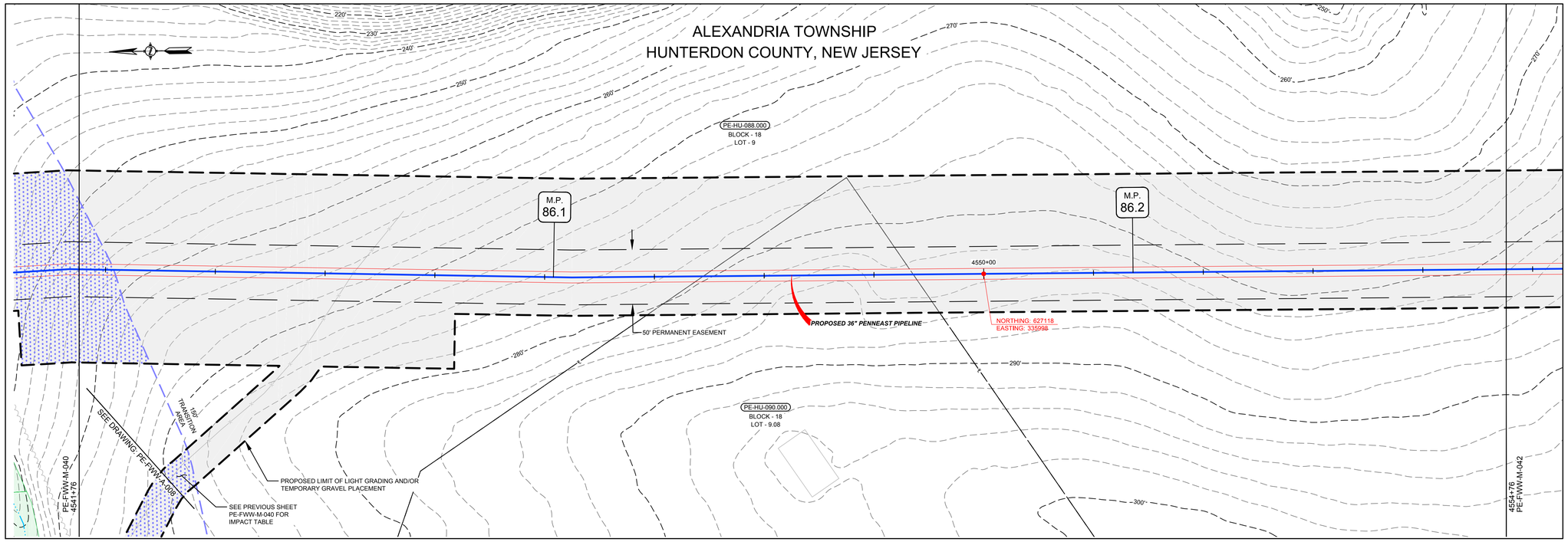

GRAPHIC SCALE
50' 25' 0 50'
SCALE: 1" = 50'

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)
- EXISTING CULVERT
- CPP — CORRUGATED PLASTIC PIPE
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- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260' — EXISTING MAJOR CONTOURS
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- EXISTING PIPELINE
- OH — EXISTING OVERHEAD LINE
- EXISTING TREE
- 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
PROFESSIONAL ENGINEER
N.J. LIC. NO. 24GE05078700

SIGNATURE — DATE 08/01/2019

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6. CIVIL SURVEY CONDUCTED AND DRAWINGS PREPARED BY MOTT MACDONALD.

REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-065	* 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

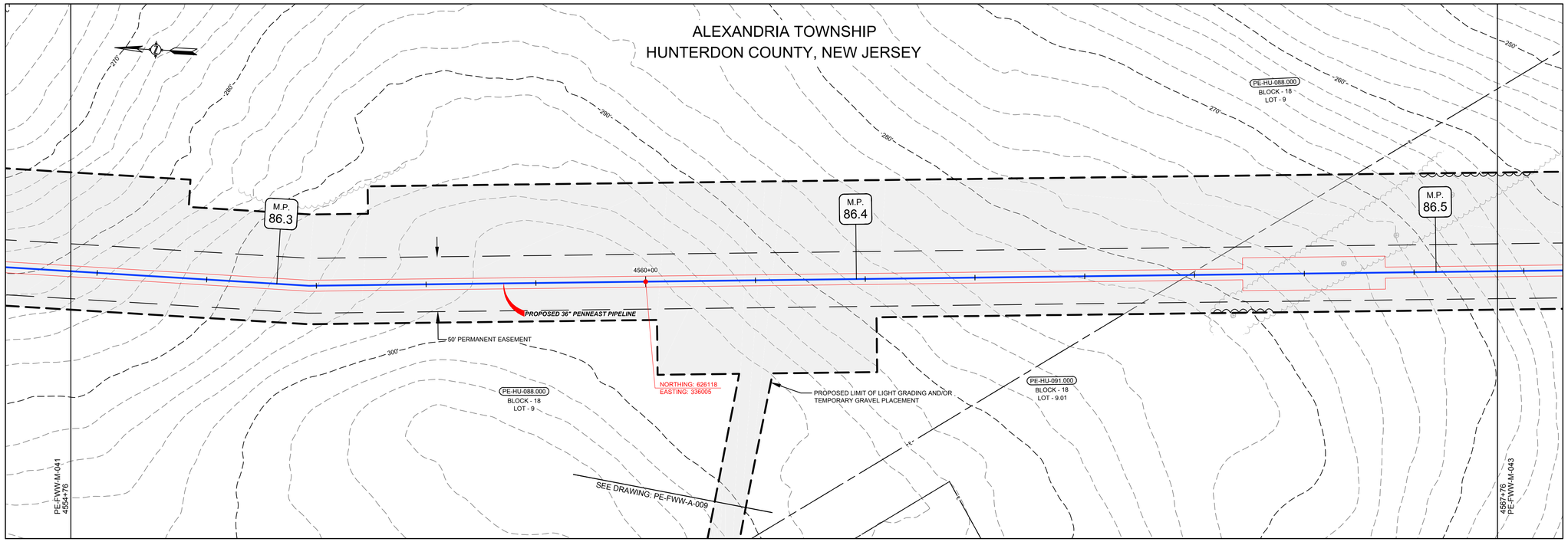
PREPARED FOR PennEast PIPELINE

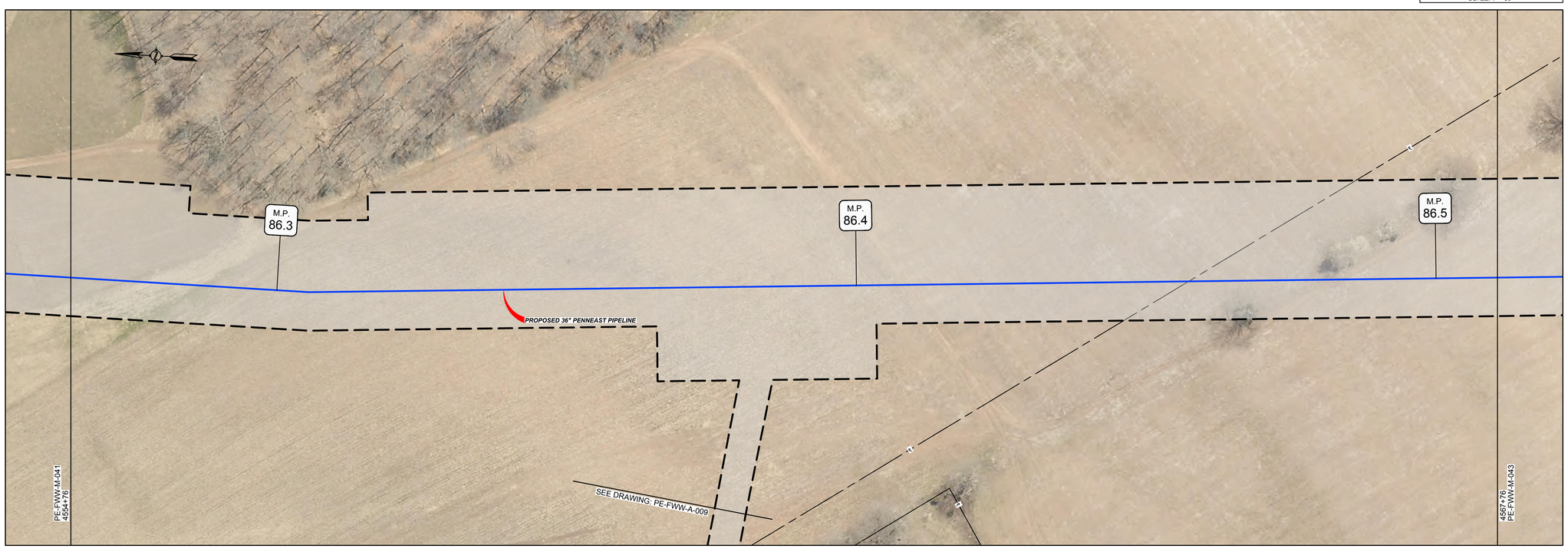
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 86.0 - MP 86.3

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-041	0





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SIGNATURE — DATE: 08/01/2019

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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-066	* 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

