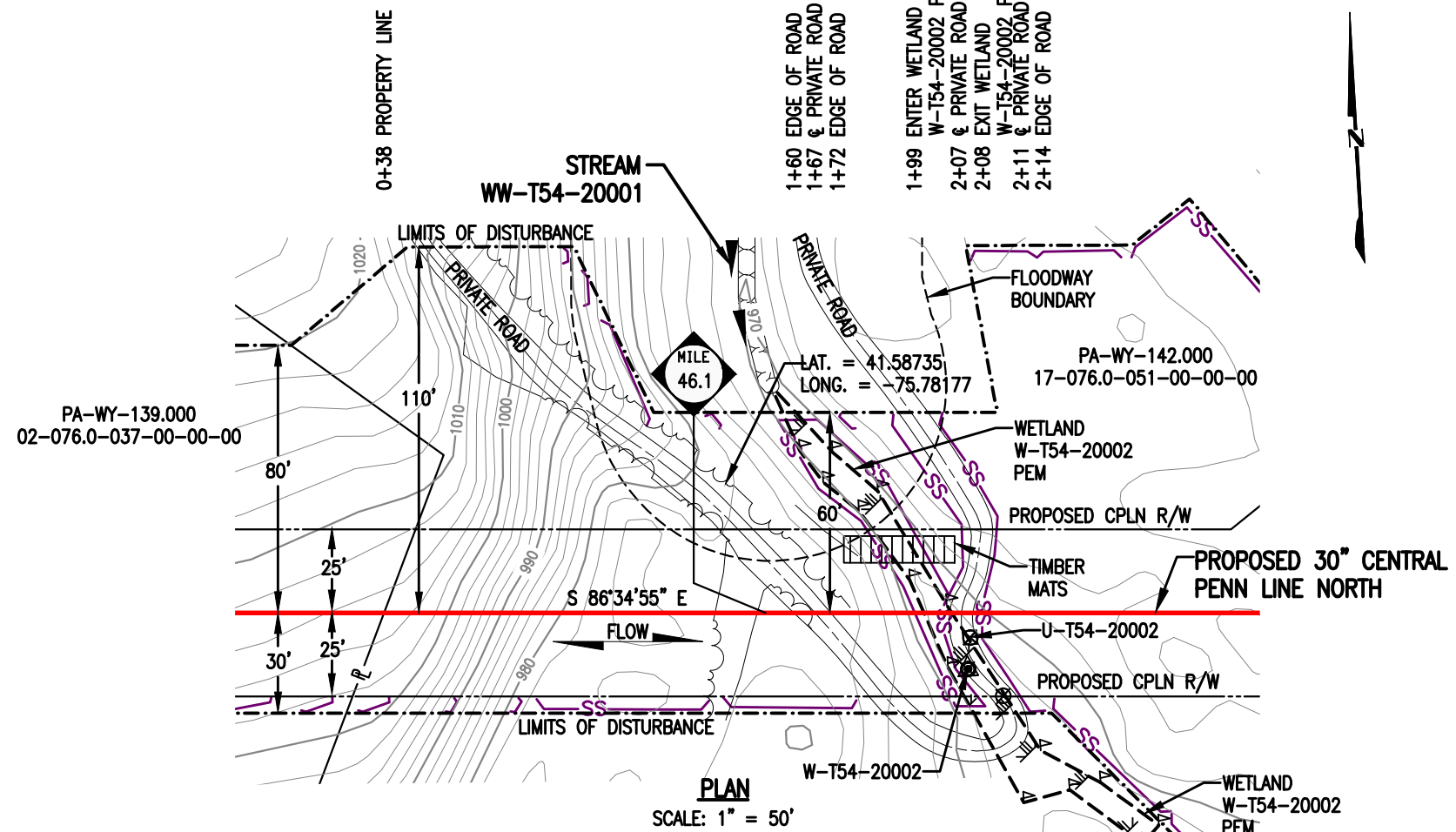
THIS DRAWING SUPERCEDES 24-1601-70-09-A/45.94-01



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T10-20002 © M.P. 45.93 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 12/29/14		ISSUED FOR BID:	
CHECKED BY: ML		DATE: 03/07/15		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-09-A/45.94-02 SHEET 1	
IWO: 1161481		10/18/2016		OF 1	



STREAM DISTURBANCE:

STREAM WW-T54-20001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0854
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0854

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

GENERAL NOTES:

1. STREAM DOES NOT CROSS PIPELINE. EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 2434+56 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 4.47' LT. OF M.P. 46.10, ELEV. = 976.80' (NAVD88).

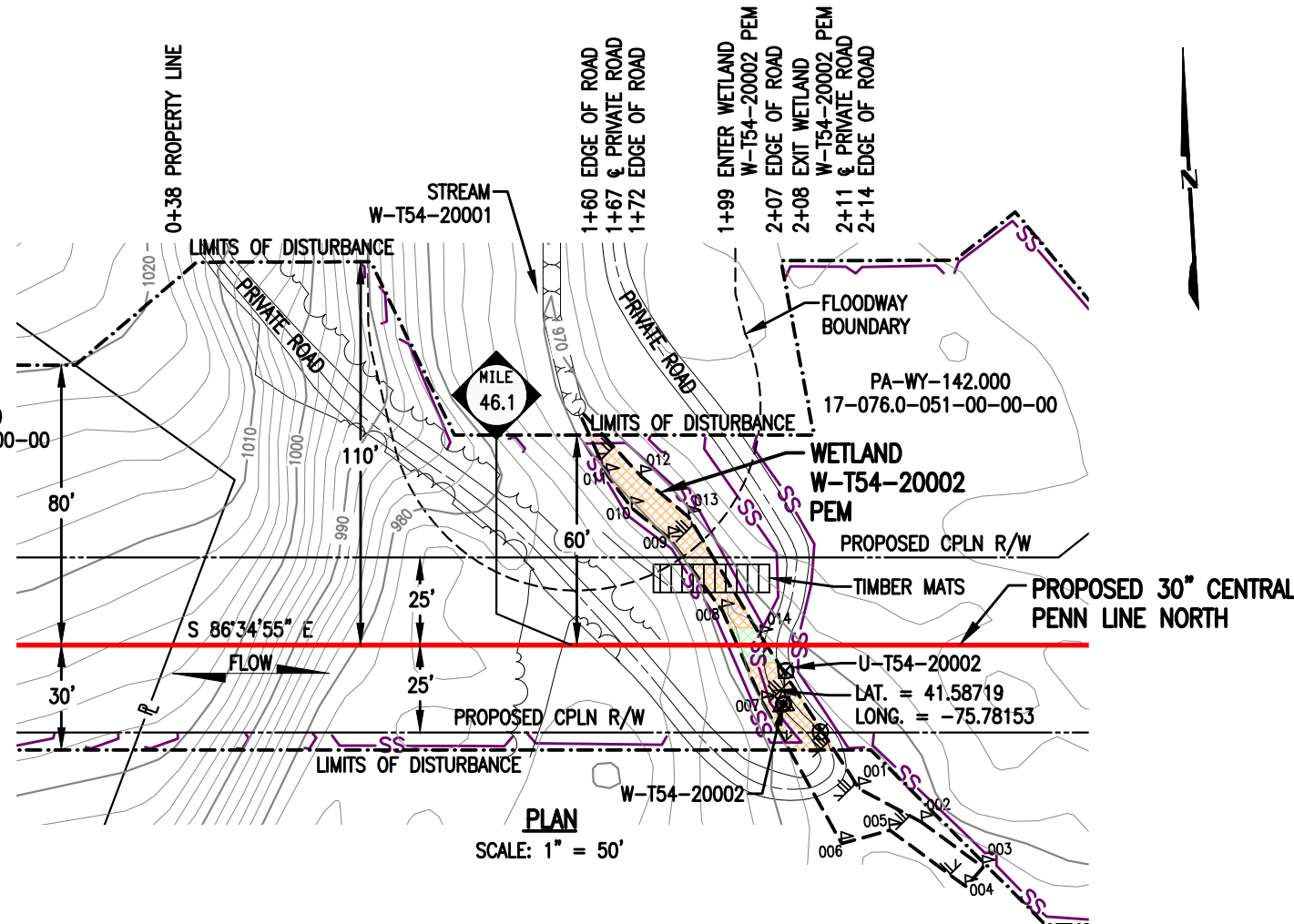


LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

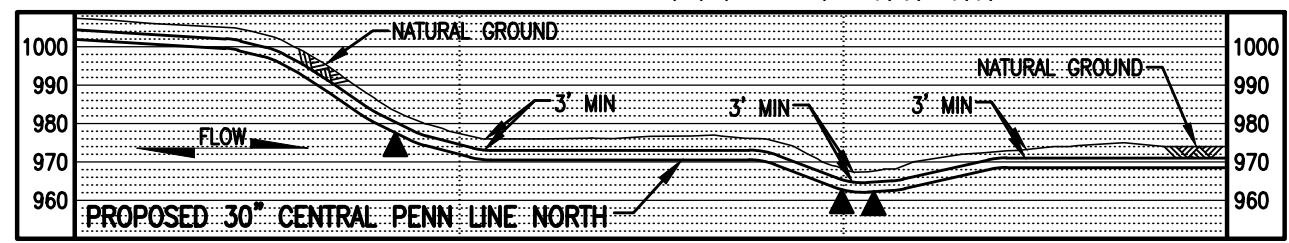
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T54-20001 © M.P. 46.09 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	10/13/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: TL		DATE: 06/24/16		ISSUED FOR BID:	
CHECKED BY: CLR		DATE: 06/27/16		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 06/28/16		DRAWING NUMBER: 24-1601-70-09-A/46.09-01	
W.O. NUMBER: 1161481		DATE: 9/20/2016		SHEET 1 OF 1	

PA-WY-139.000
02-076.0-037-00-00-00



WETLAND DISTURBANCE:

WETLAND W-T54-20002	ACRE
TEMPORARY DISTURBANCE	0.0176
PERMANENT DISTURBANCE	0.0019
TOTAL DISTURBANCE	0.0195



NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 2+00 SHOWN IS EQUAL TO STATION 2432+56 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

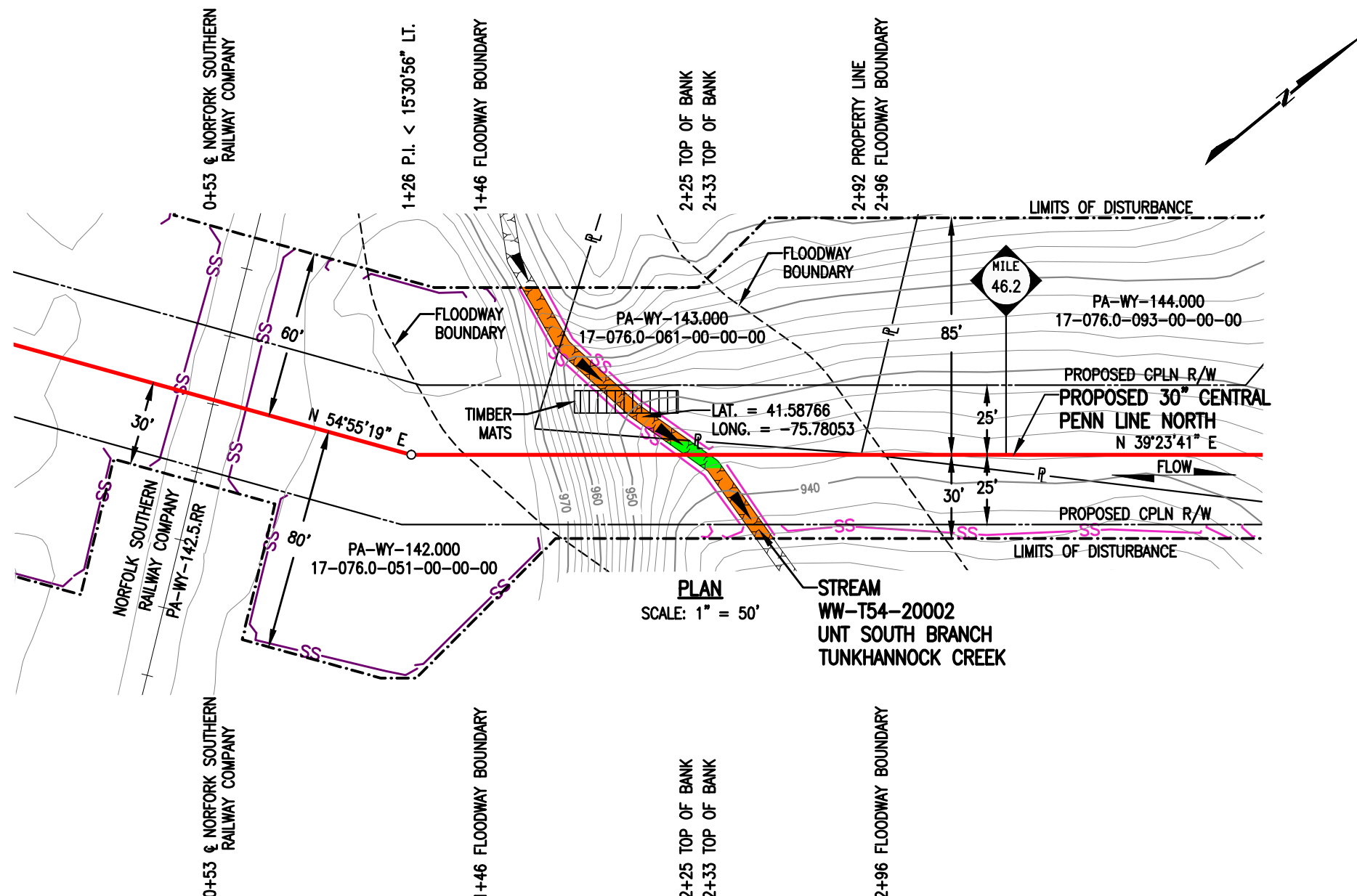
- T.B.M. SURVEY CONTROL POINT - 4.47' LT. OF M.P. 46.10, ELEV. = 976.80' (NAVD88).



LEGEND

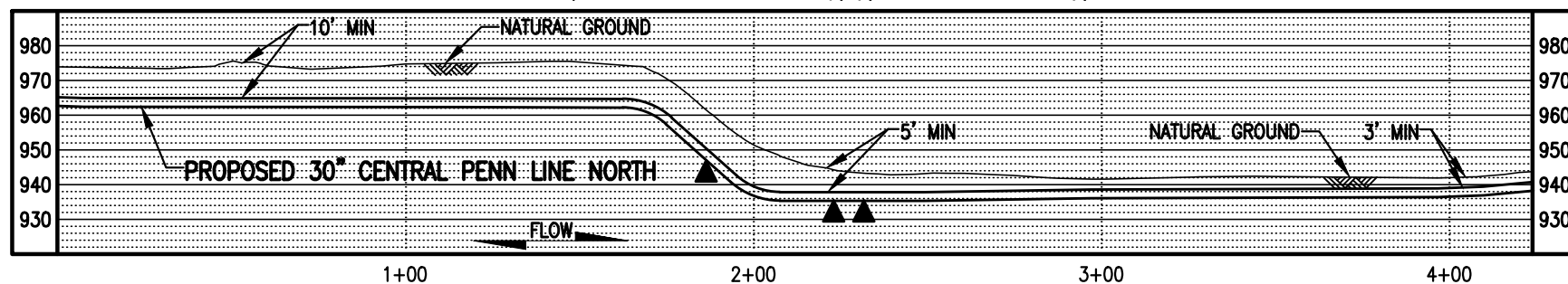
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT WETLAND IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY WETLAND IMPACT
	EXISTING POWER LINE		FLOODWAY BOUNDARY		
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T54-20002 © M.P. 46.11 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL	DATE: 06/24/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/13/16	AD	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 07/05/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-20-A/46.11-01	SHEET 1
							WC: 1161481		11:45am 9/20/2016 s1ninh	OF 1



PLAN
SCALE: 1" = 50'

STREAM WW-T54-20002
UNT SOUTH BRANCH
TUNKHANNOCK CREEK



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T54-20002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0124
PERMANENT STREAM DISTURBANCE	0.0019
TOTAL STREAM DISTURBANCE	0.0143
TEMPORARY FLOODWAY DISTURBANCE	0.2538
PERMANENT FLOODWAY DISTURBANCE	0.0326
TOTAL FLOODWAY DISTURBANCE	0.2864

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	8.66
STREAM LENGTH	124.97

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T54-20002 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 2437+97 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

