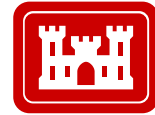




®

Regulatory Program



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INTERIM APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided
in the Interim Approved Jurisdictional Determination Form User Manual.

SECTION I: BACKGROUND INFORMATION

A. COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (AJD): 11-DEC-2019

B. ORM NUMBER IN APPROPRIATE FORMAT (e.g., HQ-2015-00001-SMJ): NAP-2016-00978

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: New Jersey County/parish/borough: Camden City: Pennsauken Twp.

Center coordinates of site (lat/long in degree decimal format): Lat. 39.972267, Long. -75.072129.

Map(s)/diagram(s) of review area (including map identifying single point of entry (SPOE) watershed and/or potential jurisdictional areas where applicable) is/are: ☒ attached ☒ in report/map titled "Plans prepared by Taylor, Wiseman and Taylor; Sheets 1 and 2 of 2; Drawing No. 2018-15761-WETL; dated JULY 12, 2018, last revised 5/29/2019; entitled "WETLANDS & ENVIRONMENTAL PLAN BLOCK 201, LOTS 1 THRU 6 401 COVE ROAD ..." "WETLAND DELINEATION REPORT" prepared by the ELM Group, Inc., dated November 1, 2018.

☐ Other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different jurisdictional determination (JD) form. List JD form ID numbers (e.g., HQ-2015-00001-SMJ-1): .

D. REVIEW PERFORMED FOR SITE EVALUATION:

☐ Office (Desk) Determination Only. Date: .

☒ Office (Desk) and Field Determination. Office/Desk Dates: 11-DEC-2019 Field Date(s): 17-APR-2019.

SECTION II: DATA SOURCES

Check all that were used to aid in the determination and attach data/maps to this AJD form and/or references/citations in the administrative record, as appropriate.

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant. Title/Date: "Plans prepared by Taylor, Wiseman and Taylor; Sheets 1 and 2 of 2; Drawing No. 2018-15761-WETL; dated JULY 12, 2018, last revised 5/29/2019; entitled "WETLANDS & ENVIRONMENTAL PLAN BLOCK 201, LOTS 1 THRU 6 401 COVE ROAD ...".

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.

☒ Data sheets/delineation report are sufficient for purposes of AJD form. Title/Date: "WETLAND DELINEATION REPORT" prepared by the ELM Group, Inc., dated November 1, 2018 (data forms dated June 14 and 15, 2018).

☐ Data sheets/delineation report are not sufficient for purposes of AJD form. Summarize rationale and include information on revised data sheets/delineation report that this AJD form has relied upon: .

Revised Title/Date: .

☐ Data sheets prepared by the Corps. Title/Date: .

☐ Corps navigable waters study. Title/Date: .

☐ CorpsMap ORM map layers. Title/Date: .

☐ USGS Hydrologic Atlas. Title/Date: .

☐ USGS, NHD, or WBD data/maps. Title/Date: .

☒ USGS 8, 10 and/or 12 digit HUC maps. HUC number: 02040202.

☒ USGS maps. Scale & quad name and date: Camden, 1:24000.

☐ USDA NRCS Soil Survey. Citation: .

☐ USFWS National Wetlands Inventory maps. Citation: .

☐ State/Local wetland inventory maps. Citation: .

☐ FEMA/FIRM maps. Citation: .

- ☒ Photographs: ☒ Aerial. Citation: Google Earth, various dates. or ☒ Other. Citation: June 2018 in ELM report cited above.
- ☐ LiDAR data/maps. Citation: .
- ☒ Previous JDs. File no. and date of JD letter: This office issued a previous Jurisdictional Determination (JD) to a prior applicant on 27-MAR-2007 (CENAP-OP-R-2005-1148-24). A field inspection for that JD was done on 24-OCT-2005. The current delineation of wetland boundaries by ELM is nearly identical to the previously verified delineation. There was one area where the area of delineated wetlands was expanded along the south side of the entrance road, near the southeast end of the property.
- ☐ Applicable/supporting case law: .
- ☐ Applicable/supporting scientific literature: .
- ☒ Other information (please specify): The previous JD dated 27-MAR-2007 (noted above) was issued under the Rapanos/SWANCC procedures which were in place at the time it was processed. On 16-AUG-2018, a court decision required the Corps to use the "2015 Clean Water Rule" (CWR).

SECTION III: SUMMARY OF FINDINGS

Complete ORM "Aquatic Resource Upload Sheet" or Export and Print the Aquatic Resource Water Droplet Screen from ORM for All Waters and Features, Regardless of Jurisdictional Status – Required

A. RIVERS AND HARBORS ACT (RHA) SECTION 10 DETERMINATION OF JURISDICTION:

- ☒ "navigable waters of the U.S." within RHA jurisdiction (as defined by 33 CFR part 329) in the review area.

• Complete Table 1 - Required

NOTE: If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Section 10 navigable waters list, DO NOT USE THIS FORM TO MAKE THE DETERMINATION. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Section 10 RHA navigability determination.

B. CLEAN WATER ACT (CWA) SECTION 404 DETERMINATION OF JURISDICTION: "waters of the U.S." within CWA jurisdiction (as defined by 33 CFR part 328.3) in the review area. **Check all that apply.**

- ☒ (a)(1): All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide. (Traditional Navigable Waters (TNWs))
- Complete Table 1 - Required**
- ☐ This AJD includes a case-specific (a)(1) TNW (Section 404 navigable-in-fact) determination on a water that has not previously been designated as such. Documentation required for this case-specific (a)(1) TNW determination is attached.
- ☐ (a)(2): All interstate waters, including interstate wetlands.
- Complete Table 2 - Required**
- ☐ (a)(3): The territorial seas.
- Complete Table 3 - Required**
- ☐ (a)(4): All impoundments of waters otherwise identified as waters of the U.S. under 33 CFR part 328.3.
- Complete Table 4 - Required**
- ☐ (a)(5): All tributaries, as defined in 33 CFR part 328.3, of waters identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.
- Complete Table 5 - Required**
- ☒ (a)(6): All waters adjacent to a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3, including wetlands, ponds, lakes, oxbows, impoundments, and similar waters.
- Complete Table 6 - Required**
- ☒ Bordering/Contiguous.
- Neighboring:
- ☐ (c)(2)(i): All waters located within 100 feet of the ordinary high water mark (OHWM) of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3.
- ☐ (c)(2)(ii): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 and not more than 1,500 feet of the OHWM of such water.
- ☒ (c)(2)(iii): All waters located within 1,500 feet of the high tide line of a water identified in paragraphs (a)(1) or (a)(3) of 33 CFR part 328.3, and all waters within 1,500 feet of the OHWM of the Great Lakes.
- ☐ (a)(7): All waters identified in 33 CFR 328.3(a)(7)(i)-(v) where they are determined, on a case-specific basis, to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 7 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(7) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

