



**U.S. ARMY CORPS OF ENGINEERS
REGULATORY PROGRAM
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
NAVIGABLE WATERS PROTECTION RULE**

I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): 9/22/2020
 ORM Number: NAP-2020-00477-97
 Associated JDs: N/A
 Review Area Location¹: State/Territory: NJ City: Pennsville County/Parish/Borough: Salem County
 Center Coordinates of Review Area: Latitude 39.678998 Longitude -75.503621

II. FINDINGS

A. Summary: Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding sections/tables and summarize data sources.

- The review area is comprised entirely of dry land (i.e., there are no waters or water features, including wetlands, of any kind in the entire review area). Rationale: N/A
- There are “navigable waters of the United States” within Rivers and Harbors Act jurisdiction within the review area (complete table in Section II.B).
- There are “waters of the United States” within Clean Water Act jurisdiction within the review area (complete appropriate tables in Section II.C).
- There are waters or water features excluded from Clean Water Act jurisdiction within the review area (complete table in Section II.D).

B. Rivers and Harbors Act of 1899 Section 10 (§ 10)²

Iso§ 10 Name	§ 10 Size		§ 10 Criteria	Rationale for § 10 Determination
Salem Canal (Area “WAK”)	0.096	acre(s)	RHA Non-tidal water is on the district's Section 10 waters list	N/A.
Tidal ditch (Areas “WA”, “WB” and “WP”)	0.217	acre(s)	RHA Tidal water is subject to the ebb and flow of the tide	N/A.

C. Clean Water Act Section 404

Territorial Seas and Traditional Navigable Waters ((a)(1) waters): ³				
(a)(1) Name	(a)(1) Size		(a)(1) Criteria	Rationale for (a)(1) Determination
N/A.	N/A.	N/A.	N/A.	N/A.

Tributaries ((a)(2) waters):				
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination
N/A.	N/A.	N/A.	N/A.	N/A.

¹ Map(s)/figure(s) are attached to the AJD provided to the requestor.

² If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Rivers and Harbors Act Section 10 navigable waters list, do NOT use this document to make the determination. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Rivers and Harbors Act Section 10 navigability determination.

³ A stand-alone TNW determination is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD Form.



**U.S. ARMY CORPS OF ENGINEERS
REGULATORY PROGRAM
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
NAVIGABLE WATERS PROTECTION RULE**

Lakes and ponds, and impoundments of jurisdictional waters ((a)(3) waters):				
(a)(3) Name	(a)(3) Size	(a)(3) Criteria	Rationale for (a)(3) Determination	
N/A.	N/A.	N/A.	N/A.	N/A.

Adjacent wetlands ((a)(4) waters):				
(a)(4) Name	(a)(4) Size	(a)(4) Criteria	Rationale for (a)(4) Determination	
N/A.	N/A.	N/A.	N/A.	N/A.

D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12)): ⁴				
Exclusion Name	Exclusion Size	Exclusion ⁵	Rationale for Exclusion Determination	
Area “WU”	0.703 acre(s)	(b)(1) Non-adjacent wetland.	Isolated wetland (PFO). Depressional feature. See additional discussion, below.	
Area “WAA”	0.124 acre(s)	(b)(1) Non-adjacent wetland.	Isolated wetland (PSS/PFO). See additional discussion, below.	
Area “WS”	1.244 acre(s)	(b)(1) Non-adjacent wetland.	Isolated wetland (PFO). See additional discussion, below.	
Area “WT”	0.441 acre(s)	(b)(1) Non-adjacent wetland.	Isolated wetland (PFO). See additional discussion, below.	
Area “WV”	1.697 acre(s)	(b)(1) Non-adjacent wetland.	Isolated wetland (PFO). Depressional feature. See additional discussion, below.	

III. SUPPORTING INFORMATION

A. Select/enter all resources that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.

Information submitted by, or on behalf of, the applicant/consultant: “Wetlands & Waters Location Plan” dated November 20, 2019, revised May 17, 2020. “Application for Department of the Army Jurisdictional Determination for D2 Deepwater Redevelopment Block 202, Lot 2; Block 203, Lot 8; Block 301, Lots 6, 12, 13, 13.01, 15 and 15.01; Township of Pennsville, Salem County, New Jersey” dated June 18, 2020.

This information is sufficient for purposes of this AJD.

Rationale: N/A

- Data sheets prepared by the Corps: N/A
- Photographs: Aerial and Other: “Application for Department of the Army Jurisdictional Determination for D2 Deepwater Redevelopment, Attachment C”, Photographs taken by Marathon in May and June 2019. “Appendix A: Aerial Photographs” 1931 to 2017.
- Corps site visit(s) conducted on: N/A
- Previous Jurisdictional Determinations (AJDs or PJDs): N/A
- Antecedent Precipitation Tool: provide detailed discussion in Section III.B.
- USDA NRCS Soil Survey: SSURGO 2008, NRCS; 2017 Orthophotography, NJ Geographic Info. Network
- USFWS NWI maps: N/A
- USGS topographic maps: USGS 7.5-Min. Topographic Quadrangle, Pennsgrove, NJ-DE. n/d

⁴ Some excluded waters, such as (b)(2) and (b)(4), may not be specifically identified on the AJD form unless a requestor specifically asks a Corps district to do so. Corps districts may, in case-by-case instances, choose to identify some or all of these waters within the review area.

⁵ Because of the broad nature of the (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion, four sub-categories of (b)(1) exclusions were administratively created for the purposes of the AJD Form. These four sub-categories are not new exclusions, but are simply administrative distinctions and remain (b)(1) exclusions as defined by the NWPR.



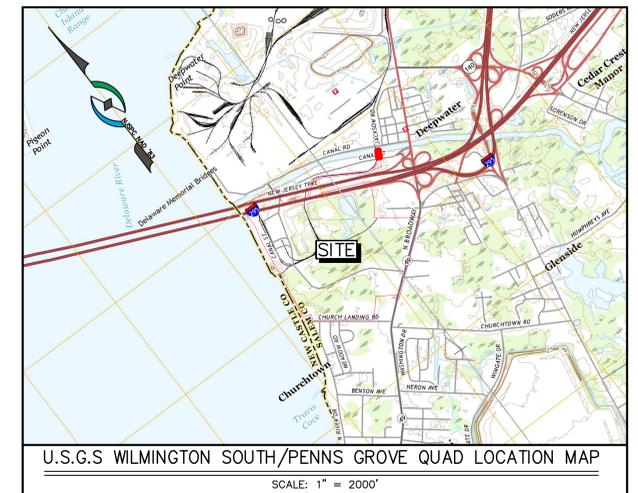
**U.S. ARMY CORPS OF ENGINEERS
REGULATORY PROGRAM
APPROVED JURISDICTIONAL DETERMINATION FORM (INTERIM)
NAVIGABLE WATERS PROTECTION RULE**

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information
USGS Sources	N/A.
USDA Sources	N/A.
NOAA Sources	N/A.
USACE Sources	N/A.
State/Local/Tribal Sources	DLUR NJDEP, "Freshwater Wetlands Letter of Interpretation: Line Verification", May 26, 2020
Other Sources	N/A.

B. Typical year assessment(s): N/A or provide typical year assessment for each relevant data source used to support the conclusions in the AJD.

C. Additional comments to support AJD: The Salem Canal and the Tidal Ditch are the only (a)(1) waters within the area of review. The Delaware River is not within the area of review but is subject to the ebb and flow of the tide and would be considered in determining the jurisdiction of wetlands within the area of review. All of the wetlands above are excluded from jurisdiction – they are all geographically and hydrologically isolated wetlands which do not meet the definitions of an (a)(4) water. These aquatic features are located at a distance from any (a)(1)-(a)(3) waters and would not be subject to inundation by flooding in a typical year. Their separation from (a)(1)-(a)(3) waters is not only due to natural features (e.g. berm, bank, dune). Based on this information, this office has determined that these wetlands are excluded from jurisdiction under the Clean Water Act. Other waters/water features, not mentioned above, within the review area, are assumed by the NJDEP. This determination was provided to the applicant in a letter from this office dated August 28, 2020.



