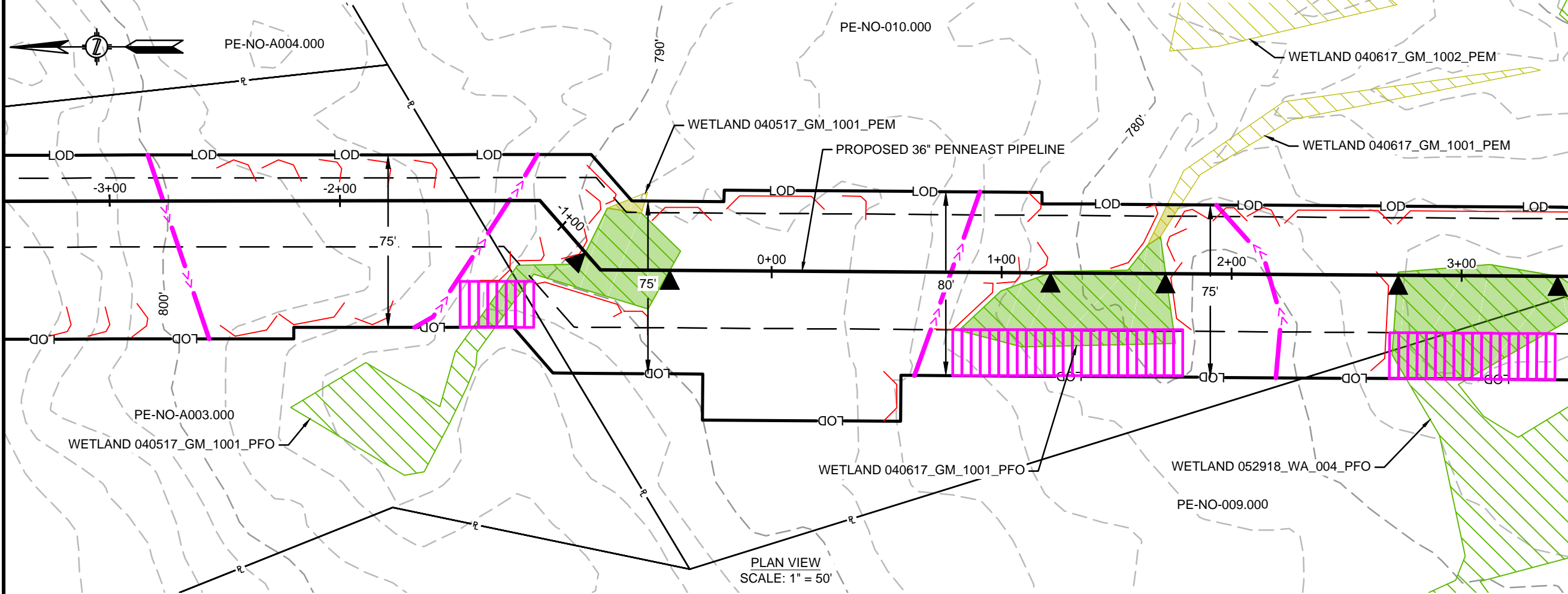
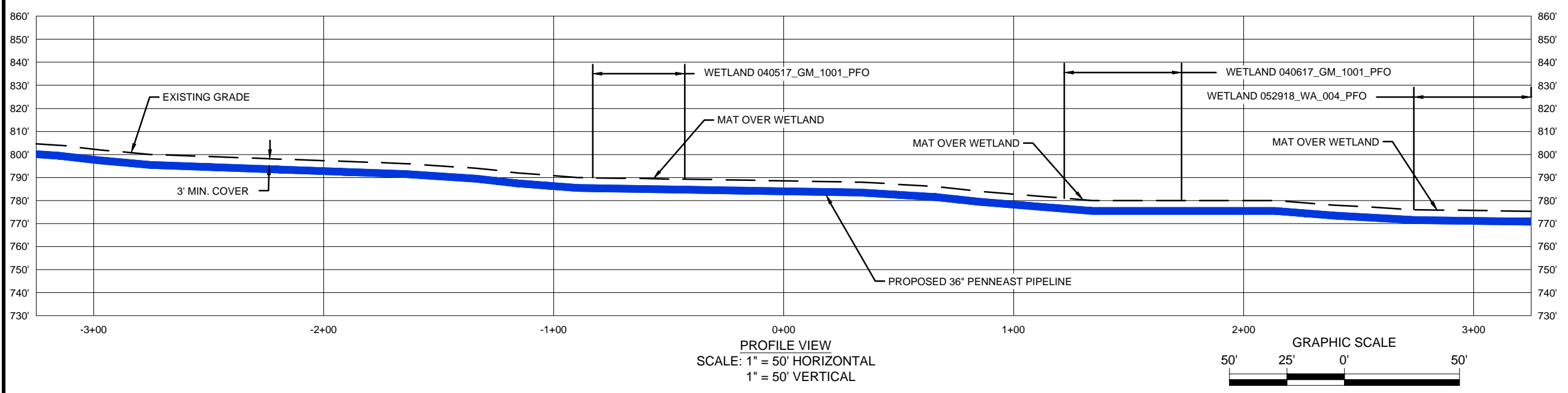


# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING	
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY		
040517_GM_1001_PFO	WETLAND	0.01	-	-	0.03	-	-	CL - OPEN CUT	-	-	-	MATTED
040517_GM_1001_PEM	WETLAND	0.00	-	-	0.00	-	-	N/A - WORKSPACE	-	-	-	MATTED
040617_GM_1001_PFO	WETLAND	0.01	-	-	0.05	-	-	CL - OPEN CUT	-	-	-	MATTED
040617_GM_1001_PEM	WETLAND	0.00	-	-	0.00	-	-	N/A - WORKSPACE	-	-	-	MATTED
052918_WA_004_PFO	WETLAND	0.02	-	-	0.05	-	-	CL - OPEN CUT	-	-	-	MATTED

11/15/2018 5:38 PM, MORALES, HECTOR  
G:\PENNEAST\353754\_PENNEAST\_PIPELINE\_EPC\MDATA\PROD\STATE\_PERMIT\WORK\PAIDRAFTING\EROSION\_SEDIMENT\_CONTROL\_PLAN\WATERBODY\_CROSSINGS\NORTHAMPTON\_COUNTY\WORK\001.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

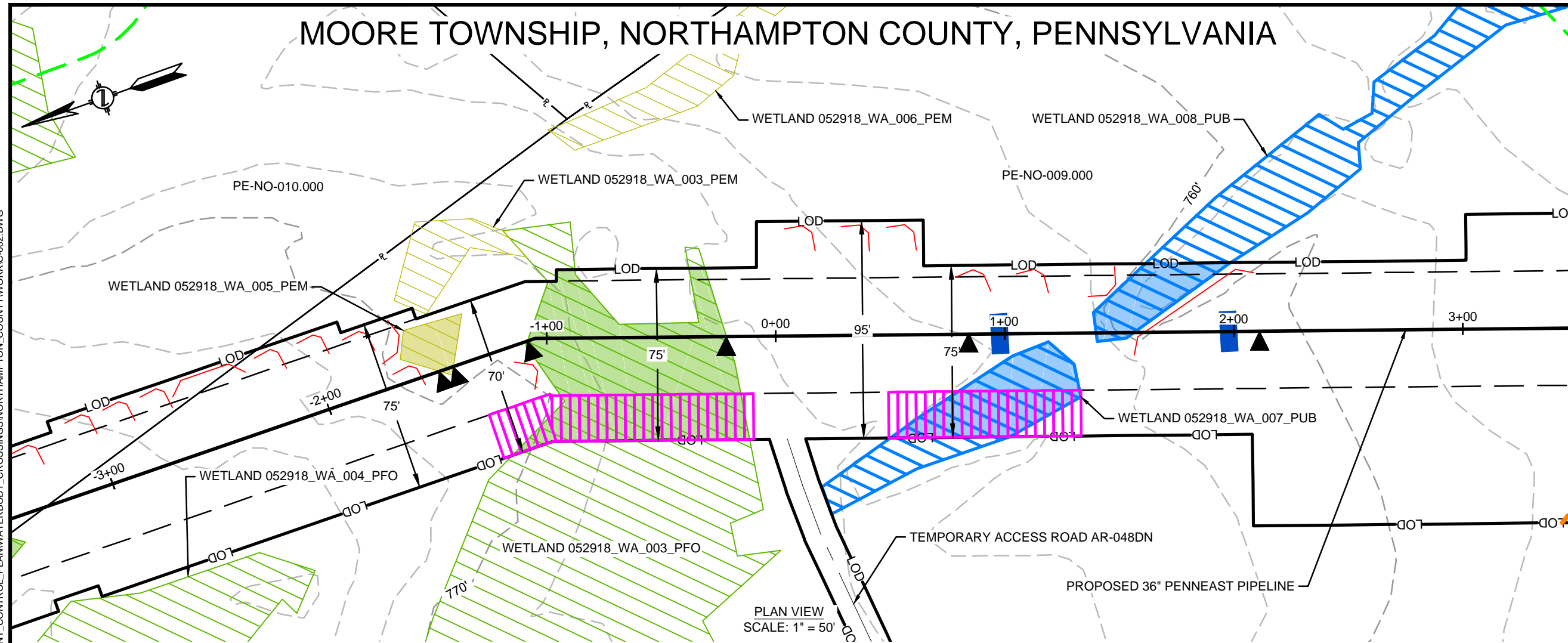
PREPARED BY:

**PENNEAST PIPELINE PROJECT**

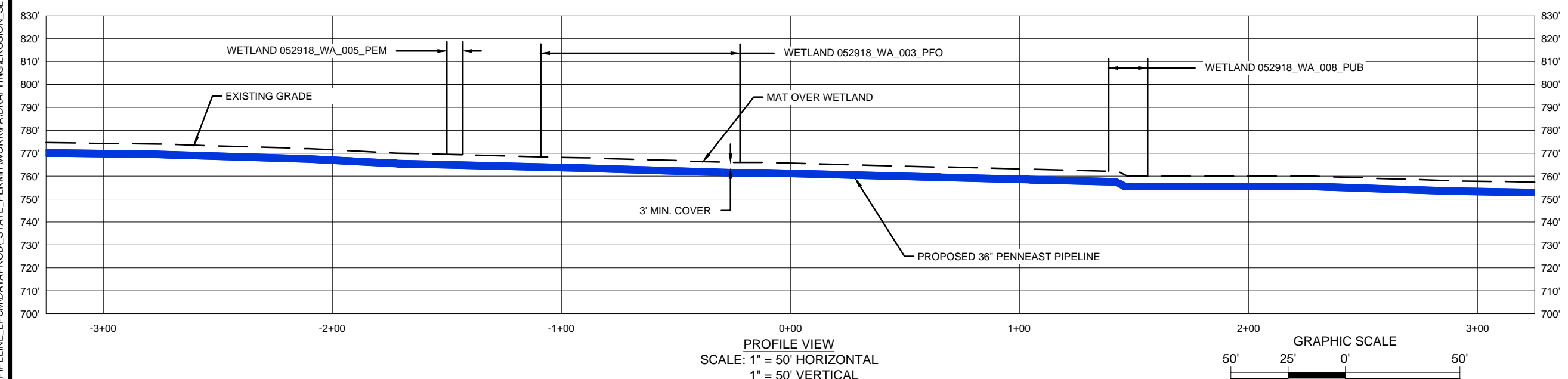
WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 52.4R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-001	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
052918_WA_003_PFO	WETLAND	0.04	.	.	0.08	CL - OPEN CUT	.	.	MATTED
052918_WA_005_PEM	WETLAND	.	.	.	0.01	CL - OPEN CUT	.	.	MATTED
052918_WA_007_PUB	WETLAND	0.03	.	.	0.02	N/A - WORKSPACE	.	.	MATTED
052918_WA_008_PUB	WETLAND	0.00	.	.	0.02	CL - OPEN CUT	.	.	MATTED

11/15/2018 5:40 PM, MORALES, HECTOR  
G:\PENNEAST\353754\_PENNEAST\_PIPELINE\_EPC\MDATA\PROD\STATE\_PERMIT\WORK\PA\DRAWING\EROSION\_SEDIMENT\_CONTROL\_PLAN\WATERBODY\_CROSSINGS\NORTHAMPTON\_COUNTY\WORK\002.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

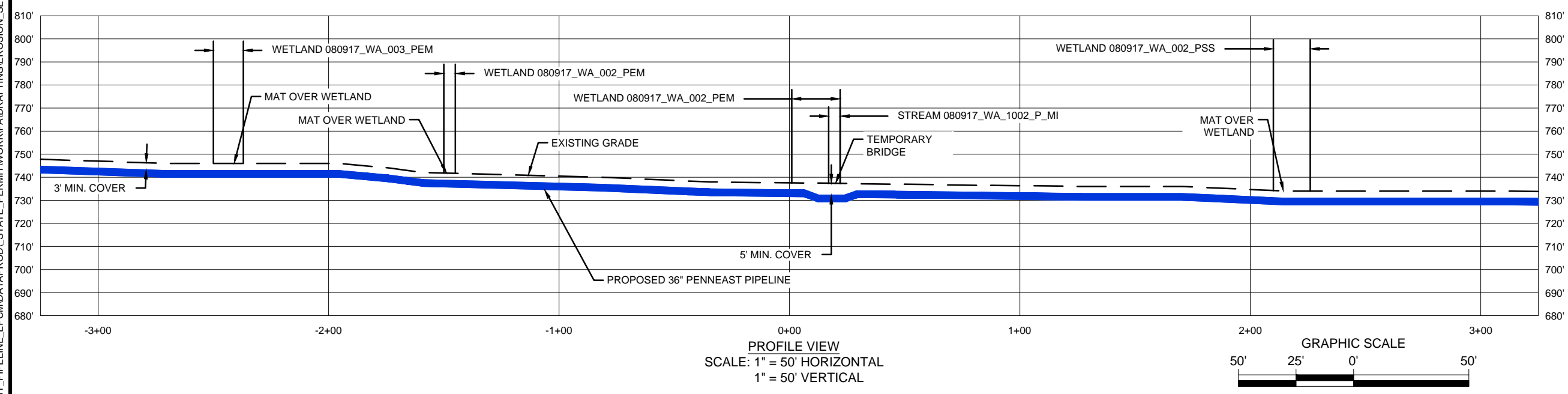
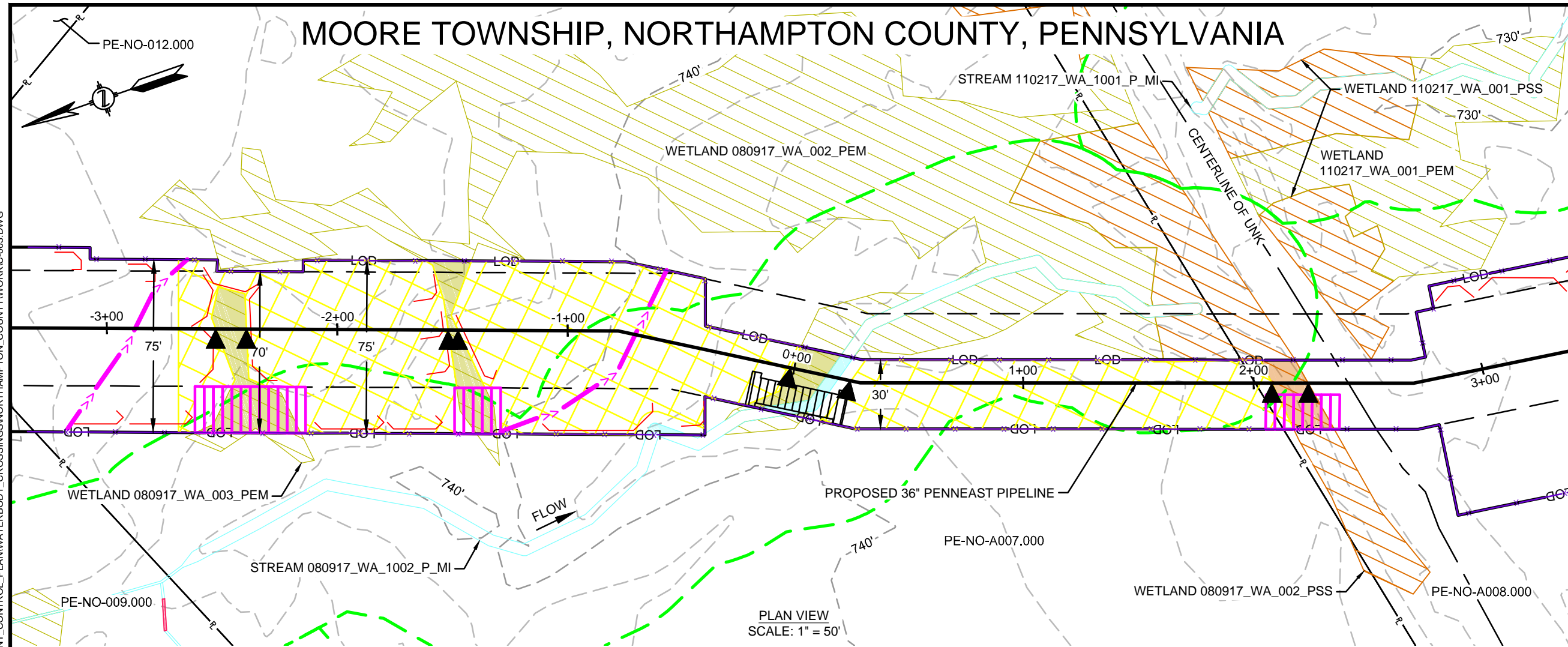
PREPARED FOR:

PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
**WETLAND & STREAM CROSSING PLAN**  
**PROPOSED 36" PENNEAST PIPELINE**  
 MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 52.5R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-002	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
080917_WA_003_PEM	WETLAND	0.01	-	0.01	-	CL-OPEN CUT	-	-	MATTED
080917_WA_002_PSS	WETLAND	-	-	0.04	-	CL-OPEN CUT	-	-	MATTED
080917_WA_002_PEM-1	WETLAND	0.01	-	0.01	-	N/A - WORKSPACE	-	-	MATTED
080917_WA_002_PEM-2	WETLAND	-	-	0.04	-	CL-OPEN CUT	-	-	MATTED
080917_WA_1002_P_MI-1	WATERBODY	-	0.00	-	0.33	N/A	-	-	MAT BRIDGE OR EQUIVALENT
080917_WA_1002_P_MI-2	WATERBODY	-	-	-	-	DPX	-	-	MAT BRIDGE OR EQUIVALENT

11/15/2018 8:26 PM, MORALES, HECTOR  
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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



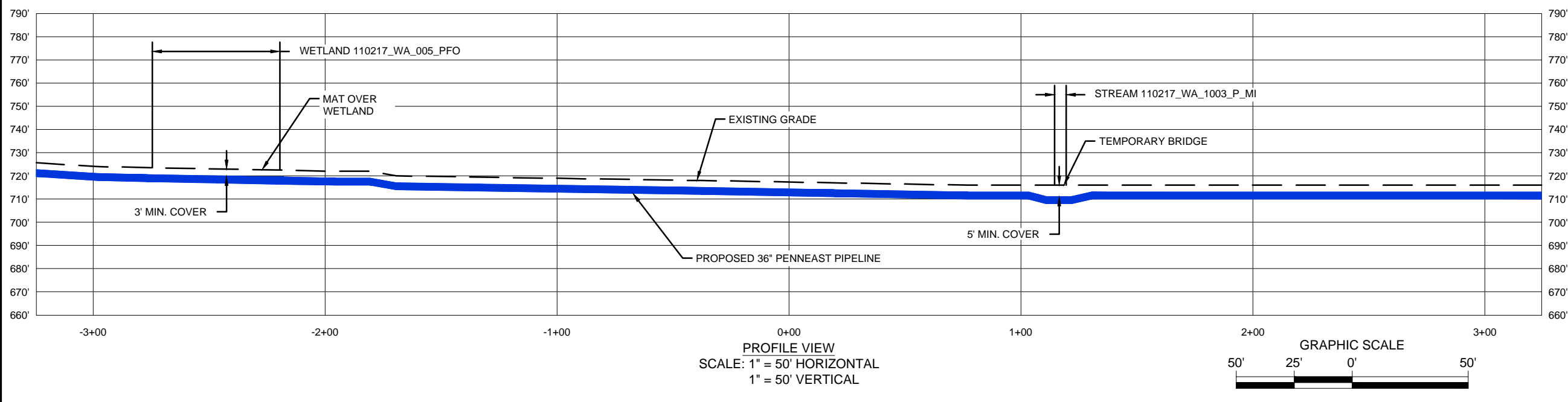
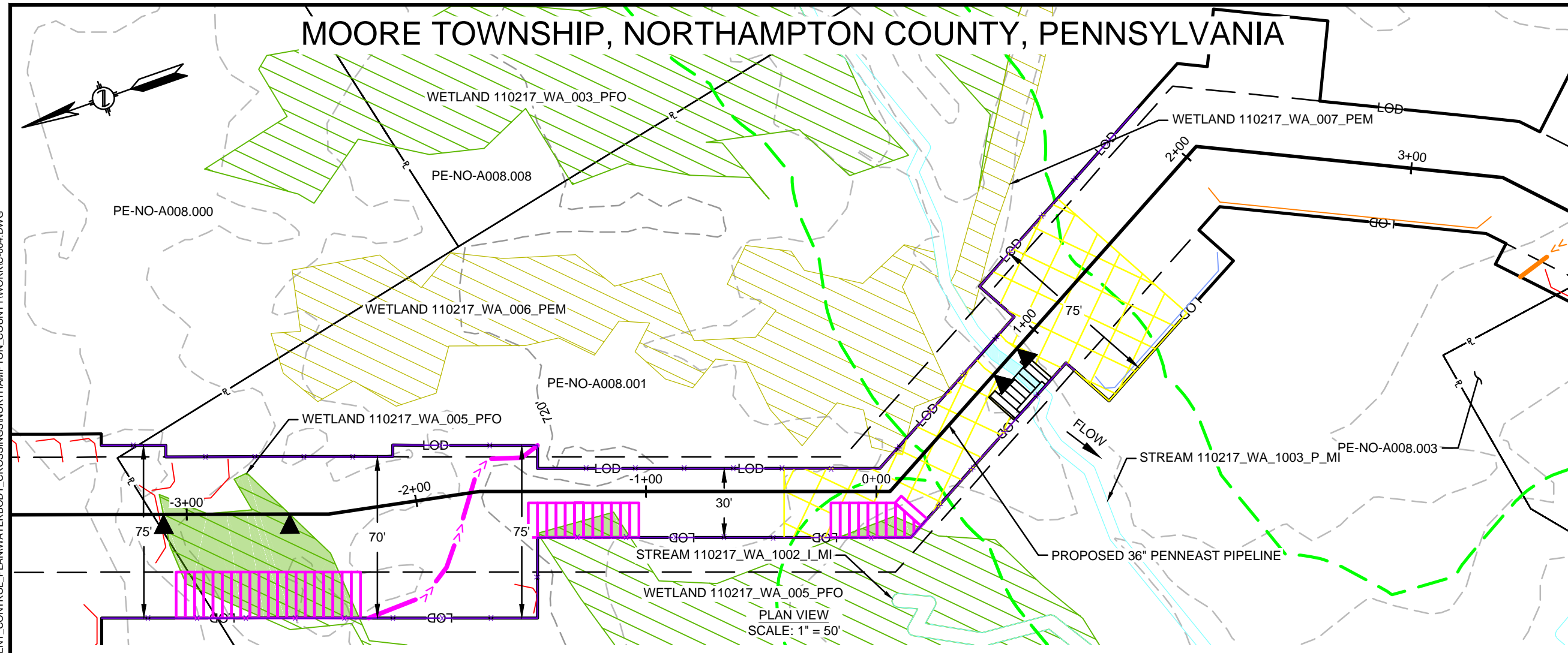
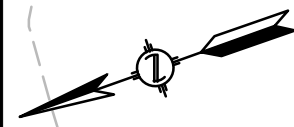
PREPARED BY:

**PENNEAST PIPELINE PROJECT**

WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 52.7R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-003	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
110217_WA_005_PFO - 1	WETLAND	0.03	-	0.04	-	CL - OPEN CUT	-	-	MATTED
110217_WA_005_PFO - 2	WETLAND	-	-	0.02	-	CL - OPEN CUT	-	-	MATTED
110217_WA_005_PFO - 3	WETLAND	-	-	0.02	-	N/A - WORKSPACE	-	-	MATTED
110217_WA_006_PEM	WETLAND	-	-	0.01	-	N/A - WORKSPACE	-	-	MATTED
110217_WA_1002_I_MI	WATERBODY	-	-	-	0.05	N/A	N/A	N/A	N/A - WORKSPACE
110217_WA_1003_P_MI	WATERBODY	-	-	-	0.12	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT

11/15/2018 8:33 PM, MORALES, HECTOR  
G:\PENNEAST\353754\_PENNEAST\_PIPELINE\_EPC\MDATA\PROD\STATE\_PERMIT\WORK\PA\DRAWING\EROSION\_SEDIMENT\_CONTROL\_PLAN\WATERBODY\_CROSSINGS\NORTHAMPTON\_COUNTY\WORK\004.DWG

REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

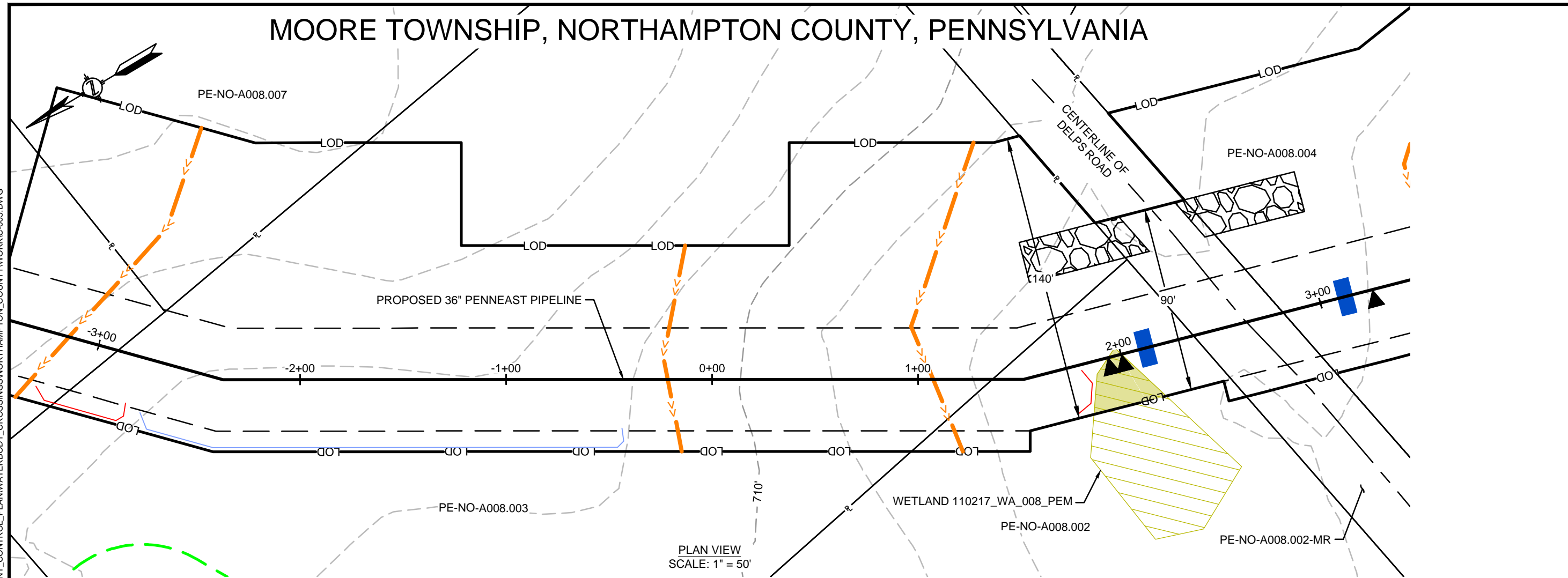
PREPARED BY:

**PENNEAST PIPELINE PROJECT**

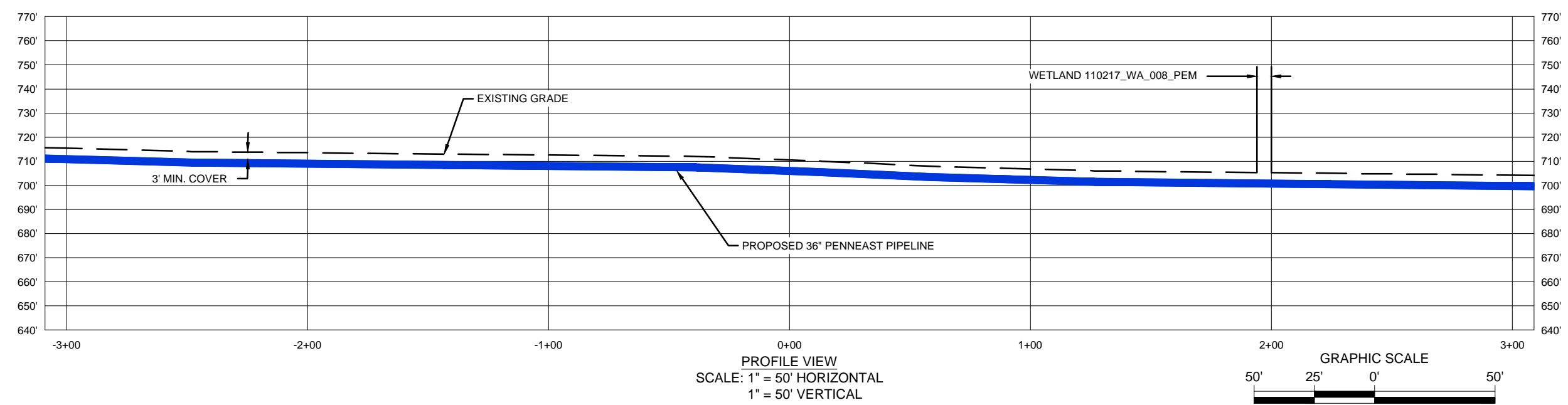
WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 52.9R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-004	0

