



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, NEW YORK DISTRICT
JACOB K. JAVITS FEDERAL BUILDING
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10278

CENAN-OP-RE

MEMORANDUM FOR RECORD

SUBJECT: US Army Corps of Engineers (Corps) Approved Jurisdictional Determination in accordance with the "Revised Definition of 'Waters of the United States'"; (88 FR 3004 (January 18, 2023) as amended by the "Revised Definition of 'Waters of the United States'; Conforming" (8 September 2023) ,¹ NAN-2023-00524-EKO

BACKGROUND. An Approved Jurisdictional Determination (AJD) is a Corps document stating the presence or absence of waters of the United States on a parcel or a written statement and map identifying the limits of waters of the United States on a parcel. AJDs are clearly designated appealable actions and will include a basis of JD with the document.² AJDs are case-specific and are typically made in response to a request. AJDs are valid for a period of five years unless new information warrants revision of the determination before the expiration date or a District Engineer has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.³

On January 18, 2023, the Environmental Protection Agency (EPA) and the Department of the Army ("the agencies") published the "Revised Definition of 'Waters of the United States,'" 88 FR 3004 (January 18, 2023) ("2023 Rule"). On September 8, 2023, the agencies published the "Revised Definition of 'Waters of the United States'; Conforming", which amended the 2023 Rule to conform to the 2023 Supreme Court decision in *Sackett v. EPA*, 598 U.S., 143 S. Ct. 1322 (2023) ("*Sackett*").

This Memorandum for Record (MFR) constitutes the basis of jurisdiction for a Corps AJD as defined in 33 CFR §331.2. For the purposes of this AJD, we have relied on Section 10 of the Rivers and Harbors Act of 1899 (RHA),⁴ the 2023 Rule as amended, as well as other applicable guidance, relevant case law, and longstanding practice in evaluating jurisdiction.

1. SUMMARY OF CONCLUSIONS.

¹ While the Revised Definition of "Waters of the United States"; Conforming had no effect on some categories of waters covered under the CWA, and no effect on any waters covered under RHA, all categories are included in this Memorandum for Record for efficiency.

² 33 CFR 331.2.

³ Regulatory Guidance Letter 05-02.

⁴ USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this MFR, jurisdiction under RHA will be referred to as Section 10.

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- a. Provide a list of each individual feature within the review area and the jurisdictional status of each one (i.e., identify whether each feature is/is not a water of the United States and/or a navigable water of the United States).
 - i. Wetland 1 (WA) – non-jurisdictional
 - ii. Wetland 2 (WB) – non-jurisdictional
 - iii. Wetland 3 (WC) – non-jurisdictional
 - iv. Wetland 4 (WD) – jurisdictional
 - v. Wetland 5 (WE) – non-jurisdictional
 - vi. Wetland 6 (WF) – non-jurisdictional
 - vii. Wetland 7 (WG) – non-jurisdictional
 - viii. Wetland 8 (WH) – non-jurisdictional
 - ix. Wetland 9 (WJ) – non-jurisdictional
 - x. Wetland 10 (WK) – non-jurisdictional
 - xi. Wetland 11 (WL) – non-jurisdictional
 - xii. Wetland 12 (WM) – non-jurisdictional
 - xiii. Wetland 13 (WN) – non-jurisdictional
 - xiv. Wetland 14 (WP) – non-jurisdictional
 - xv. Wetland 15 (WQ) – non-jurisdictional
 - xvi. Wetland 16 (WR) – non-jurisdictional
 - xvii. Wetland 17 (WS) – non-jurisdictional
 - xviii. Wetland 18 (WT) – non-jurisdictional
 - xix. Wetland 19 (WU) – non-jurisdictional
 - xx. Wetland 20 (WW) – non-jurisdictional
 - xxi. Wetland 21 (WXX) – non-jurisdictional
 - xxii. Wetland 22 (WY) – non-jurisdictional
 - xxiii. Wetland 23 (WZ) – non-jurisdictional
 - xxiv. Wetland 24 (WAA) – non-jurisdictional
 - xxv. Wetland 25 (WAB) – non-jurisdictional
 - xxvi. Wetland 26 (WAC/WAD) – non-jurisdictional
 - xxvii. Wetland 27 (WAE/WAF) – non-jurisdictional
 - xxviii. Wetland 28 (WAG/WAH) – non-jurisdictional
 - xxix. Waterbody 1 (North Cove) – Jurisdictional – TNW
 - xxx. Waterbody 2 (SA/SB/SC) – non-jurisdictional
 - xxxi. Waterbody 3 (SD/SW/SZ) – jurisdictional – seasonal RPW
 - xxxii. Waterbody 4 (SX/SY) – jurisdictional – seasonal RPW

2. REFERENCES.

- a. “Revised Definition of ‘Waters of the United States,’” 88 FR 3004 (January 18, 2023) (“2023 Rule”)

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- b. “Revised Definition of ‘Waters of the United States’; Conforming” 88 FR 61964 (September 8, 2023))
- c. *Sackett v. EPA*, 598 U.S., 143 S. Ct. 1322 (2023)

3. REVIEW AREA.

The project site is approximately 232 in acres; 40.704656°, -74.052974°, Liberty State Park in Jersey City, Hudson County, New Jersey

4. NEAREST TRADITIONAL NAVIGABLE WATER (TNW), THE TERRITORIAL SEAS, OR INTERSTATE WATER TO WHICH THE AQUATIC RESOURCE IS CONNECTED.

Upper New York Bay. The Upper New York Bay is approximately 1000 feet away from the project.

5. FLOWPATH FROM THE SUBJECT AQUATIC RESOURCES TO A TNW, THE TERRITORIAL SEAS, OR INTERSTATE WATER.

The flow path from the Wetland WD to the Upper New York Bay is that it flows through a culvert under the road into another wetland that is directly adjacent to Upper New York Bay. The flow path from SD/SE/SZ and SX/SY is that they flow through culverts, directly into the Morris Canal Basin.

6. SECTION 10 JURISDICTIONAL WATERS⁵: Describe aquatic resources or other features within the review area determined to be jurisdictional in accordance with Section 10 of the Rivers and Harbors Act of 1899. Include the size of each aquatic resource or other feature within the review area and how it was determined to be jurisdictional in accordance with Section 10.⁶

Waterbody 1 (North Cove) is a TNW connected to the Hudson River.

⁵ 33 CFR 329.9(a) A waterbody which was navigable in its natural or improved state, or which was susceptible of reasonable improvement (as discussed in § 329.8(b) of this part) retains its character as “navigable in law” even though it is not presently used for commerce, or commerce or is presently incapable of such use because of changed conditions or the presence of obstructions.

⁶ This MFR is not to be used to make a report of findings to support a determination that the water is a navigable water of the United States. The district must follow the procedures outlined in 33 CFR part 329.14 to make a determination that water is a navigable water of the United States subject to Section 10 of the RHA.

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7. SECTION 404 JURISDICTIONAL WATERS: Describe the aquatic resources within the review area that were found to meet the definition of waters of the United States in accordance with the 2023 Rule as amended, consistent with the Supreme Court's decision in *Sackett*. List each aquatic resource separately, by name, consistent with the naming convention used in section 1, above. Include a rationale for each aquatic resource, supporting that the aquatic resource meets the relevant category of "waters of the United States" in the 2023 Rule as amended. The rationale should also include a written description of, or reference to a map in the administrative record that shows, the lateral limits of jurisdiction for each aquatic resource, including how that limit was determined, and incorporate relevant references used. Include the size of each aquatic resource in acres or linear feet and attach and reference related figures as needed.

- a. Traditional Navigable Waters (TNWs) (a)(1)(i): North Cove, 1.08 acres
- b. The Territorial Seas (a)(1)(ii): N/A
- c. Interstate Waters (a)(1)(iii): N/A
- d. Impoundments (a)(2): N/A
- e. Tributaries (a)(3): Waterbody 3 (SD/SE/SZ), 0.41 acres, and Waterbody 4 (SX/SY), 1.907 acres. Waterbody 3 flows into Waterbody 4 via a 24-inch RCP. Waterbody 4 flows directly into the Morris Canal Basin of Upper New York Bay via 28-inch RCP. Both ditches have portions which are subject to the ebb and flow of the tide though they both rely on stormwater inputs for flow and dry up seasonally.
- f. Adjacent Wetlands (a)(4): Wetland 4 (WD), 0.514 acres, this wetland drains into another wetland off-site which is adjacent to the Upper New York Bay via an 18" Corrugated Metal Pipe (cmp) under a parking lot and Freedom Way.
- g. Additional Waters (a)(5): N/A

8. NON-JURISDICTIONAL AQUATIC RESOURCES AND FEATURES

- a. Describe aquatic resources and other features within the review area identified in the 2023 Rule as amended as not "waters of the United States" even where they otherwise meet the terms of paragraphs (a)(2) through (5). Include the type of excluded aquatic resource or feature, the size of the aquatic resource or feature

within the review area and describe how it was determined to meet one of the exclusions listed in 33 CFR 328.3(b).⁷ N/A

- b. Describe aquatic resources and features within the review area that were determined to be non-jurisdictional because they do not meet one or more categories of waters of the United States under the 2023 Rule as amended (e.g., tributaries that are non-relatively permanent waters; non-tidal wetlands that do not have a continuous surface connection to a jurisdictional water).

Wetland 1 (WA) is an approximately 0.07 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and histic epipedon indicators. There does not appear to be any continuous surface connection to a jurisdictional water. Wetland WA is located approximately 1,250 feet from Water SD/SE/SZ, with no apparent continuous surface connection.

Wetland 2 (WB) is an approximately 0.53 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and histic epipedon indicators. There does not appear to be any continuous surface connection to a jurisdictional water. Wetland WB is located approximately 1,450 feet from Water SD/SE/SZ, with no apparent continuous surface connection.

Wetland 3 (WC) is an approximately 1.55 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and sandy mucky mineral indicators. There does not appear to be any continuous surface connection to a jurisdictional water. Wetland WC is located approximately 1,850 feet from Water SD/SE/SZ, with no apparent continuous surface connection.

Wetland 5 (WE) is an approximately 0.03 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland. There does not appear to be any continuous surface connection to a jurisdictional water. There does not appear to be any continuous surface connection to a jurisdictional water. Wetland WE is located approximately 1,870 feet from Water SD/SE/SZ, with no apparent continuous surface connection.

⁷ 88 FR 3004 (January 18, 2023)

Wetland 6 (WF) is an approximately 1.03 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by common reed (*Phragmites australis*) with sandy soils and sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water. Wetland WF is located approximately 1,620 feet from Water SD/SE/SZ, with no apparent continuous surface connection.

Wetland 7 (WG) is an approximately 0.21 acre Palustrine Forested Broad-Leaved Deciduous Temporarily Flooded/Saturated (PFO1A) wetland dominated by Sensitive fern (*Onoclea sensibilis*) with sandy/loamy soils and Histic Epipedon indicators. There does not appear to be any continuous surface connection to a jurisdictional water. Wetland WG is located approximately 1,670 feet from Upper New York Bay, with no apparent continuous surface connection.

Wetland 8 (WH) is an approximately 0.12 acre Palustrine Forested Broad-Leaved Deciduous Seasonally Flooded/Saturated (PFO1E) wetland dominated by red maple (*Aer rubrum*) with sandy/loamy soils and Histic Epipedon indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 9 (WJ) is an approximately 0.39 acre Palustrine Scrub/Shrub Broad-Leaved Deciduous Seasonally Flooded/Saturated (PSS1A) wetland dominated by Purple loosestrife (*Lythrum salicaria*) with sandy/loamy soils and Histic Epipedon indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 10 (WK) is an approximately 0.12 acre Palustrine Forested Broad-Leaved Deciduous Temporarily Flooded/Saturated (PFO1E) wetland dominated by red maple (*Aer rubrum*) with sandy/loamy soils and Histic Epipedon indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 11 (WL) is an approximately 0.02 acre Palustrine Forested Broad-Leaved Deciduous Temporarily Flooded/Saturated (PFO1A) wetland dominated by Switchgrass (*Panicum virgatum*) with sandy/loamy soils and Depleted Below Dark Surface and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 12 (WM) is an approximately 0.02 acre Palustrine Forested Broad-Leaved Deciduous Temporarily Flooded/Saturated (PFO1A) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils

and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 13 (WN) is an approximately 0.02 acre Palustrine Forested Broad-Leaved Deciduous Temporarily Flooded/Saturated (PFO1A) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and Depleted Below Dark Surface and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 14 (WP) is an approximately 0.76 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by common reed (*Phragmites australis*) with sandy soils and sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 15 (WQ) is an approximately 0.03 acre Palustrine Forested Broad-Leaved Deciduous Temporarily Flooded/Saturated (PFO1A) wetland. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 16 WR is an approximately 0.02 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E). There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 17 (WS) is an approximately 0.06 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and Depleted Below Dark Surface and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 18 (WT) is an approximately 0.32 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by Poison ivy (*Toxicodendron radicans*) with loamy soils and depleted matrix indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 19 (WU) is an approximately 0.05 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1A) wetland dominated by Purple loosestrife (*Lythrum salicaria*) with loamy soils and depleted below dark surface indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 20 (WW) is an approximately 0.32 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and Depleted Below Dark Surface and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 21 (WXX) is an approximately 1.22 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1A) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and Depleted Below Dark Surface and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 22 (WY) is an approximately 0.27 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and Depleted Below Dark Surface and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 23 (WZ) is an approximately 3.54 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1A) wetland dominated by Woolgrass (*Scirpus cyperinus*) with sandy/loamy soils and Depleted Below Dark Surface and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 24 (WAA) is an approximately 0.16 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1A) wetland dominated by Poison ivy (*Toxicodendron radicans*) with sandy/loamy soils and Sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 25 (WAB) is an approximately 0.11 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1A) wetland dominated by Reed canary grass (*Phalaris arundinacea*) with loamy soils and Depleted Below Dark Surface indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Wetland 26 (WAC/WAD) is an approximately 2.10 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1E) wetland dominated by Woolgrass (*Scirpus cyperinus*) with loamy/clayey soils and Depleted Below Dark Surface indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

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Wetland 27 (WAE/WAF) is an approximately 2.21 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1C) wetland dominated by common reed (*Phragmites australis*) with sandy/loamy soils and sandy redox indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

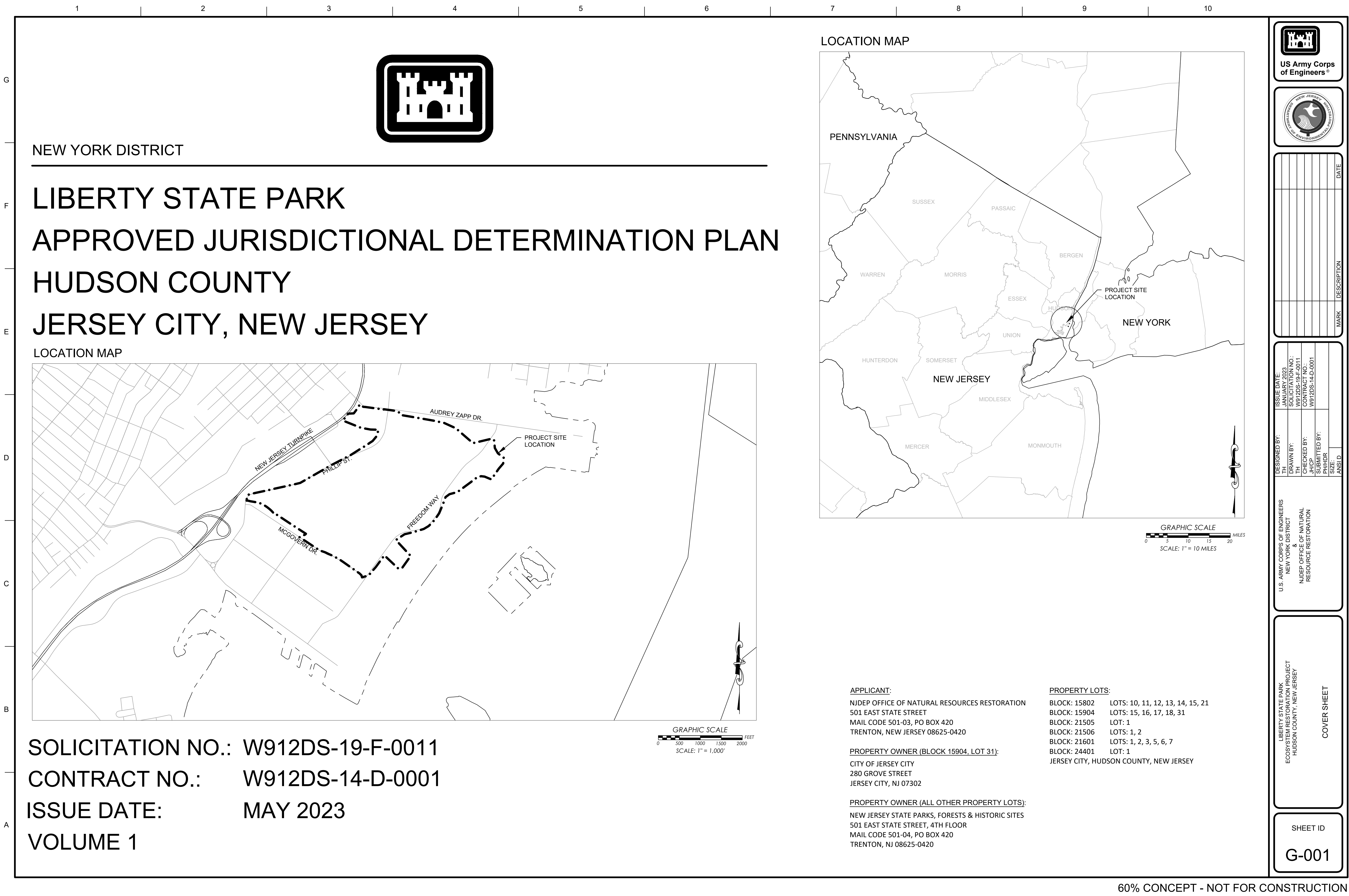
Wetland 28 (WAG/WAH) is an approximately 2.32 acre Palustrine Emergent Persistent Seasonally Flooded/Saturated (PEM1F) wetland dominated by common reed (*Phragmites australis*) with mucky loam/clayey soils and Depleted Below Dark Surface indicators. There does not appear to be any continuous surface connection to a jurisdictional water.