GENERAL NOTES

1. THE SUBJECT PROPERTY IS KNOWN AS BLOCK 202, LOT 2; BLOCK 203, LOT 8; AND BLOCK 301, LOTS 6, 12, 13, 13.01, 15, AND 15.01 AS SHOWN ON THE OFFICIAL TAX MAP (SHEETS 2 AND 3) OF THE TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY.
2. THE SUBJECT PROPERTY CONTAINS APPROXIMATELY 282.01 ACRES EXCLUDING BLOCK 301, LOTS 13.01 AND 15.01 (APPROXIMATELY 77.42 ACRES TOTAL), WHICH ARE RIPARIAN GRANTS IN THE DELAWARE RIVER.
3. HORIZONTAL DATUM IS IN FEET AND IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 1983. VERTICAL DATUM IS IN FEET AND IS REFERENCED TO NAVD 1988.
4. PROPERTY BOUNDARIES, EASEMENT INFORMATION, AND WETLANDS/WATERS BOUNDARIES SHOWN HEREON WERE TAKEN FROM THE PLAN ENTITLED, "WETLANDS SURVEY OF THE FORMER ATLANTIC CITY ELECTRIC COMPANY DEEPWATER GENERATING STATION, PREPARED FOR D2 ORGANIZATION"; PREPARED BY GUY M. DE FABRITES, PLS, PP, FRAINGER ENGINEERING, PA; DATED AUGUST 21, 2019; CONSISTING OF 15 SHEETS.
5. TIDAL DATUMS SHOWN BELOW (NAVD 1988) WERE OBTAINED FROM THE 853-8231 DEEPWATER GENERATING CO. NJ TIDAL BENCHMARK STATION AND WERE PROVIDED ON THE ABOVE REFERENCED SURVEY BY FRAINGER ENGINEERING, PA:
 SPRING HIGH WATER, OR MEAN HIGHER HIGH WATER (MHHW) = 3.19 FEET.
 MEAN HIGH WATER (MHW) = 2.80 FEET.
 MEAN TIDE LEVEL (MTL) = 0.01 FEET.
 MEAN LOW WATER (MLW) = -2.78 FEET.
 MEAN LOWER LOW WATER (MLLW) = -2.95 FEET.
6. BOUNDARIES OF WETLANDS / WATERS SHOWN HEREON WERE FIELD DELINEATED BY MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IN MAY, JUNE, AND JULY 2019 AND SURVEYED BY FRAINGER ENGINEERING, PA.
7. BOUNDARIES OF WETLANDS / WATERS SHOWN HEREON ARE SUBJECT TO VERIFICATION BY THE NJDEP AND THE USACE.
8. AREA OF NON-TIDAL WETLANDS WITHIN THE SUBJECT PROPERTY = 56.448 ACRES.
9. AREA OF NON-TIDAL WATERS WITHIN THE SUBJECT PROPERTY = 0.096 ACRES.
10. AREA OF TIDAL WATERS WITHIN THE SUBJECT PROPERTY = 74.402 ACRES (INCLUDES DELAWARE RIVER AND SALEM CANAL).
11. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN HEREON BASED ON AERIAL PHOTOGRAPHY AND MAPPING PREPARED BY NOR EAST MAPPING, INC., DATE OF PHOTOGRAPHY APRIL 10, 2019.
12. EXISTING CULVERTS AND INVERT ELEVATIONS SHOWN HEREON WERE OBTAINED VIA FIELD SURVEY BY MARATHON ON OCTOBER 1, 2019.
13. UPPER WETLANDS BOUNDARY SHOWN HEREON WAS DIGITIZED FROM NJDEP WETLANDS ACT OF 1970 MAPPING (SHEETS 308-1758, 308-1764, 301-1758, AND 301-1764).
14. AERIAL BACKGROUND SHOWN HEREON IS FROM 2015 AERIAL PHOTOGRAPHS AVAILABLE FROM THE NEW JERSEY GEOGRAPHIC INFORMATION NETWORK.
15. THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONES AE (BASE FLOOD ELEVATION 8 AND 9 FEET NAVD 1988) AND VE (BASE FLOOD ELEVATION 11 FEET NAVD 1988 WITH WAVE ACTION) ACCORDING TO FEMA FLOOD INSURANCE RATE MAPS 34033C0042C AND 34033C0061C, EFFECTIVE JUNE 16, 2016.
16. LIMITS OF HISTORICAL FILL SHOWN HEREON WERE DIGITIZED FROM "FIGURE 14, SITE-WIDE SOIL SAMPLE ANALYTICAL RESULTS, AOC 56" IN THE REPORT ENTITLED "REMEDIATION INVESTIGATION REPORT, DEEPWATER ENERGY CENTER, PENNSVILLE TOWNSHIP, SALEM COUNTY, NEW JERSEY"; PREPARED BY ARCADIS; DATED APRIL 2018.

LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT OR INTERNAL PROPERTY LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- UTILITY EASEMENT AREA LINE
- WETLANDS/WATERS BOUNDARY LINE
- LIMITS OF HISTORIC FILL
- MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
- UPPER WETLANDS BOUNDARY
- WETLANDS DELINEATION DATA POINT
- WETLANDS/WATERS FLAG
- WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
- WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.

CALPINE DEEPWATER
 BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01
 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY

OVERALL WETLANDS & WATERS LOCATION PLAN

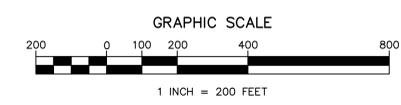
DEEPWATER INVESTMENT GROUP, LLC
 34 E. GERMANTOWN PIKE, SUITE 203
 NORRISTOWN, PENNSYLVANIA 19401

MARATHON
 Engineering & Environmental Services
 Swedesboro Office
 553 Beckett Road, Suite 608, Swedesboro, NJ 08085
 ph (856) 241-9705 fax (856) 241-9709
 Certificate of Authorization #24GA27955700

STEVEN F. MERVINE, P.L.S.
 PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 24GS03074300

05/17/2020
 P22.001.01

SCALE 1" = 200'
 SHEET 1 OF 14
 DRAWING NO. **E1700**



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

DRAWING ON NON-RECYCLED PAPER. USE RECYCLED PAPER IF AVAILABLE. MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. 05/17/2020

MATCH LINE SEE DRAWING E1702



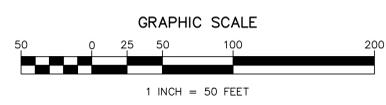
BLOCK 301 LOT 13.01
(NO ADDRESS FOUND)
(RIPARIAN)

MATCH LINE SEE DRAWING E1704

MATCH LINE SEE DRAWING E1704



LEGEND	
	PROPERTY BOUNDARY LINE
	ADJACENT OR INTERNAL PROPERTY LINE
	EXISTING MAJOR CONTOUR LINE
	EXISTING MINOR CONTOUR LINE
	EXISTING TREE LINE
	EXISTING BRUSH LINE
	UTILITY EASEMENT AREA LINE
	WETLANDS/WATERS BOUNDARY LINE
	LIMITS OF HISTORIC FILL
	MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
	UPPER WETLANDS BOUNDARY
	WETLANDS DELINEATION DATA POINT
	WETLANDS/WATERS FLAG
	WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
	WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
CALPINE DEEPWATER				
BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01 TOWNSHIP OF PENNSYLVANIA, SALEM COUNTY, NEW JERSEY				
WETLANDS & WATERS LOCATION PLAN				
DEEPWATER INVESTMENT GROUP, LLC				
34 E. GERMANTOWN PIKE, SUITE 203 NORRISTOWN, PENNSYLVANIA 19401				
STEVEN F. MERVINE, P.L.S.				
PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 246303074300				
				
05/17/2020				
D2D 001.01				
<small>ALL DOCUMENTS PREPARED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. ARE FOR THE CLIENT'S USE ONLY. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED TO MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. AND FOR THE RESULTS OF ANY INVESTIGATION OR ANALYSIS CONDUCTED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. WITHOUT WARRANTY OF ANY KIND. MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE, LOSS, OR INJURY TO PERSONS OR PROPERTY, INCLUDING REAL ESTATE, ARISING FROM THE USE OF ANY INFORMATION PROVIDED BY MARATHON ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FOR ANY PURPOSE.</small>			SCALE 1" = 50'	APPROVED SFM 2 OF 14
			E1701	