- ☐ (a)(8): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3 not covered by (c)(2)(ii) above and all waters located within 4,000 feet of the high tide line or OHWM of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 where they are determined on a case-specific basis to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 8 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(8) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

C. NON-WATERS OF THE U.S. FINDINGS:

Check all that apply.

☐ The review area is comprised entirely of dry land.

☐ Potential-(a)(7) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(7) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

☐ Potential-(a)(8) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(8) waters identified in the similarly situated analysis. - Required**

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

☐ Excluded Waters (Non-Waters of U.S.), even where they otherwise meet the terms of paragraphs (a)(4)-(a)(8):

- **Complete Table 10 - Required**

☐ (b)(1): Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA.

☐ (b)(2): Prior converted cropland.

☐ (b)(3)(i): Ditches with ephemeral flow that are not a relocated tributary or excavated in a tributary.

☐ (b)(3)(ii): Ditches with intermittent flow that are not a relocated tributary, excavated in a tributary, or drain wetlands.

☐ (b)(3)(iii): Ditches that do not flow, either directly or through another water, into a water identified in paragraphs (a)(1)-(a)(3).

☐ (b)(4)(i): Artificially irrigated areas that would revert to dry land should application of water to that area cease.

☐ (b)(4)(ii): Artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, log cleaning ponds, or cooling ponds.

☐ (b)(4)(iii): Artificial reflecting pools or swimming pools created in dry land.¹

☐ (b)(4)(iv): Small ornamental waters created in dry land.¹

☐ (b)(4)(v): Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water.

☐ (b)(4)(vi): Erosional features, including gullies, rills, and other ephemeral features that do not meet the definition of tributary, non-wetland swales, and lawfully constructed grassed waterways.¹

☐ (b)(4)(vii): Puddles.¹

☐ (b)(5): Groundwater, including groundwater drained through subsurface drainage systems.¹

☒ (b)(6): Stormwater control features constructed to convey, treat, or store stormwater that are created in dry land.¹

¹ In many cases these excluded features will not be specifically identified on the AJD form, unless specifically requested. Corps Districts may, in case-by-case instances, choose to identify some or all of these features within the review area.

- ☐ (b)(7): Wastewater recycling structures created in dry land; detention and retention basins built for wastewater recycling; groundwater recharge basins; percolation ponds built for wastewater recycling; and water distributary structures built for wastewater recycling.
- ☐ Other non-jurisdictional waters/features within review area that do not meet the definitions in 33 CFR 328.3 of (a)(1)-(a)(8) waters and are not excluded waters identified in (b)(1)-(b)(7).

• **Complete Table 11 - Required.**

D. ADDITIONAL COMMENTS TO SUPPORT AJD: Liberty Terminal at Pennsauken, LLC; 41.987-acre property identified as Block 201, Lots 1 through 6; located at 401 Cove Road, bounded by the Delaware River to the northwest, Fish House Cove (an embayment to the Delaware River) to the southwest, Conrail railroad to the southeast, and Buckeye Terminal (formerly Hess) to the northeast; in Pennsauken Township, Camden County, New Jersey.

The property contains non-tidal wetlands, freshwater tidal wetlands, and tidal open waters (both directly facing the Delaware River main channel on the northwest side of the property, and a cove known as Fish House Cove on the southwest side). From a review of historic topographic maps and aerial photography, the entire property was formerly part of the Delaware River, with the land formed as a result of the placement of dredged material. The cove was formed as a result of placing the dredged material on both sides, with the center area unfilled, except for a small "finger" that juts into the mouth of the cove. This occurred roughly between 1930 and 1941. The cove includes extensive areas of intertidal vegetated flats (spatterdock), which are situated almost entirely outside the property boundary.

The property includes oil storage tanks and some dilapidated buildings, dock structures, and remnants of above-ground pipes for distribution of petroleum products. The terminal facility was originally constructed in the 1950s (by Pruitt Oil). Operations continued into the 1990s by Pruitt and others, including Star Enterprise. The site has been inactive since 1994, although there is an active underground petroleum pipeline and pumping facility (owned by others), within an easement shown on the survey.

The following wetlands on the property were delineated by the applicant's agent:

Wetland A is contiguous with the tidal cove, on the south side of the access road in the southern corner of the property (4.595 acres). This wetland is mainly forested, with some Phragmites and other herbaceous vegetation (mainly closer to the open water and vegetated tidal flats that are off the property). The area has recently been colonized by beavers, with many trees cut, some small dams and a large lodge present. Water is backing up and flooding a portion of the access road as a result of the beaver activity. Higher high tides and storm events inundate much of this wetland with freshwater tidal waters (this tidally-flowed portion of the Delaware River is well above the salt line).

Wetland B is situated within the oil storage tank containment area (0.725 acre). This is an emergent wetland, and it is highly disturbed as a result of prior oil tank construction and maintenance (on top of the originally-placed dredged material). It is contiguous with Wetland D (see below), with surface water observed flowing from this area into Wetland D. See additional discussion below regarding the applicant's request for this wetland to be excluded under 33 CFR 328.3(b)(6).