Waterbody 2 (SA/SB/SC) is an approximately 2.19 acre man-made ditch. man-made ditch that does not flow into a relatively permanent water (RPW) or a TNW. The ditch used to drain into the Upper New York Bay via two pipes under Freedom Way. In 2001, the NJDEP entered into a Consent Decree that required point source discharges to surface waters from the dredge-spoil storage area be eliminated by permanently plugging the two pipes leading from the ditch under Freedom Way.

9. DATA SOURCES. List sources of data/information used in making determination. Include titles and dates of sources used and ensure that information referenced is available in the administrative record.
 - a. Virtual Office Evaluation on September 25, 2023;
 - b. "WETLAND DELINEATION REPORT Liberty State Park Wetland Delineation Report (Project #2055.001)" prepared by Princeton Hydro dated February 2023;
 - c. Wetland Delineation Sheets and Site Photos prepared by Princeton Hydro on August 7, 2019; and
 - d. National Wetland Inventory Map dated October 2, 2024

10. OTHER SUPPORTING INFORMATION. N/A

11. NOTE: The structure and format of this MFR were developed in coordination with the EPA and Department of the Army. The MFR's structure and format may be subject to future modification or may be rescinded as needed to implement additional guidance from the agencies; however, the approved jurisdictional determination described herein is a final agency action.



SURVEY NOTES:

1. ALL FIELD SURVEYS PERFORMED BY ROGERS SURVEYING, PLLC (VARIOUS DATES) FOR USE IN BASEMAP CREATION.
2. HORIZONTAL DATUM : NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD83, FIPS ZONE 2900 FEET.
3. VERTICAL DATUM : NORTH AMERICAN VERTICAL DATUM OF 1988 - U.S. FEET (NAVD88).
4. VERTICAL DATUM CONVERSION FACTOR: $NGVD29 = NAVD88 + 1.119$
5. MAPPING SHOWN IS COMPILED FROM AERIAL PHOTOGRAMMETRY COMPLETED ON FEBRUARY 28, 2019.
6. CONTOURS ARE SHOWN AT 0.5 FOOT INTERVAL.
7. AERIAL PHOTOGRAPHY CONTROL ESTABLISHED BY STATIC GLOBAL POSITIONING SYSTEM CONTROL NETWORK WAS ADJUSTED TO CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) MAINTAINED BY THE NATIONAL GEODETIC SURVEY (NGS).
8. NETWORK ADJUSTMENT RESULTS COMPARED TO NGS ONLINE POSITIONING USER SERVICE (OPUS) AND INDEPENDENT RTK GPS POSITION SOLUTIONS AS QA/QC.
9. WETLAND DELINEATION AREAS WERE SURVEYED UTILIZING A COMBINATION OF CONVENTIONAL LAND SURVEYING TECHNIQUES AND REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM.
10. THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) BENCH MARK FOR THE PROJECT IS KV0278 "B 72" ELEVATION 7.72 FEET (NAVD88).

UTILITY SURVEY NOTES

1. RECORD UTILITY INFORMATION WAS OBTAINED FROM NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP) FOR THE FOLLOWING:
 - STORM
 - SANITARY
 - WATER
 - GAS
 - TELECOMMUNICATIONS
 - ELECTRIC
2. UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS ONE OF SEVERAL POSSIBLE INTERPRETATIONS OF THE RECORD DATA AS PROVIDED BY THE RESPECTIVE SOURCES. ROGERS SURVEYING, PLLC ASSUMES NO RESPONSIBILITY FOR THE ACTUAL LOCATION, SIZE, AND DEPTH OF ANY UTILITY LINES. THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES MUST BE VERIFIED WITH THE RESPECTIVE UTILITY COMPANY OR AGENCY PRIOR TO ANY DESIGN AND CONSTRUCTION OR EXCAVATION.
3. OVERHEAD ELECTRIC AND TELECOMMUNICATIONS SHOWN OBTAINED FROM FIELD SURVEY.
4. SEWER INVERT INFORMATION ARE AS PER DATA COLLECTED IN THE FIELD UNLESS OTHERWISE INDICATED.

UTILITY CONTACT INFO:

- | | | |
|----|-----------------------------------|--|
| 1. | NATURAL GAS | PSEG & - CHARLES MIRACOLA JR. (908) 412-2215 - CHARLES.MIRACOLAJR@PSEG.COM |
| 2. | ELECTRIC | PSEG & - CHARLES MIRACOLA JR. (908) 412-2215 - CHARLES.MIRACOLAJR@PSEG.COM |
| 3. | UNDERGROUND FIBER OPTIC / TELECOM | VERIZON - KRZYSZTOF OGRODNIK (732) 874-6189 - KRZYSZTOF.OGRODNIK@VERIZON.COM |
| 4. | OVERHEAD FIBER OPTIC / TELECOM | VERIZON - KRZYSZTOF OGRODNIK (732) 874-6189 - KRZYSZTOF.OGRODNIK@VERIZON.COM |
| 5. | OVERHEAD CABLE | |
| 6. | WATER | JCMUA - RICHARD HAYTAS (201) 432-1150 - R.HAYTAS@JCMUA.COM |
| 7. | SANITARY SEWER | JCMUA - RICHARD HAYTAS (201) 432-1150 - R.HAYTAS@JCMUA.COM |
| 8. | STORMWATER (NJDEP PARCELS) | LSP - BRIAN SHANKLE (201) 915-3400 x 105 - CHARLES.SHANKLE@NJDEP.NJ.GOV |

REFERENCE NOTES:

1. DEED BOOK 3003 PAGES 943-946
2. MAP ENTITLED "SKETCH OF PROPERTY OF PROPOSED JOB CORPS SITE, SITUATED IN JERSEY CITY, HUDSON COUNTY, NEW JERSEY, PREPARED FOR DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT, BY VAN NOTE - HARVEY ASSOC., PRINCETON, NJ., SCALE 1"=200' DATED JULY, 1965

WETLAND DELINEATION NOTES:

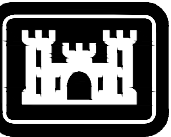
1. THE DELINEATION OF WATERS OF THE UNITED STATES, INCLUDING WETLANDS, AT THE SITE WAS PERFORMED BY PRINCETON HYDRO IN APRIL AND AUGUST 2019.
2. THE DELINEATION WAS BASED ON THE METHODS AND PROCEDURES SET FORTH IN THE 1987 MANUAL AND THE NCNE REGIONAL SUPPLEMENT. THE 1987 MANUAL'S ROUTINE ON-SITE DETERMINATION METHOD WAS APPLIED FOR BOTH THE COLLECTION AND REVIEW OF EXISTING AVAILABLE BACKGROUND INFORMATION ON VEGETATION, SOILS, AND HYDROLOGY, AS WELL AS THE ON-SITE DELINEATION. SUPPLEMENTAL INFORMATION WAS PROVIDED BY THE NCNE REGIONAL SUPPLEMENT.

TIDAL DATUM NOTES:

1. TIDAL DATUMS WERE CALCULATED BY PRINCETON HYDRO, BASED UPON WATER LEVEL MONITORING IN THE NORTH COVE, AND USING THE NOAA CENTER FOR OPERATIONAL OCEANOGRAPHIC PRODUCTS AND SERVICES (CO-OPS) TIDAL ANALYSIS DATUM CALCULATOR.
2. NORTH COVE WATER LEVEL MONITORING WAS PERFORMED FROM APRIL 12, 2019 TO JULY 11, 2019, COLLECTED AT 6-MINUTE INTERVALS.
3. THE SHORT-TERM NORTH COVE WATER LEVEL DATA WAS CALIBRATED AGAIN LONG-TERM DATA OBTAINED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) TIDE GAUGE AT THE BATTERY, NY (STATION ID: 8518750; TIDAL EPOCH 1983-2001), LOCATED ACROSS THE HUDSON RIVER IN MANHATTAN APPROXIMATELY 1.5 MILES NORTH OF THE STUDY AREA.
4. TIDAL DATUM CALCULATED FOR 1983-2001 TIDAL EPOCH WERE PROJECTED TO THE 2001 - 2019 TIDAL EPOCH TO ACCOUNT FOR SEA LEVEL CHANGE. SEA LEVEL CHANGE VALUES WERE OBTAINED FROM REPORT TITLED NEW JERSEY'S RISING SEAS AND CHANGING COASTAL STORMS: REPORT OF THE 2019 SCIENCE AND TECHNICAL ADVISORY PANEL, WHICH REPORTED 0.3 FEET OF SEA LEVEL RISE IN NEW JERSEY BETWEEN THE TWO TIDAL EPOCHS.

CIVIL ABBREVIATIONS

ALUM.	ALUMINUM
B.L.	BASELINE
B.LDG.	BUILDING
C.L.	CENTERLINE
CULV.	CULVERT
DIA.	DIAMETER
DND	DO NOT DISTURB
EL.	ELEVATION
ELEV.	ELEVATION
EXT.	EXTERIOR
F.L.	FLOW LINE
FT.	FEET
HMA	HOT MIX ASPHALT
HORIZ.	HORIZONTAL
HP	HIGH POINT
INV.	INVERT
LBS	POUNDS
LF	LINEAR FEET
LP	LOW POINT
MRF	MANUFACTURER
MAX.	MAXIMUM
MIN.	MINIMUM
N.T.S	NOT TO SCALE
O.C.	ON CENTER
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.O.B.	POINT OF BEGINNING
P.O.E.	POINT OF END
P.T.	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RECP	ROLLED EROSION CONTROL PRODUCT
RELOC.	RELOCATED
R.O.W.	RIGHT OF WAY
SEC.	SECOND
SF	SQUARE FEET
SQ.FT.	SQUARE FEET
STA.	STATION
TBR	TO BE REMOVED
T.O.W.	TOP OF WALL
TRM	TURF REINFORCEMENT MAT
TYP.	TYPICAL
VERY.	VERTICAL

[illegible]

DESIGNED BY:	CAS	ISSUE DATE:	JANUARY 2023
DRAWN BY:	CAS	SOLICITATION NO.:	W912DS-19-F-0011
CHECKED BY:	JH/CP	CONTRACT NO.:	W912DS-14-D-0001
SUBMITTED BY:	PH/MDR		
		SIZE:	
		ANSI D	

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
&
NJDEP OFFICE OF NATURAL
RESOURCE RESTORATION

GENERAL NOTES

LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

SHEET ID

G-003

PHOTOGRAMMETRIC SURVEY CONTROL

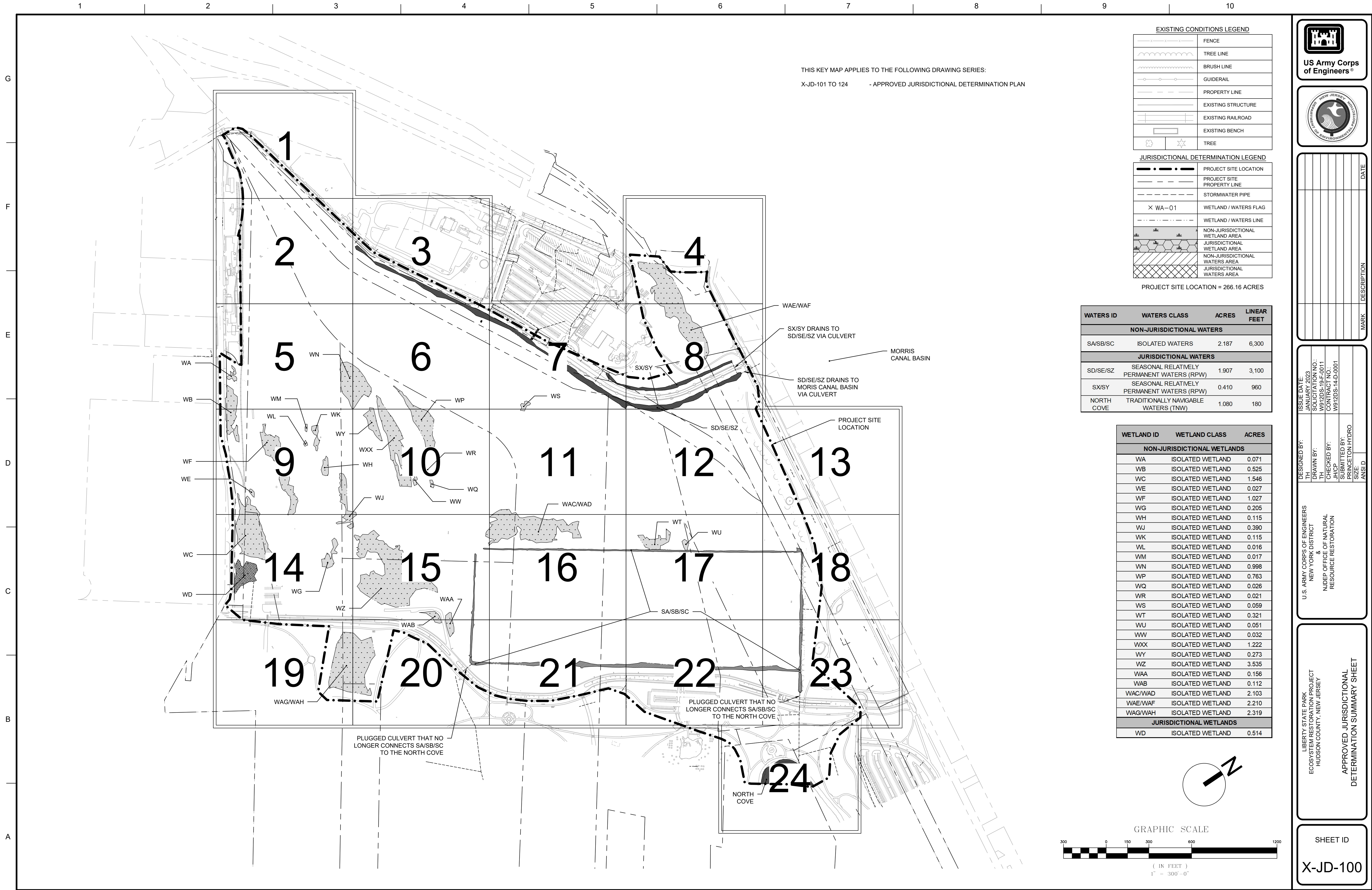
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1	681612.577	612704.430	11.91	CP-01
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3	683095.211	614662.647	13.86	CP-03
4	683968.539	615607.066	8.95	CP-04
5	683910.452	616462.082	6.15	CP-05
6	683677.485	617339.044	6.56	CP-06
7	683485.223	618527.894	5.42	CP-07
8	683331.149	619590.006	5.36	CP-08
9	681992.618	619064.024	9.56	CP-09
10	681027.928	616647.015	7.53	CP-10
11	679731.698	616345.271	7.77	CP-11
12	679974.125	615530.067	6.03	CP-12
13	680505.423	614644.622	7.63	CP-13
14	680856.999	614063.900	6.81	CP-14
15	681304.596	613385.797	5.39	CP-15
16	681873.712	615322.539	7.42	CP-16
17	682902.642	615547.246	9.80	CP-17
18	682917.699	616571.939	8.09	CP-18
19	681441.990	616082.564	7.01	CP-19
20	682840.284	617753.260	8.62	CP-20
21	681362.496	618047.005	8.44	CP-21
22	681521.153	614644.065	7.64	CP-22
23	682105.038	616876.285	9.49	CP-23
24	682577.821	619519.366	8.35	CP-24
25	683174.118	620052.147	5.87	CP-25