MATCH LINE SEE DRAWING E1701

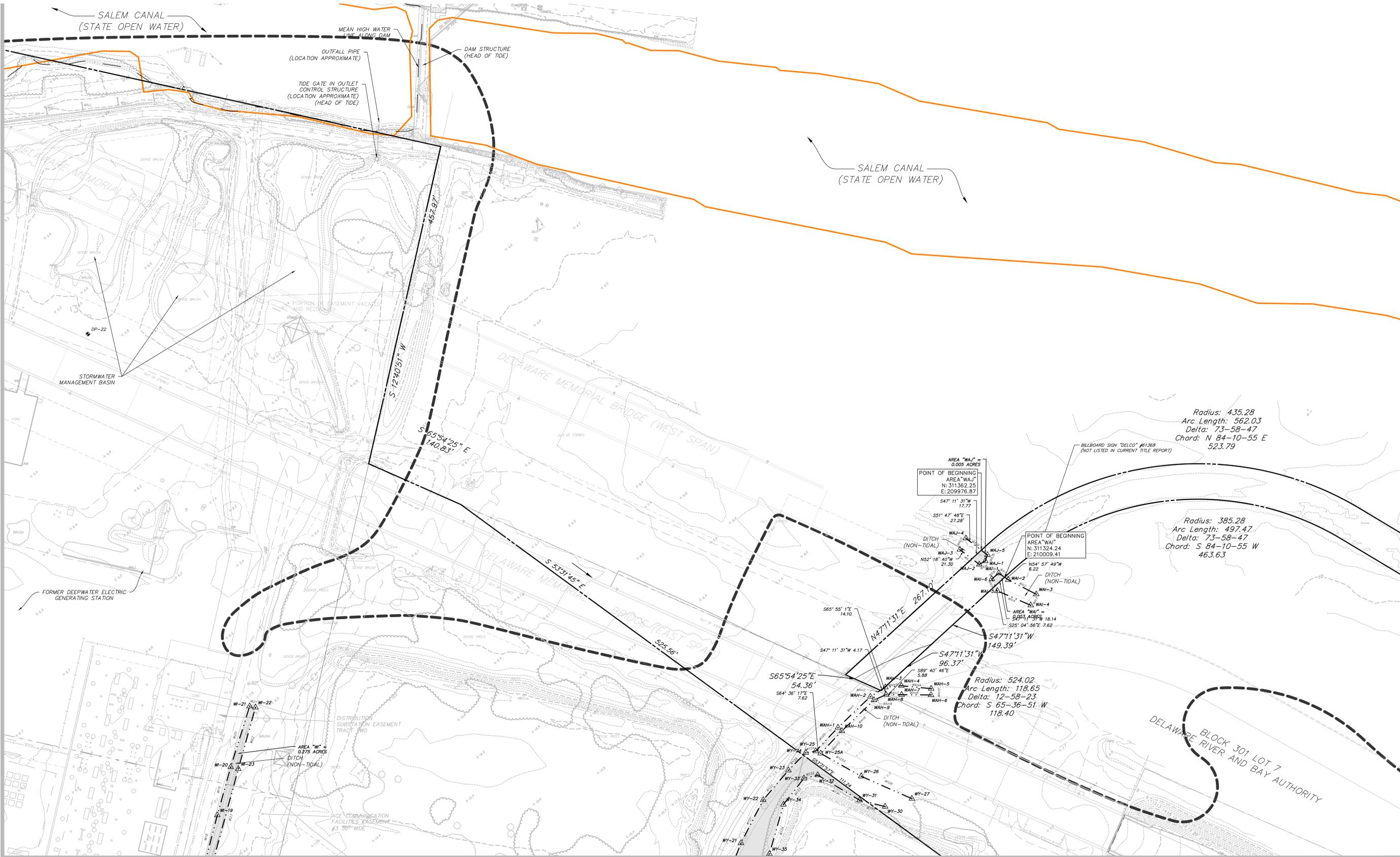
MATCH LINE SEE DRAWING E1701

MATCH LINE SEE DRAWING E1705

MATCH LINE SEE DRAWING E1703

MATCH LINE SEE DRAWING E1703

MATCH LINE SEE DRAWING E1705



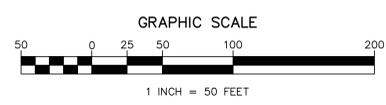
Radius: 435.28
 Arc Length: 562.03
 Delta: 73-58-47
 Chord: N 84-10-55 E
 523.79

Radius: 385.28
 Arc Length: 497.47
 Delta: 73-58-47
 Chord: S 84-10-55 W
 463.63

Radius: 524.02
 Arc Length: 118.65
 Delta: 12-58-23
 Chord: S 65-36-51 W
 118.40

LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT OR INTERNAL PROPERTY LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- UTILITY EASEMENT AREA LINE
- WETLANDS/WATERS BOUNDARY LINE
- LIMITS OF HISTORIC FILL
- MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
- UPPER WETLANDS BOUNDARY
- WETLANDS DELINEATION DATA POINT
- WETLANDS/WATERS FLAG
- WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
- WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
CALPINE DEEPWATER				
BLOCK 202, LOT 2; BLOCK 301, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY				
WETLANDS & WATERS LOCATION PLAN			MARATHON Engineering & Environmental Services Swedesboro Office 553 Beckett Road, Suite 608, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700	
DEEPWATER INVESTMENT GROUP, LLC				
34 E. GERMANTOWN PIKE, SUITE 203 NORRISTOWN, PENNSYLVANIA 19401			SCALE: 1" = 50' SHEET 3 OF 14 DRAWING NO. E1702	
STEVEN F. MERVINE, P.L.S. PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 24GS03074300 				
05/17/2020			P2D 001.01	

DRAWING NO. 24/2020/0101, LAST REVISION ON 05/17/2020

MATCH LINE SEE DRAWING E1702

MATCH LINE SEE DRAWING E1706

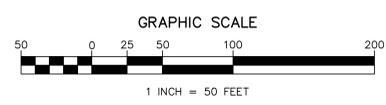
MATCH LINE SEE DRAWING E1706

DRAWING NO. 24/2020/0101, LAST REVISION ON 05/17/2020



LEGEND

	PROPERTY BOUNDARY LINE
	ADJACENT OR INTERNAL PROPERTY LINE
	EXISTING MAJOR CONTOUR LINE
	EXISTING MINOR CONTOUR LINE
	EXISTING TREE LINE
	EXISTING BRUSH LINE
	UTILITY EASEMENT AREA LINE
	WETLANDS/WATERS BOUNDARY LINE
	LIMITS OF HISTORIC FILL
	MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
	UPPER WETLANDS BOUNDARY
	WETLANDS DELINEATION DATA POINT
	WETLANDS/WATERS FLAG
	WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
	WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
CALPINE DEEPWATER				
BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY				
WETLANDS & WATERS LOCATION PLAN				
DEEPWATER INVESTMENT GROUP, LLC				
34 E. GERMANTOWN PIKE, SUITE 203 NORRISTOWN, PENNSYLVANIA 19401				
STEVEN F. MERVINE, P.L.S.				
PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 246503074300				
05/17/2020				
P2D 001.01				

MARATHON
Engineering & Environmental Services
Swedesboro Office
553 Beckett Road, Suite 608, Swedesboro, NJ 08065
ph (856) 241-9705 fax (856) 241-9709
Certificate of Authorization #24GA27995700

SCALE: 1" = 50'
APPROVED: AY
DRAWN BY: AY
SHEET: 4 OF 14
DRAWING NO.: **E1703**

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

BLOCK 301 LOT 13.01
(NO ADDRESS FOUND)
(RIPARIAN)

N 07°05'45" E
3785.61'

RIPARIAN GRANT

DELAWARE RIVER

MEAN HIGH WATER LINE
ALONG BULK HEAD

S10°02'35" W
3774.15'
(TIE LINE)

FORMER COAL
STOCKPILE AREA

FORMER DEEPWATER ELECTRIC
GENERATING STATION

DISTRIBUTION FACILITIES
EASEMENT #1 25' WIDE

DRAINAGE DITCH
(TIDAL)
AREA "WP" =
0.066 ACRES

DRAINAGE DITCH
(TIDAL)

AREA "WA" =
0.147 ACRES

HEAD OF TIDE
INV = 2.96

AREA "WB" =
0.004 ACRES

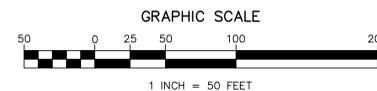
POINT OF BEGINNING
AREA "WP"
N: 309803.92
E: 207898.38

