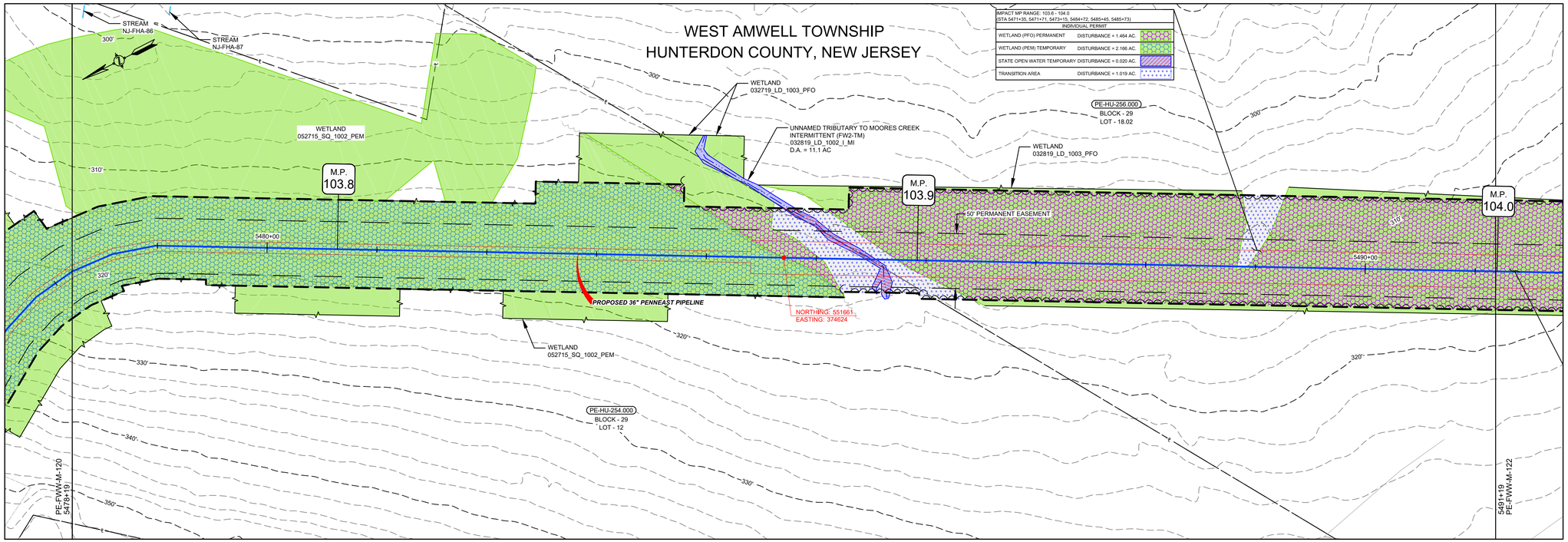

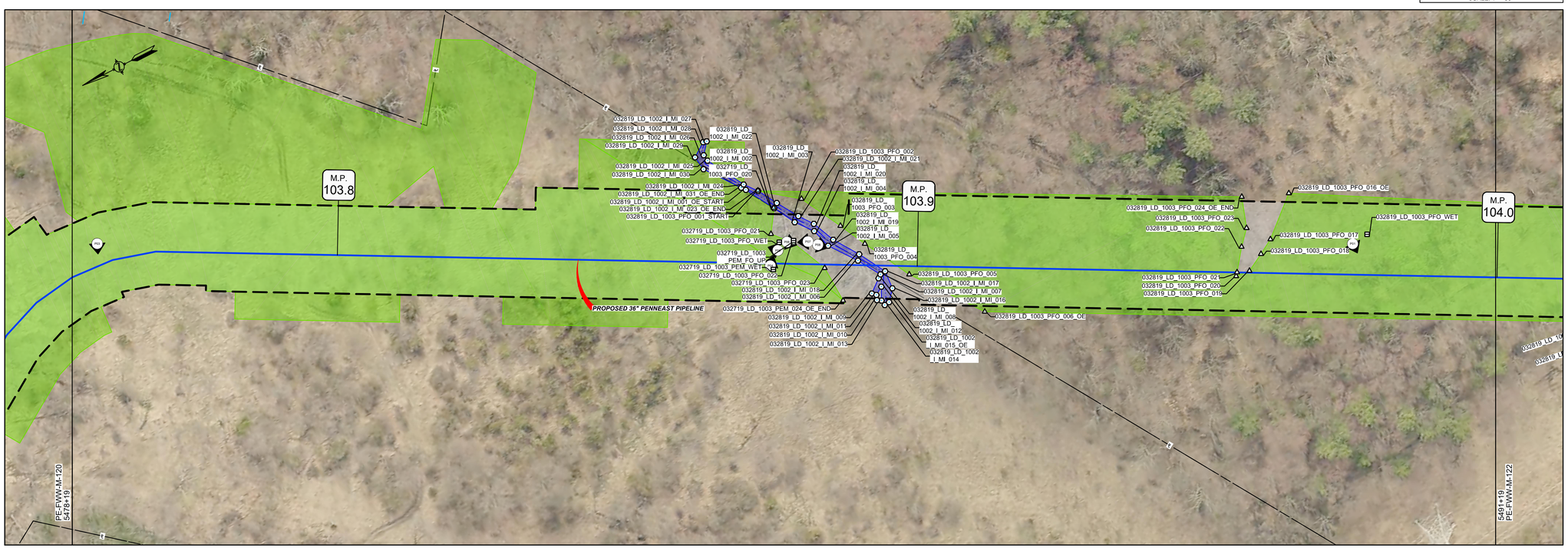

LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
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- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
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- WATERBODY (SURVEYED)
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- TRANSITION AREA
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- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- LB-HU-A001.000 BLOCK - 1 LOT - 10.00 — PARCEL ID WITH BLOCK AND LOT NUMBER
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- EXISTING TREE
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- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

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REFERENCE DRAWINGS

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REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL

DATE 7/2019

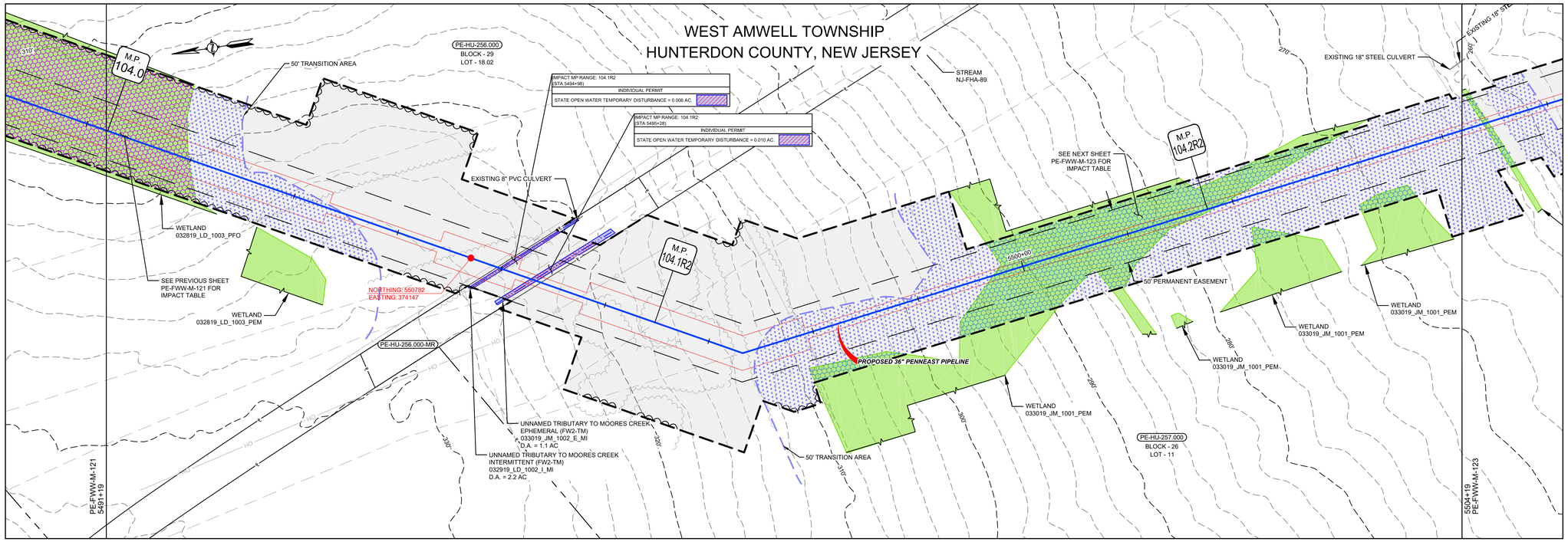
PREPARED FOR PennEast PIPELINE

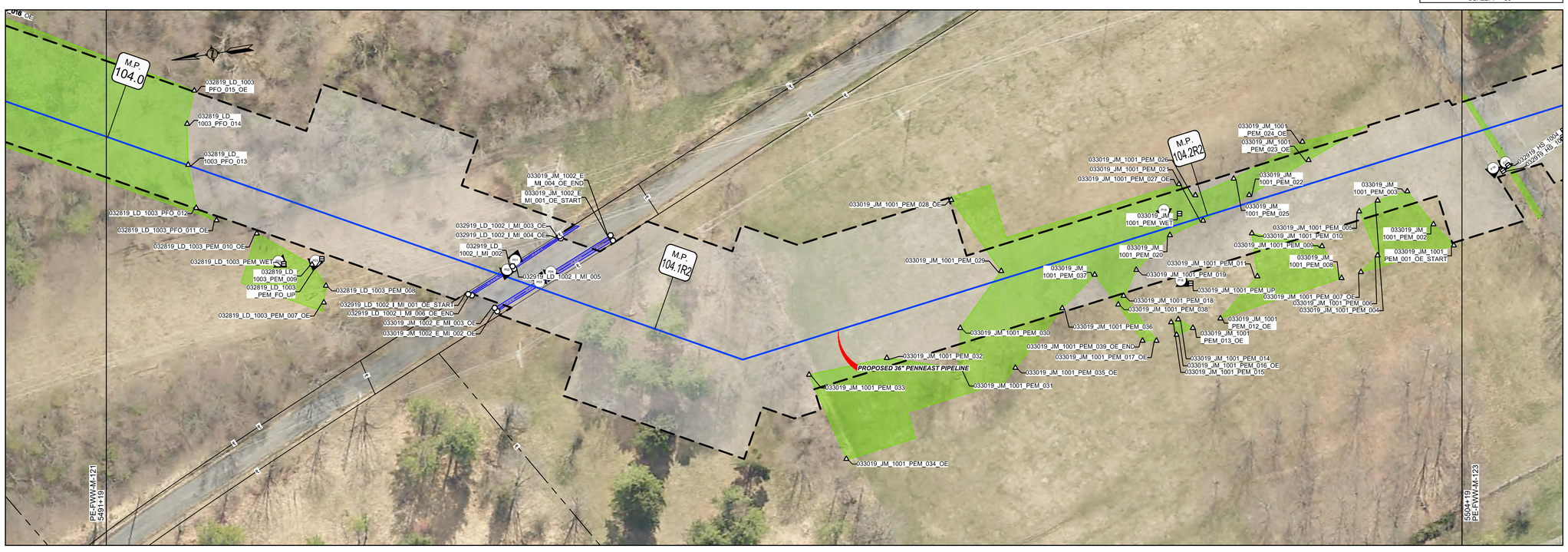
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 103.8 - MP 104.0

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-121	0





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KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE

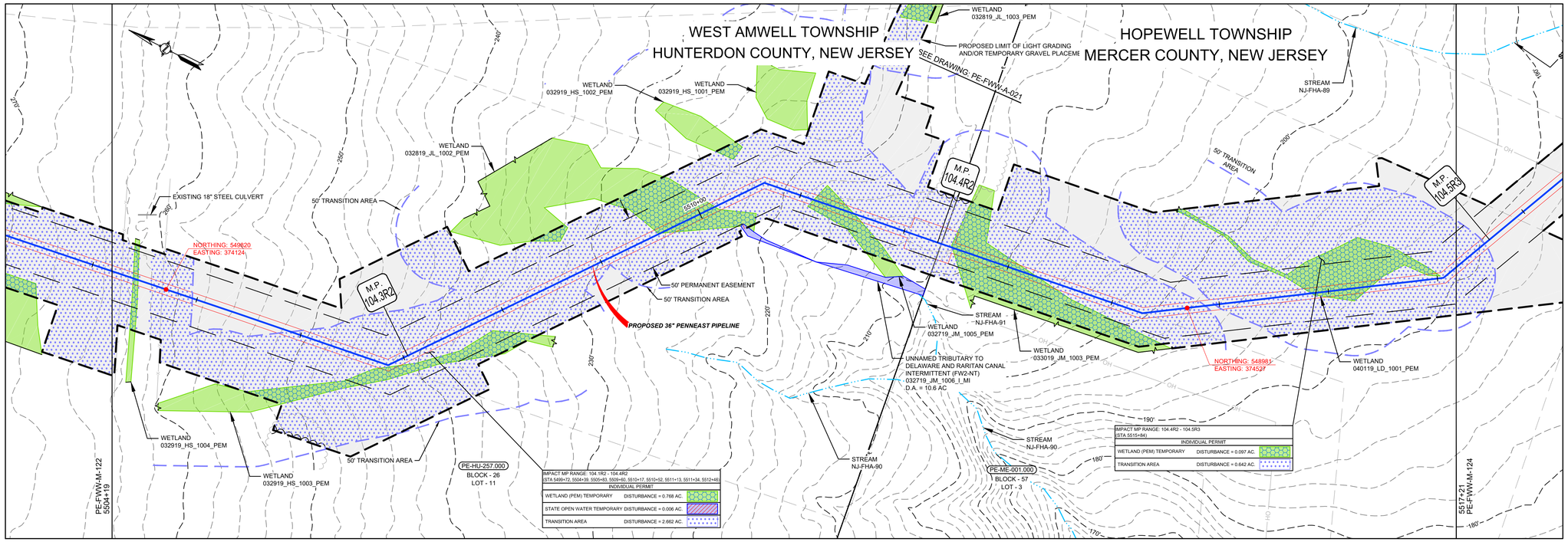
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