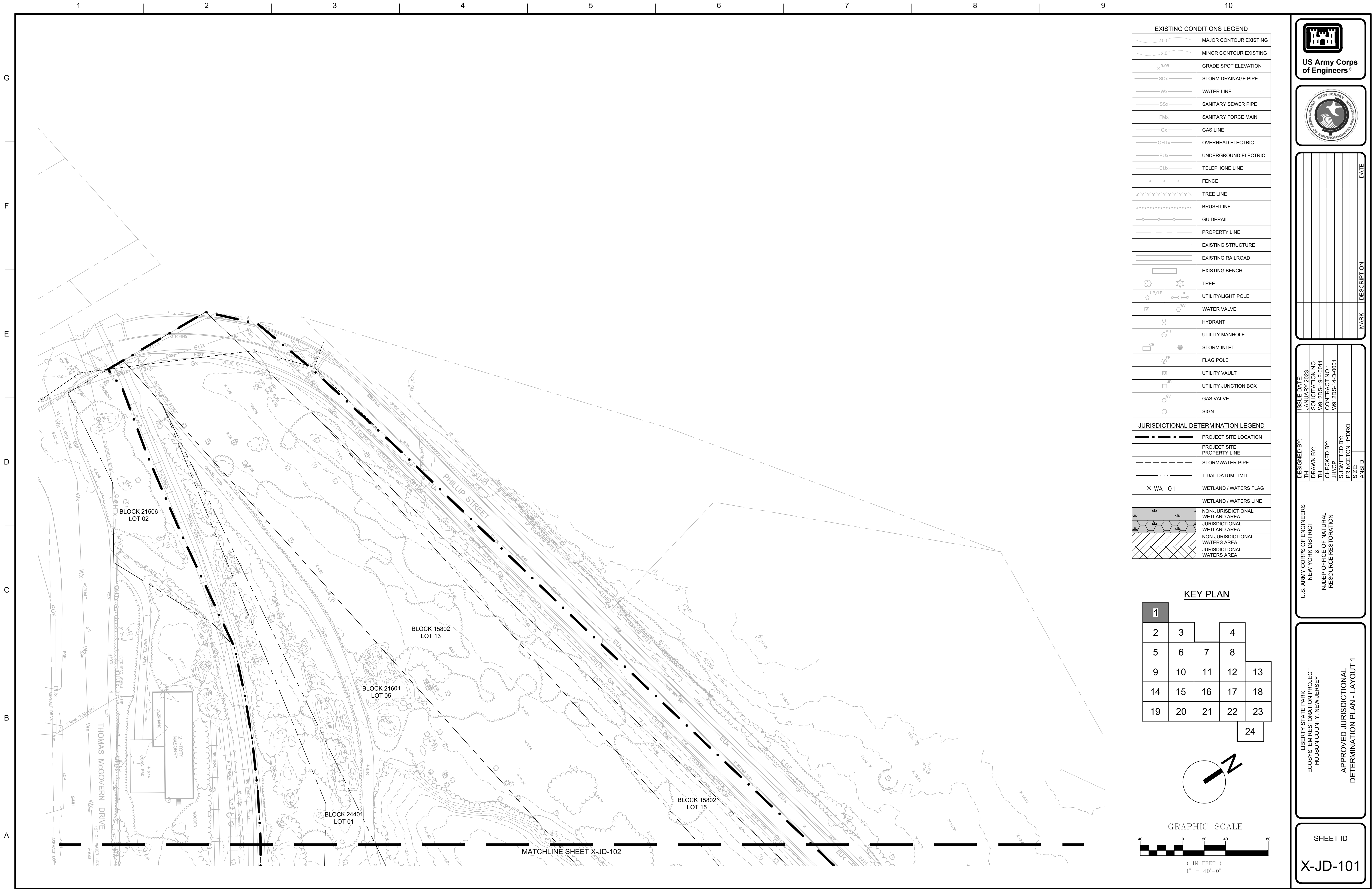
TIDAL DATUMS AT THE NORTH COVE

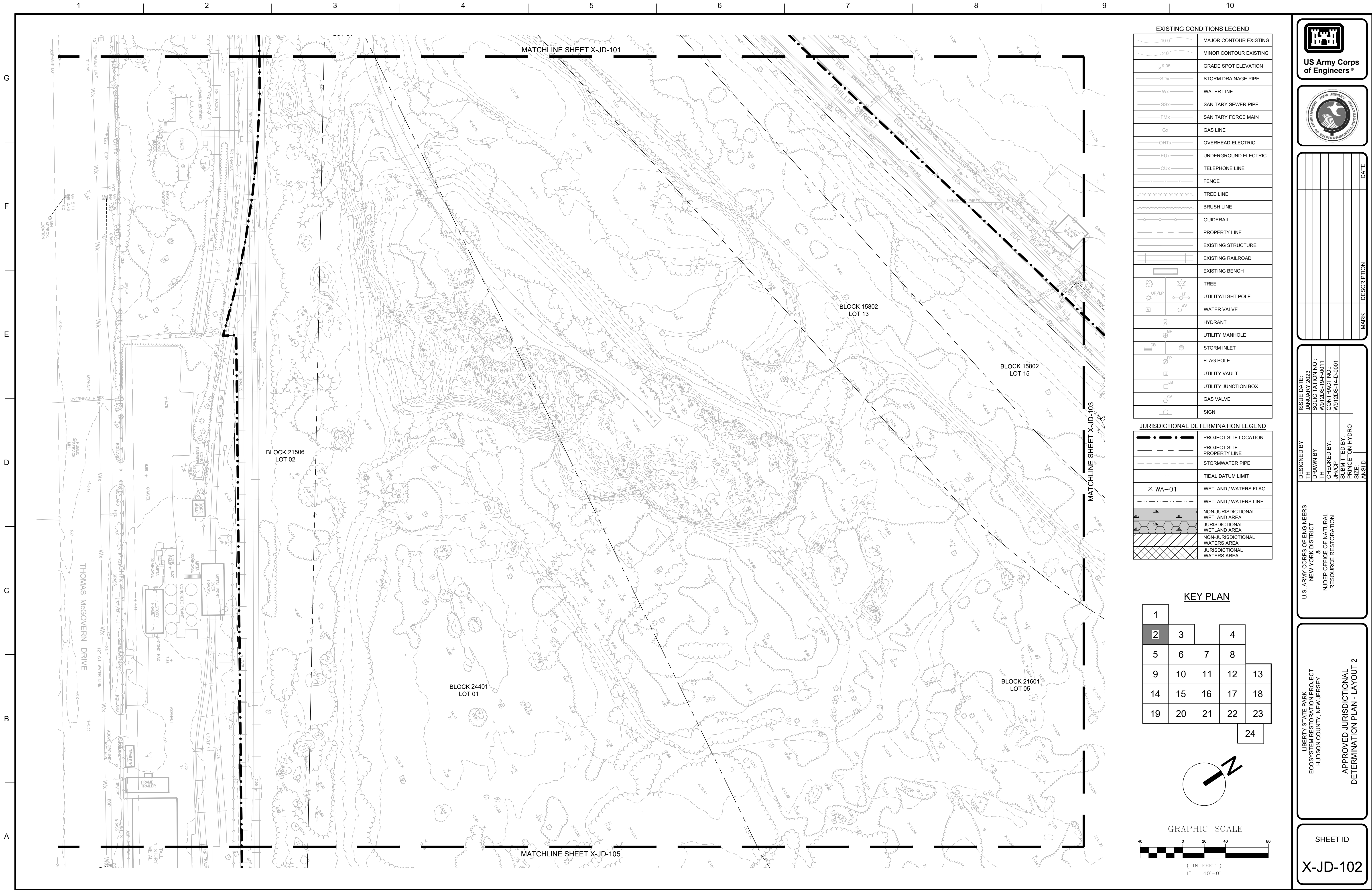
TIDAL DATUM	WATER SURFACE ELEVATION ** (NAVD88 FEET)
MEAN HIGH WATER SPRING (MHWS)*	3.89
MEAN HIGHER HIGH WATER (MHHW)	2.68
MEAN HIGH WATER (MHW)	2.38
MEAN TIDE LEVEL (MTL)	0.16
MEAN LOW WATER (MLW)	-2.06
MEAN LOWER LOW WATER (MLLW)	-2.29

* PROJECT TIME PERIOD ONLY, DOES NOT ACCOUNT FOR LONG TERM DATA

** ELEVATIONS ARE REFERENCED TO THE 2001 TO 2020 TIDAL EPOCH (2010 BASELINE).



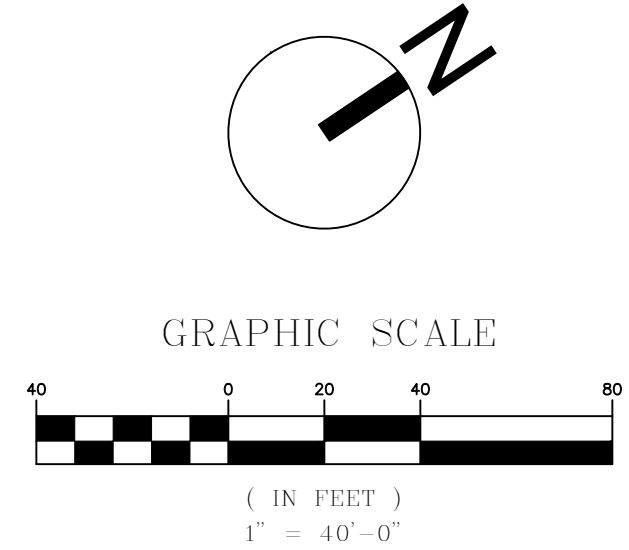




EXISTING CONDITIONS LEGEND	
	MAJOR CONTOUR EXISTING
	MINOR CONTOUR EXISTING
	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDRAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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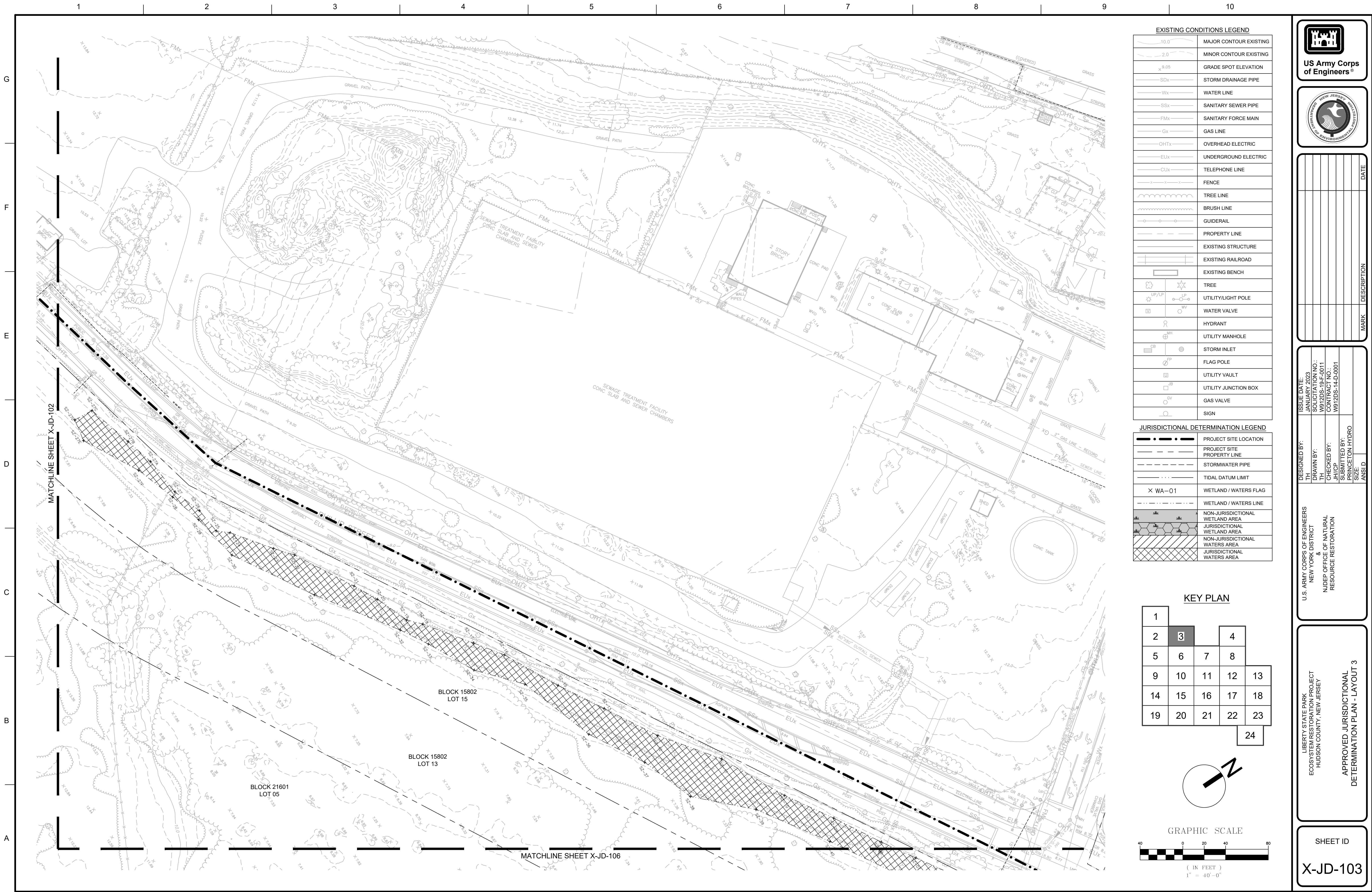
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

DESIGNED BY: PL	ISSUE DATE: 12/15/23
DRAWN BY: TH	SUBMITTAL NO.: W912DS-14-E-0011
CHECKED BY: JH/CP	CONTRACT NO.: W912DS-14-D-0001
SUBMITTED BY: PRINCETON HYDRO	
SIZE	ANSI D

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 2

SHEET ID
X-JD-102

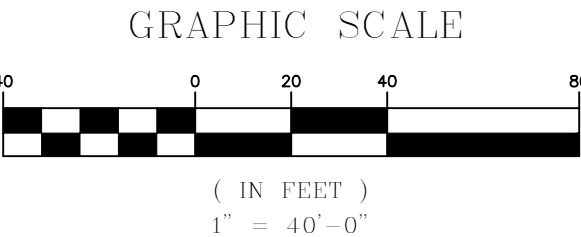
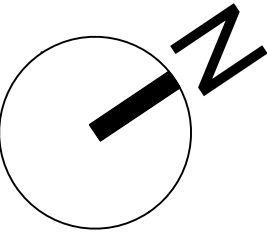


EXISTING CONDITIONS LEGEND	
	MAJOR CONTOUR EXISTING
	MINOR CONTOUR EXISTING
	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDRAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN

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W912DS-14D-0001	
SUBMITTED BY:	
PRINCETON HYDRO	
SIZE:	
ANSI D	

DESIGNED BY:

TH

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LIBERTY STATE PARK

ECOSYSTEM RESTORATION PROJECT

HUDSON COUNTY, NEW JERSEY

CHECKED BY:

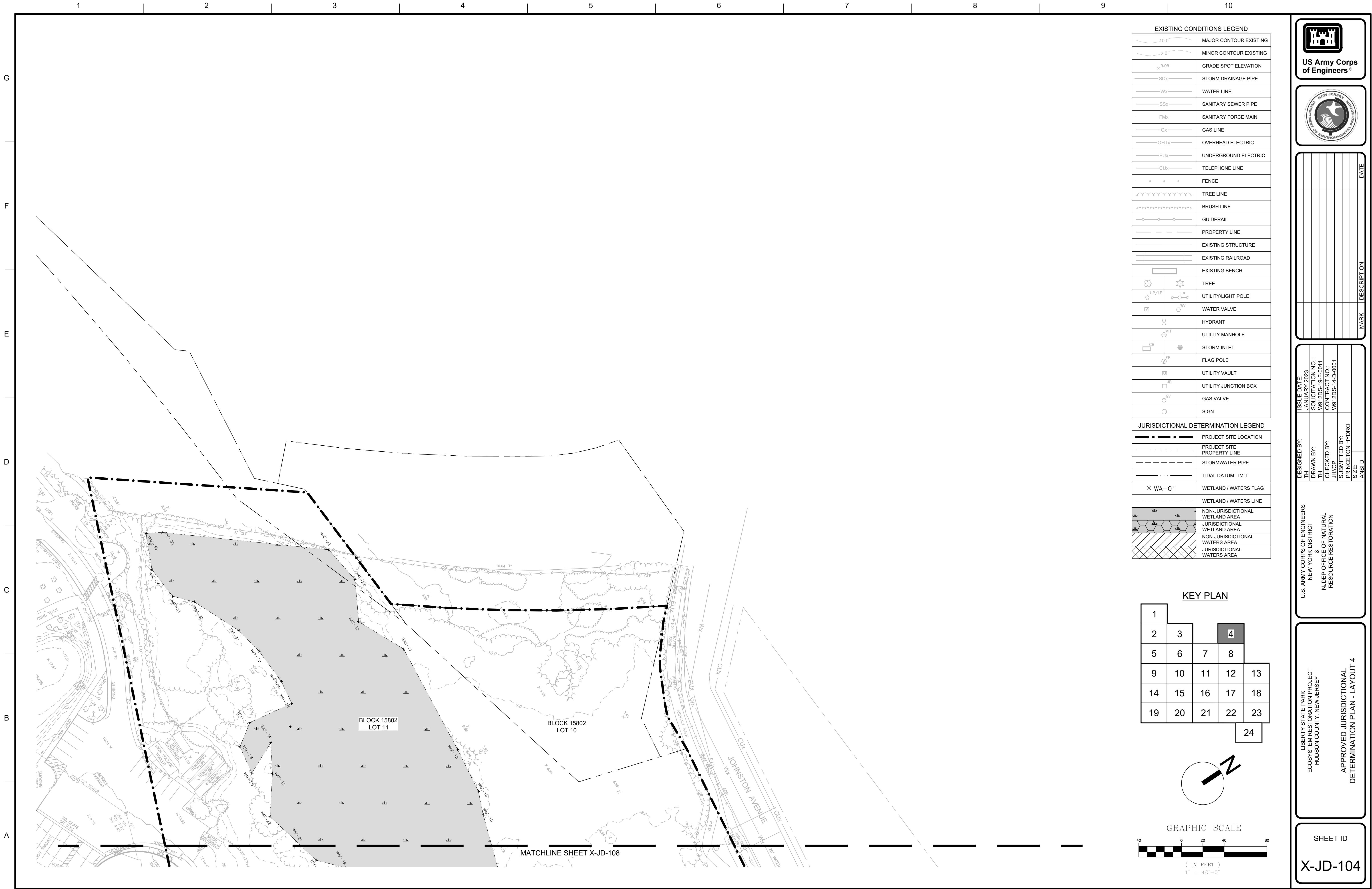
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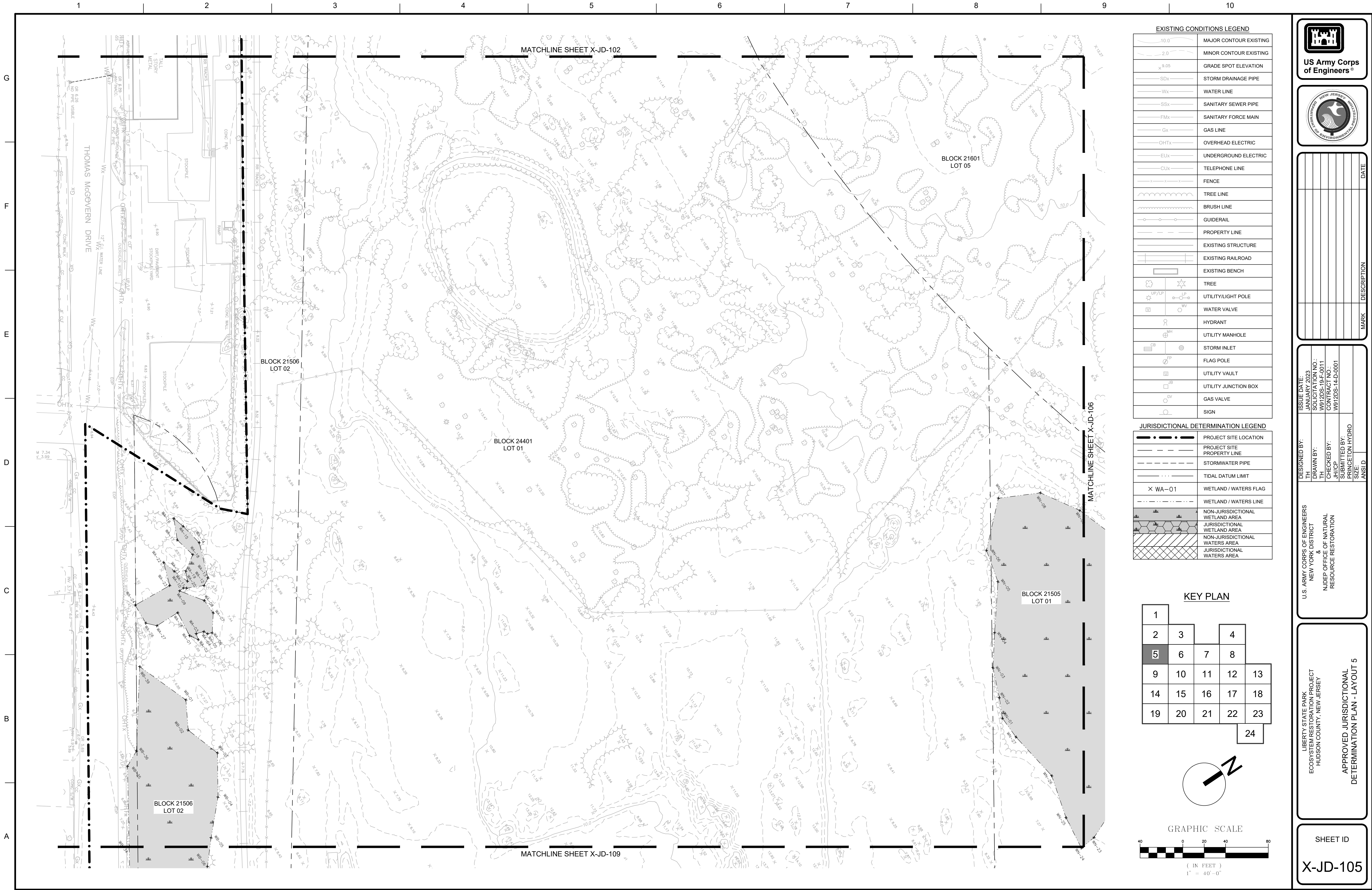
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DETERMINATION PLAN - LAYOUT 3