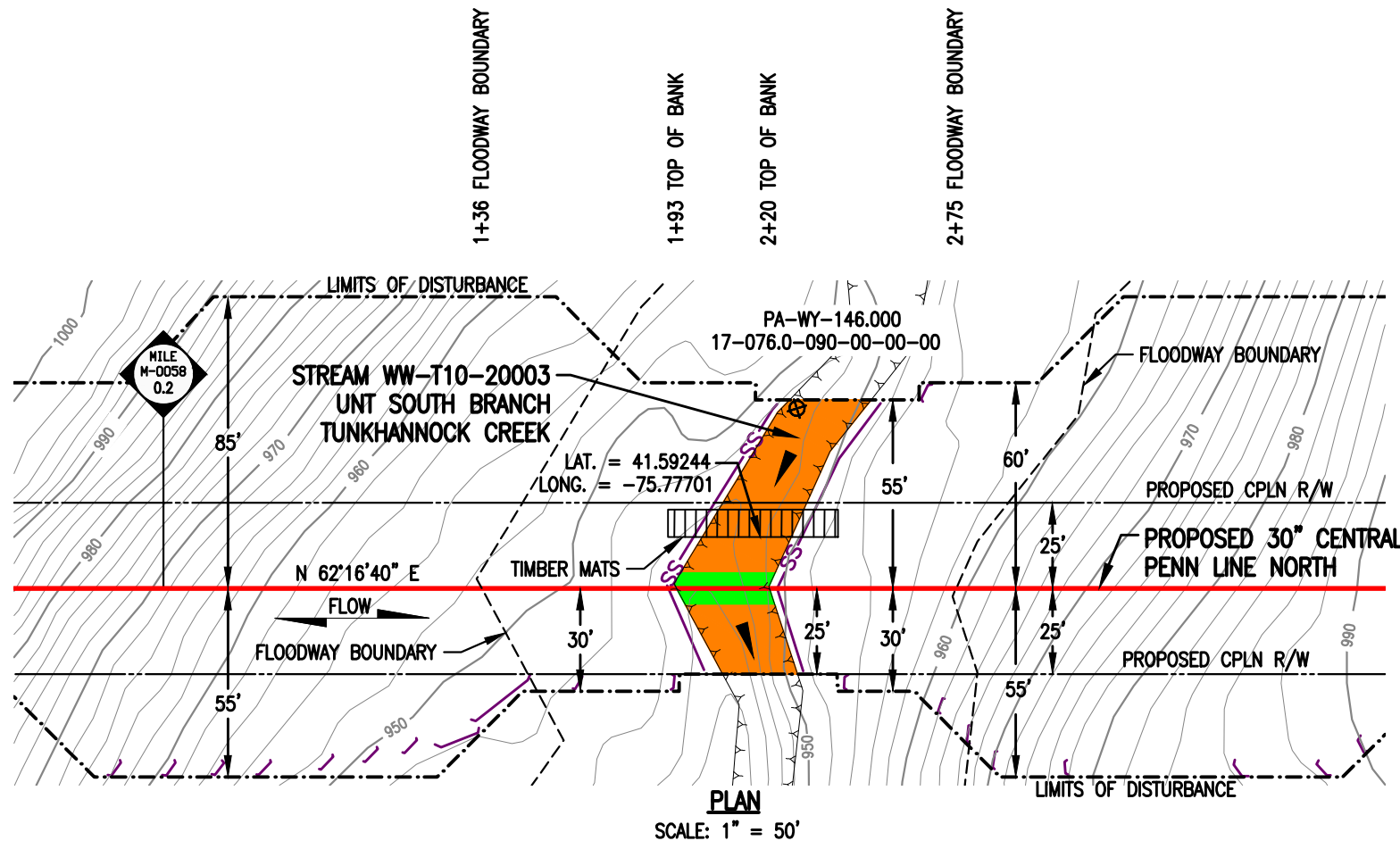
1. T.B.M. SURVEY CONTROL POINT - 60.21' LT. OF M.P. 46.17, ELEV. = 972.07' (NAVD88).



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T54-20002 M.P. 46.18 CLINTON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 06/16/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/13/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 06/16/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 06/16/16	DRAWING NUMBER: 24-1601-70-09-A/46.17-01	SHEET 1
							W.O. NO.: 1161481		10/18/2016	OF 1



STREAM DISTURBANCE:

STREAM WW-T10-20003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0390
PERMANENT STREAM DISTURBANCE	0.0062
TOTAL STREAM DISTURBANCE	0.0452
TEMPORARY FLOODWAY DISTURBANCE	0.2138
PERMANENT FLOODWAY DISTURBANCE	0.0255
TOTAL FLOODWAY DISTURBANCE	0.2393

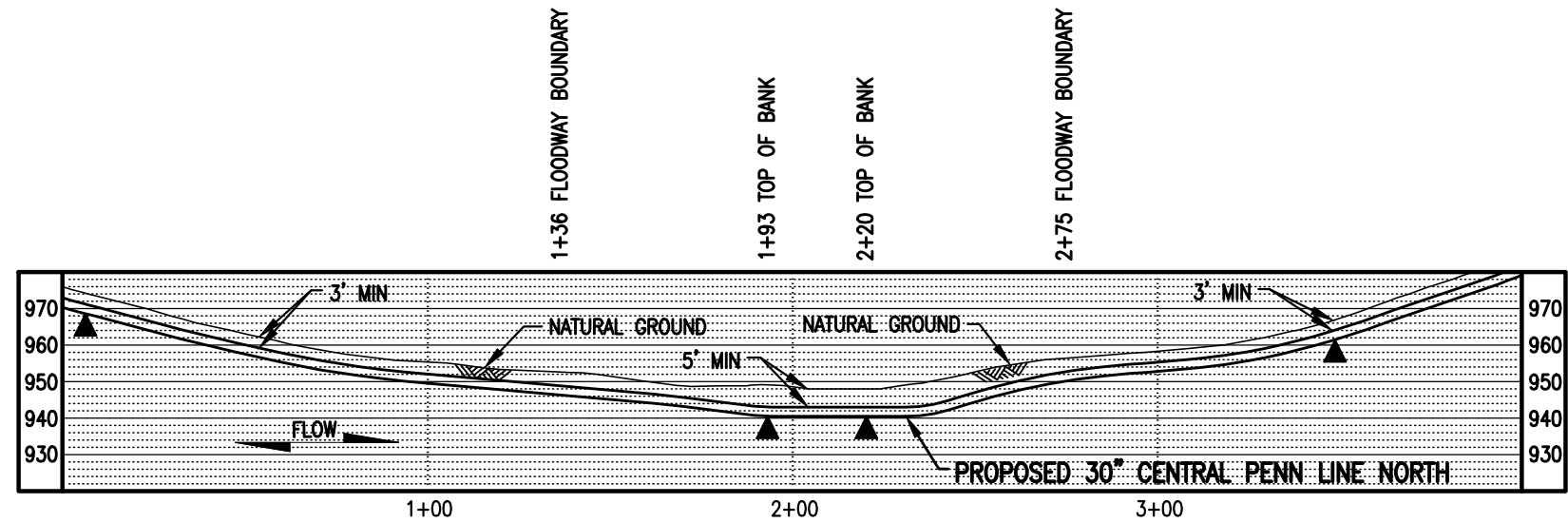
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	27.08
STREAM LENGTH	91.70

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO M-0058 STATION 11+13 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 96' LT. OF M-0058 M.P. 0.24, ELEV. = 959.24' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/M-0058-0.22-01



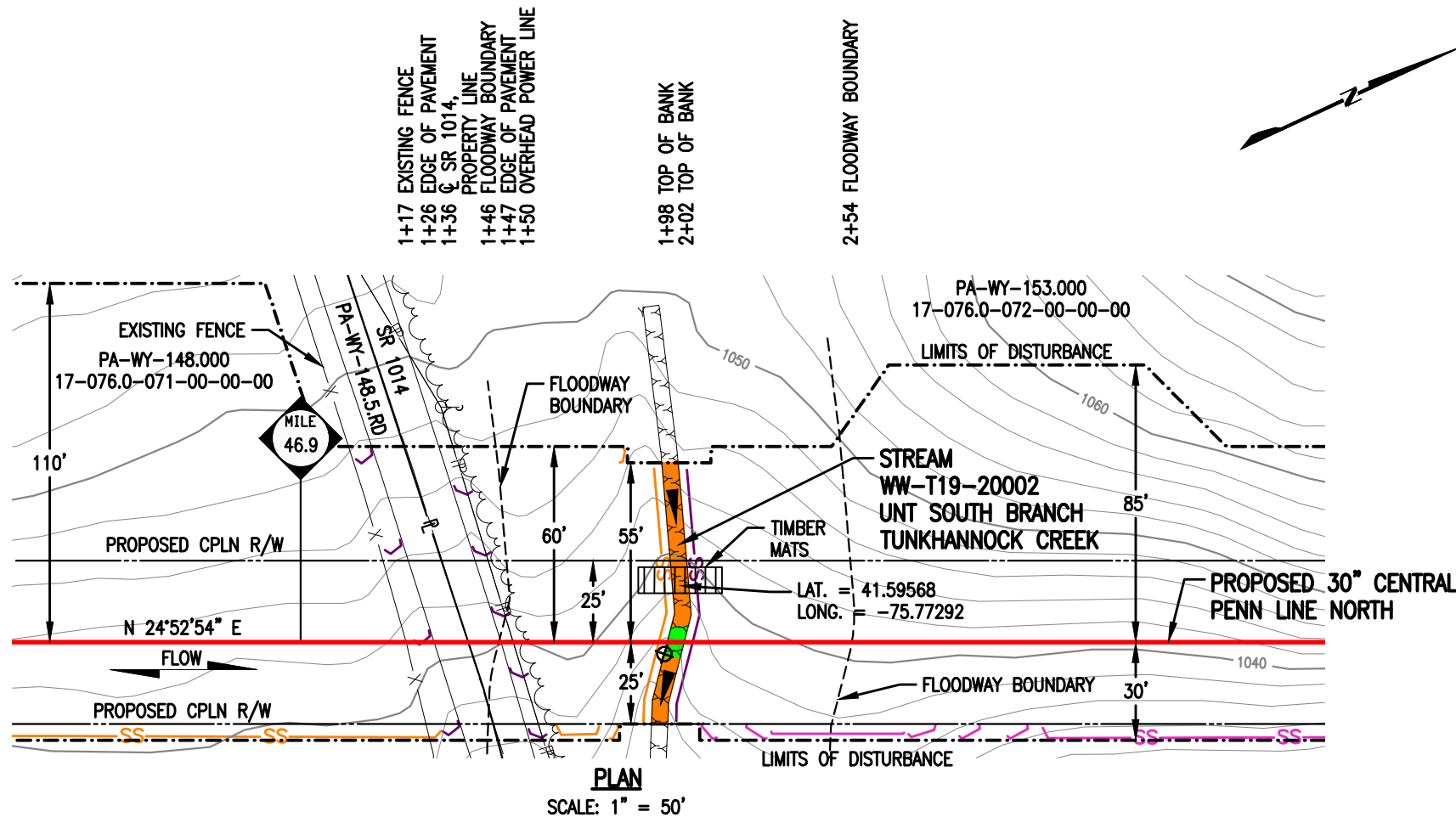
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T10-20003 ● M-0058 M.P. 0.23 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 12/30/14	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/M-0058-0.22-02	SHEET 1	
IWO: 1161481		10/18/2016	tiicurli	OF 1	



STREAM DISTURBANCE:

STREAM WW-T19-20002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0081
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0093
TEMPORARY FLOODWAY DISTURBANCE	0.1809
PERMANENT FLOODWAY DISTURBANCE	0.0236
TOTAL FLOODWAY DISTURBANCE	0.2045

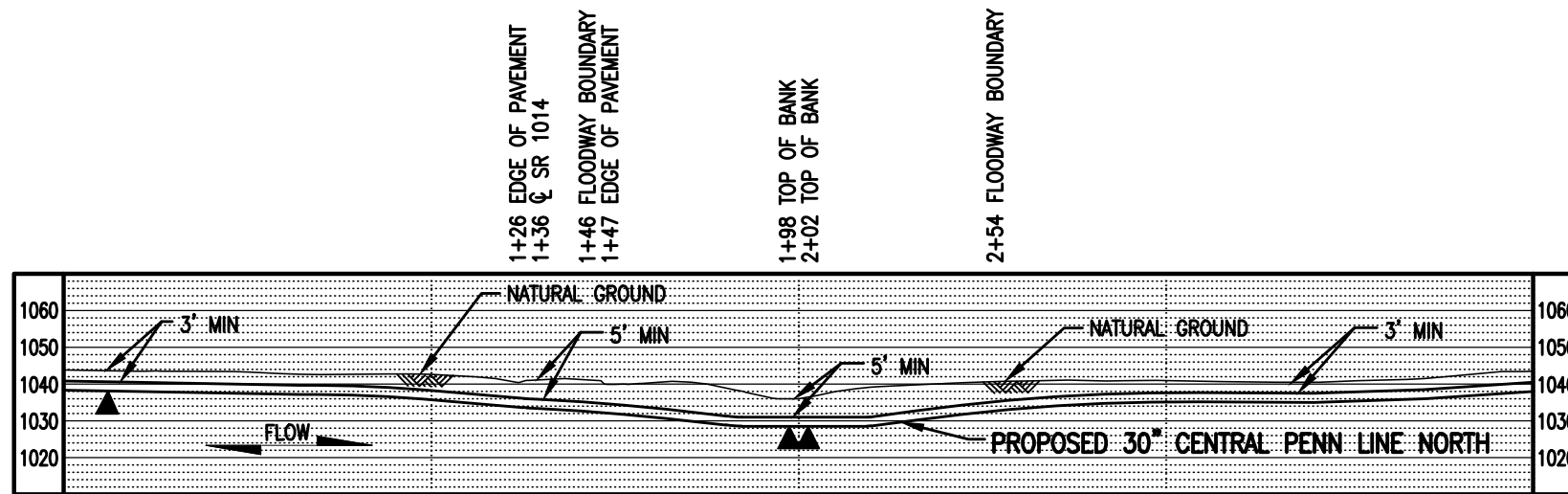
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.14
STREAM LENGTH	81.05

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2476+47 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 42' LT. OF M.P. 46.90, ELEV. = 1045.45' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/46.92-01



LEGEND

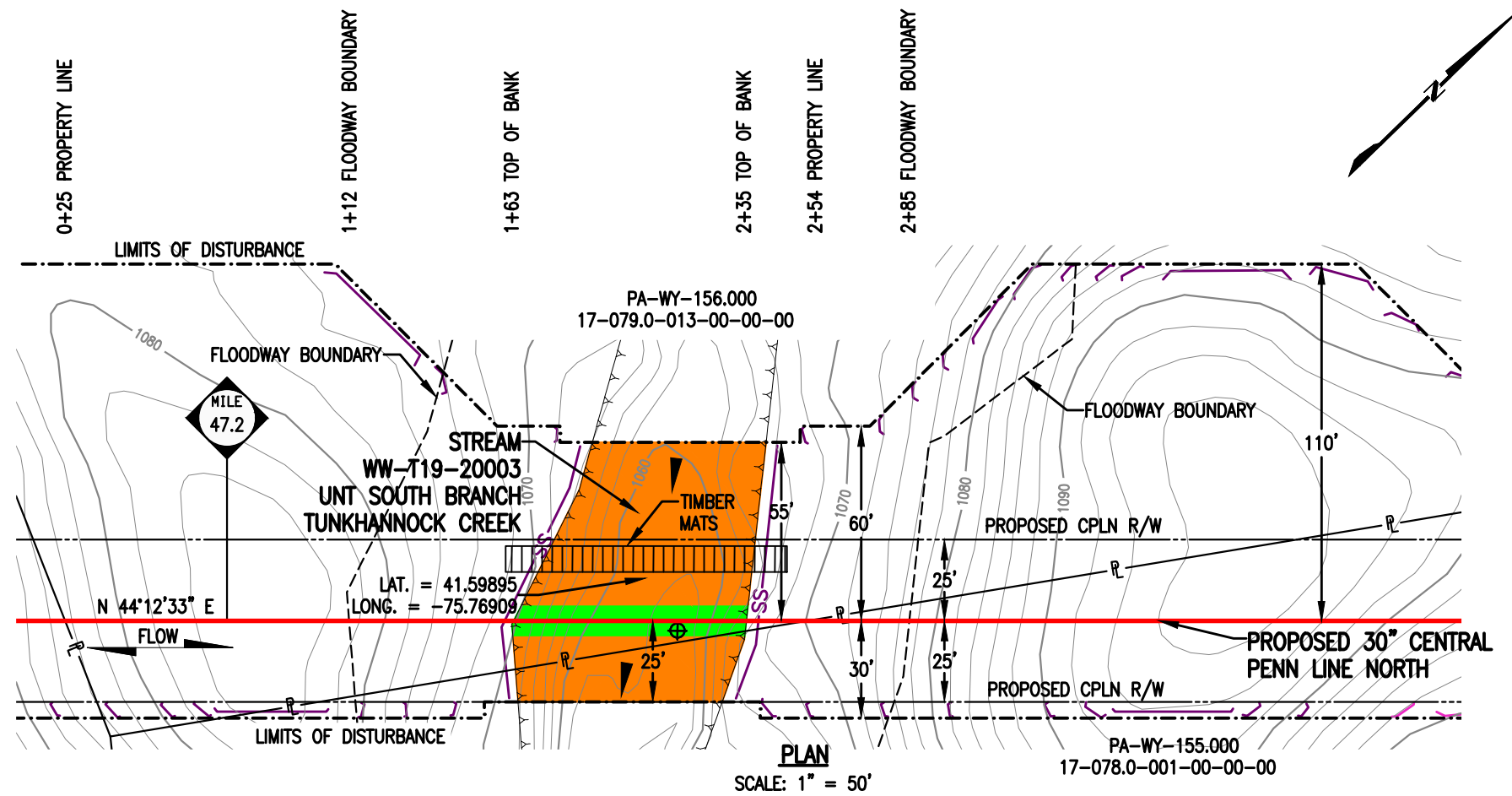
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- PROPOSED CPLN R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- ▲ WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- SS 12" SEDIMENT BARRIER
- SS 18" SEDIMENT BARRIER
- SS 24" SEDIMENT BARRIER
- SS 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T19-20002 © M.P. 46.92 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA							
NO.		DATE				SCALE: 1" = 50'					
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 08/20/14	ISSUED FOR BID:	SCALE: 1" = 50'	
1	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
DRAWING NUMBER:		24-1601-70-09-A/46.92-02		SHEET 1		OF 1		<small>10:24am 10/20/2016 t1curll</small> <small>K:\103646-CPLN\Maping\Waterbodies\Revised 105\24-1601-70-09-A_46.92-02.dwg</small>			