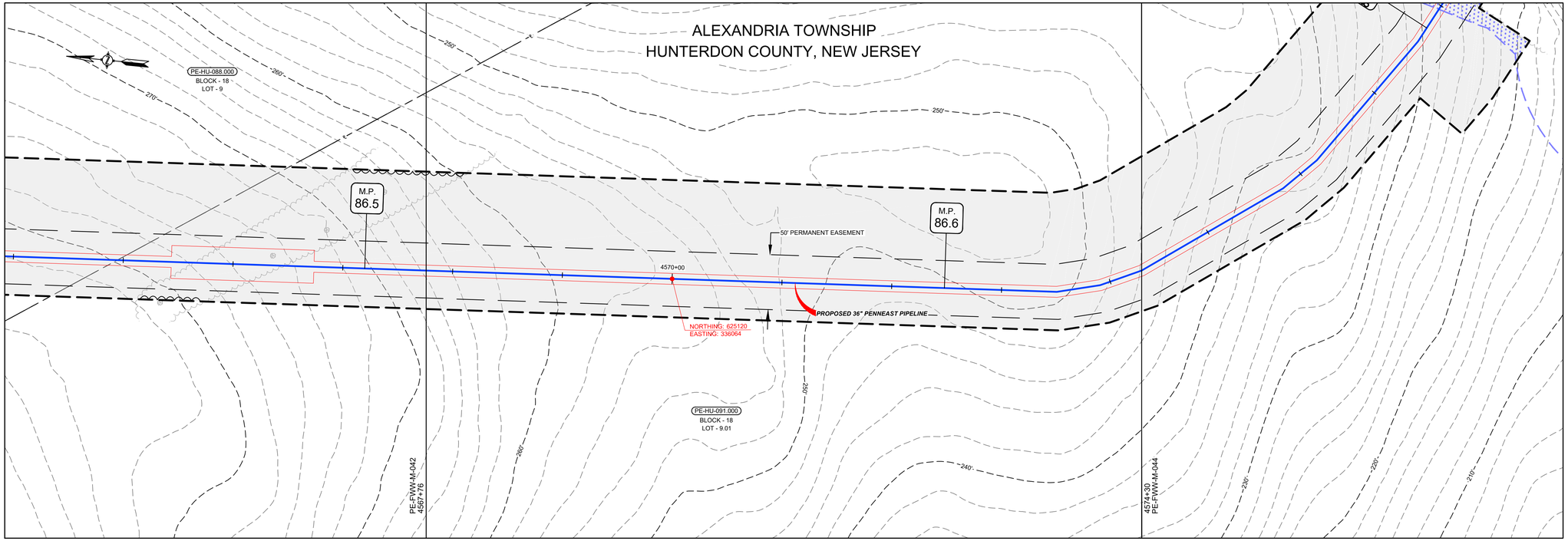
PREPARED FOR: PennEast Pipeline

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 86.3 - MP 86.5

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-042	0



GRAPHIC SCALE
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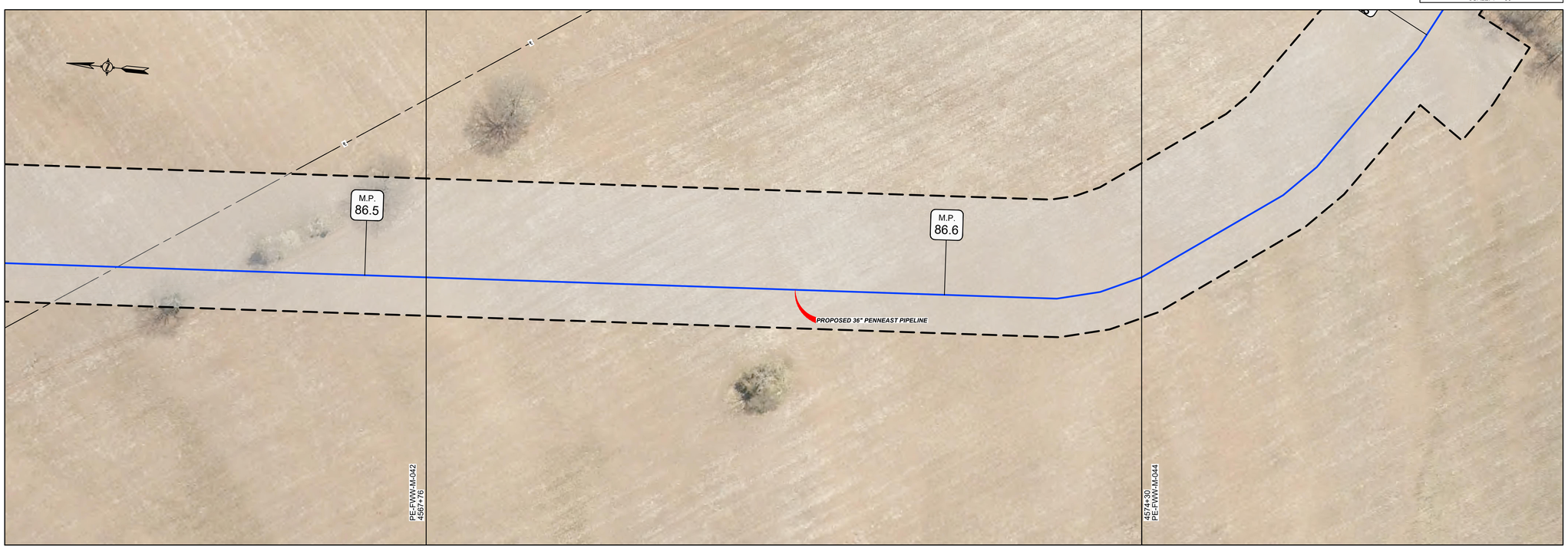

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DWG. NO.	TITLE

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

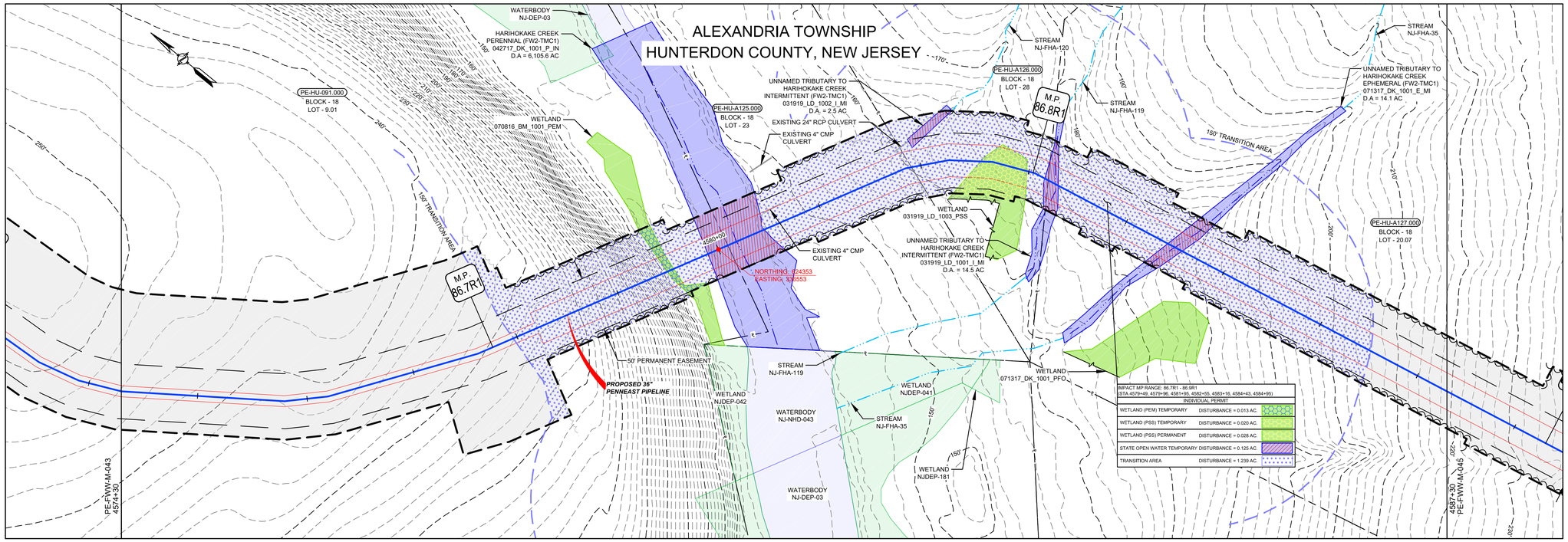
PREPARED FOR
PennEast PIPELINE

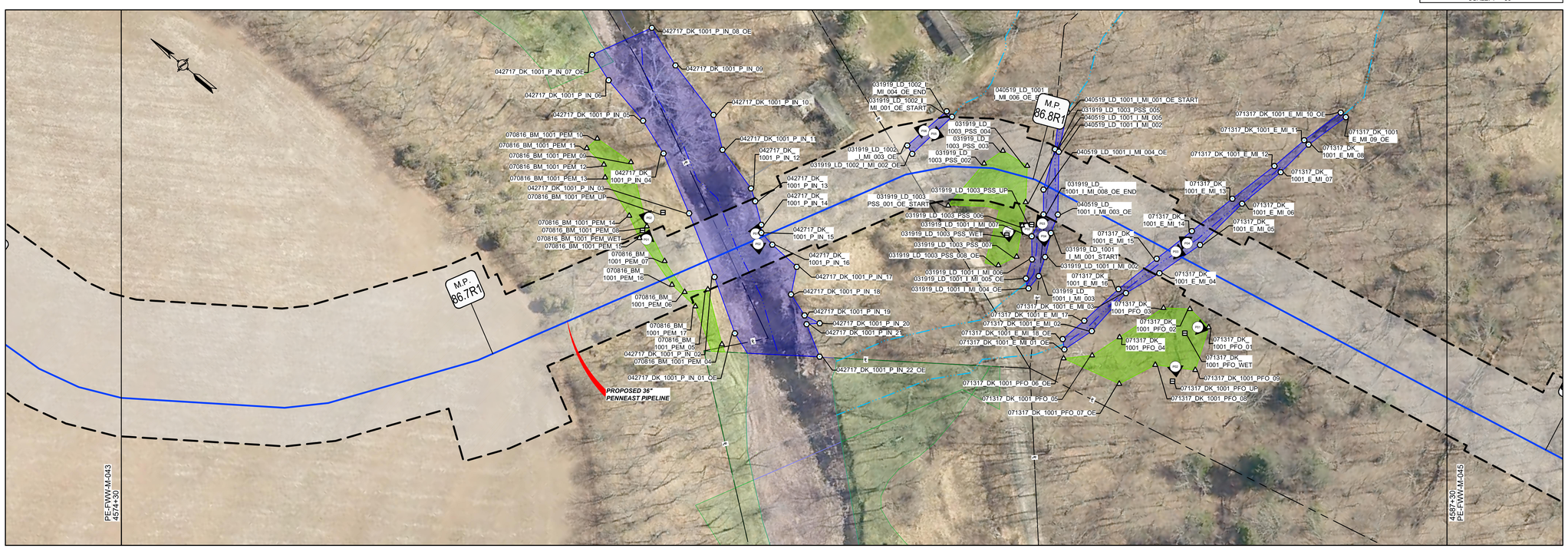
PREPARED BY
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 86.5 - MP 86.6

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-043	0





LEGEND

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CLIENT APPROVAL — DATE 7/2019