SHEET ID

X-JD-103

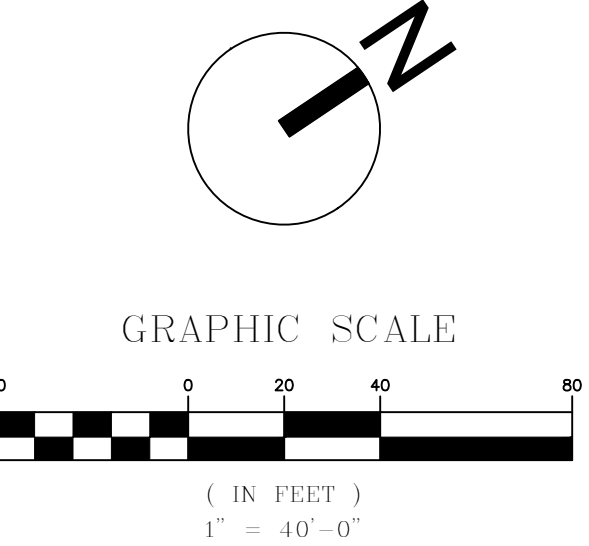




EXISTING CONDITIONS LEGEND	
	MAJOR CONTOUR EXISTING
	MINOR CONTOUR EXISTING
	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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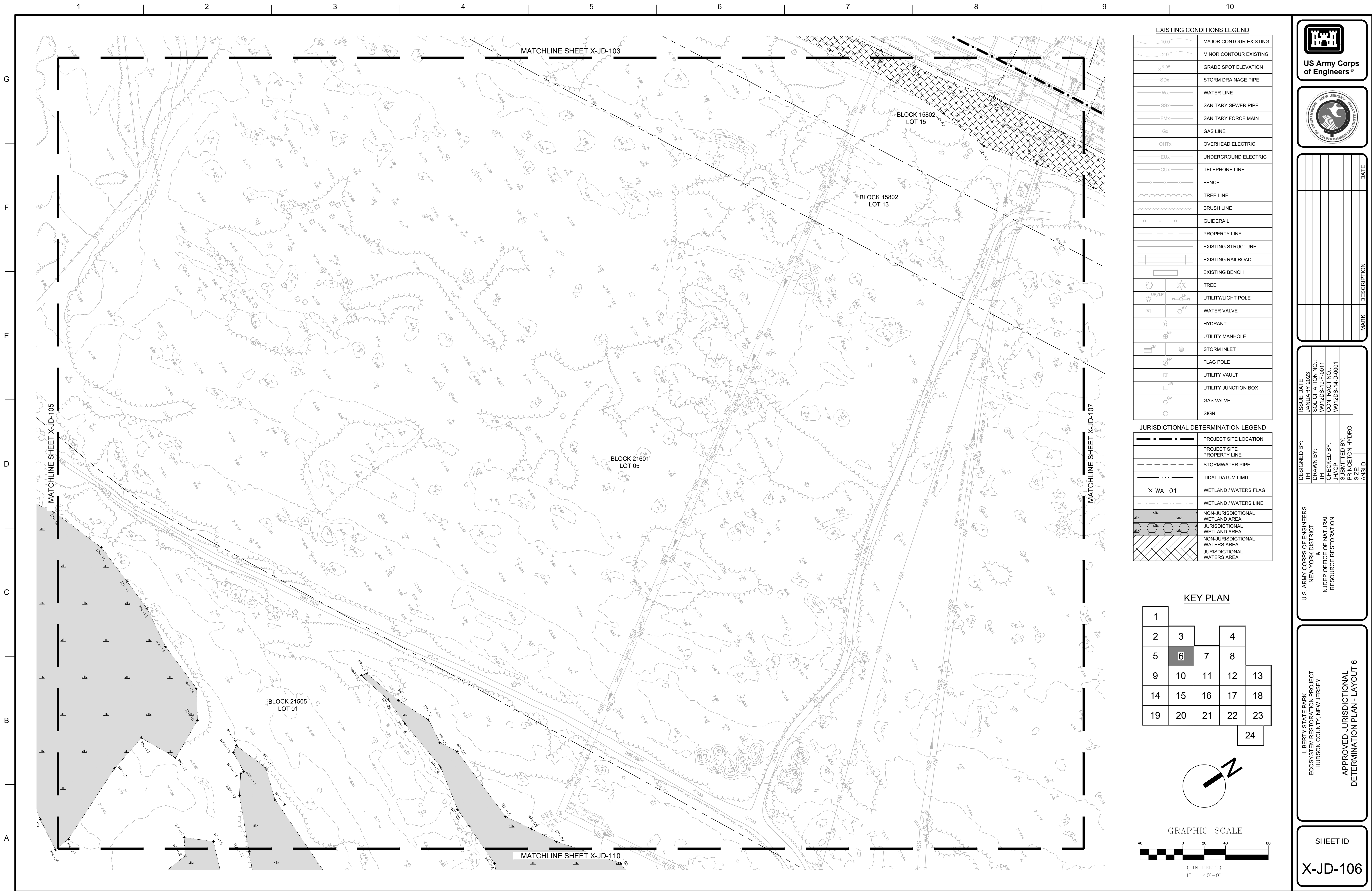
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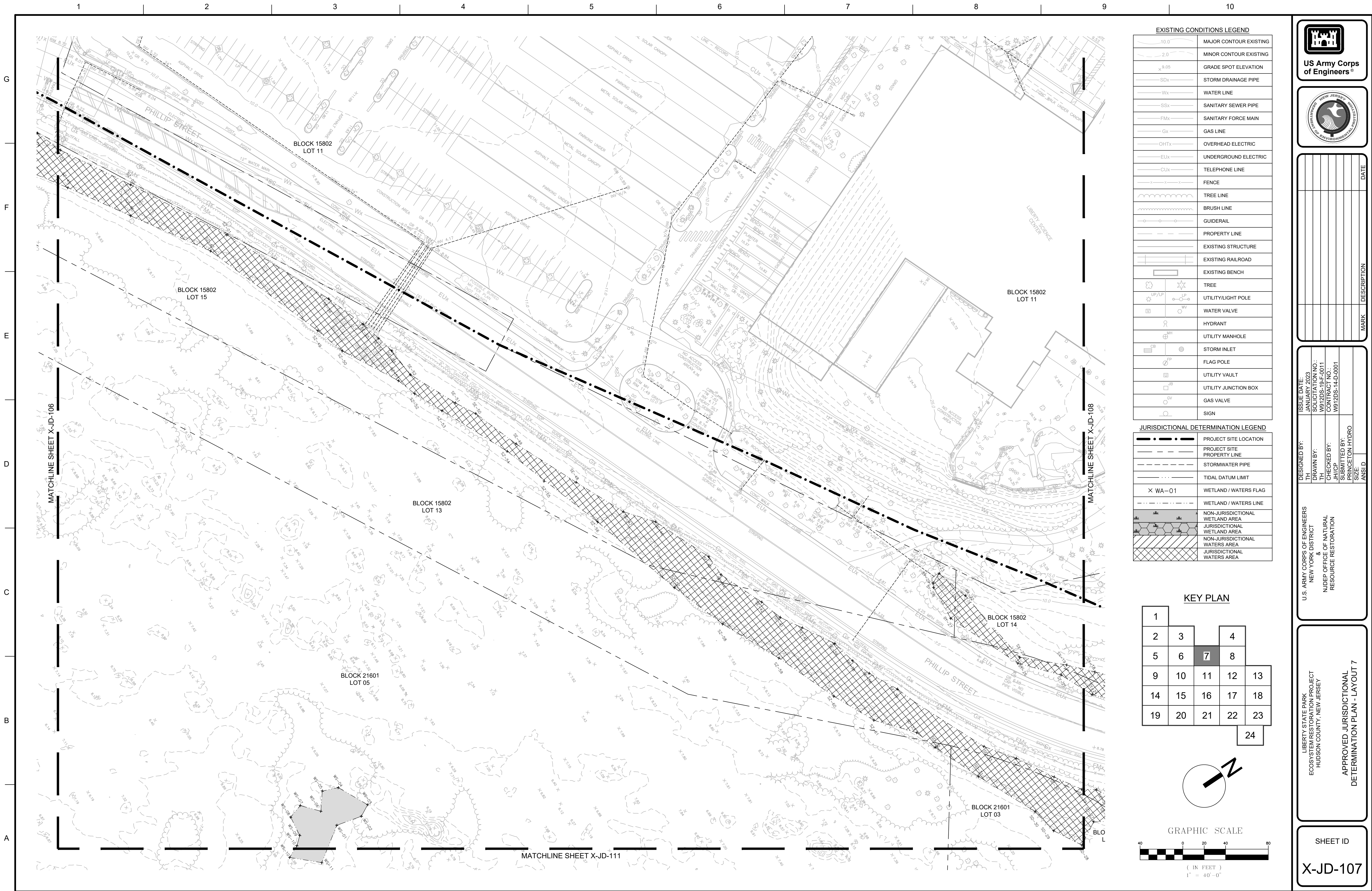
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

ISSUE DATE: JAN 2023	DESIGNED BY: TH	U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT LIBERTY STATE PARK ECOSYSTEM RESTORATION PROJECT HUDSON COUNTY, NEW JERSEY
SUBMITTAL NO.: W912DS-14F-0011	DRAWN BY: TH	
CONTRACT NO.: W912DS-14D-0001	CHECKED BY: JH/CP	
	SUBMITTED BY: PRINCETON HYDRO	
	SIZE: ANSI D	APPROVED JURISDICTIONAL DETERMINATION PLAN - LAYOUT 5

SHEET ID

X-JD-105

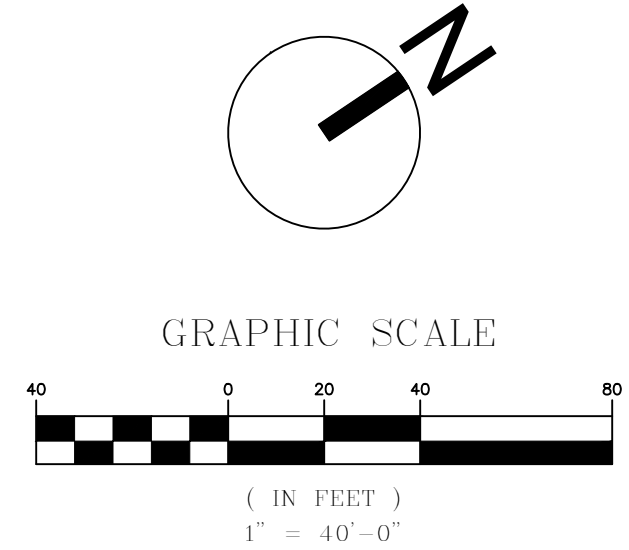




EXISTING CONDITIONS LEGEND	
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	MINOR CONTOUR EXISTING
	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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LAST DATE:	
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W912DS-14E-0011	
CONTRACT NO.:	
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SUBMITTED BY:	
PRINCETON HYDRO	
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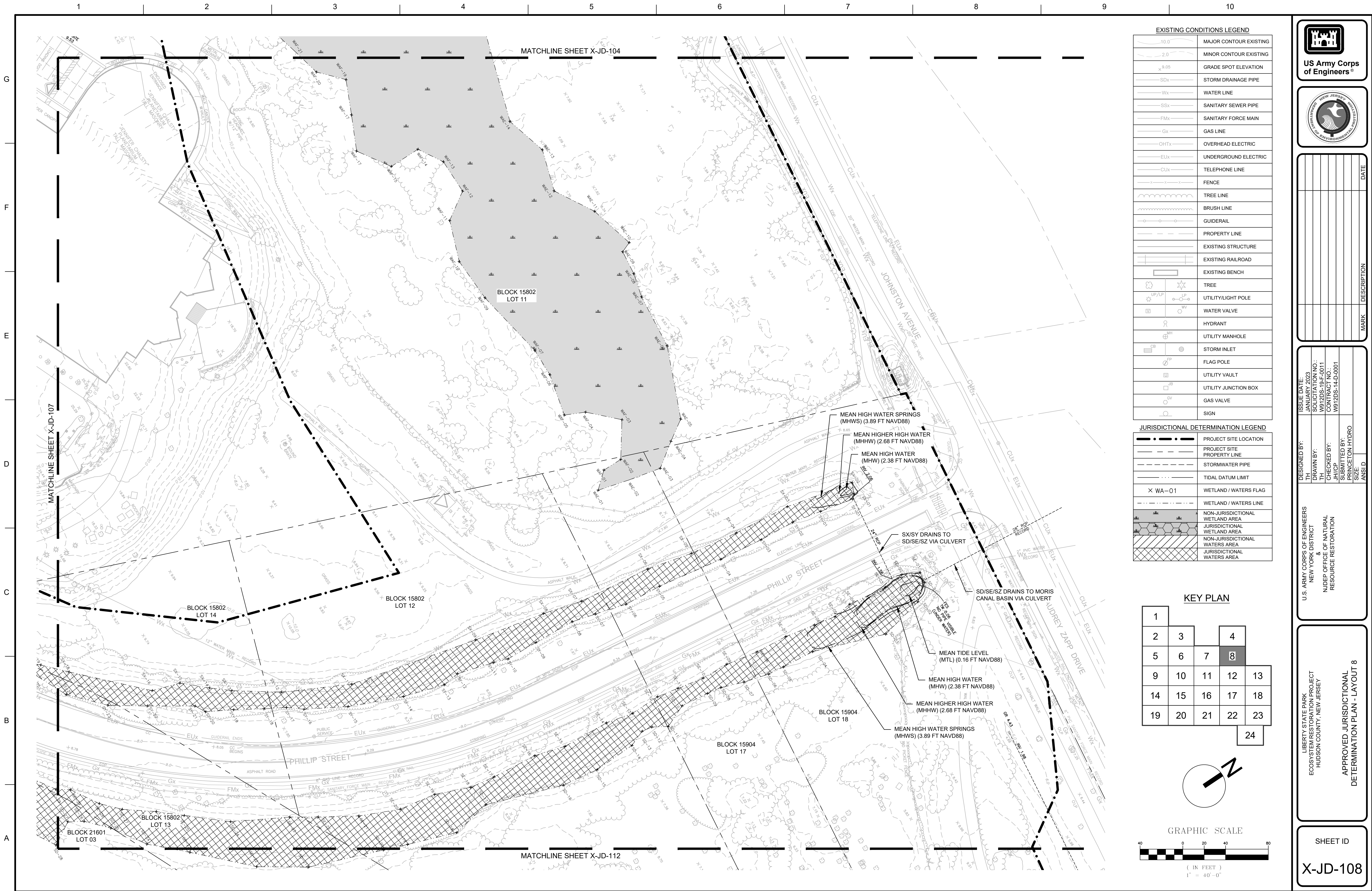
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SUBMITTED BY:	PRINCETON HYDRO
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NEW YORK DISTRICT
NIDEP OFFICE OF NATURAL
RESOURCE RESTORATION

LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 7

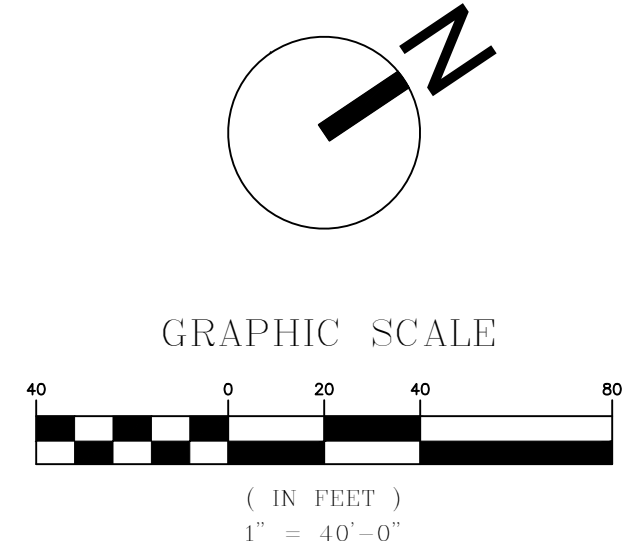
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X-JD-107