Wetland C is an L-shaped feature, with the two "legs" being roughly linear swales, perhaps associated with a former drainage feature (0.200 acre). There is an old concrete structure near the berm separating it from Wetland D, which is identified on the plan as an oil separator. There is a pipe coming from Wetland D, and a valve situated in the adjacent uplands, which appears to have controlled water and or oil coming into or out of the oil separator. There is a headwall situated where the two "legs" of this feature come together, with a pipe that discharges into the tidal cove. See additional discussion below regarding the applicant's request for this wetland to be excluded under 33 CFR 328.3(b)(6).

Wetland D is a former retention basin, surrounded by earthen berms, and connected to the oil tank containment area (1.503 acres). This wetland has the appearance of a former storm water management basin, with man-made linear earthen berms. As noted above, there is a pipe under the berm, which apparently leads to the oil separator in Wetland C. See additional discussion below regarding the applicant's request for this wetland to be excluded under 33 CFR 328.3(b)(6).

Wetland E is a non-tidal freshwater wetland, separated from Wetland A by the access road (4.420 acres). The former JD survey (CENAP-OP-R-2005-1148-24 referenced above) indicated a pipe connection under the road linking this wetland hydrologically to Wetland A (which is contiguous with tidal waters). That pipe (not indicated on the current

survey, and not found) does not appear to be functioning; although it is difficult to tell with water backing up over the road and into Wetland E from Wetland A, due to the beaver activity.

In addition to the delineated wetlands described above, the property contains tidal open waters as noted above (Delaware River and Fish House Cove). The survey plan indicates the high tide line (HTL) at elevation 4.1' (NAVD 88), the mean high water line (MHWL) at 3.1', and the mean low water line (MLWL) at -2.8'. This gives a mean tidal range of 5.9 feet.

This office concurs with the applicant's delineated wetland boundaries and limits of non-wetland tidal waters (HTL and MHWL). Determinations of jurisdiction or exclusion of these wetlands and waters under the 2015 Clean Water Rule are addressed in the tables below.

Jurisdictional Waters of the U.S.

Table 1. (a)(1) Traditional Navigable Waters

(a)(1) Waters Name	(a)(1) Criteria	Rationale to Support (a)(1) Designation Include High Tide Line or Ordinary High Water Mark indicators, when applicable.
NAP-2016-00978 CWR Delaware River	The waterbody is subject to Section 9 or 10 of the Rivers and Harbors Act	This non-wetland area that is subject to the ebb and flow of the tide (2.506 acres) is regulated under 33 CFR 328.3(a)(1), up to the HTL, and under 33 CFR 329.4 and 329.12(b), up to the MHWL. The survey plan indicates the HTL at elevation 4.1' (NAVD 88), and the mean high water line (MHWL) at 3.1', with a mean range (between MHW and MLW) of 5.9 feet.

Table 2. (a)(2) Interstate Waters

(a)(2) Waters Name	Rationale to Support (a)(2) Designation
N/A	N/A

Table 3. (a)(3) Territorial Seas

(a)(3) Waters Name	Rationale to Support (a)(3) Designation
N/A	N/A

Table 4. (a)(4) Impoundments

(a)(4) Waters Name	Rationale to Support (a)(4) Designation
N/A	N/A
N/A	N/A

Table 5. (a)(5) Tributaries

(a)(5) Waters Name	Flow Regime	(a)(1)-(a)(3) Water Name to which this (a)(5) Tributary Flows	Tributary Breaks	Rationale for (a)(5) Designation and Additional Discussion. Identify flowpath to (a)(1)-(a)(3) water or attach map identifying the flowpath; explain any breaks or flow through excluded/non-jurisdictional features, etc.
N/A	Choose an item.	N/A	Choose an item.	N/A
N/A	Choose an item.	N/A	Choose an item.	N/A
N/A	Choose an item.	N/A	Choose an item.	N/A
N/A	Choose an item.	N/A	Choose an item.	N/A

Table 6. (a)(6) Adjacent Waters

(a)(6) Waters Name	(a)(1)-(a)(5) Water Name to which this Water is Adjacent	Rationale for (a)(6) Designation and Additional Discussion. Identify the type of water and how the limits of jurisdiction were established (e.g., wetland, 87 Manual/Regional Supplement); explain how the 100-year floodplain and/or the distance threshold was determined; whether this water extends beyond a threshold; explain if the water is part of a mosaic, etc.
NAP-2016-00978 CWR Wetland A Contiguous	Delaware River	Wetland A (4.595 acres) is contiguous with the tidally-flowed waters of Fish House Cove (part of the Delaware River), which is an “(a)(1)” water as noted above. It is primarily palustrine forested in the higher elevation portions, transitioning to tidally-influenced emergent wetland closer to the tidal waters of Fish House Cove. These tidal waters flow onto a portion of this wetland. Based on the fact that the wetland is bordering/contiguous with an (a)(1) waterbody, it is regulated as Waters of the U.S pursuant to the 2015 CWR (i.e. (a)(6) adjacent waters – bordering/contiguous – with a wetland boundary), or waters type “A6BWB” in ORM.
NAP-2016-00978 CWR Wetland E Neighboring	Delaware River	At its closest point, Wetland E (4.420 acres) is situated approximately 200 feet from the HTL of Fish House Cove (part of the Delaware River), which is an “(a)(1)” water as noted above. Based on its proximity to the tidal waters of an (a)(1) waterbody (i.e. less than 1,500 feet from the HTL), the wetland is regulated as Waters of the U.S pursuant to the 2015 CWR (i.e. (a)(6) adjacent waters – neighboring (iii) – with a wetland boundary, or waters type “A6N3HWP” in ORM.
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Table 7. (a)(7) Waters

SPOE Name	(a)(7) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; discuss whether any similarly situated waters were present and aggregated for SND; discuss data, provide analysis, and summarize how the waters have more than speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Table 8. (a)(8) Waters

SPOE Name	(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to subject water and aggregated for SND; discuss data, provide analysis, and then summarize how the waters have more than speculative or insubstantial effect the on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Non-Jurisdictional Waters