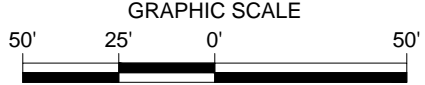
# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY				
	CL - BORE	CL - OPEN CUT	-	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	110217_WA_008_PEM
				0.01			

11/15/2018 5:47 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
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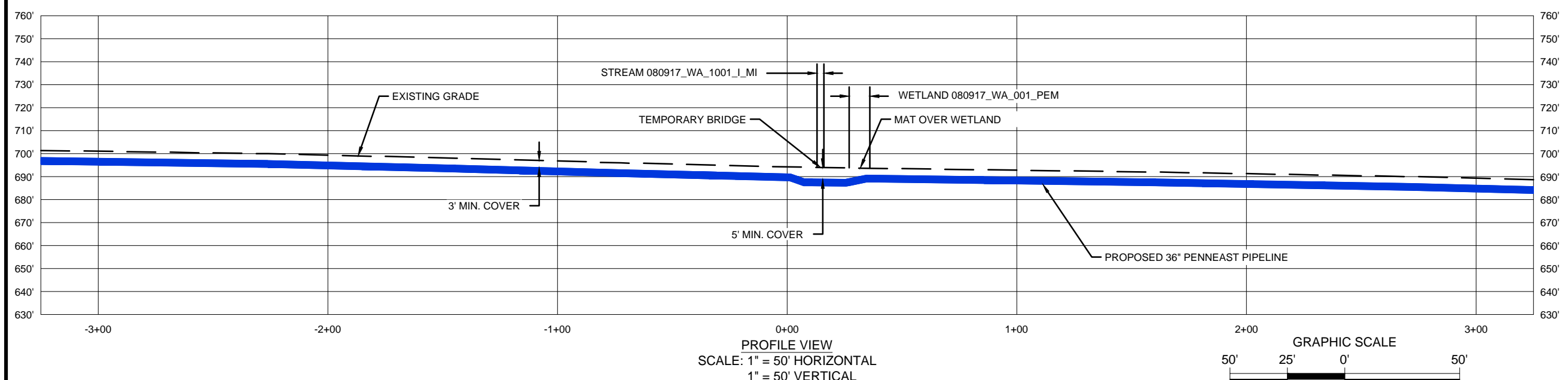
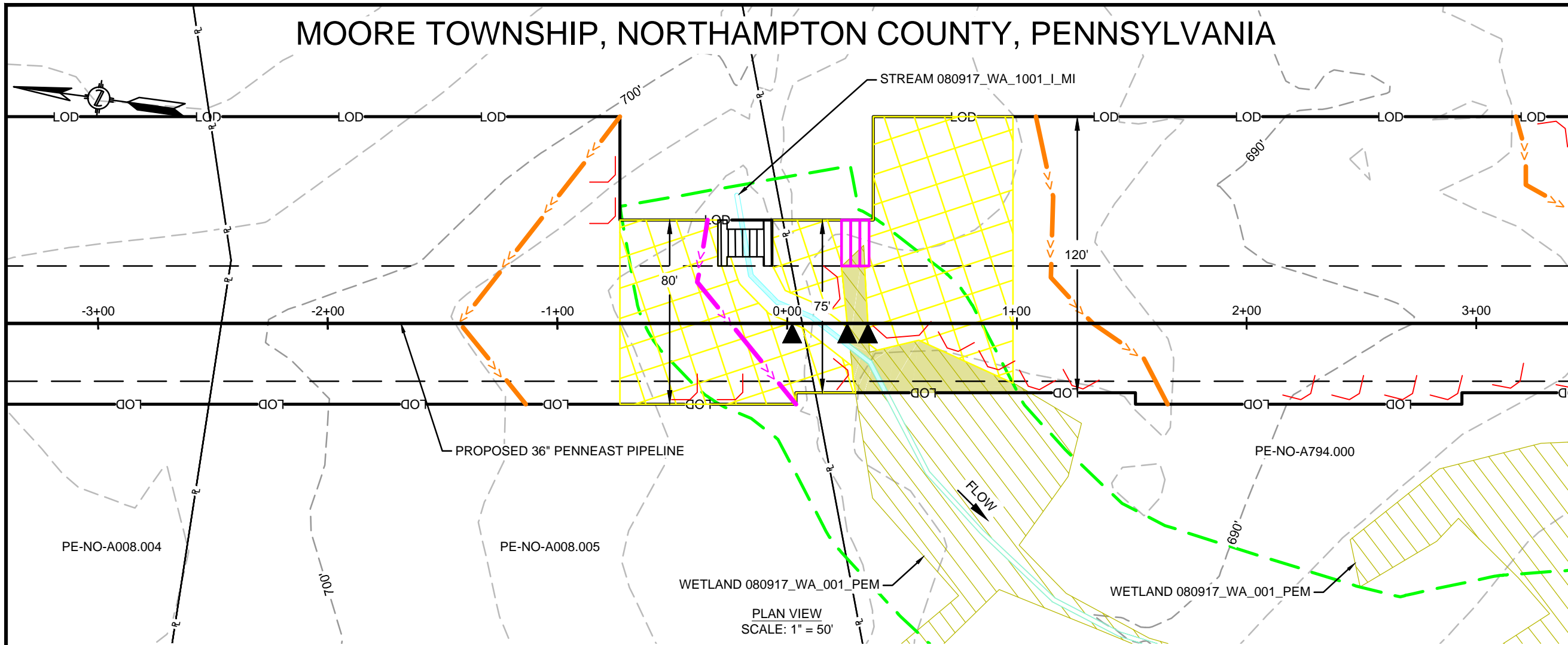
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 53.1R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-005	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)		TEMPORARY DISTURBANCE (ACRES)		RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	WETLAND		
MAT BRIDGE OR EQUIVALENT	CL - OPEN CUT	FX	DX-NF	0.00	0.02	0.00	0.08	WATERBODY	080917_WA_1001_I_MI
MATTED	-	-	-	-	0.01	-	-	WETLAND	080917_WA_001_PEM - 1

11/15/2018 8:31 PM, BARBOSA, ELIEZER  
G:\PENNEAST\353754\_PENNEAST\_PIPELINE\_EPC\MDATA\PROD\STATE\_PERMIT\WORK\PA\DRAWING\EROSION\_SEDIMENT\_CONTROL\_PLAN\WATERBODY\_CROSSINGS\NORTHAMPTON\_COUNTY\WORK-006.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

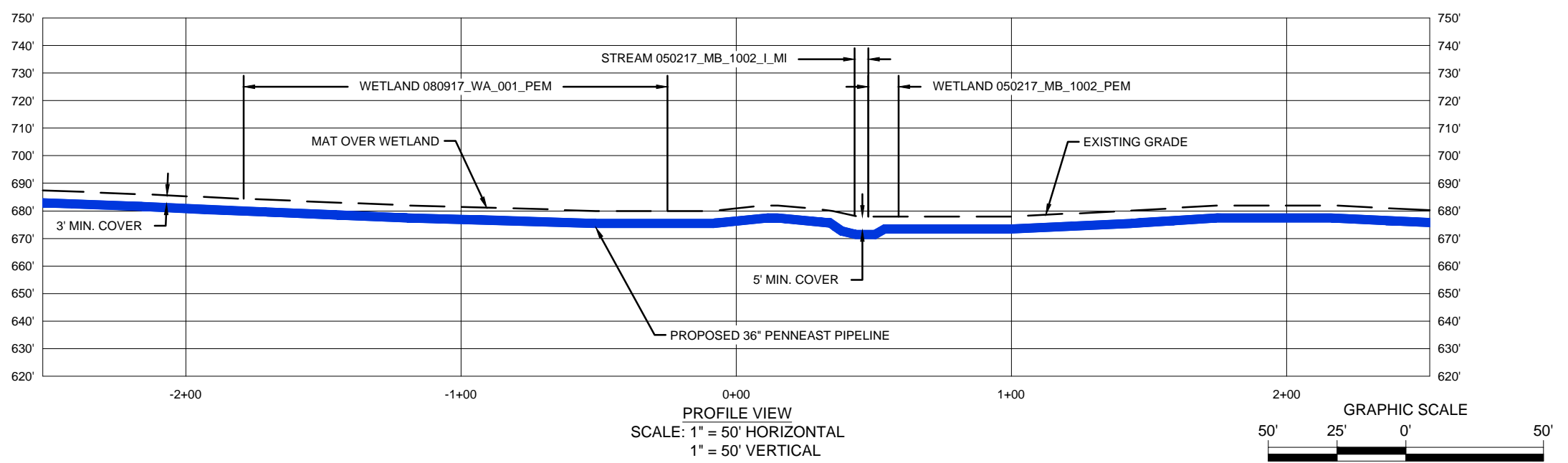
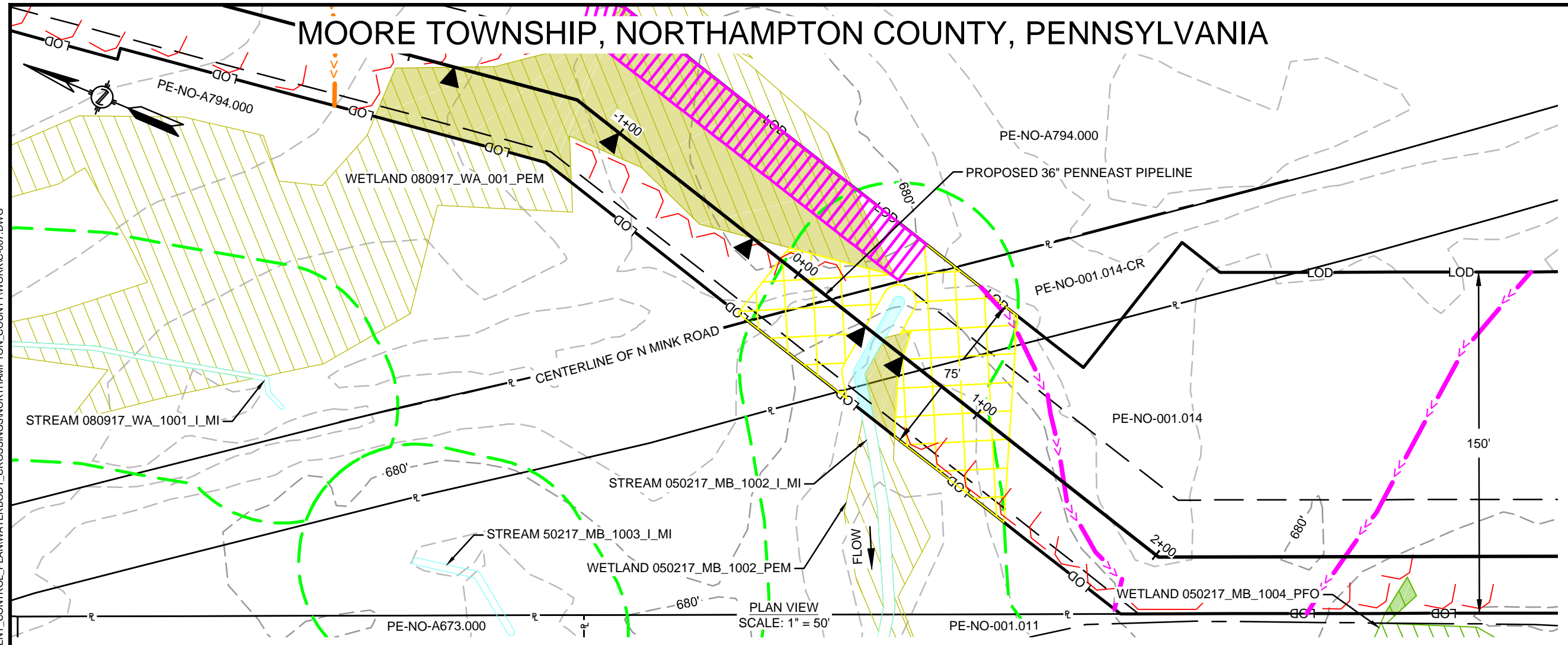
PREPARED BY:

**PENNEAST PIPELINE PROJECT**

WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 53.2R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-006	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
050217_MB_1002_PEM	WETLAND	0.00	-	0.01	-	CL - OPEN CUT	-	-	MATTED
080917_WA_001_PEM - 2	WETLAND	0.08	-	0.16	-	CL - OPEN CUT	-	-	MATTED
050217_MB_1002_I_MI	WATERBODY	-	0.00	-	0.13	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

11/15/2018 5:52 PM, MORALES, HECTOR  
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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

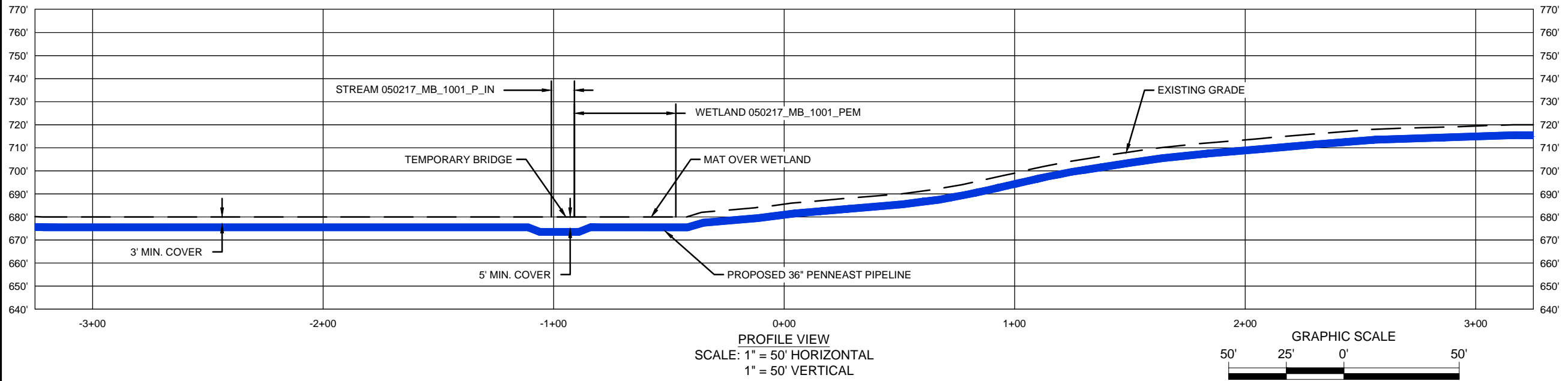
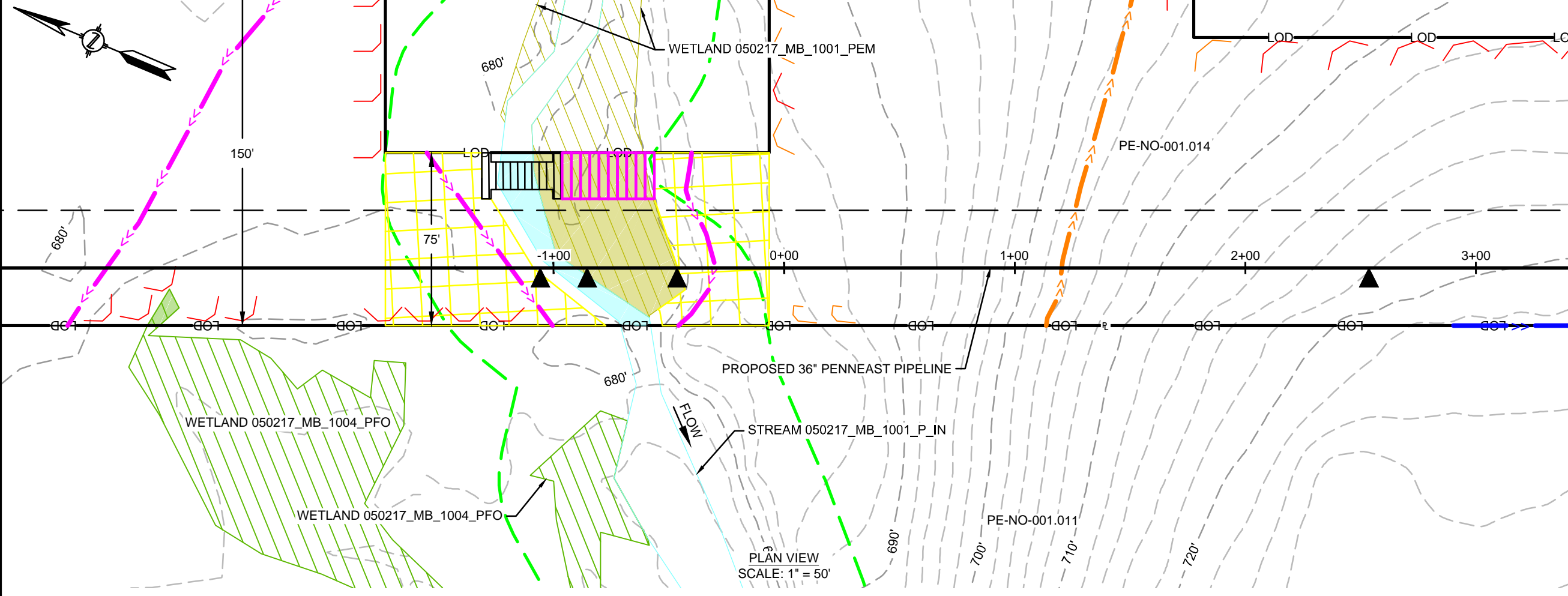
PREPARED FOR:

PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
**WETLAND & STREAM CROSSING PLAN**  
**PROPOSED 36" PENNEAST PIPELINE**  
 MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 53.3R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-007	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
050217_MB_1001_PEM	WETLAND	0.03	-	0.04	-	CL - OPEN CUT	-	-	MATTED
050217_MB_1004_PFO	WETLAND	-	-	0.00	-	N/A - WORKSPACE	-	-	MATTED
050217_MB_1001_P_IN	WATERBODY	-	0.01	-	0.15	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 5:54 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

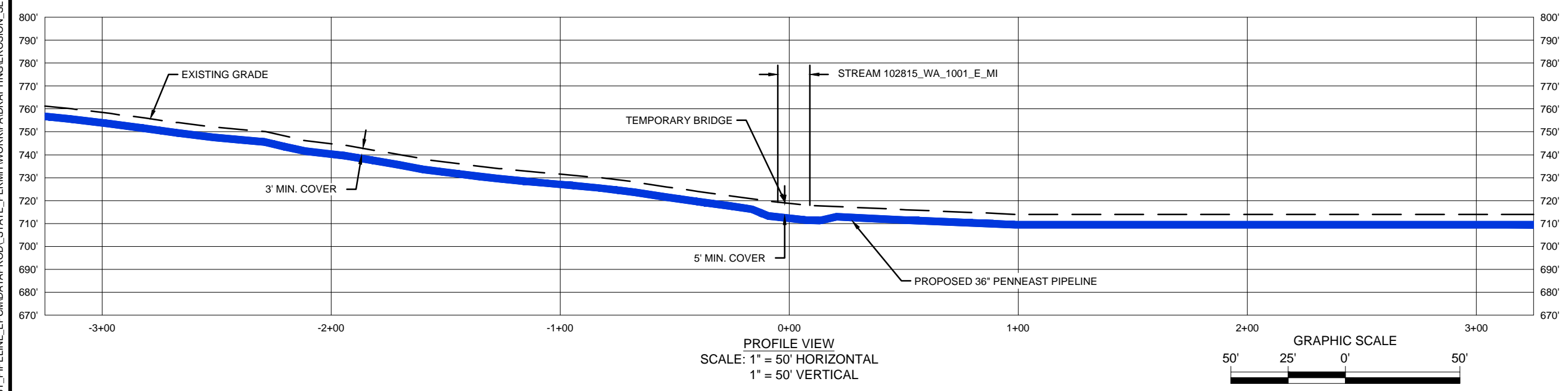
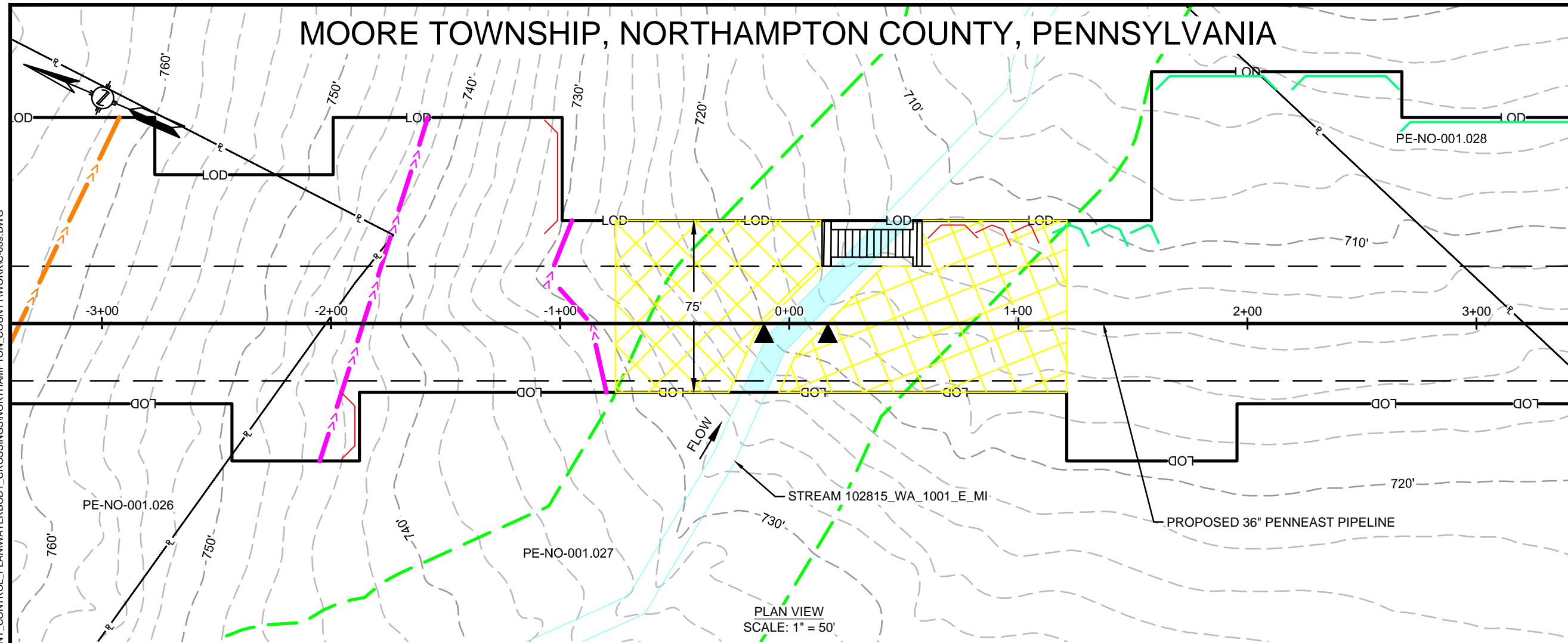
PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 53.4R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-008	0



# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD		PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID			
	PRIMARY	SECONDARY					TERTIARY		
	DPX	FX	DX-NF	0.15	0.01	0.08	0.01	WATERBODY	102815_WA_1001_E_MI
			WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE CHANNEL		

11/15/2018 5:57 PM, MORALES, HECTOR  
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REVISIONS			APPROVALS		
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

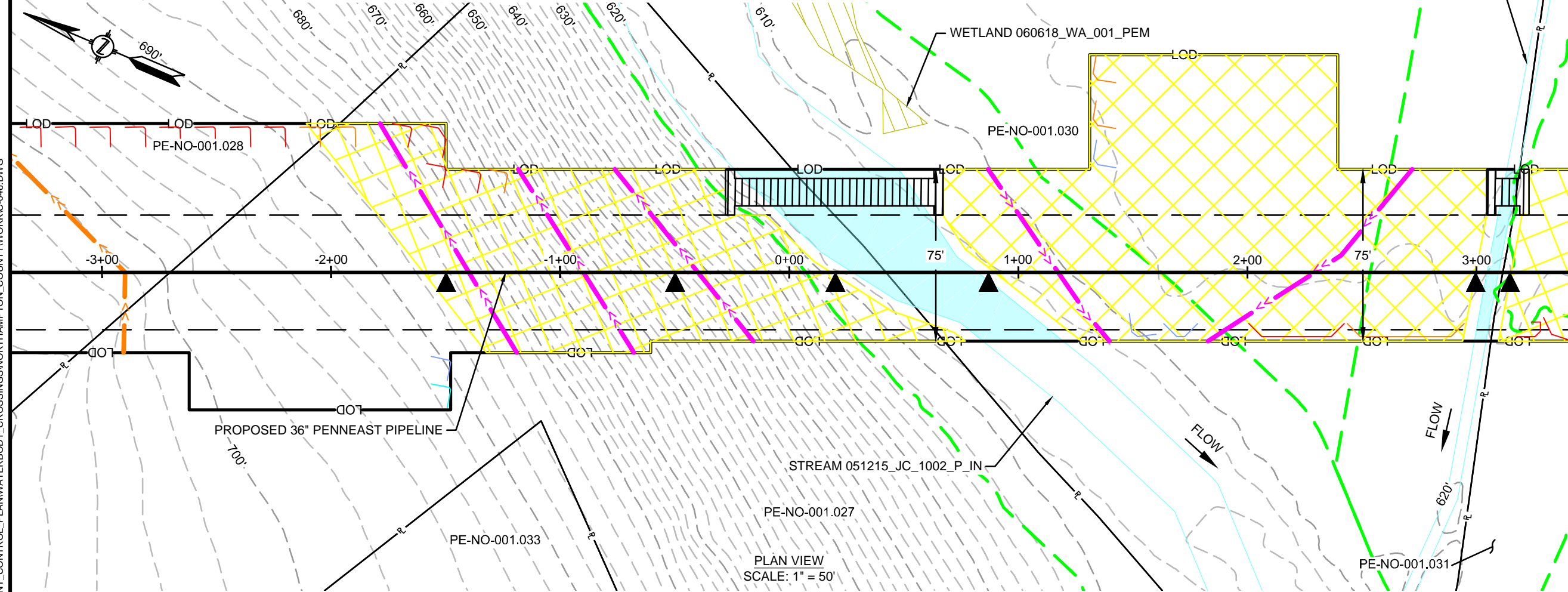
PREPARED FOR:

PREPARED BY:

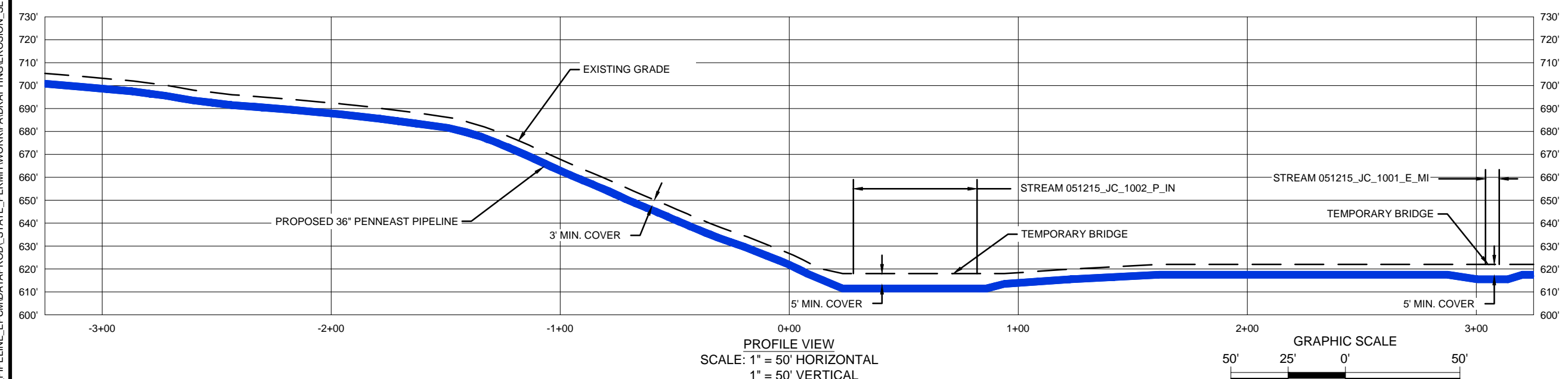
PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 55.7		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-009	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA

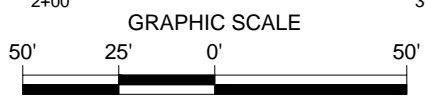
STREAM 051215\_JC\_1001\_E\_MI



PLAN VIEW  
SCALE: 1" = 50'



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



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
051215_JC_1001_E_MI	WATERBODY	-	0.00	0.04	-	0.01	0.07	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
051215_JC_1002_P_IN	WATERBODY	-	0.04	0.05	-	0.06	0.12	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 5:40 PM, MORALES, HECTOR  
G:\PENNEAST\353754\_PENNEAST\_PIPELINE\_EPC\DATA\PROD\STATE\_PERMIT\WORK\PA\DRAWING\EROSION\_SEDIMENT\_CONTROL\_PLAN\WATERBODY\_CROSSINGS\NORTHAMPTON\_COUNTY\WORKC-046.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