STREAM DISTURBANCE:

STREAM WW-T19-20003	ACRE
TEMPORARY STREAM DISTURBANCE	0.1004
PERMANENT STREAM DISTURBANCE	0.0164
TOTAL STREAM DISTURBANCE	0.1168
TEMPORARY FLOODWAY DISTURBANCE	0.2236
PERMANENT FLOODWAY DISTURBANCE	0.0233
TOTAL FLOODWAY DISTURBANCE	0.2469

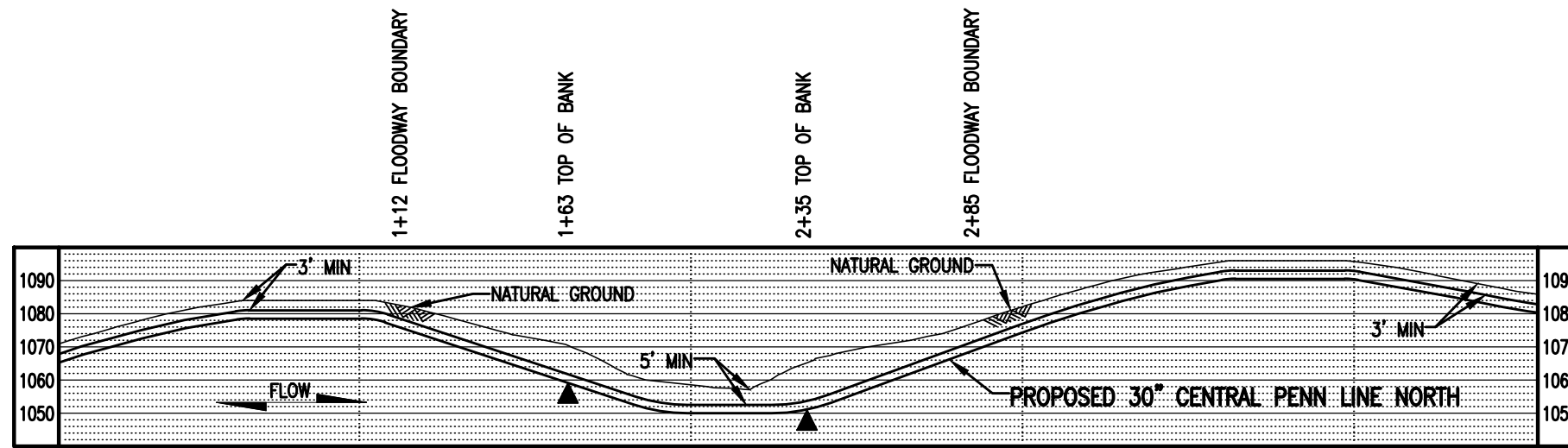
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	71.79
STREAM LENGTH	80.77

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN; THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2492+42 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 25' LT. OF M.P. 47.22, ELEV. = 1069.46' (NAVD88).



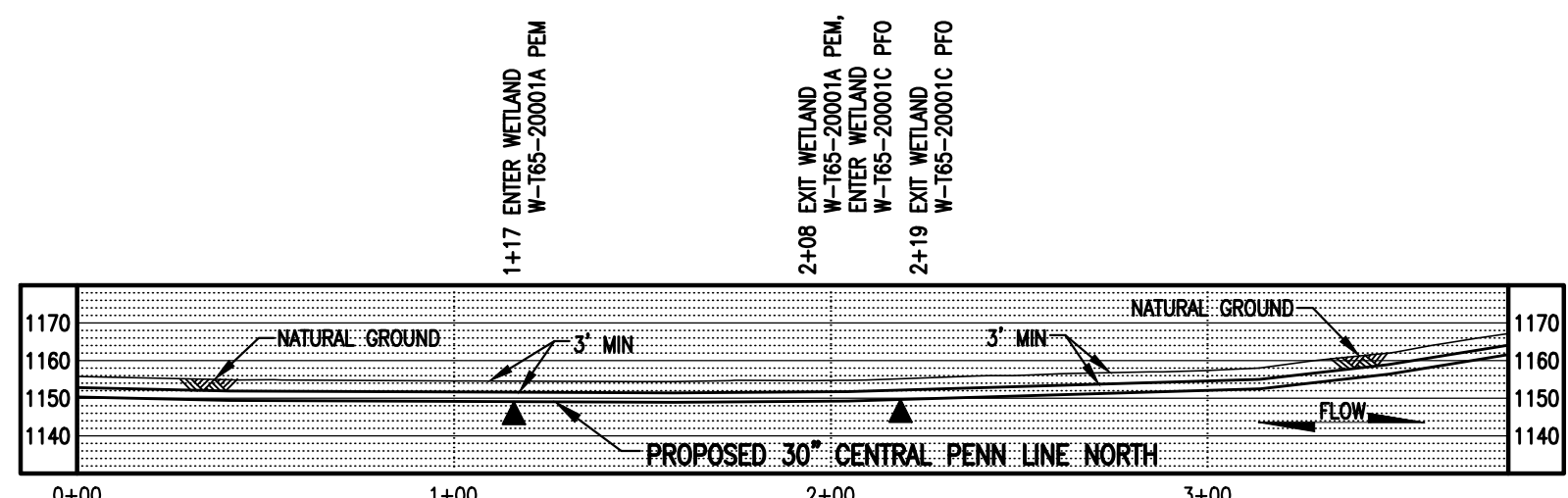
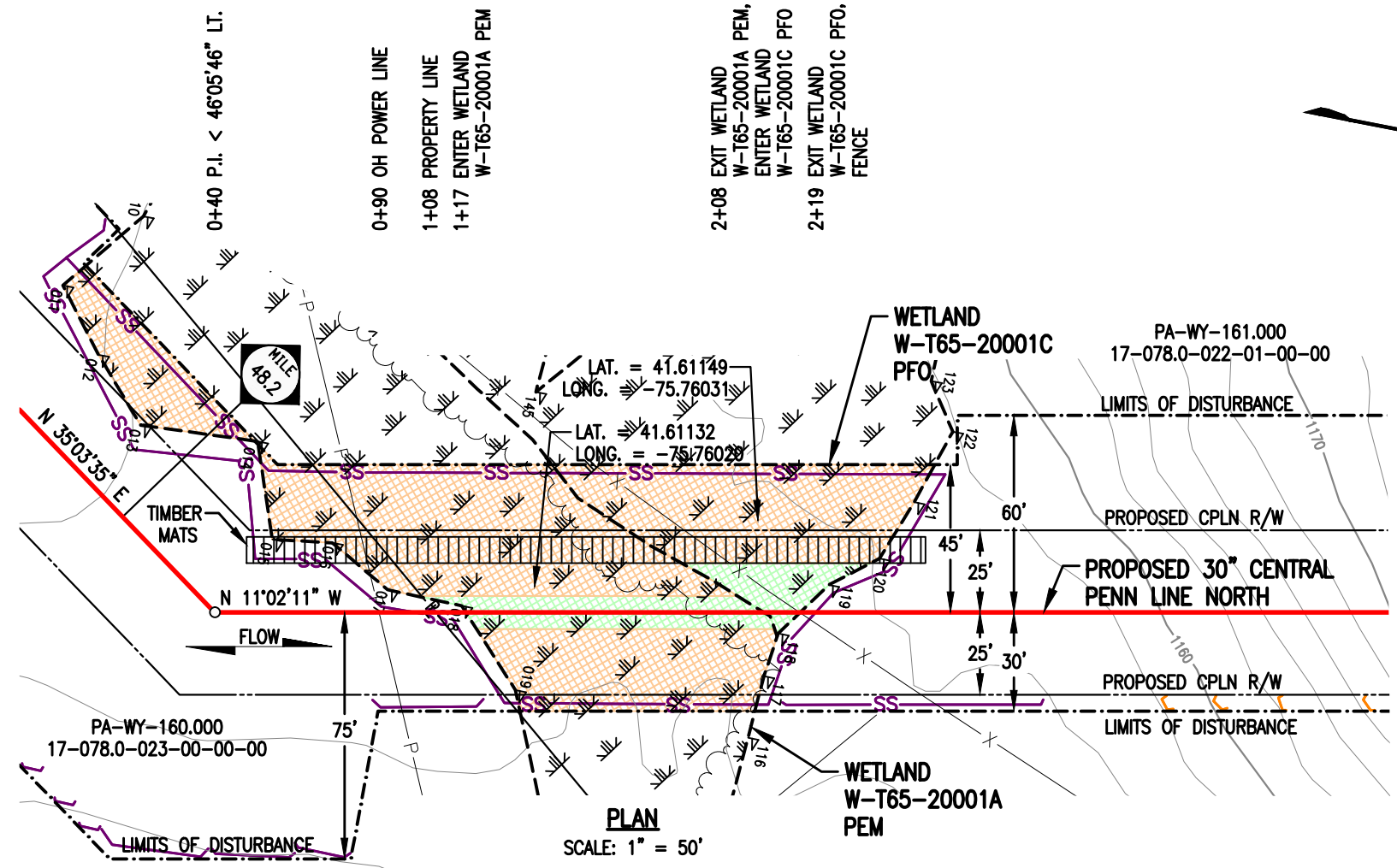
THIS DRAWING SUPERCEDES 24-1601-70-09-A/47.23-01



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T19-20003 © M.P. 47.22 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 12/30/14	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	MH	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/47.23-02	SHEET 1
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	W.O. NUMBER: 1161481	DATE: 9/20/2016	1:42pm	OF 1



WETLAND DISTURBANCE:

WETLAND W-T65-20001A	ACRE
TEMPORARY DISTURBANCE	0.1614
PERMANENT DISTURBANCE	0.0210
TOTAL DISTURBANCE	0.1824

WETLAND W-T65-20001C	ACRE
TEMPORARY DISTURBANCE	0.0628
PERMANENT DISTURBANCE	0.0119
TOTAL DISTURBANCE	0.0747

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 2545+96 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 655.74' RT. OF M.P. 48.19, ELEV. = 1138.08' (NAVD88).

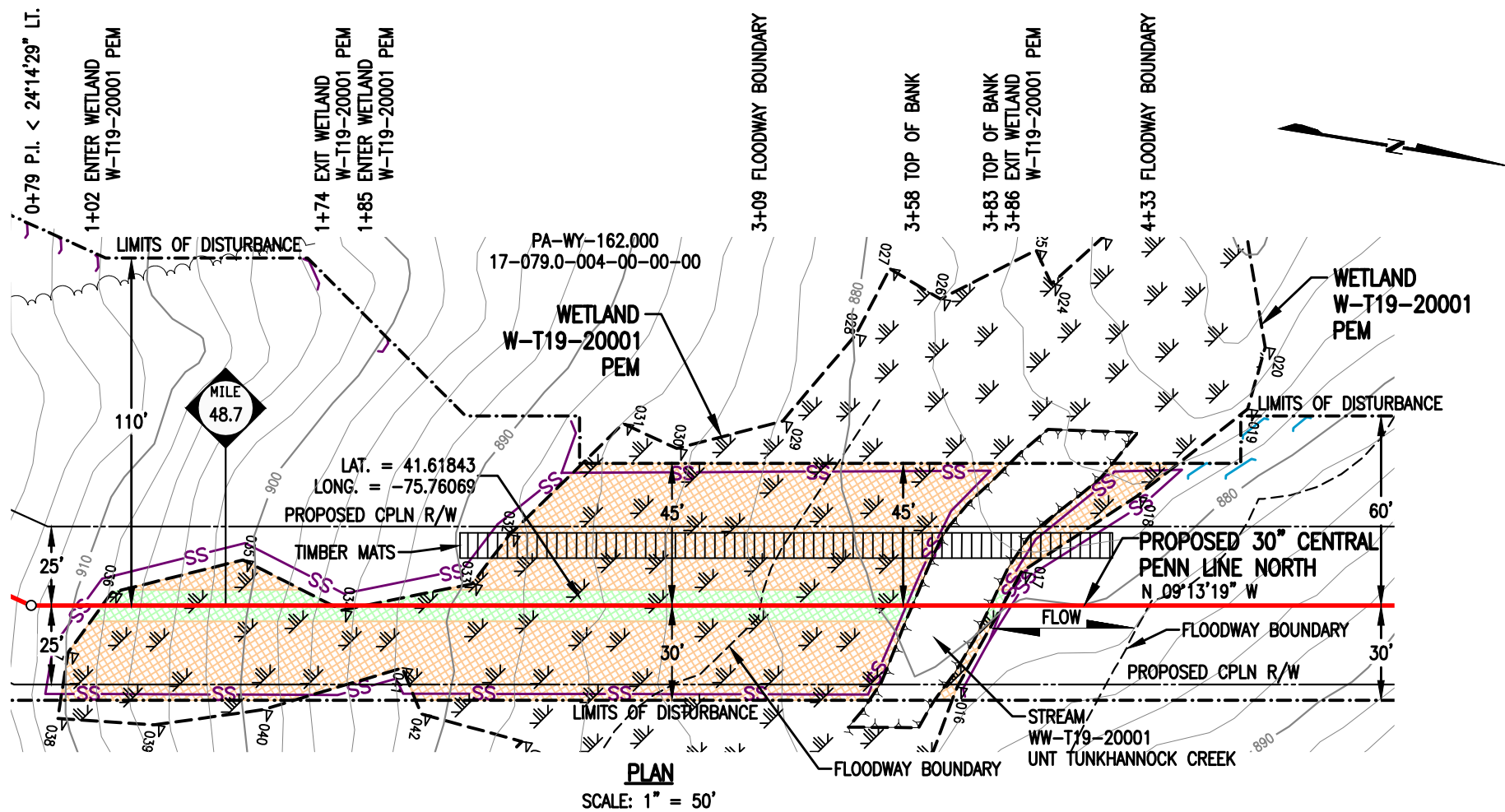


LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT WETLAND IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY WETLAND IMPACT
	EXISTING POWER LINE		FLOODWAY BOUNDARY		
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

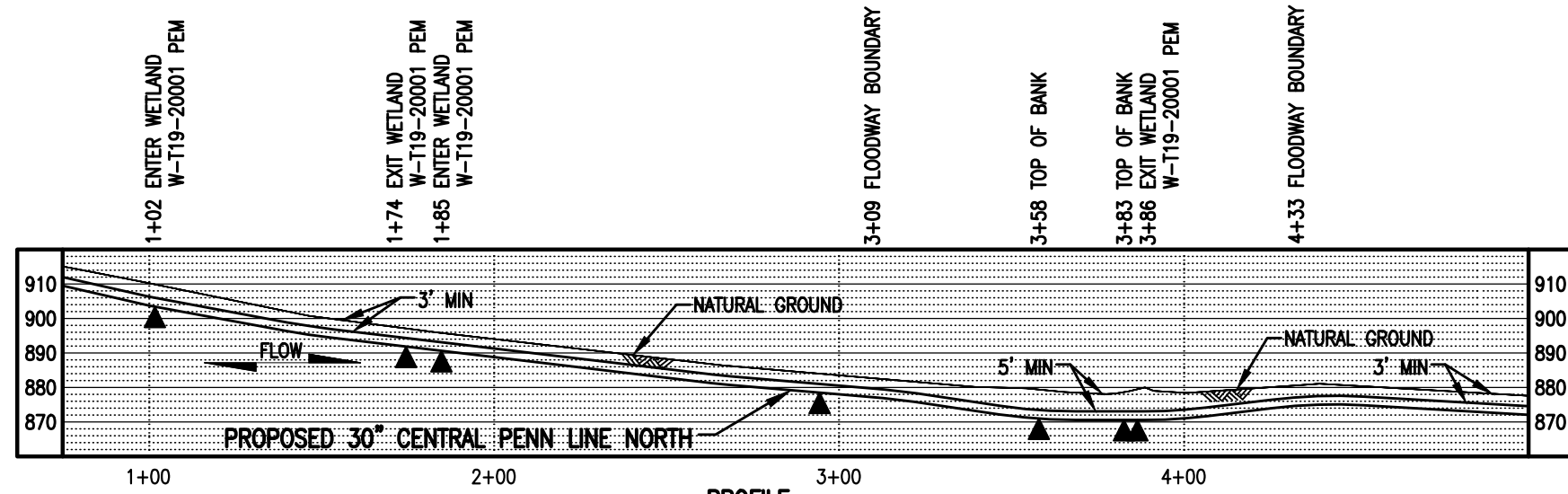
DRAWING NO.		REFERENCE TITLE	

<p>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T65-20001A @ M.P. 48.23 & W-T65-20001C @ M.P. 48.24 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA</p>				
DRAWN BY: TL CHECKED BY: CLR APPROVED BY: MJH W.O. NO.: 1161481	DATE: 06/17/16 DATE: 06/17/16 DATE: 06/17/16	ISSUED FOR BID: ISSUED FOR CONSTRUCTION: DRAWING NUMBER: 24-1601-70-20-A/48.22-01 <small>9/20/2016 s1inrh K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_48.22-01.dwg</small>	SCALE: 1" = 50' REVISION: 0 SHEET 1 OF 1	



WETLAND DISTURBANCE:

WETLAND W-T19-20001 (EV)	ACRE
TEMPORARY DISTURBANCE	0.2914
PERMANENT DISTURBANCE	0.0564
TOTAL DISTURBANCE	0.3478



NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 2570+95 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 65' LT. OF M.P. 48.74, ELEV. = 878.49' (NAVD88).