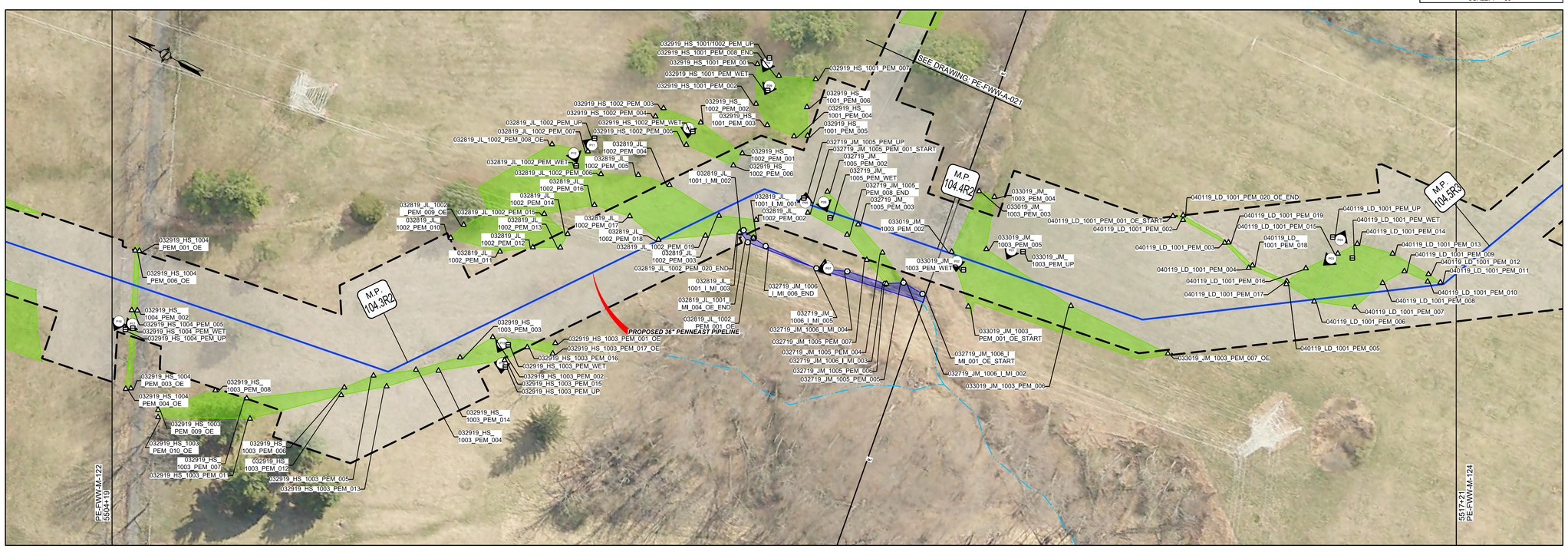
PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 104.0 - MP 104.2R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-122	0



IMPACT MP RANGE: 104.1R2 - 104.4R2 (STA 5499+72, 5504+39, 5505+83, 5509+60, 5510+17, 5510+52, 5511+13, 5511+34, 5512+46) INDIVIDUAL PERMIT		
WETLAND (PEM) TEMPORARY	DISTURBANCE = 0.768 AC.	
STATE OPEN WATER TEMPORARY	DISTURBANCE = 0.006 AC.	
TRANSITION AREA	DISTURBANCE = 2.662 AC.	

IMPACT MP RANGE: 104.4R2 - 104.5R3 (STA 5515+84) INDIVIDUAL PERMIT		
WETLAND (PEM) TEMPORARY	DISTURBANCE = 0.097 AC.	
TRANSITION AREA	DISTURBANCE = 0.642 AC.	



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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-077	* ACCESS ROAD DETAIL

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

	DATE
DRAWN BY: RJP	7/2019
CHECKED BY: KEK	7/2019
ENG. APPROVAL: MJD	7/2019
P.M. APPROVAL: MW	7/2019

CLIENT APPROVAL — DATE

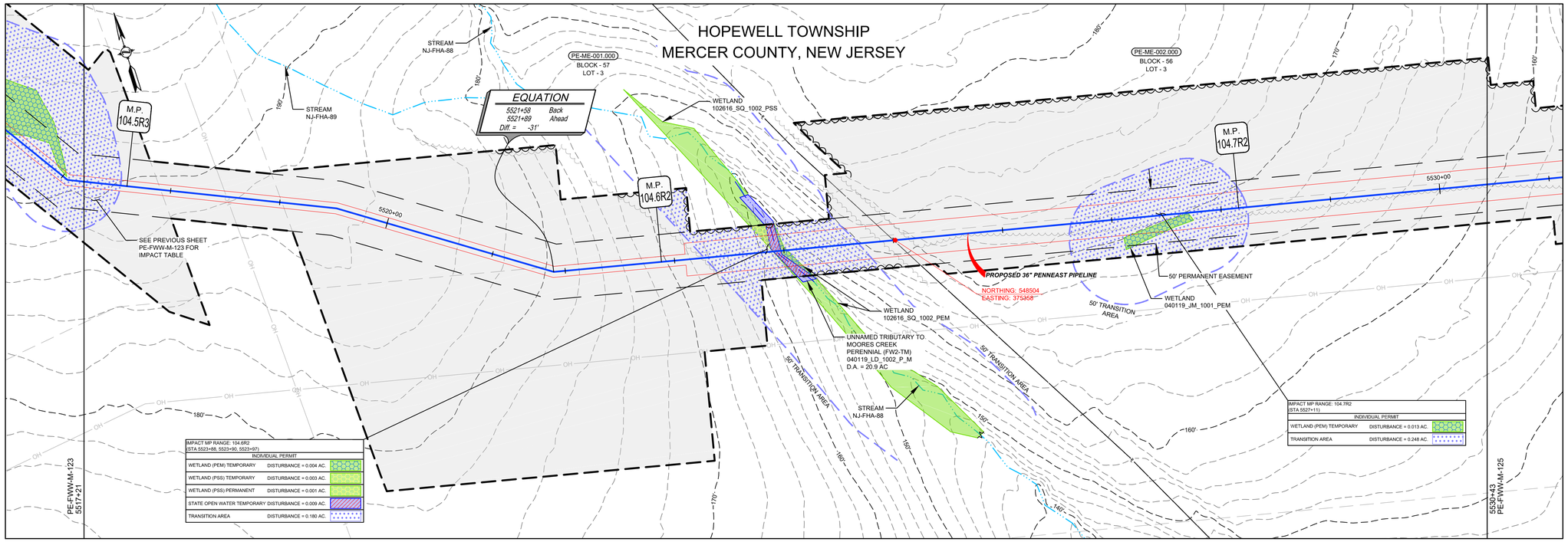
PREPARED FOR: PennEast Pipeline

PREPARED BY: MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

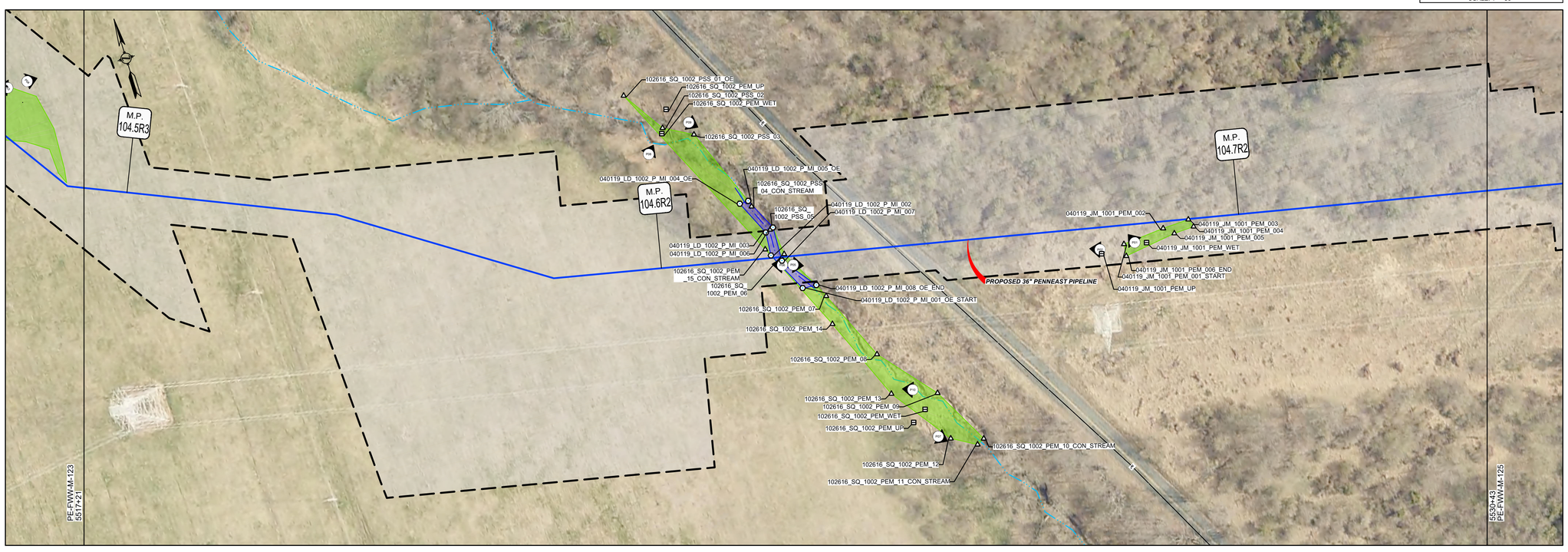
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 104.2R2 - MP 104.5R3

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-123	0



GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



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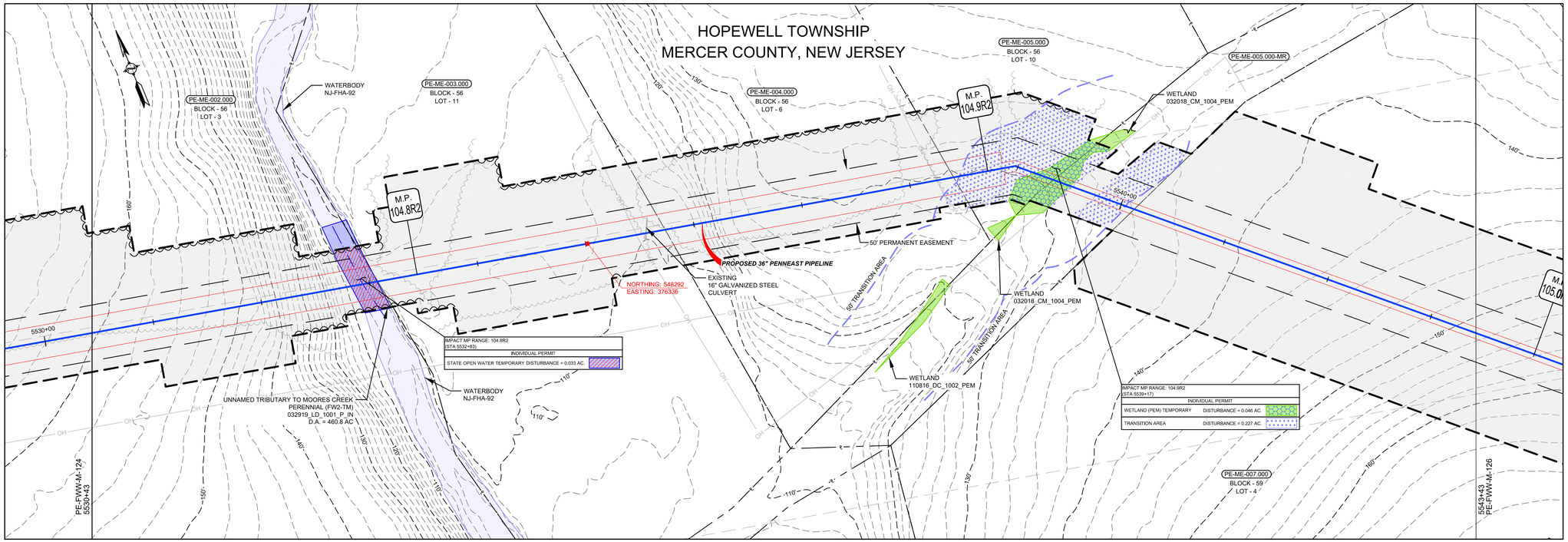
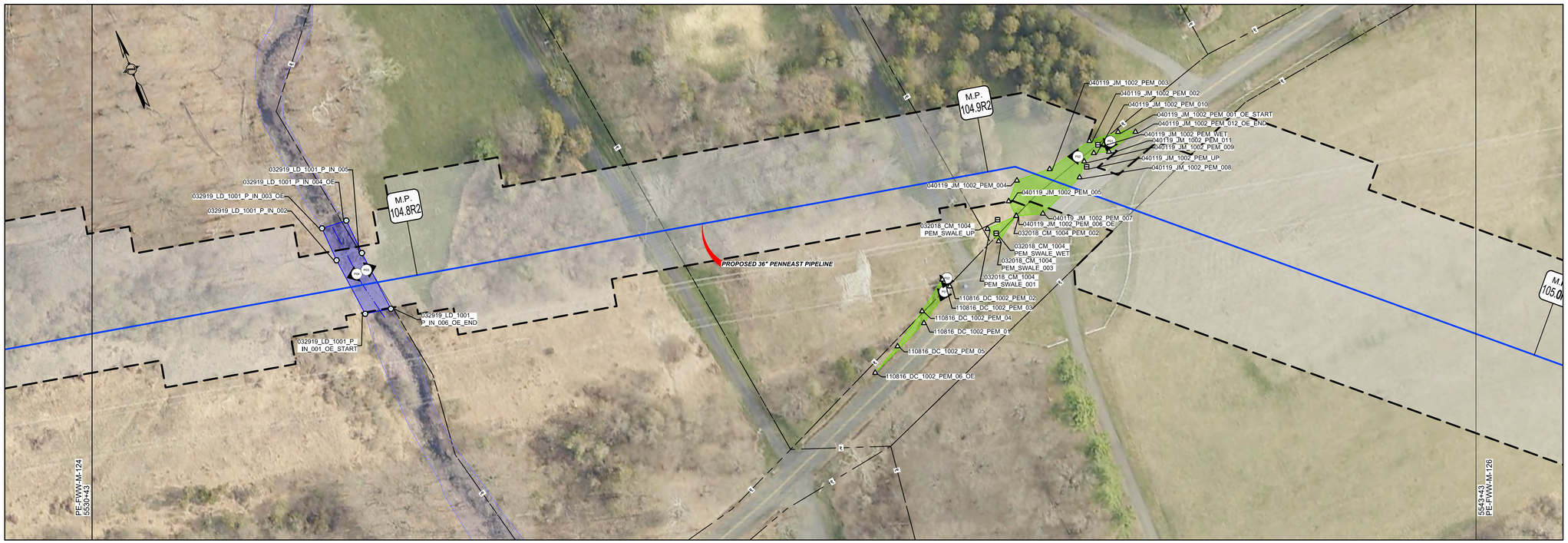
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 104.5R3 - MP 104.7R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-124	0