Table 9. Non-Waters/No Significant Nexus

SPOE Name	Non-(a)(7)/(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water DOES NOT have a Significant Nexus	Basis for Determination that the Functions DO NOT Contribute Significantly to the Chemical, Physical, or Biological Integrity of the (a)(1)-(a)(3) Water. Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to the subject water; discuss data, provide analysis, and summarize how the waters did not have more than a speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Table 10. Non-Waters/Excluded Waters and Features

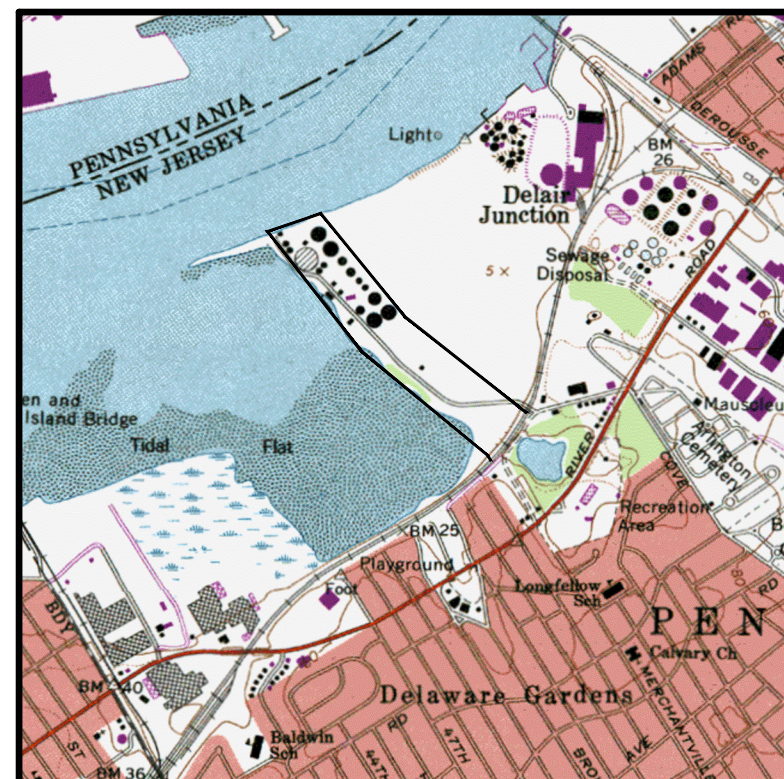
Paragraph (b) Excluded Feature/Water Name	Rationale for Paragraph (b) Excluded Feature/Water and Additional Discussion.
NAP-2016-00978 CWR Wetland B Excluded	Wetland B (0.725 acre) is excluded from federal jurisdiction pursuant to 33 CFR 328.3(b)(6), for stormwater control features, created in dry land, which were constructed to convey, treat or store stormwater. Wetland B is situated within a bermed or walled tank farm. The agent's report states that this wetland is within areas that were previously designed to meet both stormwater management and spill prevention requirements for the tank farm facility. They go on to say that the wetland has developed over time with lack of use and maintenance in recent years. There is a connection to an oil separator and valve system, with pumps, which formerly manipulated the stormwater and/or spillage, directing it from these areas to the river by various pathways.
NAP-2016-00978 CWR Wetland C Excluded	Wetland C (0.200 acre) is a narrow, linear feature, which appears to have been constructed for stormwater drainage. Aerial photography from 1963 and 1970 appears to show it as a ditch or drainage swale. This wetland is excluded under 33 CFR 328.3(b)(6) for stormwater control features, created in dry land, which were constructed to convey, treat or store stormwater. The feature has been present since 1962, and given its location adjacent to a parking lot, and its role in conveying stormwater from that area as well as Wetlands B and D (the tank farm containment and stormwater management area), that it is part of the overall stormwater management for the property.
NAP-2016-00978 CWR Wetland D Excluded	Wetland D (1.503 acres) is excluded from federal jurisdiction pursuant to 33 CFR 328.3(b)(6), for stormwater control features, created in dry land, which were constructed to convey, treat or store stormwater. Wetland D is situated within a former retention basin surrounded by earthen berms. The agent's report states that this wetland is within areas that were previously designed to meet both stormwater management and spill prevention requirements for the tank farm facility. They go on to say that the wetland has developed over time with lack of use and maintenance in recent years. There is a connection to an oil separator and valve system, with pumps, which formerly manipulated the stormwater and/or spillage, directing it from these areas to the river by various pathways. In addition, during the inspection, the developer stated that the original construction of the basin included an impervious (clay) liner, which has since deteriorated somewhat.

