



**US Army Corps
of Engineers®**

PUBLIC NOTICE

Applicant:

New York State Parks,
Recreation & Historic
Preservation

Published: September 2, 2025

Expires: October 2, 2025

New York District

Permit Application No. NAN-2024-00545-MCC

TO WHOM IT MAY CONCERN: The New York District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344). The purpose of this public notice is to solicit comments from the public regarding the work described below:

APPLICANT: New York State Parks, Recreation & Historic Preservation
625 Broadway
Albany, New York 12238

WATERWAY AND LOCATION: The project would affect waters of the United States , including wetlands, associated with Lake Sebago. The project/review area is located on within Harriman State Park; at Latitude 41.216445 and Longitude -74.13261; in Ramapo, Rockland County, New York.

EXISTING CONDITIONS: The Lake Sebago swimming beach within Harriman State Park on the border of Rockland County and Orange County. Lake Sebago was formed in the 1920s following the construction of the Stony Brook Dam at its southern extent. The Lake Sebago swimming beach and supporting structures were originally developed in the 1950s. The project site includes the existing Masonic Camp Road that provides entry to the park, parking lots, bathhouse building, beach area, and swimming area within Lake Sebago. It also includes the New Sebago Beach Dam at the southern end of Lake Kanawauke to the north of Lake Sebago, the historic Stillwater Creek stream channel between Lake Kanawauke and Lake Sebago, the wastewater treatment facility that currently serves the park, and wooded areas. Water depths in Lake Sebago within the project site are up to approximately 12 feet deep. The lake bottom consists of sand overlain with silt and organic matter that has been deposited by precipitation events and stormwater runoff since 2011 when this area of Harriman State Park sustained damage from Hurricane Irene.

PROJECT PURPOSE:

Overall: The Applicant's stated purpose for the project is to rehabilitate the swimming beach and park facilities at Lake Sebago, which have been closed to the public since 2011. The proposed project includes restoration of the swimming beach and water depths at the swimming area within the lake, daylighting of the former Stillwater Creek that connects Lake Kanawauke and Lake Sebago, creation and restoration of wetlands,

rehabilitation of the existing bathhouse and promenade, rehabilitation of park buildings and infrastructure, construction of a new restroom building, a maintenance building, campground and support building, parking areas including green infrastructure and EV charging infrastructure, potable water wells, and replacement of the onsite wastewater management system.

Basic: The basic project purpose is restoration of ecological function and recreational use.

PROPOSED WORK: The applicant requests authorization for:

Rehabilitation of the Beach and Swimming Cells: Approximately 2,500 cubic yards (cy) of accumulated sediment and organic material will be removed from the Lake within a 67,500-square-foot (sf) (1.5-acre) swimming area, and approximately 1,250 cy of clean sand will be placed within the same footprint.

The top six (6) inches of surface material will be removed from the 87,950-sf (2.0-acre) beach area, including a 25,780-sf (0.6-acre) portion of the area identified as Wetland M. Clean sand will then be disbursed, approximately 355 cy of which will be placed within the excavated portion of Wetland M.

The excavated materials will be moved to an upland staging area to be reused onsite for the floodplain and wetland complex along the daylighted stream corridor. Any material deemed not suitable for reuse will be transported offsite for upland disposal at a licensed facility.

Daylighting Stillwater Creek: The New Sebago Beach Dam will be removed and the stream corridor that currently connects Lake Kanawauke and Lake Sebago via two underground spillway pipes will be excavated. A floodplain wetland complex will be established by creating new wetland areas as well as restoring and enhancing the existing adjacent wetlands. The existing spillway pipes associated with the dam will be abandoned within the lakebed and the portion of the pipes between the lake and Masonic Camp Road and the promenade will be filled.

A double span concrete arch bridge with stone cladding will be constructed along Masonic Drive to span the new stream corridor. The bridge will be approximately 40 feet wide, and the arches will be elevated approximately 8.5 feet above the stream channel and 5 feet over the adjacent proposed wetland. It will be designed to accommodate a 500-year storm, with the stream channel passing through one of the two arches and the other arch accommodating overtopping of the main channel.

A 15-foot-wide, 136-foot-long pedestrian bridge will be installed to allow the promenade to pass over the stream corridor.

Upper Parking Lot: A new upper parking lot will be constructed in an existing clearing northwest of the bathhouse to serve as an overflow lot for the bathhouse and as parking

for the future campground. This lot, identified as Parking Lot 2, will be almost entirely pervious, comprising geocell driving aisles with turf parking spaces and trees planted at the ends of each row. A limited amount of bituminous concrete pavement will also be used at the entrance to the parking lot to accommodate ADA-compliant spaces. The upper lot will provide spaces for 490 cars, limiting the total number of formal parking spaces for the park to 840 which represents a reduction from the park's original capacity of over 1,000 cars in 2011 before it was closed.

Construction of the upper parking lot will result in permanent impacts to 33,063 sf feet (0.8 acres) of wetlands.

Promenade: The existing promenade, which forms a semicircular path between the swim beach and the bathhouse, will be rehabilitated. This will include extension of the west terminus and east terminus by about 6-feet at both ends of the promenade to widen the turnaround to allow access by emergency and maintenance vehicles. The extension of the West terminus will require the placement of 9.07 cy of fill across 490 sf of area within Wetland M. The extension of the East terminus will require the placement of approximately 25.55 cy of fill across 690 sf below the ordinary high-water mark of the Lake.

Outfall: As part of the wastewater treatment facility upgrade, the existing dispersion outfall will be removed, and a new dispersion outfall will be installed in its place. The existing outfall is submerged within Lake Sebago approximately 800 feet offshore from the swimming beach in waters about 10 feet deep.

Additional Work Planned – Not Regulated by USACE:

The existing lower paved parking lot next to the bathhouse, identified as Parking Lot 1 will be rehabilitated using asphalt pavement and green infrastructure. The overall footprint will also be reduced.

Several structures within the park will be impacted by the project. The existing bathhouse will be restored, while the Hobos Camp structures and the Pavilion/Former Latrine building will be removed.

The project will also include the construction of a new restroom building, a maintenance building, campground and support building, EV charging infrastructure in the parking areas, potable water wells, and replacement of the onsite wastewater management system.

AVOIDANCE AND MINIMIZATION: The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

A Stormwater Pollution Prevention Plan (SWPPP) has been developed for the project (e.g., silt fencing, inlet protection, construction road stabilization) to minimize the potential for effects on water quality from erosion during construction activities. Silt

fencing will be placed around construction and staging areas and a secondary silt fence will be positioned along the Lake Sebago shoreline to capture any sediment discharge outside these areas. Prior to excavation of the stream corridor, a temporary cofferdam will be installed in Lake Sebago at the outlet of the daylighted creek to capture sediment. This sediment will be allowed to redistribute naturally when the creek is redirected into the excavated channel, which will result in temporary increases in turbidity when this process is initiated. Sediments are expected to settle quickly such that they do not result in long-term impacts to water quality.

Contouring of the lake bottom at the confluence with Stillwater Creek will also be conducted within a turbidity curtain to minimize the effects of sediment resuspension. Construction of the stream corridor to daylight Stillwater Creek and the creation of the associated wetland and floodplain complex are expected to reduce sediment transport from Lake Kanawauke to Lake Sebago by providing opportunities for natural deposition within the stream corridor.

Project activities in areas where protected species have the potential to occur will be completed in accordance with any time-of-year restrictions issued for specific types of construction or work areas. Tree removal will be completed between November 1st and March 31st to avoid the active season for federally protected bat species.

The Project has been designed to: minimize adverse effects on aquatic and terrestrial biota, water quality, hydrology, and water course and waterbody integrity; and to safeguard life and property, to incorporate good engineering design and construction techniques, the safe commercial and recreational use of surface water resources, and the natural resource management objectives and values of Lake Sebago. It will not result in significant adverse impacts to aquatic resources, wetlands, and terrestrial habitats; unique and significant habitats; rare, threatened, or endangered species; or water quality and hydrology of Lake Sebago.

COMPENSATORY MITIGATION: The applicant offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment:

Construction of the upper parking lot, the swimming beach restoration, and the stream corridor creation will result in temporary impacts to 22,010 sf (0.5 acres) and permanent impacts to 85,192 sf (1.95 acres) of wetlands. However, these impacts will be offset by the proposed 22,010 sf (0.5 acres) of wetland restoration, 14,881 sf (0.3 acres) of wetland enhancement, and 87,171 sf (2.0 acres) of wetland creation, as described in detail below:

Restoration: Wetland restoration will be conducted within the boundaries of existing wetlands that will be temporarily disturbed during construction along the lakeshore and in the lower reach of the creek and on the eastern edge of the stream corridor in the upper and middle reaches. These areas will be restored through grading and planting of native vegetation. The wetland restoration areas have not been included in the

calculations for compensatory mitigation, as they would occur in existing wetlands being temporarily disturbed during construction.