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	GRADE SPOT ELEVATION
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	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
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	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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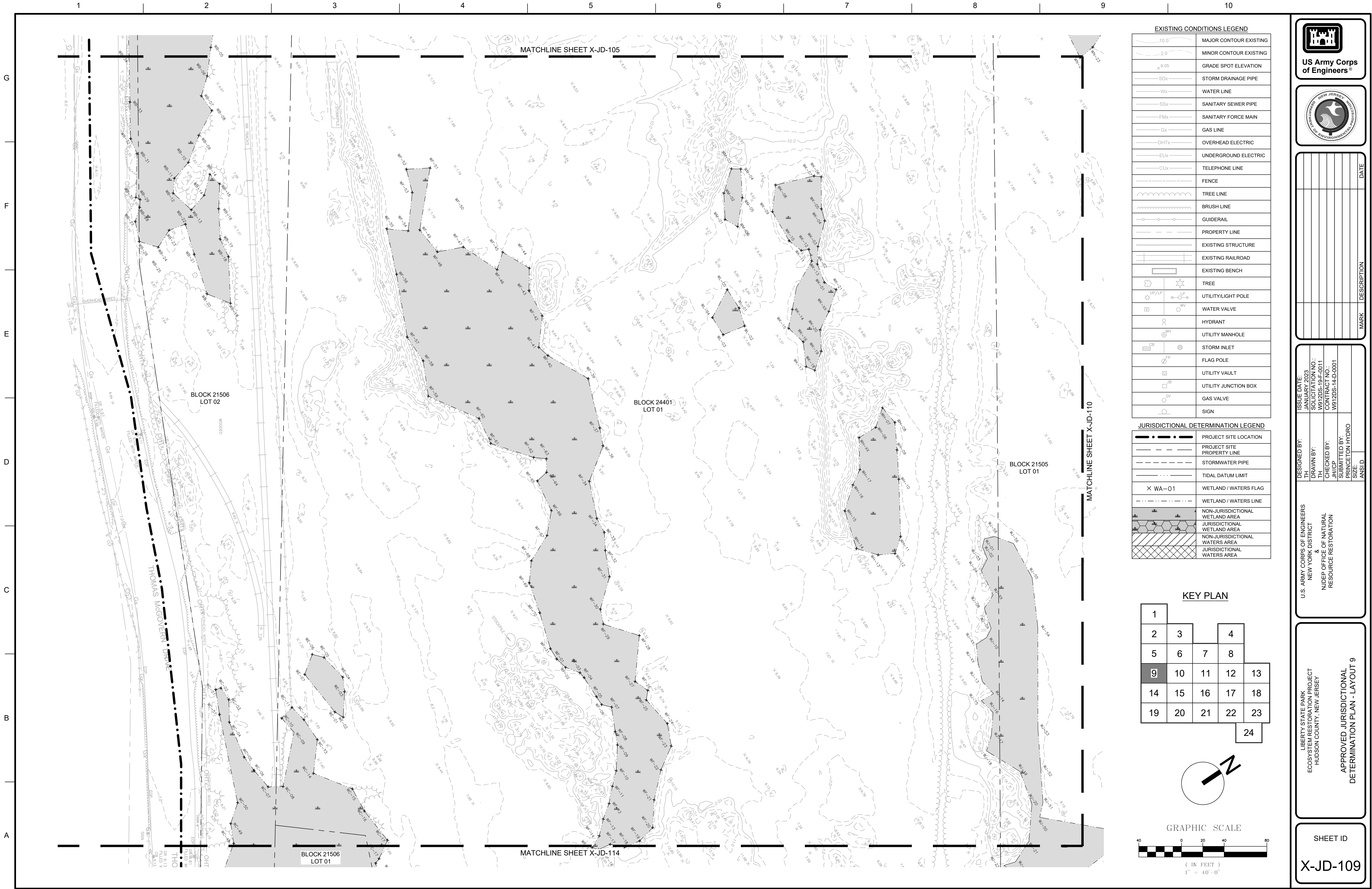
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ISSUE DATE: JAN 2023	DESIGNED BY: TH	U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT
SUBMITTAL NO.: W912DS-14-D-001	DRAWN BY: TH	ECOSYSTEM RESTORATION PROJECT HUDSON COUNTY, NEW JERSEY
CONTRACT NO.: W912DS-14-D-001	CHECKED BY: JH/CP	NIDEP OFFICE OF NATURAL RESOURCE RESTORATION
	SUBMITTED BY: PRINCETON HYDRO	
	SIZE: ANSI D	

APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 8

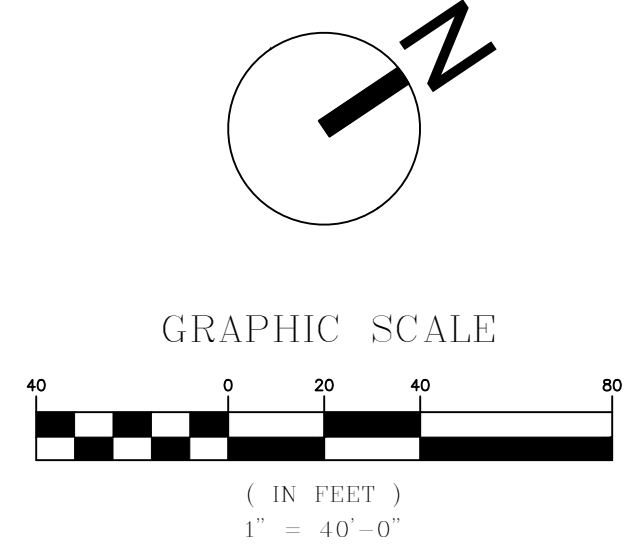
SHEET ID
X-JD-108



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	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
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	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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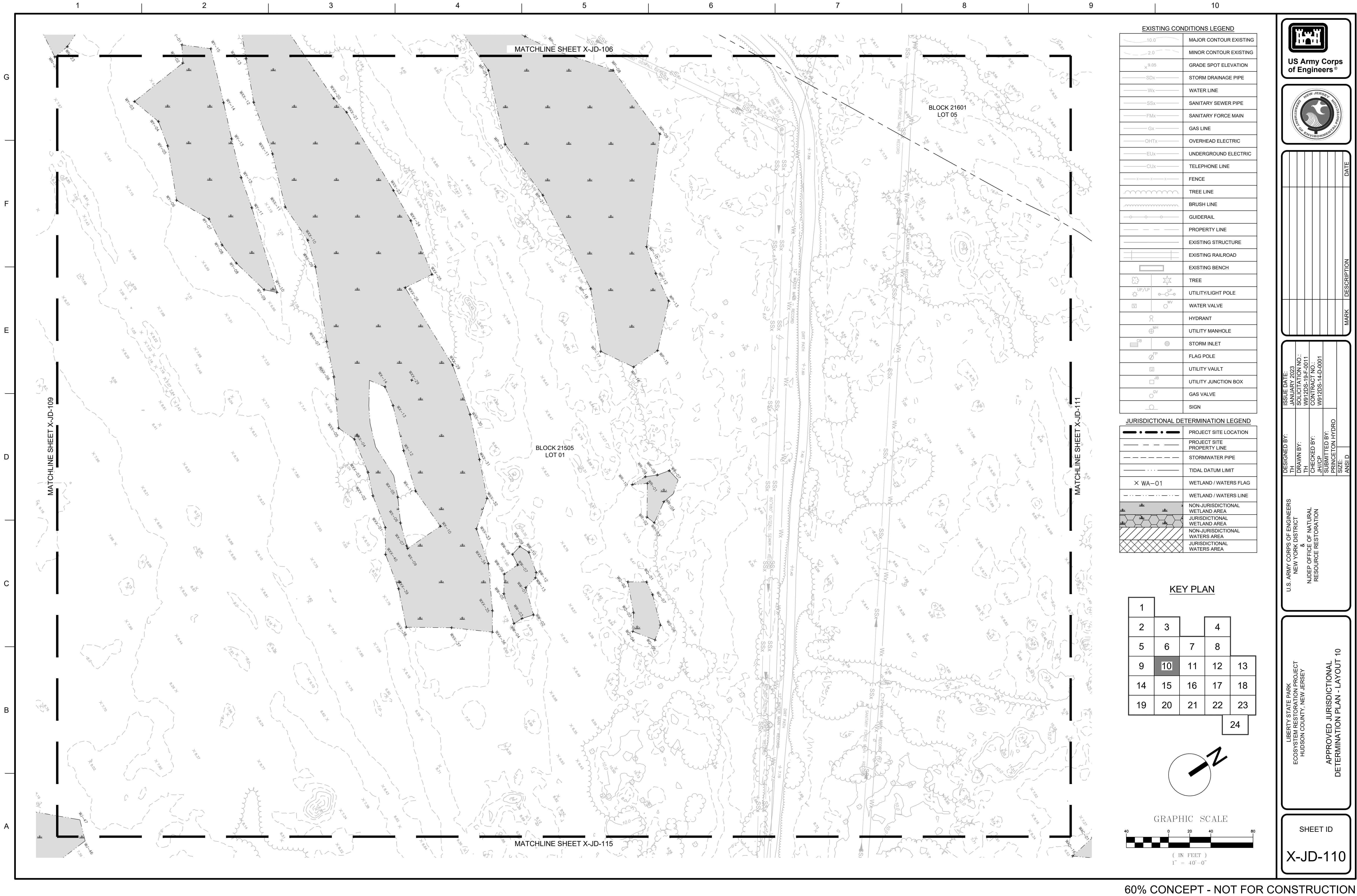
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SUBMITTED BY: PRINCETON HYDRO	
SIZE	ANSI D

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NEW YORK DISTRICT
LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

NIDEP OFFICE OF NATURAL
RESOURCE RESTORATION

APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 9

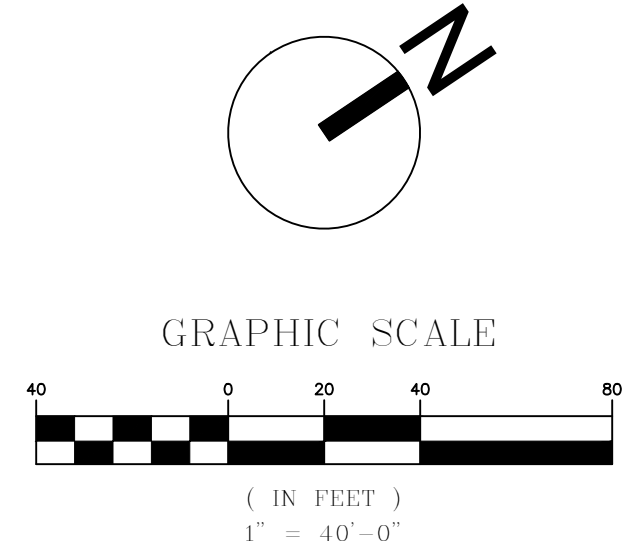
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EXISTING CONDITIONS LEGEND	
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	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
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	EXISTING STRUCTURE
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	UTILITY VAULT
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JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
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	STORMWATER PIPE
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	WETLAND / WATERS FLAG
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	JURISDICTIONAL WATERS AREA

KEY PLAN				
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US Army Corps of Engineers

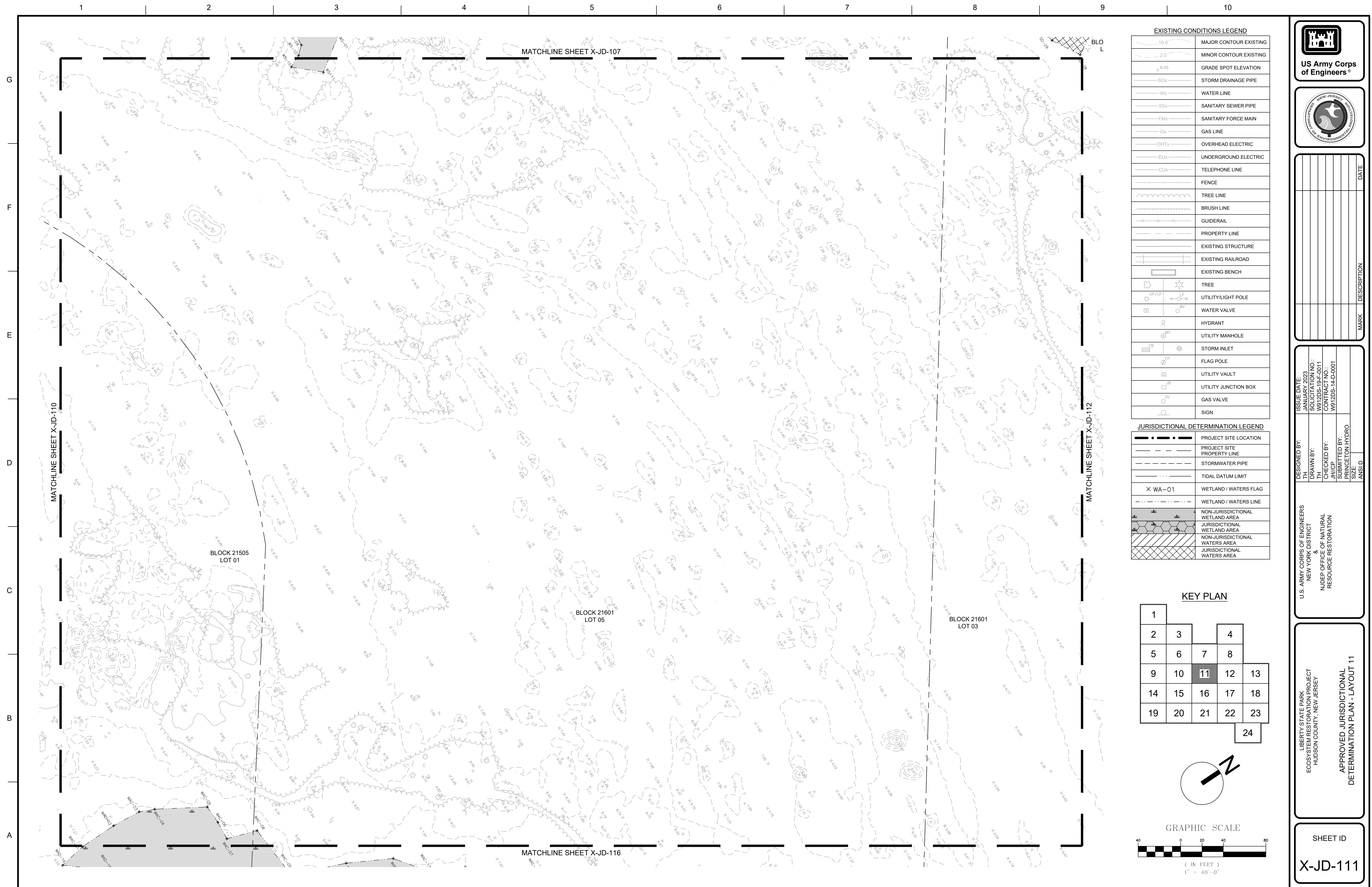
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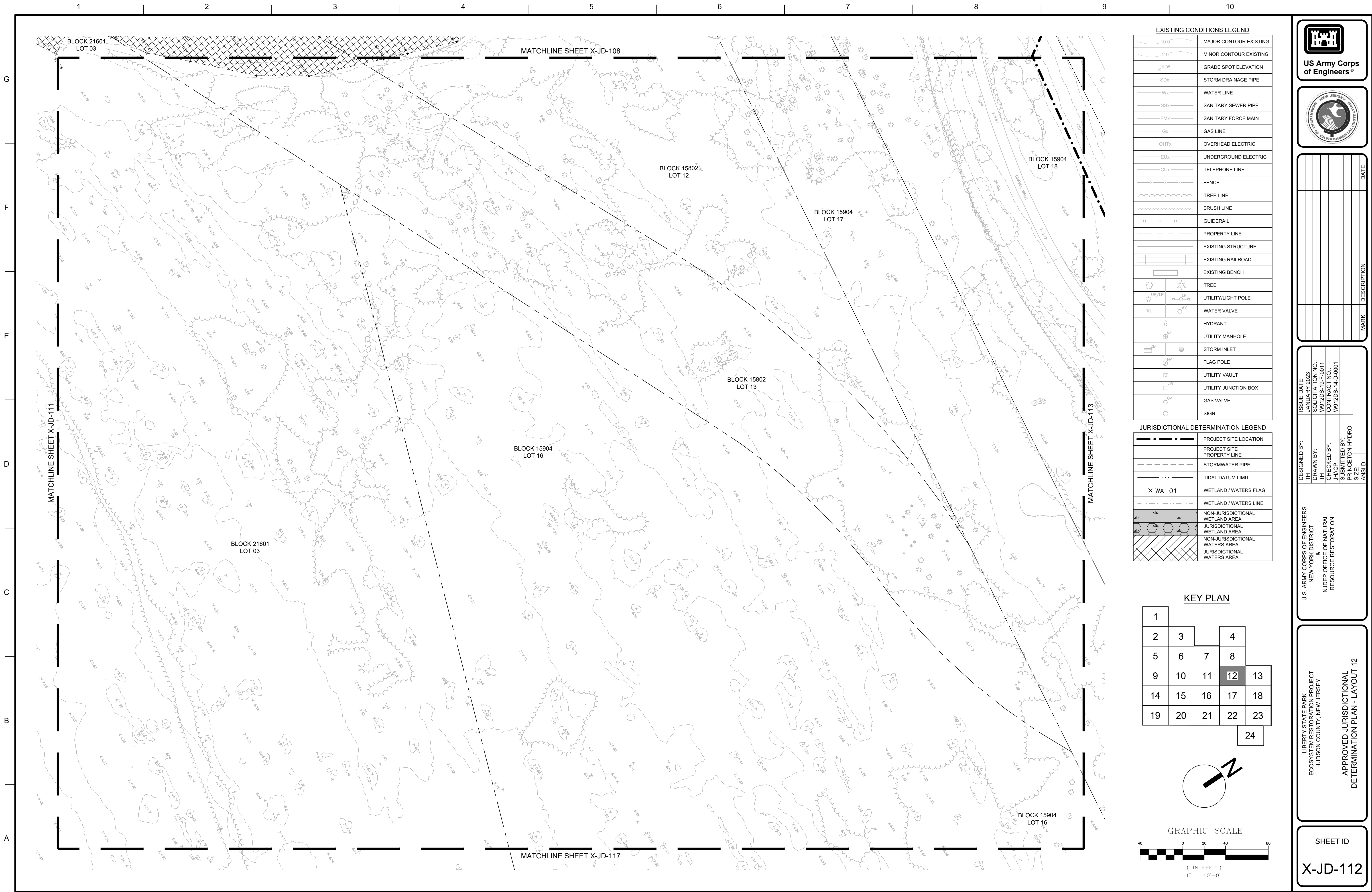
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PRINCETON HYDRO	DATE:
SIZE:	DATE:
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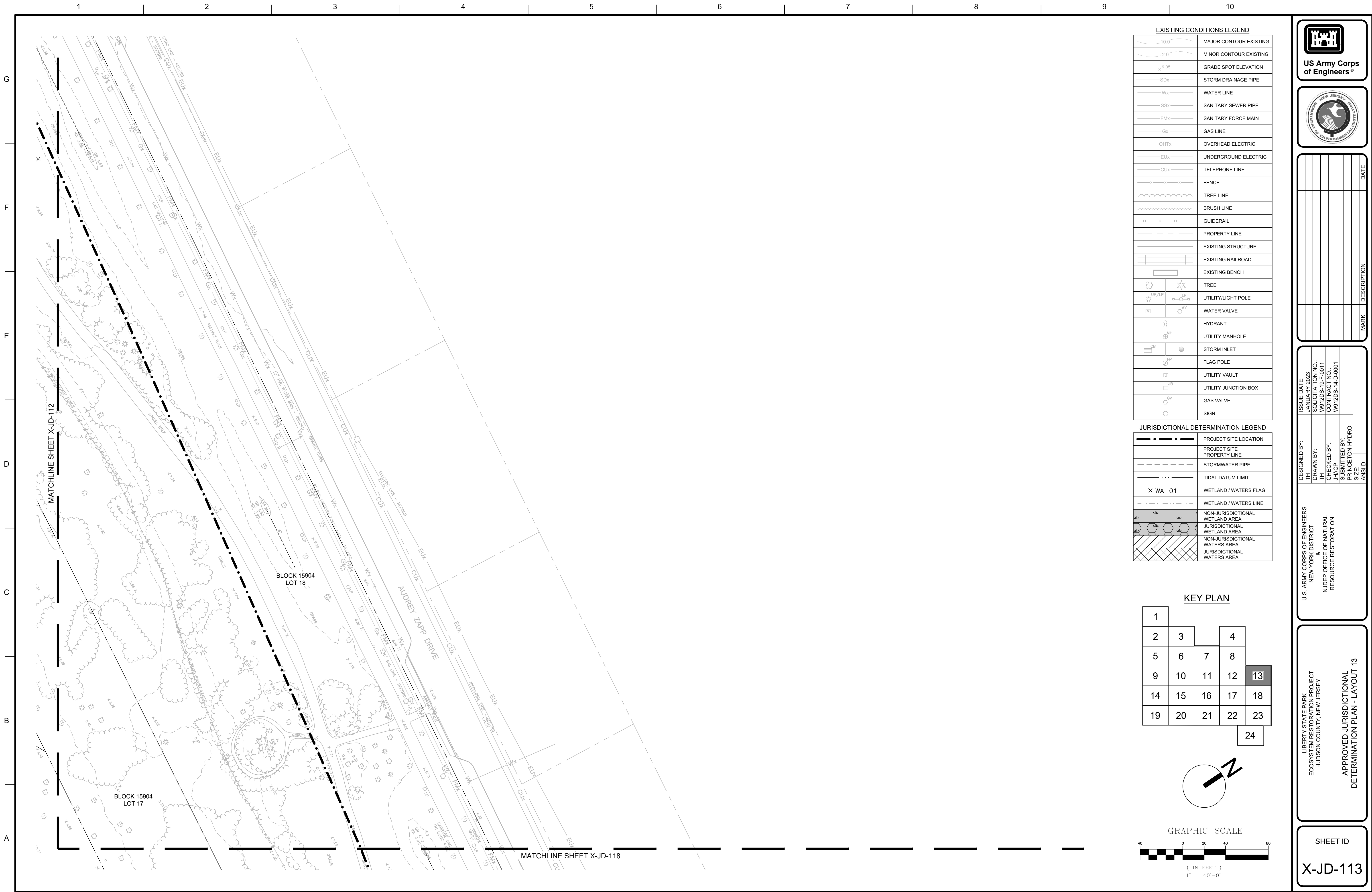
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DRAWN BY:	NEW YORK DISTRICT
CHECKED BY:	ECOSYSTEM RESTORATION PROJECT
SUBMITTED BY:	HUDSON COUNTY, NEW JERSEY
PRINCETON HYDRO	