POINT OF BEGINNING
AREA "WA"
N: 309815.59
E: 208464.93

POINT OF BEGINNING
AREA "WB"
N: 309798.10
E: 208554.88

LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT OR INTERNAL PROPERTY LINE
- - - - - EXISTING MAJOR CONTOUR LINE
- - - - - EXISTING MINOR CONTOUR LINE
- - - - - EXISTING TREE LINE
- - - - - EXISTING BRUSH LINE
- - - - - UTILITY EASEMENT AREA LINE
- - - - - WETLANDS/WATERS BOUNDARY LINE
- - - - - LIMITS OF HISTORIC FILL
- - - - - MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
- - - - - UPPER WETLANDS BOUNDARY
- ▲ DP-1 WETLANDS DELINEATION DATA POINT
- ▲ WH-1 WETLANDS/WATERS FLAG
- WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
- WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
CALPINE DEEPWATER				
BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY				
WETLANDS & WATERS LOCATION PLAN				
DEEPWATER INVESTMENT GROUP, LLC				
34 E. GERMANTOWN PIKE, SUITE 203 NORRISTOWN, PENNSYLVANIA 19401				
STEVEN F. MERVINE, P.L.S.				
PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 246303074300				
05/17/2020				
P2D 001.01				
<p>MARATHON Engineering & Environmental Services Swedesboro Office 553 Beckett Road, Suite 608, Swedesboro, NJ 08065 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700</p>			<p>SCALE 1" = 50'</p> <p>DATE 05/17/2020</p> <p>SHEET 5 OF 14</p> <p>DRAWING NO. E1704</p>	

MATCH LINE SEE DRAWING E1704

MATCH LINE SEE DRAWING E1706

MATCH LINE SEE DRAWING E1704

MATCH LINE SEE DRAWING E1706

MATCH LINE SEE DRAWING E1704

MATCH LINE SEE DRAWING E1706

MATCH LINE SEE DRAWING E1704

MATCH LINE SEE DRAWING E1706

MATCH LINE SEE DRAWING E1704

MATCH LINE SEE DRAWING E1706

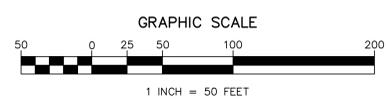
MATCH LINE SEE DRAWING E1704

MATCH LINE SEE DRAWING E1706

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.



- LEGEND**
- PROPERTY BOUNDARY LINE
 - ADJACENT OR INTERNAL PROPERTY LINE
 - EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - EXISTING TREE LINE
 - EXISTING BRUSH LINE
 - UTILITY EASEMENT AREA LINE
 - WETLANDS/WATERS BOUNDARY LINE
 - LIMITS OF HISTORIC FILL
 - MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
 - UPPER WETLANDS BOUNDARY
 - WETLANDS DELINEATION DATA POINT
 - WETLANDS/WATERS FLAG
 - WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
 - WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.

CALPINE DEEPWATER
 BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01
 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY

WETLANDS & WATERS LOCATION PLAN

DEEPWATER INVESTMENT GROUP, LLC
 34 E. GERMANTOWN PIKE, SUITE 203
 NORRISTOWN, PENNSYLVANIA 19401

STEVEN F. MERVINE, P.L.S.
 PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 24G503074300

05/17/2020
 P2D 001.01

MARATHON
 Engineering & Environmental Services
 Swedesboro Office
 553 Beckett Road, Suite 608, Swedesboro, NJ 08065
 ph (856) 241-9705 fax (856) 241-9709
 Certificate of Authorization #24GA27995700

SCALE: 1" = 50'
 SHEET 6 OF 14
 DRAWING NO. **E1705**

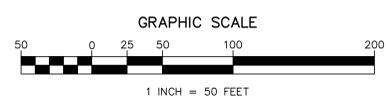
MATCH LINE SEE DRAWING E1705

MATCH LINE SEE DRAWING E1705



LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT OR INTERNAL PROPERTY LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- UTILITY EASEMENT AREA LINE
- WETLANDS/WATERS BOUNDARY LINE
- LIMITS OF HISTORIC FILL
- MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
- UPPER WETLANDS BOUNDARY
- WETLANDS DELINEATION DATA POINT
- WETLANDS/WATERS FLAG
- WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
- WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



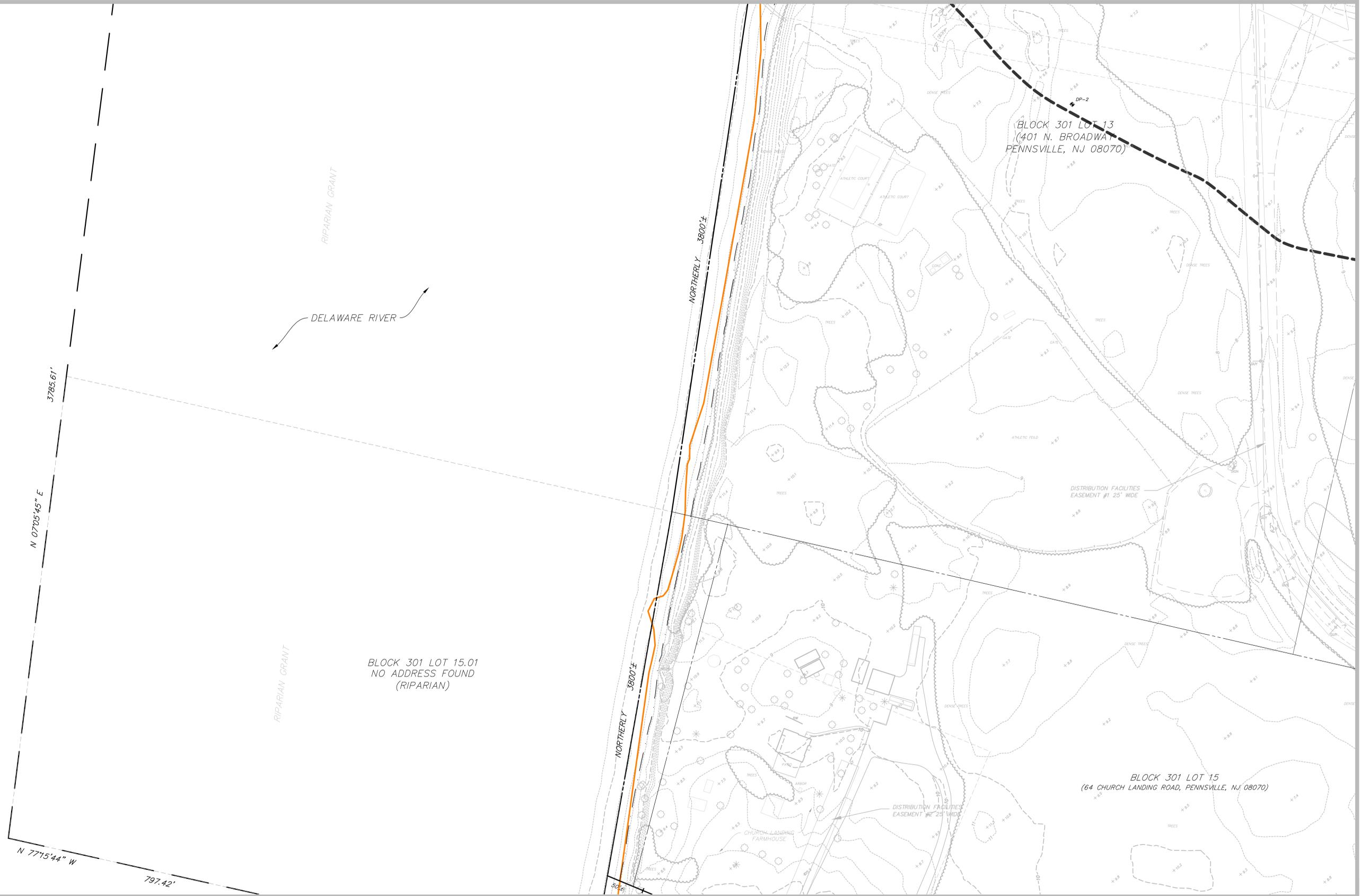
EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
CALPINE DEEPWATER				
BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY				
WETLANDS & WATERS LOCATION PLAN				
DEEPWATER INVESTMENT GROUP, LLC				
34 E. GERMANTOWN PIKE, SUITE 203 NORRISTOWN, PENNSYLVANIA 19401				
STEVEN F. MERVINE, P.L.S.				
PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 246303074300				
05/17/2020			P2D 001.01	

MARATHON
Engineering & Environmental Services
Swedesboro Office
553 Beckett Road, Suite 608, Swedesboro, NJ 08065
ph (856) 241-9705 fax (856) 241-9709
Certificate of Authorization #24GA27995700

SCALE	APPROVED
1" = 50'	SFM
DRAWN BY	7 OF 14
AY	

DRAWING NO.
E1706



3785.61'
 N 07°05'45" E
 N 77°15'44" W
 797.42'

RIPARIAN GRANT

DELAWARE RIVER

BLOCK 301 LOT 15.01
 NO ADDRESS FOUND
 (RIPARIAN)

BLOCK 301 LOT 13
 (401 N. BROADWAY
 PENNSVILLE, NJ 08070)