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REFERENCE DRAWINGS

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REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL

DATE

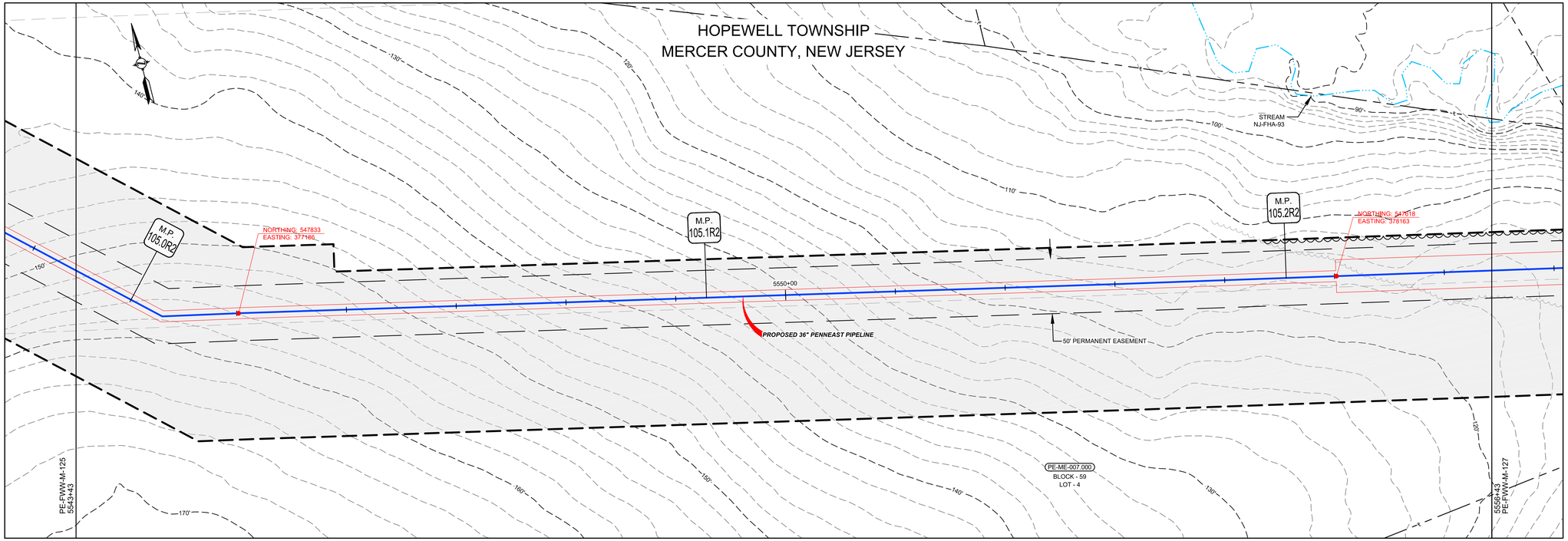
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

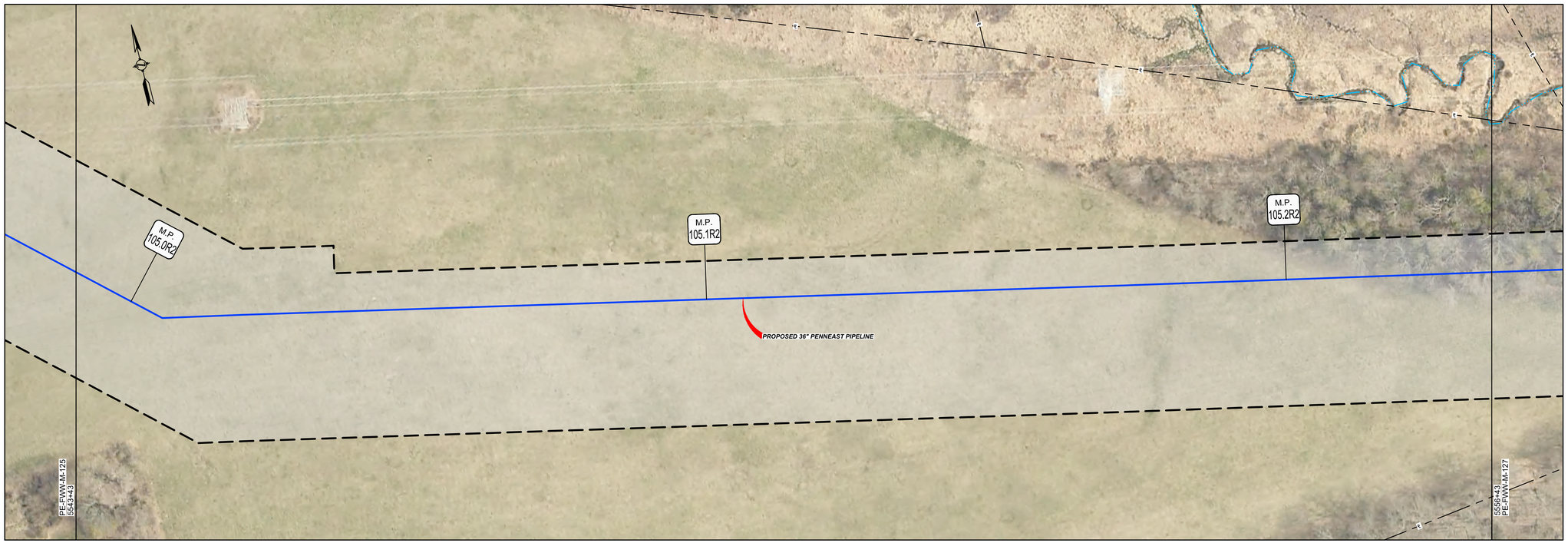
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 104.7R2 - MP 105.0R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-125	0



GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND LOD IMPACT
- PSS WETLAND LOD IMPACT
- PFO WETLAND LOD IMPACT
- MODAG WETLAND LOD IMPACT
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY LOD IMPACT
- TRANSITION AREA IMPACT
- TRANSITION AREA
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- LB-HU-A001.000 — BLOCK - 1, LOT - 10.00 — PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CPP — CORRUGATED PLASTIC PIPE
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- HDPE — HIGH DENSITY POLYETHYLENE PIPE
- PVC — POLYVINYL CHLORIDE PIPE
- RCP — REINFORCED CONCRETE PIPE
- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260'+ — EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- OH — EXISTING OVERHEAD LINE
- EXISTING TREE
- X — EXISTING FENCE
- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES DEFINING PERMANENT AND TEMPORARY IMPACTS:

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

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MW	7/2019

CLIENT APPROVAL

DATE
7/2019

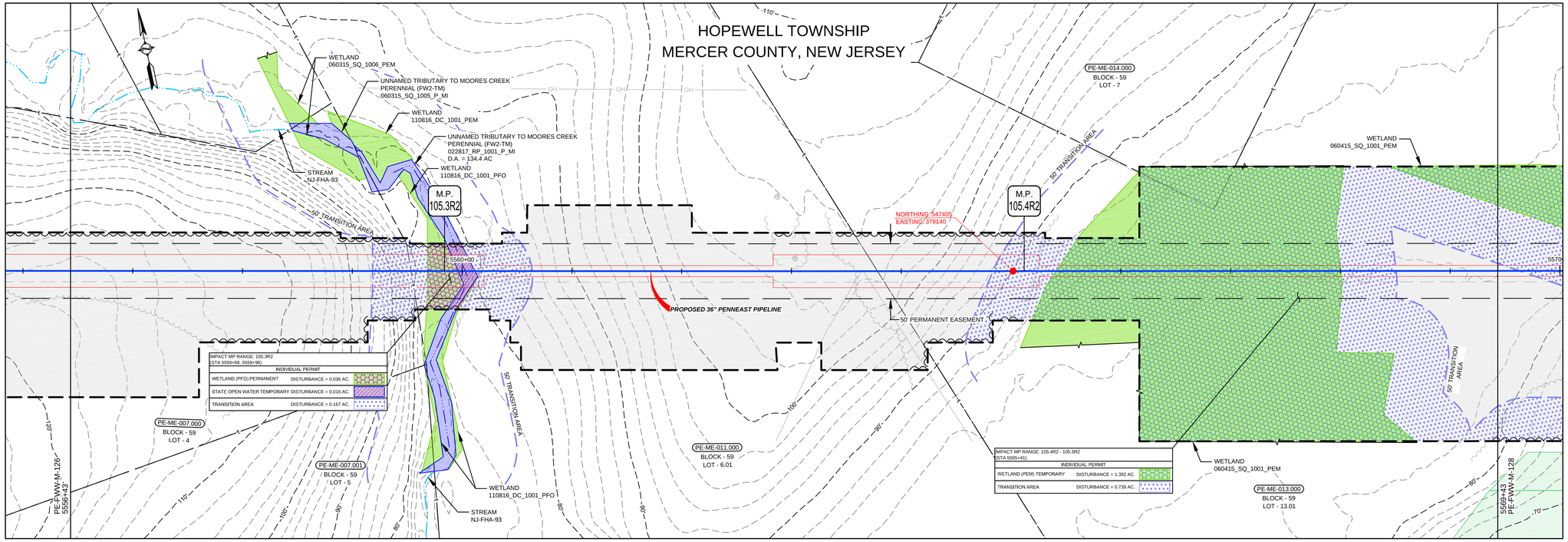
PREPARED FOR
PennEast PIPELINE

PREPARED BY
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 105.0R2 - MP 105.2R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-126	0



GRAPHIC SCALE
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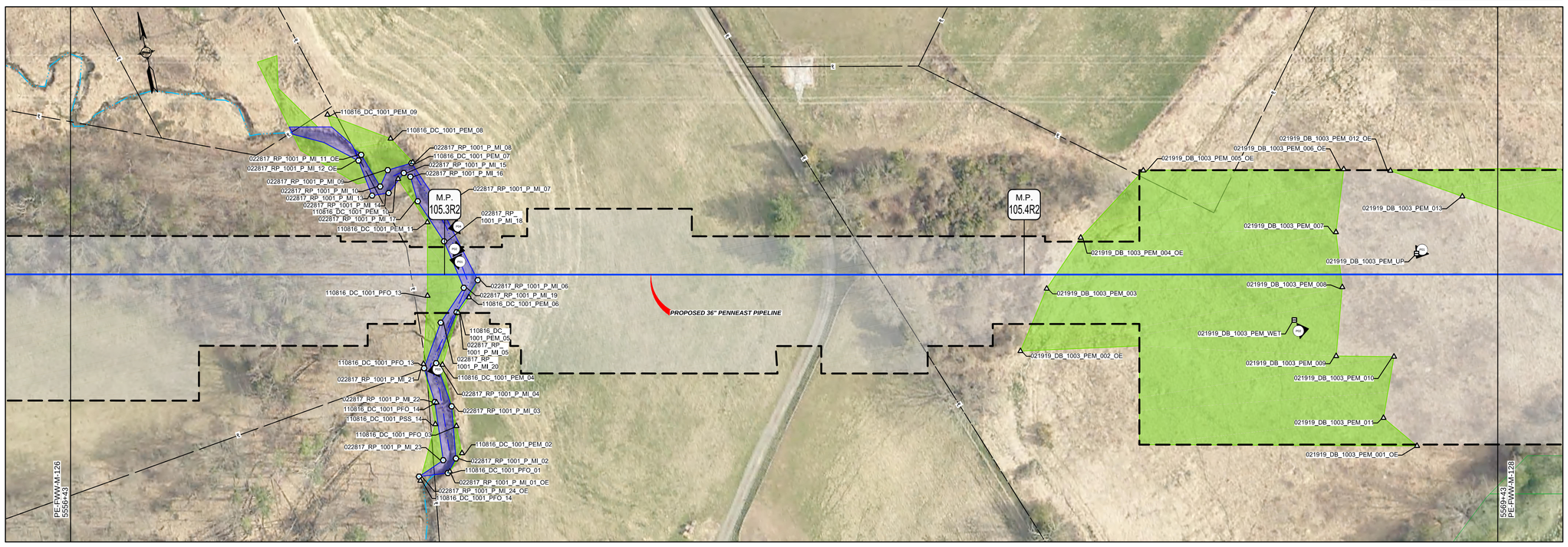

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CLIENT APPROVAL — DATE 7/2019