LIBERTY STATE PARK	APPROVED JURISDICTIONAL
ECOSYSTEM RESTORATION PROJECT	DETERMINATION PLAN - LAYOUT 10
HUDSON COUNTY, NEW JERSEY	

SHEET ID
X-JD-110



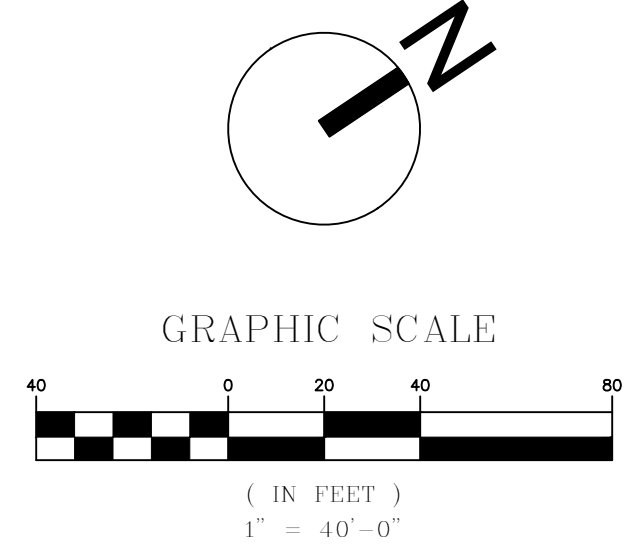




EXISTING CONDITIONS LEGEND	
	MAJOR CONTOUR EXISTING
	MINOR CONTOUR EXISTING
	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
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	TELEPHONE LINE
	FENCE
	TREE LINE
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	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
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	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
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	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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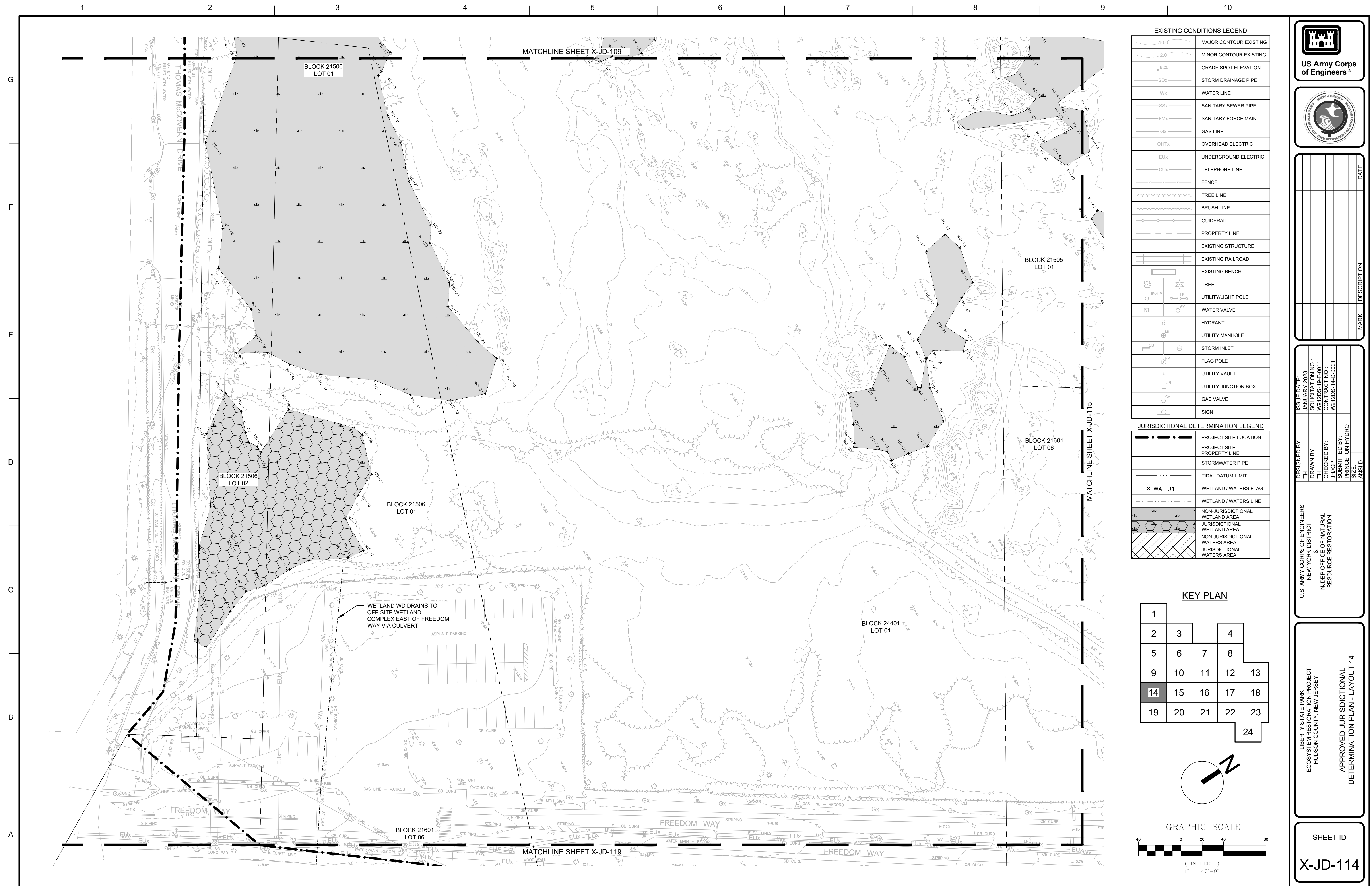
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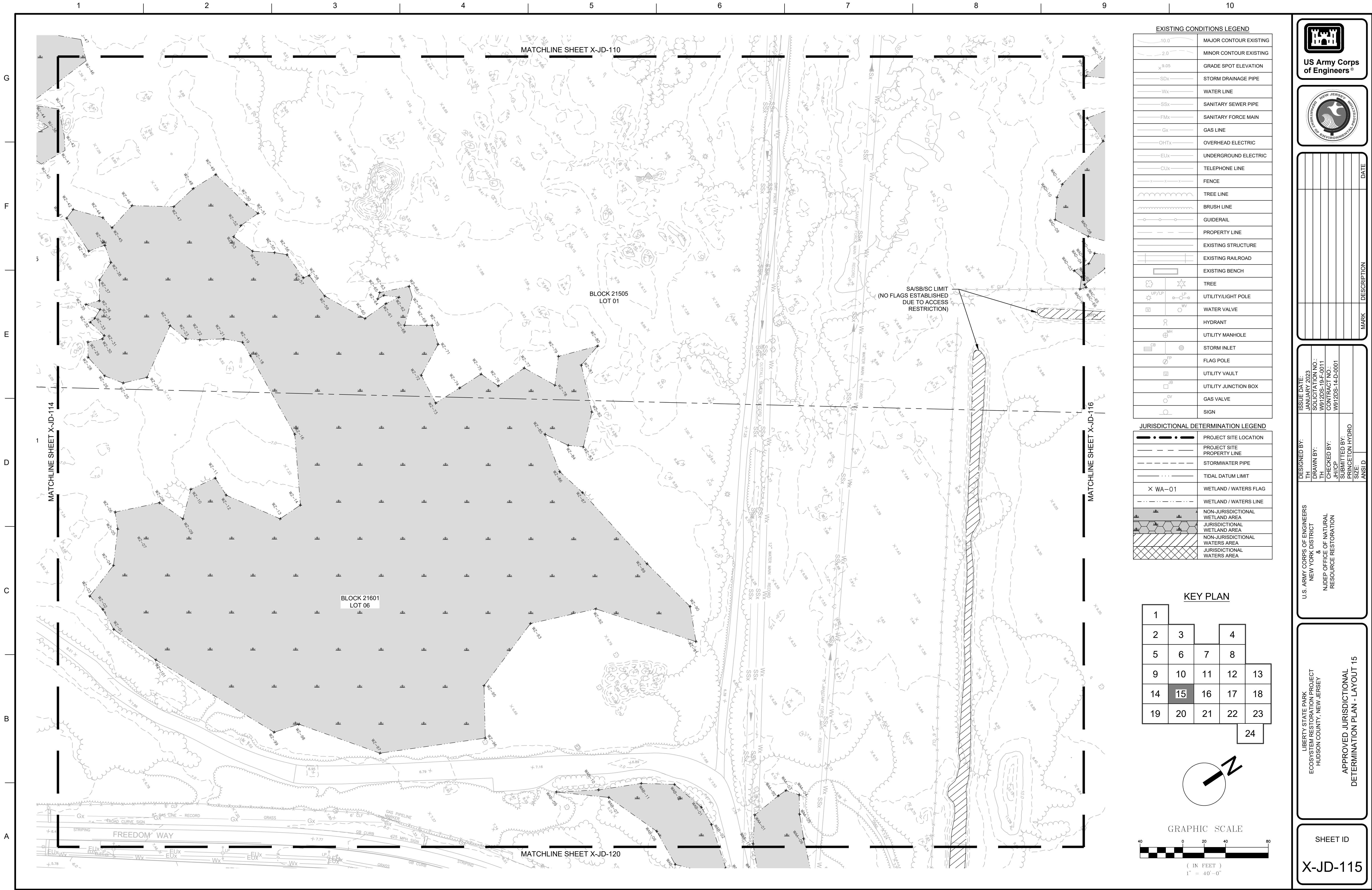
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

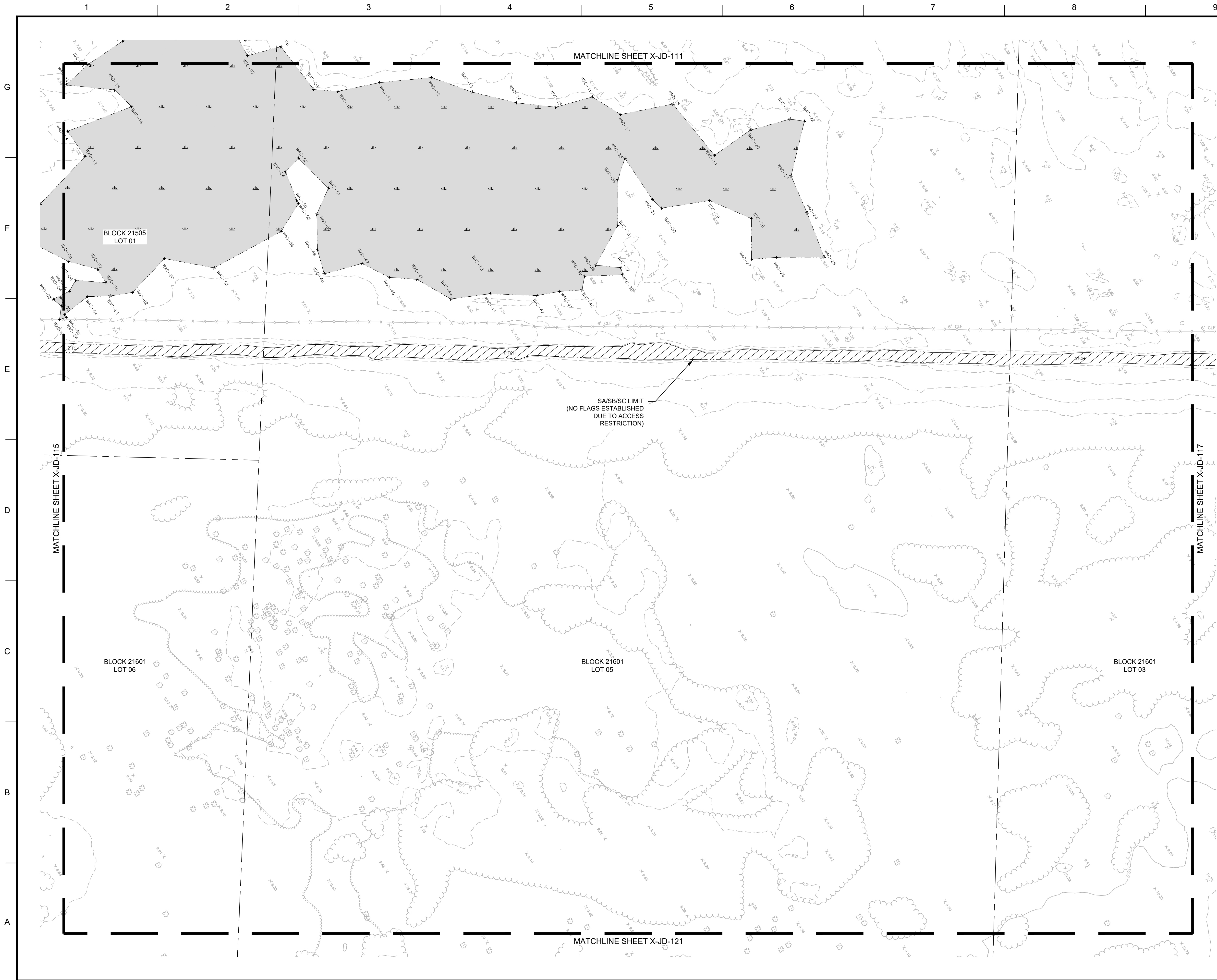
ISSUE DATE: JAN 2023	DESIGNED BY: TH	U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT ECOSYSTEM RESTORATION PROJECT HUDSON COUNTY, NEW JERSEY	APPROVED JURISDICTIONAL DETERMINATION PLAN - LAYOUT 13
SOLUTION NO.: W912DS-14E-0011	DRAWN BY: TH		
CONTRACT NO.: W912DS-14D-0001	CHECKED BY: JH/CP		
	SUBMITTED BY: PRINCETON HYDRO		
	SIZE: ANSI D		

SHEET ID

X-JD-113



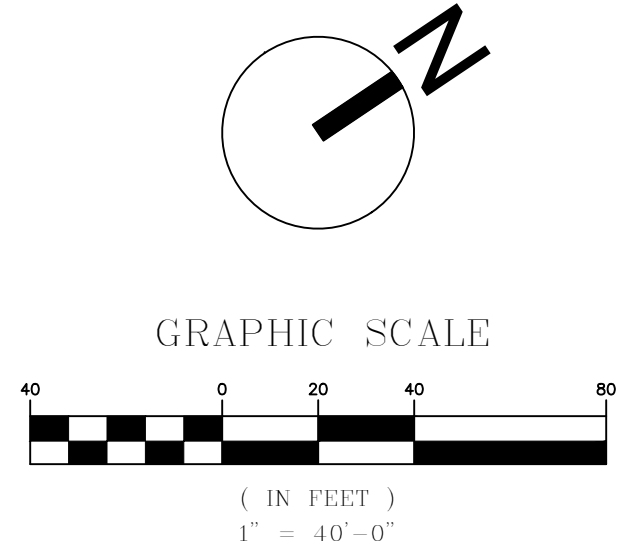




EXISTING CONDITIONS LEGEND	
	MAJOR CONTOUR EXISTING
	MINOR CONTOUR EXISTING
	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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US Army Corps of Engineers

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

ISSUE DATE:	DATE:
LAST DATE:	
SOLUTION NO.:	
CONTRACT NO.:	
PROJECT NO.:	