DISTRIBUTION FACILITIES
 EASEMENT #1 25' WIDE

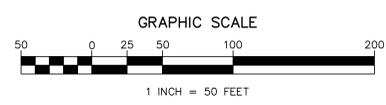
BLOCK 301 LOT 15
 (64 CHURCH LANDING ROAD, PENNSVILLE, NJ 08070)

DISTRIBUTION FACILITIES
 EASEMENT #2 25' WIDE

CHURCH LANDING
 FARMHOUSE

LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT OR INTERNAL PROPERTY LINE
- - - - - EXISTING MAJOR CONTOUR LINE
- - - - - EXISTING MINOR CONTOUR LINE
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- UTILITY EASEMENT AREA LINE
- WETLANDS/WATERS BOUNDARY LINE
- LIMITS OF HISTORIC FILL
- MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
- UPPER WETLANDS BOUNDARY
- DP-1 WETLANDS DELINEATION DATA POINT
- WH-1 WETLANDS/WATERS FLAG
- WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
- WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

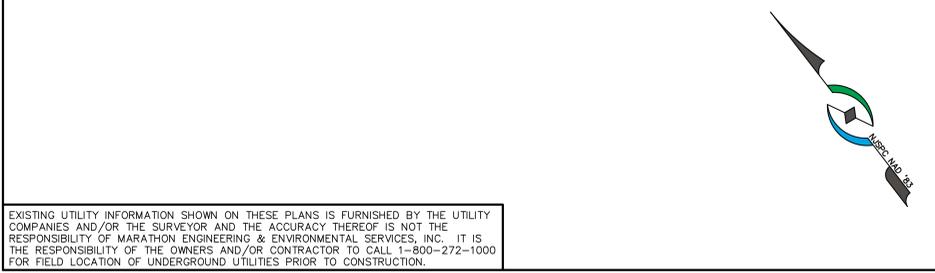
05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM												
11/20/2019	1	INITIAL SUBMISSION	AY	SFM												
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.												
CALPINE DEEPWATER			<p>MARATHON Engineering & Environmental Services Swedesboro Office 553 Beckett Road, Suite 608, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700</p>													
BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY																
WETLANDS & WATERS LOCATION PLAN																
DEEPWATER INVESTMENT GROUP, LLC																
34 E. GERMANTOWN PIKE, SUITE 203 NORRISTOWN, PENNSYLVANIA 19401																
STEVEN F. MERVINE, P.L.S.			<table border="1"> <tr> <td>SCALE</td> <td>APPROVED</td> </tr> <tr> <td>1" = 50'</td> <td>SFM</td> </tr> <tr> <td>DRWN BY</td> <td>SHEET</td> </tr> <tr> <td>AY</td> <td>8 OF 14</td> </tr> <tr> <td>DATE</td> <td>DRAWING NO.</td> </tr> <tr> <td>05/17/2020</td> <td>E1707</td> </tr> </table>		SCALE	APPROVED	1" = 50'	SFM	DRWN BY	SHEET	AY	8 OF 14	DATE	DRAWING NO.	05/17/2020	E1707
SCALE	APPROVED															
1" = 50'	SFM															
DRWN BY	SHEET															
AY	8 OF 14															
DATE	DRAWING NO.															
05/17/2020	E1707															
PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 24GS03074300																
D2D 001.01																

DRAWING BY: MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. DATE: 05/17/2020

MATCH LINE SEE DRAWING E1708

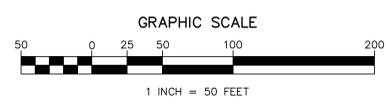
MATCH LINE SEE DRAWING E1707

MATCH LINE SEE DRAWING E1707



LEGEND

	PROPERTY BOUNDARY LINE
	ADJACENT OR INTERNAL PROPERTY LINE
	EXISTING MAJOR CONTOUR LINE
	EXISTING MINOR CONTOUR LINE
	EXISTING TREE LINE
	EXISTING BRUSH LINE
	UTILITY EASEMENT AREA LINE
	WETLANDS/WATERS BOUNDARY LINE
	LIMITS OF HISTORIC FILL
	MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
	UPPER WETLANDS BOUNDARY
	WETLANDS DELINEATION DATA POINT
	WETLANDS/WATERS FLAG
	WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
	WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
CALPINE DEEPWATER				
BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY				
WETLANDS & WATERS LOCATION PLAN				
DEEPWATER INVESTMENT GROUP, LLC				
34 E. GERMANTOWN PIKE, SUITE 203 NORRISTOWN, PENNSYLVANIA 19401				
STEVEN F. MERVINE, P.L.S.				
PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 24G503074300				
05/17/2020			P2D 001.01	

MARATHON
Engineering & Environmental Services
Swedesboro Office
553 Beckett Road, Suite 608, Swedesboro, NJ 08085
ph (856) 241-9705 fax (856) 241-9709
Certificate of Authorization #24GA27995700

SCALE
1" = 50'
DRAWN BY
AY
SHEET
9 OF 14
DRAWING NO.
E1708

MATCH LINE SEE DRAWING E1708

MATCH LINE SEE DRAWING E1708

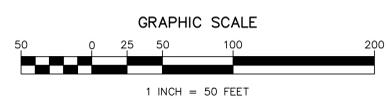
MATCH LINE SEE DRAWING E1712

MATCH LINE SEE DRAWING E1712



LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT OR INTERNAL PROPERTY LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- UTILITY EASEMENT AREA LINE
- WETLANDS/WATERS BOUNDARY LINE
- LIMITS OF HISTORIC FILL
- MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
- UPPER WETLANDS BOUNDARY
- WETLANDS DELINEATION DATA POINT
- WETLANDS/WATERS FLAG
- WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
- WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.

CALPINE DEEPWATER
 BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01
 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY

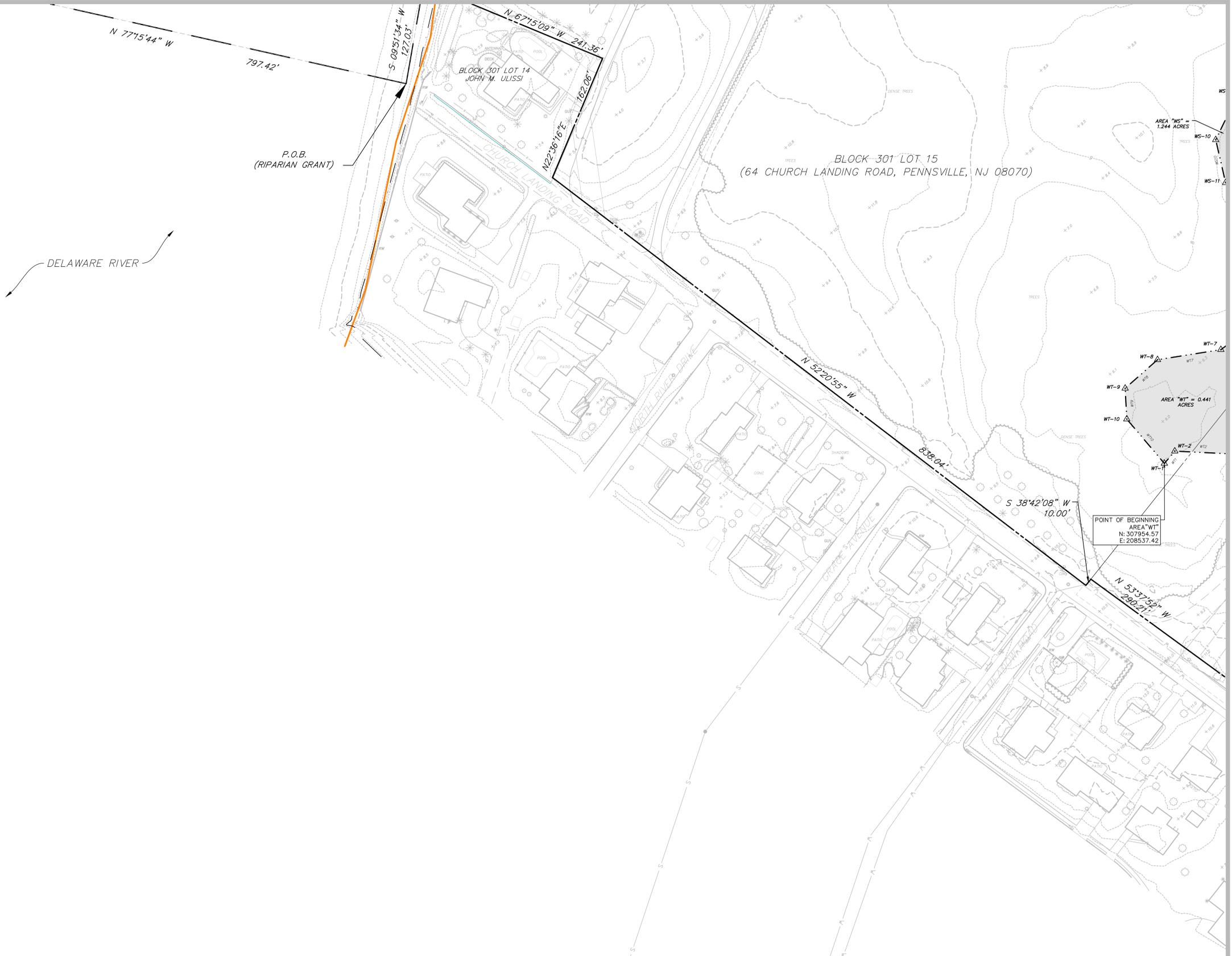
WETLANDS & WATERS LOCATION PLAN
DEEPWATER INVESTMENT GROUP, LLC
 34 E. GERMANTOWN PIKE, SUITE 203
 NORRISTOWN, PENNSYLVANIA 19401