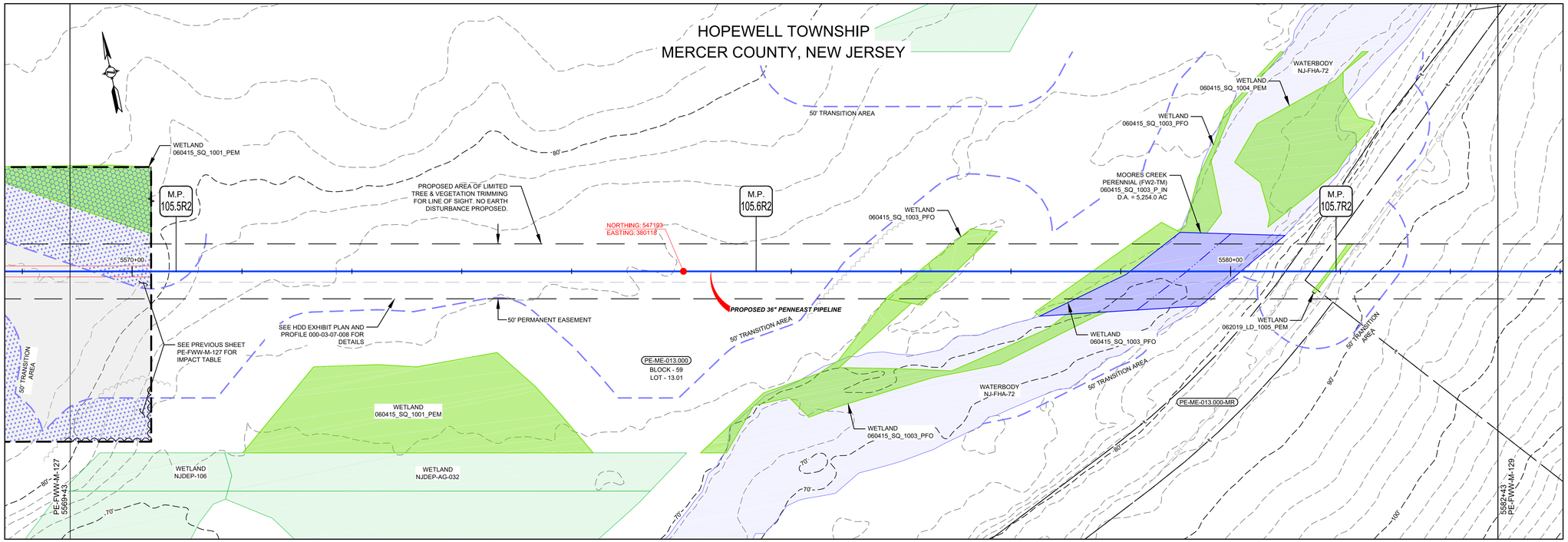
PREPARED FOR PennEast PIPELINE

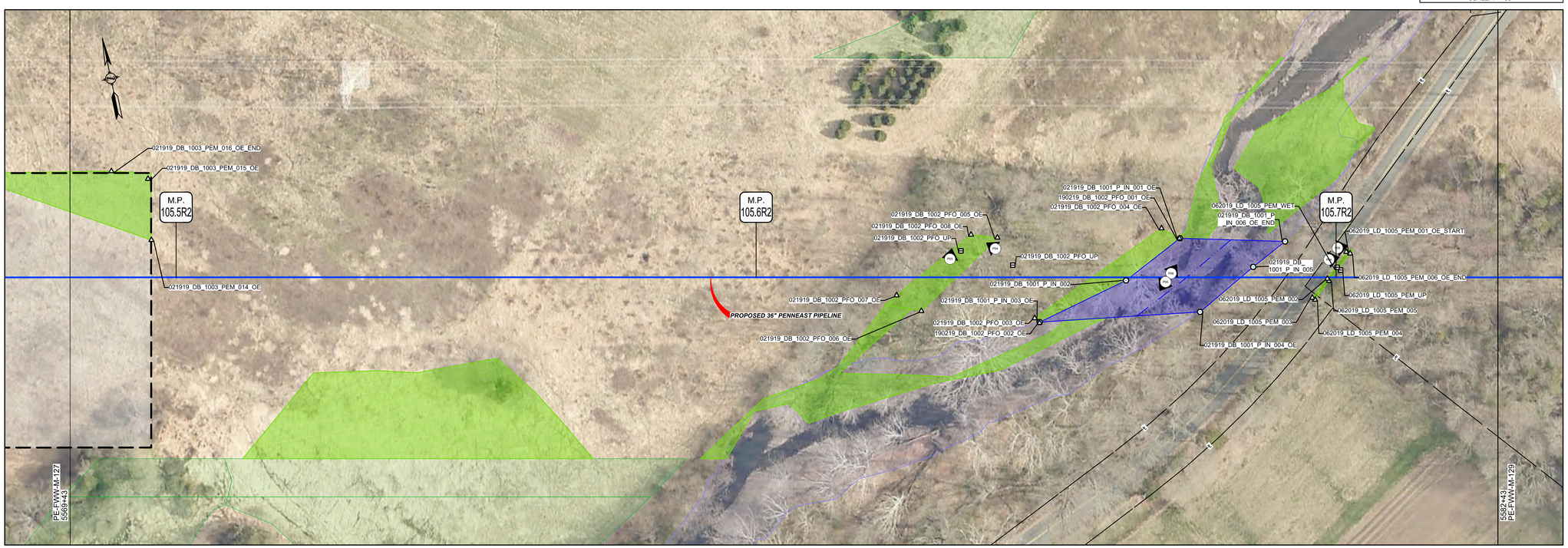
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 105.2R2 - MP 105.5R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-127	0





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DWG. NO.	TITLE
000-03-07-008	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

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CLIENT APPROVAL — DATE 7/2019

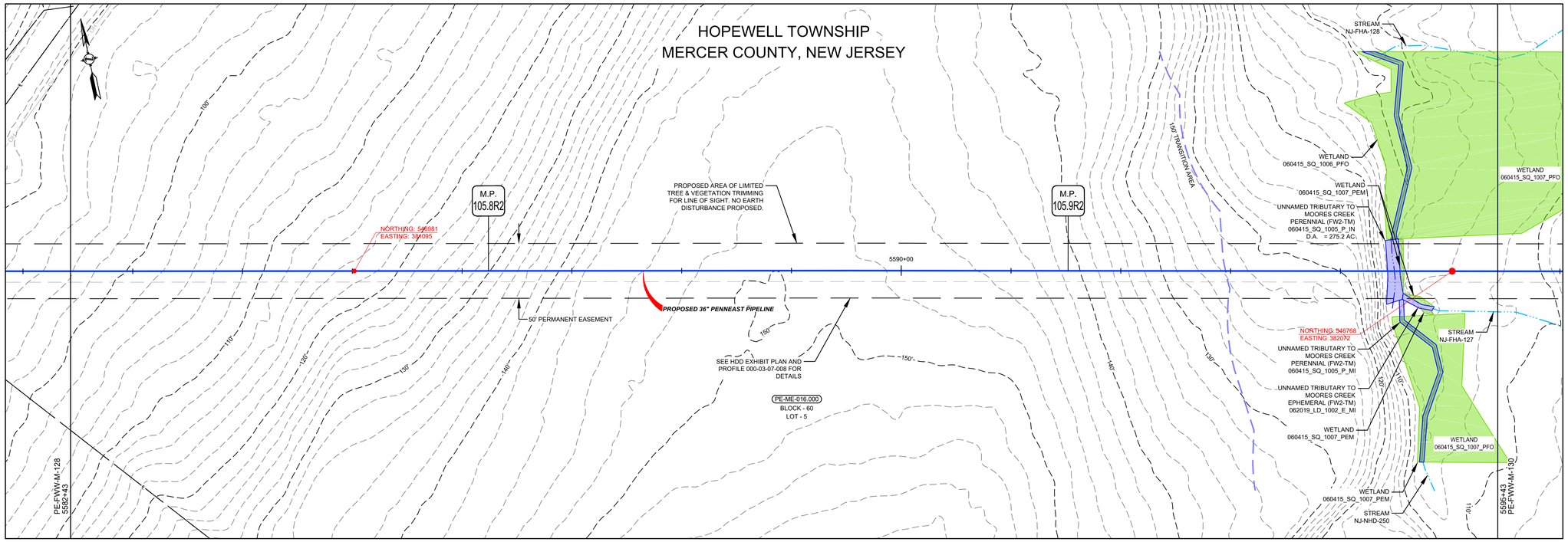
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 105.5R2 - MP 105.7R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-128	0



LEGEND

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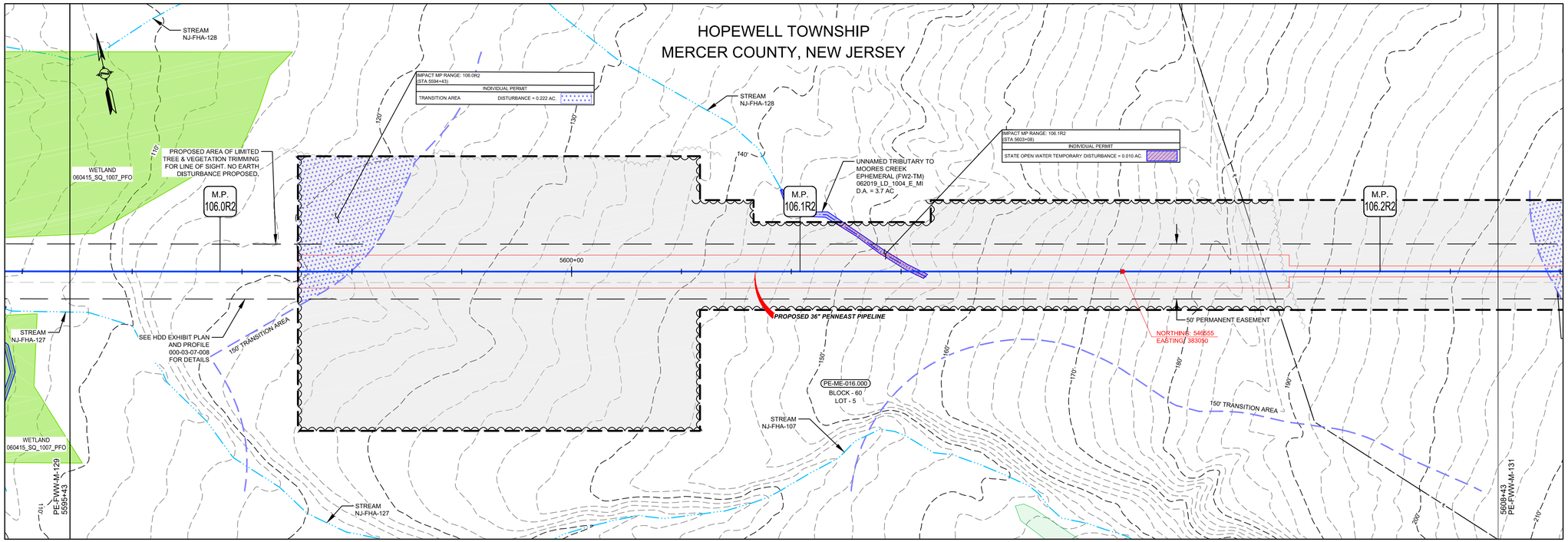
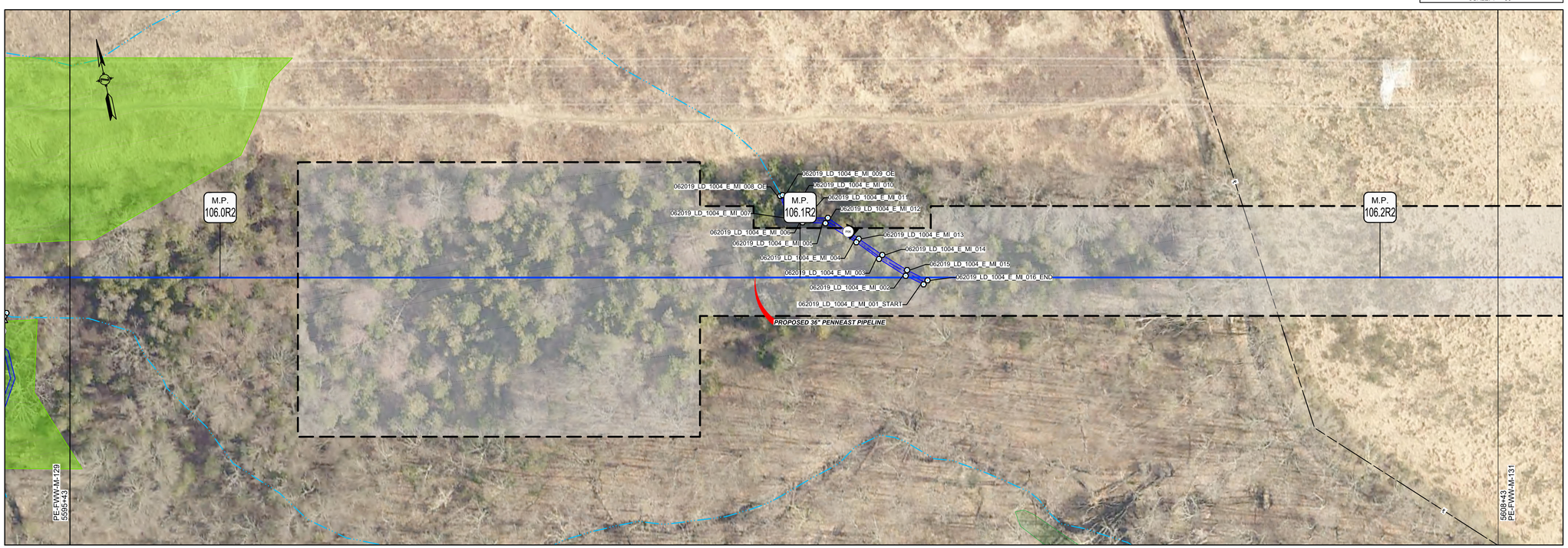
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 105.7R2 - MP 106.0R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-129	0





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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-07-008	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL — DATE: 7/2019