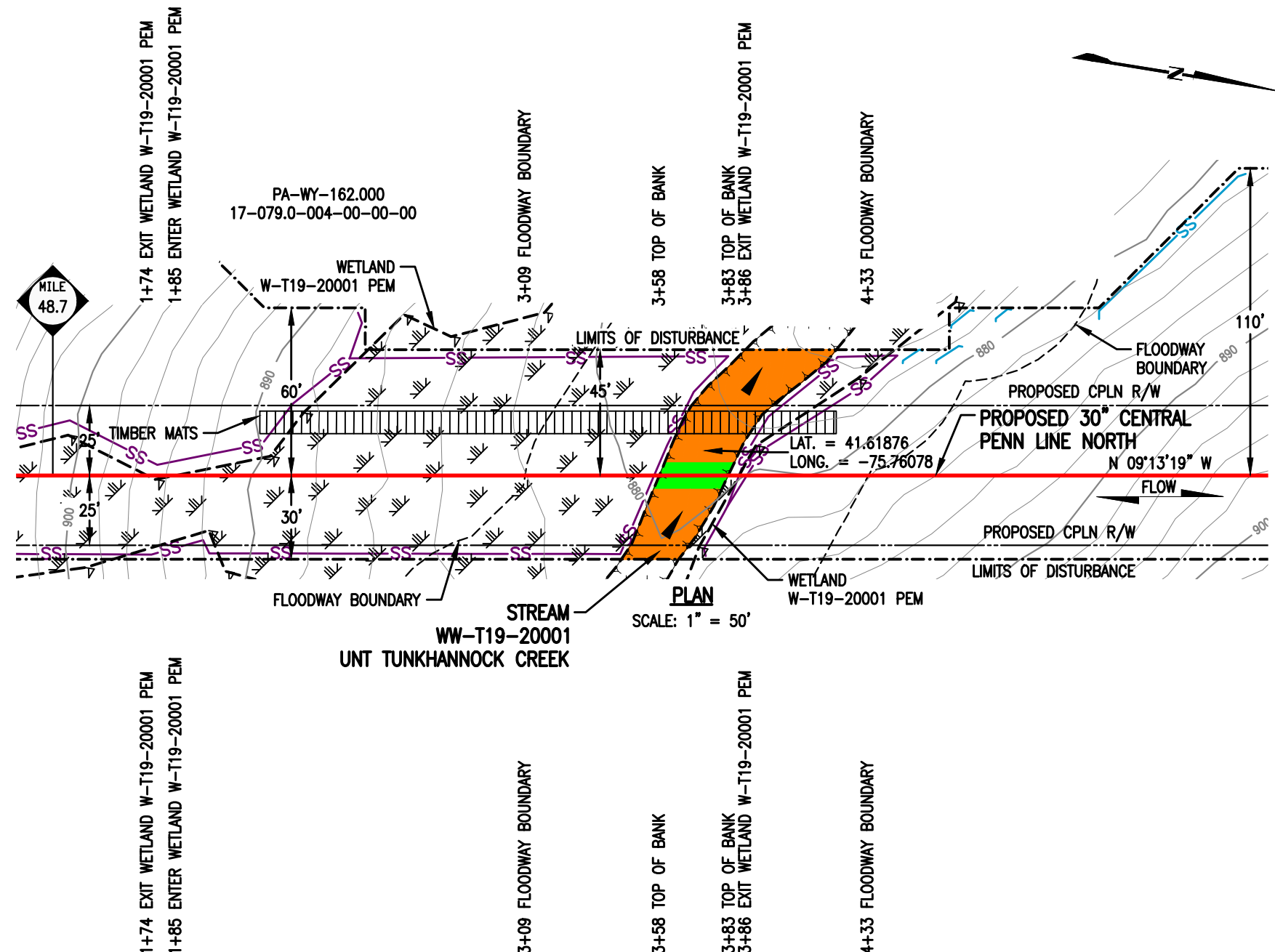


THIS DRAWING SUPERCEDES 24-1601-70-20-A/48.69-01

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT WETLAND IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY WETLAND IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		12" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		18" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		24" SEDIMENT BARRIER
	FOREIGN PIPELINE		WATERBODY		32" SEDIMENT BARRIER
	WETLAND AREA		TREE LINE		TOP OF BANK
	EXISTING POWER LINE		FLOODWAY BOUNDARY		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T19-20001 © M.P. 48.72 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: AO		DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/48.69-02	SHEET 1	
W.O. NUMBER: 1161481		9/20/2016	12:34pm	OF 1	



STREAM DISTURBANCE:

STREAM WW-T19-20001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0397
PERMANENT STREAM DISTURBANCE	0.0057
TOTAL STREAM DISTURBANCE	0.0454
TEMPORARY FLOODWAY DISTURBANCE	0.0896
PERMANENT FLOODWAY DISTURBANCE	0.0110
TOTAL FLOODWAY DISTURBANCE	0.1006

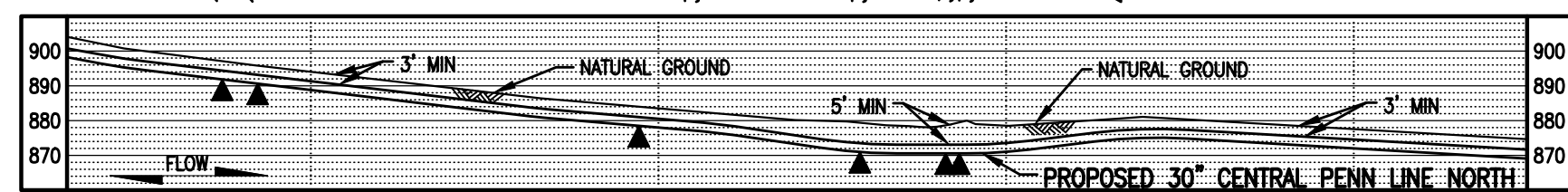
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	24.71
STREAM LENGTH	87.01

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2570+95 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 65' LT. OF M.P. 48.74, ELEV. = 878.48' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



THIS DRAWING SUPERCEDES 24-1601-70-09-A/48.74-01

LEGEND

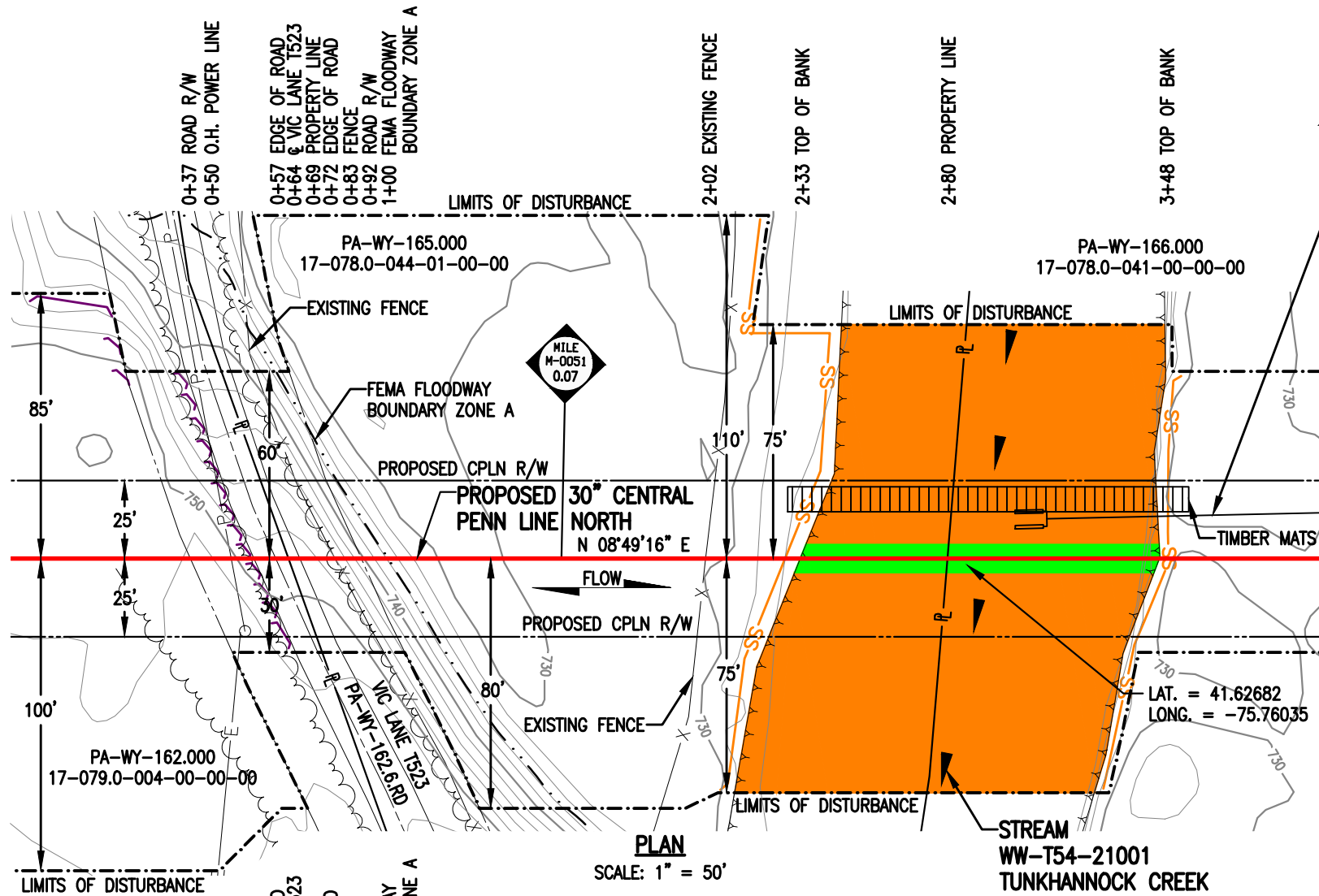
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- - - EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- F — FOREIGN PIPELINE
- - - WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

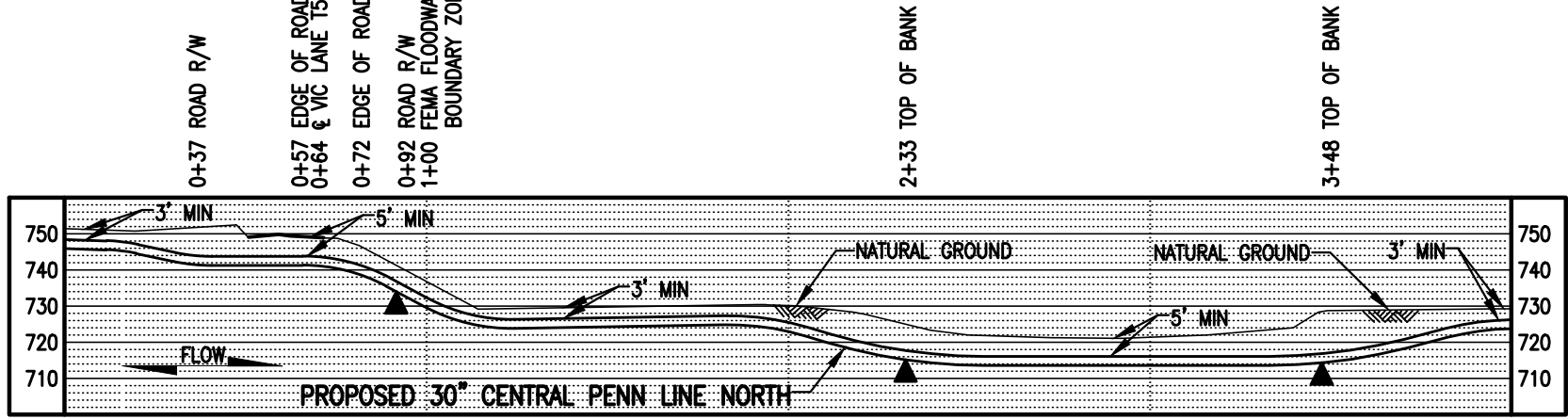
DRAWING NO.	REFERENCE TITLE	TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC								
		WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS								
		ATLANTIC SUNRISE PROJECT								
		PROPOSED 30" CENTRAL PENN LINE NORTH								
		STREAM CROSSING WW-T19-20001								
		① M.P. 48.74								
		NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA								
		SCALE: 1" = 50'								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 12/30/14	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15		
2	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH				
							DRAWING NUMBER: 24-1601-70-09-A/48.74-02	SHEET 1		
							1:15pm 9/20/2016 mIphon	OF 1		
							W.O. NUMBER: 1161481			



STREAM DISTURBANCE:

STREAM WW-T54-21001	ACRE
TEMPORARY STREAM DISTURBANCE	0.3552
PERMANENT STREAM DISTURBANCE	0.0263
TOTAL STREAM DISTURBANCE	0.3815
TEMPORARY FLOODWAY DISTURBANCE	4.1235
PERMANENT FLOODWAY DISTURBANCE	0.3523
TOTAL FLOODWAY DISTURBANCE	4.4758

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	115.08
STREAM LENGTH	152.36



GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T54-21001 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 2640+88 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. IRON ROD - 79.53' LT. OF M-0051 M.P. 0.04, ELEV. = 745.41' (NAVD88).