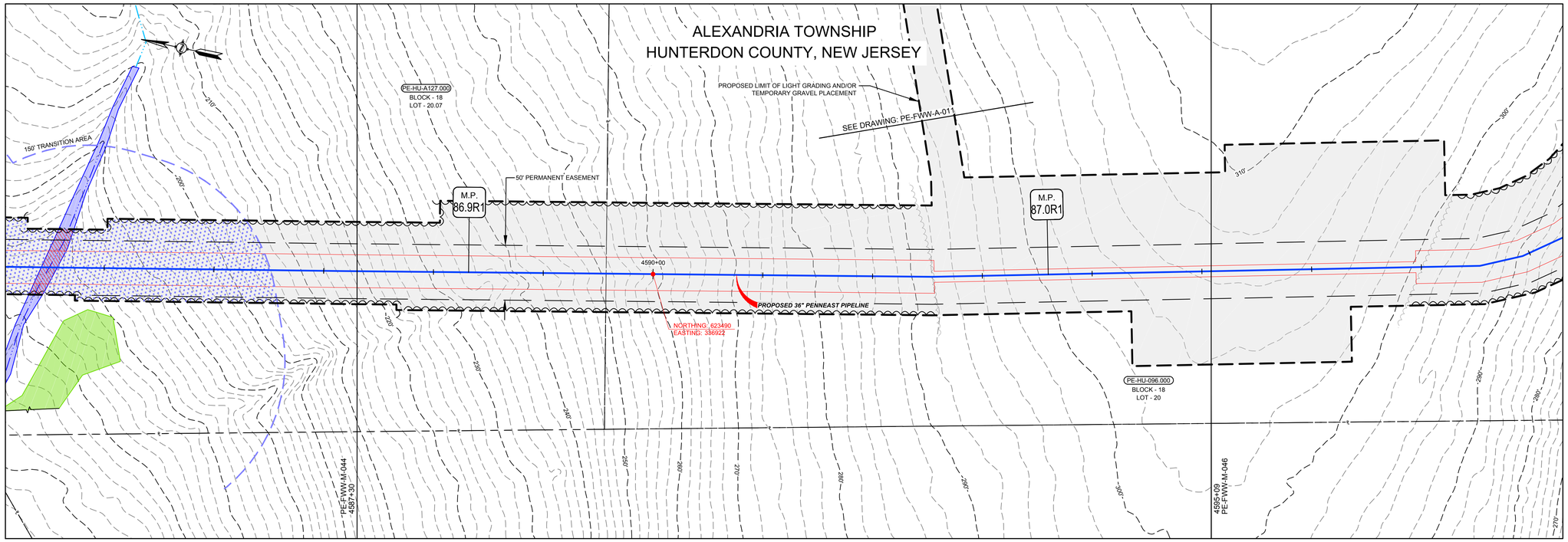
PREPARED FOR PennEast PIPELINE

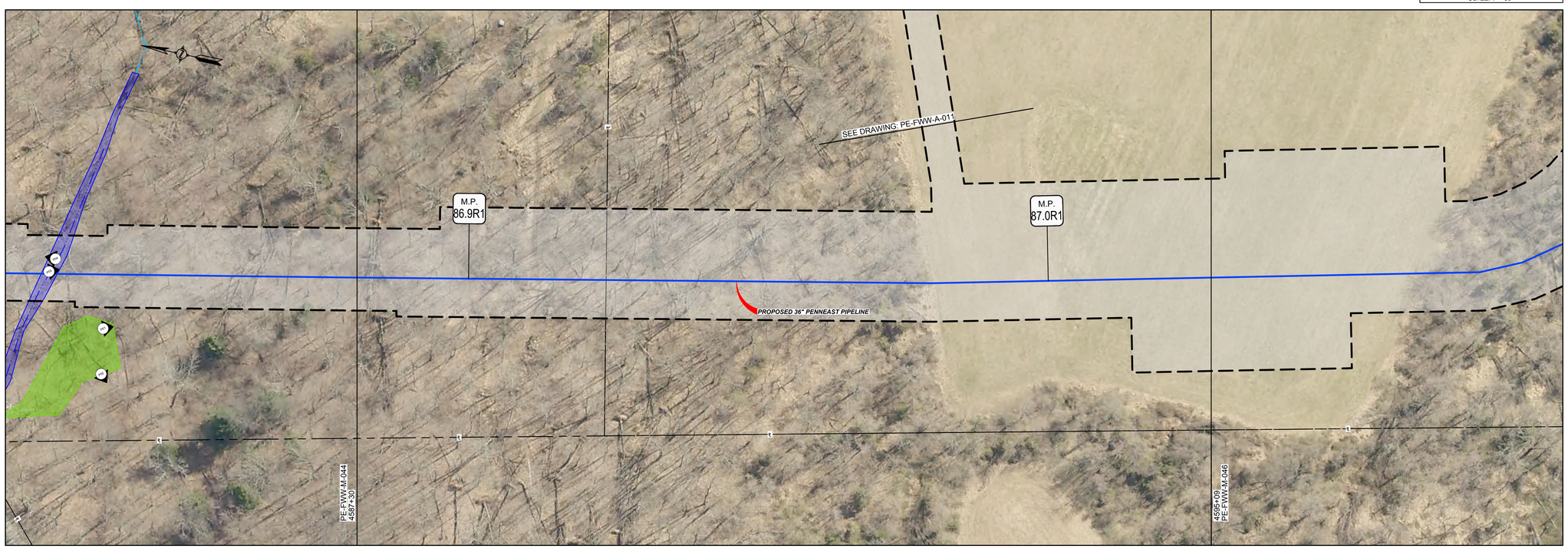
PREPARED BY MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 86.6 - MP 86.9R1

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-044	0





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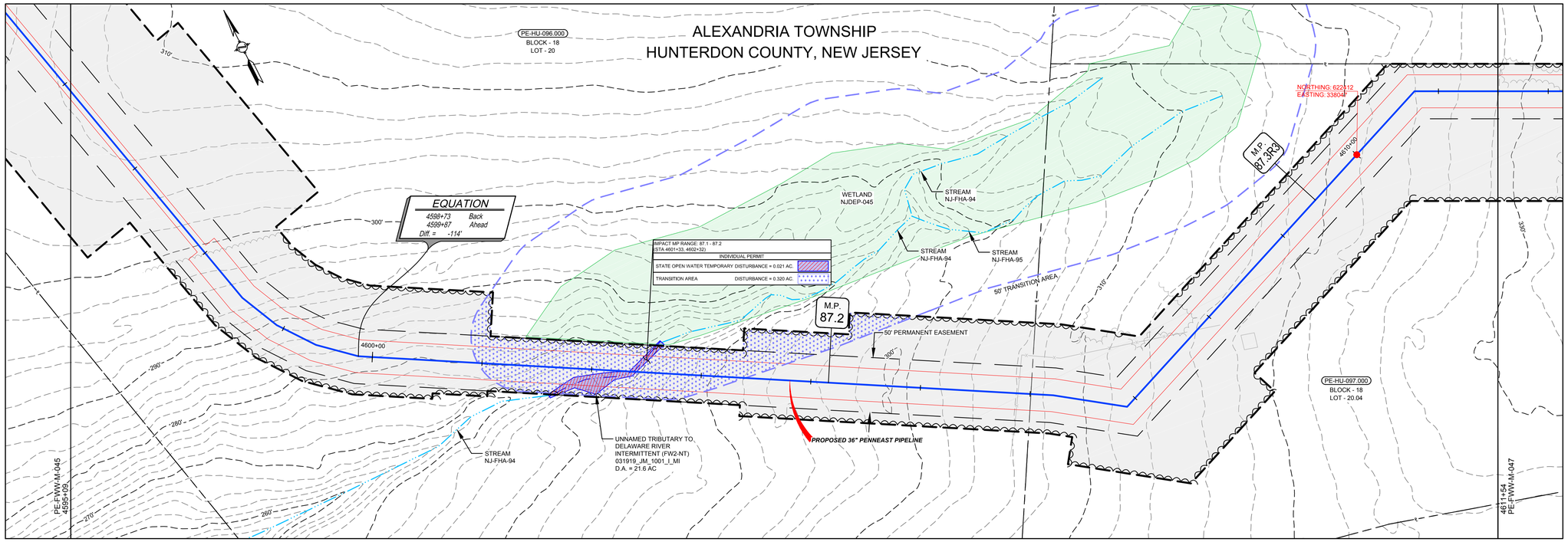
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 86.9R1 - MP 87.0R1

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-045	0



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 08/01/2019 DATE

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

DWG. NO.	TITLE

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

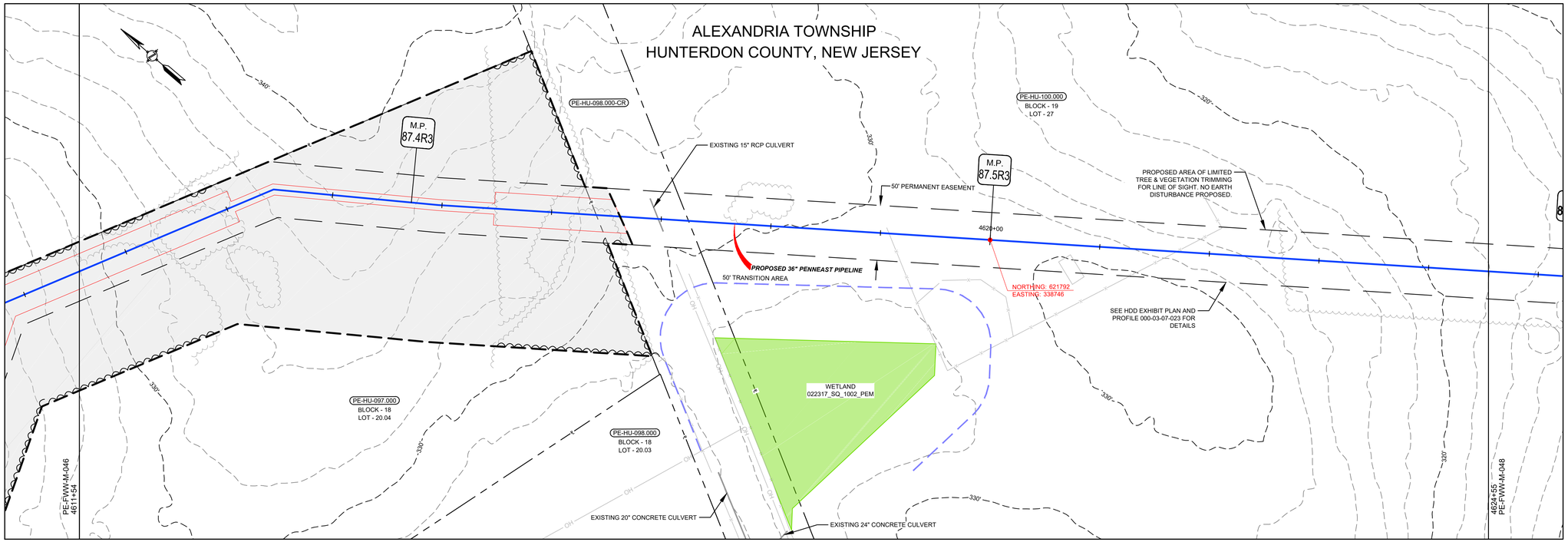
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 87.0R1 - MP 87.3R3

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-046	0



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

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- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
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- TRANSITION AREA
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- UNK — UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- 1260'+ — EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
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- EXISTING TREE
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- WETLAND FLAG NO — WETLAND FLAG
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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-07-023	* 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

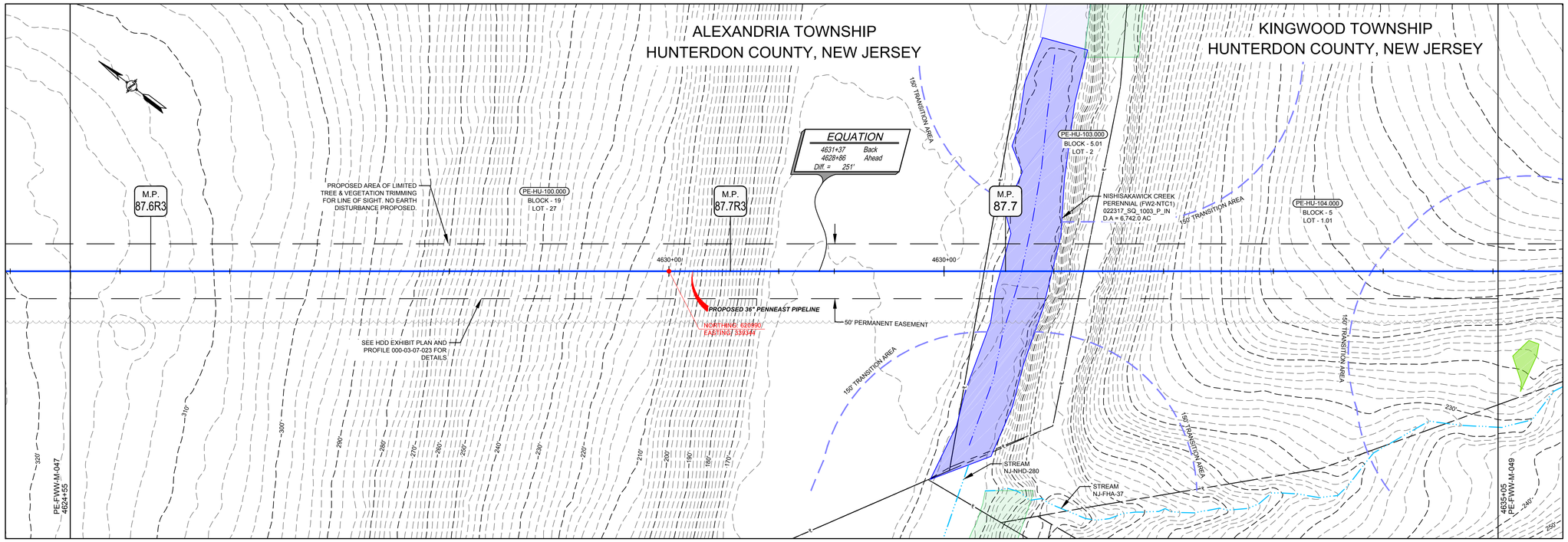
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 87.3R3 - MP 87.6R3