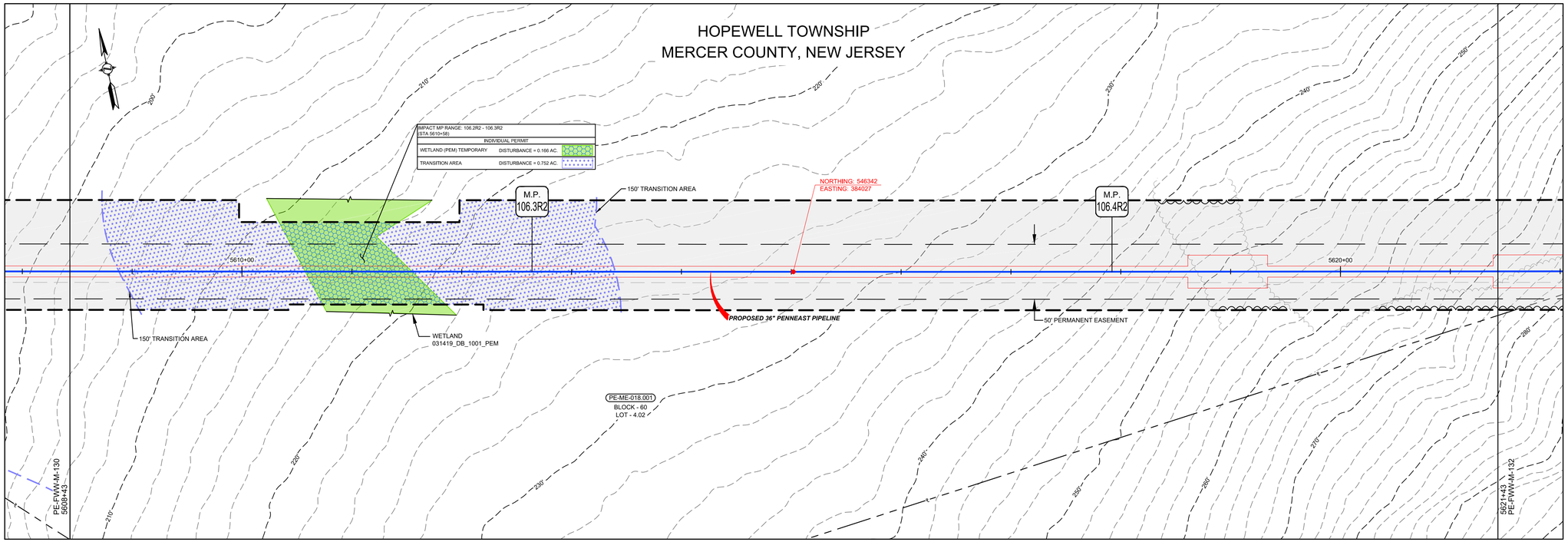
PREPARED FOR: PennEast Pipeline

PREPARED BY: MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

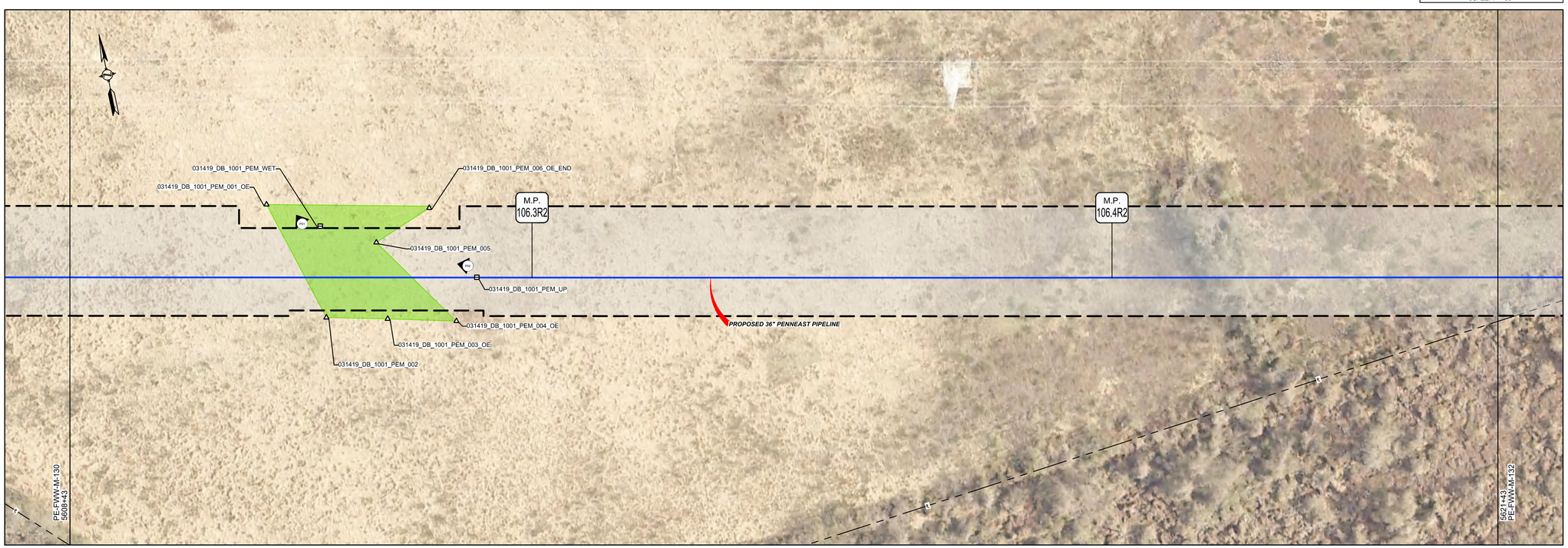
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 106.0R2 - MP 106.2R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-130	0



GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND LOD IMPACT
- PSS WETLAND LOD IMPACT
- PFO WETLAND LOD IMPACT
- MODAG WETLAND LOD IMPACT
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY LOD IMPACT
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- TRANSITION AREA
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- LB-HU-A001.000 — BLOCK - 1, LOT - 10.00 — PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CPP — CORRUGATED PLASTIC PIPE
- CMP — CORRUGATED METAL PIPE
- HDPE — HIGH DENSITY POLYETHYLENE PIPE
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- EXISTING TREE
- X — EXISTING FENCE
- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
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CLIENT APPROVAL

DATE 7/2019

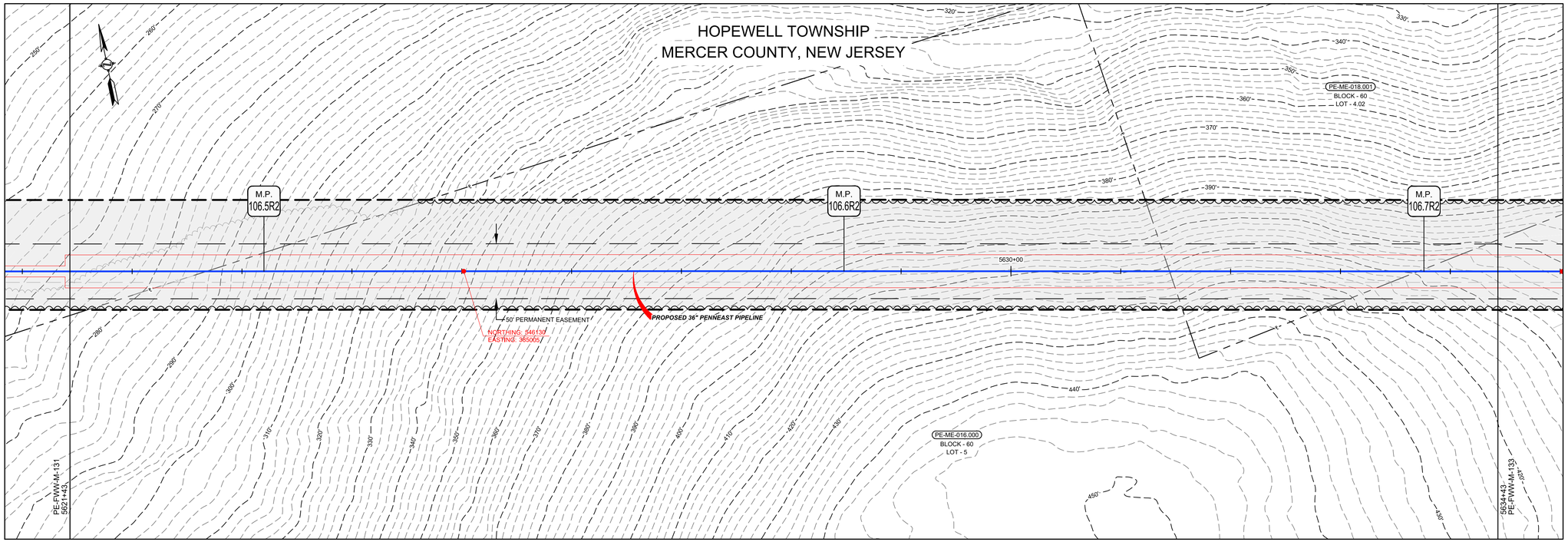
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP106.2R2 - MP 106.5R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-131	0



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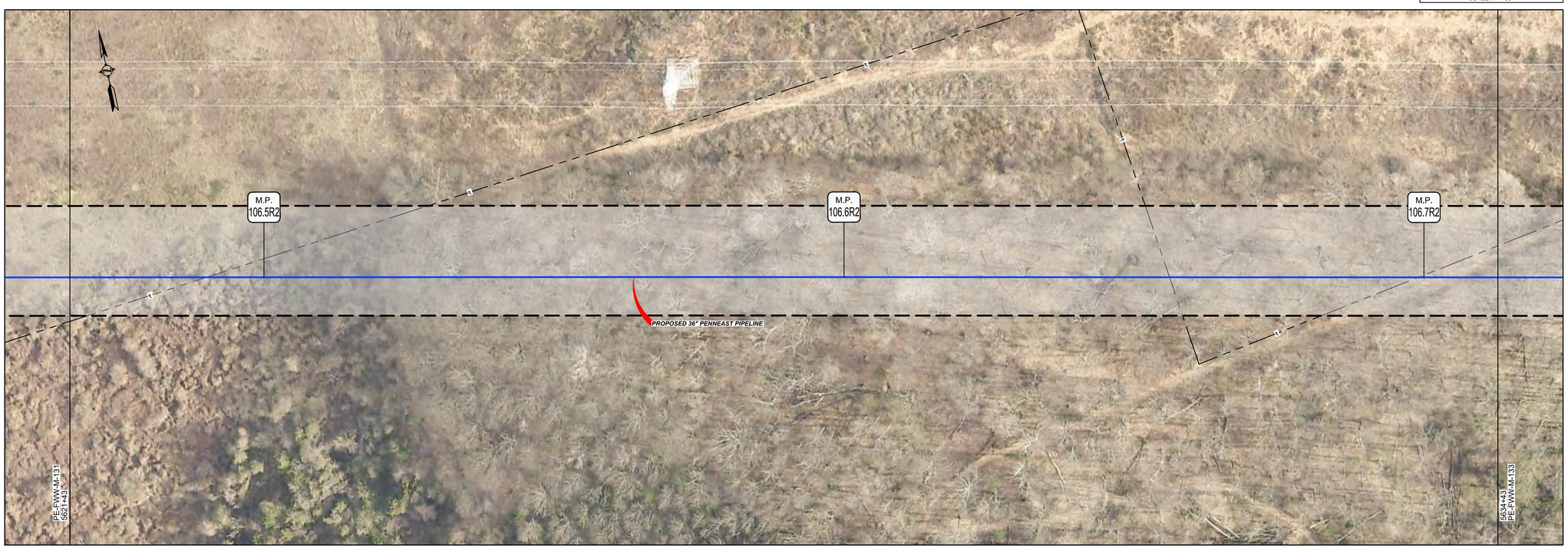

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ENG. APPROVAL	DATE
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MW	7/2019

CLIENT APPROVAL

DATE

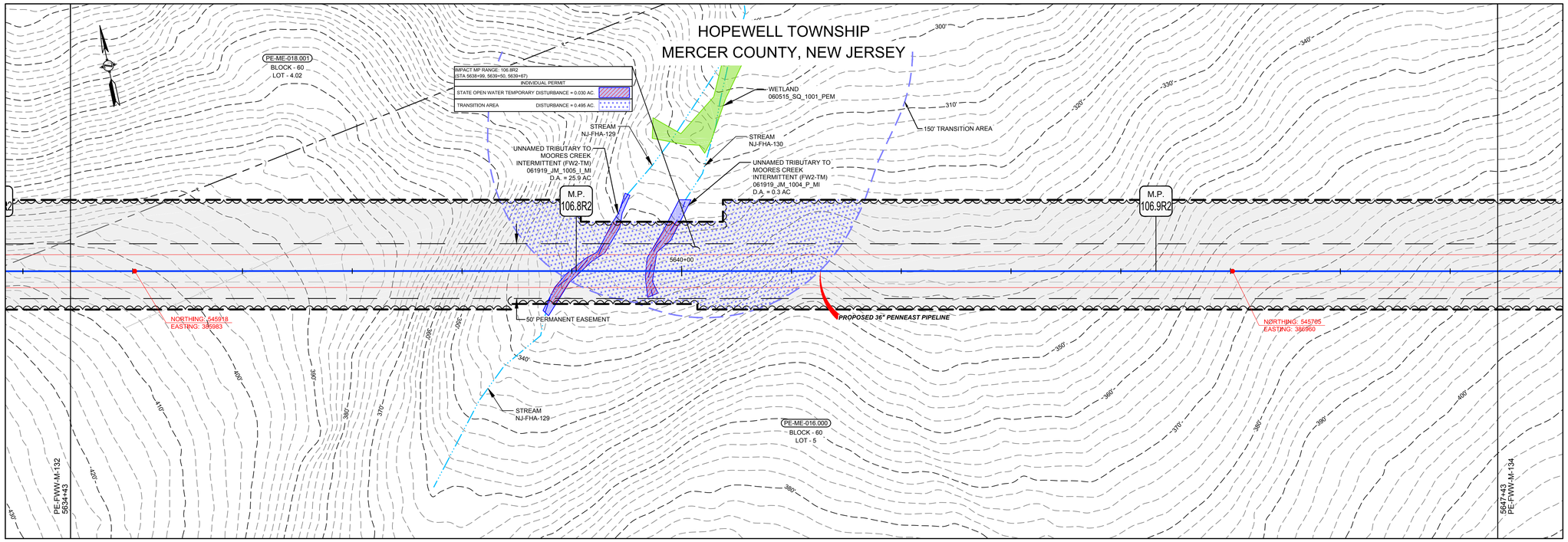
PREPARED FOR
PennEast PIPELINE

PREPARED BY
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 106.5R2 - MP 106.7R2