DESIGNED BY:	PROJECT NO.:
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SUBMITTED BY:	PROJECT NO.:
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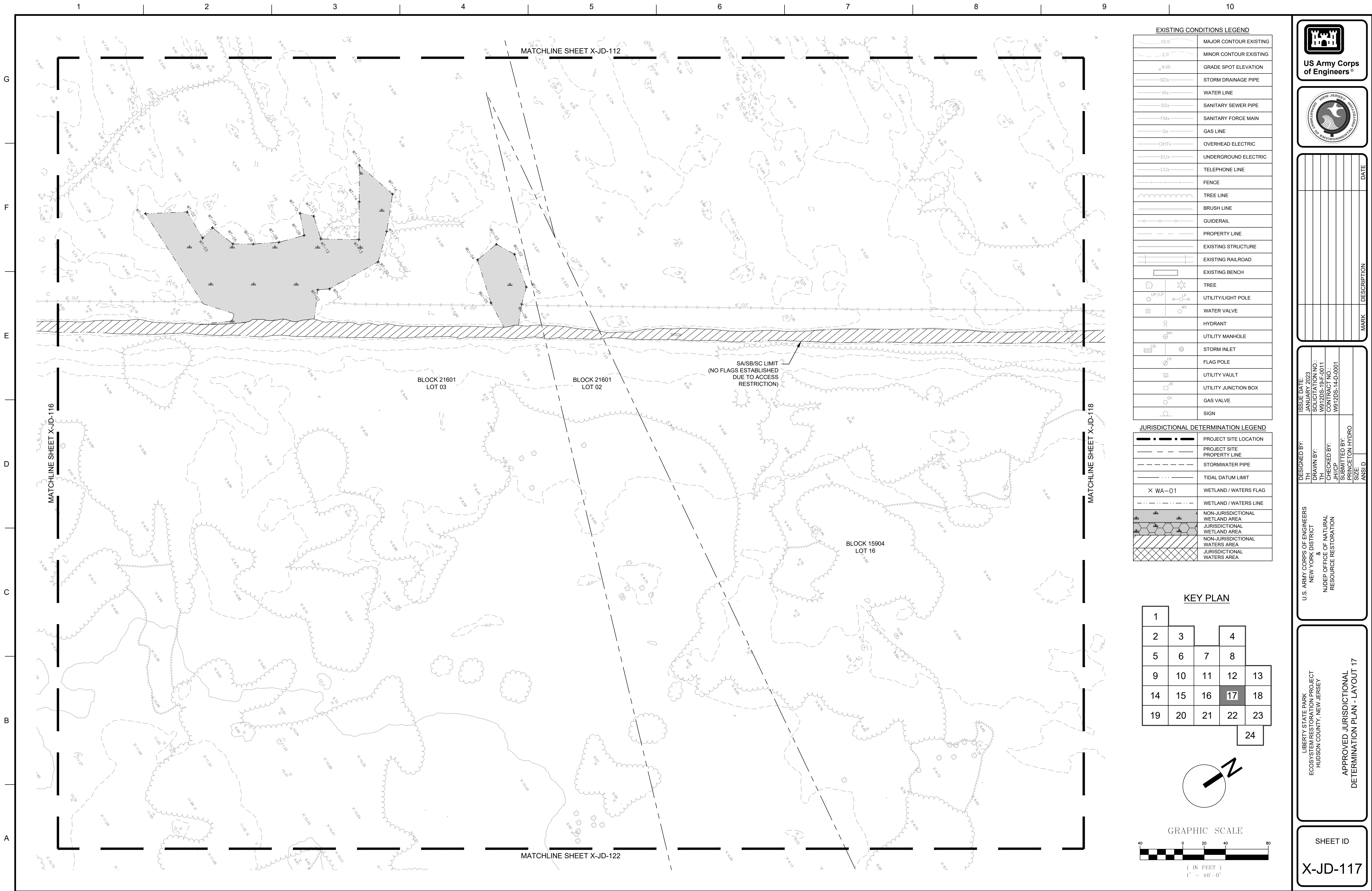
U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
NIDEP OFFICE OF NATURAL
RESOURCE RESTORATION

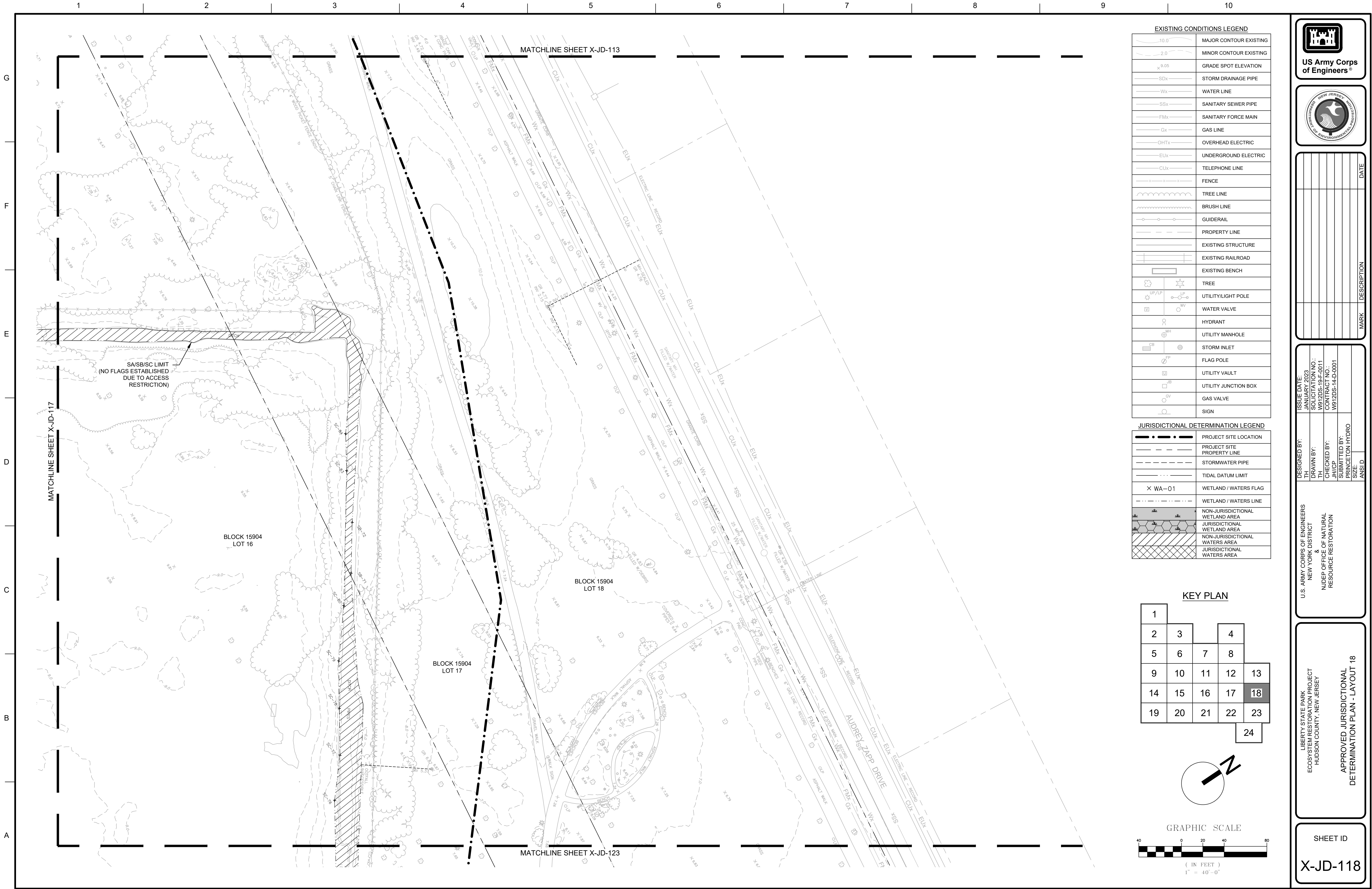
LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

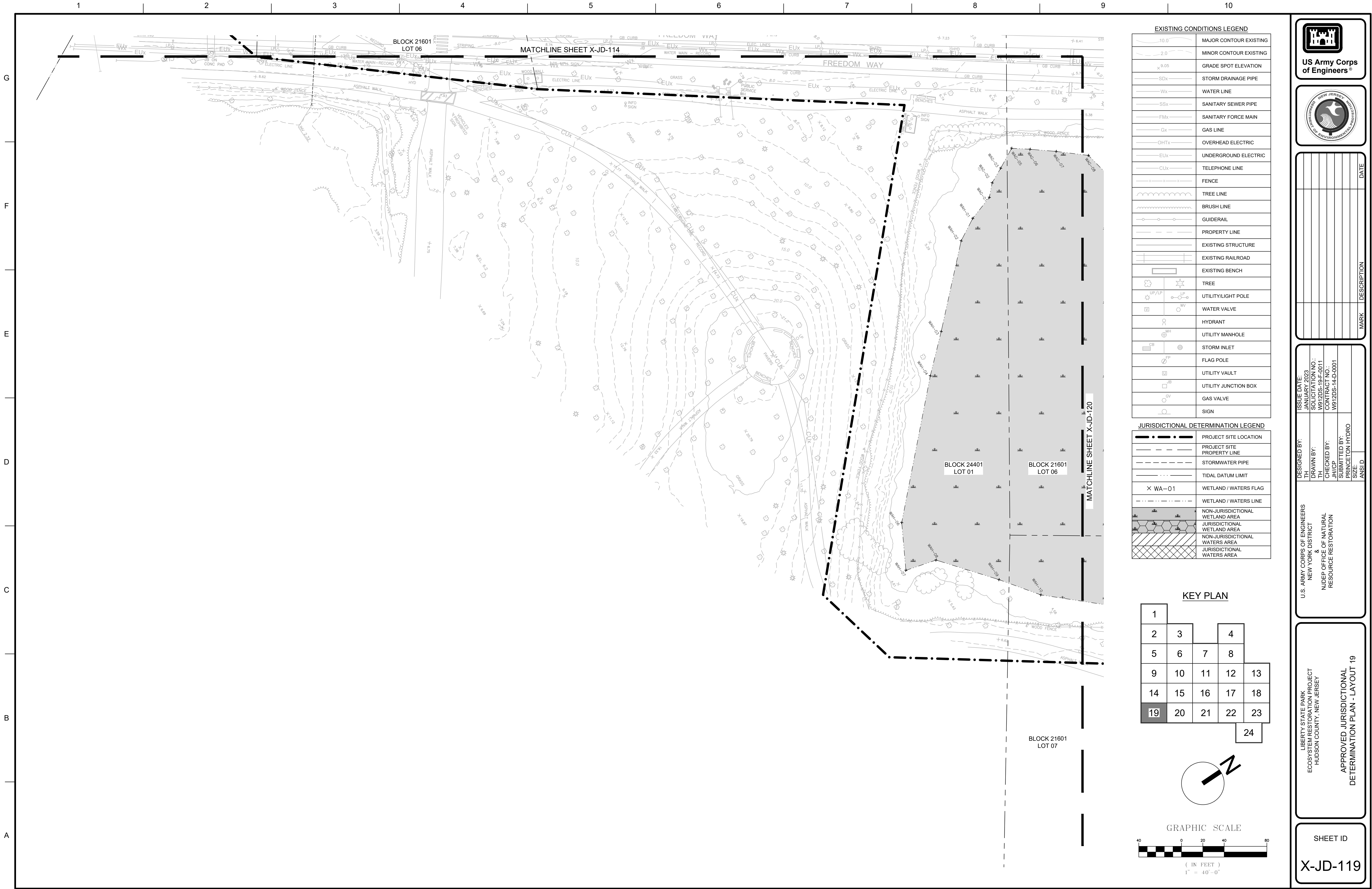
APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 16

SHEET ID

X-JD-116



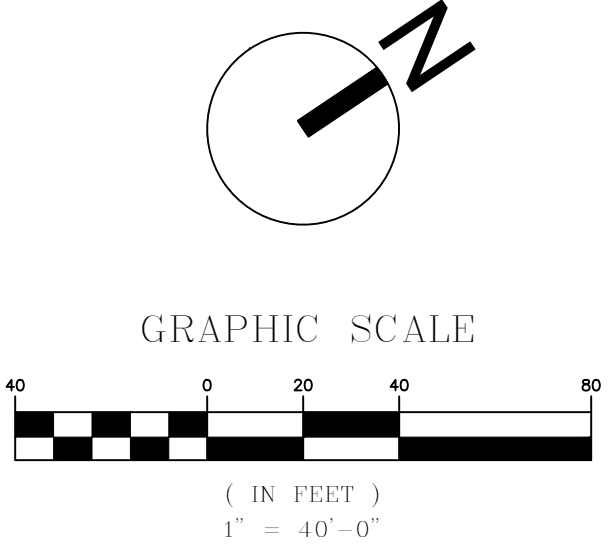




EXISTING CONDITIONS LEGEND	
	MAJOR CONTOUR EXISTING
	MINOR CONTOUR EXISTING
	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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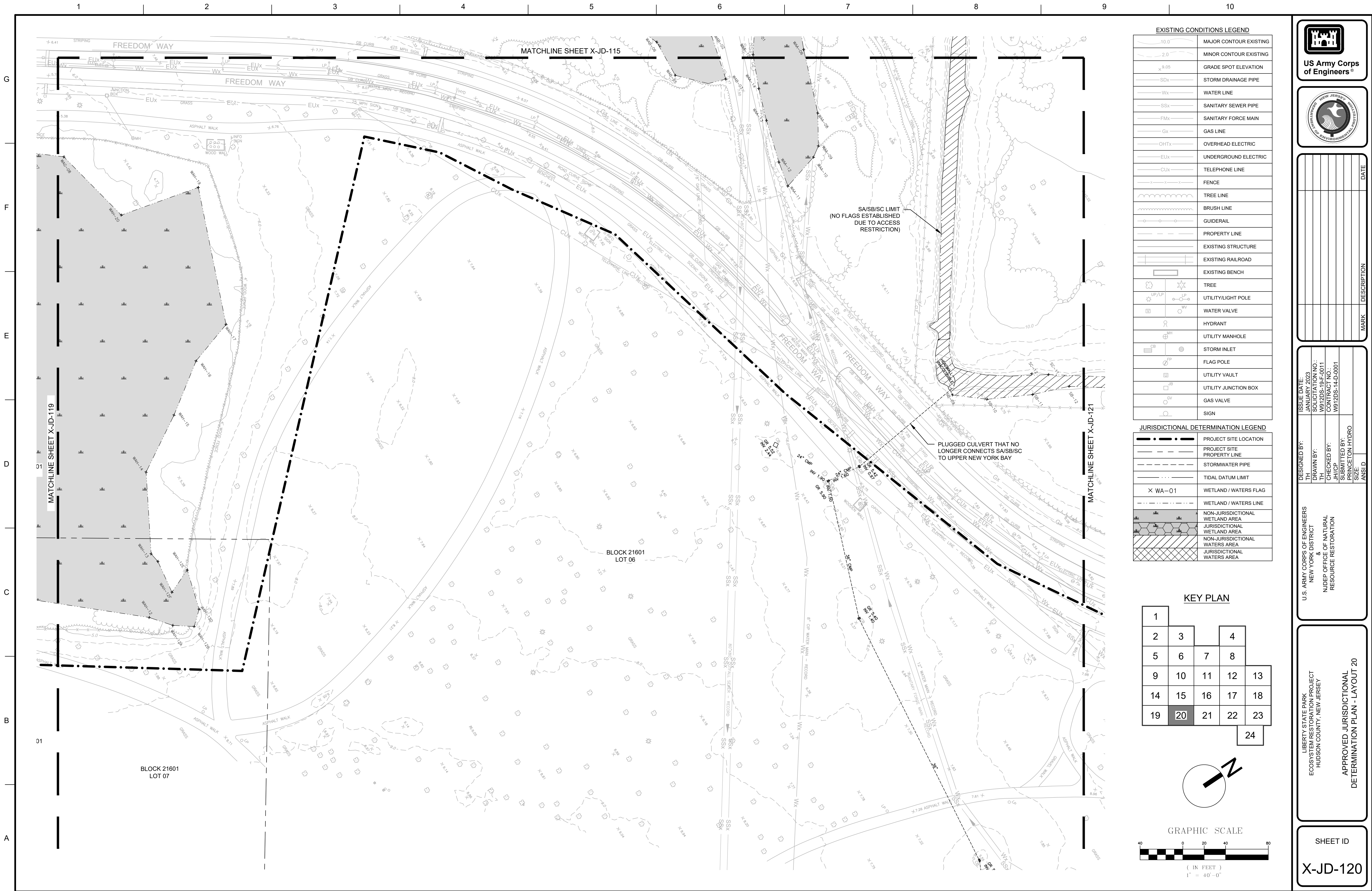
DESIGNED BY: TH	ISSUE DATE: JAN 2023
DRAWN BY: TH	SUBMITTAL NO.: W912DS-14E-0011
CHECKED BY: JH/CP	CONTRACT NO.: W912DS-14D-0001
SUBMITTED BY: PRINCETON HYDRO	
SIZE	ANSI D