LEGEND

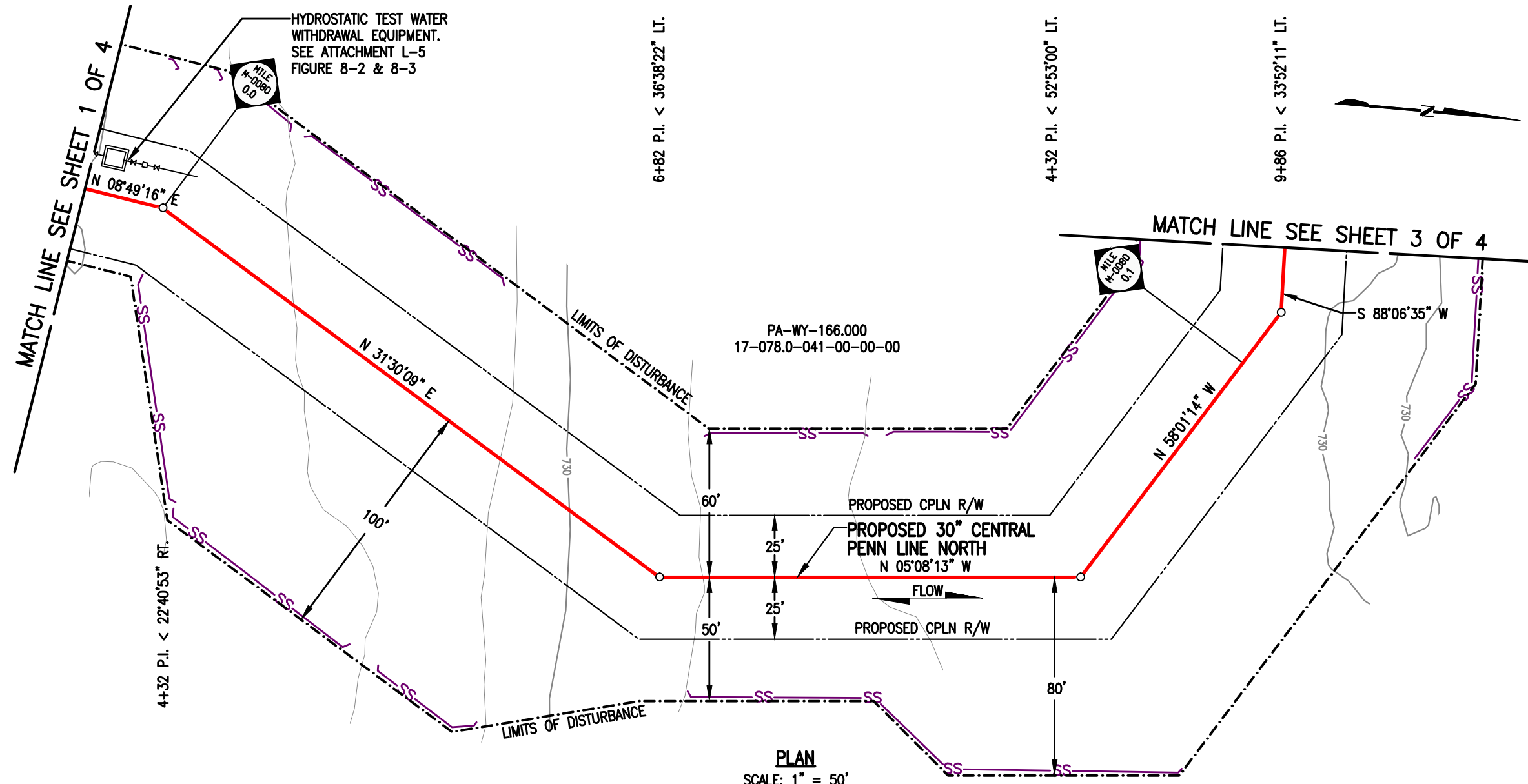
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

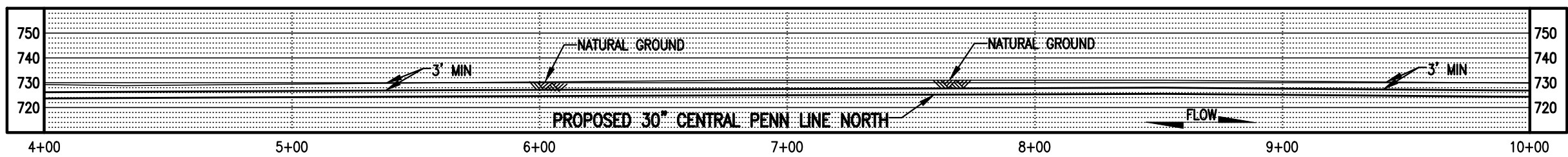
	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T54-21001 © M-0051 M.P. 0.08 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	10/13/16	DG	ISSUED FOR PADEP SUBMITTAL #21161481	CLR	MJH
DRAWN BY: TL		DATE: 06/16/16	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: CLR		DATE: 06/28/16	ISSUED FOR CONSTRUCTION:	REVISION: 0	
APPROVED BY: MJH		DATE: 06/29/16	DRAWING NUMBER: 24-1601-70-09-A/M-0051-0.08-01	SHEET 1	
W.O. NUMBER: 1161481		10/20/2016	OF 4		

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 4



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND	
	PROPOSED 30" CENTRAL PENN LINE NORTH
	EXISTING PIPELINES
	EXISTING TGPL R/W
	LIMITS OF DISTURBANCE
	PROPOSED CPLN R/W
	PROPERTY LINE
	FOREIGN PIPELINE
	WETLAND AREA
	STREAM FLOW
	EXISTING POWER LINE
	EXISTING FENCE
	WETLAND FLAGS
	PHOTO DATA POINT
	WETLAND DATA POINT
	UPLAND DATA POINT
	WELL POINT
	TRENCH PLUG
	WATERBODY
	TREE LINE
	FLOODWAY BOUNDARY
	FEMA FLOODWAY BOUNDARY
	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK
	PERMANENT STREAM IMPACT
	TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

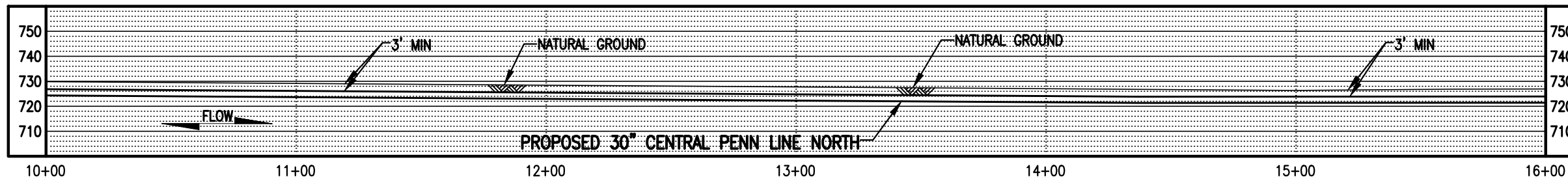
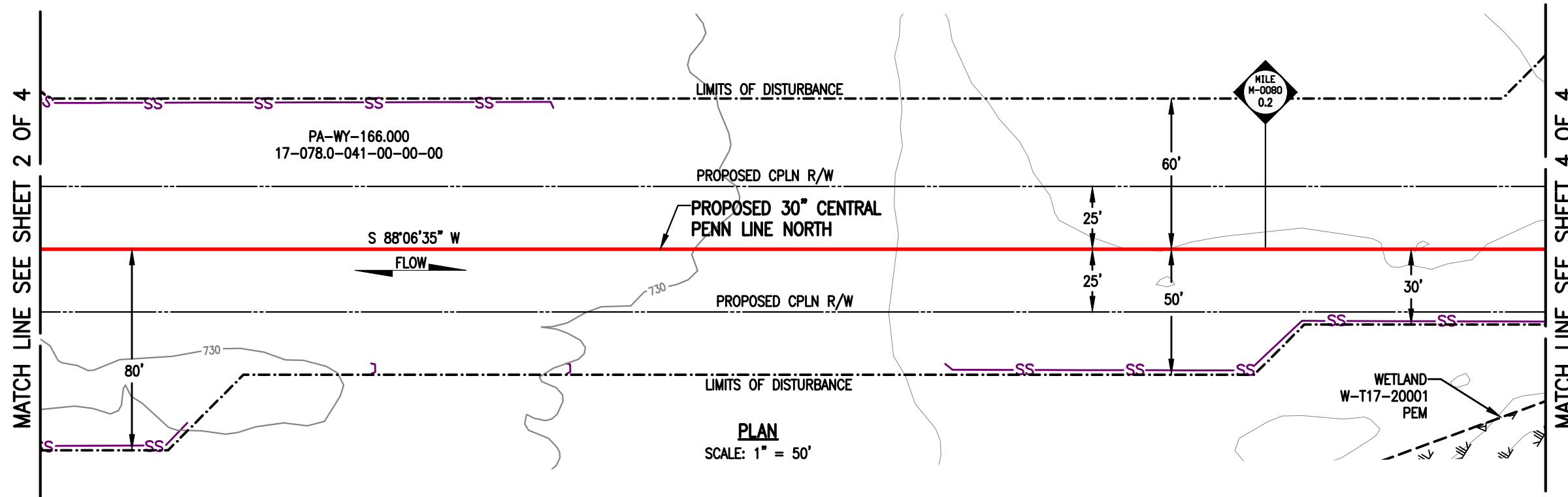
DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	DG	ISSUED FOR PADEP SUBMITTAL #21161481	CLR	MJH	

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T54-21001
© M-0051 M.P. 0.08
NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: TL	DATE: 06/16/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 06/28/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/29/16	DRAWING NUMBER: 24-1601-70-09-A/M-0051-0.08-01	SHEET 2
WC: 1161481	10/19/2016	1:56pm	OF 4

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 4



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

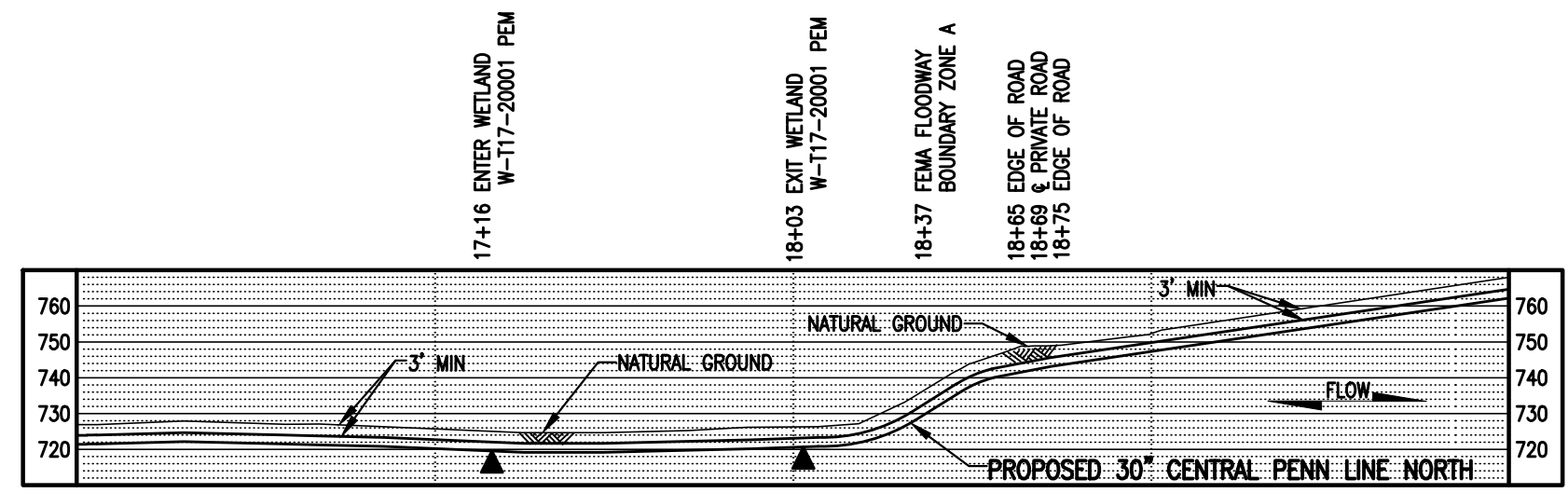
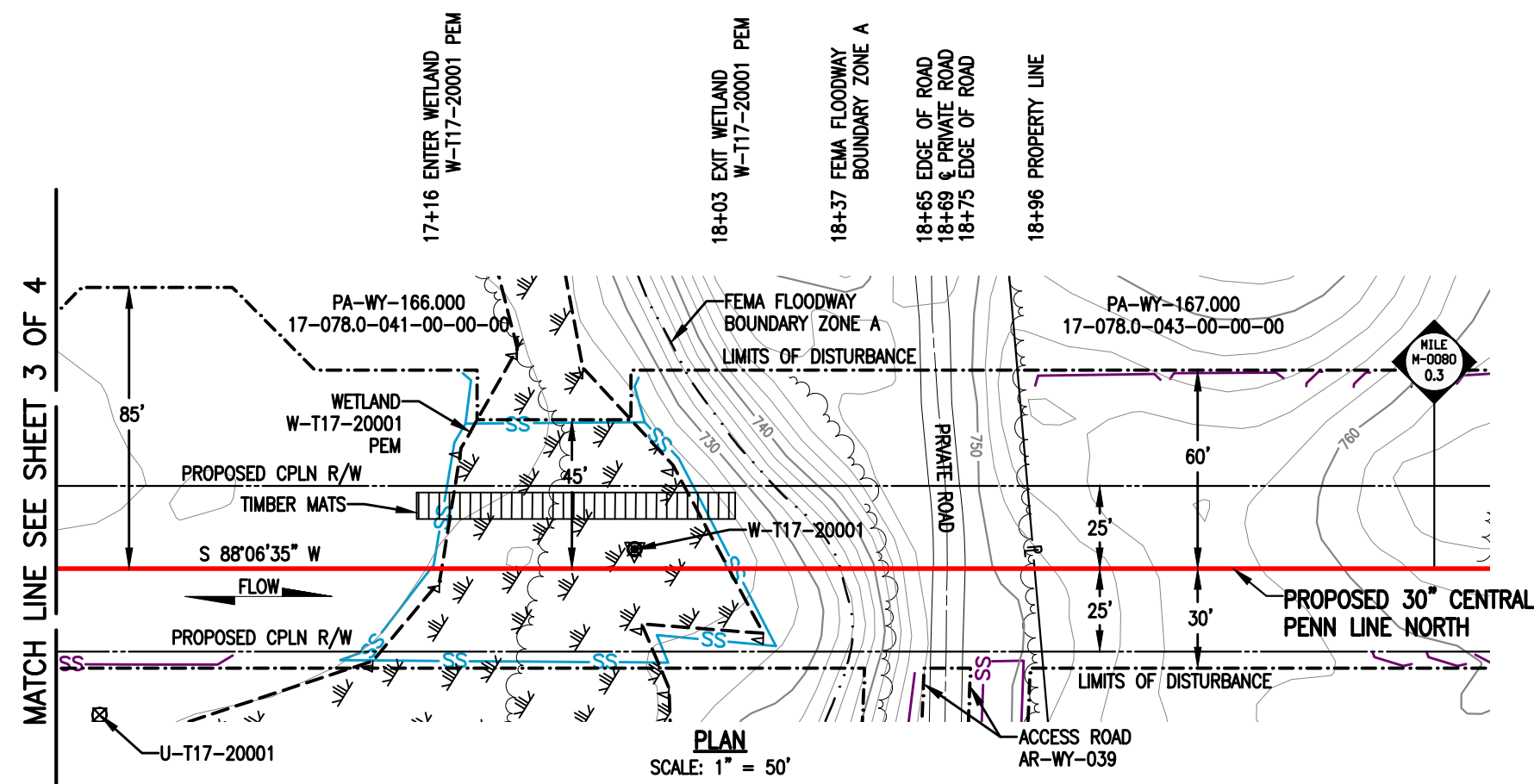
DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/13/16	DG	ISSUED FOR PADEP SUBMITTAL #21161481

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T54-21001
M-0051 M.P. 0.08
NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: TL	DATE: 06/16/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 06/28/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/29/16	DRAWING NUMBER: 24-1601-70-09-A/M-0051-0.08-01	SHEET 3
WC: 1161481		10/19/2016	OF 4

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 4



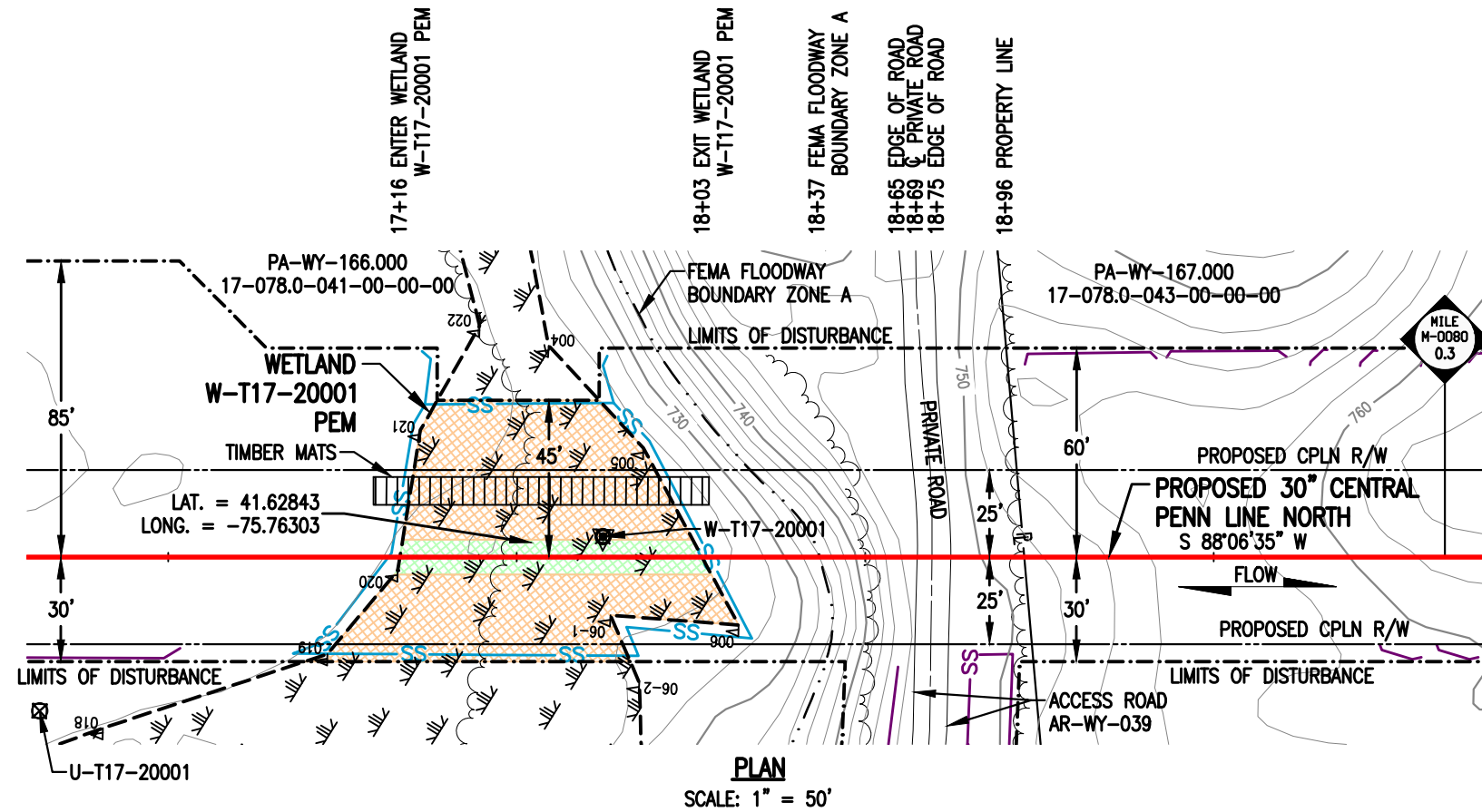
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		
	EXISTING TGPL R/W		WETLAND DATA POINT		
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		
	PROPOSED CPLN R/W		WELL POINT		
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	DG	ISSUED FOR PADEP SUBMITTAL #21161481	CLR	MJH	