Enhancement: Wetland enhancement will be conducted in the upper reach of the creek where the existing Wetland E will be permanently altered by the stream channel and creation of the floodplain/wetland complex. Enhancement will comprise excavation and grading for the stream channel, amendment of any soils returned as backfill to the wetland to remove common reed (*Phragmites australis*), and planting of native wetland vegetation. The wetland enhancement area has not been included in the calculations for compensatory mitigation, as it comprises an existing wetland that will be altered with the creation of the stream corridor.

Creation: Wetland creation comprises 80,051 sf (1.8 acres) of new wetlands within the stream corridor, including the creek itself, that will be created as part of the intended design of the wetland and floodplain complex and 7,121 sf (0.16 acres) of new wetlands along the eastern edge of the restoration area at the lakeshore south of the stream confluence.

To ensure the success of the restored, enhanced, and created wetlands, the proposed project includes a monitoring and adaptive management plan that will be conducted during the growing season for at least 5 years following construction. Performance standards for success generally include evidence of wetland hydrology, minimal coverage by invasive vegetation, and percent survival rates for native vegetation based on plant type and year. The monitoring program will include documentation of conditions and survivability and will include adaptive management measures to correct any observed issues.

CULTURAL RESOURCES:

The Corps is evaluating the undertaking for effects to historic properties as required under Section 106 of the National Historic Preservation Act. This public notice serves to inform the public of the proposed undertaking and invites comments including those from local, State, and Federal government Agencies with respect to historic resources. Our final determination relative to historic resource impacts may be subject to additional coordination with the State Historic Preservation Officer, federally recognized tribes and other interested parties.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required, and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps-identified permit area.

ENDANGERED SPECIES: The Corps has performed an initial review of the application, as well as the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) to determine if any threatened, endangered, proposed, or candidate species, as well as the proposed and final designated critical habitat may occur within the boundary of the proposed project. Based on this initial review, the Corps has made

a preliminary determination that the proposed project may affect species and critical habitat listed in Table 1. No other ESA-listed species or critical habitat will be affected by the proposed action.

Table 1: ESA-listed species and/or critical habitat potentially present in the action area.

Common Name	Scientific Name	Status	Agency
Bog Turtle	<i>Glyptemys muhlenbergii</i>	Threatened	USFWS
Indiana Bat	<i>Myotis sodalis</i>	Endangered	USFWS
Northern Long-eared Bat	<i>Myotis septentrionalis</i>	Endangered	USFWS
Tricolored Bat	<i>Perimyotis subflavus</i>	Proposed Endangered	USFWS
Monarch Butterfly	<i>Danaus plexippus</i>	Proposed Threatened	USFWS
Small Whorled Pogonia	<i>Isotria medeoloides</i>	Threatened	USFWS

Pursuant to Section 7 ESA, any required consultation with the Service(s) will be conducted in accordance with 50 CFR part 402.

WATER QUALITY CERTIFICATION: Reviews of activities pursuant to Section 404 of the Clean Water Act will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404 (b) of the Clean Water Act and the applicant will obtain a water quality certificate or waiver from the New York State Department of Environmental Conservation in accordance with Section 401 of the Clean Water Act prior to a permit decision.

OTHER AUTHORIZATIONS: In addition to any required water quality certificate the applicant has obtained or requested the following governmental authorization for the activity under consideration:

- New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) industrial permit

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The geographic extent of aquatic resources within the proposed project area that either are, or are presumed to be, within the Corps jurisdiction has not been verified by Corps personnel.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered

including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

COMMENTS: The Corps is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New York District will receive written comments on the proposed work, as outlined above, until the expiration date of this public notice. Comments should be submitted electronically via the Regulatory Request System (RRS) at <https://rrs.usace.army.mil/rrs> or to Carolyn Courtien at carolyn.m.courtien@usace.army.mil. Please refer to the permit application number in your comments.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. Requests for a public hearing will be granted, unless the District Engineer determines that the issues raised are insubstantial or there is otherwise no valid interest to be served by a hearing.

Comments submitted in response to this notice will be fully considered during the public interest review for this permit application. Comments provided will become part of the public record for this permit application. All written comments, including contact information, will be made a part of the administrative record, available to the public under the Freedom of Information Act. The Administrative Record, or portions thereof, may also be posted on a Corps of Engineers internet web site. Due to resource limitations, this office will normally not acknowledge the receipt of comments or respond to individual letters of comment.

In order for us to better serve you, please complete our Customer Service Survey located at <https://www.nan.usace.army.mil/Missions/Regulatory/Customer-Survey/>.

For more information on New York District Corps of Engineers programs, visit our website at <http://www.nan.usace.army.mil>.

 Digitally signed by
Rosita Miranda

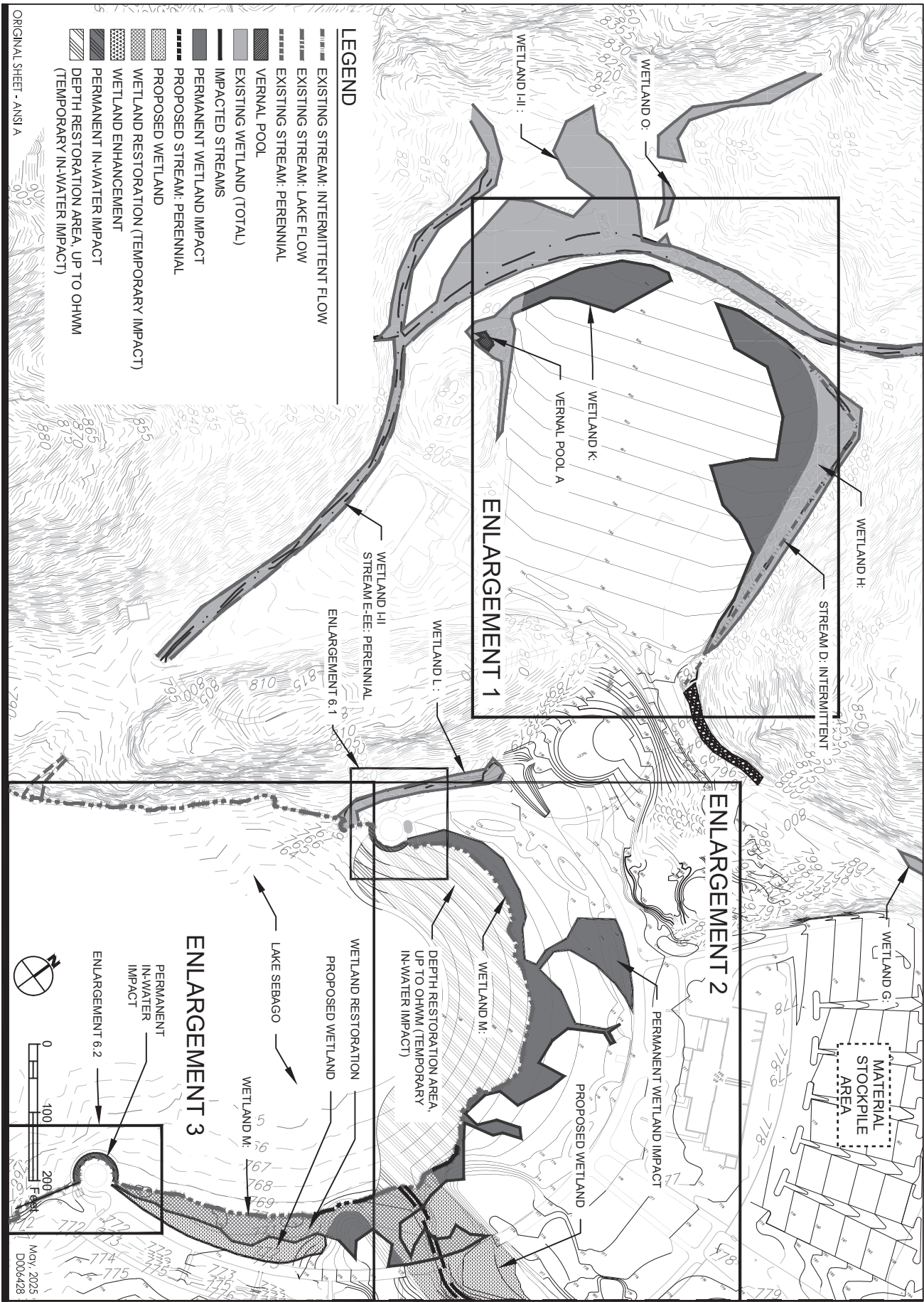
FOR AND IN BEHALF OF
Stephan A. Ryba
Chief, Regulatory Branch