Table 11. Non-Waters/Other

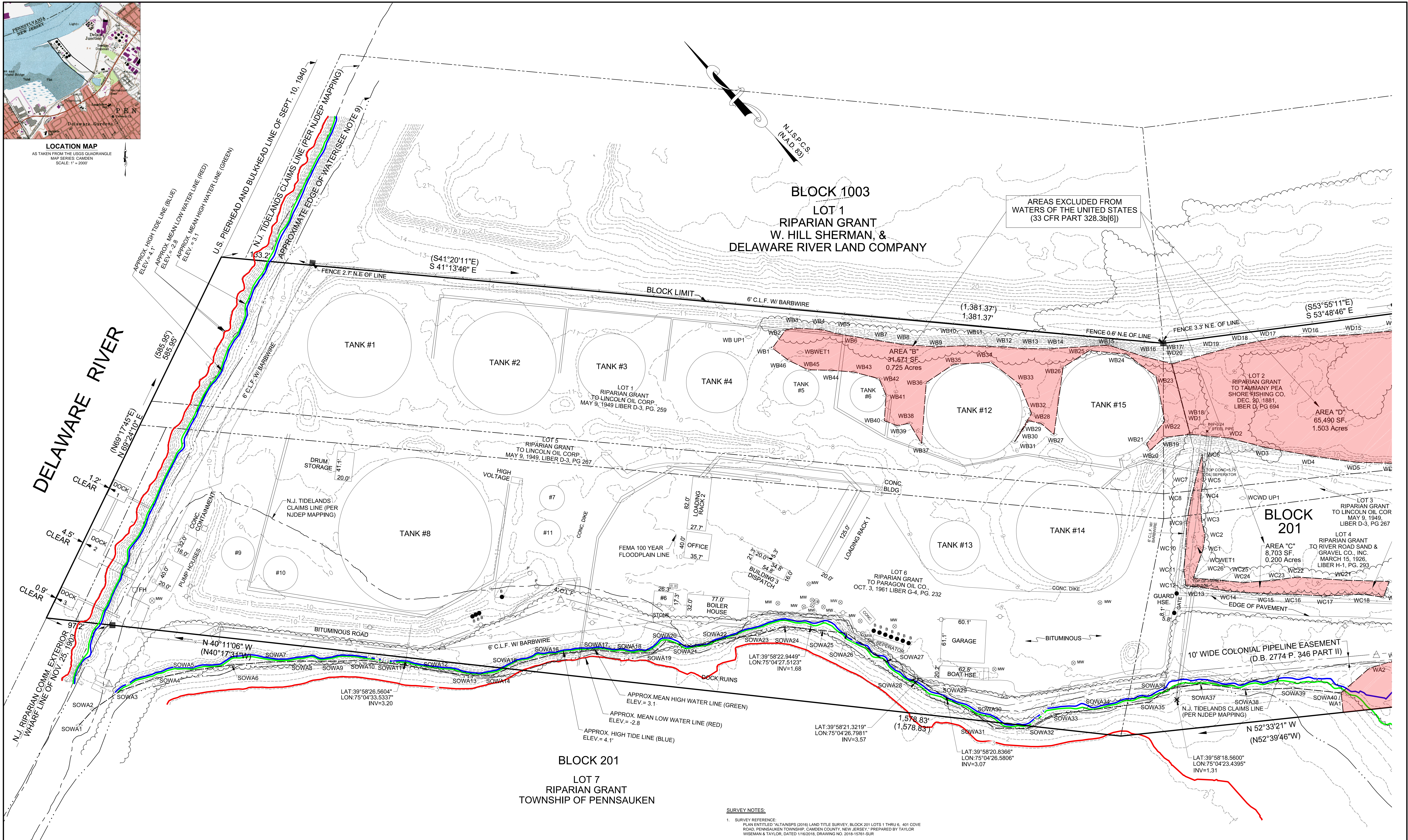
Other Non-Waters of U.S. Feature/Water Name	Rationale for Non-Waters of U.S. Feature/Water and Additional Discussion.
N/A	N/A

Waters_Name	State	Cowardin Code	Hgm Code	Meas Type	Amount	Units
2016-978 Delaware River Non-Wetland	NJ	R1US-RIVERINE, TIDAL, UNCONSOL SHORE	Riverine	AREA	2.506	ACRES
2016-978 Wetland A Contiguous	NJ	PFO-PALUSTRINE, FORESTED		AREA	4.595	ACRES
2016-978 Wetland B Excluded	NJ	PEM-PALUSTRINE, EMERGENT		AREA	0.725	ACRES
2016-978 Wetland C Excluded	NJ	PFO-PALUSTRINE, FORESTED		AREA	0.2	ACRES
2016-978 Wetland D Excluded	NJ	PSS-PALUSTRINE, SCRUB-SHRUB		AREA	1.503	ACRES
2016-978 Wetland E Neighboring	NJ	PFO-PALUSTRINE, FORESTED		AREA	4.42	ACRES

Waters_Type	Latitude	Longitude	Local Waterway
A1	39.97303	-75.07472	Delaware River
A6BWB	39.96978	-75.06874	Delaware River
EXCLDB6	39.97338	-75.07265	Delaware River
EXCLDB6	39.97195	-75.07226	Delaware River
EXCLDB6	39.97231	-75.0715	Delaware River
A6N3HWB	39.97074	-75.06898	Delaware River

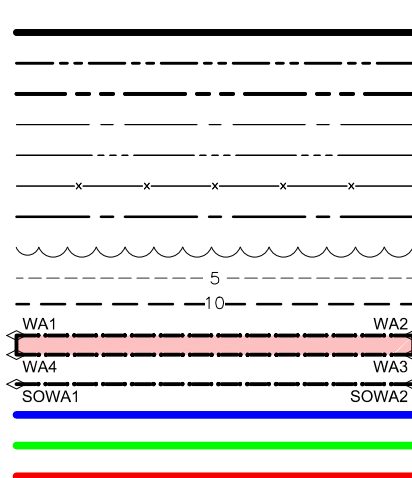


LOCATION MAP
AS TAKEN FROM THE USGS QUADRANGLE
MAP SERIES: CAMDEN
SCALE: 1" = 2000'



SITE AREA CHART

WETLAND AREA "A"	-	200,134 S.F.,	4.595 AC.
WETLAND AREA "B"	-	31,571 S.F.,	0.725 AC.
WETLAND AREA "C"	-	8,703 S.F.,	0.200 AC.
WETLAND AREA "D"	-	65,490 S.F.,	1.503 AC.
WETLAND AREA "E"	-	192,547 S.F.,	4.420 AC.
OPEN WATER (OUTSIDE WETLAND & BELOW HIGH TIDE)	-	109,173 S.F.,	2.506 AC.
UPLANDS (OUTSIDE WETLAND & ABOVE HIGH TIDE)	-	1,221,355 S.F.,	28.038 AC.
TOTAL SITE AREA	-	1,828,973 S.F.,	41.987 AC.