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T54-21001
© M-0051 M.P. 0.08
NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: TL	DATE: 06/16/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 06/28/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/29/16	DRAWING NUMBER: 24-1601-70-09-A/M-0051-0.08-01	SHEET 4
WC: 1161481		10/19/2016	OF 4



PLAN
SCALE: 1" = 50'

WETLAND DISTURBANCE:

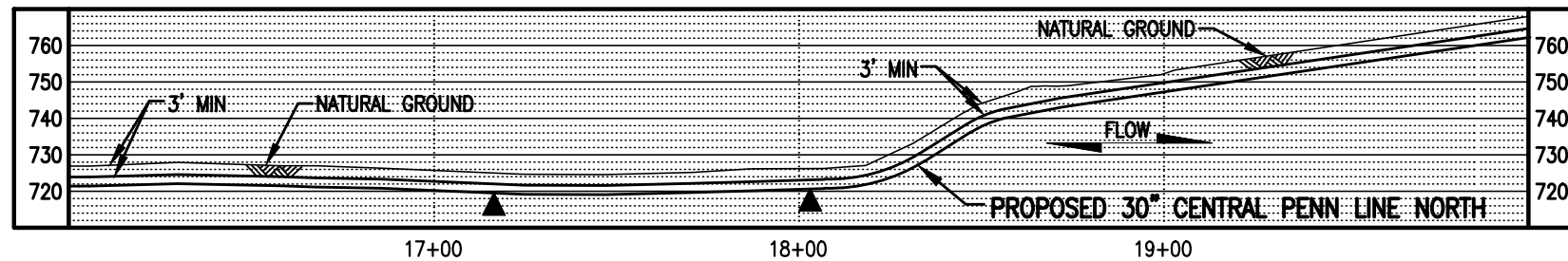
WETLAND W-T17-20001	ACRE
TEMPORARY DISTURBANCE	0.1148
PERMANENT DISTURBANCE	0.0199
TOTAL DISTURBANCE	0.1347

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0080 STATION 12+77 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 1' RT. OF M-0080 M.P. 0.27, ELEV. = 748.89' (NAVD88).



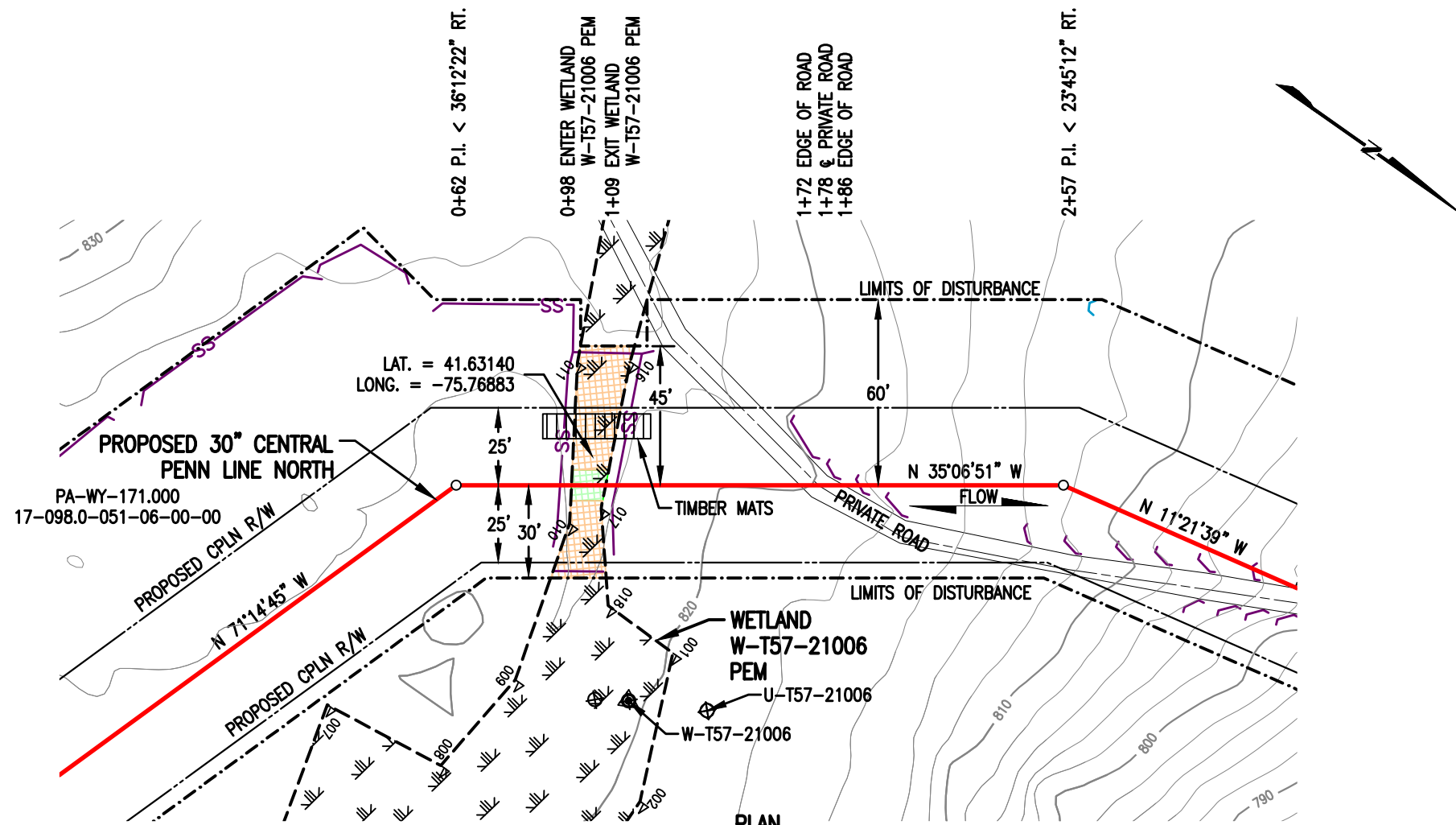
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



THIS DRAWING SUPERCEDES 24-1601-70-20-A/49.53-01

LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	EXISTING POWER LINE		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY
	PERMANENT WETLAND IMPACT		12" SEDIMENT BARRIER
	TEMPORARY WETLAND IMPACT		18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
			TOP OF BANK

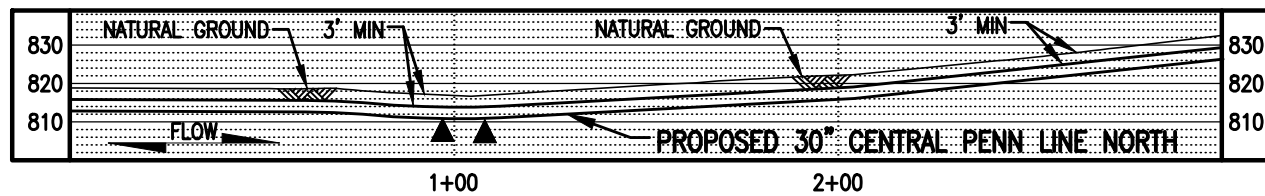
DRAWING NO.		REFERENCE TITLE	
		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T17-20001 M-0080-M.P. 0.25 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2
W.O. NO.	CHK.	APP.	
1161481	CLR	MJH	
DRAWN BY:	DLK	DATE:	06/20/16
CHECKED BY:	ML	DATE:	06/20/16
APPROVED BY:	MJH	DATE:	06/20/16
ISSUED FOR BID:		SCALE:	1" = 50'
ISSUED FOR CONSTRUCTION:		REVISION:	0
DRAWING NUMBER:	24-1601-70-20-A/M-0080-0.23-01		SHEET 1
W.O.:	1161481	OF	1



WETLAND DISTURBANCE:

WETLAND W-T57-21006	ACRE
TEMPORARY DISTURBANCE	0.0211
PERMANENT DISTURBANCE	0.0025
TOTAL DISTURBANCE	0.0236

PLAN
SCALE: 1" = 50'



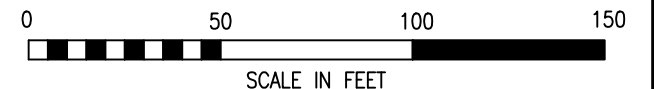
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0080 STATION 34+57 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 276.87' LT. OF M-0080 M.P. 0.67, ELEV. = 812.22' (NAVD88).



LEGEND

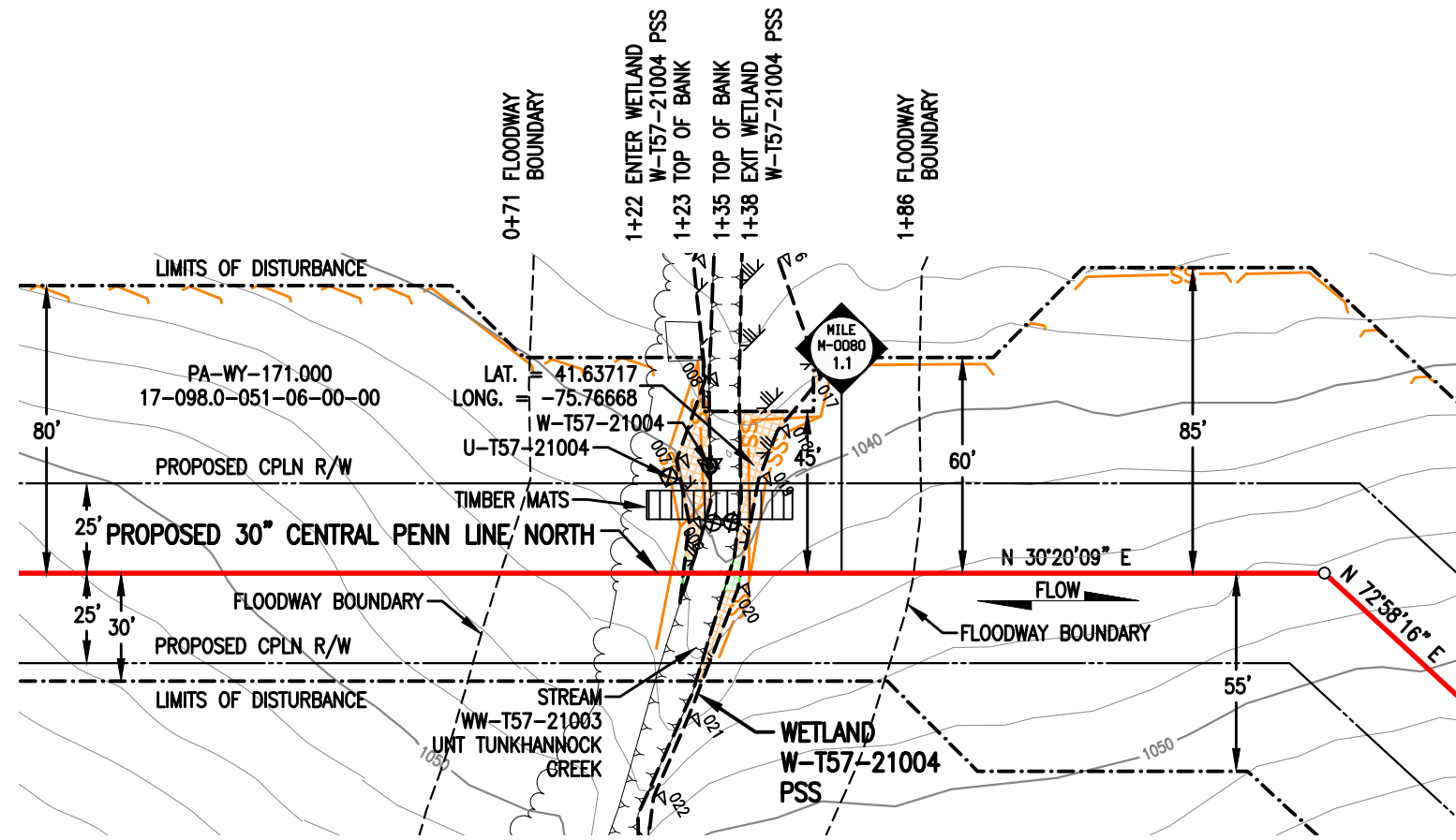
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- P — EXISTING POWER LINE
- X — EXISTING FENCE

- WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- WELL POINT
- TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

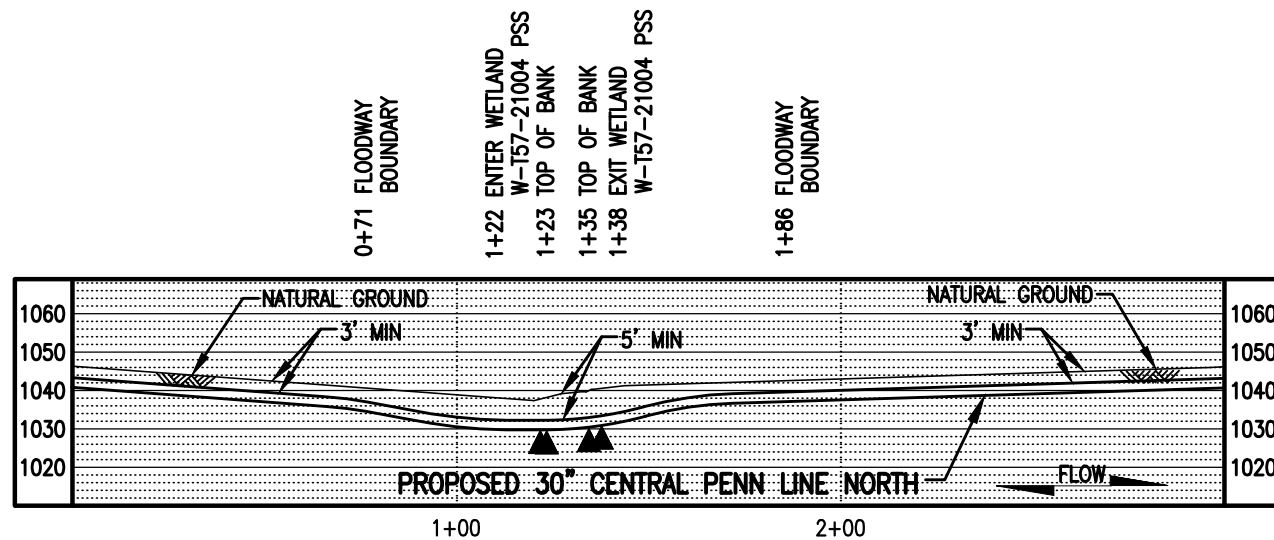
WOOD GROUP MUSTANG, INC.