Client/Project
New Haven, CT 06510
(203) 495-1645
www.stantec.com

Project Location
NYS OPRHP Palisades Region
Rehabilitation of Lake Sebago
within Harriman State Park

Sheet Title
Wetland Key Plan - 1
Figure No.
001.00



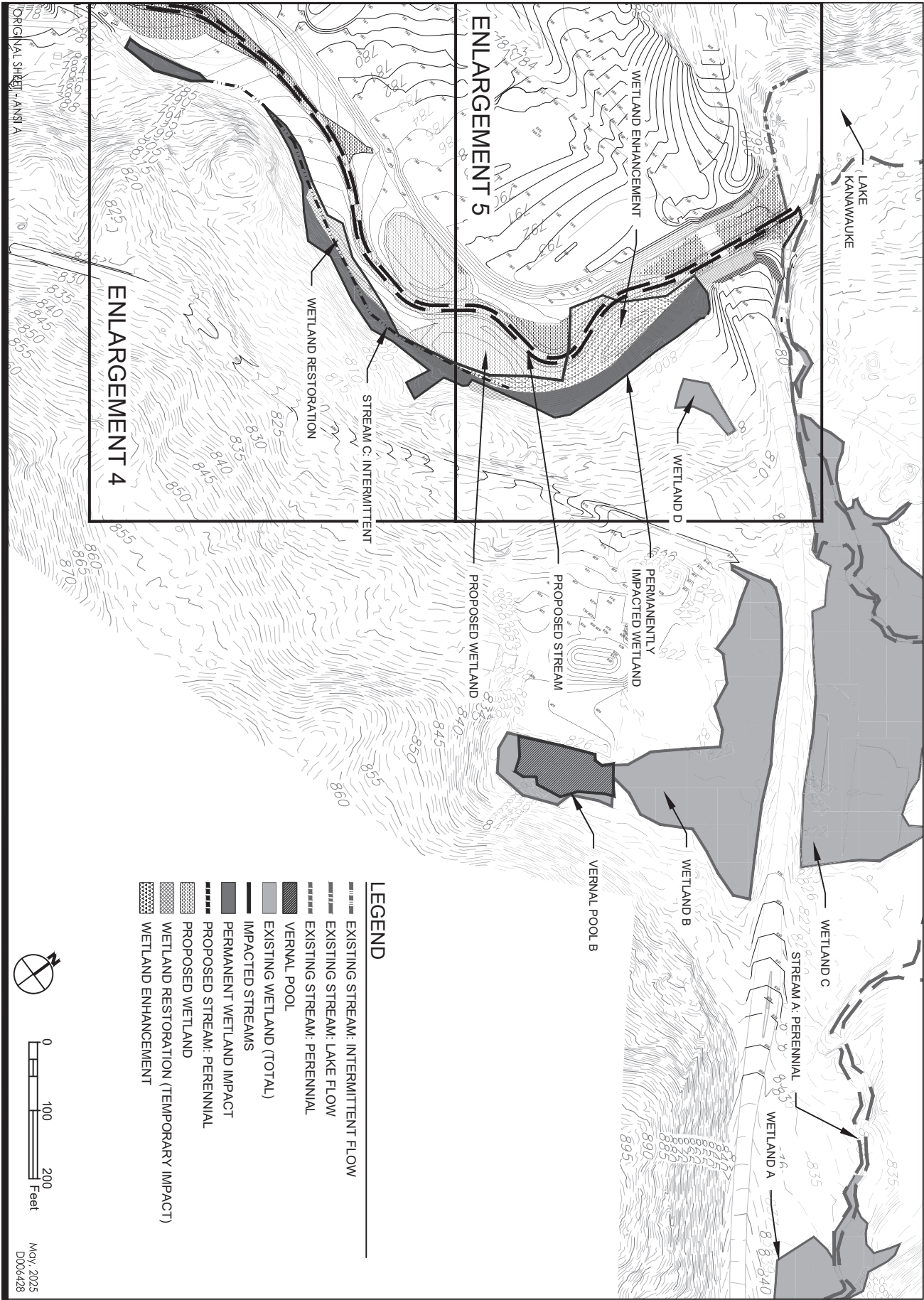


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Pomona, NY 10970

Sheet Title
Wetland Key Plan - 2
Figure No.
002.00



WETLAND MITIGATION SUMMARY

PERMANENTLY IMPACTED WETLANDS: ±85,192 SF
PROPOSED WETLANDS: ±87,171 SF

NET CHANGE: +1,979 SF (+2.3%)

LEGEND

EXISTING WETLAND AND STREAMS		
EXISTING STREAM: INTERMITTENT FLOW	1,235	LF
EXISTING STREAM: LAKE FLOW	3,003	LF
EXISTING STREAM: PERENNIAL	6,761	LF
VERNAL POOL	± 8,709	SF
EXISTING WETLAND (TOTAL)	±450,082	SF
IMPACTED WETLAND AND STREAMS		
IMPACTED STREAMS	886	LF
PERMANENT WETLAND IMPACT	±85,192	SF
TEMPORARILY DISTURBED WETLANDS (BEACH, DAYLIGHTED STREAM & UPPER PARKING LOT)		
ESTIMATED FILL REMOVED FROM WETLANDS	±5,352	CY
ESTIMATED FILL PLACED WITHIN WETLANDS	±277	CY
PERMANENTLY DISTURBED WETLANDS (BEACH, DAYLIGHTED STREAM & UPPER PARKING LOT)		
ESTIMATED FILL REMOVED FROM WETLANDS	±1,998	CY
ESTIMATED FILL PLACED WITHIN WETLANDS	±1,387	CY
IN-WATER IMPACTS		
PERMANENT IN-WATER IMPACT	±1,180	SF
DEPTH RESTORATION AREA (TEMPORARY IMPACT)	±67,500	SF
TEMPORARY IN-WATER IMPACTS		
ESTIMATED FILL REMOVED IN-WATER	±2,500	CY
ESTIMATED FILL PLACED IN-WATER	±1,250	CY
PERMANENT IN-WATER IMPACTS		
ESTIMATED FILL REMOVED IN-WATER	±11.5	CY
ESTIMATED FILL PLACED IN-WATER	±34.62	CY
PROPOSED, RESTORED, AND ENHANCED WETLANDS AND STREAMS		
PROPOSED STREAM BANKS: PERENNIAL	2,988	LF
PROPOSED WETLAND	±87,171	SF
WETLAND RESTORATION (TEMPORARY IMPACT)	±22,010	SF
WETLAND ENHANCEMENT	±14,881	SF

NOTES:

- VERNAL POOL A DELINEATED APRIL 26, 2023 WITH SPOTTED SALAMANDER EGG MASSES.
- VERNAL POOL B DELINEATED APRIL 26, 2023 WITH WOOD FROG AND SPOTTED SALAMANDER EGG MASSES.
- AREA BETWEEN STREAM BANKS INCLUDED IN PROPOSED WETLAND NUMBER.

ORIGINAL SHEET - ANSI A



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Sheet Title
Wetland Summary
Figure No.
003.00