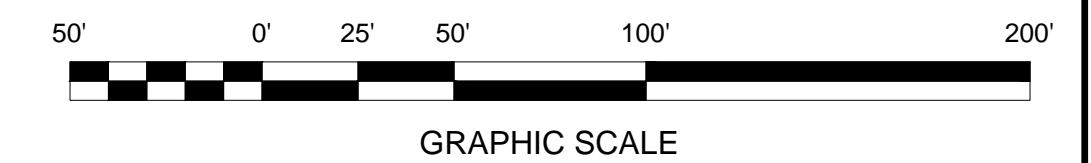


BOUNDARY LINE - SUBJECT PROPERTY
ADJACENT PROPERTY LINES
EXISTING RIGHT-OF-WAY LINE
CENTERLINE
EASEMENT
FENCELINE
TIDELANDS LINE
TREE LINE
CONTOUR
FEMA 100 YEAR FLOODPLAIN LINE (ELEVATION 10 NAVD88)
WETLANDS LINE & HATCH WITH FLAG NUMBERS
STATE OPEN WATER LINE WITH FLAG NUMBERS
APPROXIMATE HIGH TIDE LINE (BLUE)
APPROXIMATE MEAN HIGH WATER LINE (GREEN)
APPROXIMATE MEAN LOW WATER LINE (RED)

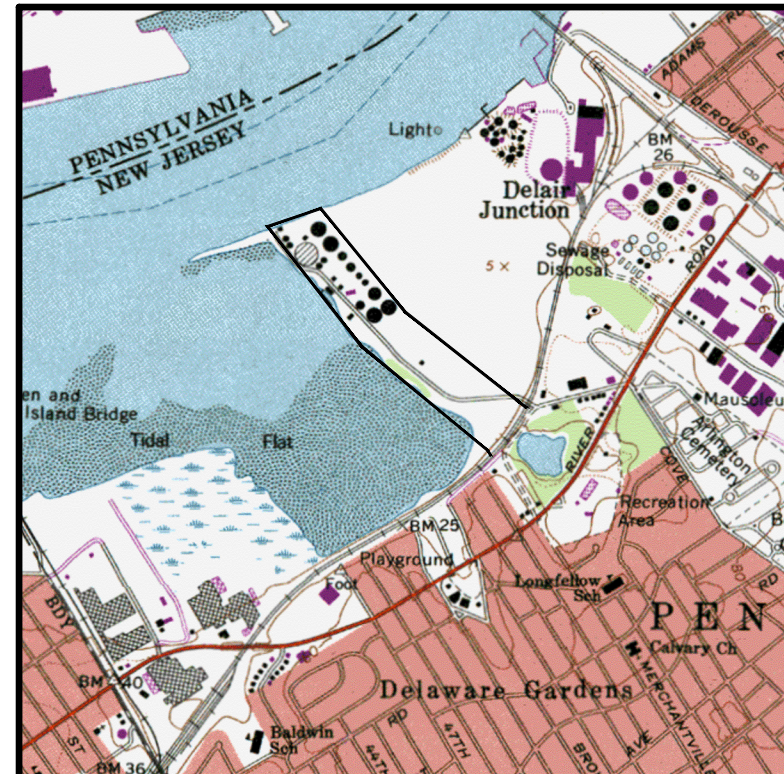
'A' INLET
BOLLARD
CHAIN LINK FENCE
CONCRETE
CONCRETE MONUMENT
FIRE HYDRANT
MONITORING WELL
PIPELINE MARKER
POST
STORM MANHOLE
TELECOMMUNICATIONS BOX
UTILITY POLE / POLE NUMBER
UTILITY POLE W/ LIGHT / POLE NUMBER
UTILITY POLE W/ LIGHT & TRANSFORMER / POLE NUMBER