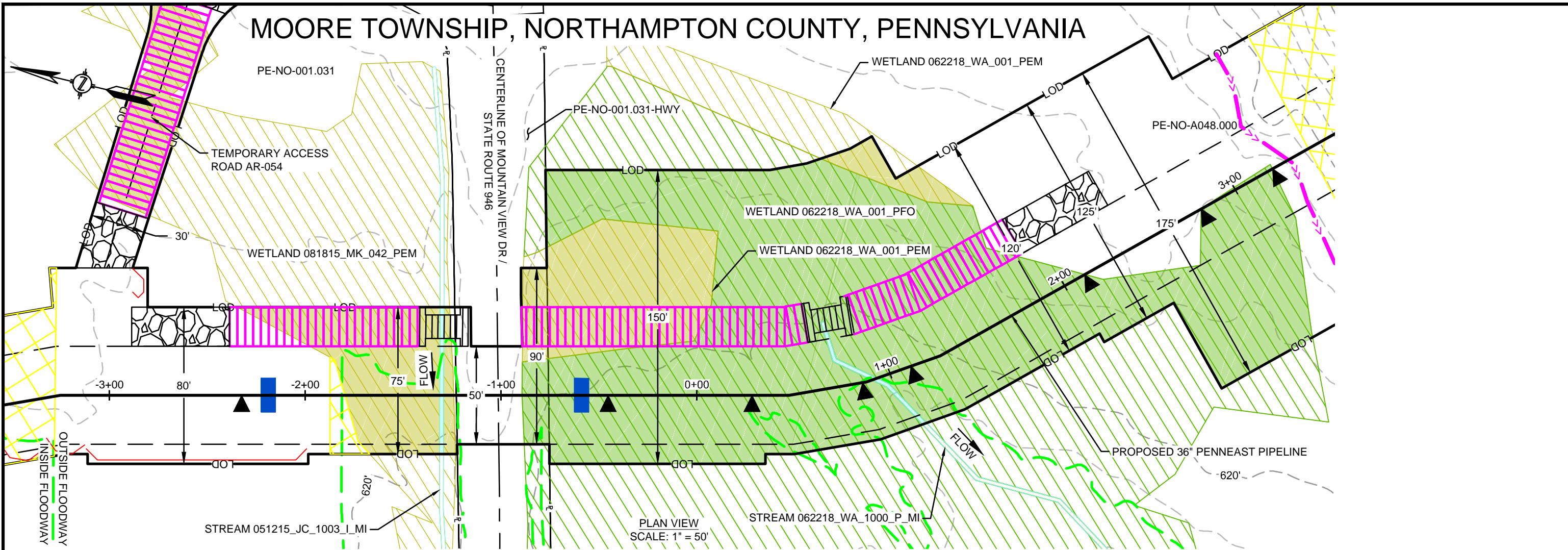
PREPARED FOR:

PREPARED BY:

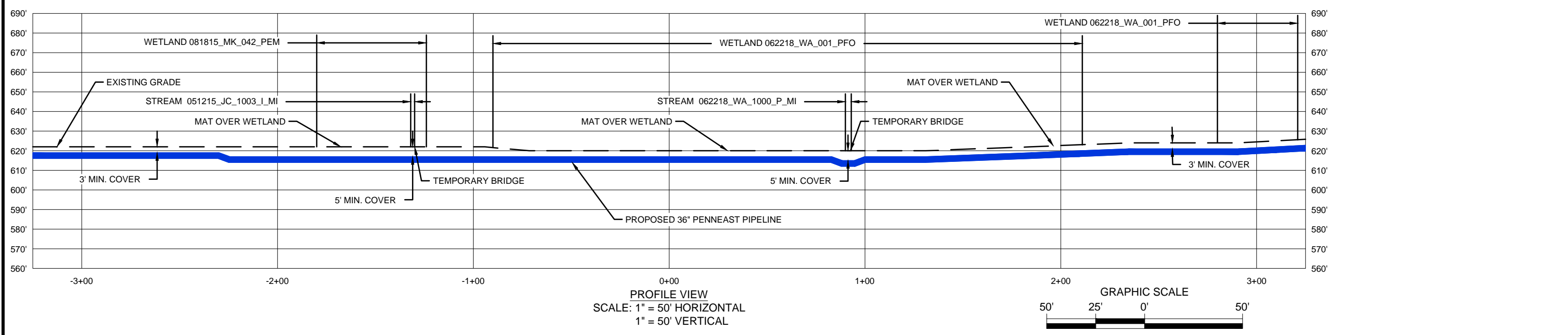
**PENNEAST PIPELINE PROJECT**  
**WETLAND & STREAM CROSSING PLAN**  
**PROPOSED 36" PENNEAST PIPELINE**  
 MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 55.9

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-010	0

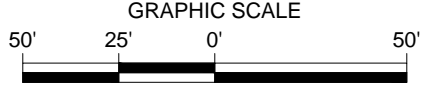
# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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



12/7/2018 2:51 PM, MORALES, HECTOR  
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REVISIONS			NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD			

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 56.0		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-011A	0

12/7/2018 2:51 PM, MORALES, HECTOR  
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FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
062218_WA_001_PFO	WETLAND	0.44	-	-	0.37	-	-	CL - OPEN CUT	-	-	MATTED
062218_WA_001_PEM - 1	WETLAND	0.13	-	-	0.01	-	-	N/A - WORKSPACE	-	-	MATTED
062218_WA_001_PEM - 2	WETLAND	0.02	-	-	-	-	-	N/A - WORKSPACE	-	-	MATTED
051215_JC_1003_I_MI	WATERBODY	-	0.00	0.01	-	0.00	0.05	BX	BX	BX	MAT BRIDGE OR EQUIVALENT
062218_WA_1000_P_MI	WATERBODY	-	0.00	0.01	-	0.00	0.03	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
081815_MK_042_PEM - 1	WETLAND	0.05	-	-	0.06	-	-	CL - BORE	CL - OPEN CUT	-	MATTED
081815_MK_042_PEM - 2	WETLAND	0.07	-	-	-	-	-	-	-	-	MATTED

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

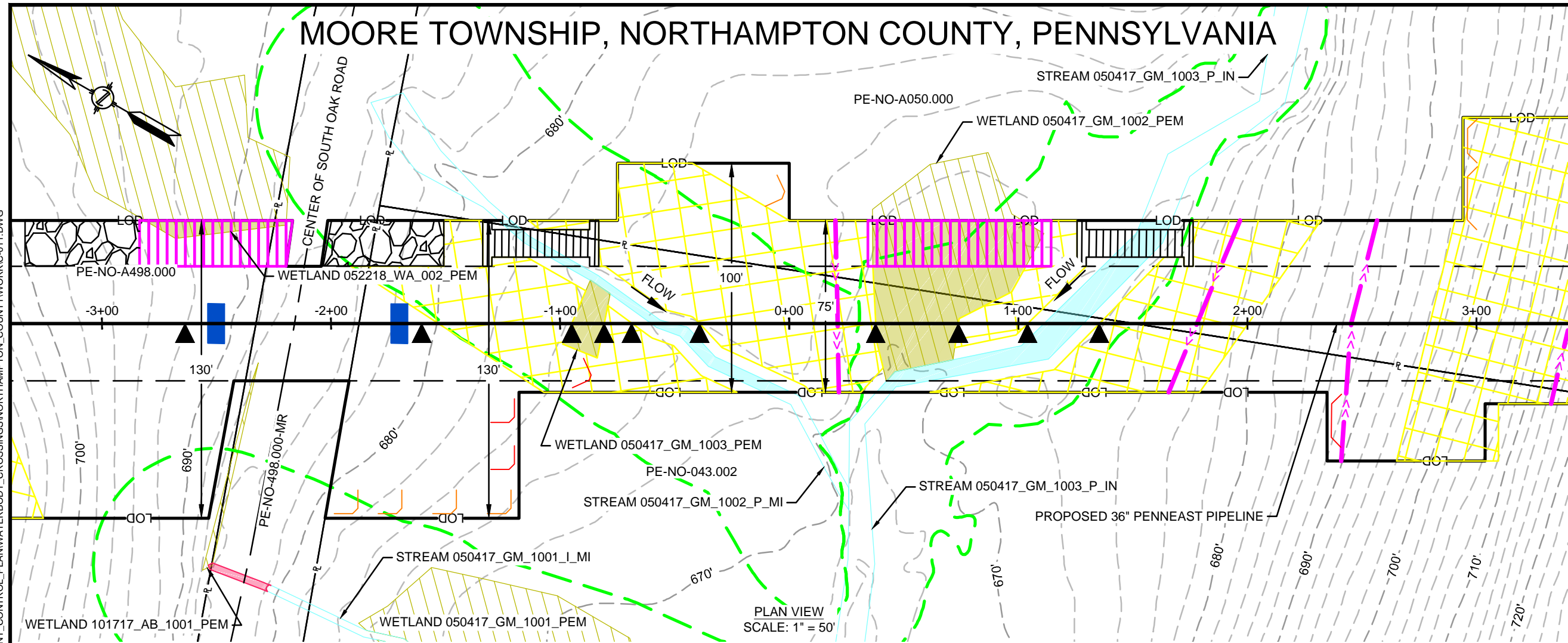
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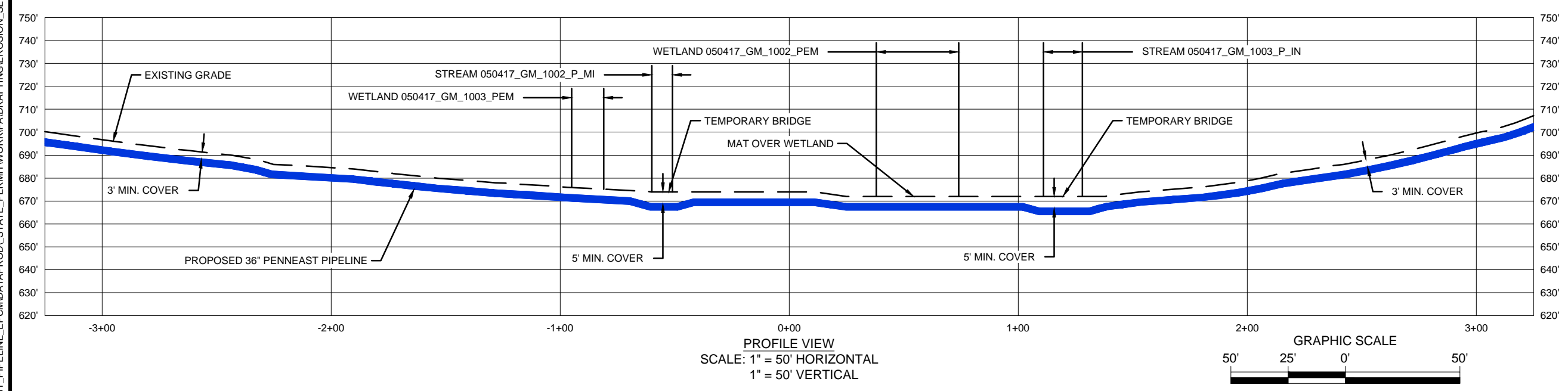
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 56.0		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-011B	0

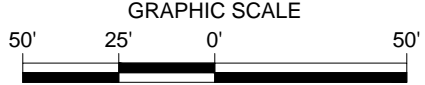
# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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



11/15/2018 5:39 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 56.7		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-012A	0

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FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
050417_GM_1001_I_MI	WATERBODY	-	-	0.03	-	-	-	N/A	N/A	N/A	N/A - WORKSPACE
050417_GM_1002_PEM	WETLAND	0.03	-	-	0.05	-	-	CL - OPEN CUT	-	-	MATTED
101717_AB_1001_PEM	WETLAND	-	-	-	0.00	-	-	N/A - WORKSPACE	-	-	MATTED
052218_WA_002_PEM	WETLAND	0.01	-	-	-	-	-	N/A - WORKSPACE	-	-	MATTED
050417_GM_1002_P_MI	WATERBODY	-	0.00	0.11	-	0.01	0.19	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
050417_GM_1003_P_IN	WATERBODY	-	0.01	0.05	-	0.02	0.11	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
050417_GM_1003_PEM	WETLAND	-	-	-	0.01	-	-	CL - OPEN CUT	-	-	MATTED

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

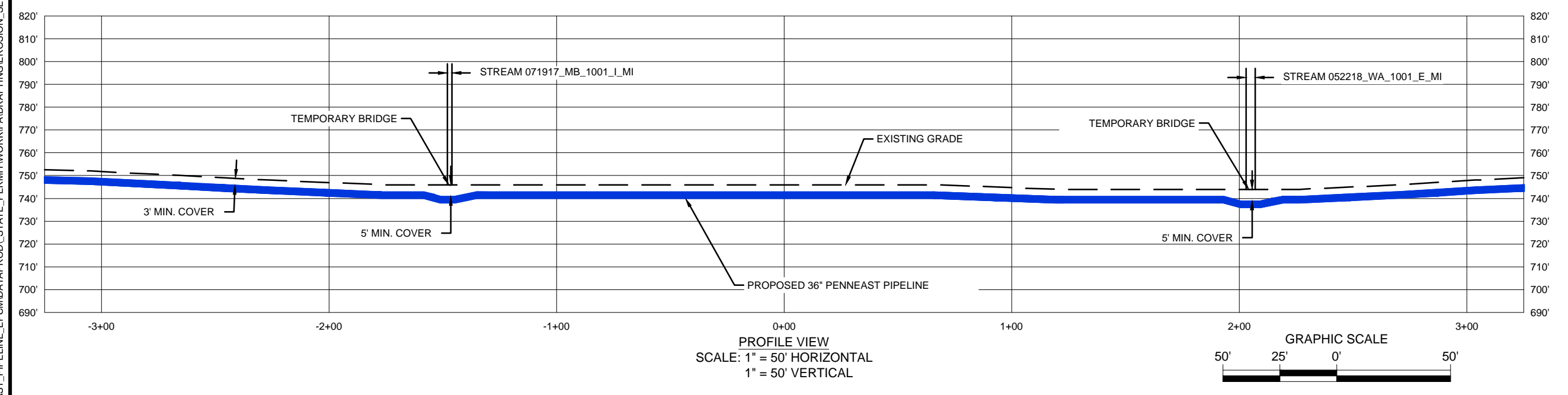
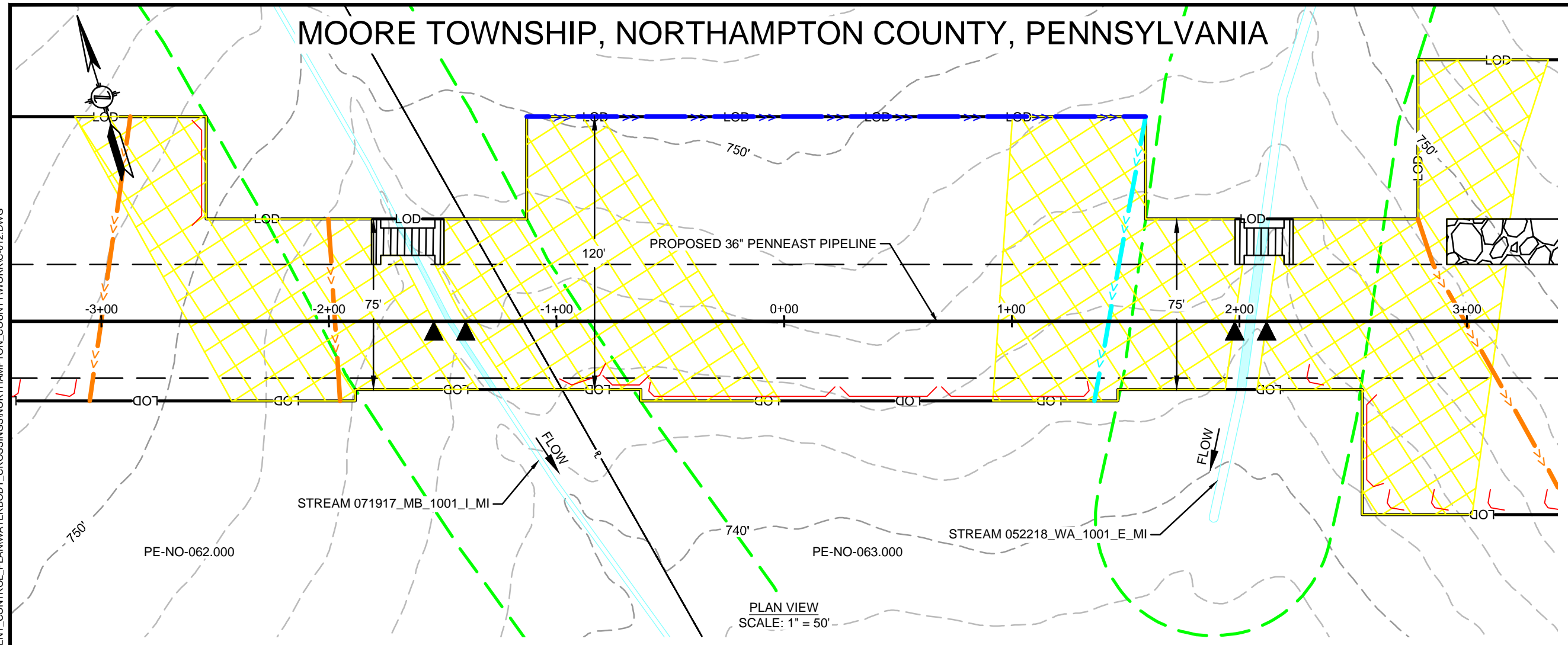
PREPARED FOR:



PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 56.7		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-012B	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
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071917_MB_1001_I_MI	WATERBODY	-	0.00	0.07	-	0.00	0.13	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
052218_WA_1001_E_MI	WATERBODY	-	0.00	0.06	-	0.00	0.12	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

11/15/2018 5:42 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



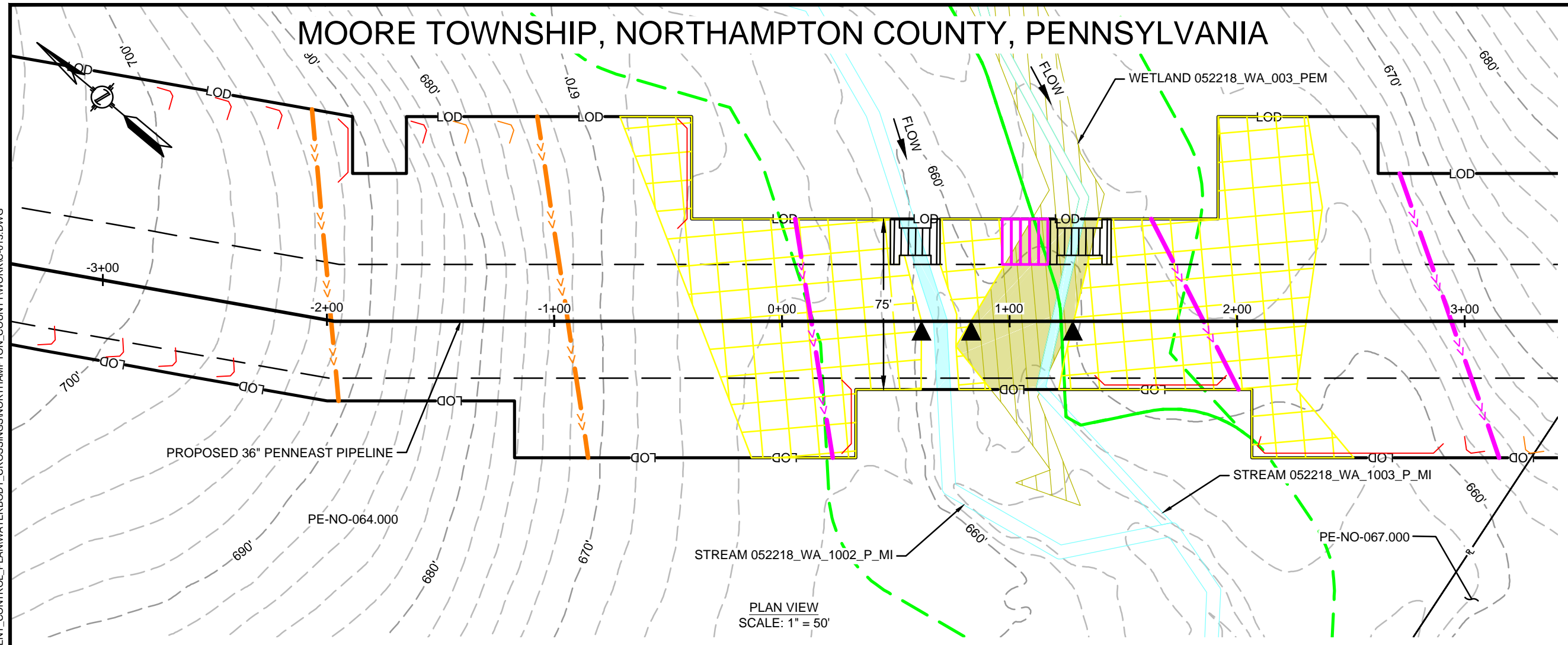
PREPARED BY:

**PENNEAST PIPELINE PROJECT**

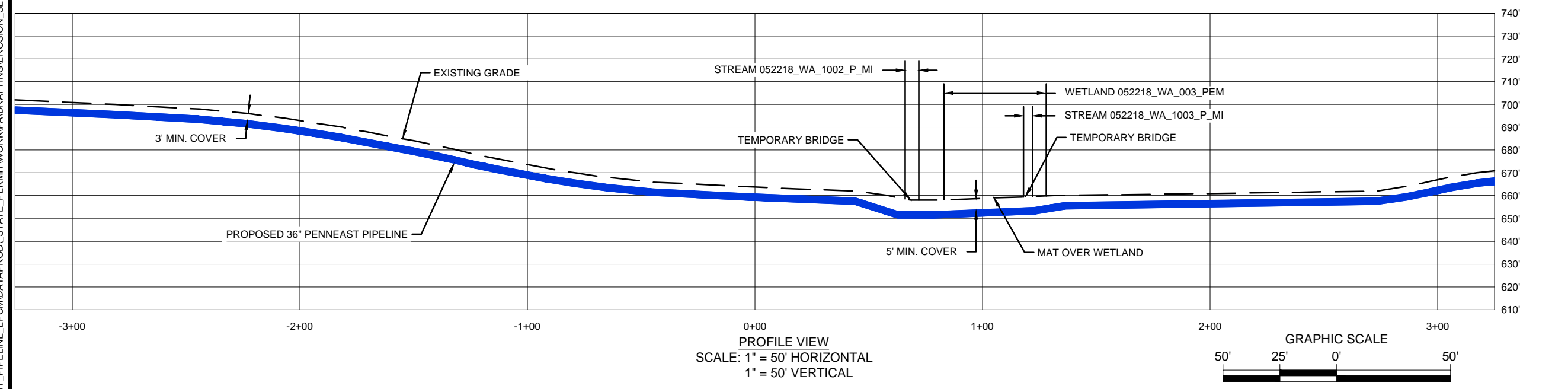
WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 58R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-013	0

# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE	CHANNEL	WETLAND	WATERCOURSE	CHANNEL	PRIMARY	SECONDARY	TERTIARY	
052218_WA_003_PEM	WETLAND	0.02	-	-	0.04	-	-	CL - OPEN CUT	-	-	MATTED
052218_WA_1002_P_MI	WATERBODY	-	0.00	0.07	-	0.11	0.01	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
052218_WA_1003_P_MI	WATERBODY	-	0.00	0.04	-	0.06	0.00	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 8:24 PM, BARBOSA, ELIEZER  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

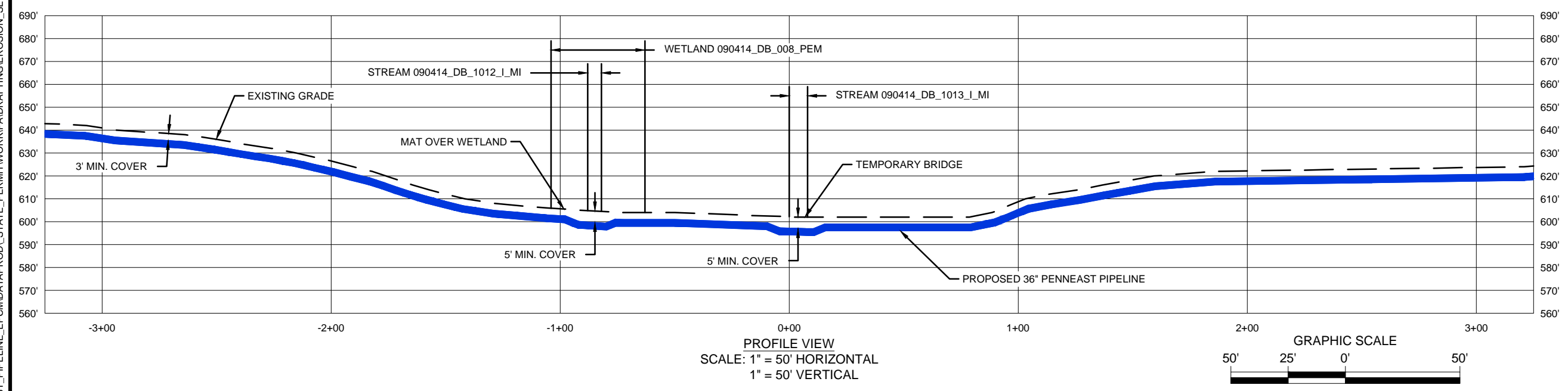
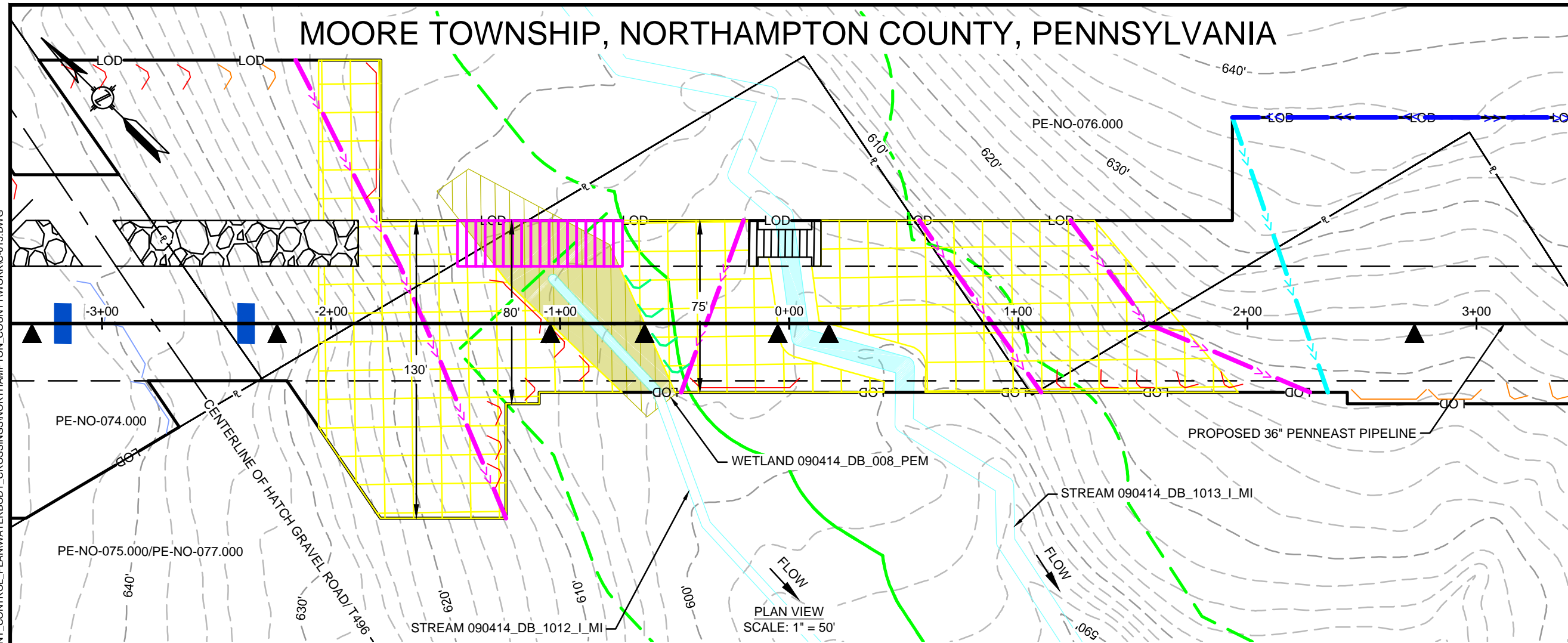
**PENNEAST PIPELINE PROJECT**  
**WETLAND & STREAM CROSSING PLAN**  
**PROPOSED 36" PENNEAST PIPELINE**  
 MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 58.5

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-014	0





# MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
090414_DB_008_PEM	WETLAND	0.03	-	0.04	-	CL - OPEN CUT	-	-	MATTED
090414_DB_1013_I_MI	WATERBODY	-	0.07	-	0.02	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
090414_DB_1012_I_MI	WATERBODY	-	0.02	-	0.01	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

11/15/2018 5:49 PM, MORALES, HECTOR  
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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
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APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