STEVEN F. MERVINE, P.L.S.
 PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 24GS03074300

MARATHON
 Engineering & Environmental Services
 Swedesboro Office
 553 Beckett Road, Suite 608, Swedesboro, NJ 08065
 ph (856) 241-9705 fax (856) 241-9709
 Certificate of Authorization #24GA27995700

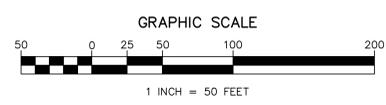
SCALE	1" = 50'	APPROVED	
DRAWN BY	AY	CHECKED BY	SFM
DATE	05/17/2020	DATE	10 OF 14
DRAWING NO.		E1709	

05/17/2020
 P2D 001.01



LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT OR INTERNAL PROPERTY LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- UTILITY EASEMENT AREA LINE
- WETLANDS/WATERS BOUNDARY LINE
- LIMITS OF HISTORIC FILL
- MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
- UPPER WETLANDS BOUNDARY
- WETLANDS DELINEATION DATA POINT
- WETLANDS/WATERS FLAG
- WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
- WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.
CALPINE DEEPWATER			 MARATHON Engineering & Environmental Services Swedesboro Office 553 Beckett Road, Suite 608, Swedesboro, NJ 08085 ph (856) 241-9705 fax (856) 241-9709 Certificate of Authorization #24GA27995700	
BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY				
WETLANDS & WATERS LOCATION PLAN				
DEEPWATER INVESTMENT GROUP, LLC				
34 E. GERMANTOWN PIKE, SUITE 203 NORRISTOWN, PENNSYLVANIA 19401				
STEVEN F. MERVINE, P.L.S. PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 24GS03074300			SCALE 1" = 50' DRAWN BY AY SHEET 11 OF 14 DRAWING NO. E1710	
 05/17/2020 P2D 001.01				

DRAWN BY: MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. (AY) DATE: 05/17/2020

MATCH LINE SEE DRAWING E1711

MATCH LINE SEE DRAWING E1710

MATCH LINE SEE DRAWING E1712

MATCH LINE SEE DRAWING E1710

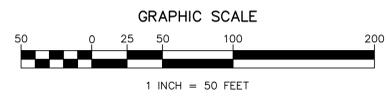
MATCH LINE SEE DRAWING E1712

EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.



LEGEND

	PROPERTY BOUNDARY LINE
	ADJACENT OR INTERNAL PROPERTY LINE
	EXISTING MAJOR CONTOUR LINE
	EXISTING MINOR CONTOUR LINE
	EXISTING TREE LINE
	EXISTING BRUSH LINE
	UTILITY EASEMENT AREA LINE
	WETLANDS/WATERS BOUNDARY LINE
	LIMITS OF HISTORIC FILL
	MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
	UPPER WETLANDS BOUNDARY
	WETLANDS DELINEATION DATA POINT
	WETLANDS/WATERS FLAG
	WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
	WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.

CALPINE DEEPWATER
 BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01
 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY

WETLANDS & WATERS LOCATION PLAN

DEEPWATER INVESTMENT GROUP, LLC
 34 E. GERMANTOWN PIKE, SUITE 203
 NORRISTOWN, PENNSYLVANIA 19401

STEVEN F. MERVINE, P.L.S.
 PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 246303074300

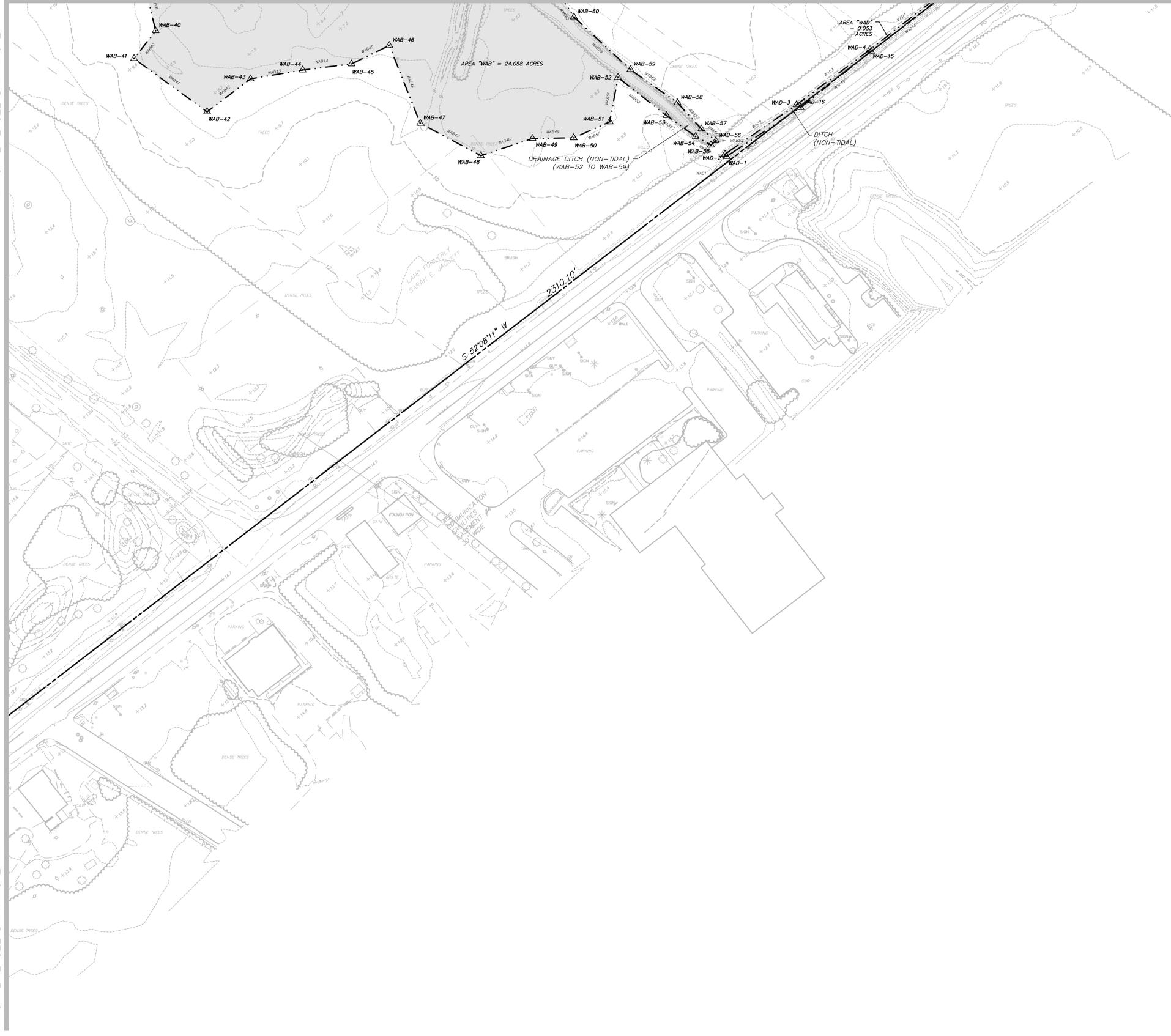
05/17/2020
 P2D-001.01

MARATHON
 Engineering & Environmental Services
 Swedesboro Office
 553 Beckett Road, Suite 608, Swedesboro, NJ 08085
 ph (856) 241-9705 fax (856) 241-9709
 Certificate of Authorization #24GA27995700