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 19

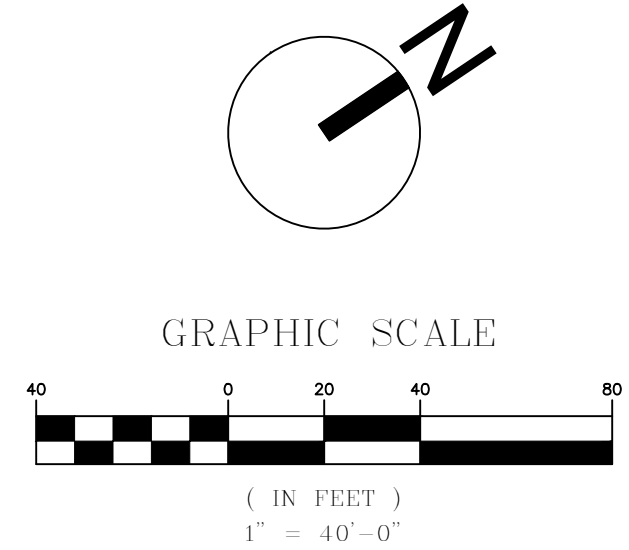
SHEET ID
X-JD-119



EXISTING CONDITIONS LEGEND	
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	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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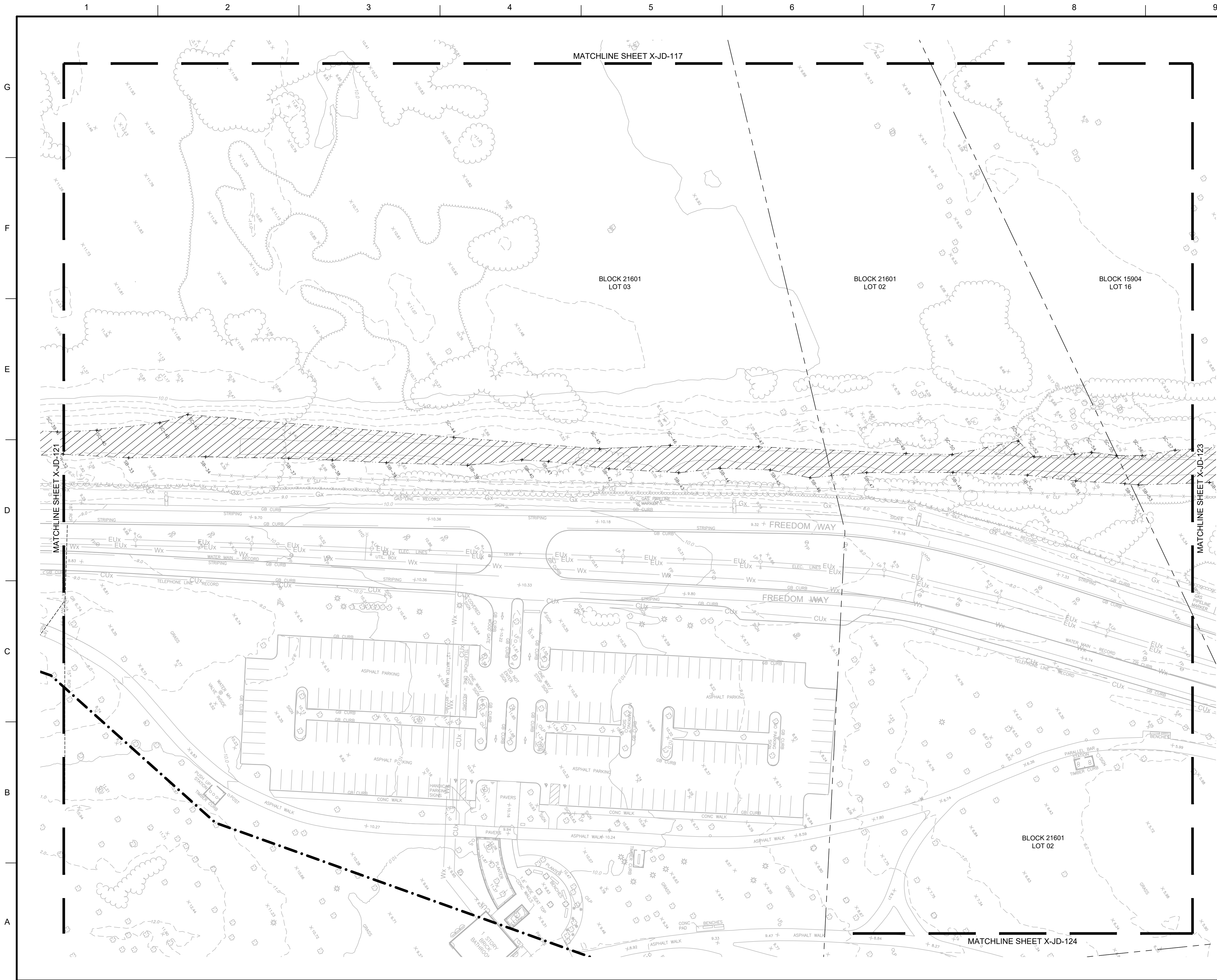
US Army Corps of Engineers

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

ISSUE DATE: JAN 2023	DESIGNED BY: TH	U.S. ARMY CORPS OF ENGINEERS NEW YORK DISTRICT
SUBMITTAL NO.: W912DS-14D-001	DRAWN BY: TH	ECOSYSTEM RESTORATION PROJECT HUDSON COUNTY, NEW JERSEY
CONTRACT NO.: W912DS-14D-001	CHECKED BY: JH/CP	NIDEP OFFICE OF NATURAL RESOURCE RESTORATION
	SUBMITTED BY: PRINCETON HYDRO	APPROVED JURISDICTIONAL DETERMINATION PLAN - LAYOUT 20
	SIZE: ANSI D	

SHEET ID

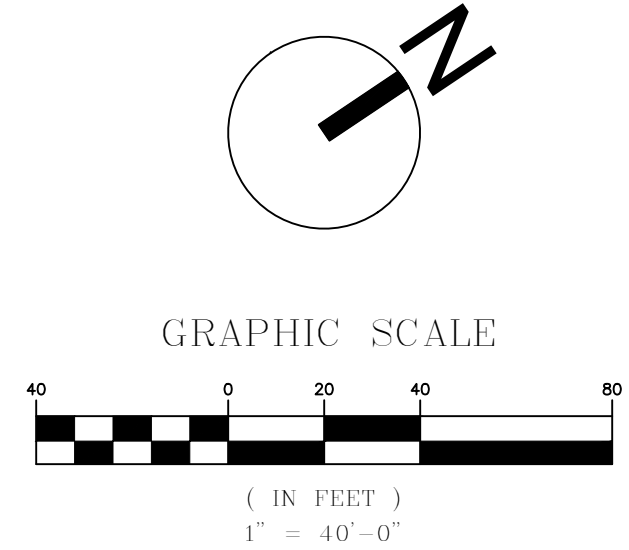
X-JD-120



EXISTING CONDITIONS LEGEND	
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	MINOR CONTOUR EXISTING
	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

ISSUE DATE:	DATE:
ISSUE NO.:	DATE:
SUBMITTER:	DATE:
PROJECT NO.:	DATE:
CONTRACT NO.:	DATE:
PROJECT NAME:	DATE:
PROJECT LOCATION:	DATE:
PROJECT DESCRIPTION:	DATE:

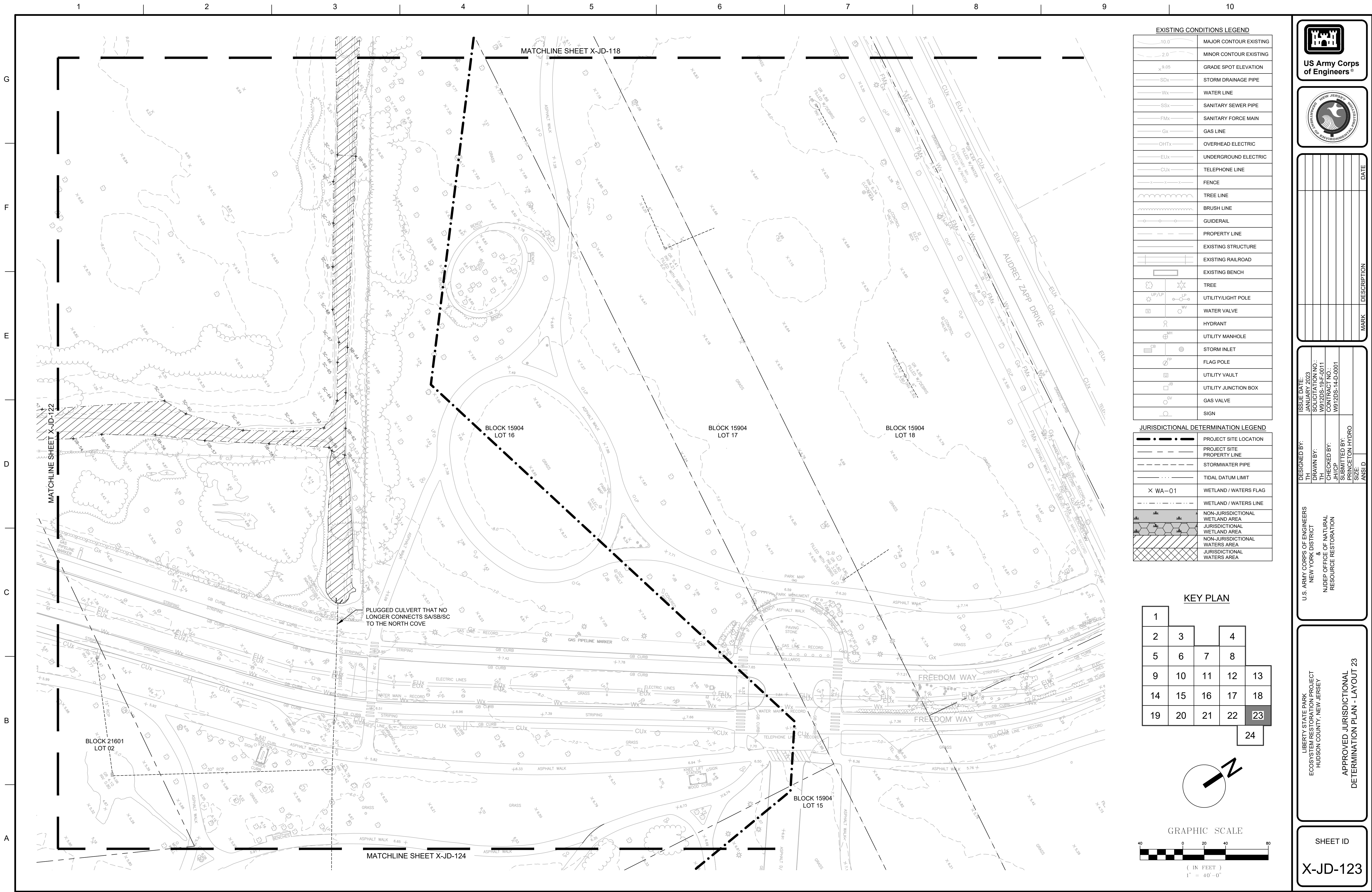
DESIGNED BY:	U.S. ARMY CORPS OF ENGINEERS
DRAWN BY:	NEW YORK DISTRICT
CHECKED BY:	NIDEP OFFICE OF NATURAL RESOURCE RESTORATION
SUBMITTED BY:	PRINCETON HYDRO
SIZE:	ANSI D

LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 22

SHEET ID

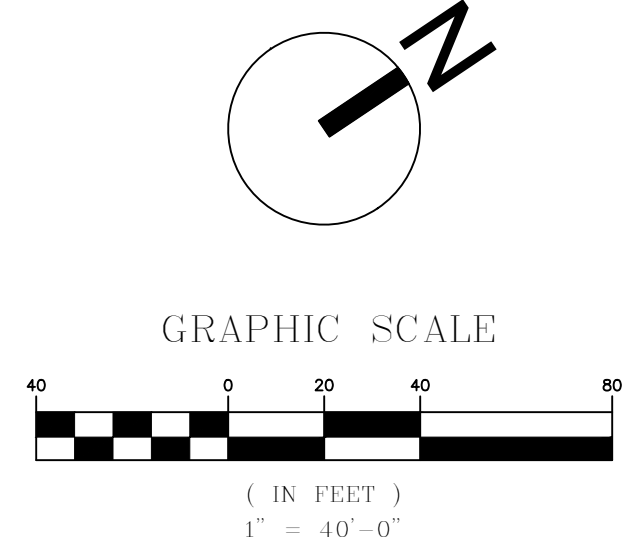
X-JD-122



EXISTING CONDITIONS LEGEND	
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	MINOR CONTOUR EXISTING
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	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDERAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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US Army Corps of Engineers

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

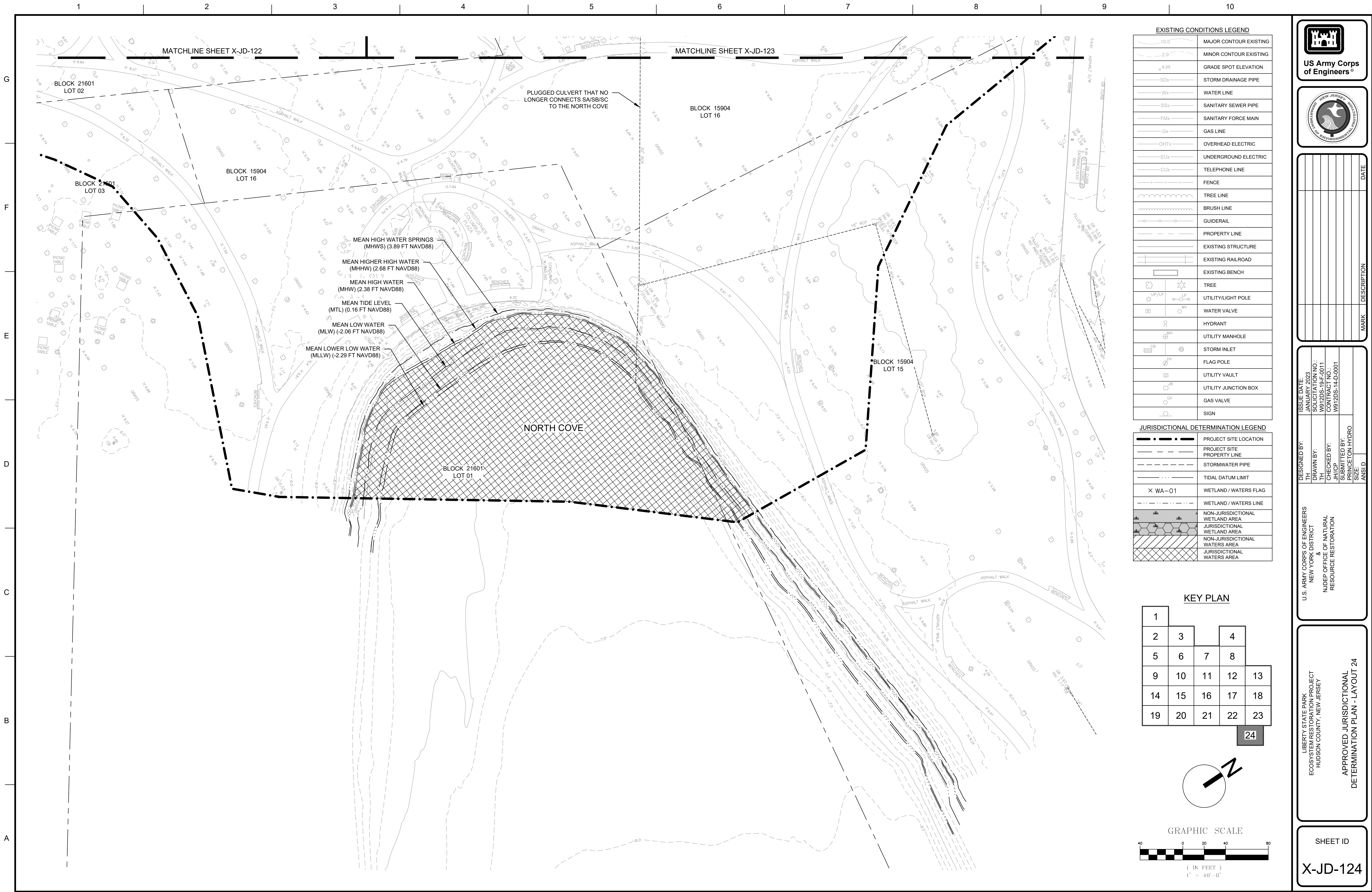
ISSUE DATE:	DATE:
LAST DATE:	
SUBMITTAL NO.:	
CONTRACT NO.:	
PROJECT NO.:	

DESIGNED BY:	PROJECT NO.:
DRAWN BY:	PROJECT NO.:
CHECKED BY:	PROJECT NO.:
SUBMITTED BY:	PROJECT NO.:
PRINCETON HYDRO	PROJECT NO.:

LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 23

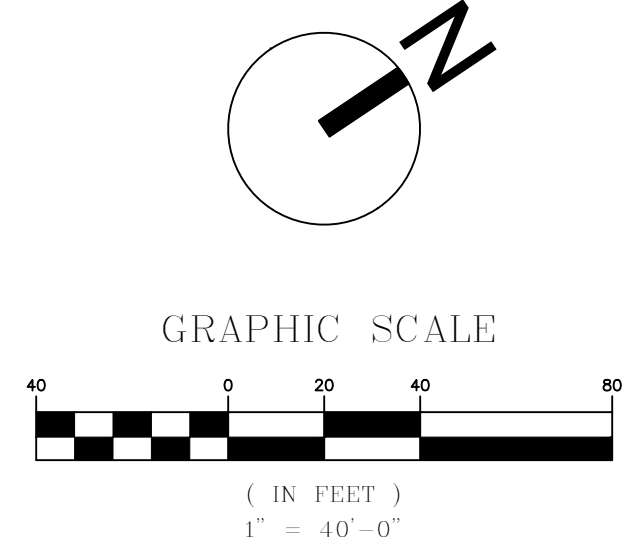
SHEET ID
X-JD-123



EXISTING CONDITIONS LEGEND	
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	GRADE SPOT ELEVATION
	STORM DRAINAGE PIPE
	WATER LINE
	SANITARY SEWER PIPE
	SANITARY FORCE MAIN
	GAS LINE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	TELEPHONE LINE
	FENCE
	TREE LINE
	BRUSH LINE
	GUIDRAIL
	PROPERTY LINE
	EXISTING STRUCTURE
	EXISTING RAILROAD
	EXISTING BENCH
	TREE
	UTILITY/LIGHT POLE
	WATER VALVE
	HYDRANT
	UTILITY MANHOLE
	STORM INLET
	FLAG POLE
	UTILITY VAULT
	UTILITY JUNCTION BOX
	GAS VALVE
	SIGN

JURISDICTIONAL DETERMINATION LEGEND	
	PROJECT SITE LOCATION
	PROJECT SITE PROPERTY LINE
	STORMWATER PIPE
	TIDAL DATUM LIMIT
	WETLAND / WATERS FLAG
	WETLAND / WATERS LINE
	NON-JURISDICTIONAL WETLAND AREA
	JURISDICTIONAL WETLAND AREA
	NON-JURISDICTIONAL WATERS AREA
	JURISDICTIONAL WATERS AREA

KEY PLAN				
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US Army Corps of Engineers

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

DESIGNED BY: PL	ISSUE DATE: JAN 10/23
DRAWN BY: TH	SUBMITTAL NO.: W912DS-14E-0011
CHECKED BY: JH/CP	CONTRACT NO.: W912DS-14D-0001
SUBMITTED BY: PRINCETON HYDRO	
SIZE: ANSI D	

U.S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
LIBERTY STATE PARK
ECOSYSTEM RESTORATION PROJECT
HUDSON COUNTY, NEW JERSEY

APPROVED JURISDICTIONAL
DETERMINATION PLAN - LAYOUT 24

SHEET ID
X-JD-124