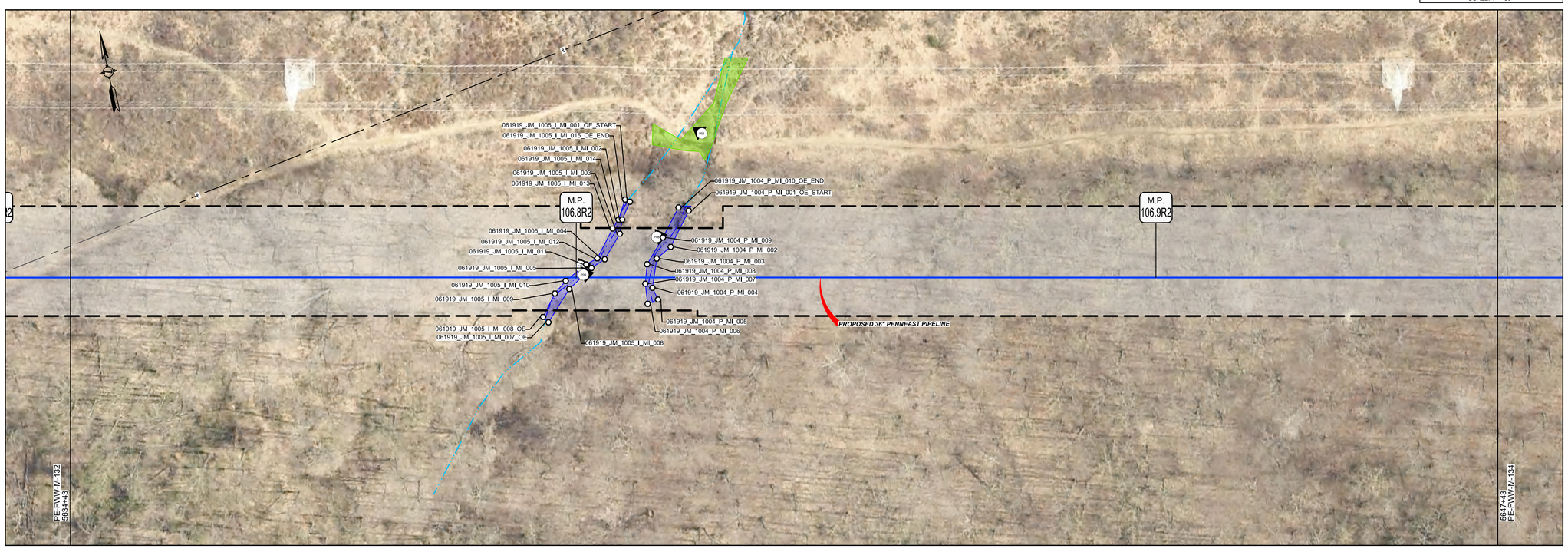
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-132	0



GRAPHIC SCALE

50' 25' 0 50'

SCALE: 1" = 50'



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ENG. APPROVAL MJD	7/2019
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CLIENT APPROVAL — DATE

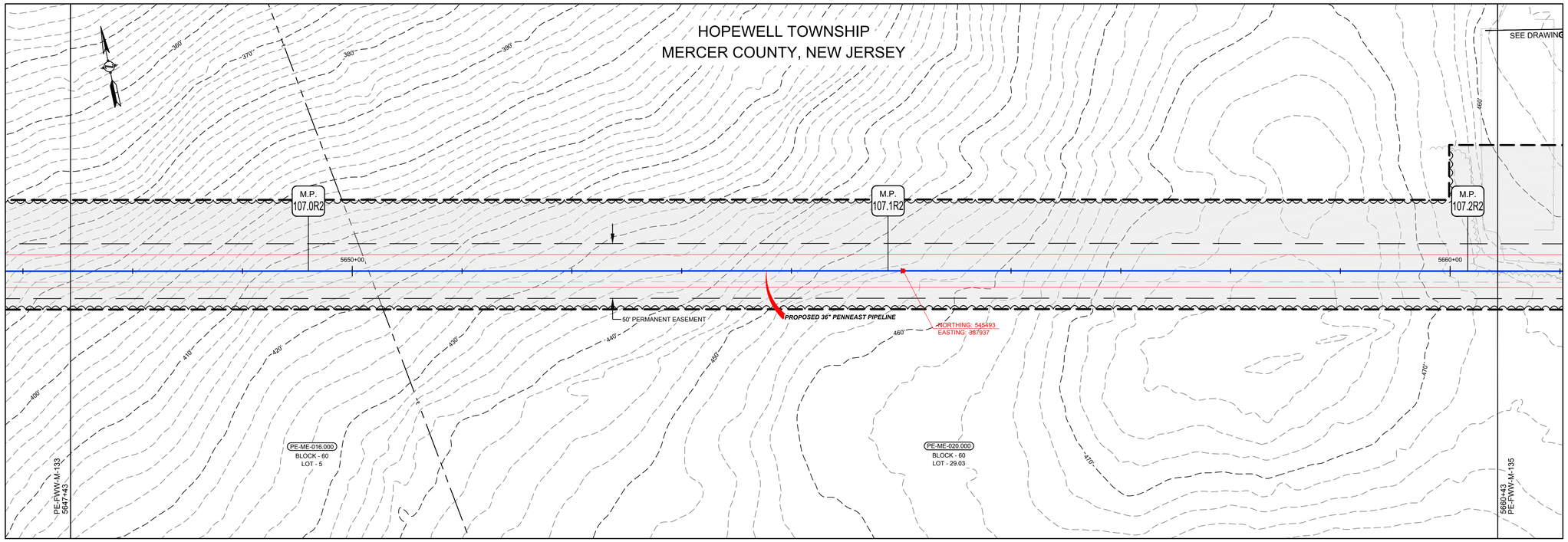
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 106.7R2 - MP 107.0R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-133	0



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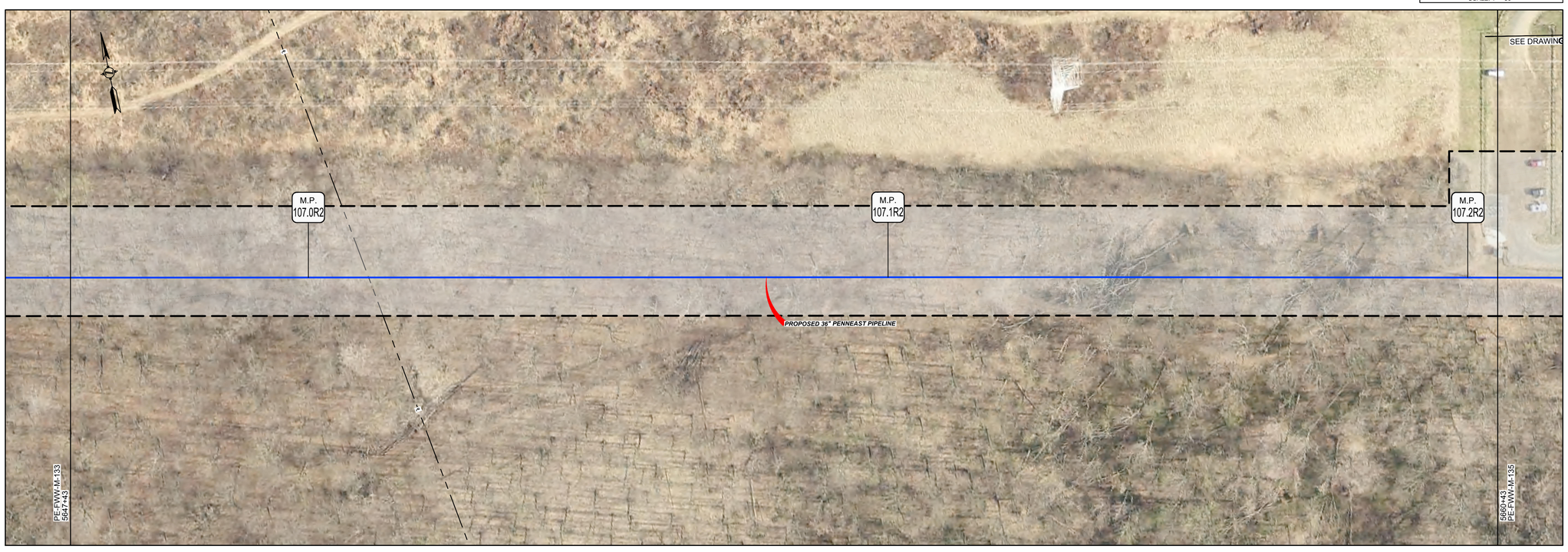

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PREPARED FOR
PennEast PIPELINE

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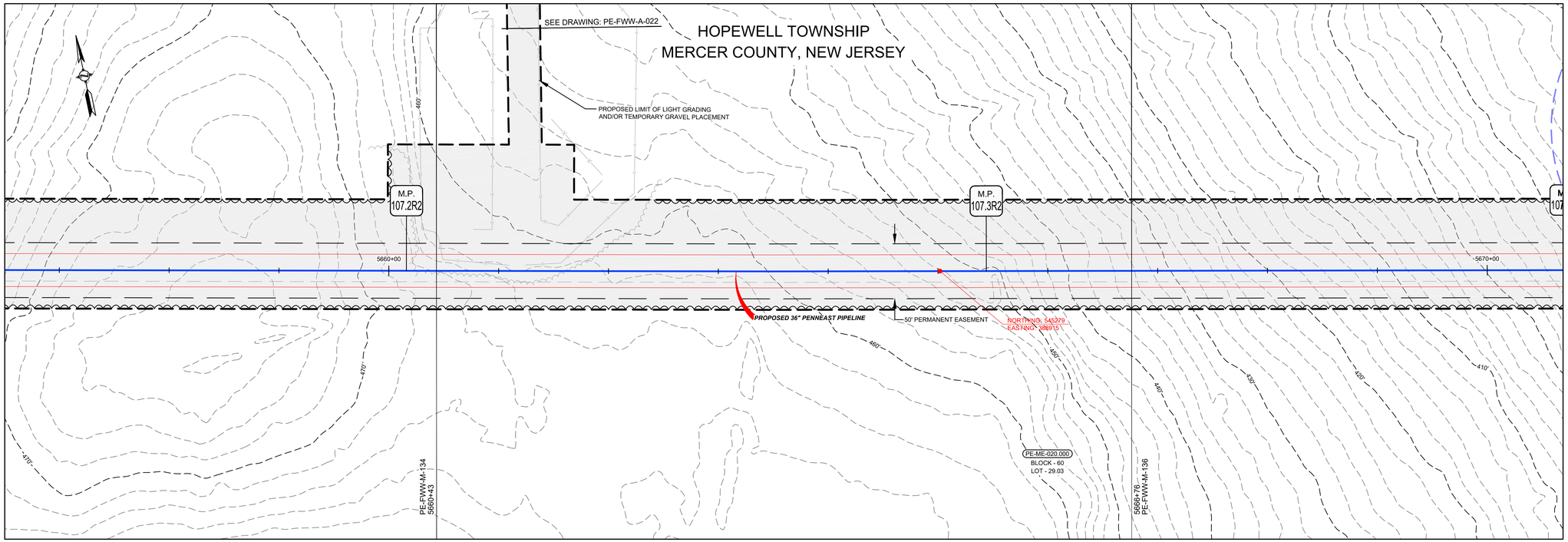

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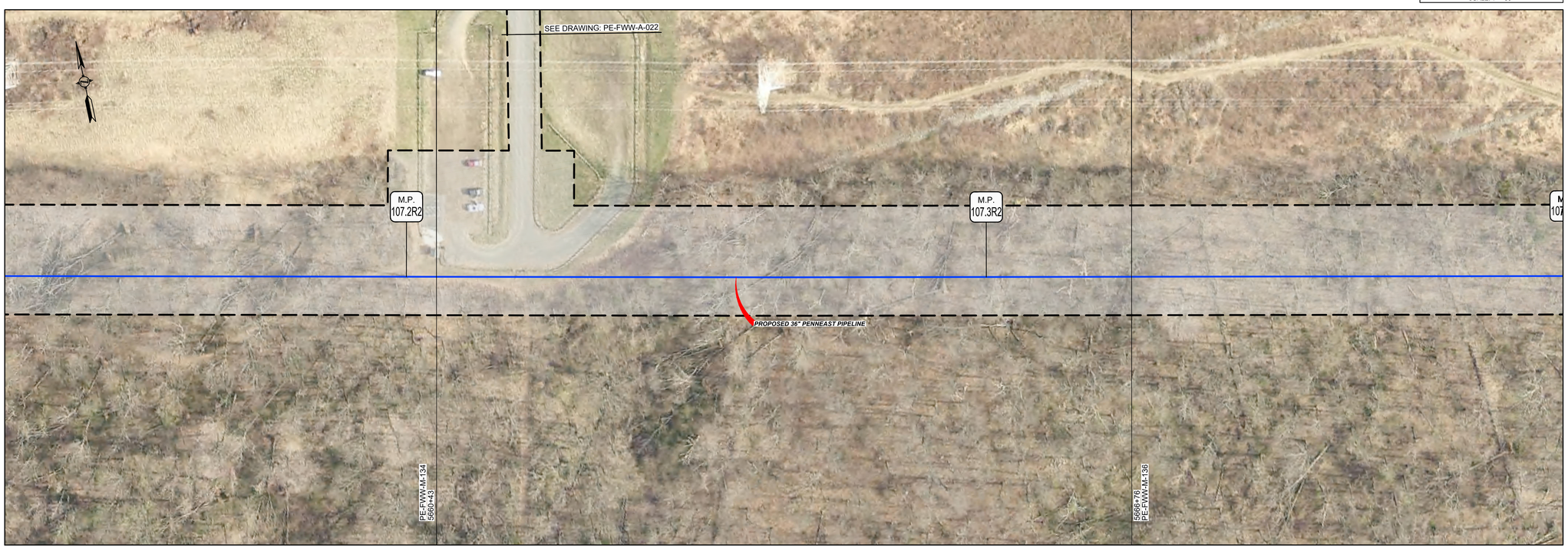