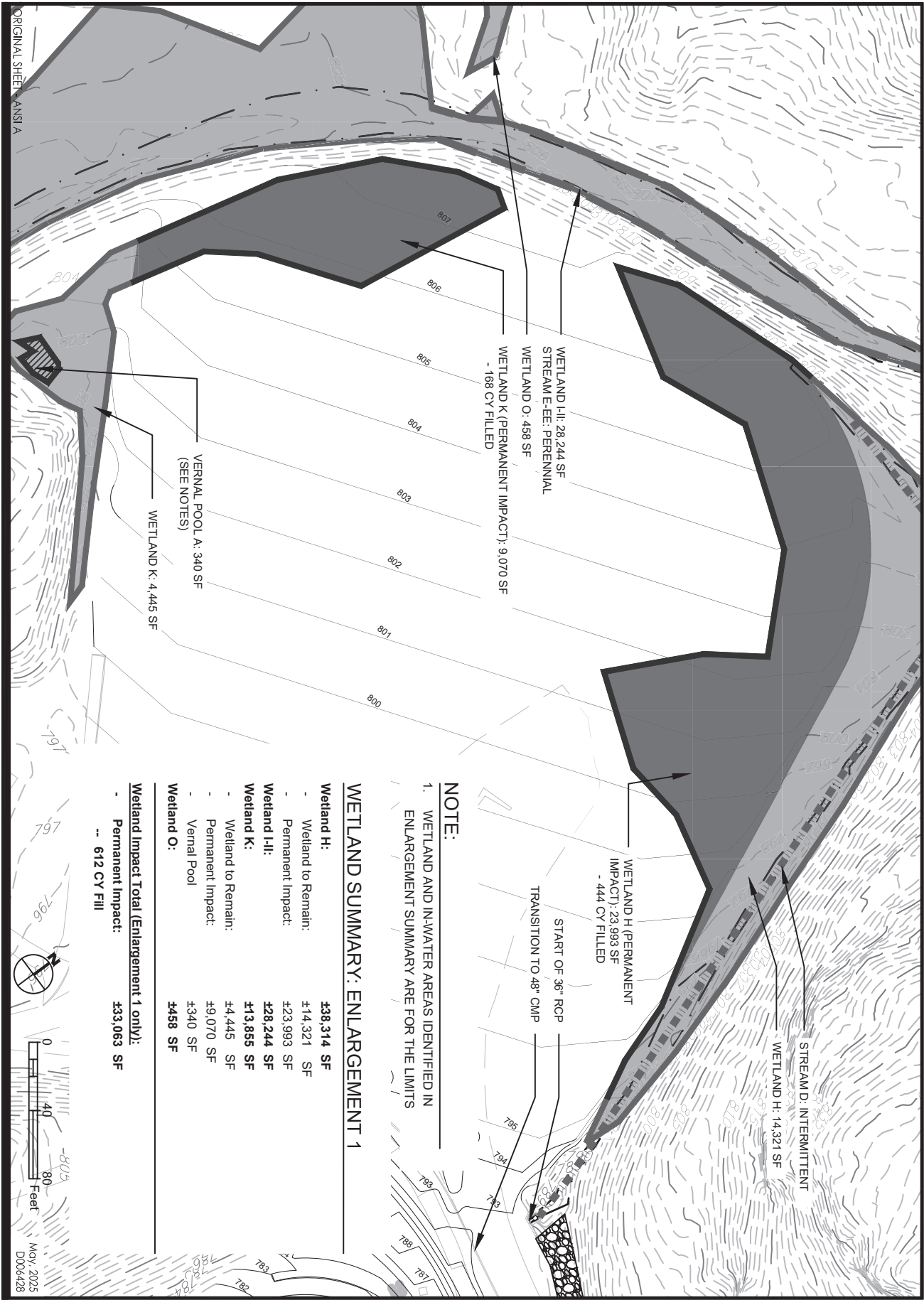
May, 2025
D006428



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NYS OPRHP Palisades Region
Rehabilitation of Lake Sebago
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Project Location
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Sheet Title
Wetland Enlargement - 1
Figure No.
004.00





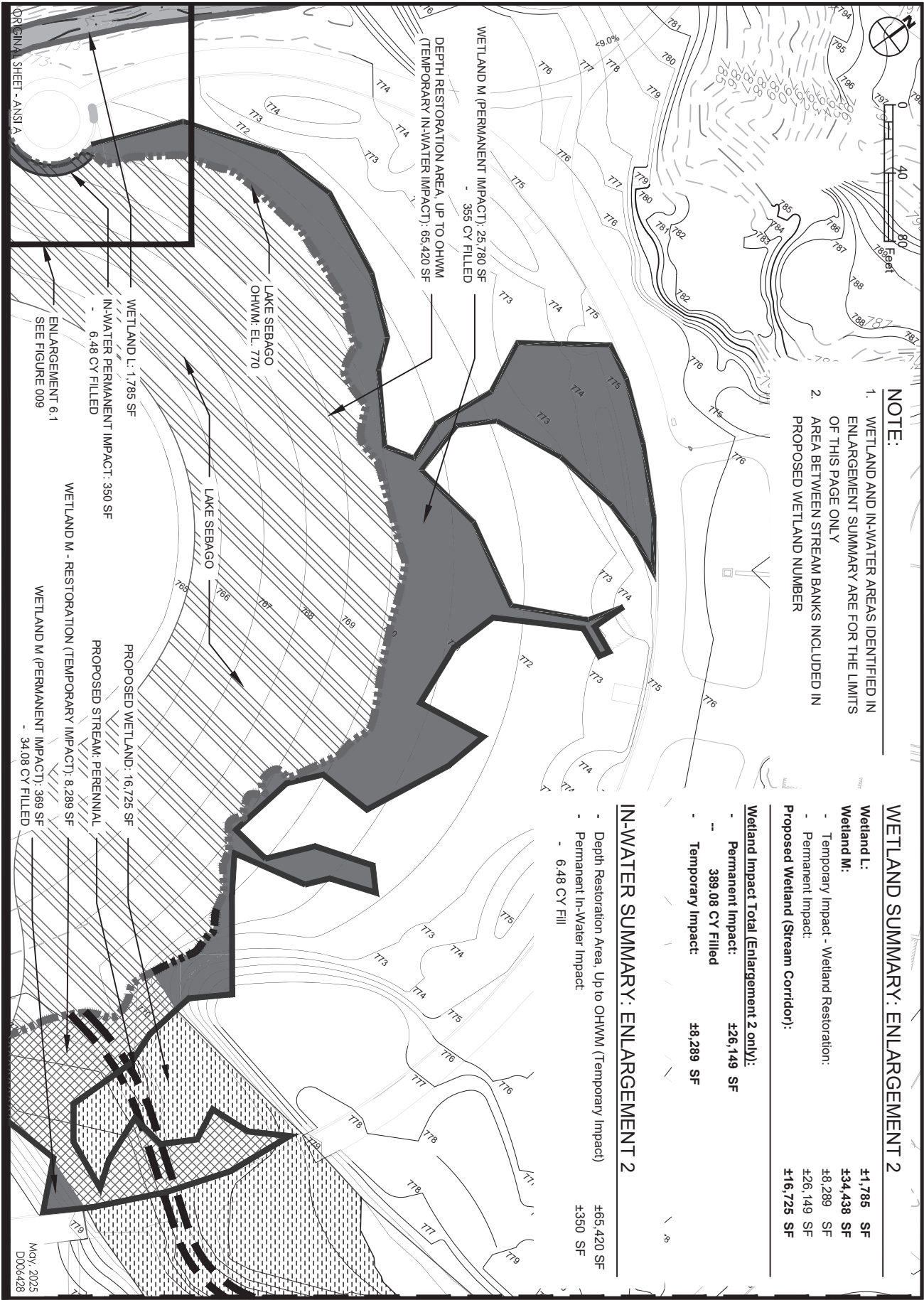
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Sheet Title
Wetland Enlargement - 2
Figure No.
005.00
May 2025
0006428





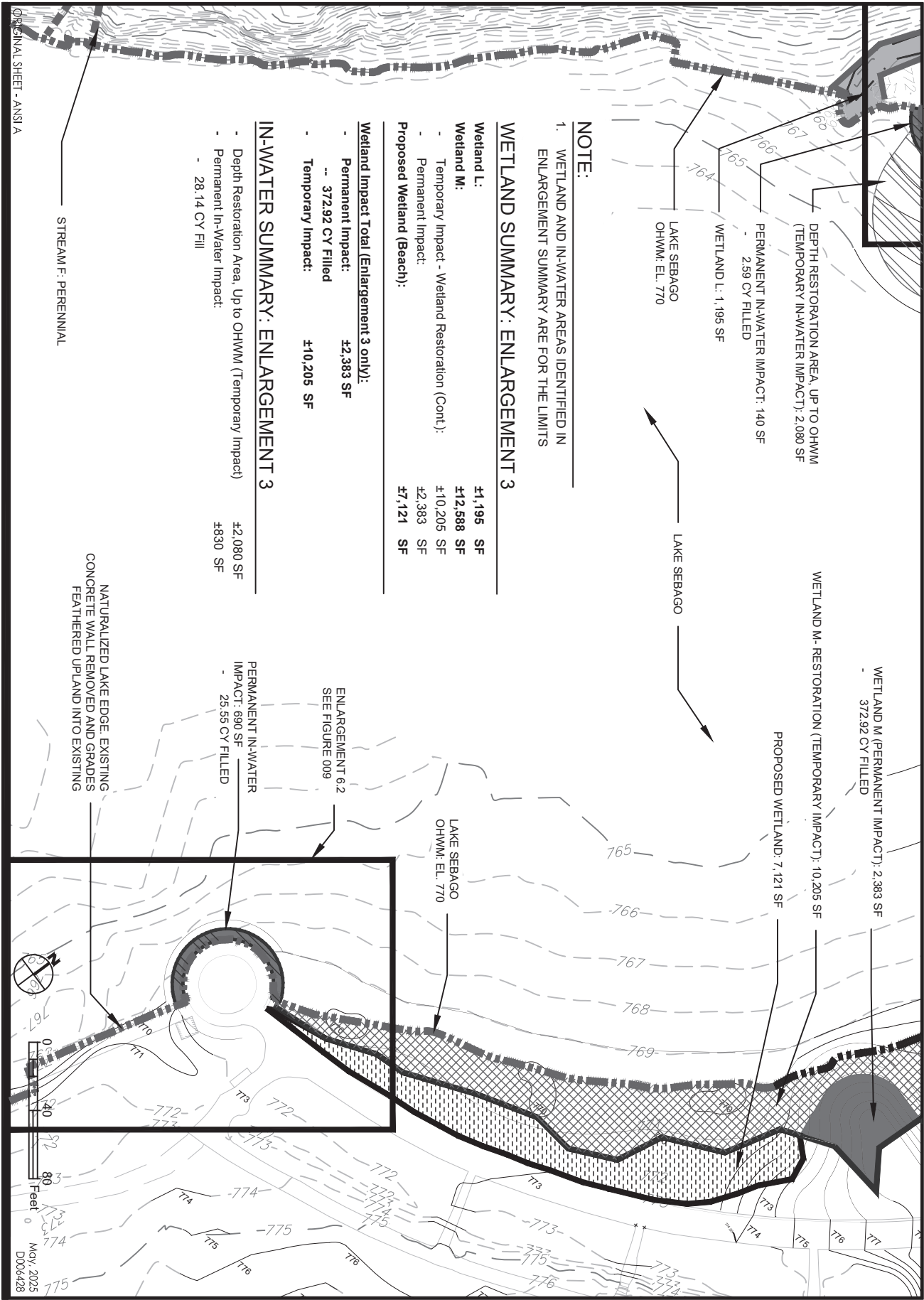
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NYS OPRHP Palisades Region
Rehabilitation of Lake Sebago
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Project Location
Harriman State Park
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Sheet Title
Wetland Enlargement - 3
Figure No.
006.00
May 2025
D006428