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT

DRAWING NO.		REFERENCE TITLE		<p>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T57-21006 © M-0080 M.P. 0.66 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA</p>	
NO.		DATE			
0	10/13/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY:		MF	DATE:	06/20/16	ISSUED FOR BID:
CHECKED BY:		CLR	DATE:	06/20/16	ISSUED FOR CONSTRUCTION:
APPROVED BY:		MJH	DATE:	06/20/16	SCALE: 1" = 50'
DRAWING NUMBER:		24-1601-70-20-A/M-0080-0.65-01		SHEET 1	
W.O. NO.:		1161481		OF 1	



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

WETLAND DISTURBANCE:

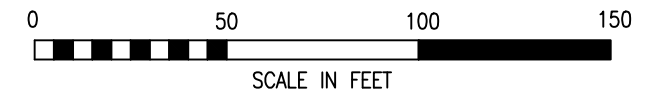
WETLAND W-T57-21004	ACRE
TEMPORARY DISTURBANCE	0.0135
PERMANENT DISTURBANCE	0.0011
TOTAL DISTURBANCE	0.0146

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0080 STATION 56+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 10.86' RT. OF M-0080 M.P. 1.03, ELEV. = 1058.85' (NAVD88).



LEGEND

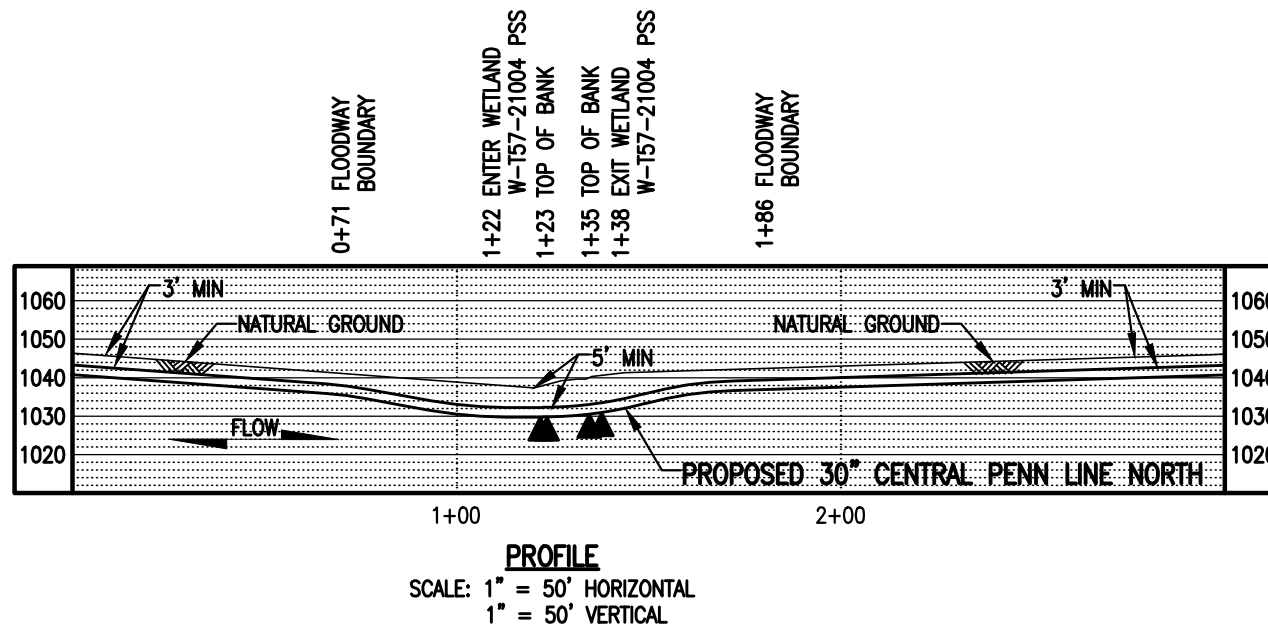
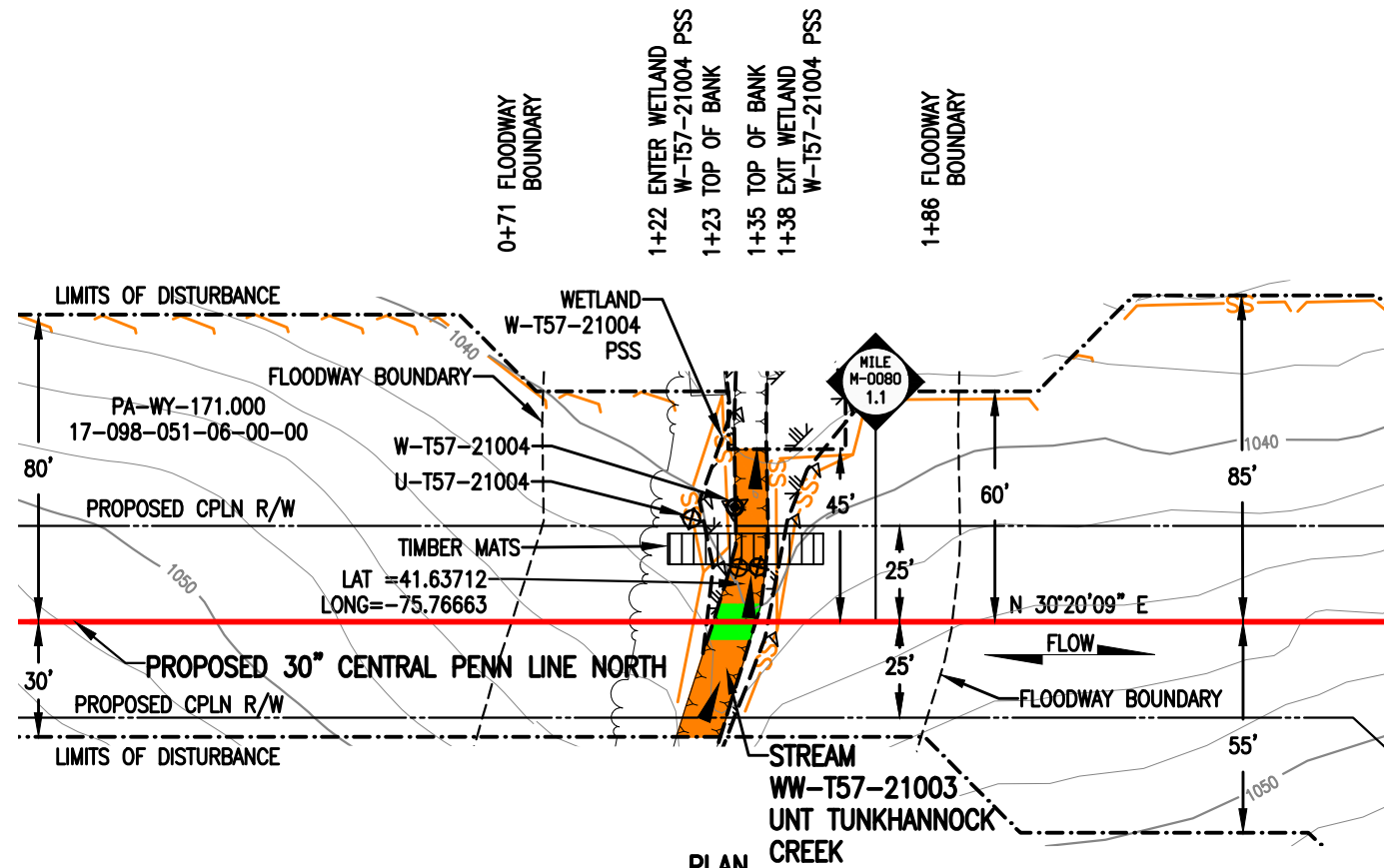
PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	TOP OF BANK
FOREIGN PIPELINE	WATERBODY	PERMANENT WETLAND IMPACT
WETLAND AREA	TREE LINE	TEMPORARY WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

DRAWING NO.	REFERENCE TITLE
0	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCRoACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T57-21004
© M-0080 M.P. 1.10
NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MF	DATE: 06/20/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/13/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 06/20/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 06/20/16	DRAWING NUMBER: 24-1601-70-20-A/M-0080-1.09-01	SHEET 1
							WC: 1161481		10-48am K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_M-0080-1.09-01.dwg	OF 1



STREAM DISTURBANCE:

STREAM WW-T57-21003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0146
PERMANENT STREAM DISTURBANCE	0.0025
TOTAL STREAM DISTURBANCE	0.0171
TEMPORARY FLOODWAY DISTURBANCE	0.1663
PERMANENT FLOODWAY DISTURBANCE	0.0227
TOTAL FLOODWAY DISTURBANCE	0.1890

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	11.10
STREAM LENGTH	77.96

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR STREAM WW-T57-21003 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. FLOODWAY-WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO M-0080 STATION 56+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

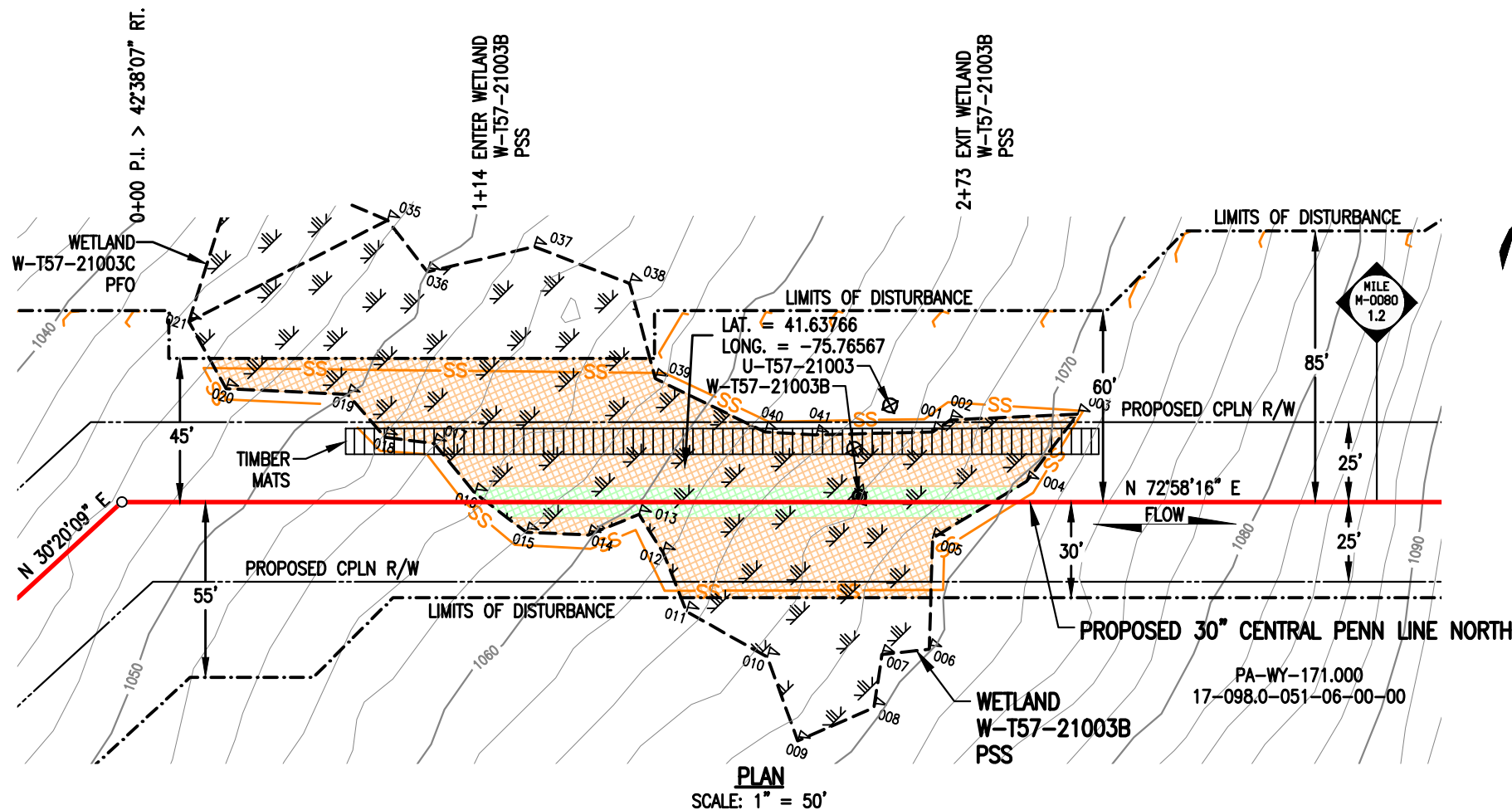
1. T.B.M. SURVEY CONTROL POINT - 10.86' RT. OF M-0080 M.P. 1.03, ELEV. = 1058.85' (NAVD88).



LEGEND

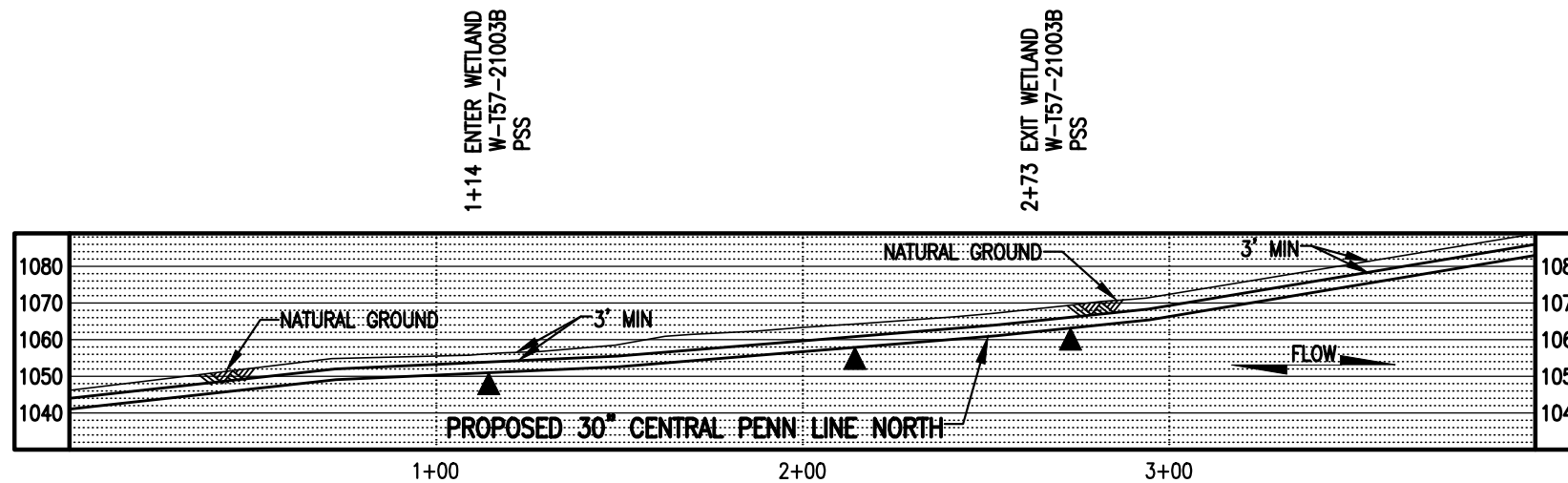
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.	REFERENCE TITLE	TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T57-21003 M-0080 M.P. 1.09 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AT	DATE: 06/24/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/13/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: MRL	DATE: 06/24/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 06/24/16	DRAWING NUMBER: 24-1601-70-09-A/M-0080-1.10-01	SHEET 1
							WC: 1161481		10/18/2016	OF 1



WETLAND DISTURBANCE:

WETLAND W-T57-21003B	ACRE
TEMPORARY DISTURBANCE	0.1957
PERMANENT DISTURBANCE	0.0364
TOTAL DISTURBANCE	0.2321



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0080 STATION 60+42 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 10.74' RT. OF M-0080 M.P. 1.03, ELEV. = 1058.86' (NAVD88).