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THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-078	* ACCESS ROAD DETAIL

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
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KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL

DATE 7/2019

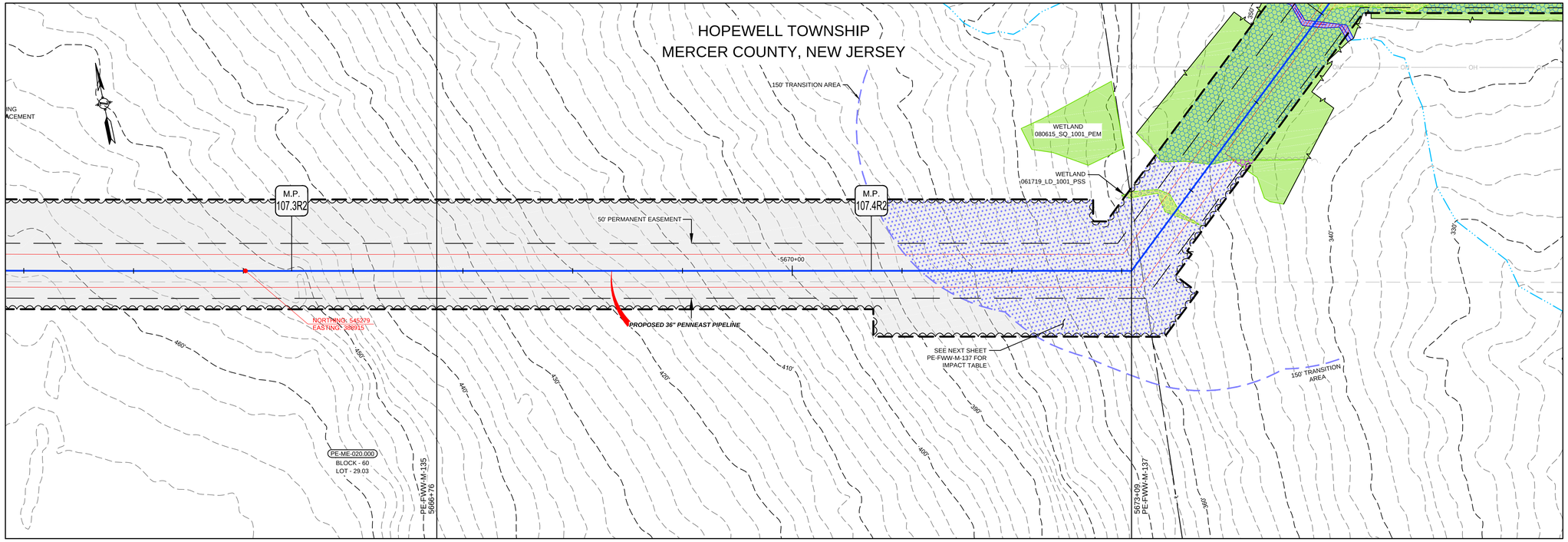
PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 107.2R2 - MP 107.3R2

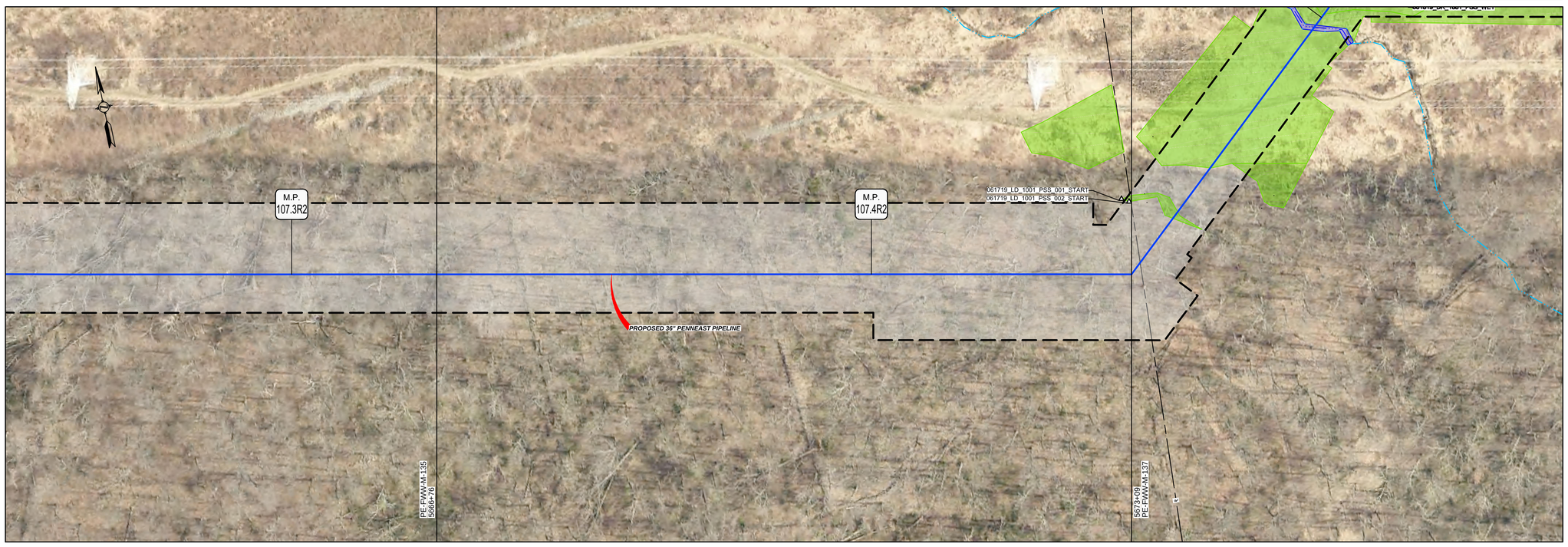
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-135	0



GRAPHIC SCALE

50' 25' 0 50'

SCALE: 1" = 50'



LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND LOD IMPACT
- PSS WETLAND LOD IMPACT
- PFO WETLAND LOD IMPACT
- MODAG WETLAND LOD IMPACT
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY LOD IMPACT
- TRANSITION AREA IMPACT
- TRANSITION AREA
- STREAM CENTERLINE (SURVEYED)
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- LIMITS OF WETLAND DELINEATION
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- LB-HU-A001.000 — PARCEL ID WITH BLOCK AND LOT NUMBER (BLOCK - 1, LOT - 10.00)
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- WETLAND FLAG NO — WETLAND FLAG
- SAMPLE STATION — SAMPLE STATION
- SOW_FLAG_NO — STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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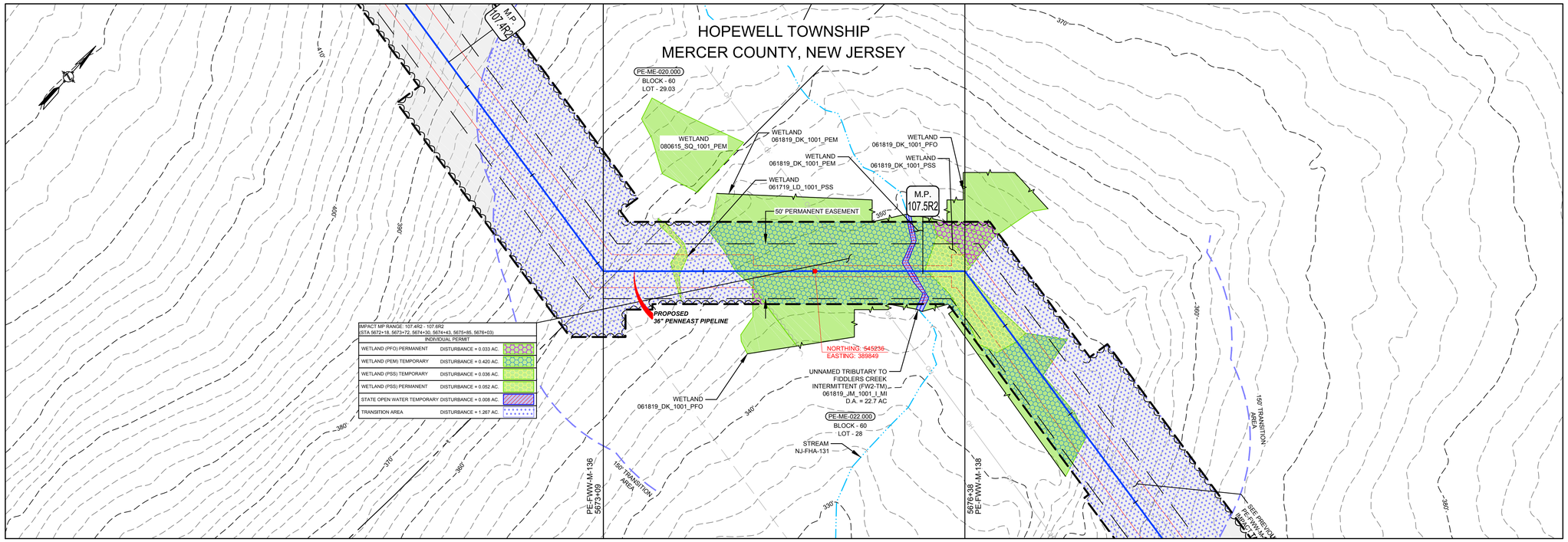
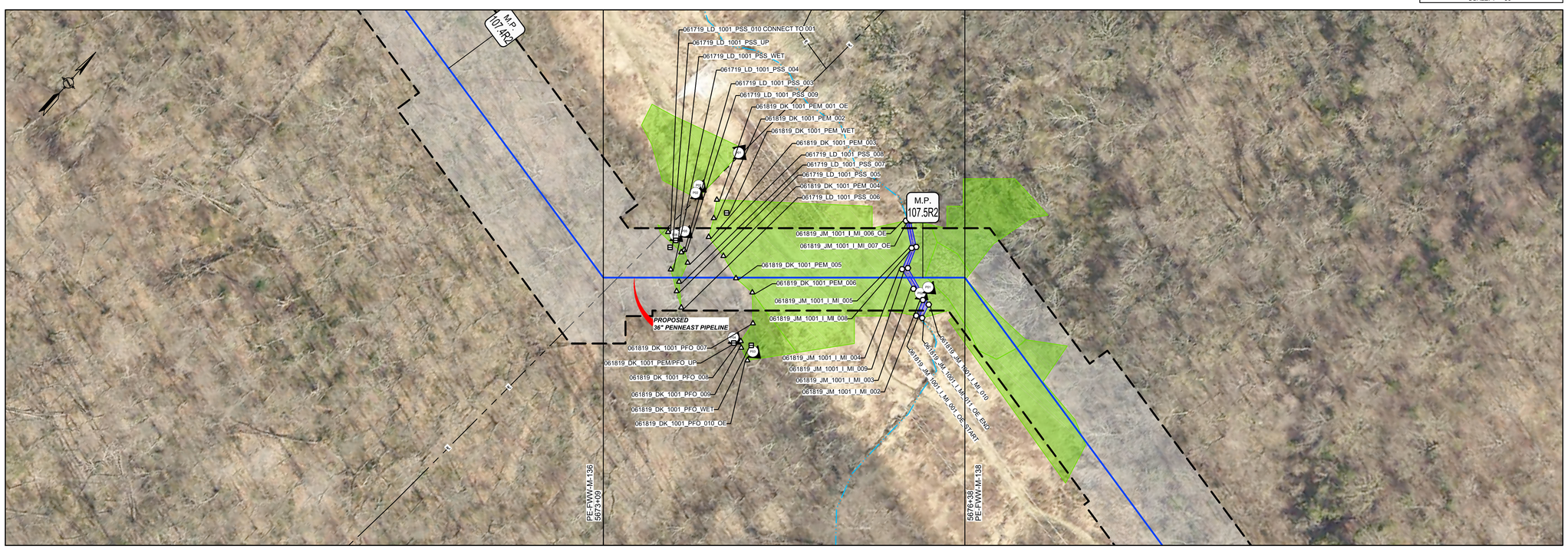
PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 107.3R2 - MP 107.4R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-136	0