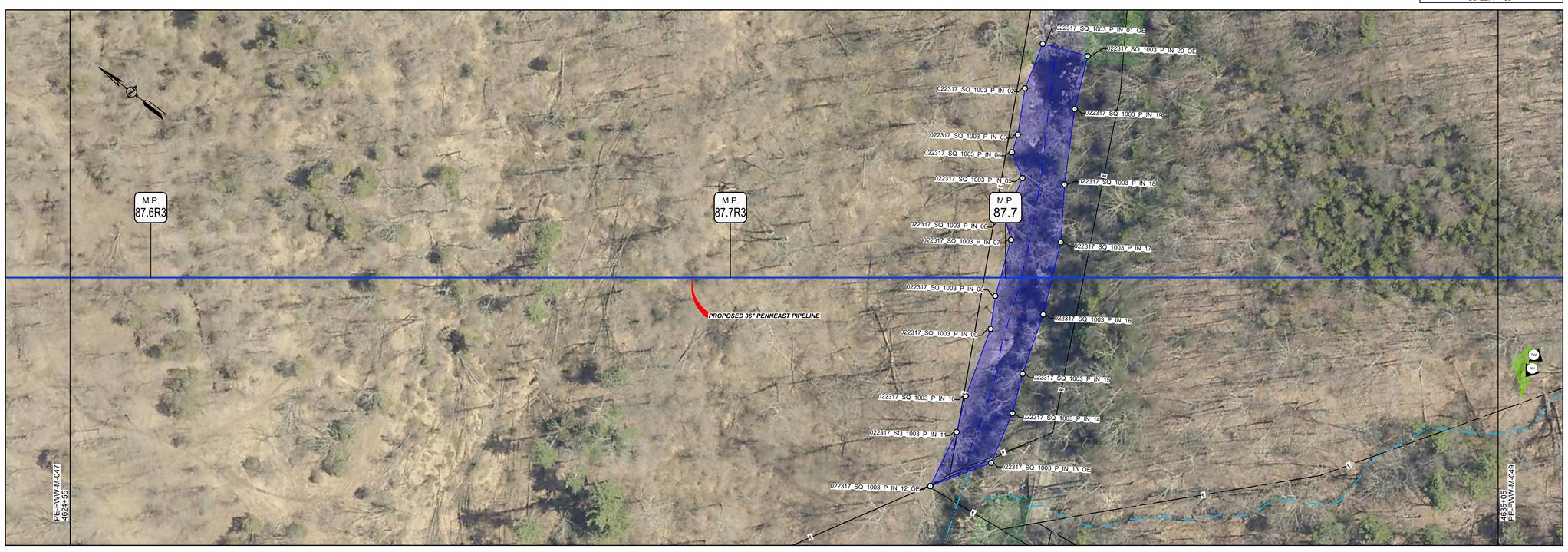
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-047	0



GRAPHIC SCALE

50' 25' 0 50'

SCALE: 1" = 50'



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DWG. NO.	TITLE
000-03-07-023	* HDD EXHIBIT PLAN AND PROFILE

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 7/2019

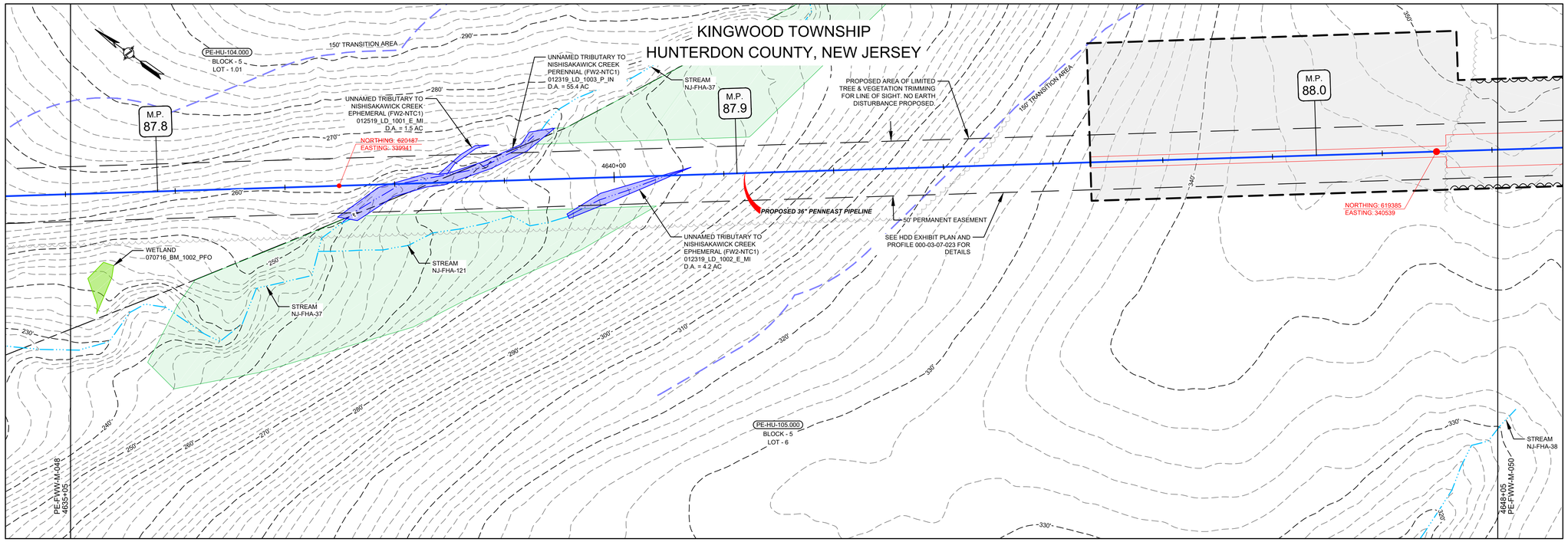
PREPARED FOR: PennEast Pipeline

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 87.6R3 - MP 87.8

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-048	0



GRAPHIC SCALE
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SCALE: 1" = 50'

LEGEND

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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-07-023	* HDD EXHIBIT PLAN AND PROFILE

REVISIONS

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0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS

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

CLIENT APPROVAL — DATE 7/2019

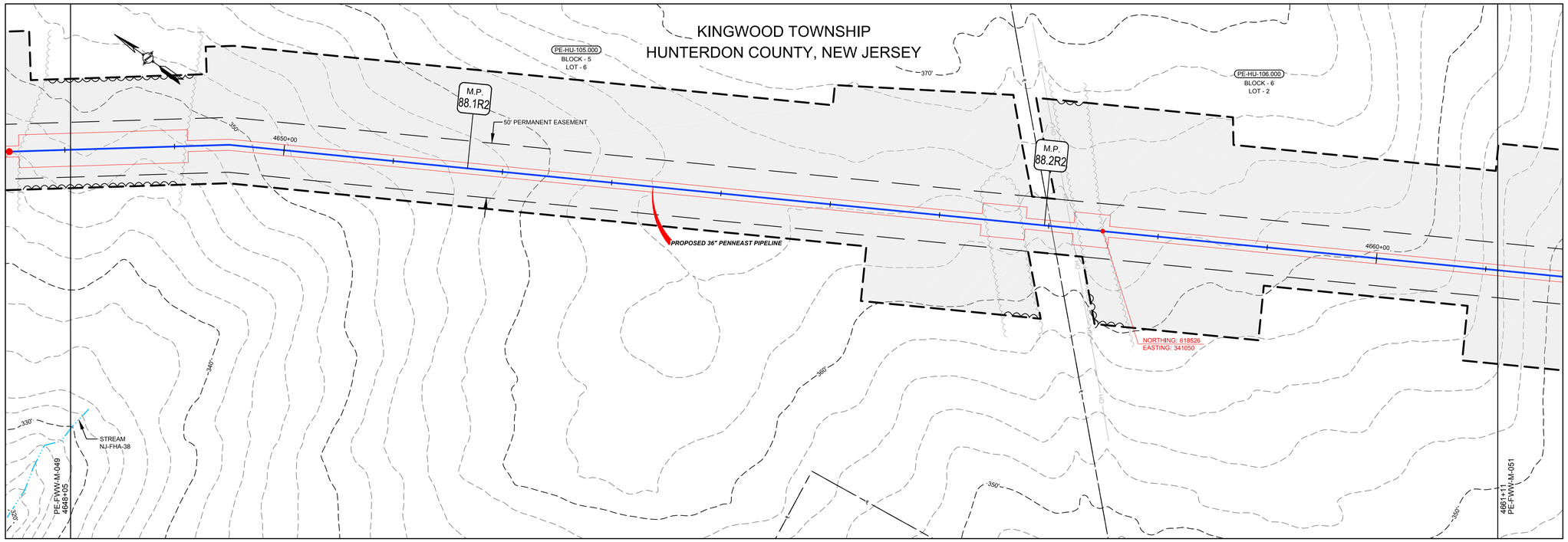
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 87.8 - MP 88.0

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-049	0



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

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ENG. APPROVAL: MJD	7/2019
P.M. APPROVAL: MW	7/2019

CLIENT APPROVAL — DATE 7/2019

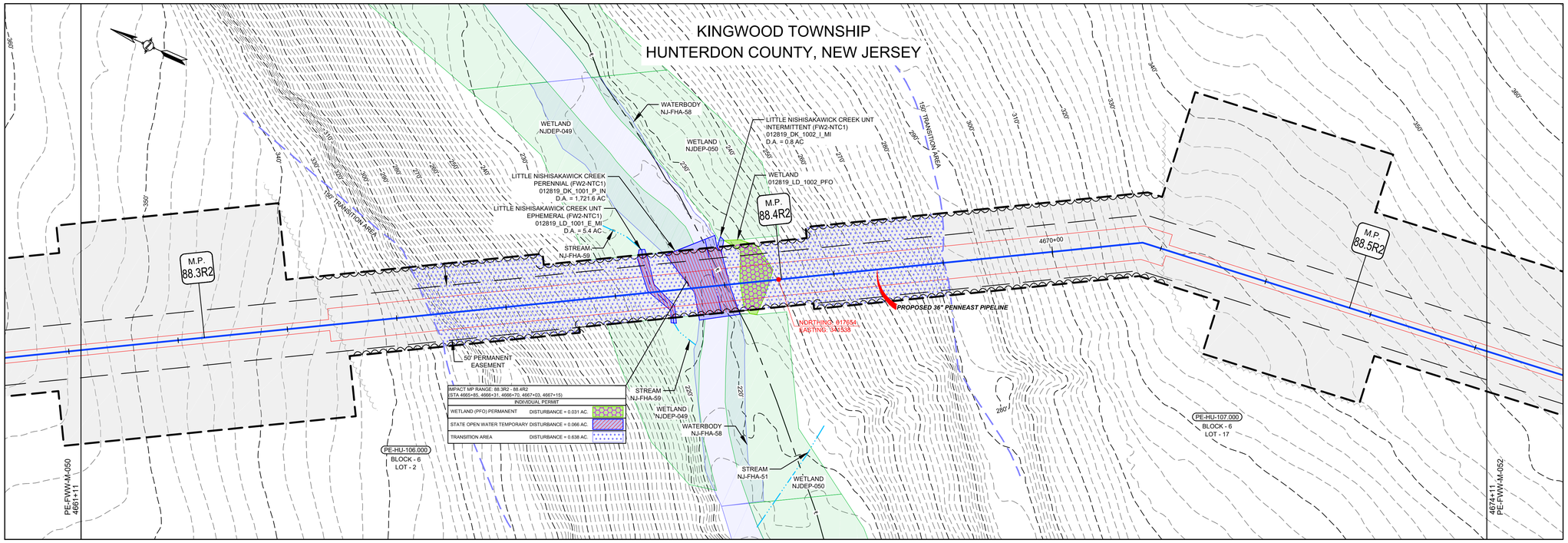
PREPARED FOR: PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 88.0 - MP 88.3R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-050	0