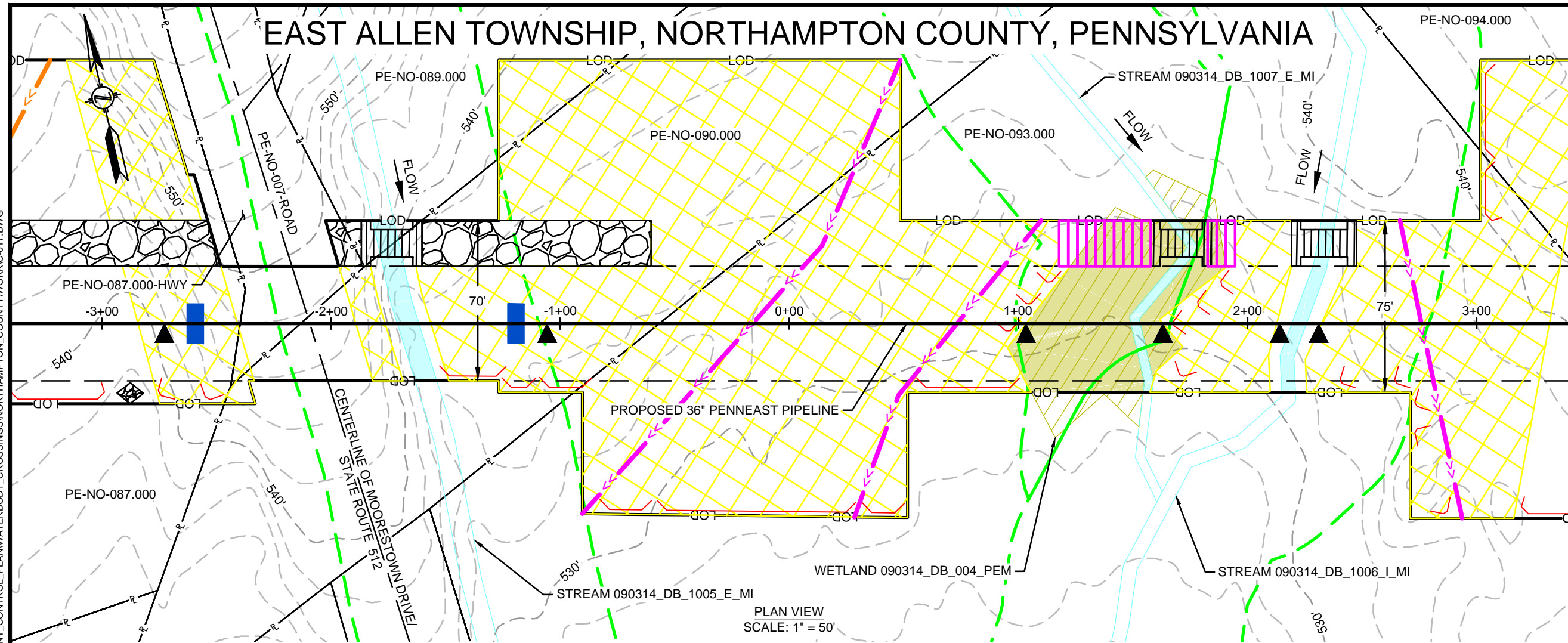
**PENNEAST PIPELINE PROJECT**  
**WETLAND & STREAM CROSSING PLAN**  
**PROPOSED 36" PENNEAST PIPELINE**  
 MOORE TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 59.2

SCALE	DRAWING NO.	REVISION
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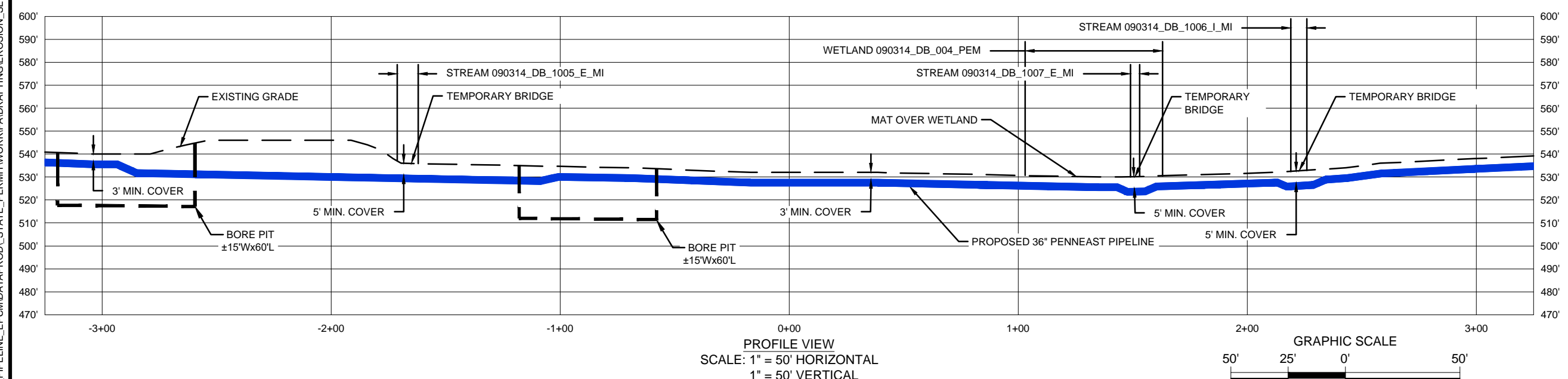


11/15/2018 11:40 PM, RODRIGUEZ, ROBERTO J  
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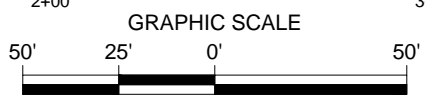
# EAST ALLEN TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
 SCALE: 1" = 50'



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



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	
090314_DB_004_PEM	WETLAND	0.03	-	-	0.07	-	CL - OPEN CUT	-	MATTED
090314_DB_1005_E_MI	WATERBODY	-	0.00	0.04	-	BX	BX	BX	MAT BRIDGE OR EQUIVALENT
090314_DB_1007_E_MI	WATERBODY	-	0.00	0.03	-	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
090314_DB_1006_I_MI	WATERBODY	-	0.00	0.06	0.01	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

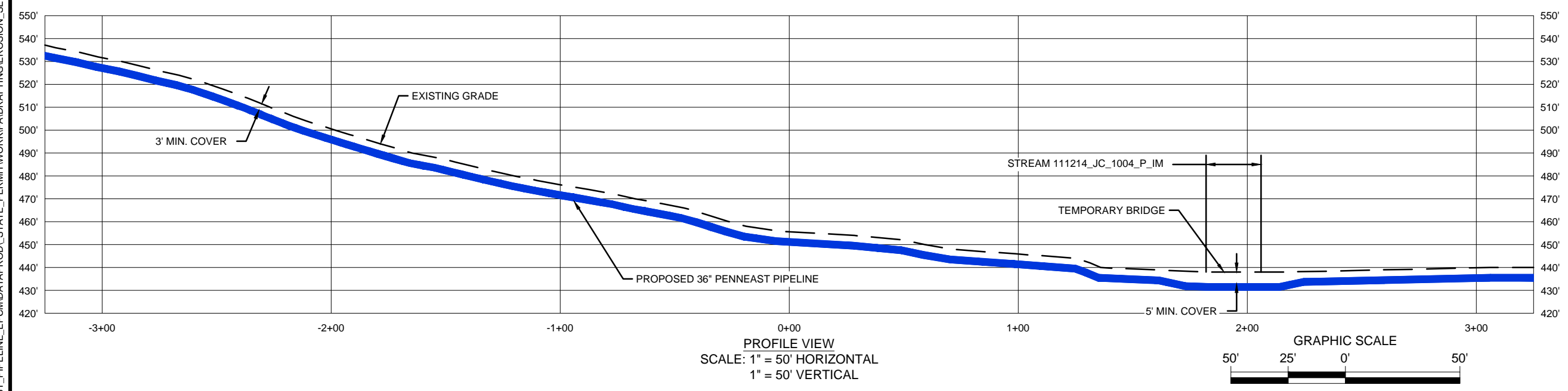
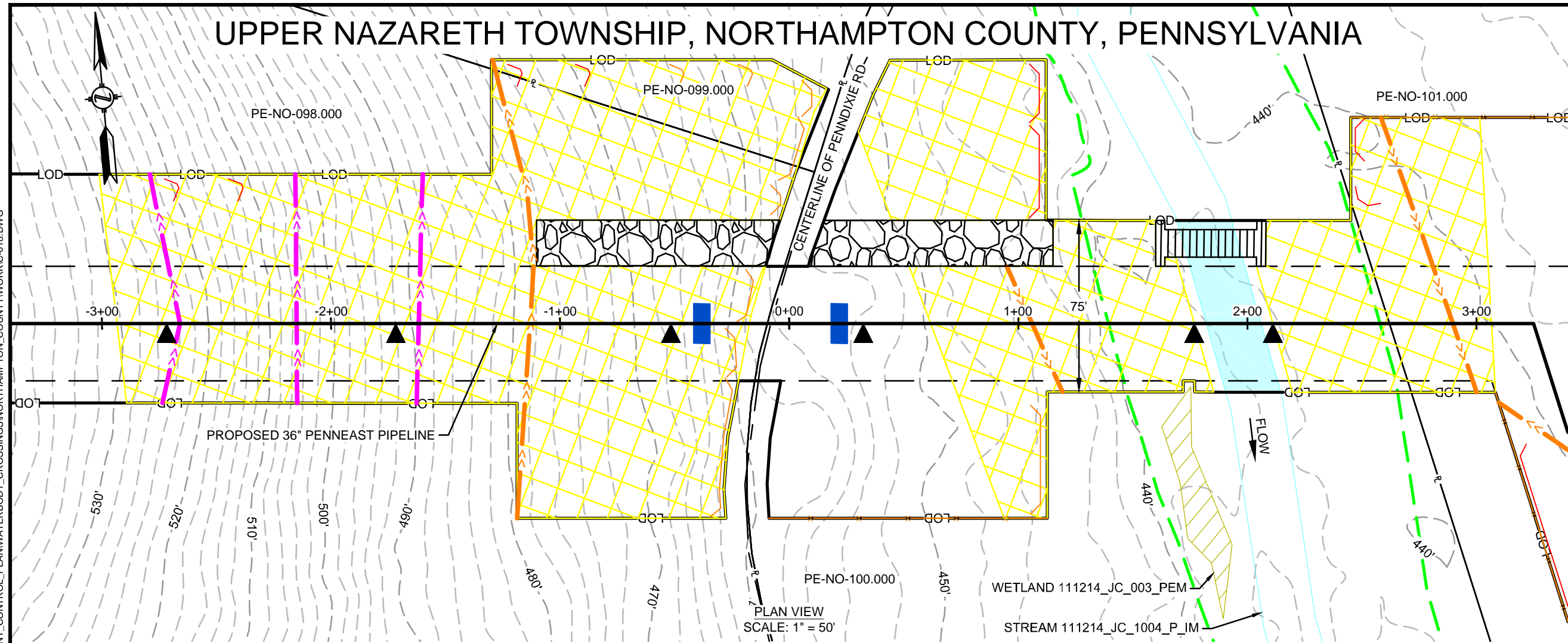
PREPARED FOR:

PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
 WETLAND & STREAM CROSSING PLAN  
 PROPOSED 36" PENNEAST PIPELINE  
 EAST ALLEN TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 60.6

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-018	0

# UPPER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID			
	EQUIPMENT CROSSING	PRIMARY	SECONDARY					TERTIARY		
		DPX	FX	CD	0.11	0.03	0.05	0.01	WATERBODY	111214_JC_1004_P_IM

11/15/2018 5:56 PM, MORALES, HECTOR  
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REVISIONS			APPROVALS		
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
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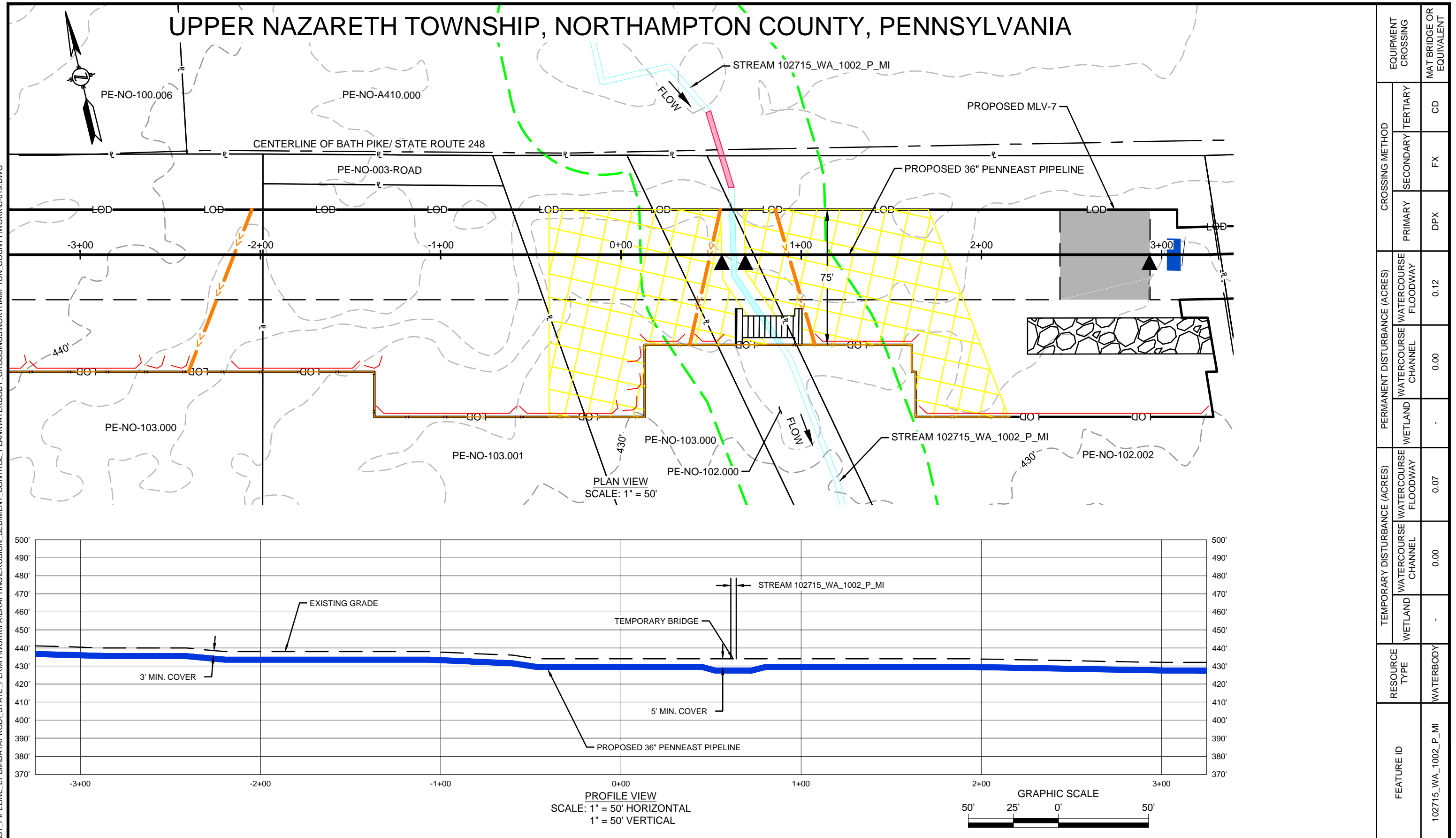
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE UPPER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 61.5R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-019	0

# UPPER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	TERTIARY	CD
	SECONDARY	FX
CROSSING METHOD	PRIMARY	DPX
	WATERCOURSE FLOODWAY	0.12
PERMANENT DISTURBANCE (ACRES)	WATERCOURSE CHANNEL	0.00
	WETLAND	-
TEMPORARY DISTURBANCE (ACRES)	WATERCOURSE FLOODWAY	0.07
	WATERCOURSE CHANNEL	0.00
RESOURCE TYPE	WATERBODY	
FEATURE ID	102715_WA_1002_P_MI	

11/15/2018 11:33 PM, RODRIGUEZ, ROBERTO J  
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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
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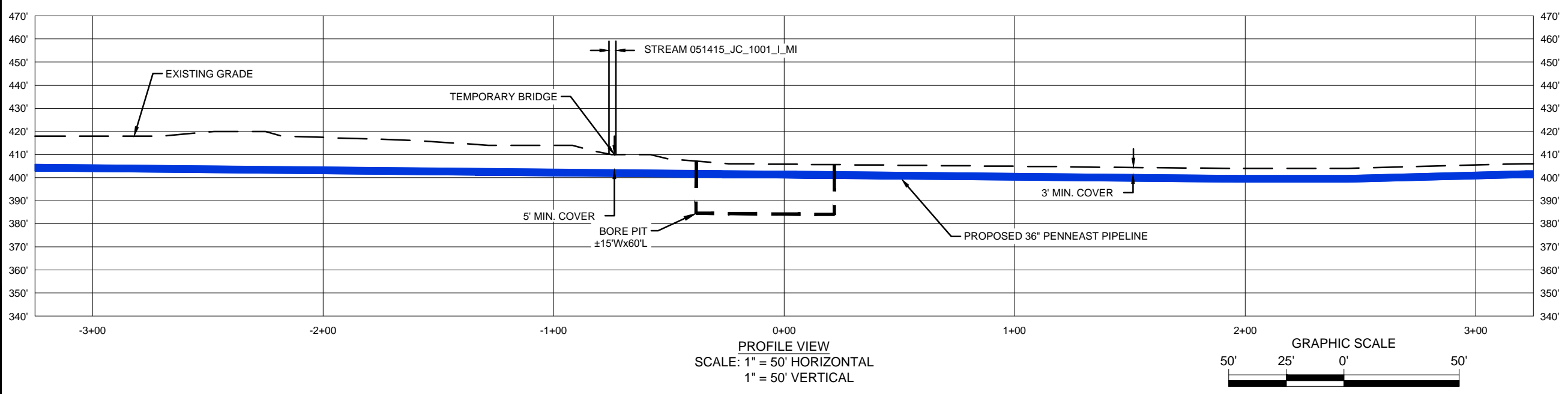
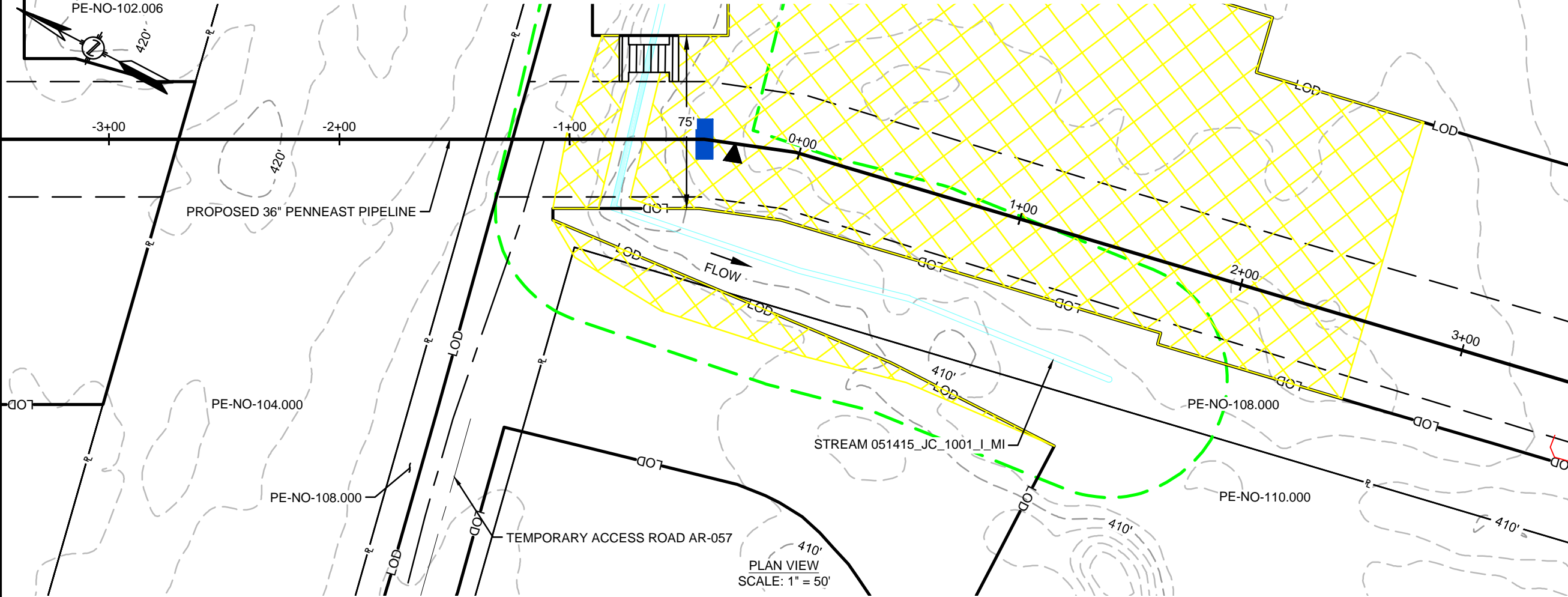
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE UPPER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 62.4R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-020	0

# UPPER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
051415_JC_1001_I_MI	WATERBODY	-	0.27	-	0.24	BX	BX	BX	MAT BRIDGE OR EQUIVALENT

11/15/2018 11:27 PM, RODRIGUEZ, ROBERTO J  
G:\PENNEAST\353754\_PENNEAST\_PIPELINE\_EPC\MDATA\PROD\_STATE\_PERMIT\WORK\PAIDRAFTING\EROSION\_SEDIMENT\_CONTROL\_PLAN\WATERBODY\_CROSSINGS\NORTHAMPTON\_COUNTY\WORKC-020.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

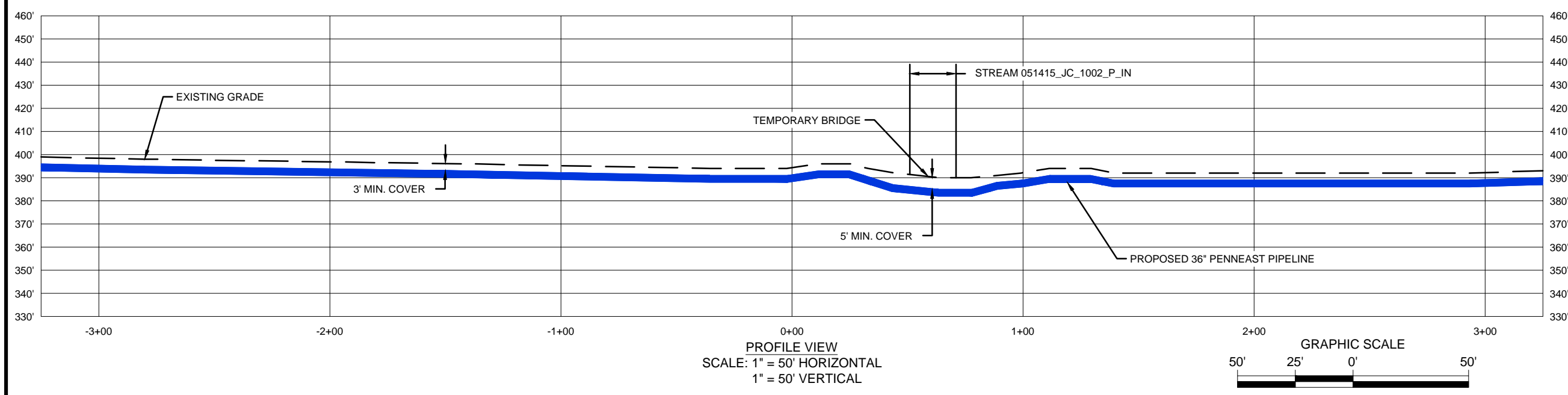
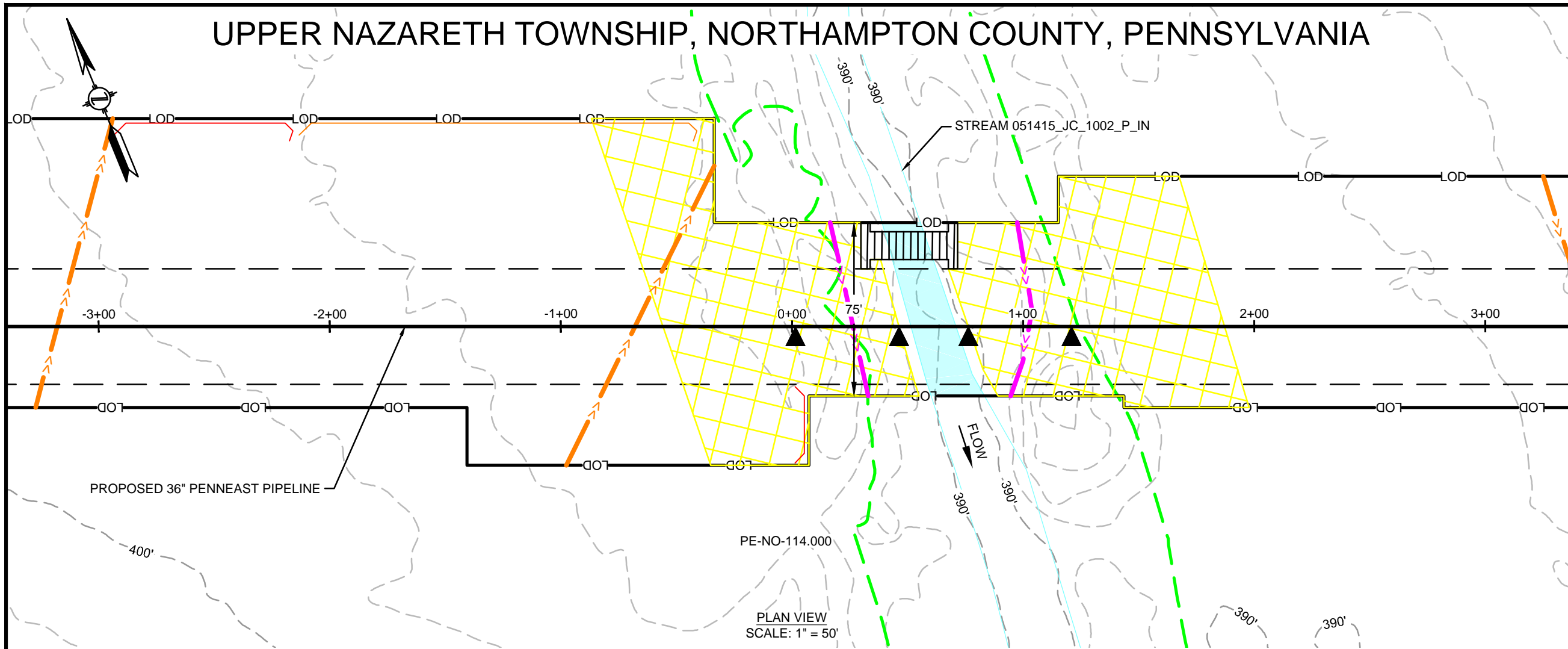
PREPARED FOR:



PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN		
PROPOSED 36" PENNEAST PIPELINE		
UPPER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA		
M.P. 62.8R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-021	0

# UPPER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
051415_JC_1002_P_IN	WATERBODY	-	0.01	0.05	-	0.02	0.09	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



PREPARED BY:

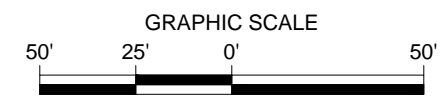
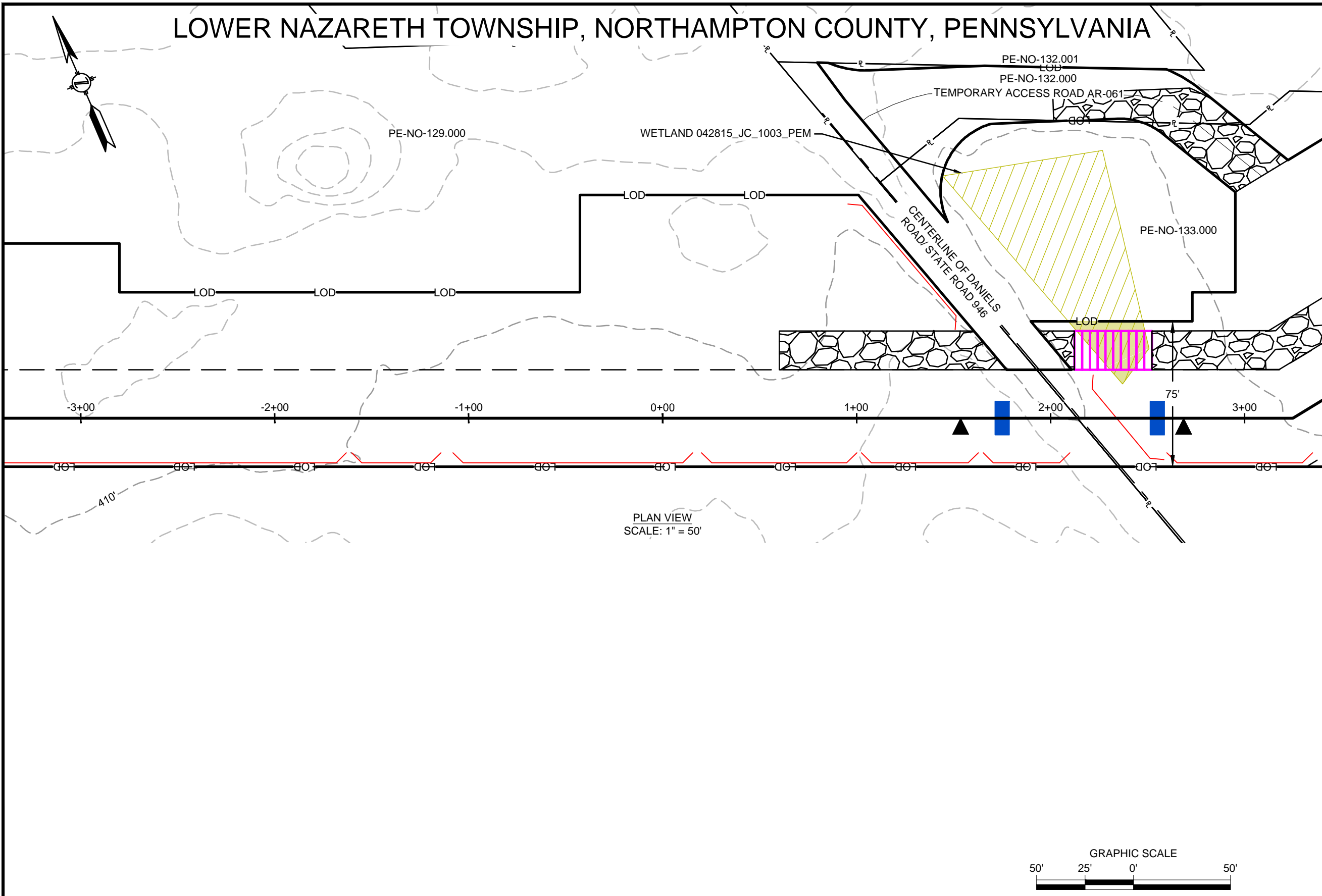
**PENNEAST PIPELINE PROJECT**

WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
UPPER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 63.5

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-022	0



# LOWER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	042815_JC_1003_PEM	
	RESOURCE TYPE	WETLAND
PERMANENT DISTURBANCE (ACRES)	WETLAND	0.02
	WATERCOURSE CHANNEL	-
	WATERCOURSE FLOODWAY	-
	WATERCOURSE FLOODWAY	-
CROSSING METHOD	PRIMARY	N/A - WORKSPACE
	SECONDARY	-
	TERTIARY	-
	EQUIPMENT CROSSING	MATTED

11/15/2018 5:43 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

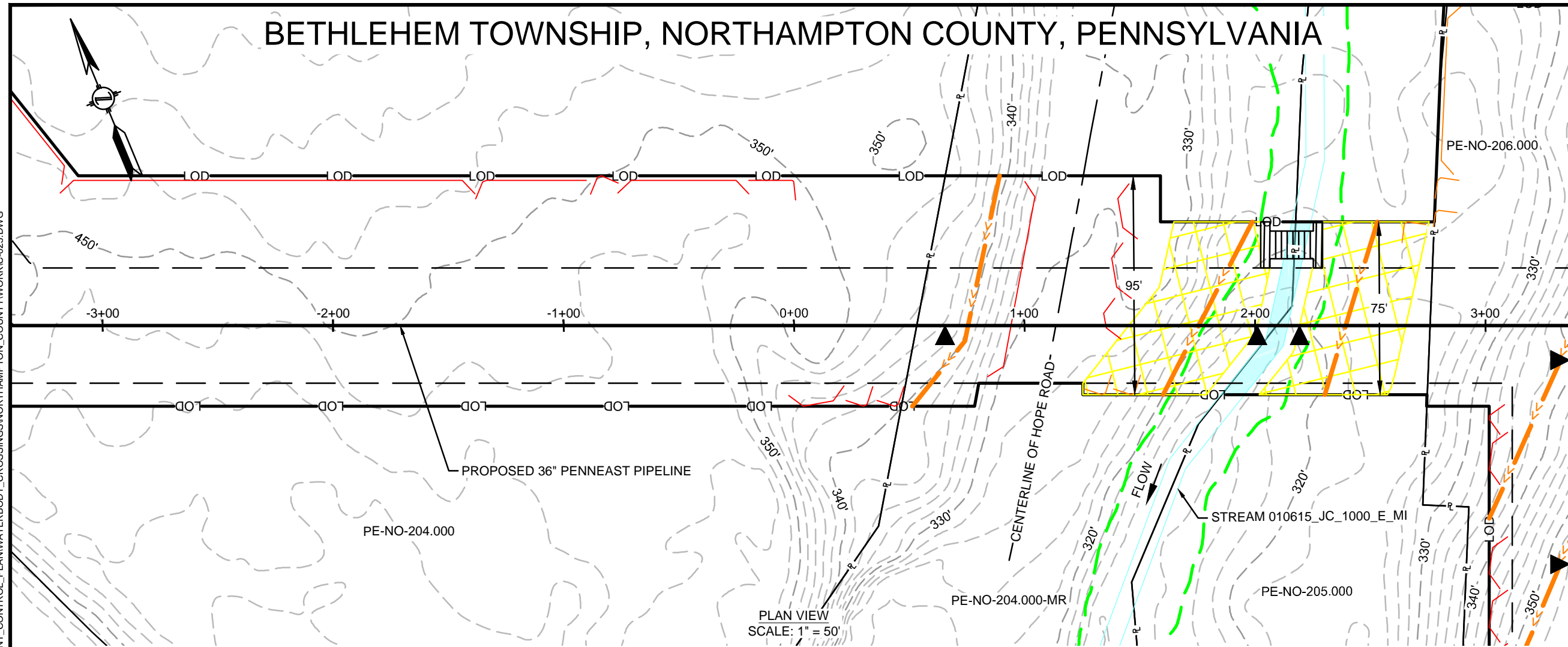
PREPARED BY:

SCALE: 1"=50'

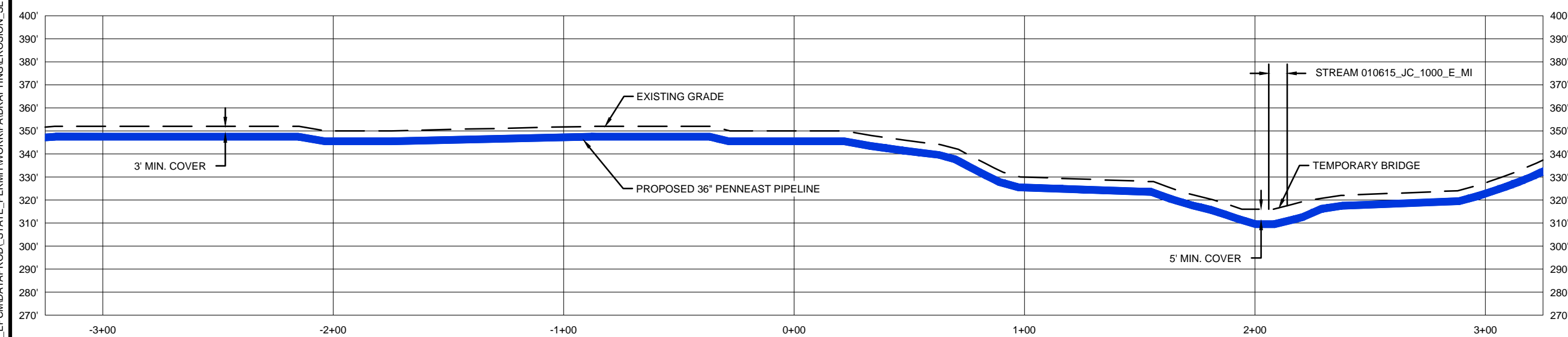
PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE LOWER NAZARETH TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 64.3R2		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-023	0

11/15/2018 10:58 PM, RODRIGUEZ, ROBERTO J  
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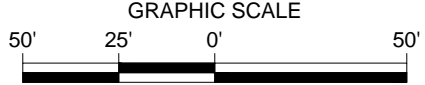
# BETHLEHEM TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
 SCALE: 1" = 50'



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



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
010615_JC_1000_E_MI	WATERBODY	-	0.00	-	0.01	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

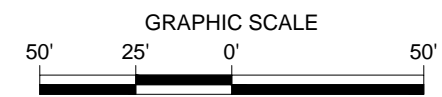
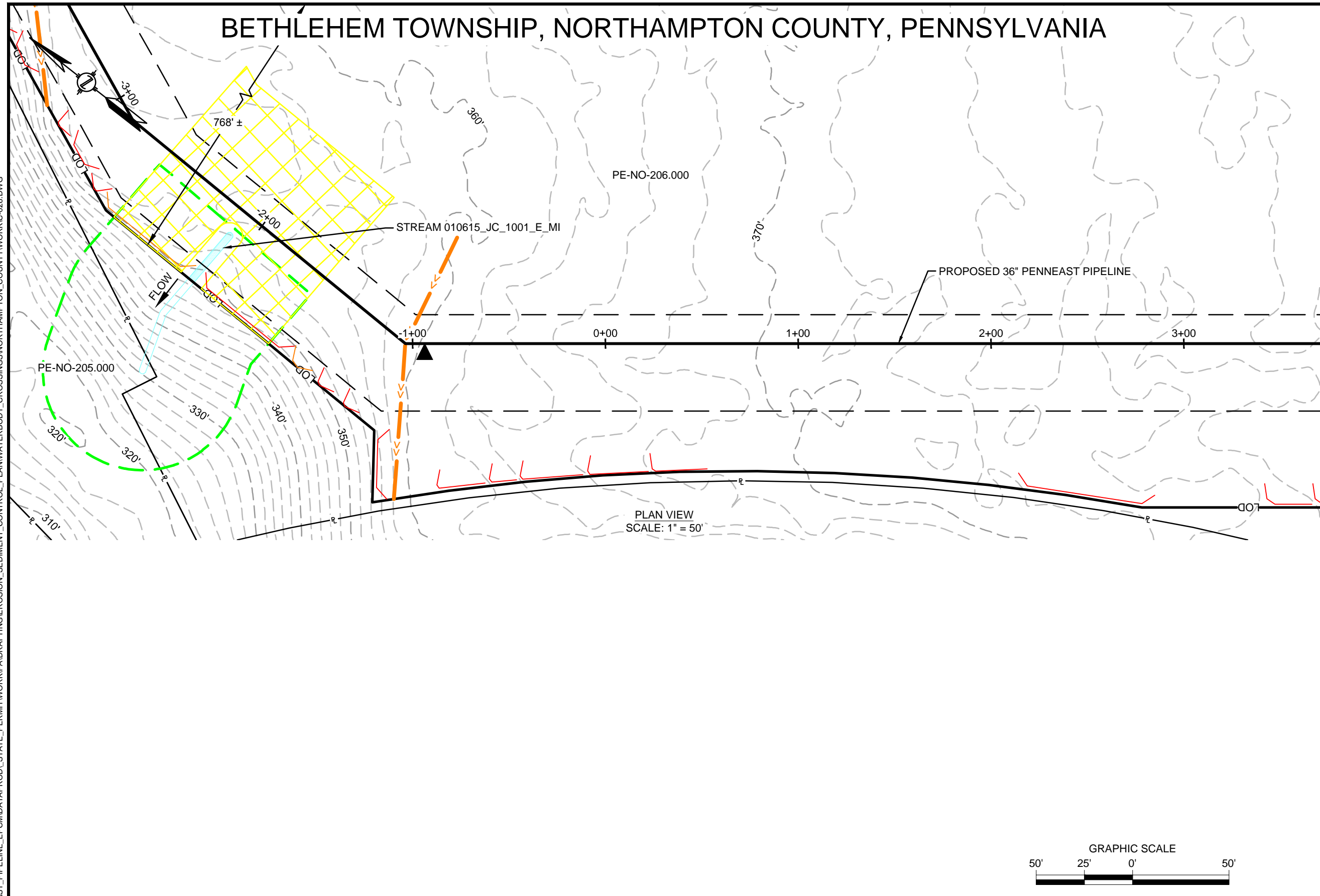
PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
 WETLAND & STREAM CROSSING PLAN  
 PROPOSED 36" PENNEAST PIPELINE  
 BETHLEHEM TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 70.6R3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-024	0

11/15/2018 11:19 PM, MORALES, HECTOR  
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# BETHLEHEM TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)				PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
010615_JC_1001_E_MI	WATERBODY	-	0.00	0.02	-	0.00	0.06	N/A	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
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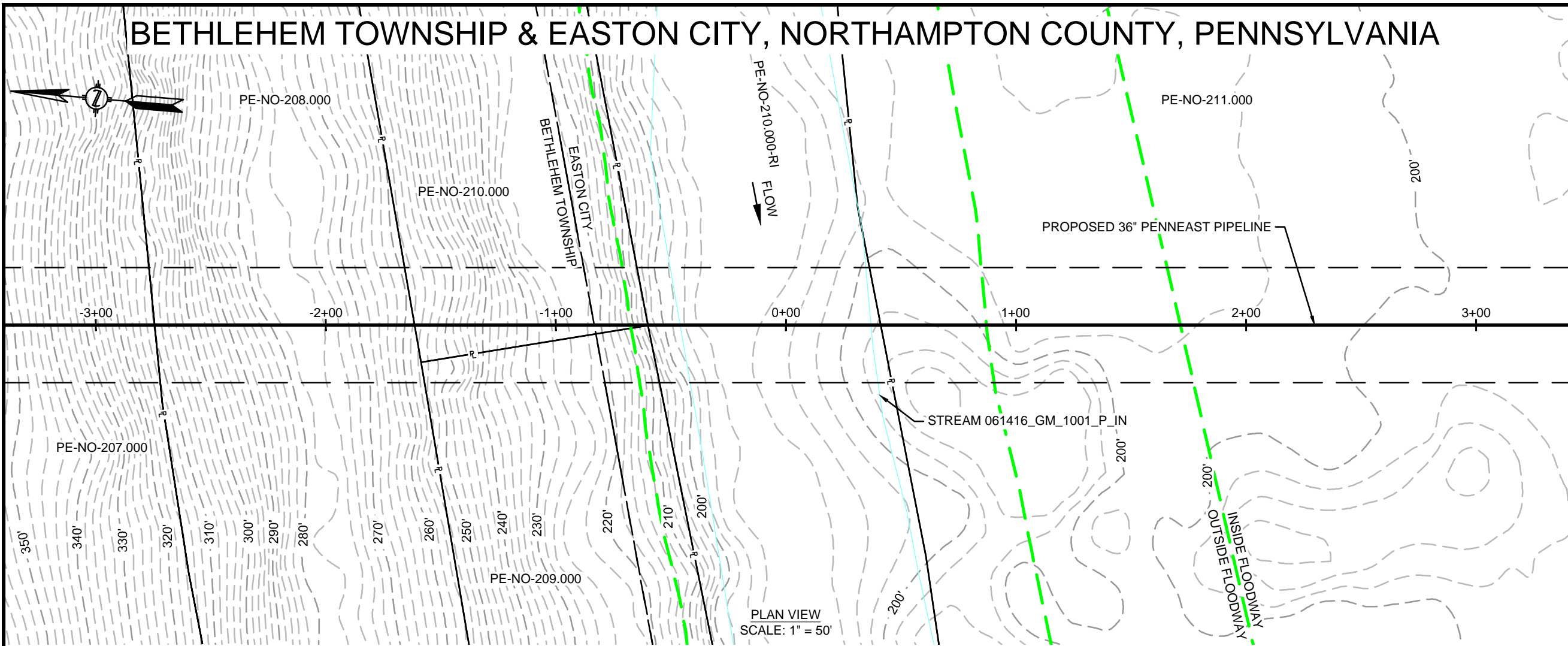
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

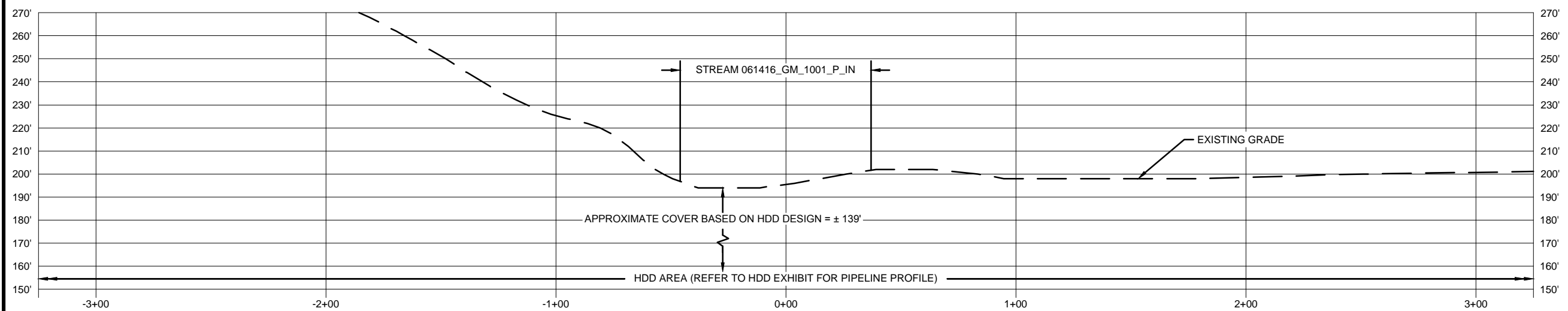
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE BETHLEHEM TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 70.7R3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-025	0

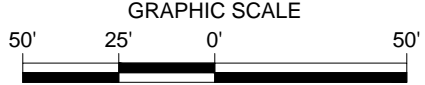
# BETHLEHEM TOWNSHIP & EASTON CITY, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID		
	PRIMARY	SECONDARY	TERTIARY					WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY
	HDD	HDD	HDD	0.00	0.01	WATERBODY	061416_GM_1001_P_IN		

12/7/2018 3:32 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

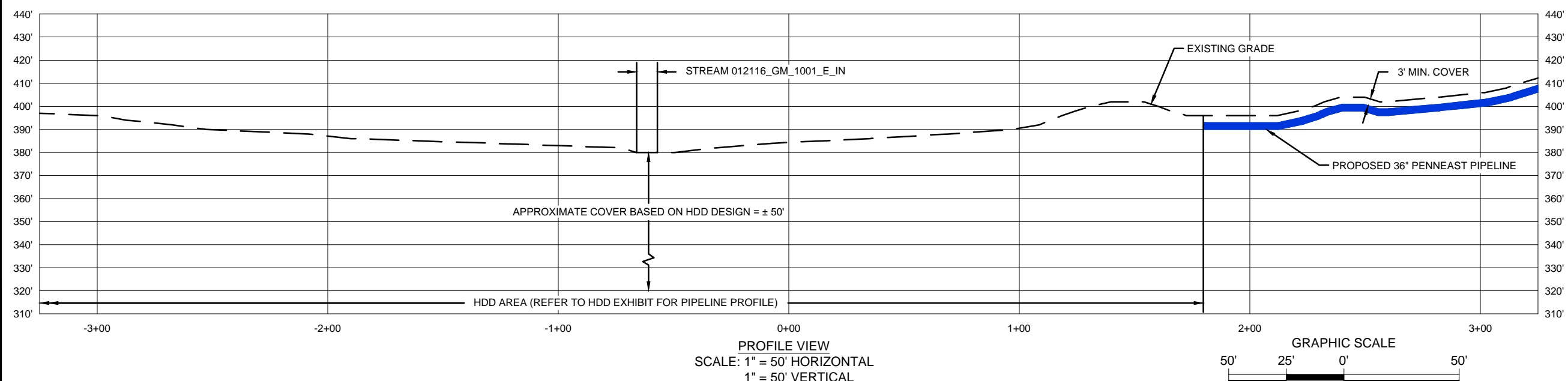
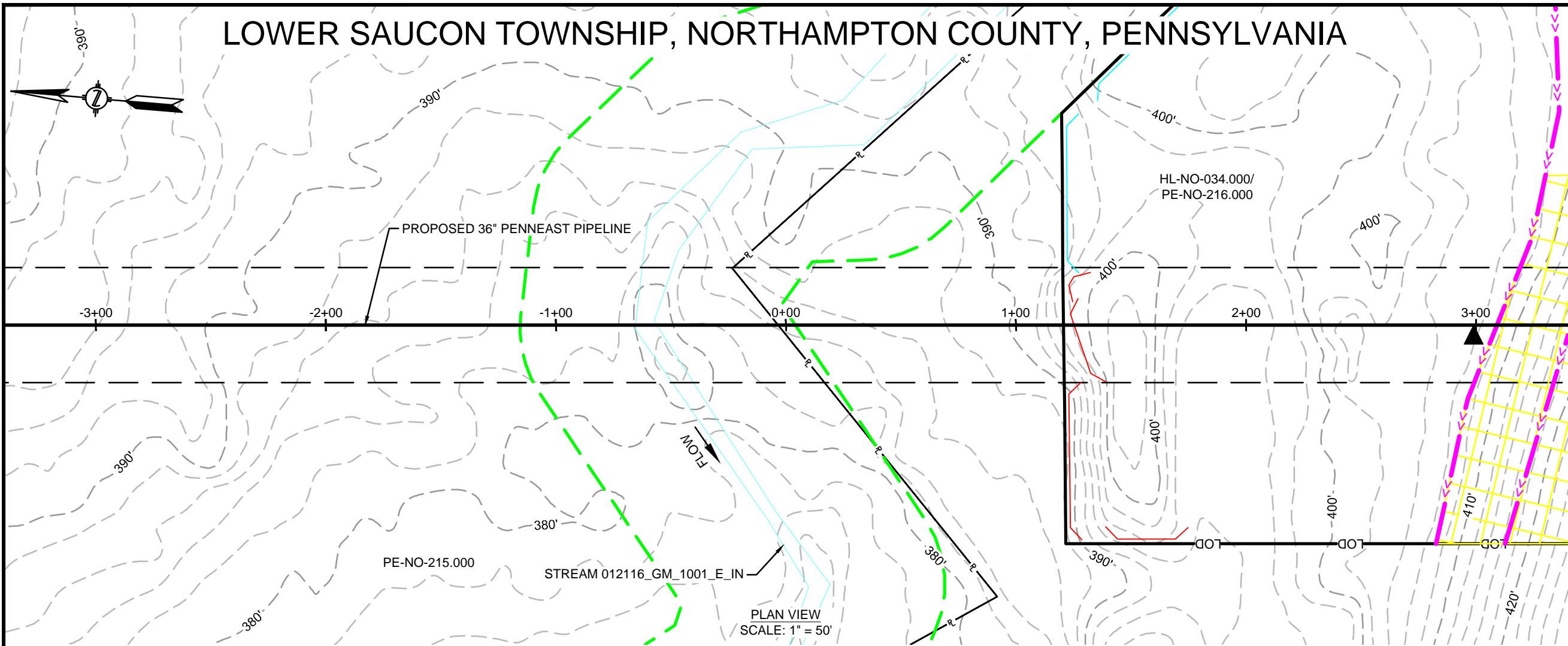
PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE BETHLEHEM TOWNSHIP & EASTON CITY, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 70.9		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-026	0



# LOWER SAUCON TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)	TEMPORARY DISTURBANCE (ACRES)	RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY				
	HDD	HDD	HDD	0.01	0.00	WATERBODY	012116_GM_1001_E_IN

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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

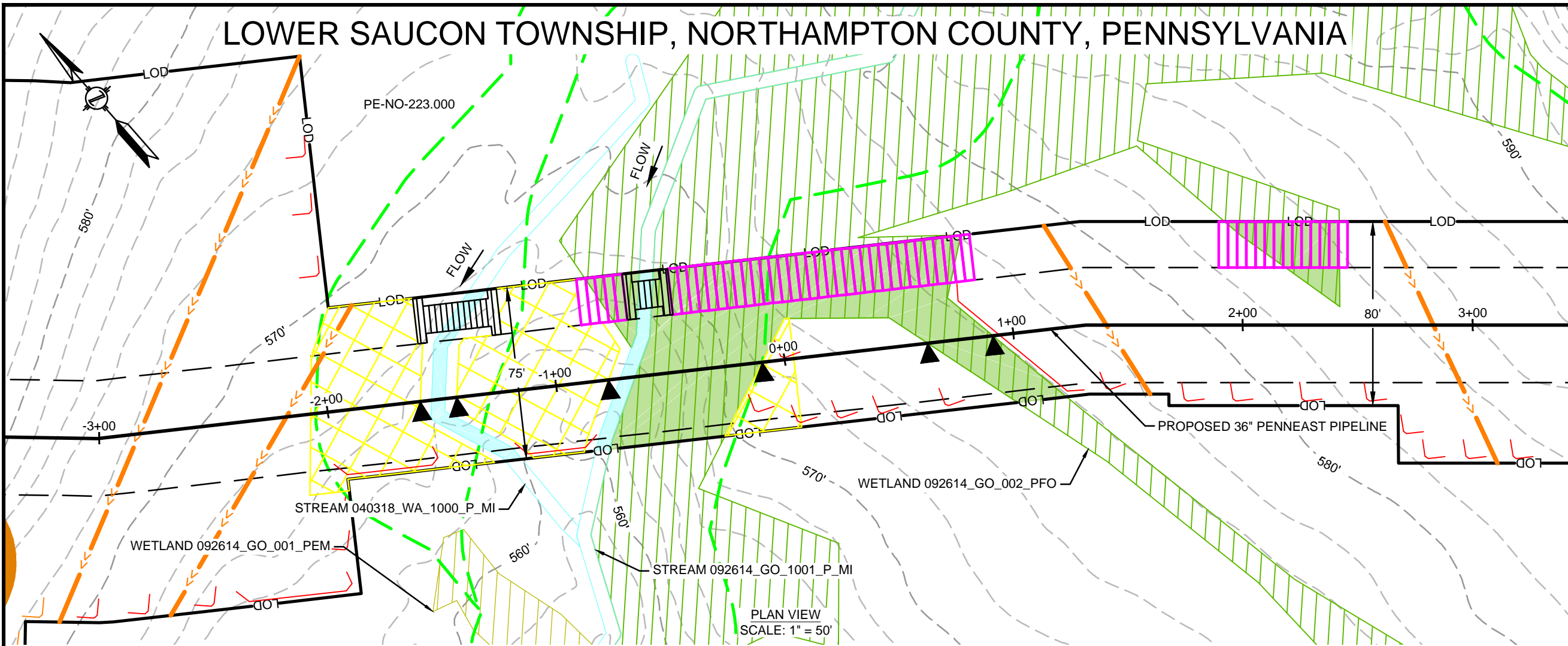
PREPARED FOR:

PREPARED BY:

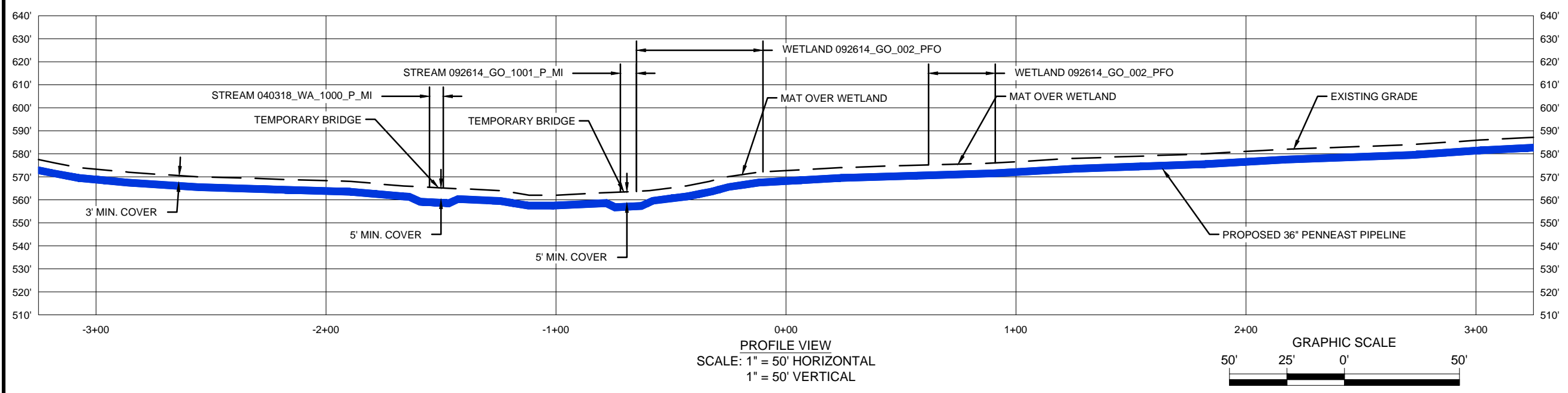
PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE LOWER SAUCON TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 71.4		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-028	0



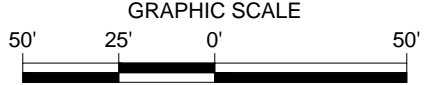
# LOWER SAUCON TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
092614_GO_002_PFO - 1	WETLAND	0.08	-	0.11	-	CL - OPEN CUT	-	-	MATTED
092614_GO_002_PFO - 2	WETLAND	0.02	-	0.00	-	CL - OPEN CUT	-	-	MATTED
040318_WA_1000_P_MI	WATERBODY	-	0.04	-	0.08	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
092614_GO_1001_P_MI	WATERBODY	-	0.06	-	0.12	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 11:21 PM, MORALES, HECTOR  
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REVISIONS			APPROVALS		
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