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MW	7/2019

CLIENT APPROVAL — DATE 7/2019

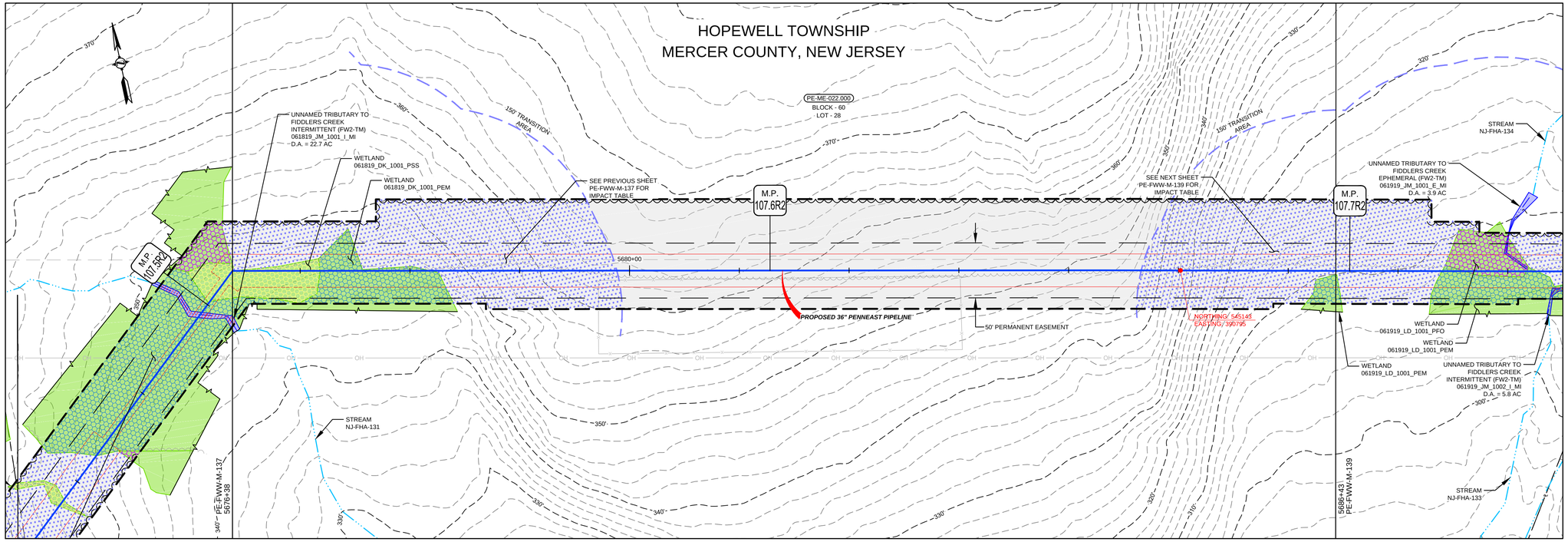
PREPARED FOR PennEast PIPELINE

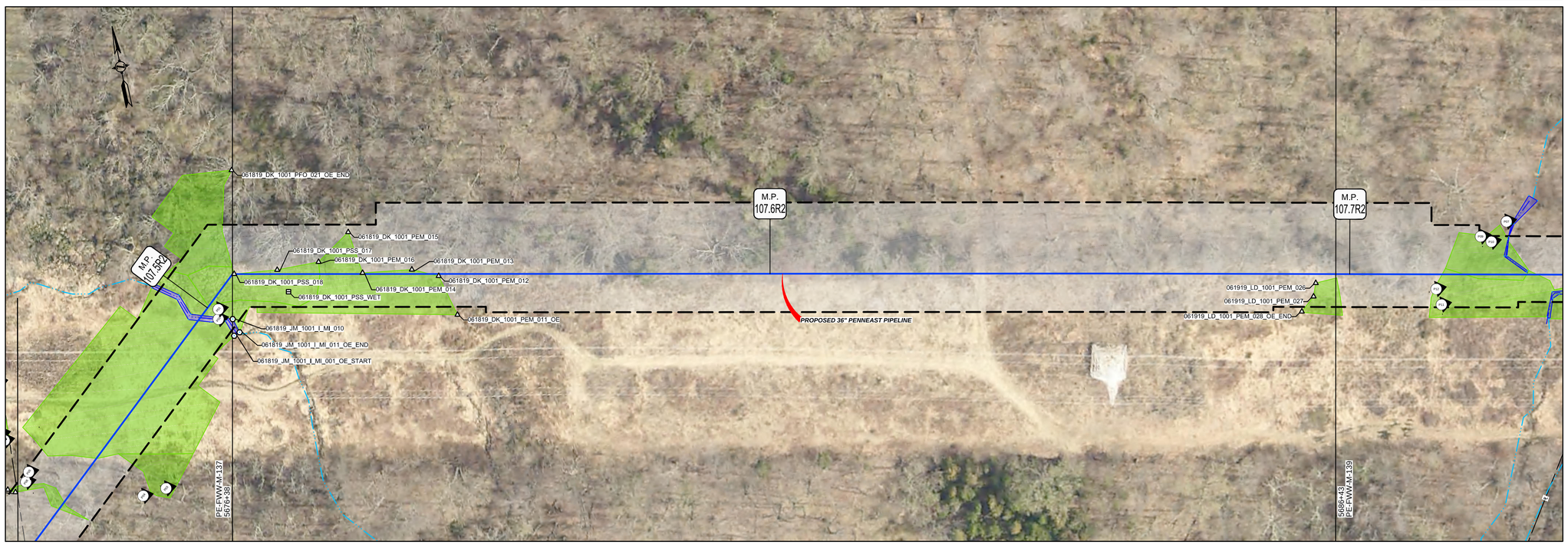
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 107.4R2 - MP 107.5R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-137	0





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CLIENT APPROVAL — DATE: 7/2019

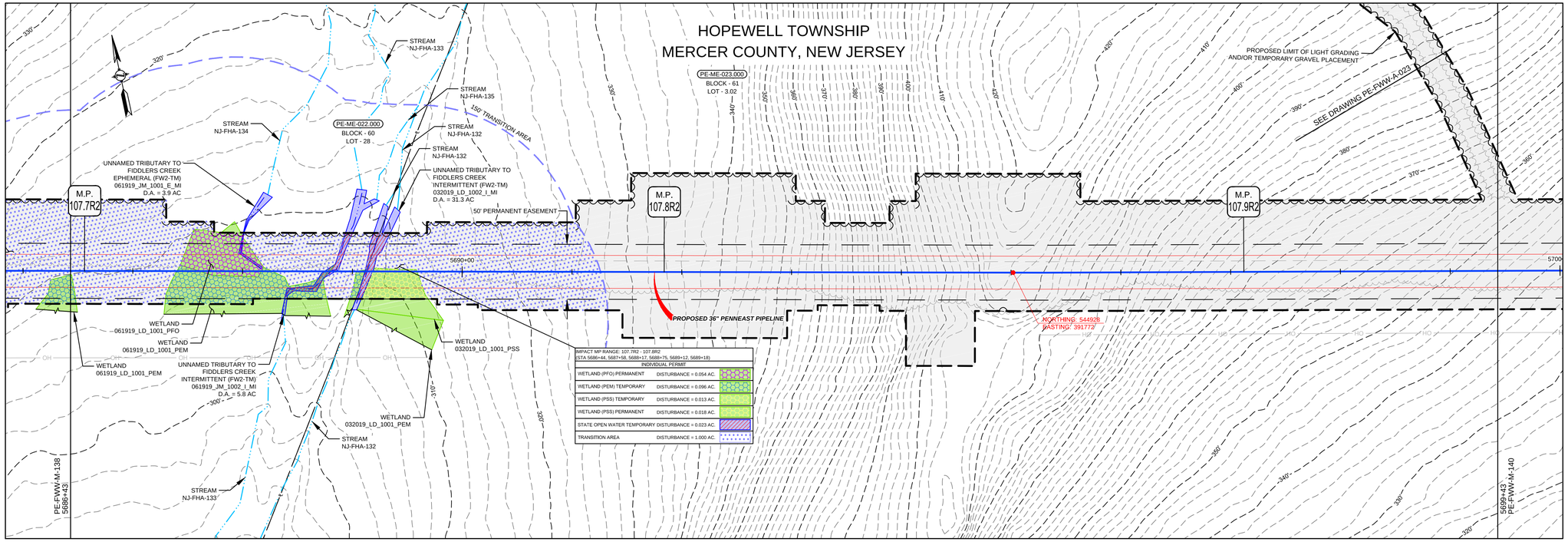
PREPARED FOR: PennEast Pipeline

PREPARED BY: MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 107.5R2 - MP 107.7R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-138	0



LEGEND

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PENNEAST PIPELINE PROJECT

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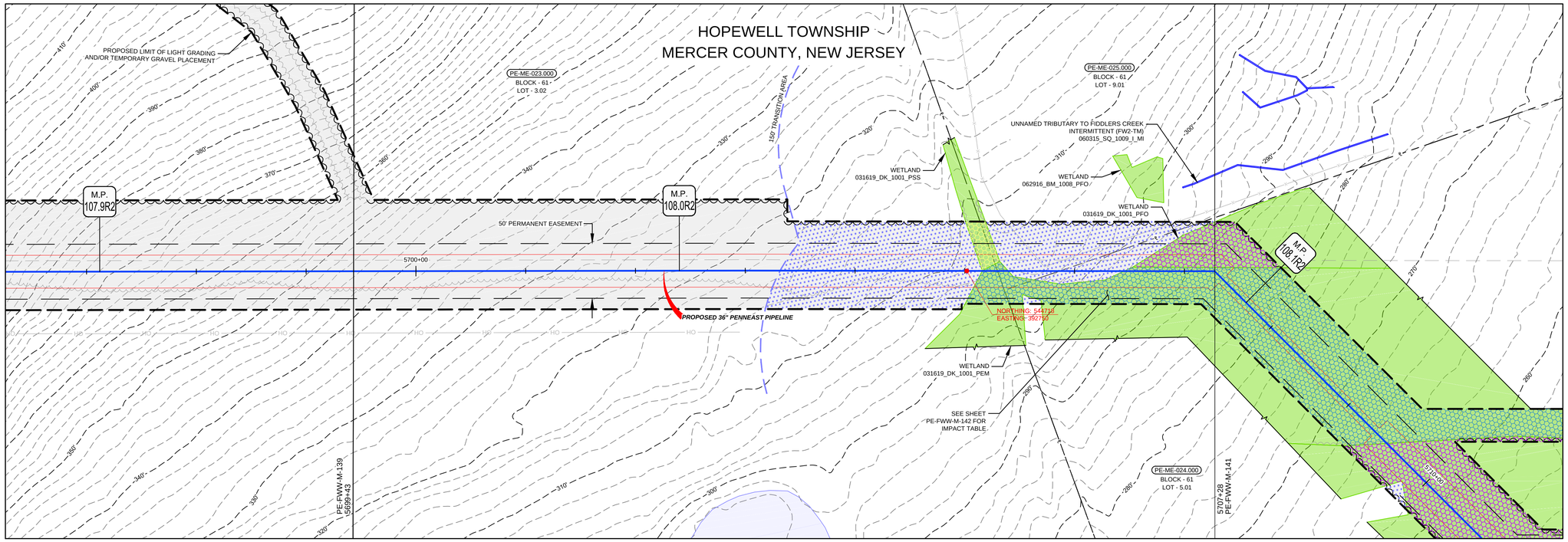
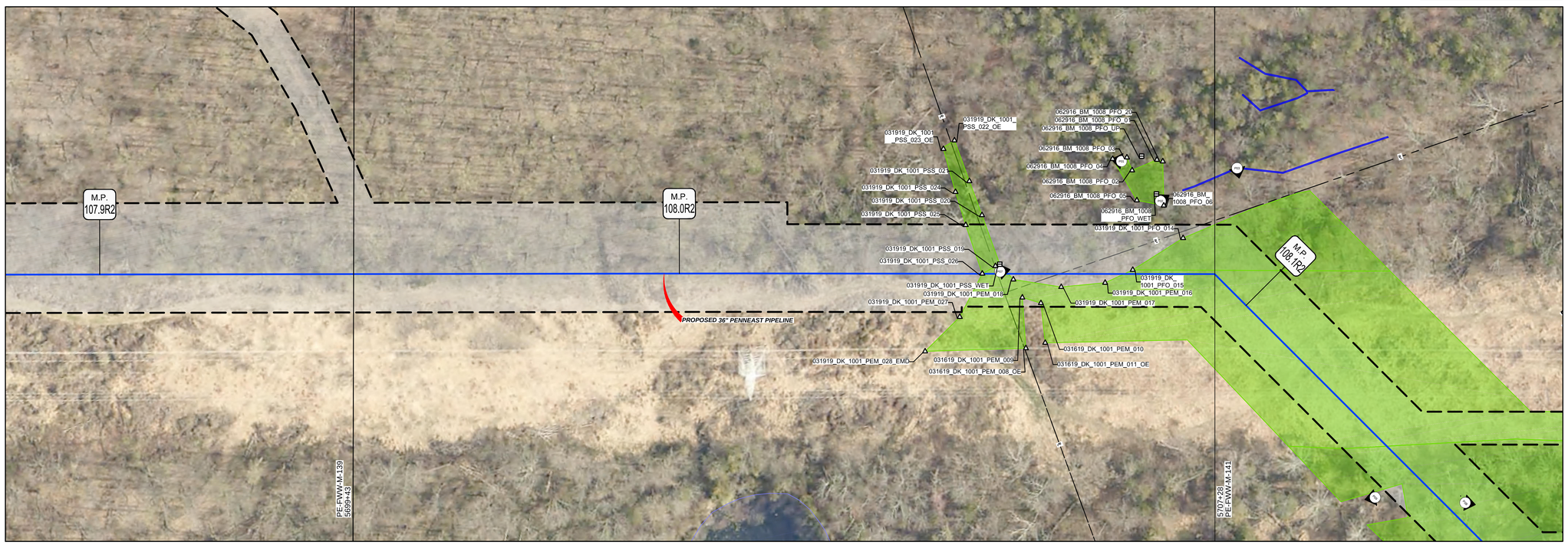
FRESHWATER WETLAND PERMIT PLAN
MP 107.7R2 - MP 107.9R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-139	0





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PSS WETLAND IMPACTS ARE TEMPORARY OUTSIDE OF OPERATIONAL CORRIDOR AND PERMANENT WITHIN OPERATIONAL CORRIDOR

PFO WETLAND IMPACTS ARE PERMANENT

MODAG WETLAND IMPACTS ARE TEMPORARY

WATERBODY IMPACTS ARE TEMPORARY

I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

THOMAS D. STRONG
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 24GS03676100

SIGNATURE — DATE 08/01/2019

I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED ENVIRONMENTAL DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND WITH THE DETAILED ENGINEERING DRAWINGS.

MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

NOTES:
1. UNLESS THESE DRAWINGS ARE SPECIFICALLY DESIGNATED AS "CONSTRUCTION ISSUE", THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION OR IMPROVEMENTS DEPICTED HEREIN. CONTRACTORS SHALL NOTIFY THE DESIGN ENGINEER TO OBTAIN CONSTRUCTION DOCUMENTS.
2. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION.
3. WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
4. PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
5. RIPARIAN ZONES AND WETLAND TRANSITION AREAS PROVIDED BY PAULIUS, SOKOLOWSKI AND SARTOR (PS&S).
6. CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.

REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-079.1	* ACCESS ROAD DETAIL

REVISIONS

NO.	REVISIONS	DATE	DRAWN	CK	APPR
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL

DATE 7/2019

PREPARED FOR PennEast PIPELINE

PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 107.9R2 - MP 108.1R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-140	0