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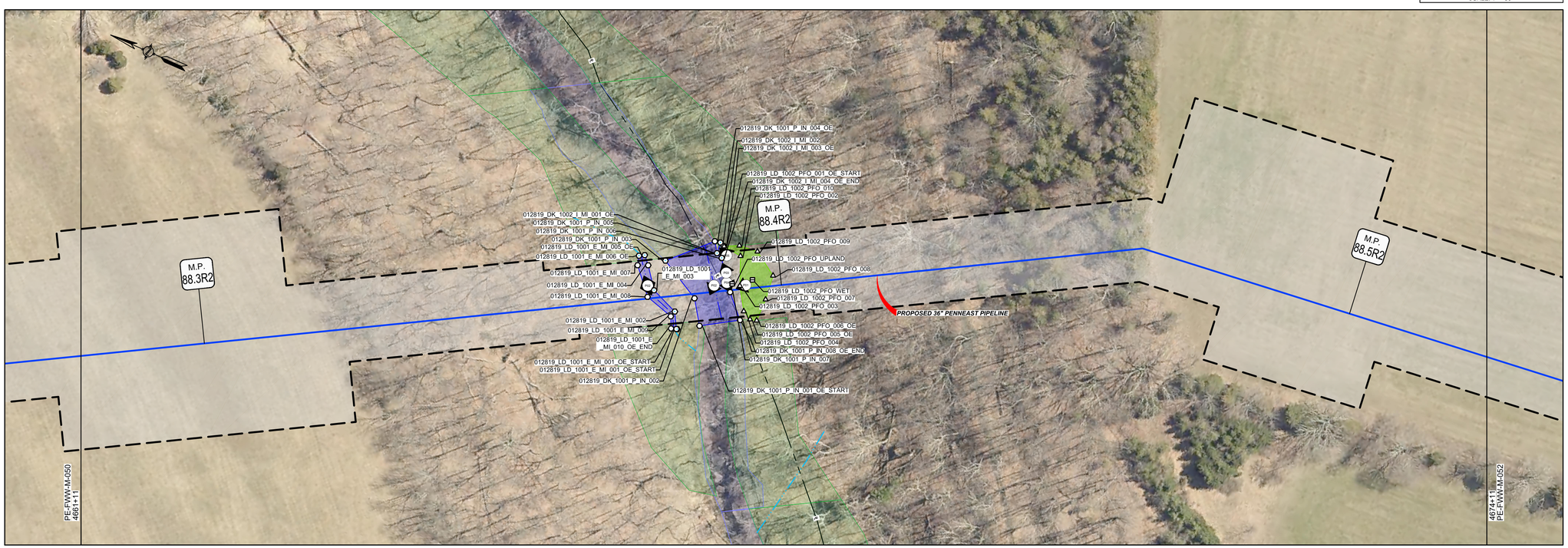

LEGEND

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND LOD IMPACT
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- EXISTING TREE
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- WETLAND FLAG NO — WETLAND FLAG
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- SOW_FLAG_NO — STATE OPEN WATER FLAG
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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
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APPROVALS

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

CLIENT APPROVAL — DATE 7/2019

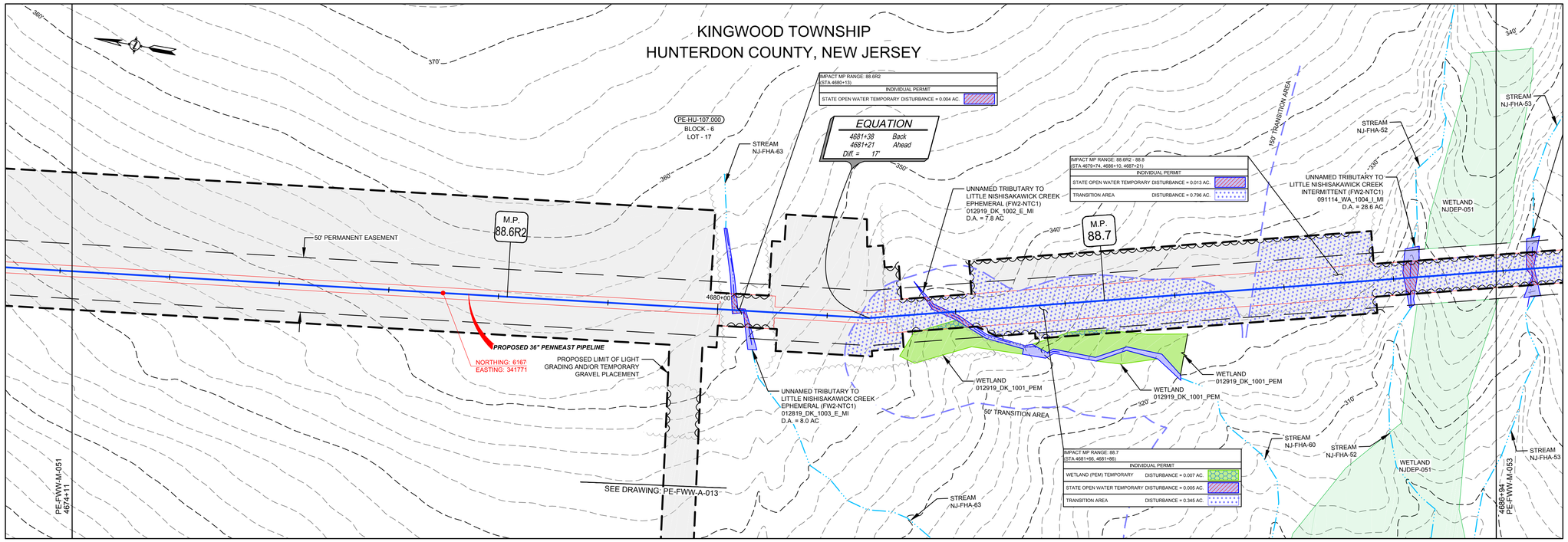
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 88.3R2 - MP 88.5R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-051	0



GRAPHIC SCALE

50' 25' 0 50'

SCALE: 1" = 50'

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DWG. NO.	TITLE
000-03-03-067.2	* ACCESS ROAD DETAIL

REVISIONS

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APPROVALS

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

CLIENT APPROVAL — DATE 7/2019

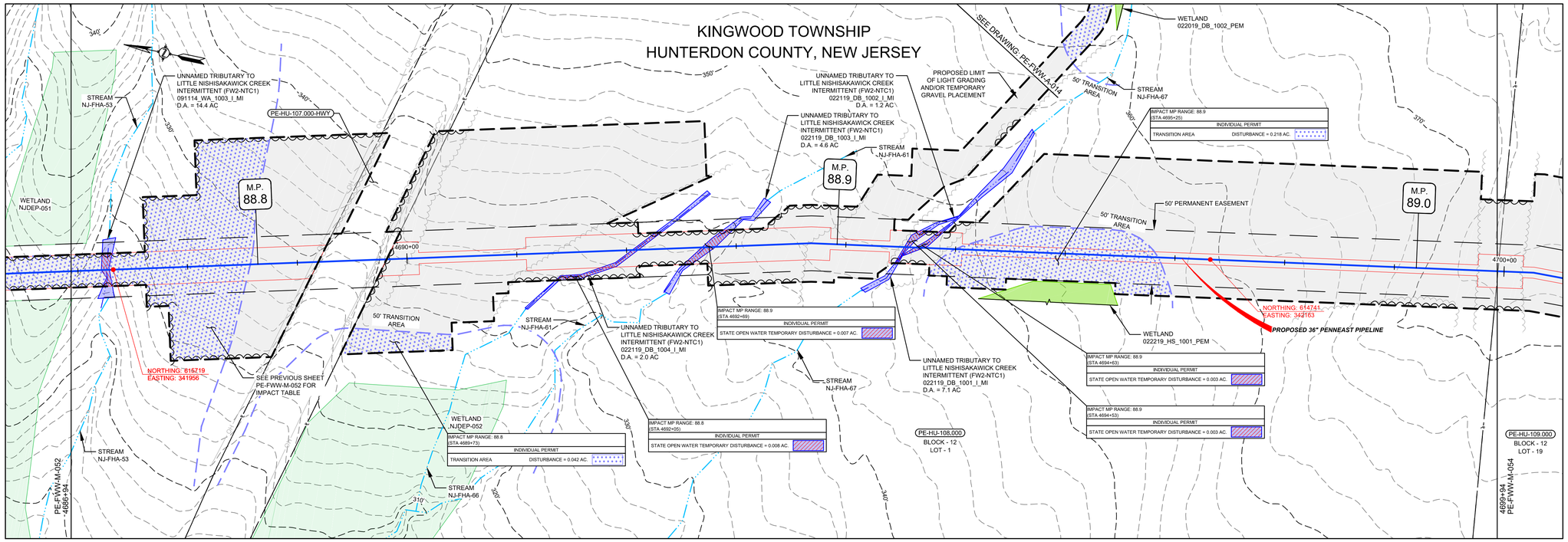
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 88.5R2 - MP 88.8

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-052	0



GRAPHIC SCALE
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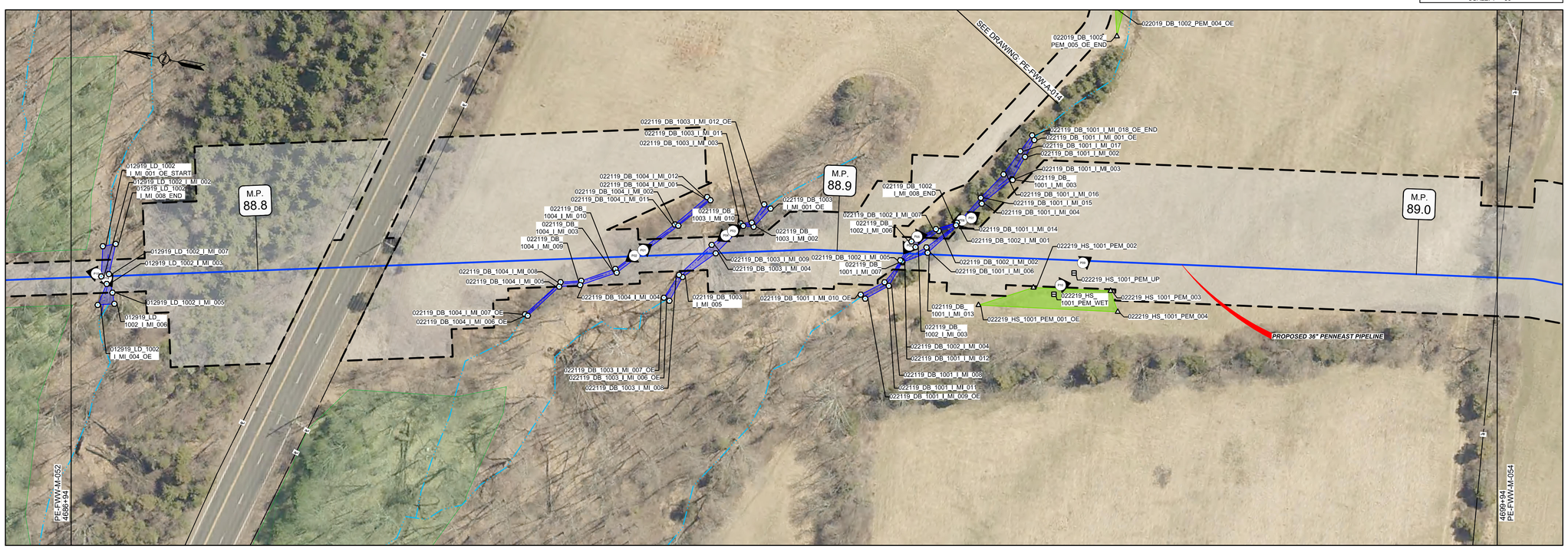

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REVISIONS

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P.M. APPROVAL: MW	7/2019

CLIENT APPROVAL — DATE 7/2019

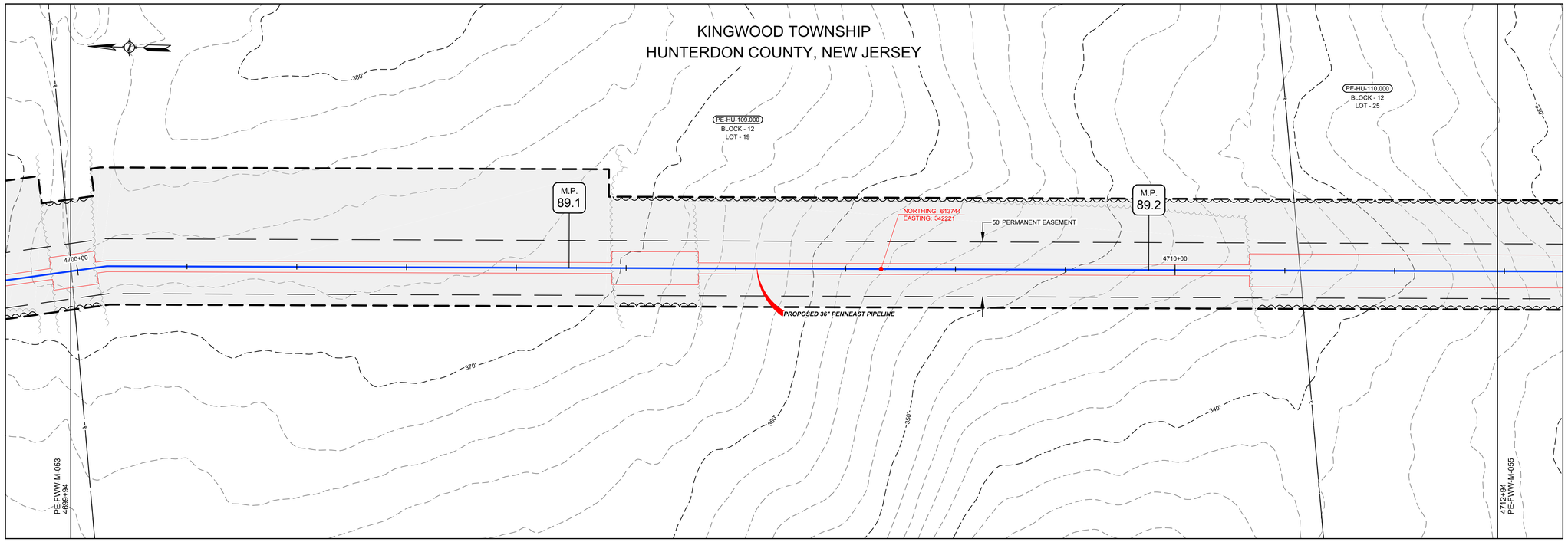
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 88.8 - MP 89.0