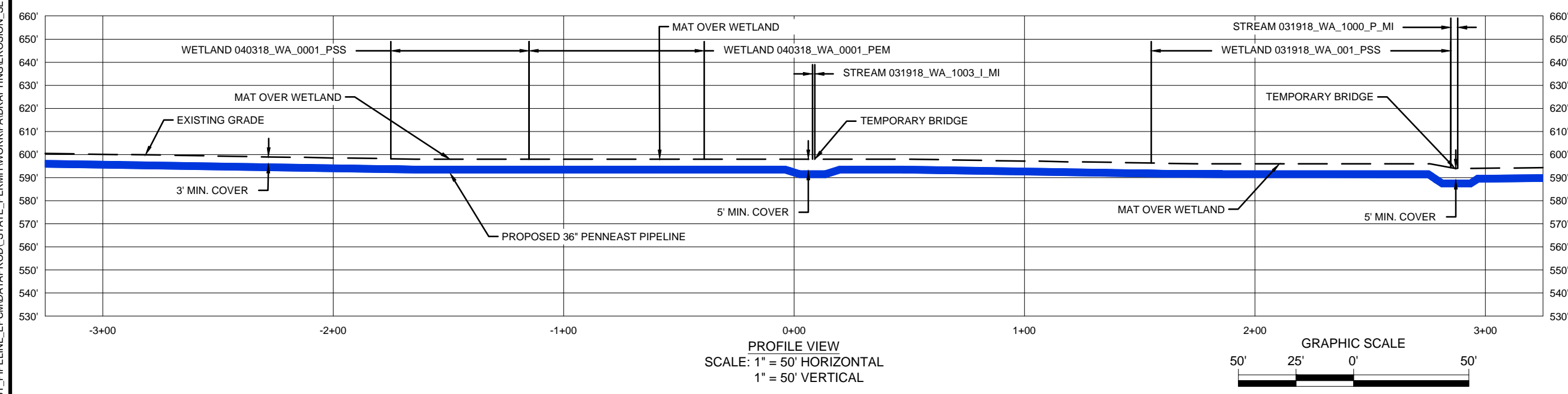
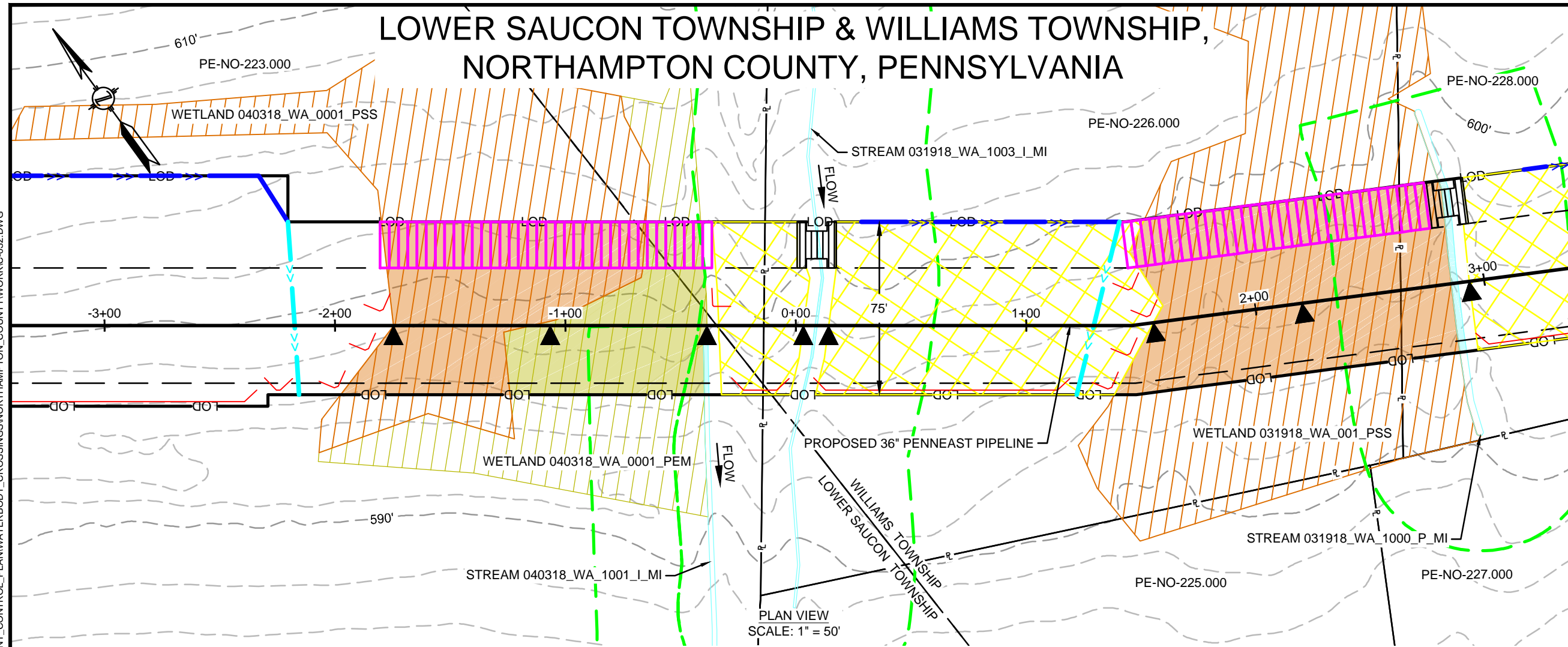
PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
**WETLAND & STREAM CROSSING PLAN**  
**PROPOSED 36" PENNEAST PIPELINE**  
 LOWER SAUCON TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 72.1

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-030	0



# LOWER SAUCON TOWNSHIP & WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)			TEMPORARY DISTURBANCE (ACRES)			RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND		
MATTED	CL - OPEN CUT	-	-	-	-	0.15	-	-	0.08	WETLAND	031918_WA_001_PSS
MATTED	CL - OPEN CUT	-	-	-	-	0.08	-	-	0.02	WETLAND	040318_WA_0001_PEM
MATTED	CL - OPEN CUT	-	-	-	-	0.09	-	-	0.06	WETLAND	040318_WA_0001_PSS
MAT BRIDGE OR EQUIVALENT	DPX	FX	CD	0.00	0.11	-	0.00	0.06	-	WATERBODY	031918_WA_1000_P_MI
MAT BRIDGE OR EQUIVALENT	DPX	FX	DX-NF	0.00	0.12	-	0.00	0.06	-	WATERBODY	031918_WA_1003_I_MI
MAT BRIDGE OR EQUIVALENT	N/A	N/A	N/A	0.00	0.03	-	-	0.00	-	WATERBODY	040318_WA_1001_I_MI

12/7/2018 3:00 PM, MORALES, HECTOR  
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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

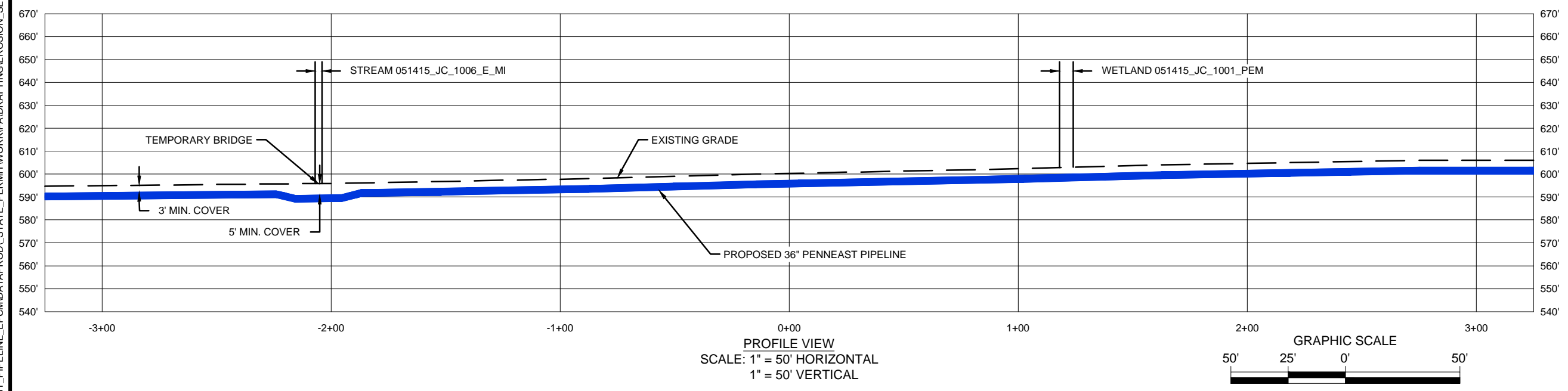
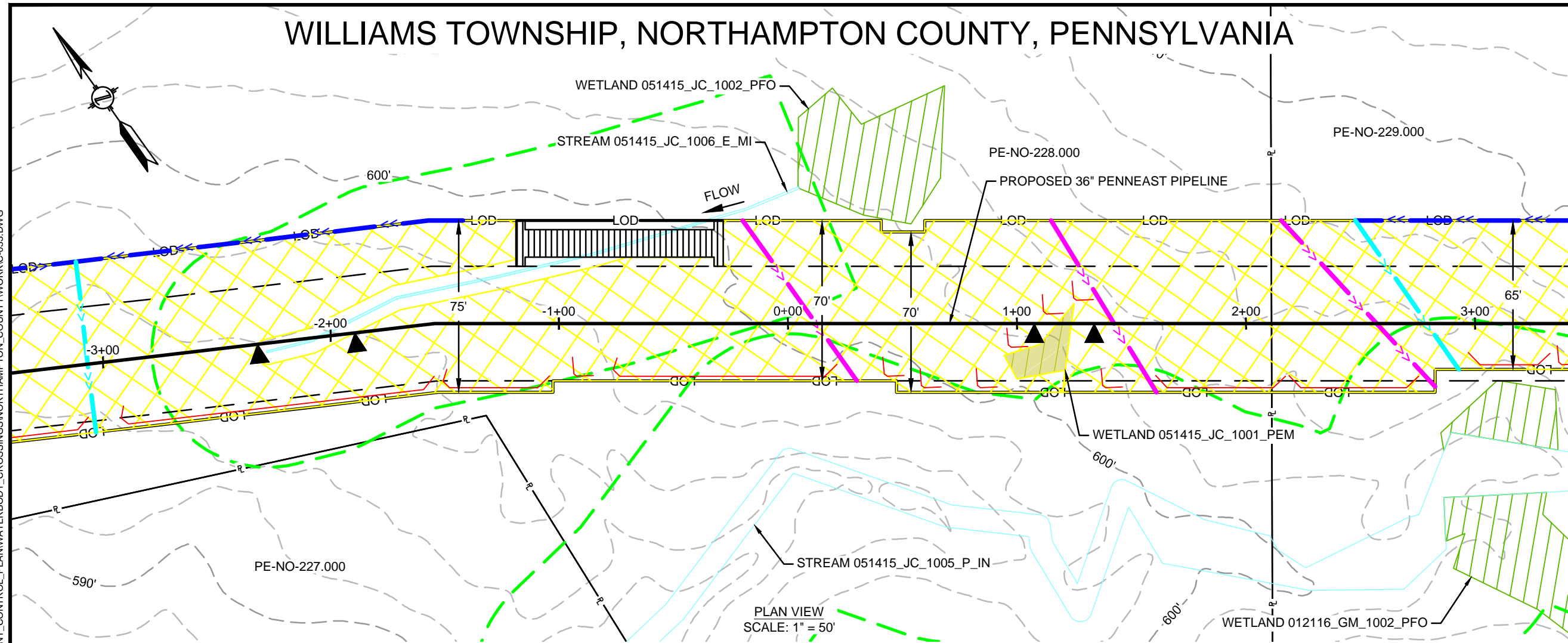


PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
**WETLAND & STREAM CROSSING PLAN**  
**PROPOSED 36" PENNEAST PIPELINE**  
 LOWER SAUCON TOWNSHIP & WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 72.4

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-031	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
051415_JC_1001_PEM	WETLAND	-	-	0.01	-	CL - OPEN CUT	-	-	MATTED
051415_JC_1006_E_MI	WATERBODY	-	0.00	-	0.28	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
051415_JC_1005_P_IN	WATERBODY	-	-	-	0.11	N/A	N/A	N/A	N/A - WORKSPACE

11/15/2018 11:23 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



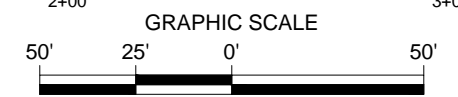
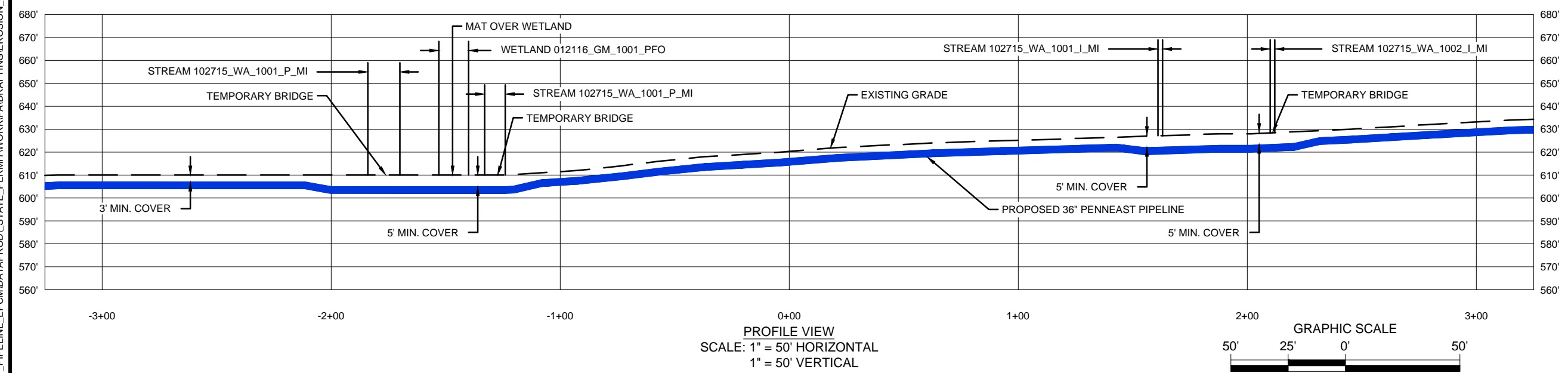
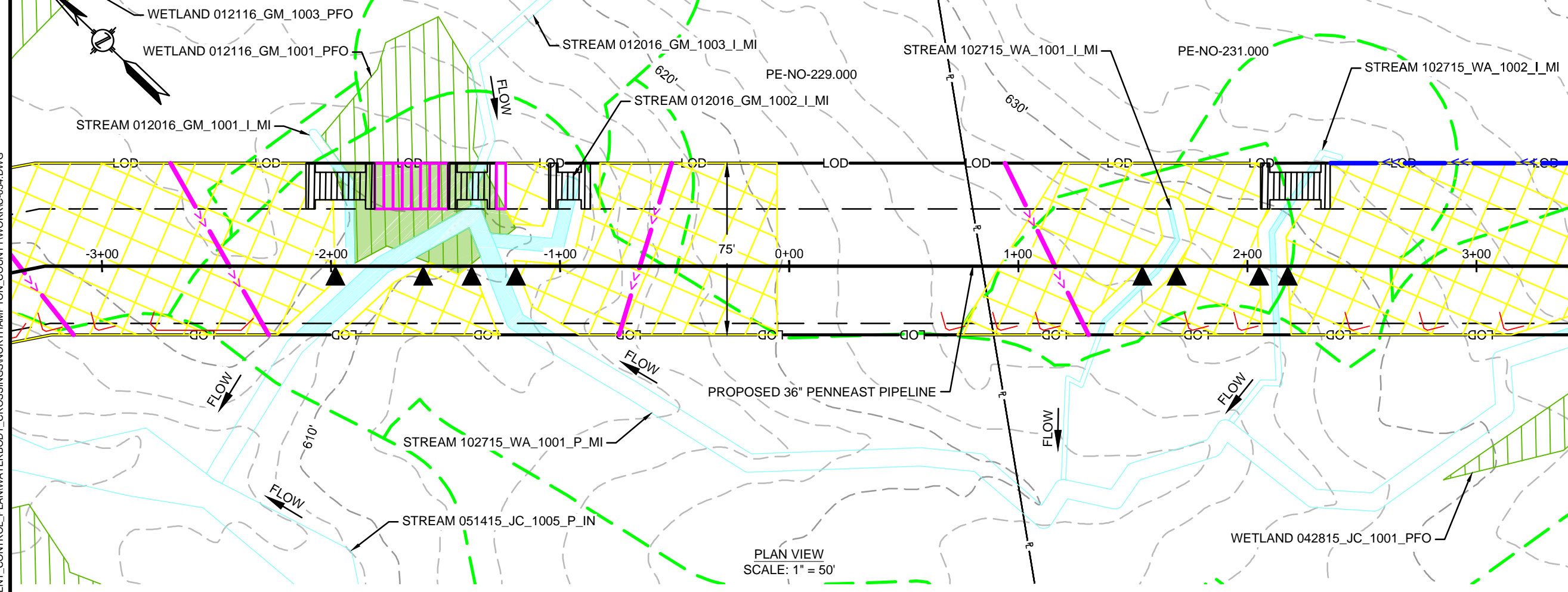
PREPARED BY:



**PENNEAST PIPELINE PROJECT**  
WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 72.6

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-032	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



11/15/2018 11:24 PM, MORALES, HECTOR  
G:\PENNEAST\353754\_PENNEAST\_PIPELINE\_EPC\DATA\PROD\_STATE\_PERMIT\WORK\PA\DRAWING\EROSION\_SEDIMENT\_CONTROL\_PLAN\WATERBODY\_CROSSINGS\NORTHAMPTON\_COUNTY\WORK\034.DWG

REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 72.7		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-033A	0

11/15/2018 7:22 PM, MORALES, HECTOR  
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FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
012116_GM_1001_PFO	WETLAND	0.03	-	-	0.02	-	-	CL - OPEN CUT	-	-	MATTED
102715_WA_1002_I_MI	WATERBODY	-	0.00	0.04	-	0.00	0.06	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
012016_GM_1003_I_MI	WATERBODY	-	0.00	0.00	-	0.00	-	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
012016_GM_1001_I_MI	WATERBODY	-	0.00	0.01	-	0.00	0.00	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
012016_GM_1002_I_MI	WATERBODY	-	0.00	0.02	-	0.01	0.01	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
102715_WA_1001_I_MI	WATERBODY	-	0.00	0.05	-	0.00	0.13	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
102715_WA_1001_P_MI - 1	WATERBODY	-	0.00	0.15	-	0.02	0.42	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
051415_JC_1005_P_IN	REFER TO DWG WSS-NT-ML-032 FOR IMPACT ACREAGES										

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
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CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

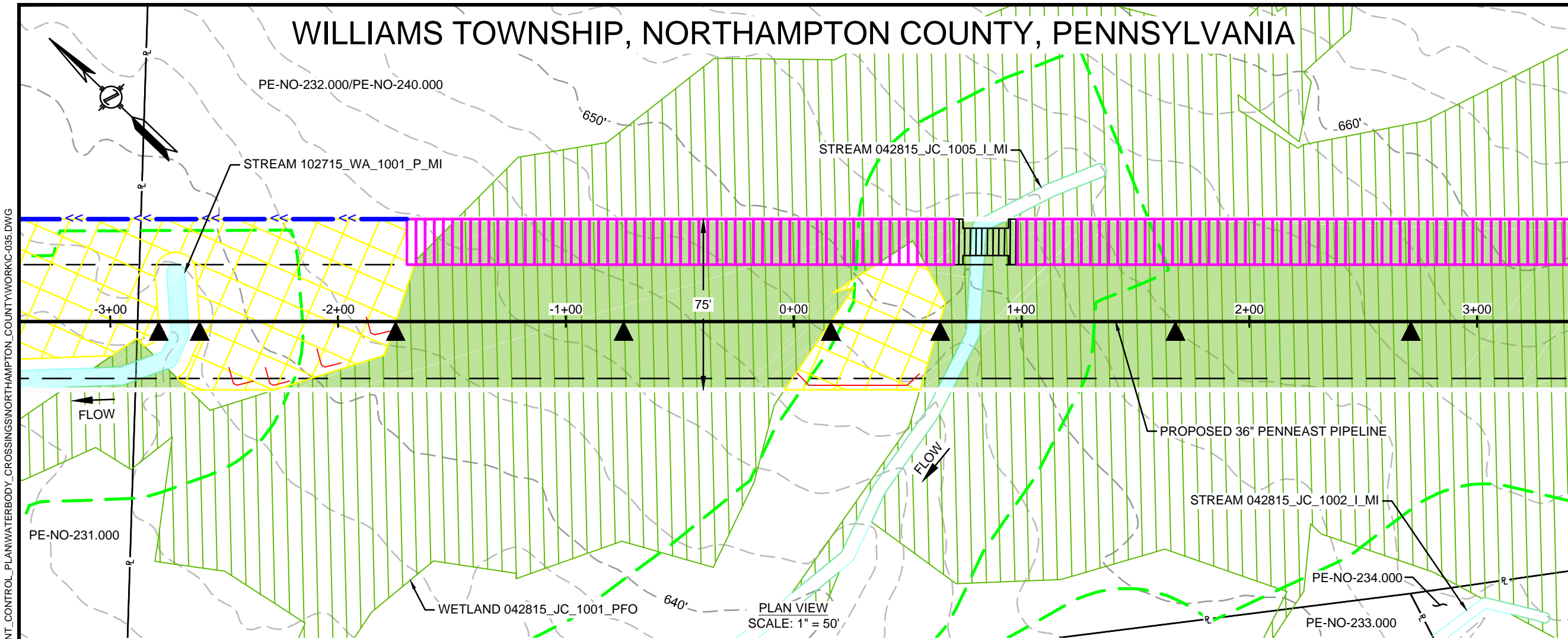
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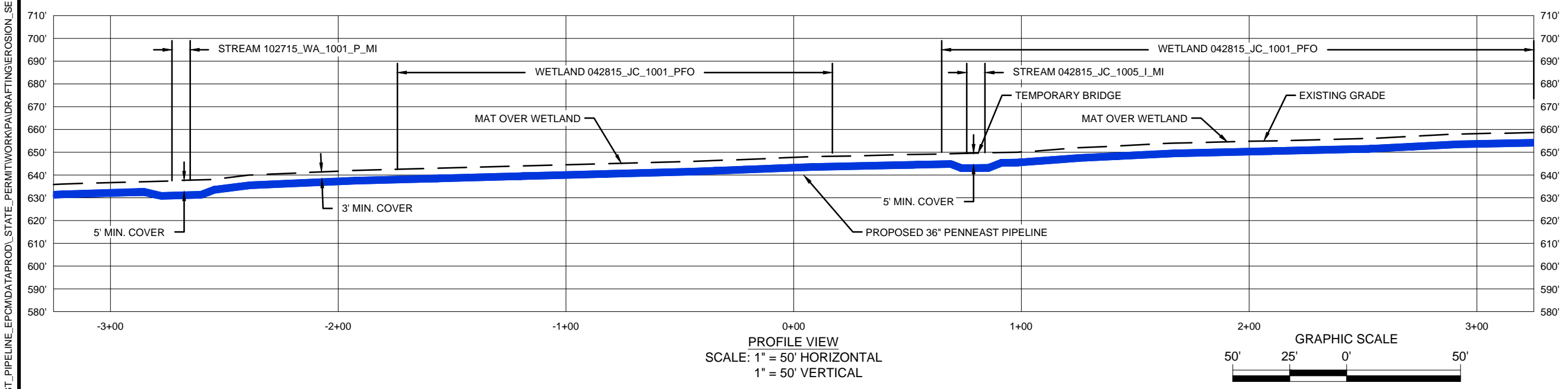
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 72.7		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-033B	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
042815_JC_1001_PFO - 1	WETLAND	0.00	-	0.00	-	N/A - WORKSPACE	-	-	MATTED
042815_JC_1001_PFO - 2	WETLAND	0.34	-	0.93	-	CL - OPEN CUT	-	-	MATTED
042815_JC_1005_I_MI	WATERBODY	-	0.00	-	0.01	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
102715_WA_1001_P_MI - 2	WATERBODY	-	0.01	-	0.02	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 7:24 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

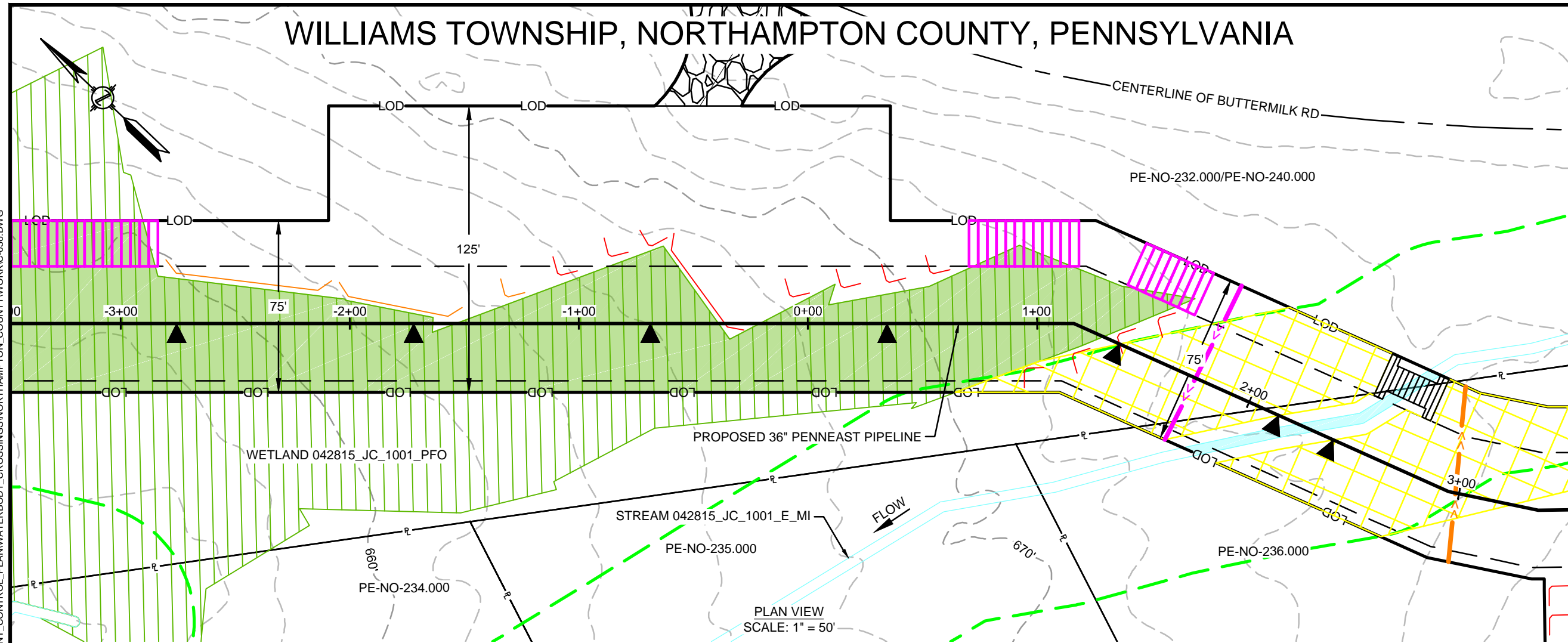
PREPARED BY:

**PENNEAST PIPELINE PROJECT**

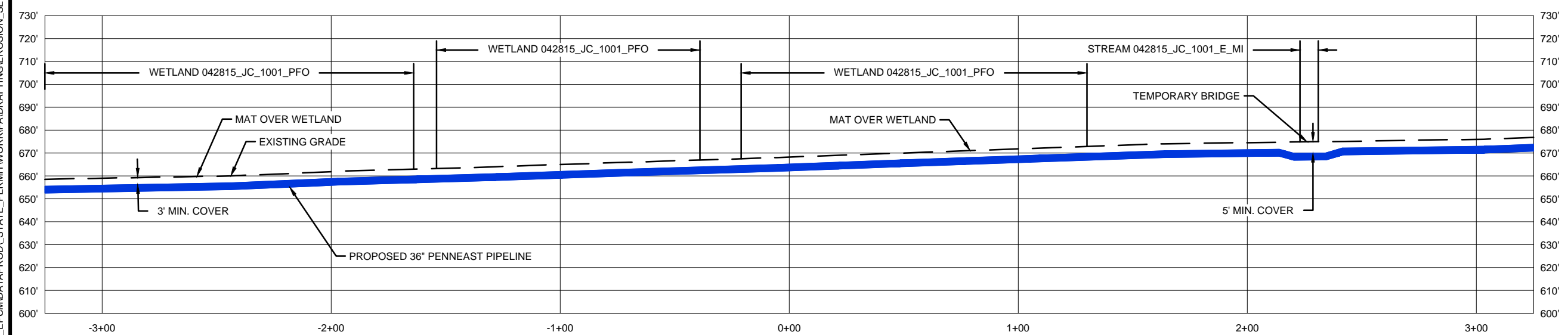
WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 72.8

SCALE 1"=50'	DRAWING NO. WSS-NT-ML-034	REVISION 0
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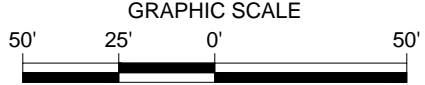
# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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



EQUIPMENT CROSSING	CROSSING METHOD			PERMANENT DISTURBANCE (ACRES)			TEMPORARY DISTURBANCE (ACRES)			RESOURCE TYPE	FEATURE ID
	PRIMARY	SECONDARY	TERTIARY	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND		
MAT BRIDGE OR EQUIVALENT	DX-NF	FX		0.01	0.19	-	0.00	0.13	-	WATERBODY	042815_JC_1001_PFO - 2 042815_JC_1001_E_MI
REFER TO DWG WSS-NT-ML-034 FOR IMPACT ACRES											