LEGEND

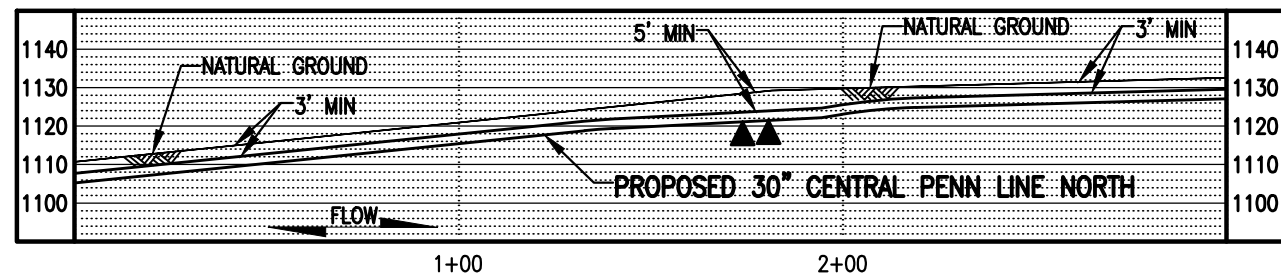
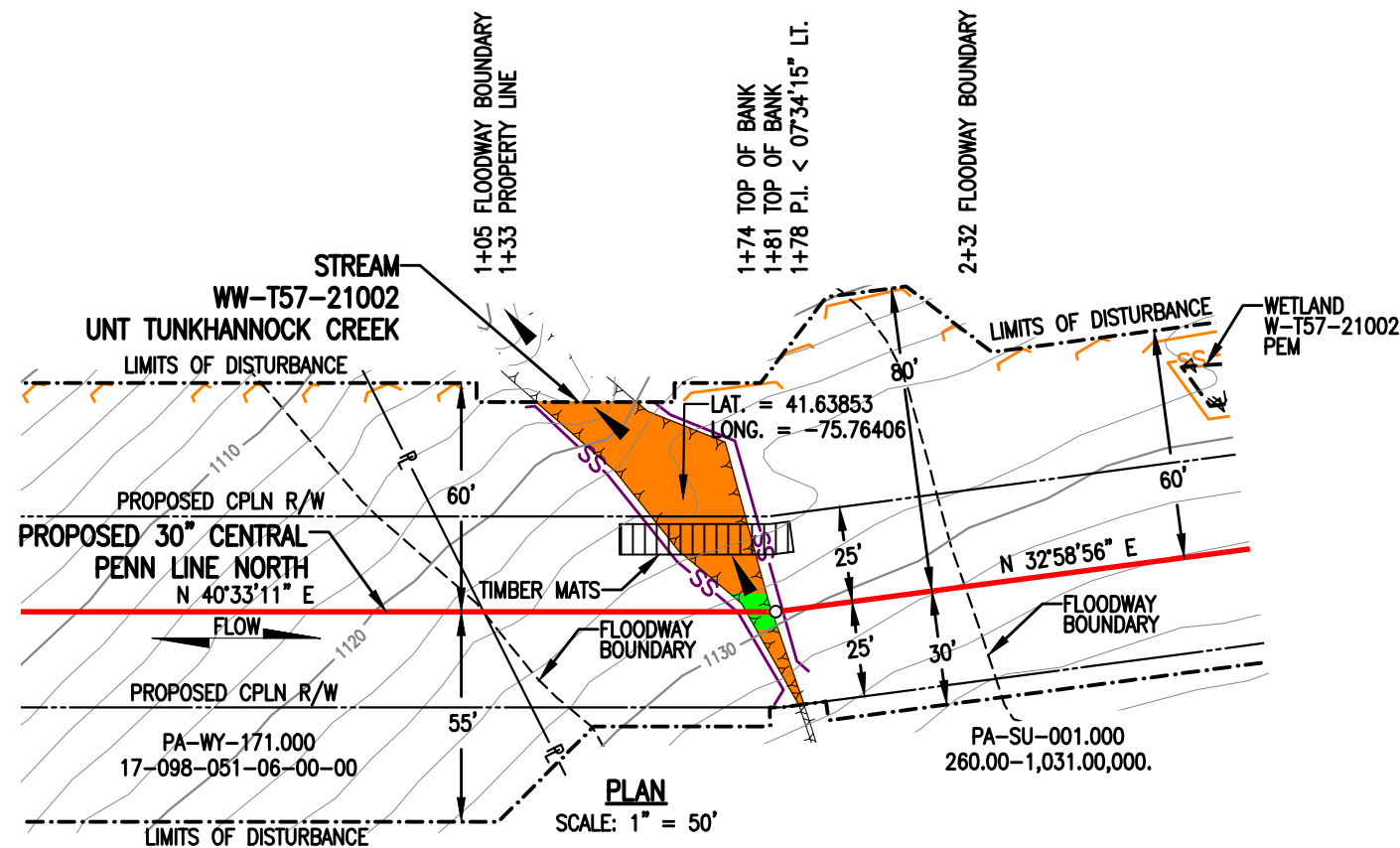
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT WETLAND IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY WETLAND IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		12" SEDIMENT BARRIER
	FOREIGN PIPELINE		WATERBODY		TOP OF BANK
	WETLAND AREA		TREE LINE		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FLOODWAY BOUNDARY		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE				

DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/13/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING WW-T57-21003B
M-0080 M.P. 1.15
NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: MF	DATE: 06/20/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-20-A/M-0080-1.15-01	SHEET 1
WC: 1161481		9/29am 9/21/2016 olgrego	OF 1



STREAM DISTURBANCE:

STREAM WW-T57-21002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0308
PERMANENT STREAM DISTURBANCE	0.0016
TOTAL STREAM DISTURBANCE	0.0324
TEMPORARY FLOODWAY DISTURBANCE	0.2294
PERMANENT FLOODWAY DISTURBANCE	0.0275
TOTAL FLOODWAY DISTURBANCE	0.2569
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	6.72
STREAM LENGTH	98.60

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T57-21002 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 66+36 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

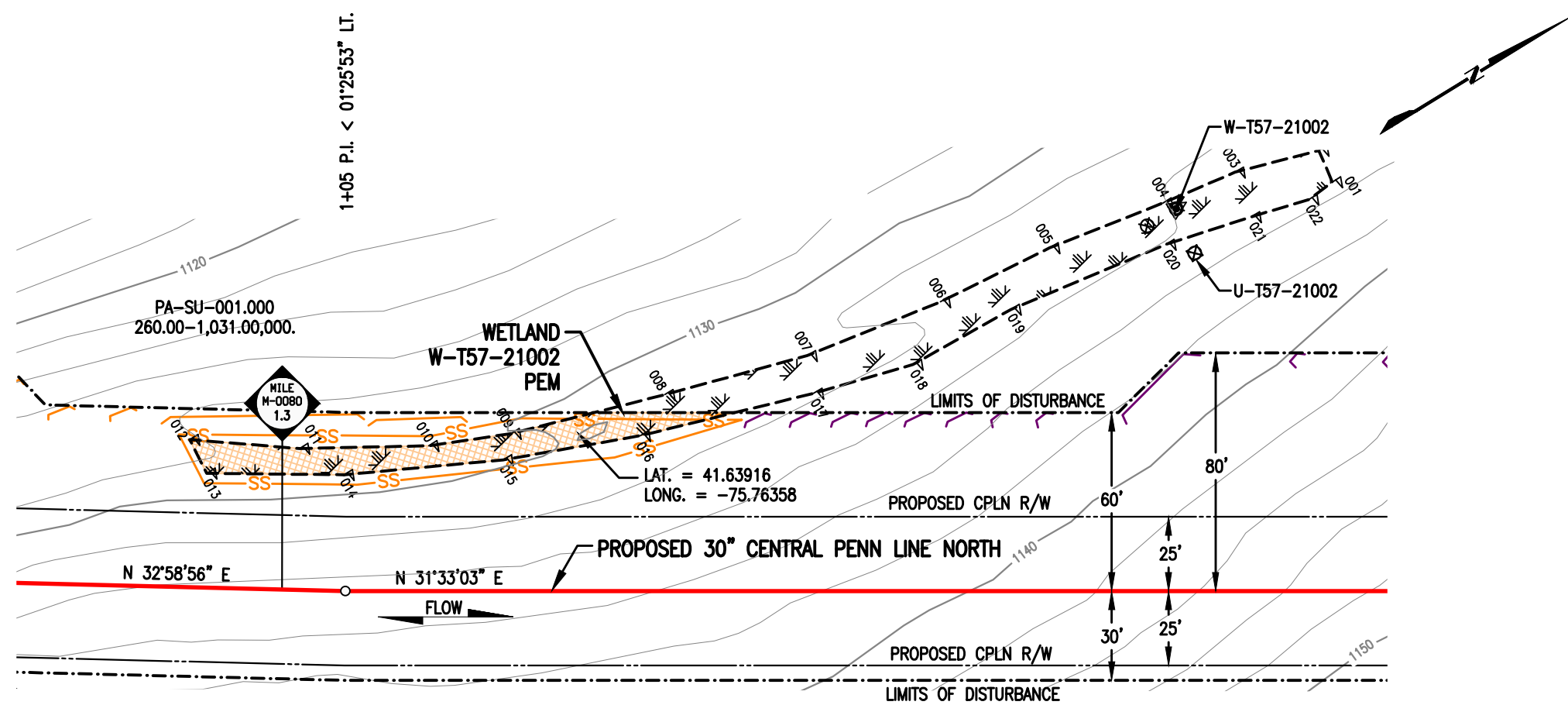
1. T.B.M. SURVEY CONTROL POINT - 10.86' RT. OF M-0080 M.P. 1.04, ELEV. = 1058.85' (NAVD88).



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T57-21002 M-0080 M.P. 1.27 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 06/20/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/13/16	EE	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: MRL	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-09-A/M-0080-1.27-01	SHEET 1
							WC: 1161481		10/19/2016	OF 1



PLAN
SCALE: 1" = 50'

WETLAND DISTURBANCE:

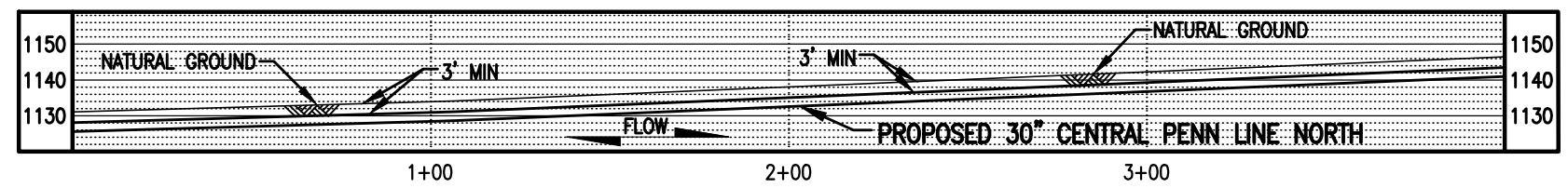
WETLAND W-T57-21002	ACRE
TEMPORARY DISTURBANCE	0.0332
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0332

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0080 STATION 68+80 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 464.76' LT. OF M-0080 M.P. 1.46, ELEV. = 1100.27' (NAVD88).



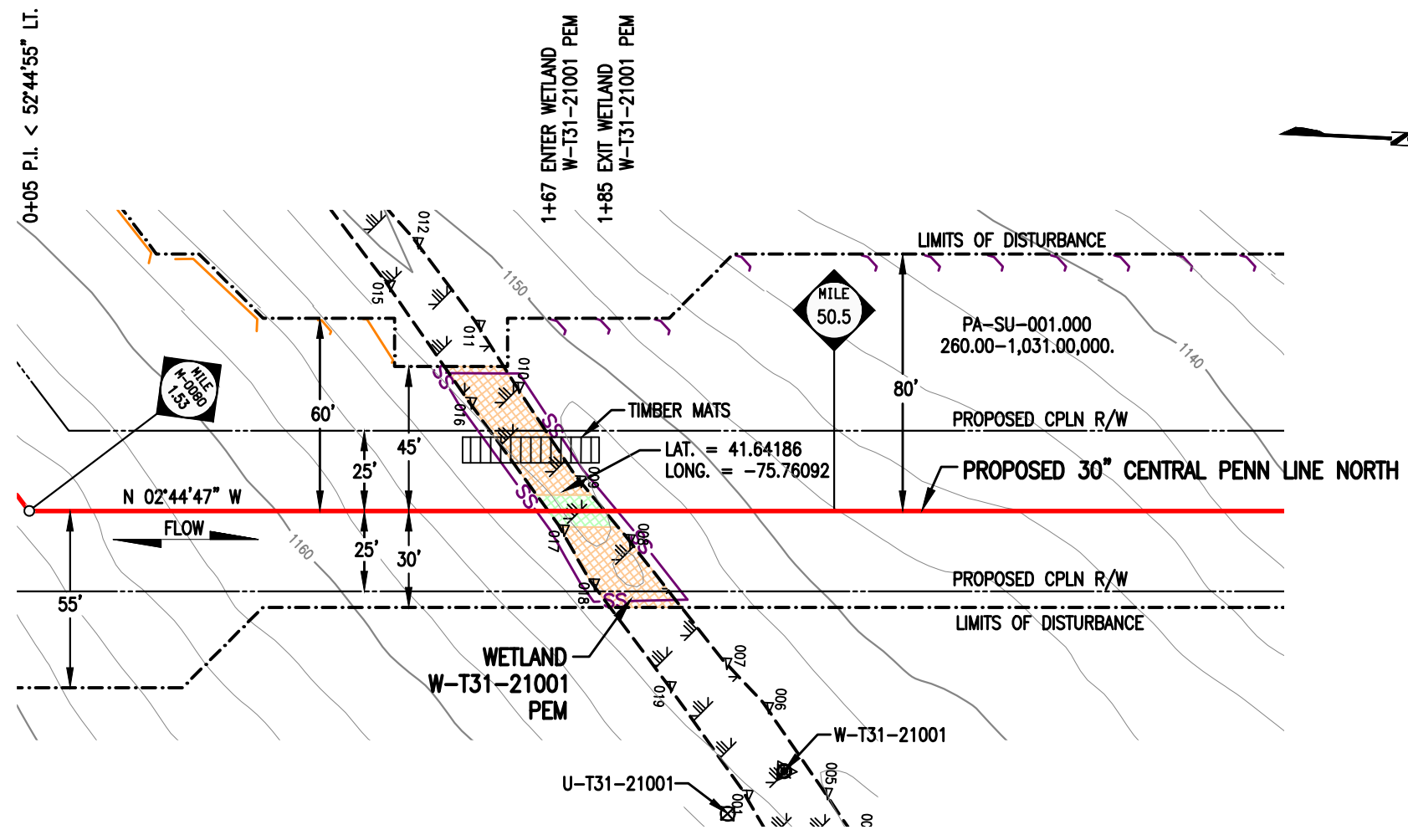
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT WETLAND IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY WETLAND IMPACT
	EXISTING POWER LINE		FLOODWAY BOUNDARY		
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T57-21002 © M-0080 M.P. 1.30 NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	10/13/16	AD	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: THL		DATE: 06/24/16	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: CLR		DATE: 07/05/16	ISSUED FOR CONSTRUCTION:	REVISION: 0	
APPROVED BY: MJH		DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-20-A/M-0080-1.30-01	SHEET 1 OF 1	
WC: 1161481		9/20/2016 s1ninh	K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_M-0080-1.30-01.dwg		



PLAN
SCALE: 1" = 50'

WETLAND DISTURBANCE:

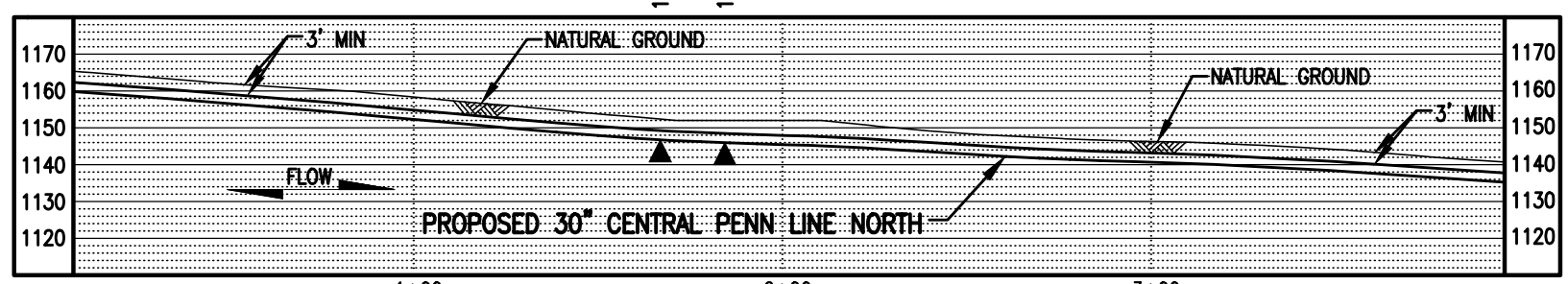
WETLAND W-T31-21001	ACRE
TEMPORARY DISTURBANCE	0.0279
PERMANENT DISTURBANCE	0.0040
TOTAL DISTURBANCE	0.0319

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 2664+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 582' LT. OF M.P. 50.48, ELEV. = 1100.27' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



THIS DRAWING SUPERCEDES 24-1601-70-20-A/50.48-01

LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - - LIMITS OF DISTURBANCE
- - - - - PROPOSED CPLN R/W
- P —— PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- P —— EXISTING POWER LINE
- X —— EXISTING FENCE

- WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- WELL POINT
- TRENCH PLUG
- WATERBODY
- TREE LINE
- FLOODWAY BOUNDARY
- FEMA FLOODWAY BOUNDARY

WOOD GROUP MUSTANG, INC.

- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT

DRAWING NO.		REFERENCE TITLE	

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T31-21001
● M-0080 M.P. 1.55
NICHOLSON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	08/11/15	AT	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	AO	03/06/15		1" = 50'
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	ML	04/13/15		
2	10/13/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	MJH	04/17/15		

CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	REVISION:
ML	04/13/15		2
APPROVED BY:	DATE:	DRAWING NUMBER:	SHEET
MJH	04/17/15	24-1601-70-20-A/50.48-02	1
			OF