SURVEY NOTES

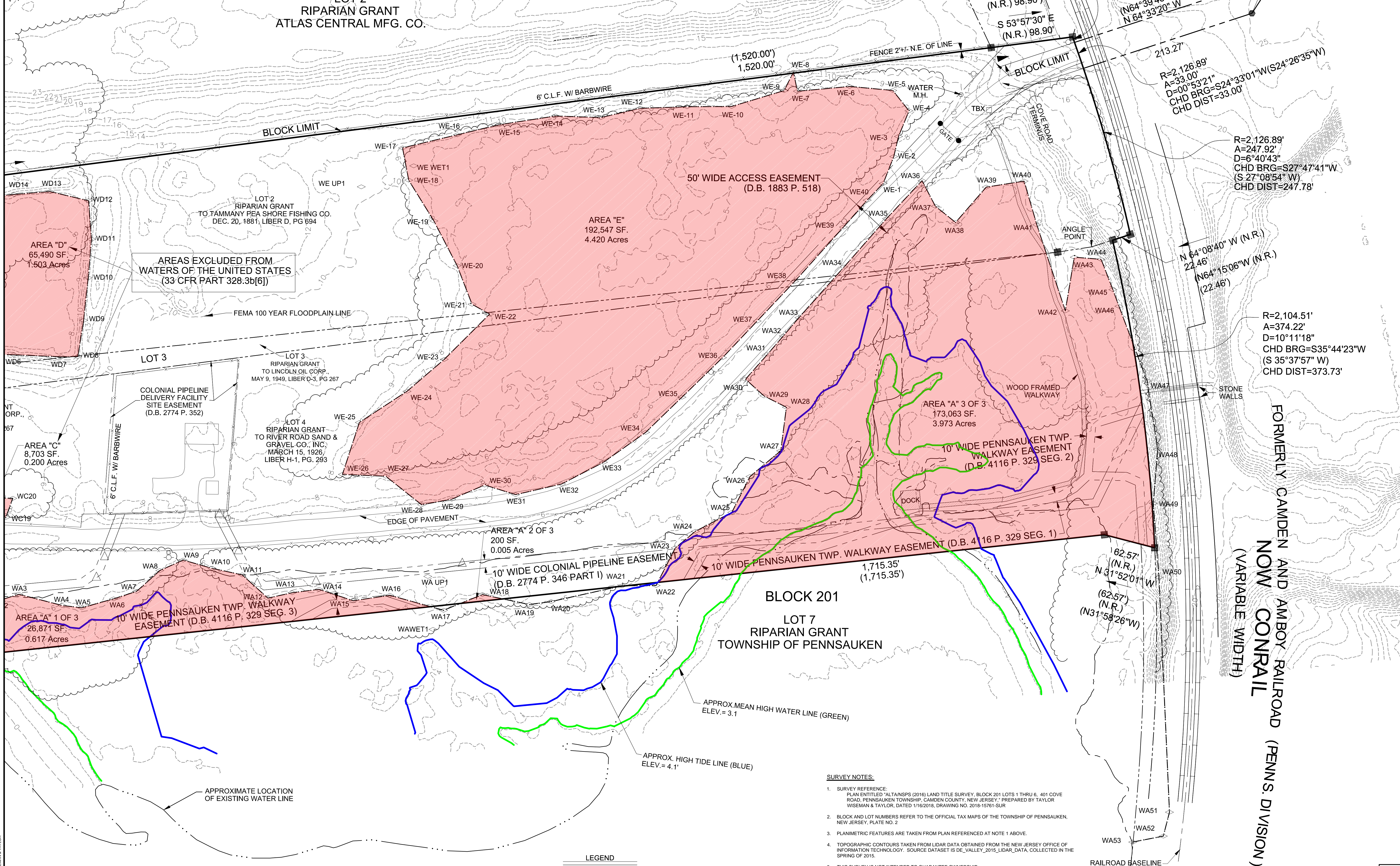
1. SURVEY REFERENCE:
PLAN ENTITLED "ALTAIRSPS (2016) LAND TITLE SURVEY, BLOCK 201 LOTS 1 THRU 6, 401 COVE ROAD, PENNSAUKEN TOWNSHIP, CAMDEN COUNTY, NEW JERSEY," PREPARED BY TAYLOR WISEMAN & TAYLOR, DATED 1/16/2016, DRAWING NO. 2016-15761-SUR
2. BLOCK AND LOT NUMBERS REFER TO THE OFFICIAL TAX MAPS OF THE TOWNSHIP OF PENNSAUKEN, NEW JERSEY, PLATE NO. 2
3. PLANIMETRIC FEATURES ARE TAKEN FROM PLAN REFERENCED AT NOTE 1 ABOVE.
4. TOPOGRAPHIC CONTOURS TAKEN FROM LIDAR DATA OBTAINED FROM THE NEW JERSEY OFFICE OF INFORMATION TECHNOLOGY. SOURCE DATASET IS DE_VALLEY_2015_LIDAR_DATA, COLLECTED IN THE SPRING OF 2015.
5. THIS SURVEY IS NOT INTENDED TO GUARANTEE OWNERSHIP
6. SURVEY BASED ON N.J.S.P.C.S. NAD 1983, VERTICAL DATUM BASED ON NAVD88.
7. IT SHOULD NOT BE ASSUMED THAT ANY COPY OF THIS PLAN WITHOUT A RAISED IMPRESSION OF THE SURVEYOR'S EMBOSSED SEAL OR AN ORIGINAL COLORED IMPRESSION OF THE SURVEYOR'S STAMP SEAL IS A TRUE COPY OF THE ORIGINAL PLAN AS ISSUED BY THE SURVEYOR.
8. IT IS BEYOND THE SCOPE OF THIS PLAN TO DETERMINE LOCATION AND/OR EXISTENCE OF UNDERGROUND UTILITIES. THE STATE OF NEW JERSEY REQUIRES NOTIFICATION PRIOR TO ANY EXCAVATION BY UTILIZING THE NEW JERSEY ONE-CALL SYSTEM (1-800-272-1000).
9. THE DELINEATION FIELD CREW WAS NOT ABLE TO SAFELY ACCESS THE EDGE OF WATER TO FLAG THE "STATE OPEN WATER LINE," THEREFORE THE APPROXIMATE EDGE OF WATER ALONG THE RIVER SHOULD BE USED TO DEFINE THE "STATE OPEN WATER."
10. FEMA 100 YEAR FLOOD HAZARD LINE TAKEN FROM "FEMA NATIONAL FLOOD INSURANCE PROGRAM, CAMDEN COUNTY, NEW JERSEY, MAP NUMBER 3400700027F, PANEL 27," DATED 08/17/2016.



WETLANDS & ENVIRONMENTAL PLAN	
BLOCK 201, LOTS 1 THRU 6 401 COVE ROAD PENNSAUKEN TOWNSHIP CAMDEN COUNTY, NEW JERSEY	
Taylor Wiseman & Taylor ENGINEERS / SURVEYORS / SCIENTISTS 124 GATHER DRIVE, SUITE 150, MOUNT LAUREL, NJ 08054 TELEPHONE: (856) 235-7200 FAX: (856) 722-9250 www.taylorwiseman.com NJ CERTIFICATE OF AUTHORIZATION NO. 240A28032900	
CHECKED BY: SSP	DATE: 5/28/2019
DRAWN BY: ASW	DATE: 5/28/2019
CALCULATED BY: SSP	DATE: 5/28/2019
CHECKED BY: ASW	DATE: 5/28/2019
CALCULATED BY: SSP	DATE: 5/28/2019
SCALE: 1" = 50'	DATE: JULY 12, 2018
DRAWING NO. 2018-15761-WETL	SHEET: 1 OF 2