11/15/2018 9:44 PM, RODRIGUEZ, ROBERTO J  
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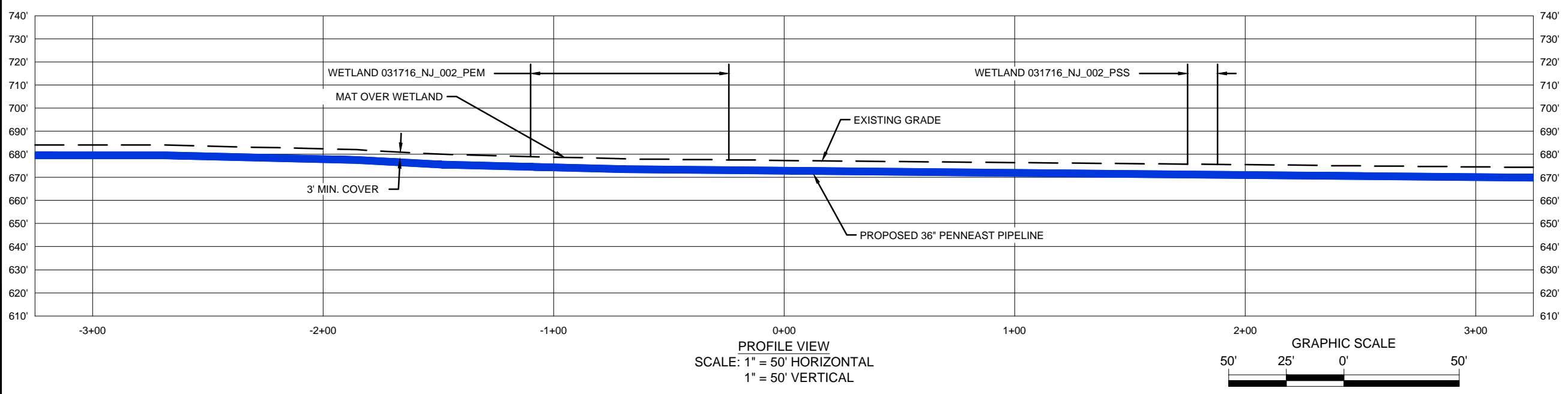
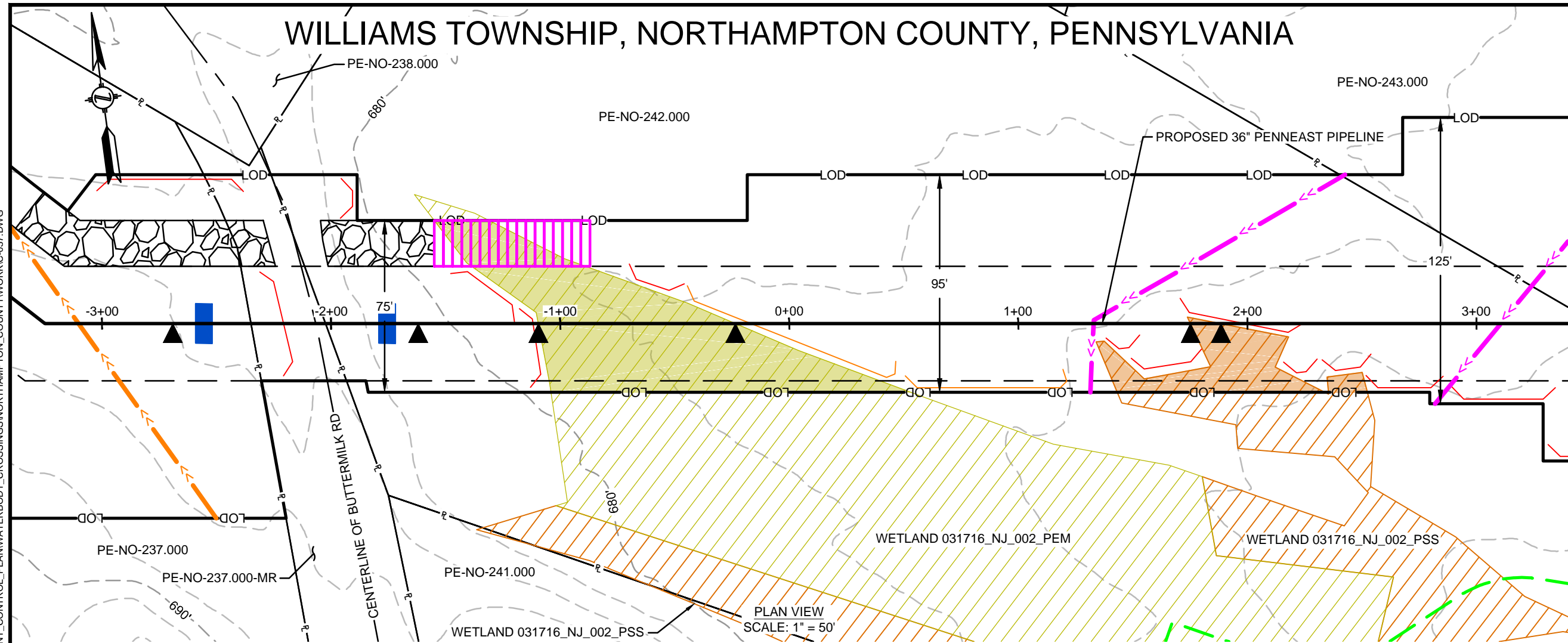
APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 72.9		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-035	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
031716_NJ_002_PSS - 1	WETLAND	0.01	-	0.03	-	CL - OPEN CUT	-	-	MATTED
031716_NJ_002_PSS - 2	WETLAND	0.00	-	0.00	-	N/A - WORKSPACE	-	-	MATTED
031716_NJ_002_PEM	WETLAND	0.03	-	0.10	-	CL - OPEN CUT	-	-	MATTED

11/15/2018 11:19 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

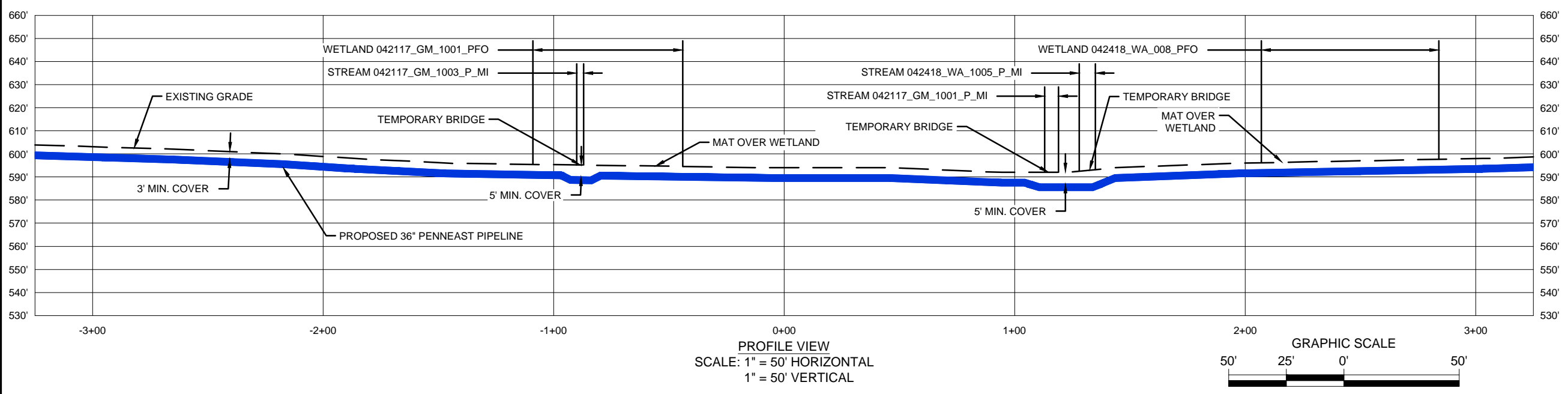
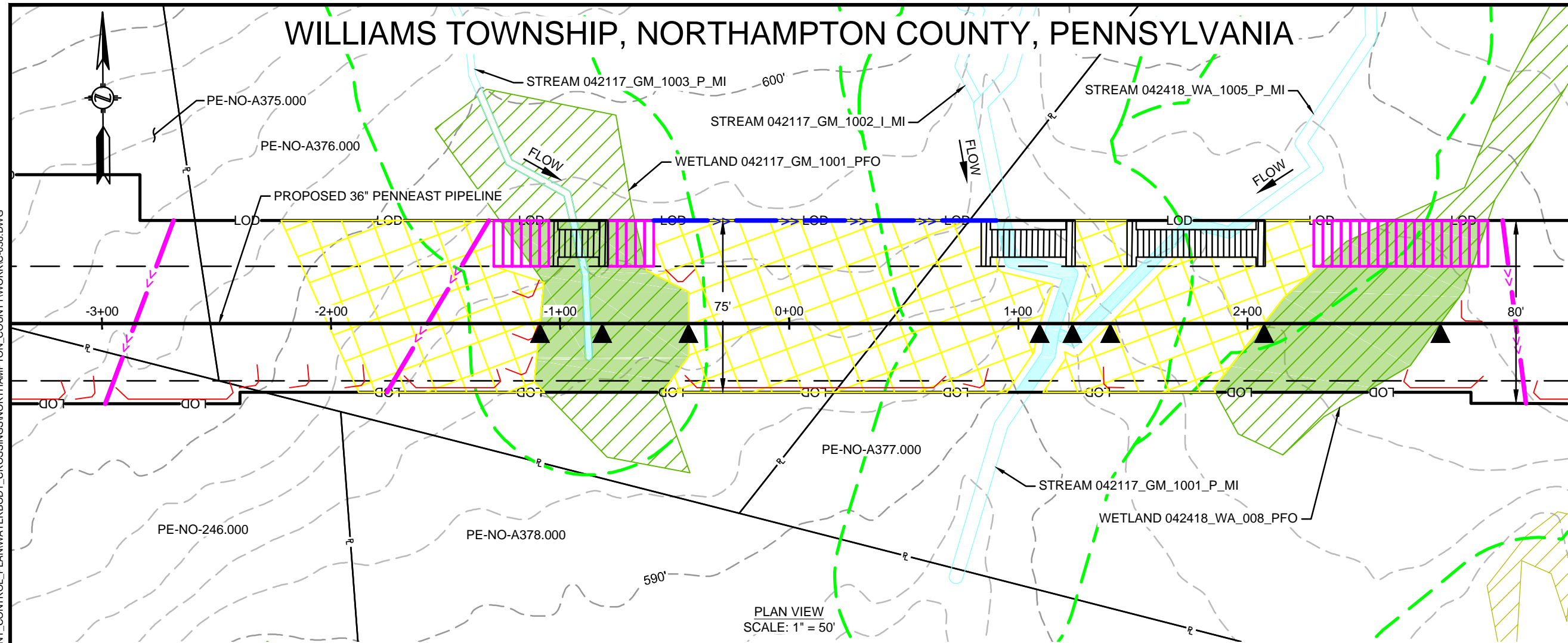


PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
**WETLAND & STREAM CROSSING PLAN**  
**PROPOSED 36" PENNEAST PIPELINE**  
 WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 73.1

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-036	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
042117_GM_1001_PFO	WETLAND	0.03	-	-	0.07	-	-	CL - OPEN CUT	-	-	MATTED
042418_WA_008_PFO	WETLAND	0.03	-	-	0.09	-	-	CL - OPEN CUT	-	-	MATTED
042117_GM_1001_P_MI	WATERBODY	-	0.00	0.07	-	0.01	0.13	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
042117_GM_1003_P_MI	WATERBODY	-	0.00	0.06	-	0.00	0.12	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
042418_WA_1005_P_MI	WATERBODY	-	0.01	0.04	-	0.01	0.06	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 11:05 PM, MORALES, HECTOR  
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REVISIONS				APPROVALS		
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL	
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD	

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



PREPARED BY:

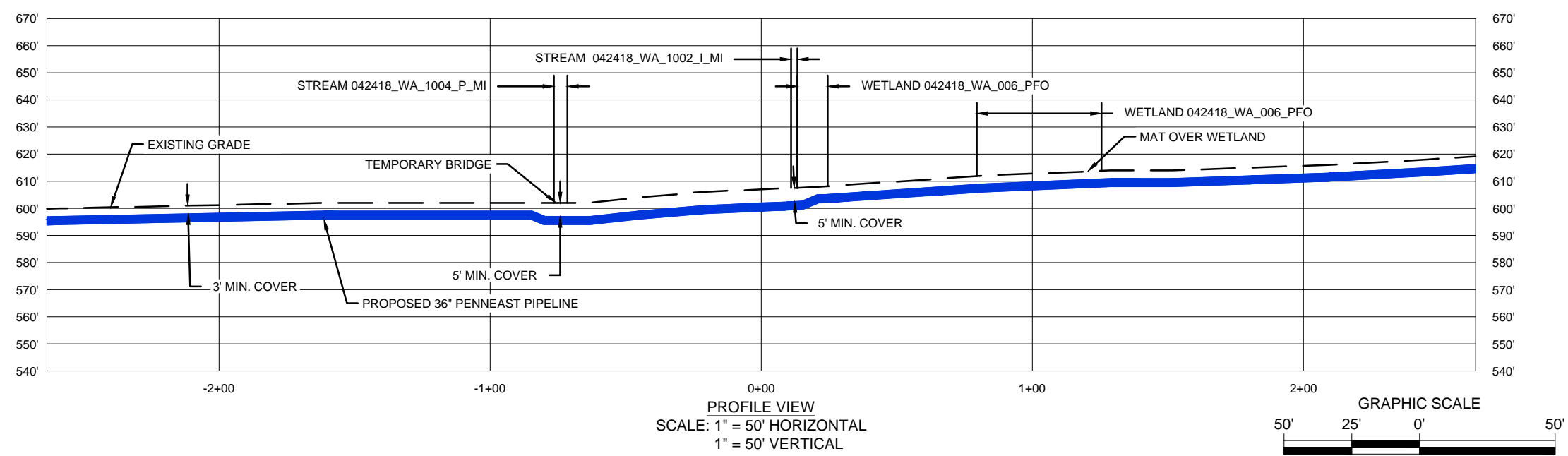
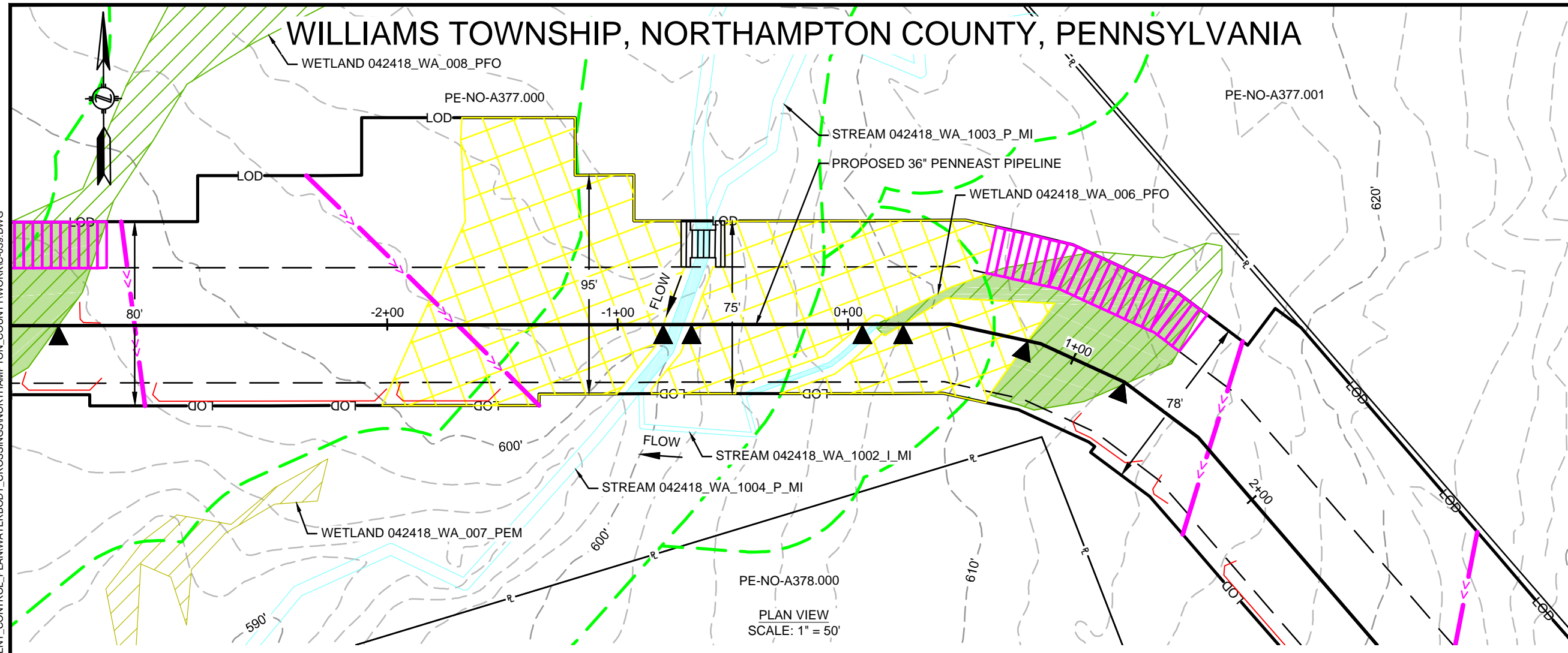
**PENNEAST PIPELINE PROJECT**

WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 73.6R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-037	0



# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
042418_WA_006_PFO	WETLAND	0.03	-	0.06	-	CL-OPEN CUT	-	-	MATTED
042418_WA_1002_I_MI - 1	WATERBODY	-	0.00	-	-	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
042418_WA_1002_I_MI - 2	WATERBODY	-	0.00	-	0.09	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
042418_WA_1003_P_MI	WATERBODY	-	0.00	-	-	N/A	N/A	N/A	MAT BRIDGE OR EQUIVALENT
042418_WA_1004_P_MI	WATERBODY	-	0.00	-	0.13	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
042418_WA_008_PFO	WATERBODY	-	0.00	-	0.07	-	-	-	MAT BRIDGE OR EQUIVALENT

REFER TO DWG WSS-NT-ML-037 FOR IMPACT ACRES

11/15/2018 9:35 PM, RODRIGUEZ, ROBERTO J  
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REVISIONS			DRAWN	CHECK	APPROVAL
NO.	DATE	DESCRIPTION			
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:



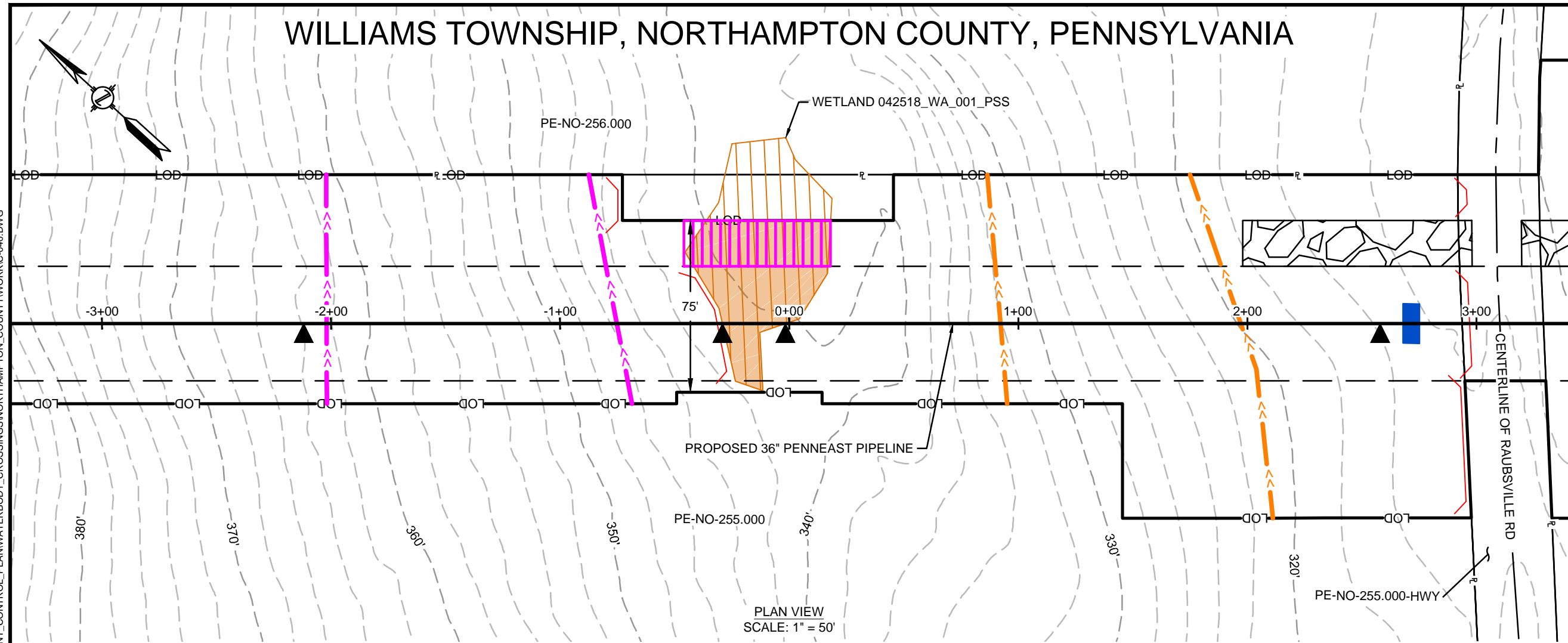
PREPARED BY:

**PENNEAST PIPELINE PROJECT**

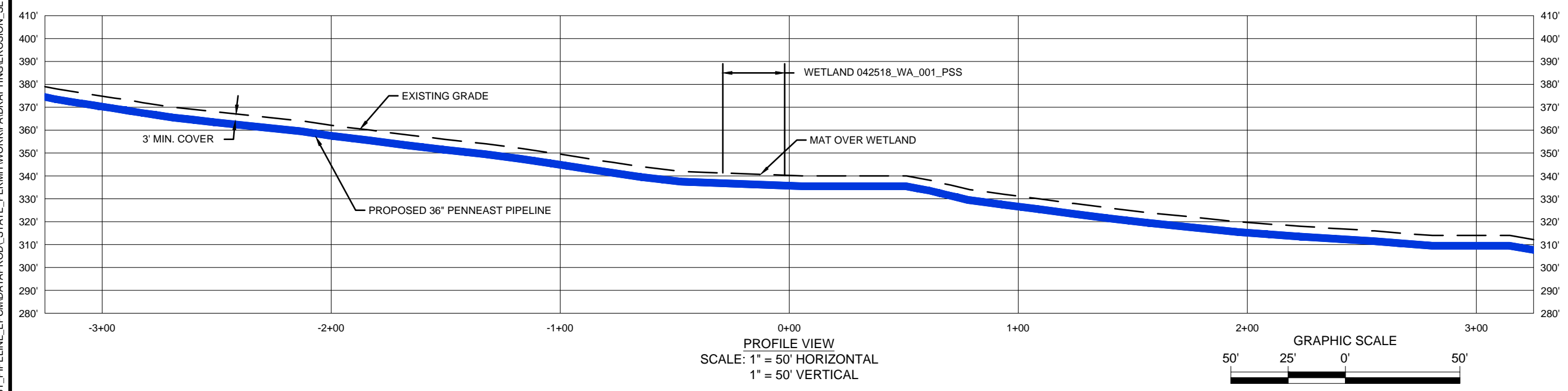
WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 73.7R2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-038	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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

FEATURE ID	042518_WA_001_PSS		RESOURCE TYPE	WETLAND			
	TEMPORARY DISTURBANCE (ACRES)	WATERCOURSE FLOODWAY		WATERCOURSE CHANNEL	WETLAND	WETLAND	
		0.03		0.03			
PERMANENT DISTURBANCE (ACRES)	WATERCOURSE FLOODWAY			WATERCOURSE CHANNEL			
	WATERCOURSE FLOODWAY			WATERCOURSE CHANNEL			
	WATERCOURSE FLOODWAY			WATERCOURSE CHANNEL			
CROSSING METHOD		PRIMARY	CL - OPEN CUT		SECONDARY		
EQUIPMENT CROSSING				TERTIARY			
						MATTED	

11/16/2018 12:34 AM, RODRIGUEZ, ROBERTO J  
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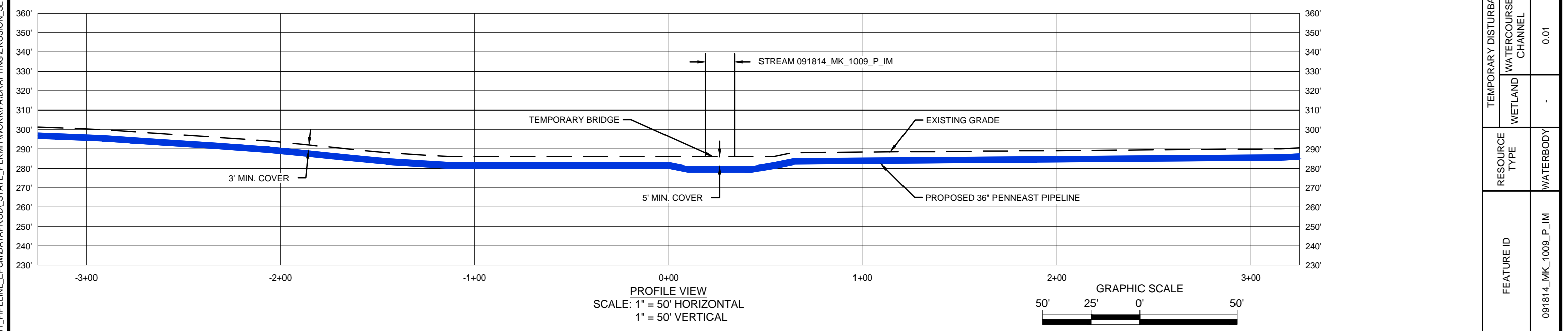
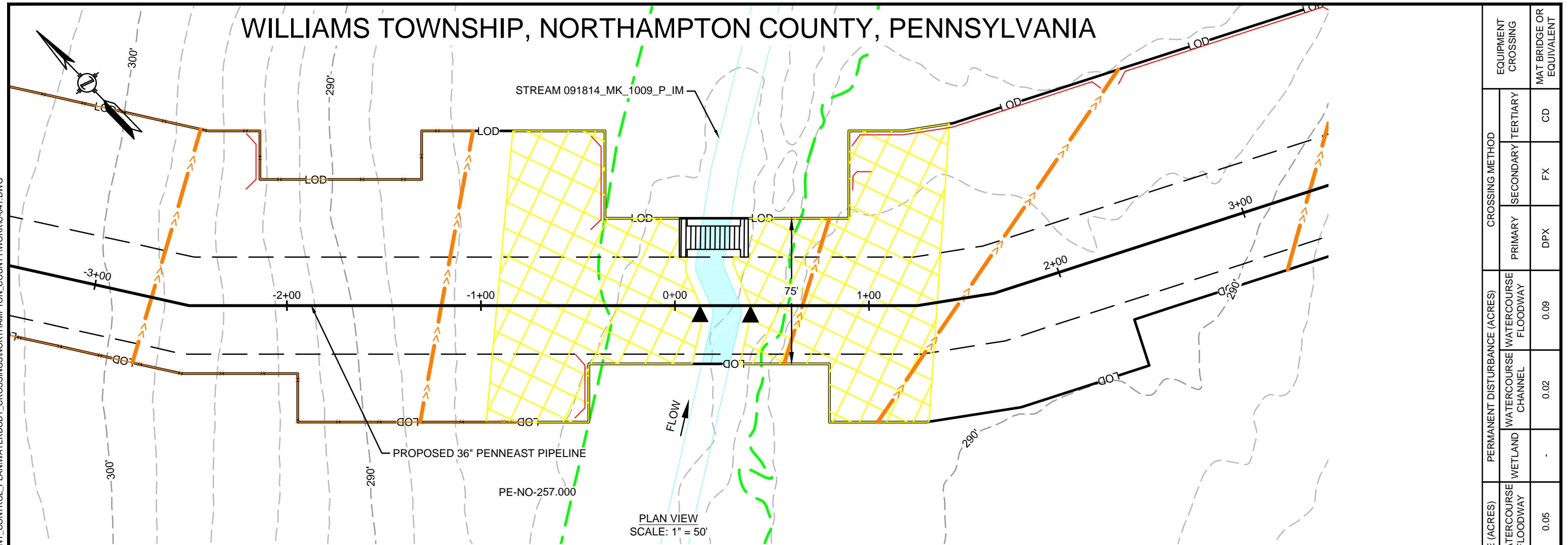
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CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 74.3		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-039	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



FEATURE ID	091814_MK_1009_P_IM		RESOURCE TYPE	WATERBODY	
TEMPORARY DISTURBANCE (ACRES)	WETLAND	-	PERMANENT DISTURBANCE (ACRES)	WETLAND	-
	WATERCOURSE CHANNEL	0.01		WATERCOURSE CHANNEL	0.02
	WATERCOURSE FLOODWAY	0.05		WATERCOURSE FLOODWAY	0.09
CROSSING METHOD	PRIMARY	DPX	EQUIPMENT CROSSING	PRIMARY	DPX
	SECONDARY	FX		SECONDARY	FX
	TERTIARY	CD		TERTIARY	CD
					MAT BRIDGE OR EQUIVALENT