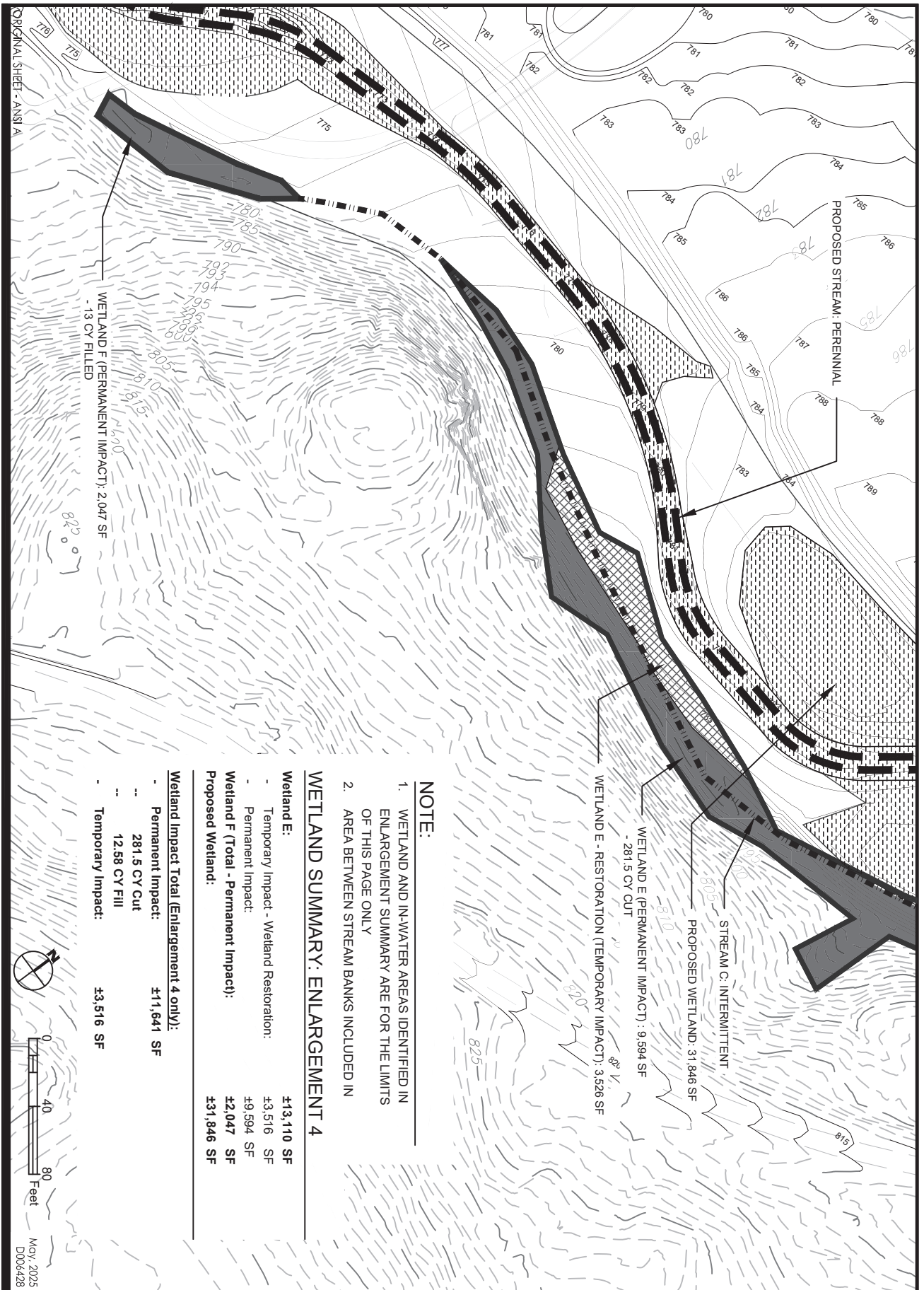


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NYS OPRHP Palisades Region
Rehabilitation of Lake Sebago
within Hariman State Park

Sheet Title
Wetland Enlargement - 4
Figure No.
007.00





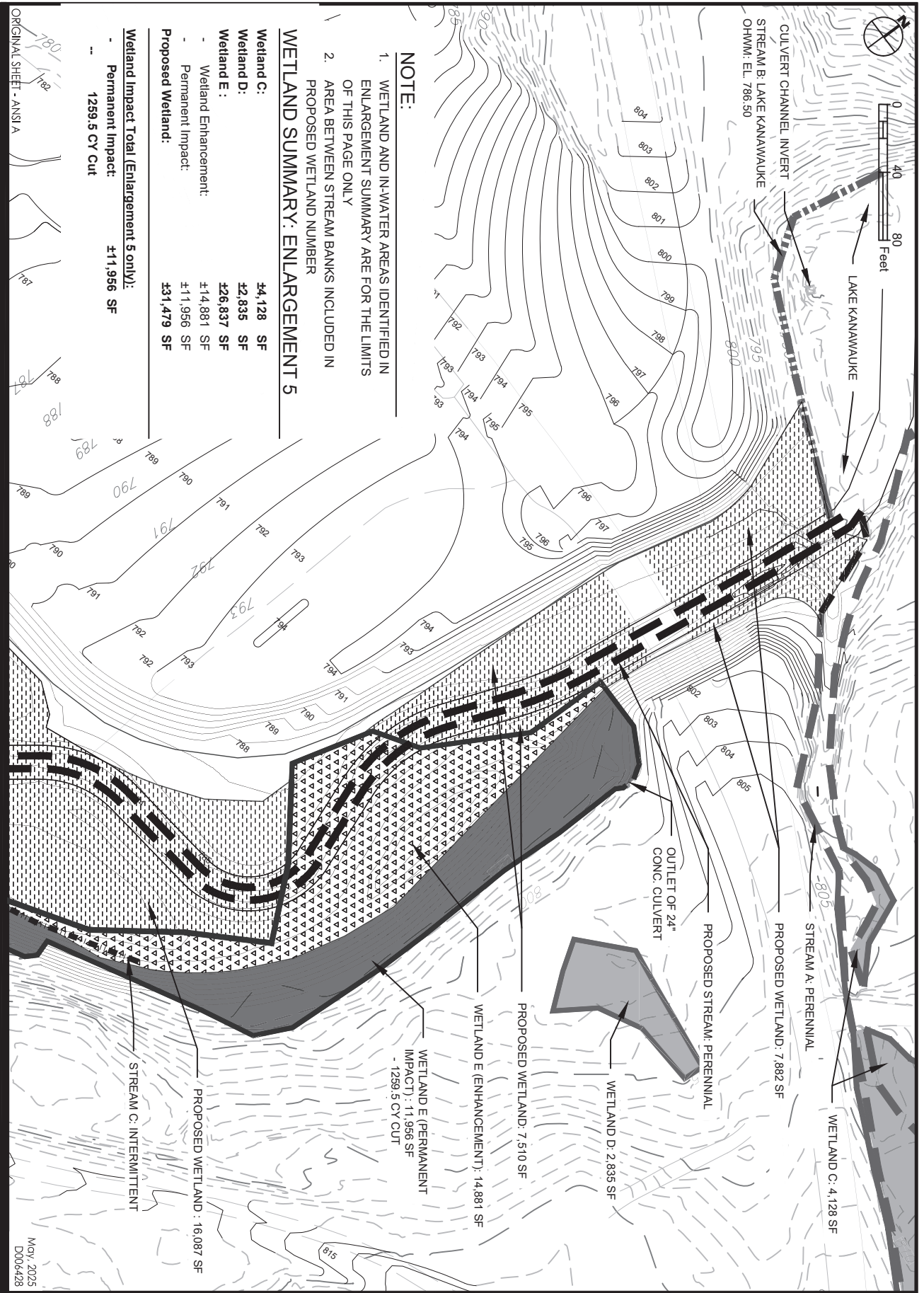
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Client/Project
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Rehabilitation of Lake Sebago
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Project Location
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Sheet Title
Wetland Enlargement - 5
Figure No.
008.00
May 2025
D006428