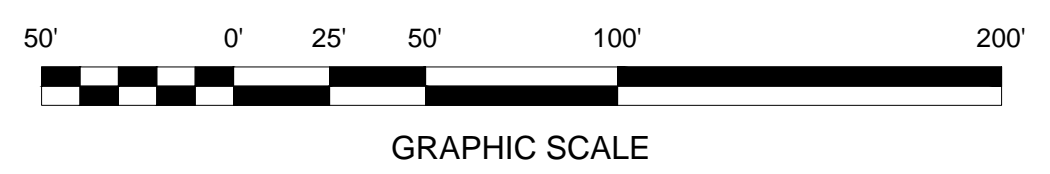
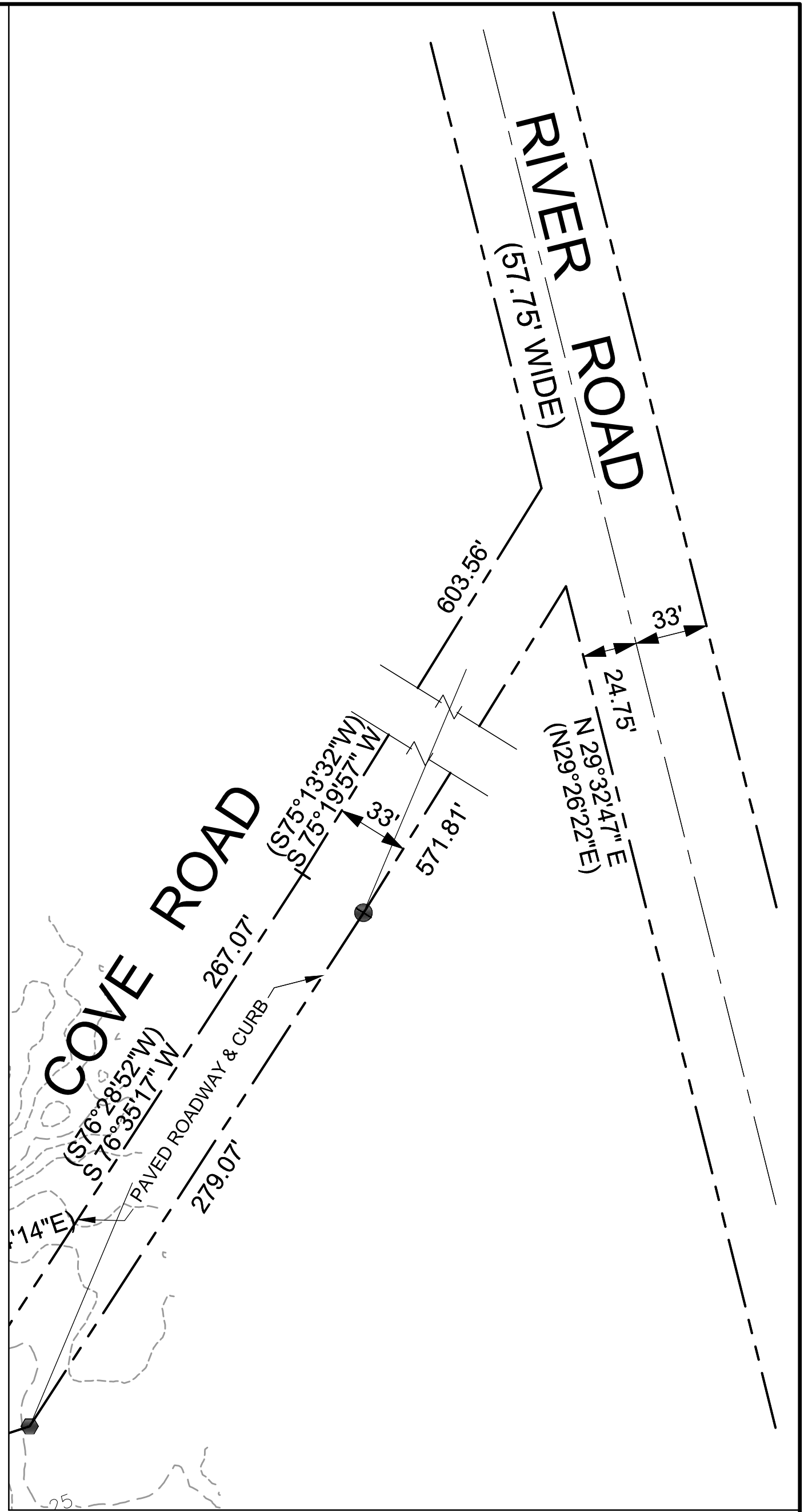
LOCATION MAP
AS TAKEN FROM THE USGS QUADRANGLE
MAP SERIES: CAMDEN
SCALE: 1" = 200'



WETLAND AREA "A"	-	200,134 S.F., 4.595 AC.
WETLAND AREA "B"	-	31,571 S.F., 0.725 AC.
WETLAND AREA "C"	-	8,703 S.F., 0.200 AC.
WETLAND AREA "D"	-	65,490 S.F., 1.503 AC.
WETLAND AREA "E"	-	192,547 S.F., 4.420 AC.
OPEN WATER (OUTSIDE WETLAND & BELOW HIGH TIDE)	-	109,173 S.F., 2.506 AC.
UPLANDS (OUTSIDE WETLAND & ABOVE HIGH TIDE)	-	1,221,355 S.F., 28.038 AC.
TOTAL SITE AREA	-	1,828,973 S.F., 41.987 AC.

BOUNDARY LINE - SUBJECT PROPERTY	B	IN INLET
ADJACENT PROPERTY LINES	B	BOLLARD
C.L.F.	B	CHAIN LINK FENCE
CONC.	B	CONCRETE
CM	B	CONCRETE MONUMENT
FH	B	FIRE HYDRANT
MW	B	MONITORING WELL
P	B	PIPELINE MARKER
POST	B	POST
STORM MANHOLE	B	STORM MANHOLE
TELECOMMUNICATIONS BOX	B	TELECOMMUNICATIONS BOX
UTL #	B	UTILITY POLE / LIGHT / POLE NUMBER
UPL #	B	UTILITY POLE W/ LIGHT / POLE NUMBER
UPL #	B	UTILITY POLE W/ LIGHT & TRANSFORMER / POLE NUMBER

- SURVEY NOTES:**
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 - FEMA 100 YEAR FLOOD HARD LINE TAKEN FROM "FEMA NATIONAL FLOOD INSURANCE PROGRAM, CAMDEN COUNTY, NEW JERSEY, MAP NUMBER 34007C0027F, PANEL 21" DATED 09/17/2016.



CALC BY: ASW		REV 1 - COLORIZED PLAN AND MADE REVISIONS PER CLIENT REVIEW - RMR	
DATE SIGNED:	NO. 1	DATE	5/29/2019
THIS PLAN WAS PREPARED UNDER MY IMMEDIATE SUPERVISION.			
CHECKED: SSP			
DRAWN: ASW			
CALC BY: ---			
SCALE: 1" = 50'		DATE: JULY 12, 2018	DRAWING NO. 2018-15761-WETL
SHEET: 2 OF 2		SHEET: 2 OF 2	

WETLANDS & ENVIRONMENTAL PLAN

BLOCK 201, LOTS 1 THRU 6
401 COVE ROAD
PENNSAUKEN TOWNSHIP
CAMDEN COUNTY, NEW JERSEY

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