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-053	0



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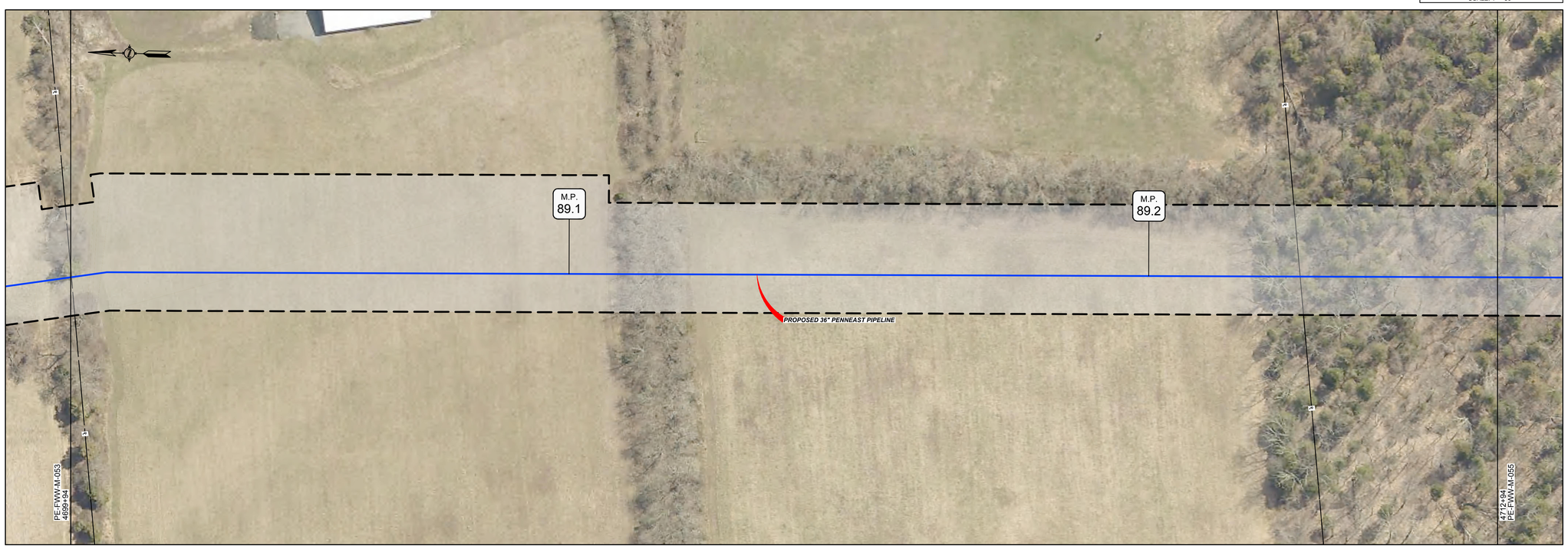

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CLIENT APPROVAL — DATE 7/2019

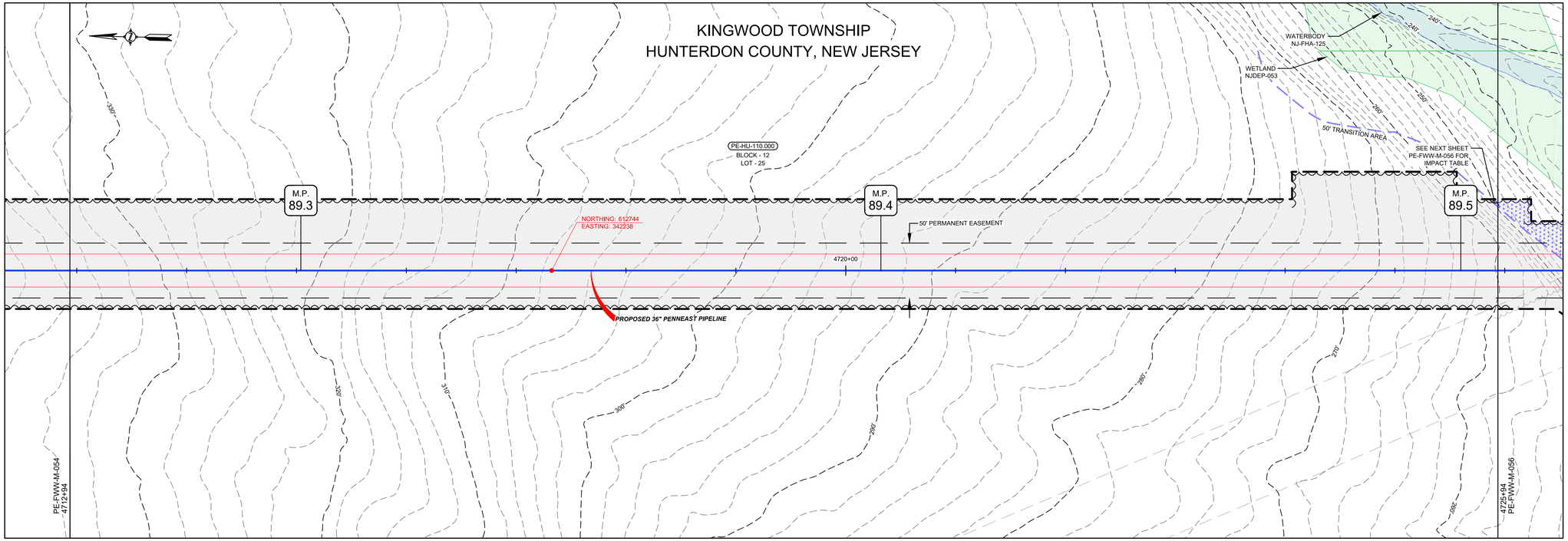
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 89.0 - MP 89.3

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-054	0



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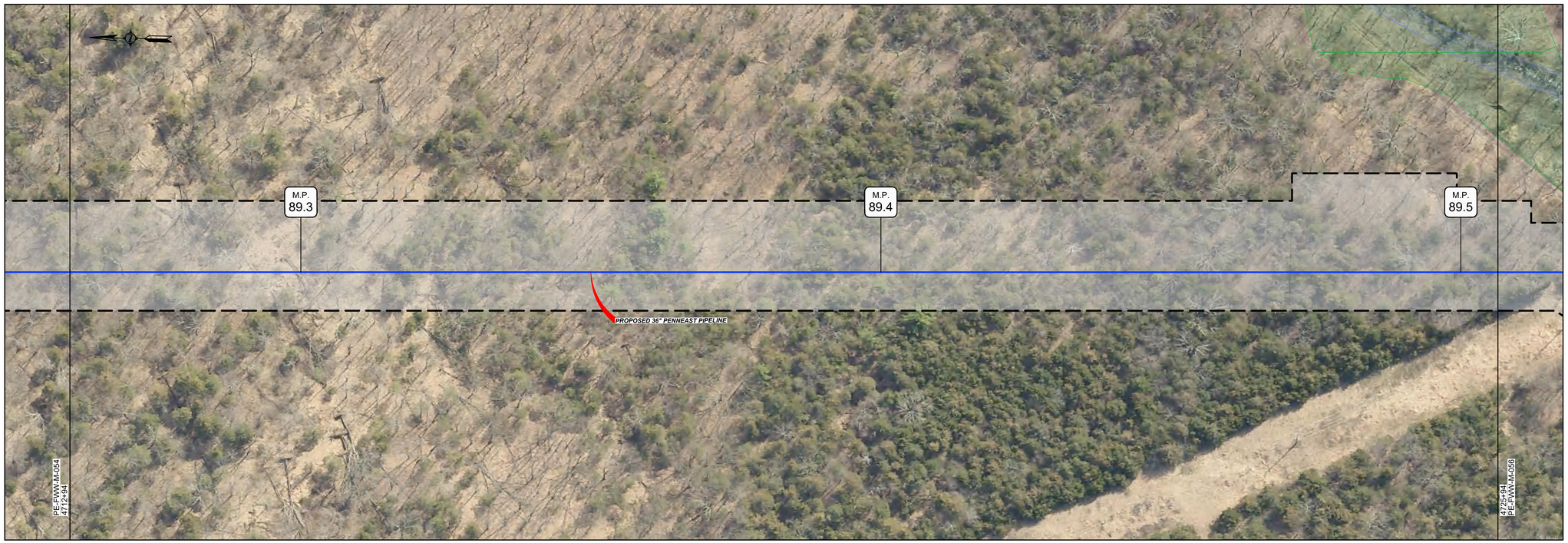