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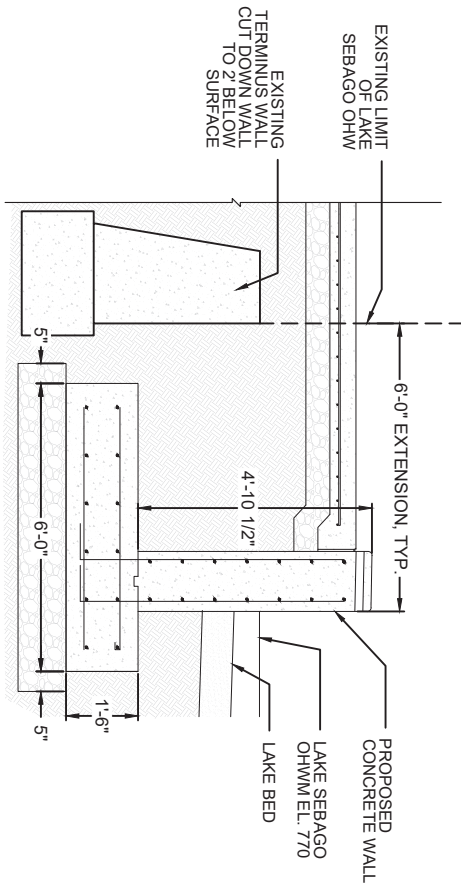
Project Location
Harriman State Park
488 Seven Lakes Drive
Pomona, NY 10970

Sheet Title
Wetland Enlargement - 6
Figure No.
009.00

ORIGINAL SHEET - ANSI A

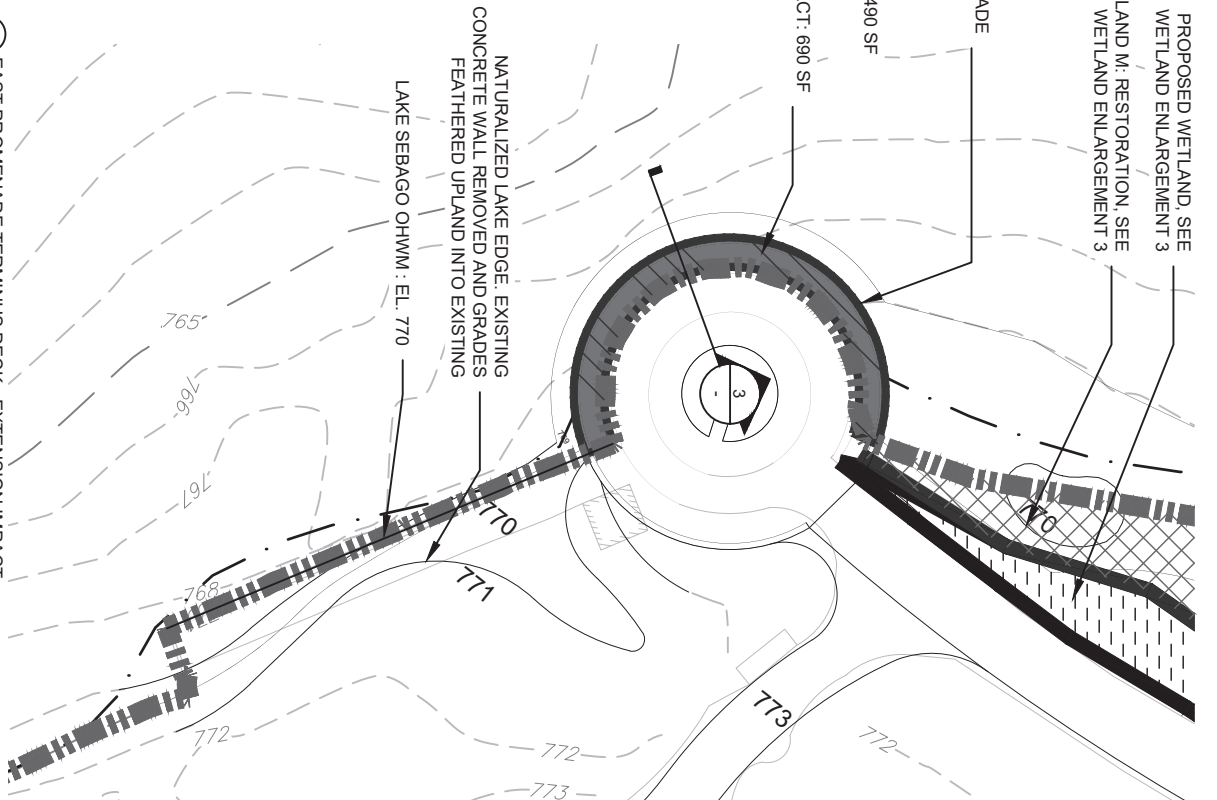
3 CONCRETE WALL AT TERMINAL DECK, TYP. SECTION

SCALE: 1/4" = 1'-0"



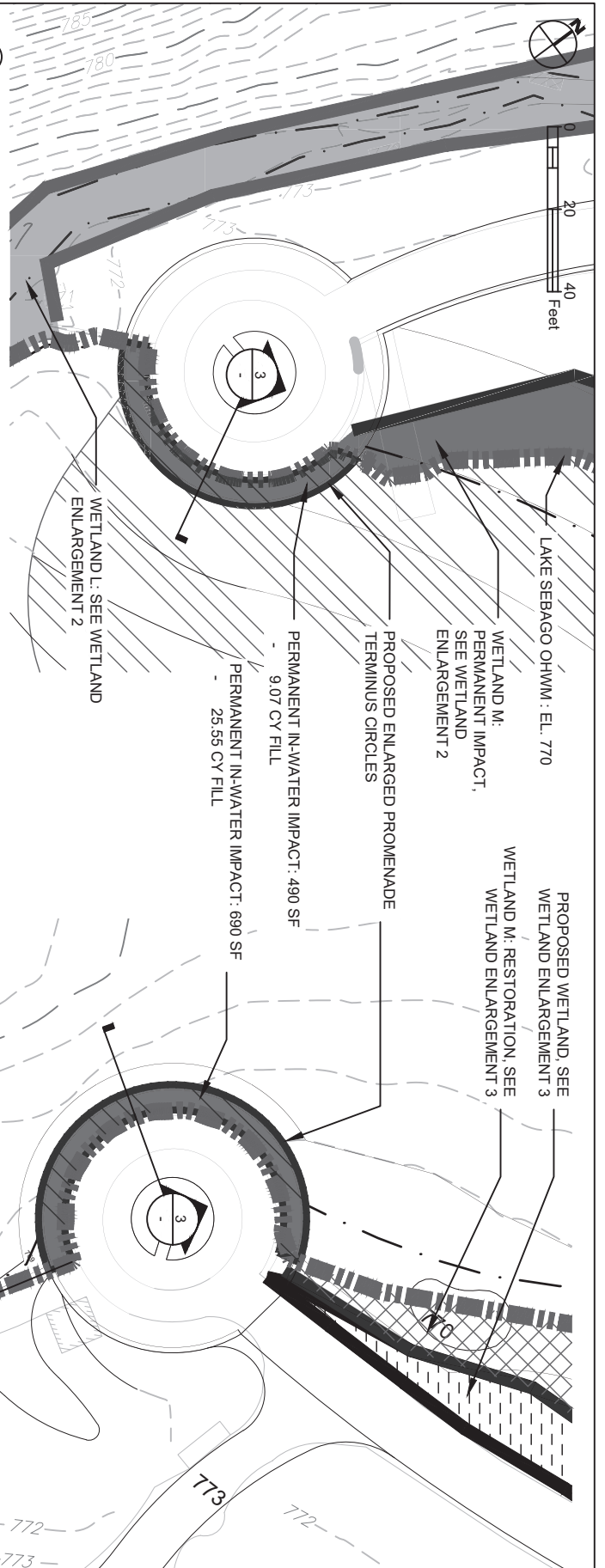
2 EAST PROMENADE TERMINUS DECK - EXTENSION IMPACT

SCALE: 1" = 40'-0"