SCALE	APPROVED
1" = 50'	SFM
DRAWN BY	AY
DATE	12 OF 14
DRAWING NO.	E1711

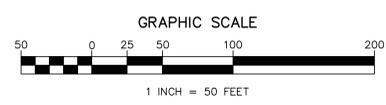
MATCH LINE SEE DRAWING E1711

MATCH LINE SEE DRAWING E1711



LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT OR INTERNAL PROPERTY LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING TREE LINE
- EXISTING BRUSH LINE
- UTILITY EASEMENT AREA LINE
- WETLANDS/WATERS BOUNDARY LINE
- LIMITS OF HISTORIC FILL
- MEAN HIGH WATER LINE (ELEVATION = 2.80 FT)
- UPPER WETLANDS BOUNDARY
- WETLANDS DELINEATION DATA POINT
- WETLANDS/WATERS FLAG
- WETLANDS/WATERS BOUNDARY LINE SEGMENT LABEL
- WETLANDS/WATERS AREA WITHIN SUBJECT PROPERTY



EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS IS FURNISHED BY THE UTILITY COMPANIES AND/OR THE SURVEYOR AND THE ACCURACY THEREOF IS NOT THE RESPONSIBILITY OF MARATHON ENGINEERING & ENVIRONMENTAL SERVICES, INC. IT IS THE RESPONSIBILITY OF THE OWNERS AND/OR CONTRACTOR TO CALL 1-800-272-1000 FOR FIELD LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

05/17/2020	2	ADDED WAN-3A, WAN-4A TO 4D, AND DP-25 TO DP-32 / REVISED PER NJDEP COMMENTS	KSK	SFM
11/20/2019	1	INITIAL SUBMISSION	AY	SFM
ISSUE DATE	ISSUE NO.	SUBMISSION/REVISION	BY	APPR.

CALPINE DEEPWATER
 BLOCK 202, LOT 2; BLOCK 203, LOT 8; BLOCK 301, LOTS 6, 12, 13, 13.01, 15 & 15.01
 TOWNSHIP OF PENNSVILLE, SALEM COUNTY, NEW JERSEY

WETLANDS & WATERS LOCATION PLAN

DEEPWATER INVESTMENT GROUP, LLC
 34 E. GERMANTOWN PIKE, SUITE 203
 NORRISTOWN, PENNSYLVANIA 19401

STEVEN F. MERVINE, P.L.S.
 PROFESSIONAL LAND SURVEYOR NJ LICENSE NO. 24GS03074300

05/17/2020
 P22 001.01

MARATHON
 Engineering & Environmental Services
 Swedesboro Office
 553 Beckett Road, Suite 608, Swedesboro, NJ 08065
 ph (856) 241-9705 fax (856) 241-9709
 Certificate of Authorization #24GA27995700

SCALE: 1" = 50'
 SHEET: 13 OF 14
 DRAWING NO: E1712

DATE: 05/17/2020 11:20:20 AM BY: JFM

LINE TABLE WA		
LINE NO.	DIRECTION	LENGTH
WA1	S85°24'24"W	18.34'
WA2	N84°57'13"W	20.60'
WA3	N76°14'22"W	51.75'
WA4	N78°28'53"W	52.09'
WA5	N82°17'57"W	20.60'
WA6	N73°34'33"W	26.33'
WA7	N75°00'50"W	24.01'
WA8	N81°53'34"W	25.47'
WA9	S85°43'18"W	25.24'
WA10	S85°10'10"W	35.09'
WA11	S83°27'09"W	47.58'
WA12	S71°33'29"W	26.31'
WA13	N80°47'33"W	35.58'
WA14	N02°00'46"E	9.31'
WA15	N88°14'09"E	29.10'
WA16	N78°42'25"E	31.80'
WA17	N81°52'12"E	45.49'
WA18	N81°04'43"E	38.14'
WA19	S88°58'24"E	20.37'
WA20	S84°29'50"E	30.48'
WA21	S74°07'19"E	26.35'
WA22	S78°58'04"E	28.28'
WA23	S77°36'43"E	25.90'
WA24	S79°35'45"E	43.93'
WA25	S72°28'46"E	19.06'
WA26	S80°44'06"E	27.54'
WA27	S78°38'43"E	42.03'
WA28	S02°38'49"W	11.11'

LINE TABLE WB		
LINE NO.	DIRECTION	LENGTH
WB1	N76°05'19"W	18.59'
WB2	N09°59'37"E	8.86'
WB3	S77°40'51"E	20.83'
WB4	S23°44'21"W	9.56'

LINE TABLE WI		
LINE NO.	DIRECTION	LENGTH
WI1	N06°32'27"E	53.35'
WI2	N12°56'13"E	67.98'
WI3	N10°02'20"E	61.41'
WI4	N12°26'27"E	91.26'
WI5	N12°58'11"E	66.28'
WI6	N13°14'14"E	75.60'
WI7	N13°04'47"E	68.68'
WI8	N11°15'55"E	66.67'
WI9	N14°17'34"E	68.39'
WI10	N24°16'20"E	28.09'
WI11	N41°05'28"E	46.17'
WI12	N07°15'48"E	43.26'
WI13	N15°43'43"E	71.10'
WI14	N14°08'37"E	68.14'
WI15	N14°45'38"E	76.31'
WI16	N14°55'00"E	73.98'
WI17	N14°52'08"E	69.15'
WI18	N14°20'11"E	67.33'
WI19	N15°26'06"E	70.35'
WI20	N17°06'35"E	89.66'
WI21	S78°23'55"E	8.33'
WI22	S15°26'27"W	89.92'
WI23	S15°06'43"W	137.11'
WI24	S15°45'23"W	143.28'
WI25	S14°28'21"W	144.84'
WI26	S14°44'20"W	70.90'
WI27	S13°03'30"W	45.59'
WI28	S41°45'04"W	44.37'
WI29	S17°28'11"W	26.68'
WI30	S13°42'08"W	137.67'
WI31	S13°23'01"W	140.72'

LINE TABLE WI (CONT.)		
LINE NO.	DIRECTION	LENGTH
WI32	S12°41'44"W	158.96'
WI33	S11°31'33"W	125.62'
WI34	S04°56'49"W	52.46'
WI35	S71°23'45"W	8.78'

LINE TABLE WO		
LINE NO.	DIRECTION	LENGTH
WO1	N77°03'14"W	79.06'
WO2	N76°17'24"W	91.77'
WO3	N78°07'07"W	77.60'
WO4	N76°24'18"W	96.02'
WO5	N18°39'32"E	13.92'
WO6	S74°40'37"E	83.30'
WO7	S78°44'21"E	83.69'
WO8	S76°09'03"E	82.95'
WO9	S75°13'10"E	92.95'
WO10	S11°04'49"W	9.44'

LINE TABLE WP		
LINE NO.	DIRECTION	LENGTH
WP1	N81°39'55"E	15.72'
WP2	N55°01'14"E	29.58'
WP3	N67°40'29"E	11.82'
WP4	N87°32'54"E	58.72'
WP5	N70°01'37"E	23.87'
WP6	N05°29'40"W	9.76'
WP7	N83°07'29"W	16.22'
WP8	S70°31'53"W	14.02'
WP9	S87°41'16"W	26.54'
WP10	N86°25'41"W	70.74'
WP11	S05°40'32"W	44.94'

LINE TABLE WAB & WR		
LINE NO.	DIRECTION	LENGTH
WAB1	S68°03'38"W	97.71'
WAB2	S73°08'28"W	71.54'
WAB3	S77°09'46"W	69.42'
WAB4	S89°15'58"W	68.54'
WAB5	S64°50'23"W	58.09'
WAB6	S75°01'56"W	63.84'
WAB7	S46°49'26"E	58.75'
WAB8	S53°40'56"W	66.46'
WAB9	N85°40'47"W	40.24'
WAB10	N54°50'29"W	54.84'
WAB11	N27°49'31"W	51.81'
WAB12	N58°39'56"W	22.61'
WAB13	N83°34'59"W	88.88'
WAB14	N49°21'44"W	10.90'
WAB15	N83°57'15"W	8.66'
WAB16	S73°49'03"W	11.52'
WAB17	N79°28'41"W	71.88'
WR20	N73°57'53"W	88.15'
WR19	N63°22'18"W	32.79'
WR18	N77°09'37"W	70.85'
WR17	N79°54'18"W	42.30'
WR16	N76°44'52"W	65.85'
WR15	N78°02'35"W	88.81'
WR14	N74°27'12"W	59.68'
WR13	N79°57'15"W	87.51'
WR12	N75°59'39"W	81.29'
WR11	N76°02'03"W	84.84'
WR10	N79°01'04"W	70.92'
WR9	N78°14'51"W	81.86'
WR8	N78°51'12"W	76.14'
WR7	N80°25'23"W	81.88'
WR6	N76°50'39"W	74.02'
WR5	N77°41'38"W	83.39'
WR4	N77°04'38"W	86.99'