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CLIENT APPROVAL

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PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
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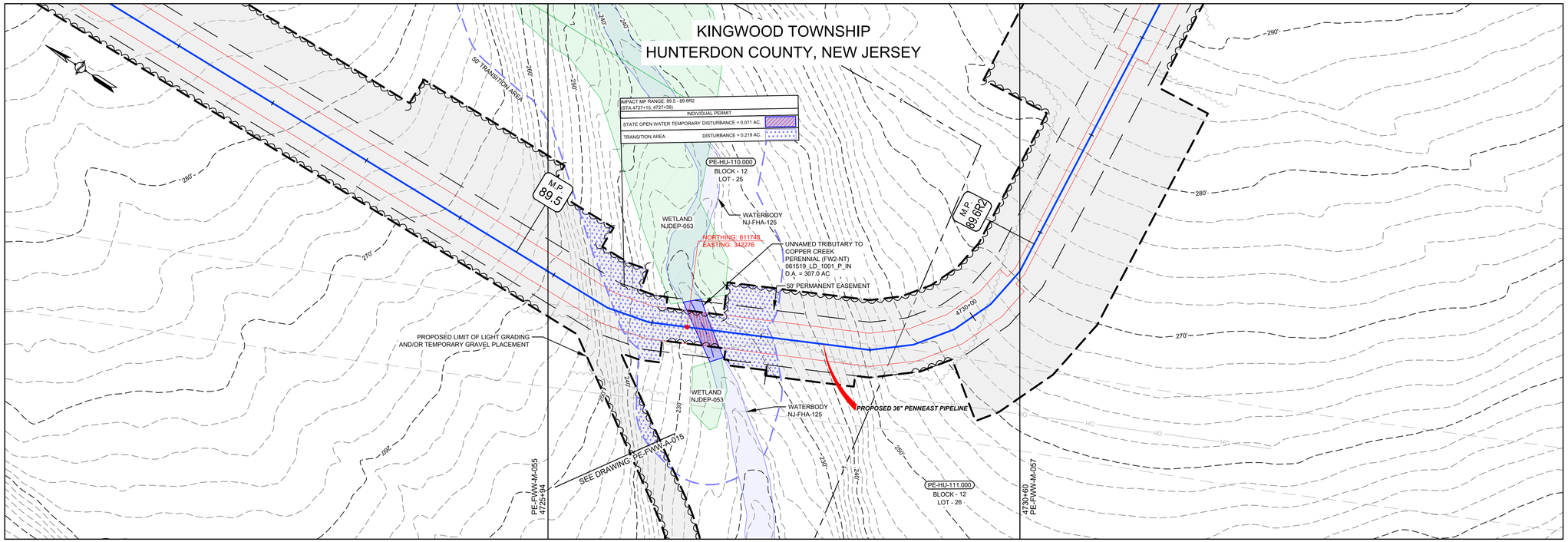
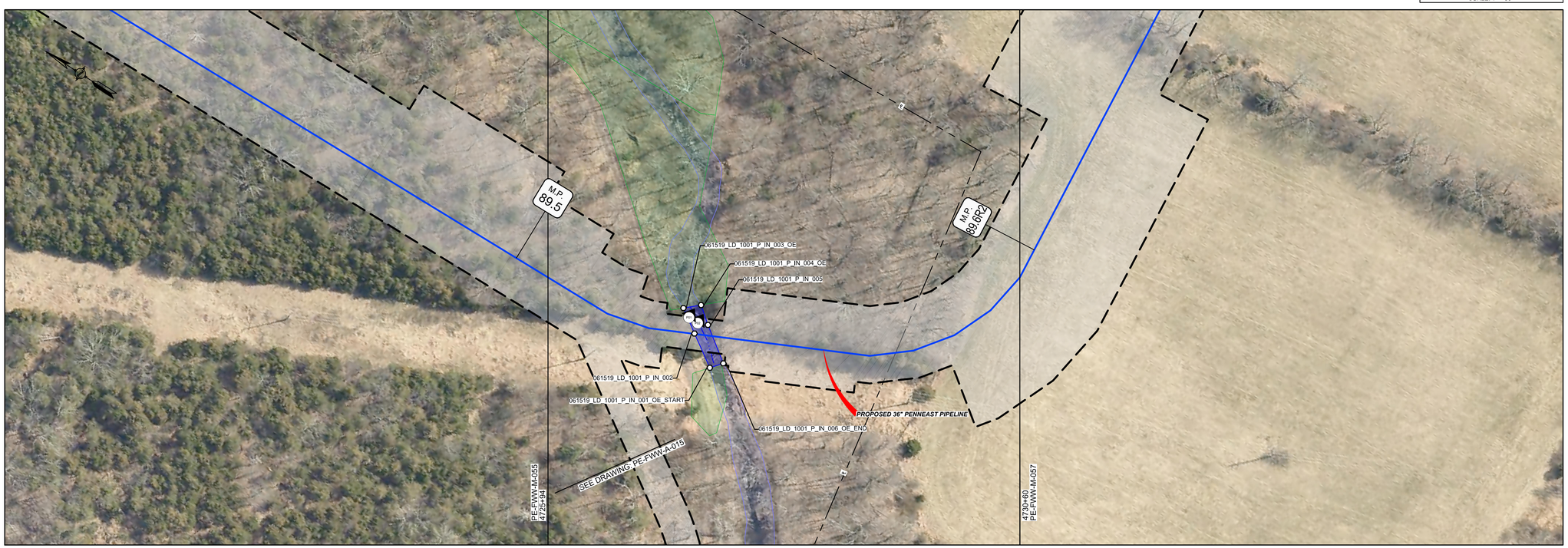
MP 89.3 - MP 89.5

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-055	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
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- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY LOD IMPACT
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- TRANSITION AREA
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- LB-HU-A001.000 — BLOCK - 1, LOT - 10.00 — PARCEL ID WITH BLOCK AND LOT NUMBER
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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

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MICHAEL J. DENICHILO
PROFESSIONAL ENGINEER
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REFERENCE DRAWINGS

DWG. NO.	TITLE
000-03-03-068	* 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
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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

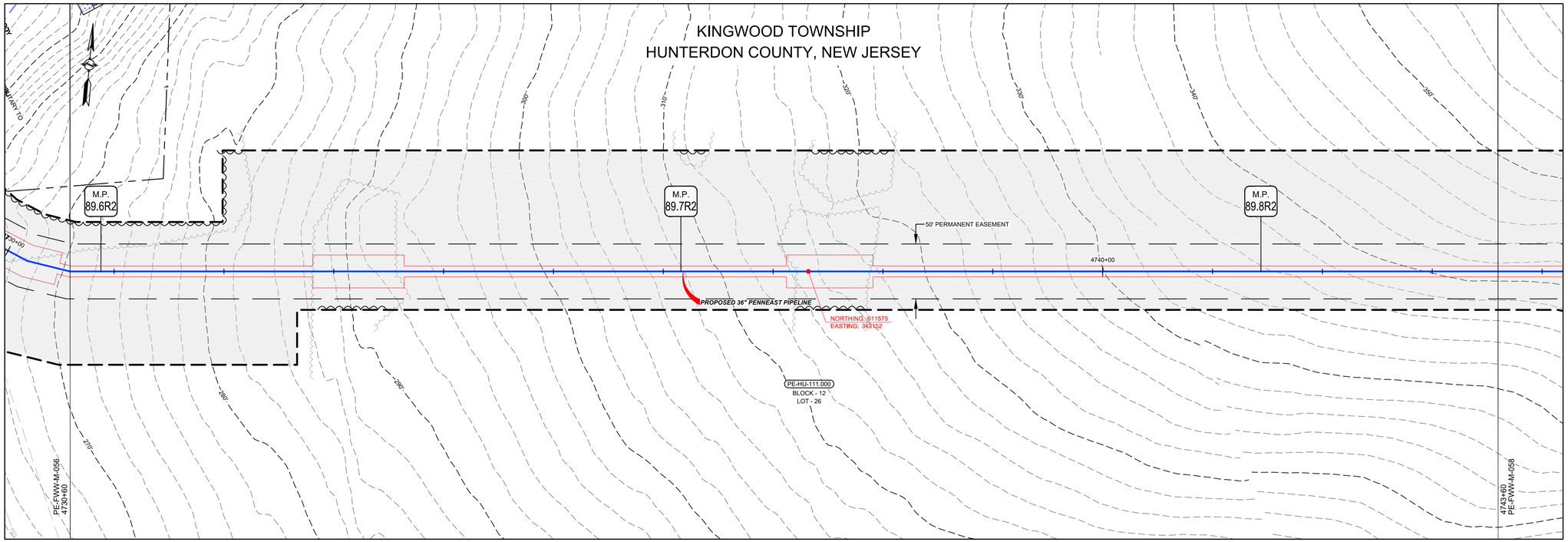
PREPARED FOR
PennEast PIPELINE

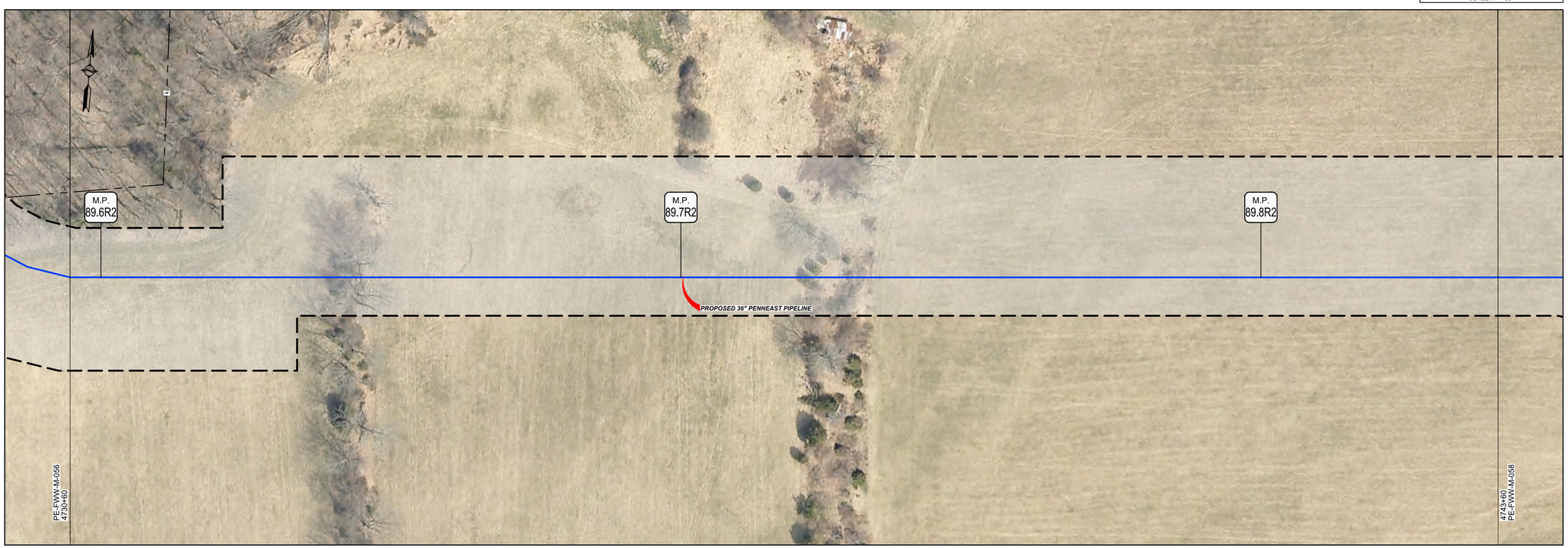
PREPARED BY
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 89.5 - MP 89.6R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-056	0





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ENG. APPROVAL	DATE
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P.M. APPROVAL	DATE
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CLIENT APPROVAL