1 WEST PROMENADE TERMINUS DECK - EXTENSION IMPACT

SCALE: 1" = 40'-0"



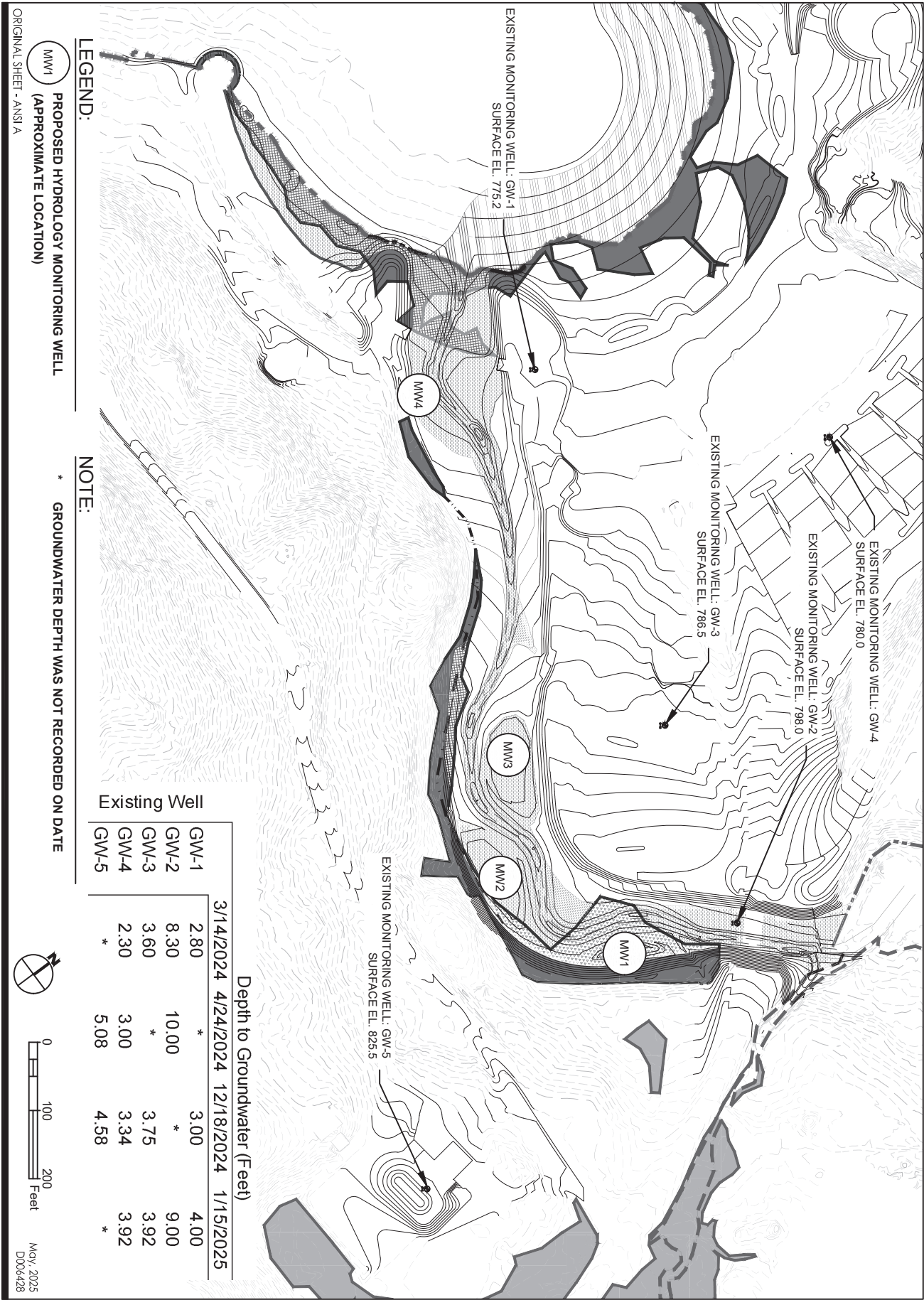


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NYS OPRHP Palisades Region
Rehabilitation of Lake Sebago
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Sheet Title
Groundwater Plan
Figure No.
010.00





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Project Location
NYS OPRHP Palisades Region
Rehabilitation of Lake Sebago
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Sheet Title
Section Key Plan
Figure No.
011.00

ORIGINAL SHEET - ANSI A



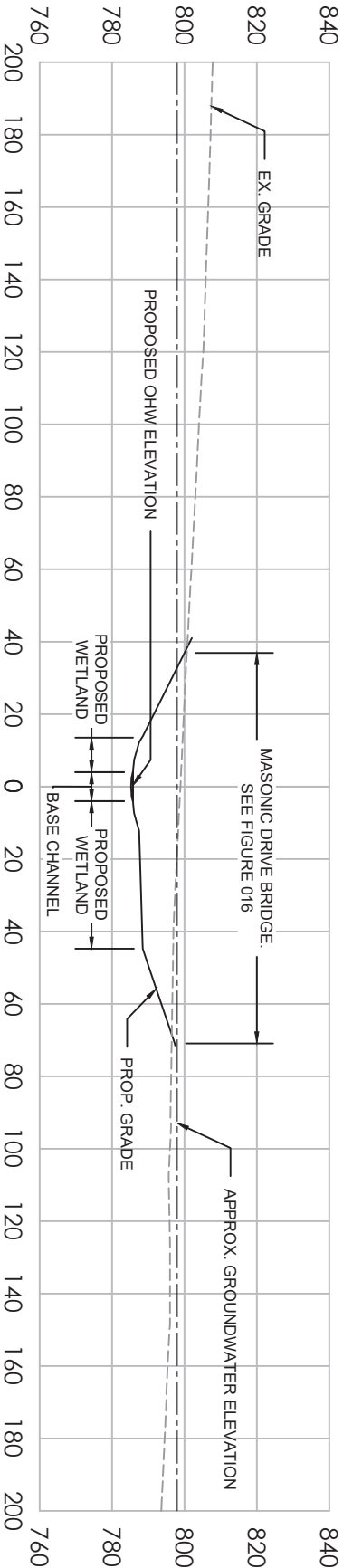
May, 2025
D006428





NOTE:

GROUNDWATER ELEVATION SHOWN IN SECTION IS BASED ON OBSERVED
ON-SITE READINGS. REFERENCE FIGURE 010 FOR WELL LOCATIONS AND
GROUNDWATER DEPTH DATA