11/15/2018 11:09 PM, MORALES, HECTOR  
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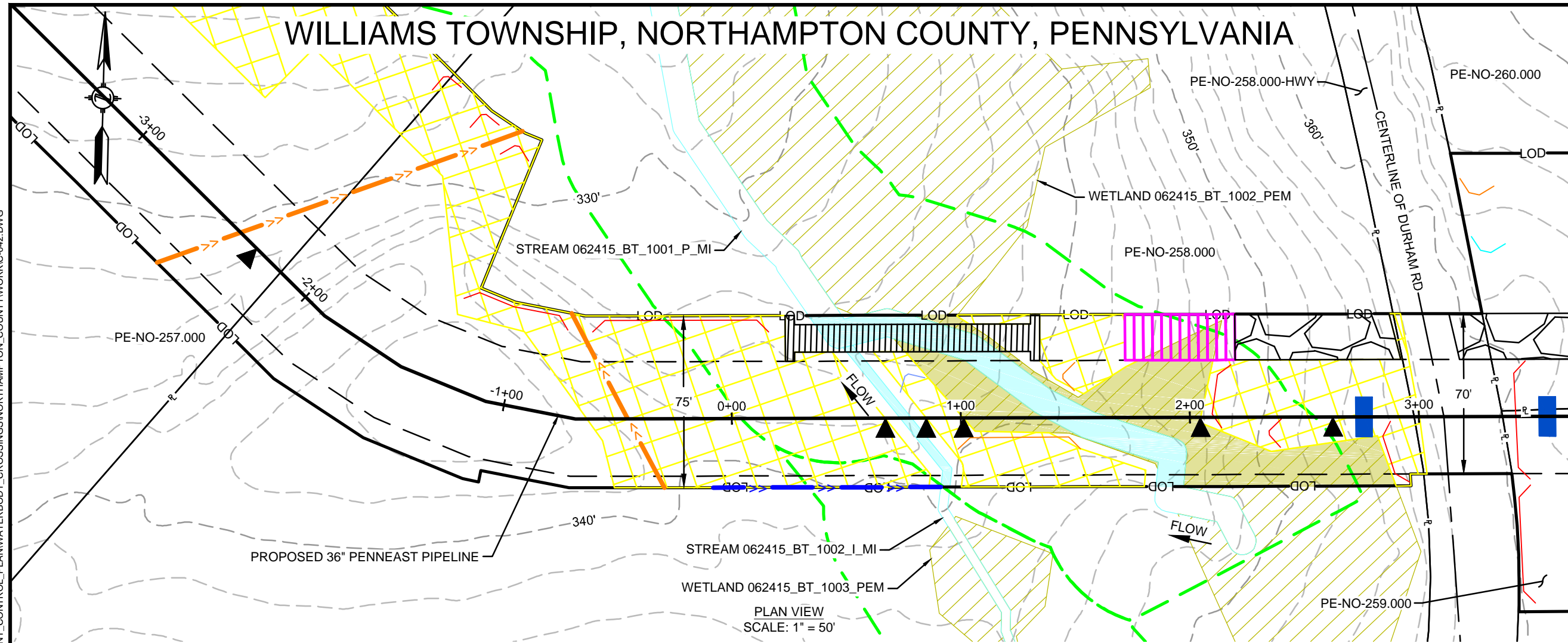
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CHECKED BY	DATE
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ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

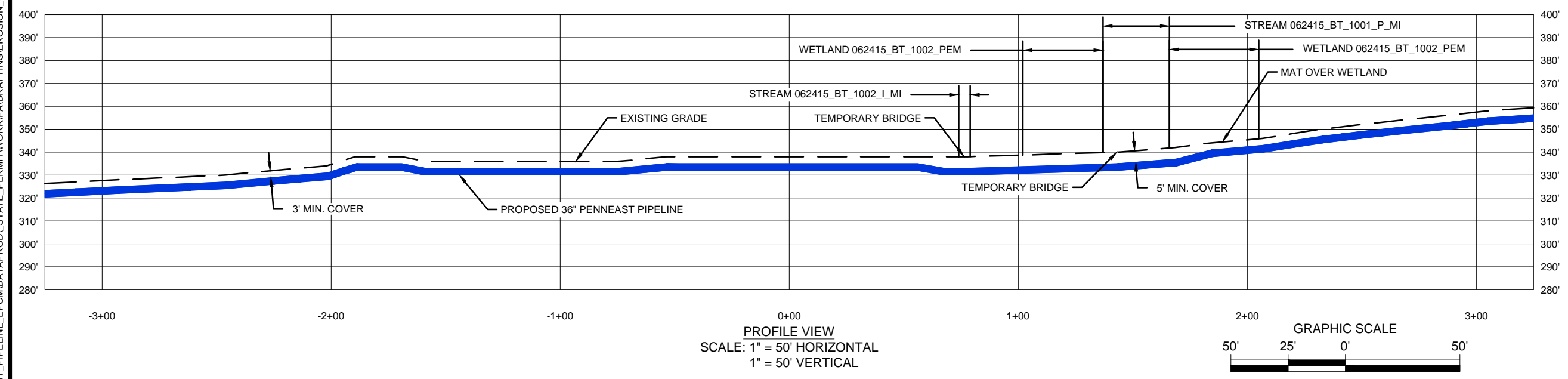
PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 74.6		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-040	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)		PERMANENT DISTURBANCE (ACRES)		CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WETLAND	WATERCOURSE CHANNEL	PRIMARY	SECONDARY	TERTIARY	
062415_BT_1002_PEM	WETLAND	0.02	-	0.09	-	CL - OPEN CUT	-	-	MATTED
062415_BT_1002_I_MI	WATERBODY	-	0.00	-	0.01	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
062415_BT_1001_P_MI	WATERBODY	-	0.02	-	0.03	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/15/2018 11:11 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
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APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

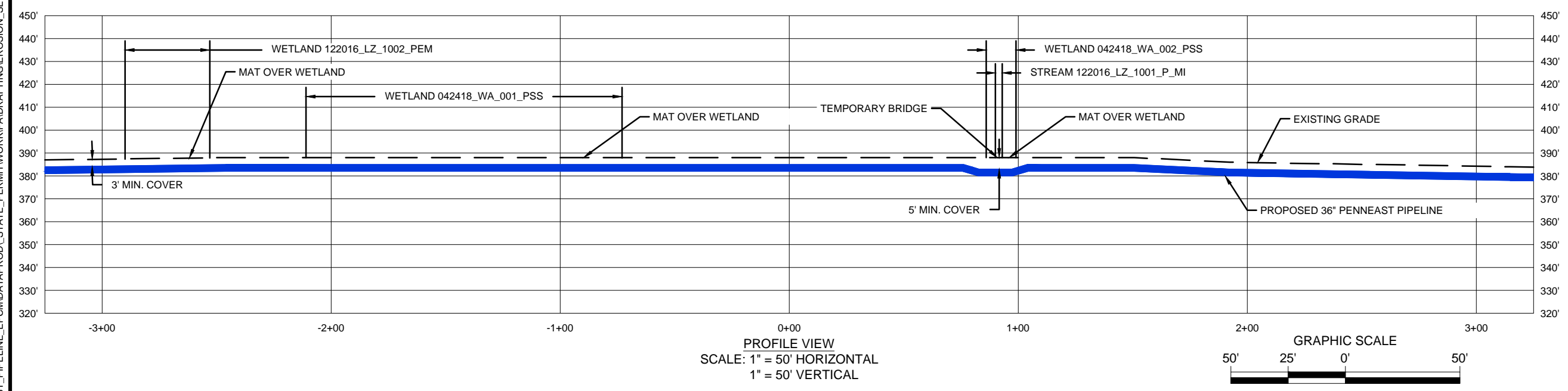
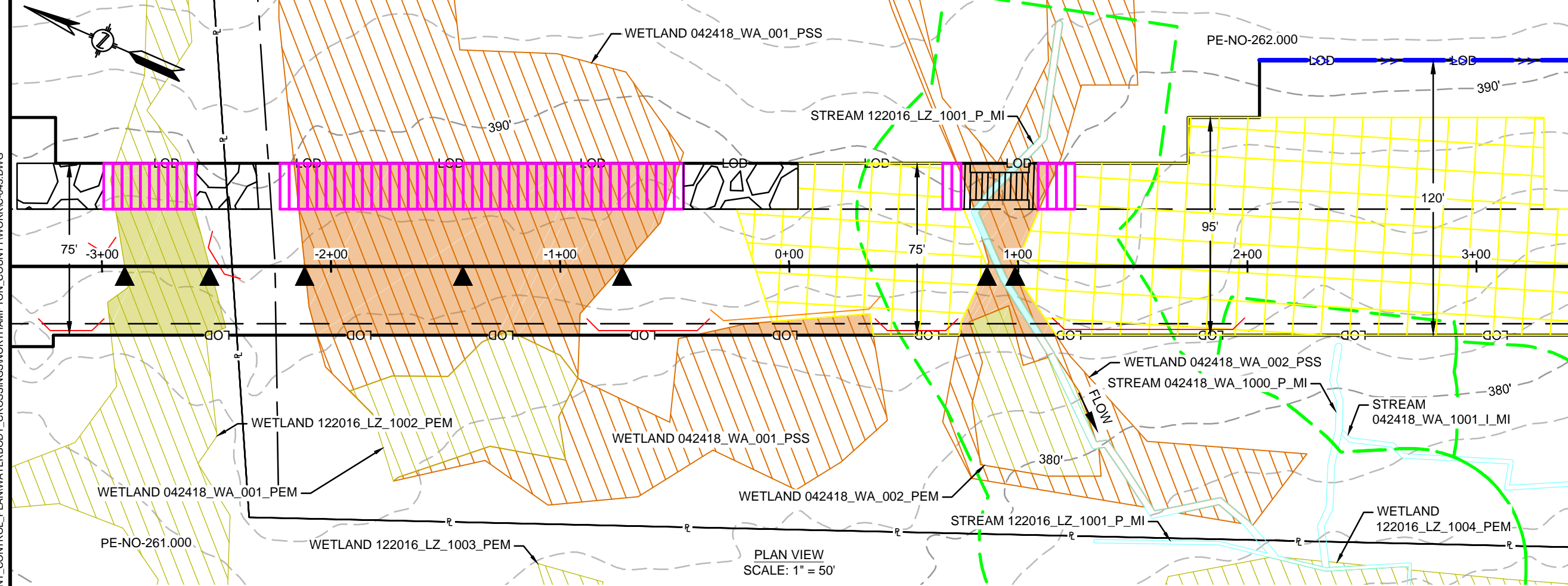
PREPARED FOR:

PREPARED BY:

**PENNEAST PIPELINE PROJECT**  
WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 74.9

SCALE 1"=50'	DRAWING NO. WSS-NT-ML-041	REVISION 0
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# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



11/15/2018 11:12 PM, MORALES, HECTOR  
G:\PENNEAST\353754\_PENNEAST\_PIPELINE\_EPC\MIDATAPROD\STATE\_PERMIT\WORK\PA\DRAWING\EROSION\_SEDIMENT\_CONTROL\_PLAN\WATERBODY\_CROSSINGS\NORTHAMPTON\_COUNTY\WORKC-043.DWG

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 75.1		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-042A	0

11/15/2018 7:33 PM, MORALES, HECTOR  
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FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
042418_WA_001_PSS - 2	WETLAND	0.01	-	-	0.00	-	-	CL - OPEN CUT	-	-	MATTED
042418_WA_001_PEM	WETLAND	0.00	-	-	-	-	-	N/A - WORKSPACE	-	-	MATTED
042418_WA_002_PEM	WETLAND	0.00	-	-	0.00	-	-	N/A - WORKSPACE	-	-	MATTED
042418_WA_002_PSS	WETLAND	0.02	-	-	0.02	-	-	CL - OPEN CUT	-	-	MATTED
122016_LZ_1001_P_MI	WATERBODY	-	0.00	0.07	-	0.00	0.13	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT
042418_WA_1000_P_MI	WATERBODY	-	-	0.03	-	-	0.01	N/A	N/A	N/A	N/A - WORKSPACE
122016_LZ_1002_PEM	WETLAND	0.02	-	-	0.05	-	-	CL - OPEN CUT	-	-	MATTED
042418_WA_001_PSS - 1	WETLAND	0.09	-	-	0.16	-	-	CL - OPEN CUT	-	-	MATTED

REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

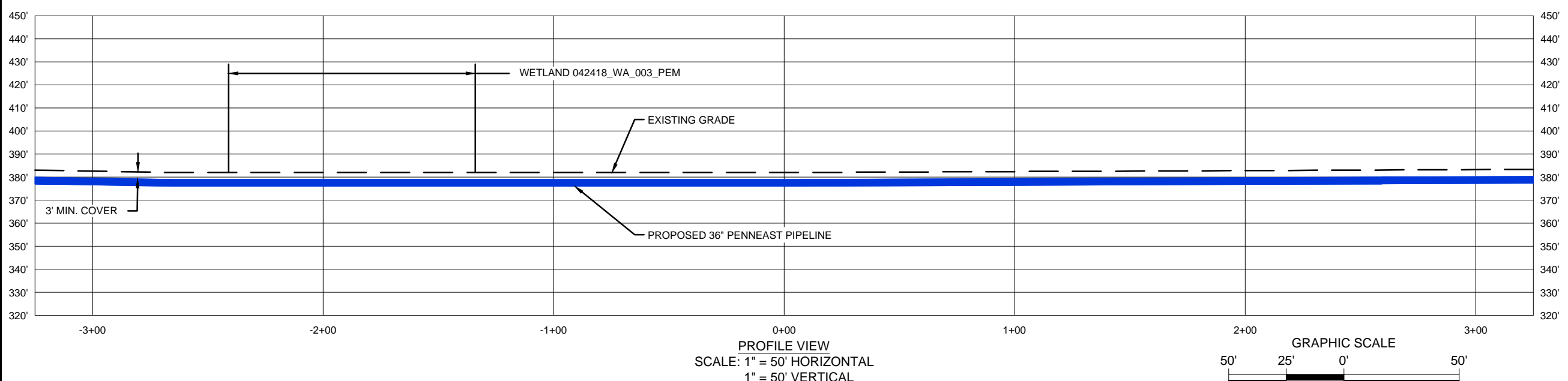
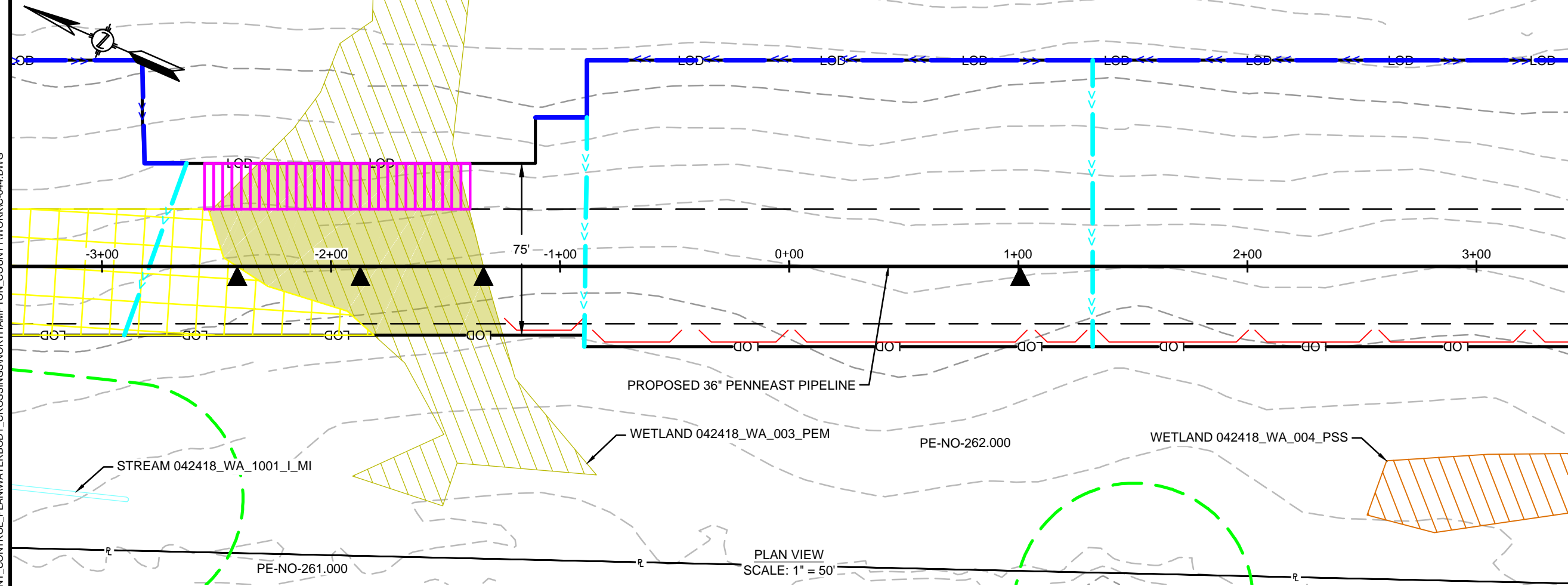
PREPARED FOR:



PREPARED BY:

PENNEAST PIPELINE PROJECT		
WETLAND & STREAM CROSSING PLAN PROPOSED 36" PENNEAST PIPELINE WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA M.P. 75.1		
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-042B	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



EQUIPMENT CROSSING	MATTED			
	CROSSING METHOD	PRIMARY	SECONDARY	TERTIARY
PERMANENT DISTURBANCE (ACRES)	WATERCOURSE CHANNEL	CL - OPEN CUT	-	-
	WATERCOURSE FLOODWAY	-	-	-
TEMPORARY DISTURBANCE (ACRES)	WATERCOURSE CHANNEL	-	-	-
	WATERCOURSE FLOODWAY	-	-	-
RESOURCE TYPE	WETLAND			
FEATURE ID	042418_WA_003_PEM			

11/15/2018 11:14 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

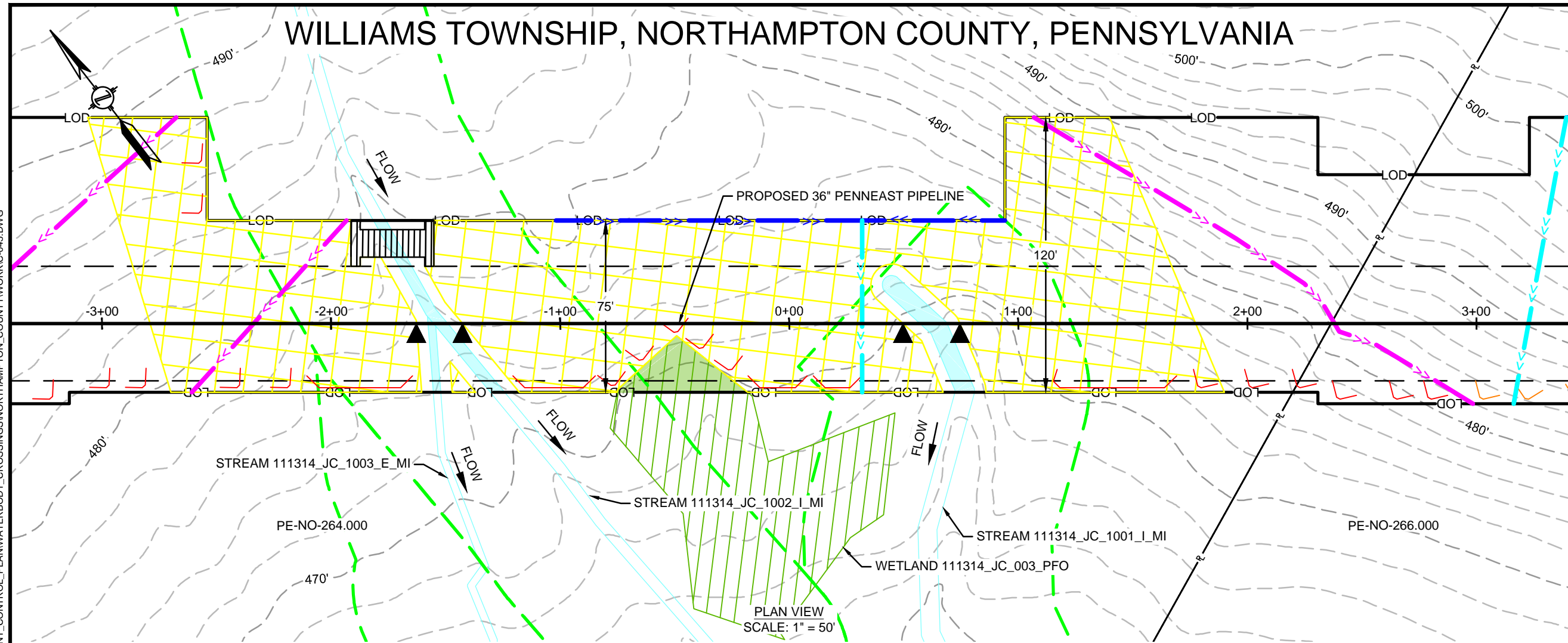
PREPARED FOR:

PREPARED BY:

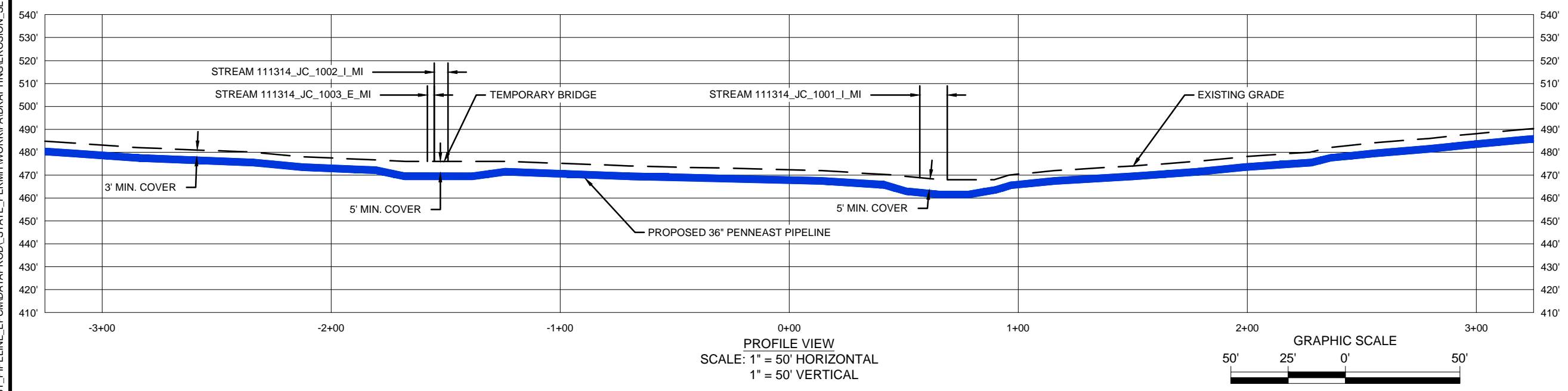
**PENNEAST PIPELINE PROJECT**  
 WETLAND & STREAM CROSSING PLAN  
 PROPOSED 36" PENNEAST PIPELINE  
 WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
 M.P. 75.2

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-043	0

# WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	WETLAND	WATERCOURSE CHANNEL	WATERCOURSE FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
111314_JC_003_PFO	WETLAND	0.01	-	-	0.01	-	-	N/A - WORKSPACE	-	-	MATTED
111314_JC_1001_I_MI	WATERBODY	-	0.00	0.04	-	0.01	0.11	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
111314_JC_1002_I_MI	WATERBODY	-	0.00	0.07	-	0.01	0.14	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT
111314_JC_1003_E_MI	WATERBODY	-	0.00	0.00	-	0.00	0.00	DPX	FX	DX-NF	MAT BRIDGE OR EQUIVALENT

11/15/2018 11:17 PM, MORALES, HECTOR  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

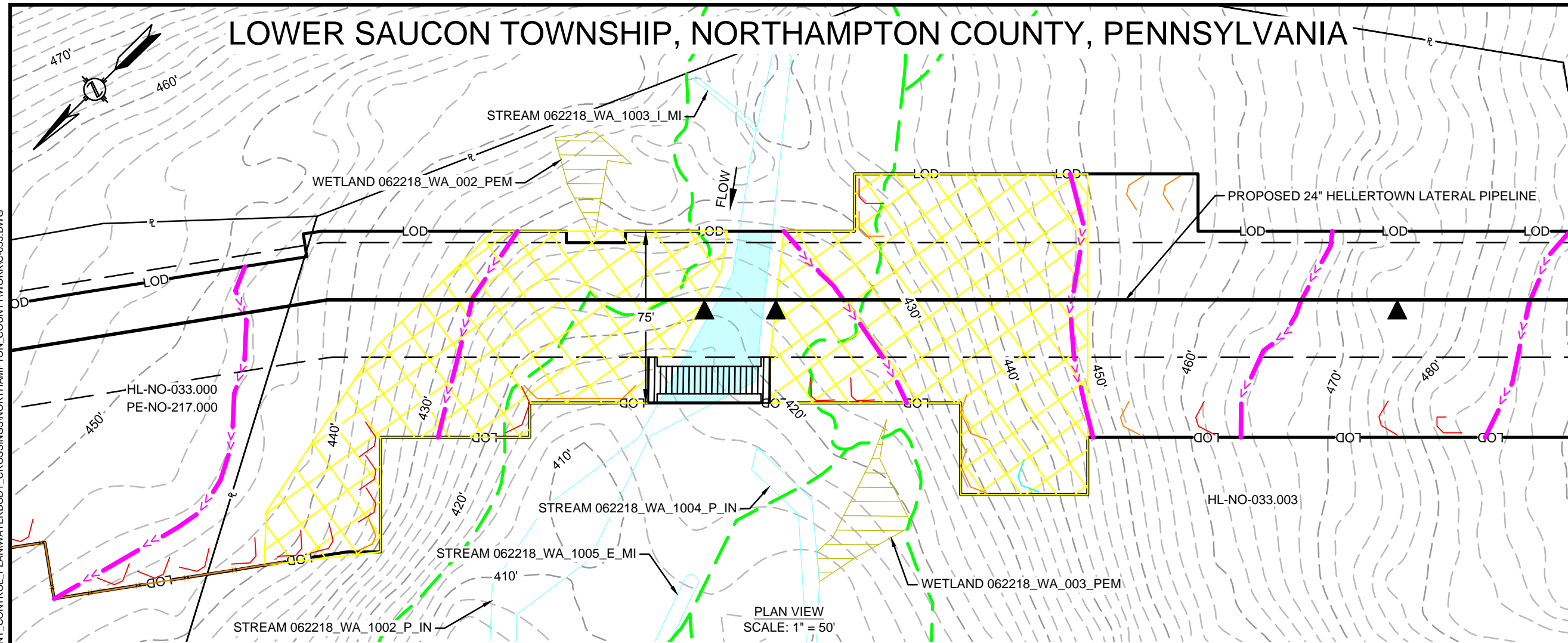
**PENNEAST PIPELINE PROJECT**

WETLAND & STREAM CROSSING PLAN  
PROPOSED 36" PENNEAST PIPELINE  
WILLIAMS TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 75.7

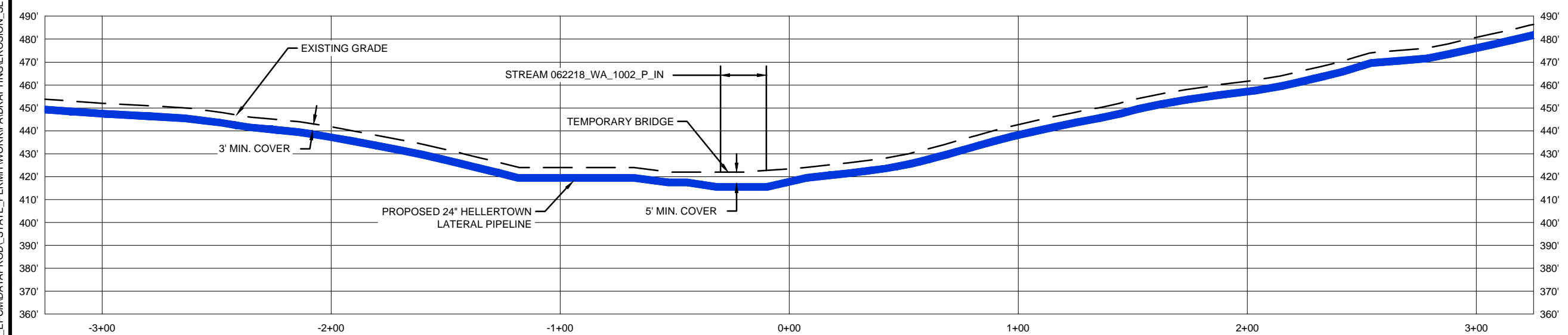
SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-ML-044	0



# LOWER SAUCON TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA



PLAN VIEW  
SCALE: 1" = 50'



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

FEATURE ID	RESOURCE TYPE	TEMPORARY DISTURBANCE (ACRES)			PERMANENT DISTURBANCE (ACRES)			CROSSING METHOD			EQUIPMENT CROSSING
		WETLAND	WATERCOURSE CHANNEL	FLOODWAY	WETLAND	WATERCOURSE CHANNEL	FLOODWAY	PRIMARY	SECONDARY	TERTIARY	
062218_WA_1002_P_IN	WATERBODY	-	0.02	0.06	-	0.02	0.09	DPX	FX	CD	MAT BRIDGE OR EQUIVALENT

11/16/2018 12:25 AM, RODRIGUEZ, ROBERTO J  
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REVISIONS					
NO.	DATE	DESCRIPTION	DRAWN	CHECK	APPROVAL
0	10/2018	ISSUED FOR PADEP 105 PERMIT	HM	JB/KEK	MJD

APPROVALS	
DRAWN BY	DATE
HM (MM)	10/2018
CHECKED BY	DATE
JB/KEK (MM)	10/2018
ENG. APPROVAL	DATE
MJD (MM)	10/2018
P.M. APPROVAL	DATE

PREPARED FOR:

PREPARED BY:

**PENNEAST PIPELINE PROJECT**

WETLAND & STREAM CROSSING PLAN  
PROPOSED 24" HELLERTOWN LATERAL PIPELINE  
LOWER SAUCON TOWNSHIP, NORTHAMPTON COUNTY, PENNSYLVANIA  
M.P. 0.3

SCALE	DRAWING NO.	REVISION
1"=50'	WSS-NT-LA-001	0