DATE

7/2019

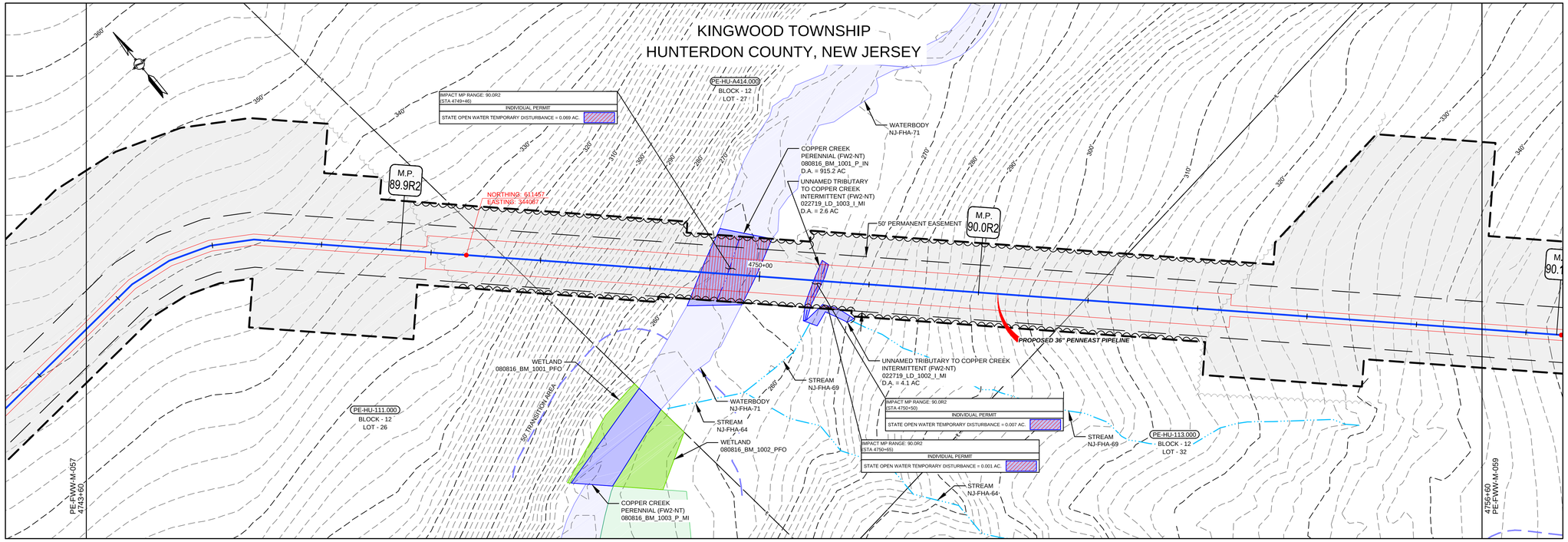
PREPARED FOR
PennEast PIPELINE

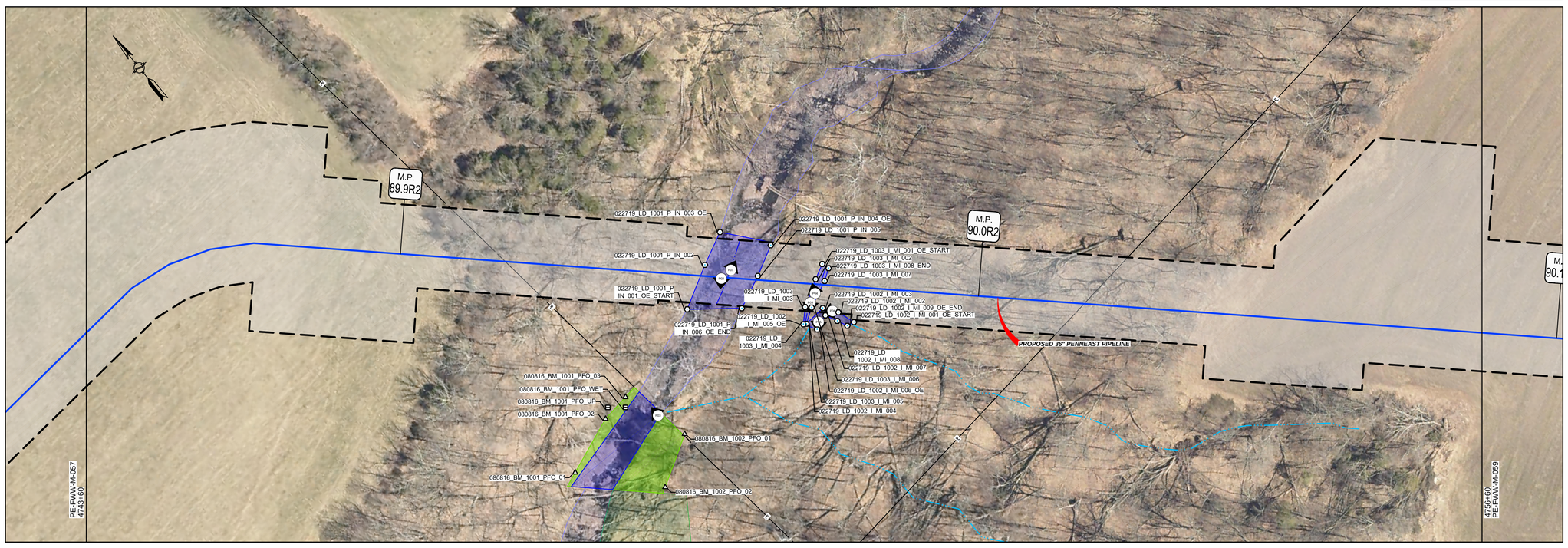
PREPARED BY
MOTT MACDONALD
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 89.6R2 - MP 89.8R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-057	0





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REVISIONS

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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 7/2019

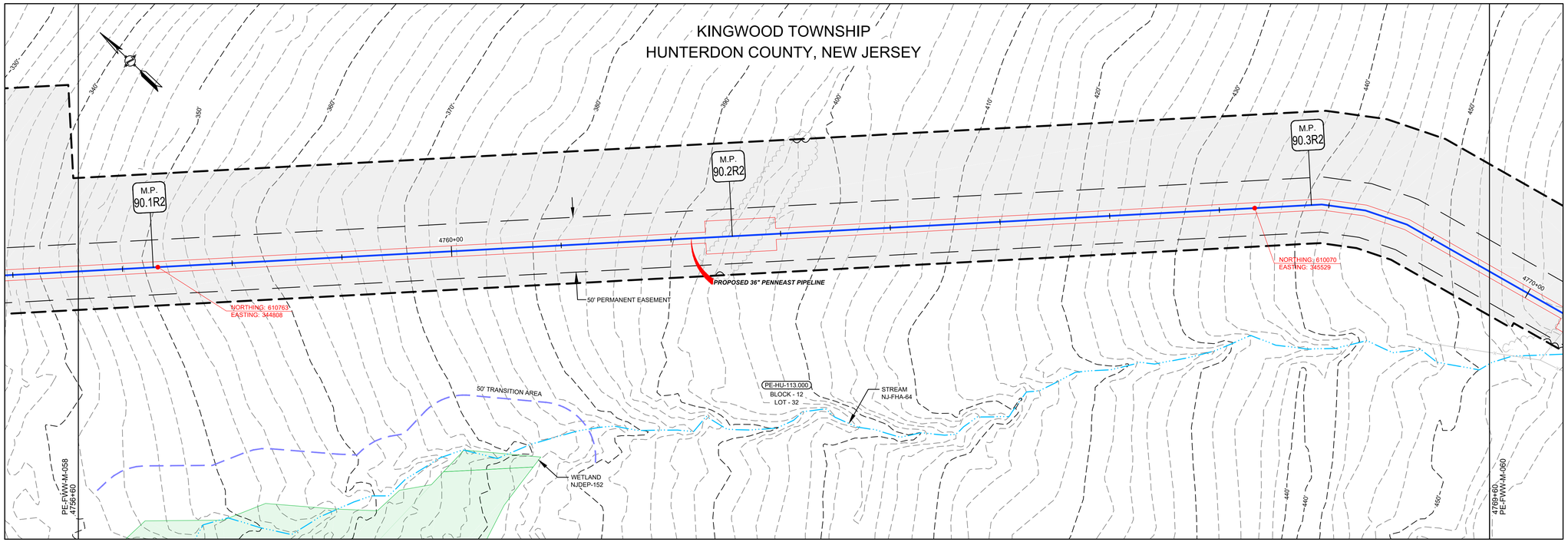
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 89.8R2 - MP 90.1R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-058	0



LEGEND

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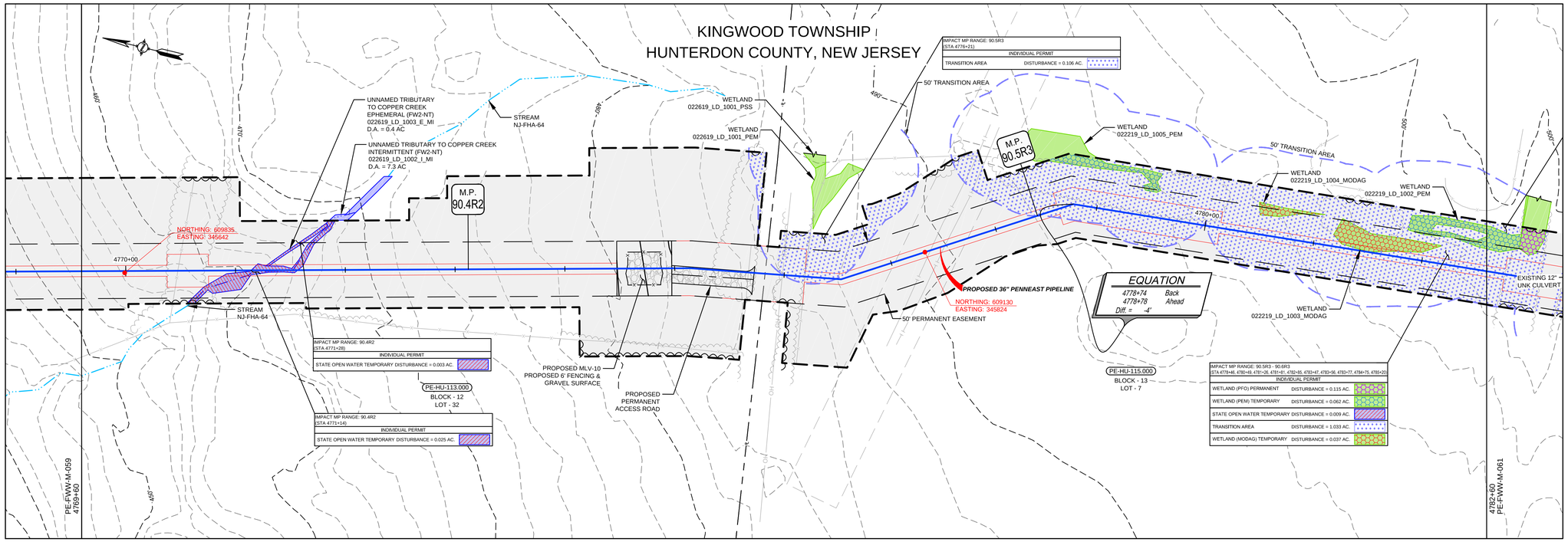
PREPARED FOR PennEast PIPELINE

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

PENNEAST PIPELINE PROJECT

PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 90.1R2 - MP 90.3R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-059	0



GRAPHIC SCALE
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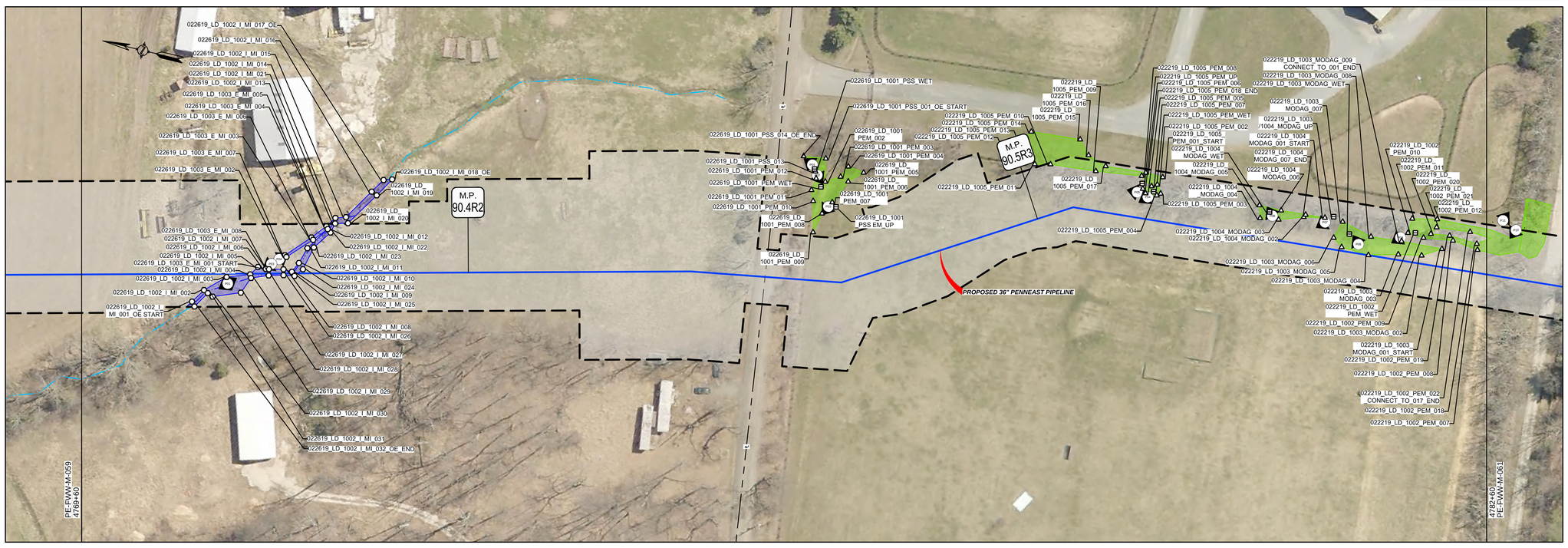

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PENNEAST PIPELINE
FRESHWATER WETLAND PERMIT PLAN
MP 90.3R2 - MP 90.6R2

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-FWW-M-060	0