LINE TABLE WAB & WR (CONT.)		
LINE NO.	DIRECTION	LENGTH
WR3	N76°39'55"W	80.37'
WR2	N86°15'50"W	21.76'
WR1	S21°25'12"W	10.52'
WR40	S77°17'17"E	190.75'
WR39	S78°08'33"E	83.00'
WR38	S77°23'23"E	82.50'
WR37	S79°35'55"E	95.57'
WR36	S76°47'57"E	70.46'
WR35	S79°19'42"E	74.88'
WR34	S77°32'28"E	65.24'
WR33	S78°45'12"E	84.88'
WR32	S73°59'46"E	78.40'
WR31	S83°51'00"E	68.03'
WR30	S71°33'25"E	95.27'
WR29	S81°51'49"E	71.90'
WR28	S75°26'10"E	68.21'
WR27	S87°01'55"E	42.12'
WR26	S74°33'42"E	65.91'
WR25	S47°36'23"E	37.69'
WR24	S74°05'27"E	52.41'
WR23	S78°01'27"E	79.33'
WR22	S68°08'57"W	31.45'
WAB18	S84°44'57"W	64.89'
WAB19	S87°07'19"W	57.24'
WAB20	S54°04'51"W	141.55'
WAB21	S11°56'37"E	69.54'
WAB22	S10°07'08"E	75.20'
WAB23	S67°30'33"E	84.98'
WAB24	S83°52'38"E	59.75'
WAB25	S32°48'49"E	81.56'
WAB26	S10°19'31"W	55.80'
WAB27	S62°50'46"E	61.81'
WAB28	S41°51'44"E	74.68'
WAB29	S59°39'28"E	44.74'
WAB30	N74°36'37"E	40.86'
WAB31	S69°35'50"E	53.98'
WAB32	S52°59'37"E	61.59'
WAB33	S52°29'27"E	86.42'
WAB34	S89°06'47"E	40.77'
WAB35	S58°47'07"E	65.74'
WAB36	S11°59'44"E	59.35'
WAB37	S13°15'07"W	65.64'
WAB38	S01°02'43"W	50.37'
WAB39	S13°25'20"E	62.96'
WAB40	S37°31'10"W	41.02'
WAB41	S53°39'55"E	104.89'
WAB42	N52°32'48"E	63.27'
WAB43	N80°18'43"E	61.16'
WAB44	N82°47'50"E	56.93'
WAB45	N63°43'47"E	48.76'
WAB46	S21°28'34"E	97.66'
WAB47	S61°42'07"E	79.64'
WAB48	N71°28'35"E	62.98'
WAB49	N89°06'37"E	47.72'
WAB50	N65°46'25"E	45.64'
WAB51	N10°25'51"E	52.65'
WAB52	S51°33'35"E	71.57'
WAB53	S54°08'26"E	41.60'
WAB54	S60°26'32"E	20.39'
WAB55	N48°40'28"E	7.57'
WAB56	N50°30'34"W	21.65'
WAB57	N42°05'25"W	41.13'
WAB58	N54°35'28"W	66.97'
WAB59	N46°43'29"W	89.63'
WAB60	N32°53'00"W	36.76'
WAB61	N60°12'38"W	54.42'
WAB62	N37°38'19"W	22.08'
WAB63	N12°46'53"E	103.00'

LINE TABLE WAB & WR (CONT.)		
LINE NO.	DIRECTION	LENGTH
WAB64	N05°00'55"E	59.14'
WAB65	N19°41'49"E	49.94'
WAB66	N25°32'05"E	81.76'
WAB67	N07°38'00"E	34.21'
WAB68	S30°44'08"E	55.60'
WAB69	S44°32'34"E	84.18'
WAB70	S26°05'41"E	62.88'
WAB71	S45°54'03"E	83.33'
WAB72	S39°07'52"E	51.35'
WAB73	S61°41'59"E	52.56'
WAB74	S84°06'02"E	54.94'
WAB75	N81°56'57"E	57.88'
WAB76	N65°35'49"E	423.65'

LINE TABLE WS		
LINE NO.	DIRECTION	LENGTH
WS1	N14°59'32"E	60.34'
WS2	N21°17'54"E	43.77'
WS3	N52°22'54"W	52.12'
WS4	N69°52'28"W	41.12'
WS5	N42°23'58"W	48.84'
WS6	N75°50'32"W	52.27'
WS7	S68°08'59"W	80.13'
WS8	S20°36'34"W	30.21'
WS9	S25°39'26"W	63.45'
WS10	S12°51'27"E	55.25'
WS11	S30°01'56"E	54.93'
WS12	S30°51'50"E	65.25'
WS13	S71°06'09"E	48.66'
WS14	N78°18'57"E	41.58'
WS15	N62°52'15"E	64.94'
WS16	N01°05'24"W	33.86'
WS17	N50°15'22"E	35.52'

LINE TABLE WT		
LINE NO.	DIRECTION	LENGTH
WT1	N39°59'07"E	20.16'
WT2	S87°09'40"E	70.65'
WT2A	N31°23'07"E	35.54'
WT3	N29°49'02"E	48.57'
WT4	N08°20'09"W	52.77'
WT5	N07°59'12"W	38.62'
WT6	S53°11'26"W	53.54'
WT7	S80°52'32"W	79.86'
WT8	S48°17'25"W	53.89'
WT9	S02°58'27"E	38.70'
WT10	S40°03'26"E	72.69'

LINE TABLE WU		
LINE NO.	DIRECTION	LENGTH
WU1	N60°25'16"W	86.19'
WU2	S61°33'19"W	50.03'
WU3	S35°14'50"W	55.33'
WU4	S02°51'49"W	70.82'
WU5	S04°49'48"E	62.42'
WU6	S37°25'34"E	20.73'
WU7	N76°40'04"E	60.89'
WU8	S89°39'31"E	40.11'
WU9	N73°40'29"E	49.17'
WU10	N17°19'59"E	58.13'
WU11	N01°45'23"E	40.69'
WU12	N28°43'37"W	59.40'

LINE TABLE WV		
LINE NO.	DIRECTION	LENGTH
WV1	S68°04'38"W	34.85'
WV2	N74°06'05"W	27.96'
WV3	S55°14'14"W	42.34'
WV4	N77°24'46"W	96.17'

LINE TABLE WV (CONT.)		
LINE NO.	DIRECTION	LENGTH
WV5	N75°36'02"W	81.94'
WV6	N32°15'45"W	74.11'
WV7	N40°25'01"W	52.84'
WV8	N19°01'03"E	84.88'
WV9	N22°05'58"E	68.16'
WV10	N29°13'23"E	78.35'
WV11	S38°34'53"E	75.59'
WV12	S65°48'39"E	44.96'
WV13	S52°09'26"E	48.07'
WV14	S66°36'58"E	60.22'
WV15	S27°00'27"E	66.50'
WV16	S42°21'03"E	64.91'
WV17	S02°45'35"E	50.89'
WV18	S12°25'03"W	38.46'

LINE TABLE WW		
LINE NO.	DIRECTION	LENGTH
WW1	S44°37'18"W	67.24'
WW2	S58°30'13"W	67.17'
WW3	N66°57'52"W	33.72'
WW4	S84°05'23"W	69.41'
WW5	N49°22'00"W	47.33'
WW6	N56°45'18"W	69.71'
WW7	N35°33'48"W	67.29'
WW8	N20°15'49"W	54.38'
WW9	N01°41'34"W	62.32'
WW10	N15°03'51"E	54.93'
WW11	N67°14'23"E	19.73'
WW12	S56°43'44"E	64.74'
WW13	S61°09'33"E	48.71'
WW14	N74°19'43"E	68.02'
WW15	N36°48'06"E	41.11'
WW16	S80°16'43"E	27.04'
WW17	S50°13'58"E	69.22'
WW18	S35°26'49"E	58.99'
WW19	N82°20'00"E	81.54'
WW20	S15°59'08"W	90.20'
WW21	S37°19'57"W	50.83'

LINE TABLE WX		
LINE NO.	DIRECTION	LENGTH
WX1	N62°19'09"W	32.49'
WX2	N46°26'00"W	25.16'
WX3	S73°06'57"W	59.75'
WX4	S75°26'18"W	72.76'
WX5	S56°40'30"W	51.71'
WX6	S60°14'40"W	44.