ORIGINAL SHEET - ANSI A

May, 2025
D006428



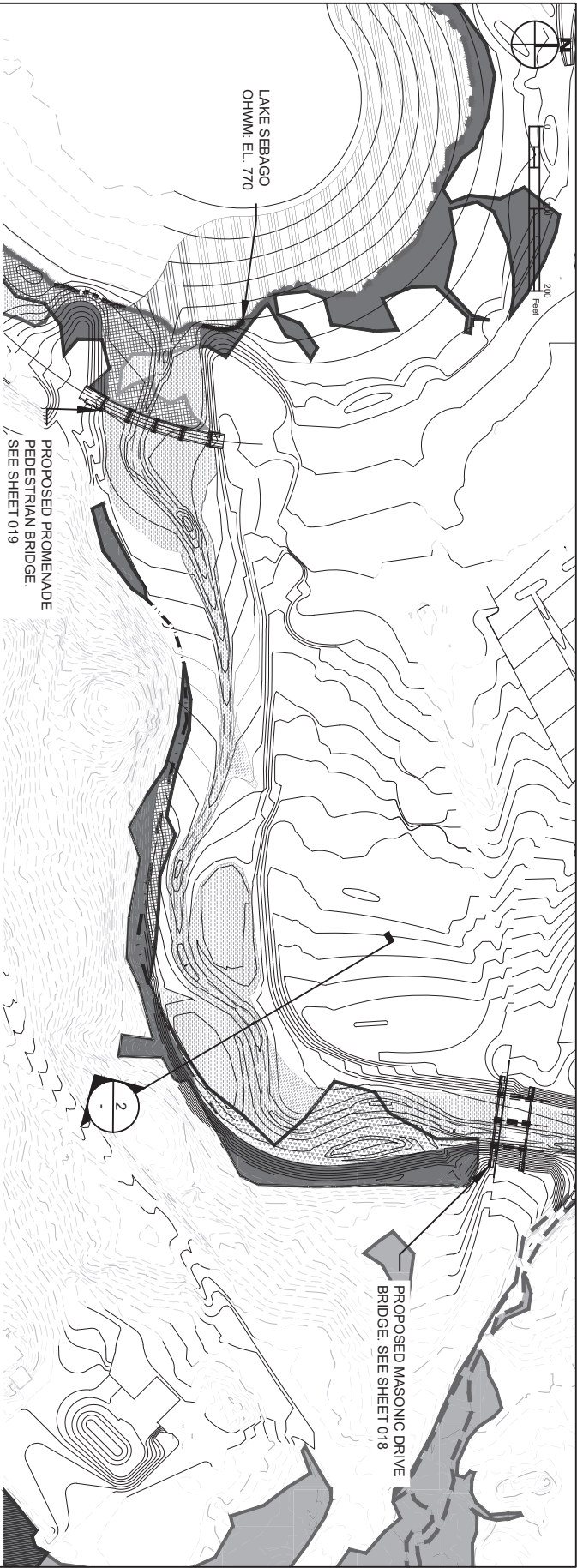
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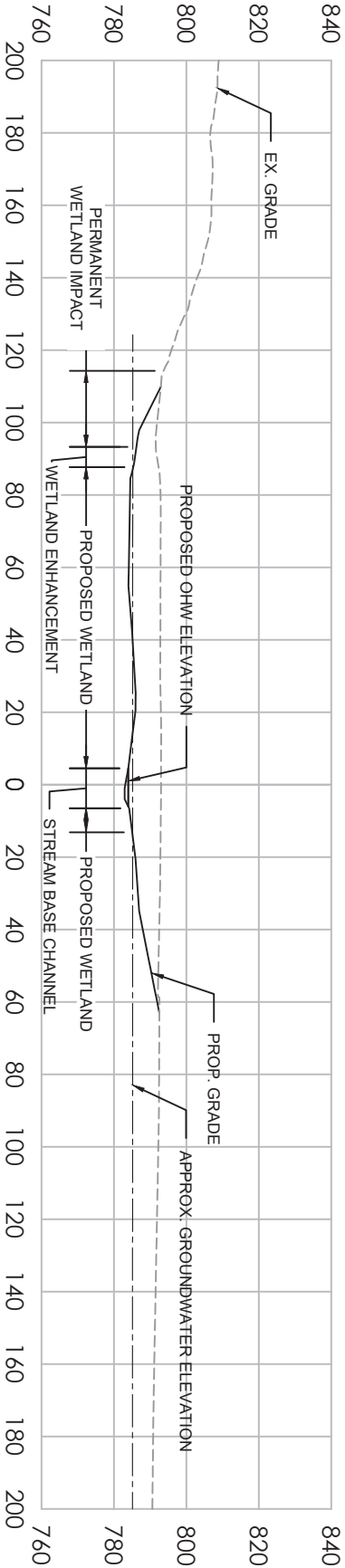
Project Location
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Sheet Title
Stream Corridor Section - 1
Figure No.
012.00



NOTE:

GROUNDWATER ELEVATION SHOWN IN SECTION IS BASED ON OBSERVED ON-SITE READINGS. REFERENCE FIGURE 010 FOR WELL LOCATIONS AND GROUNDWATER DEPTH DATA



ORIGINAL SHEET - ANSI A

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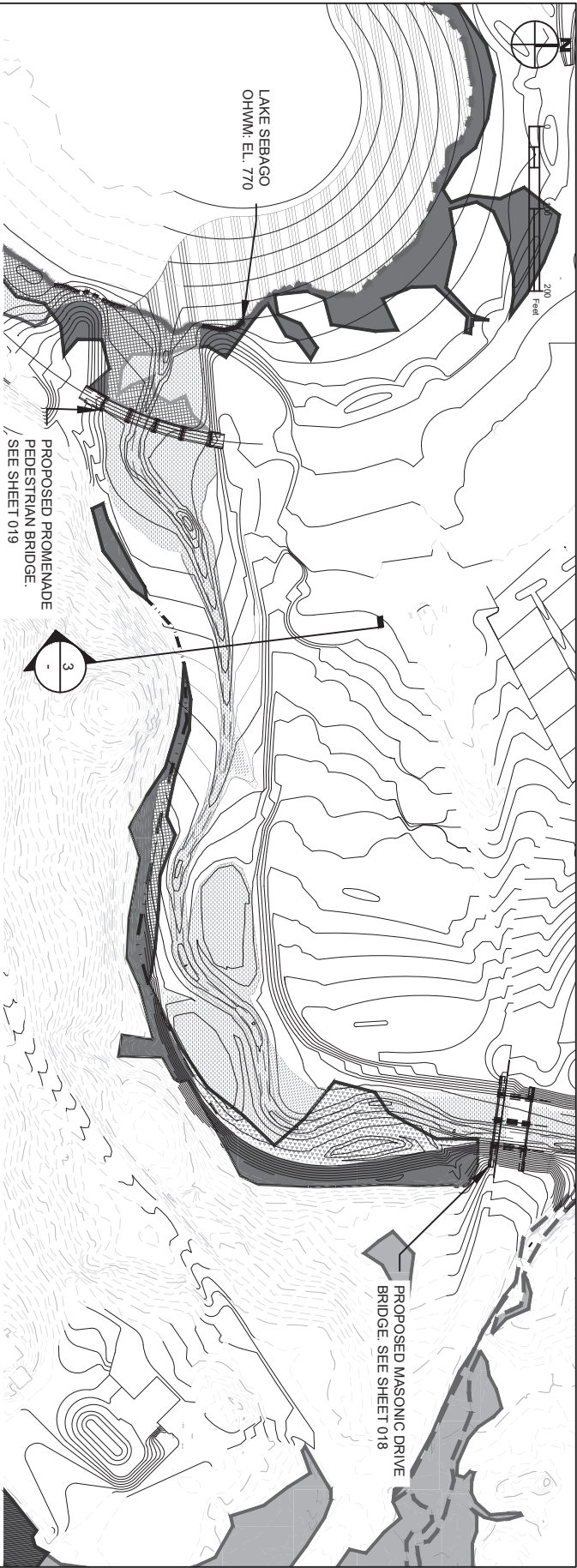
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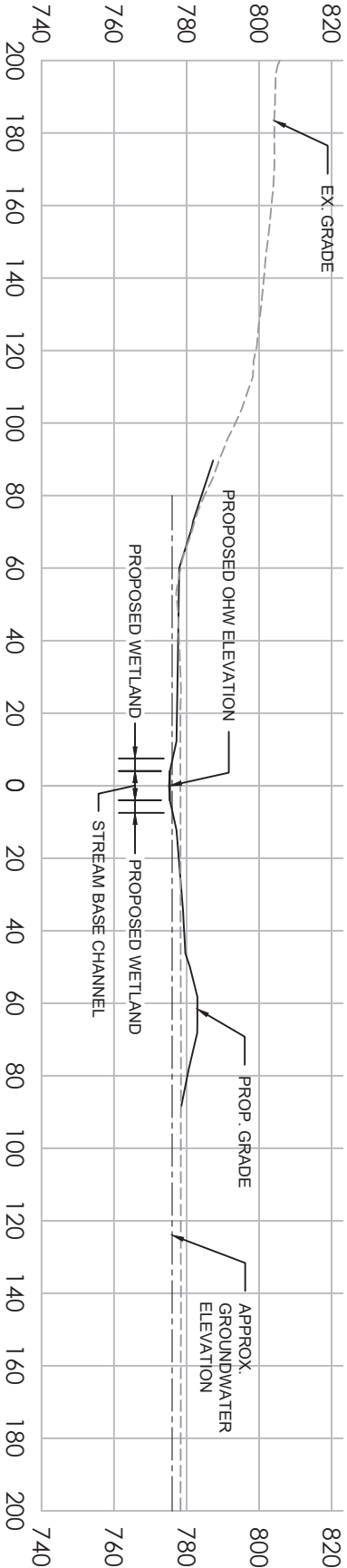
Project location
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Sheet Title
Stream Corridor Section - 2
Figure No.
013.00



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ON-SITE READINGS. REFERENCE FIGURE 010 FOR WELL LOCATIONS AND
GROUNDWATER DEPTH DATA



ORIGINAL SHEET - ANSI A

May, 2025
D006428



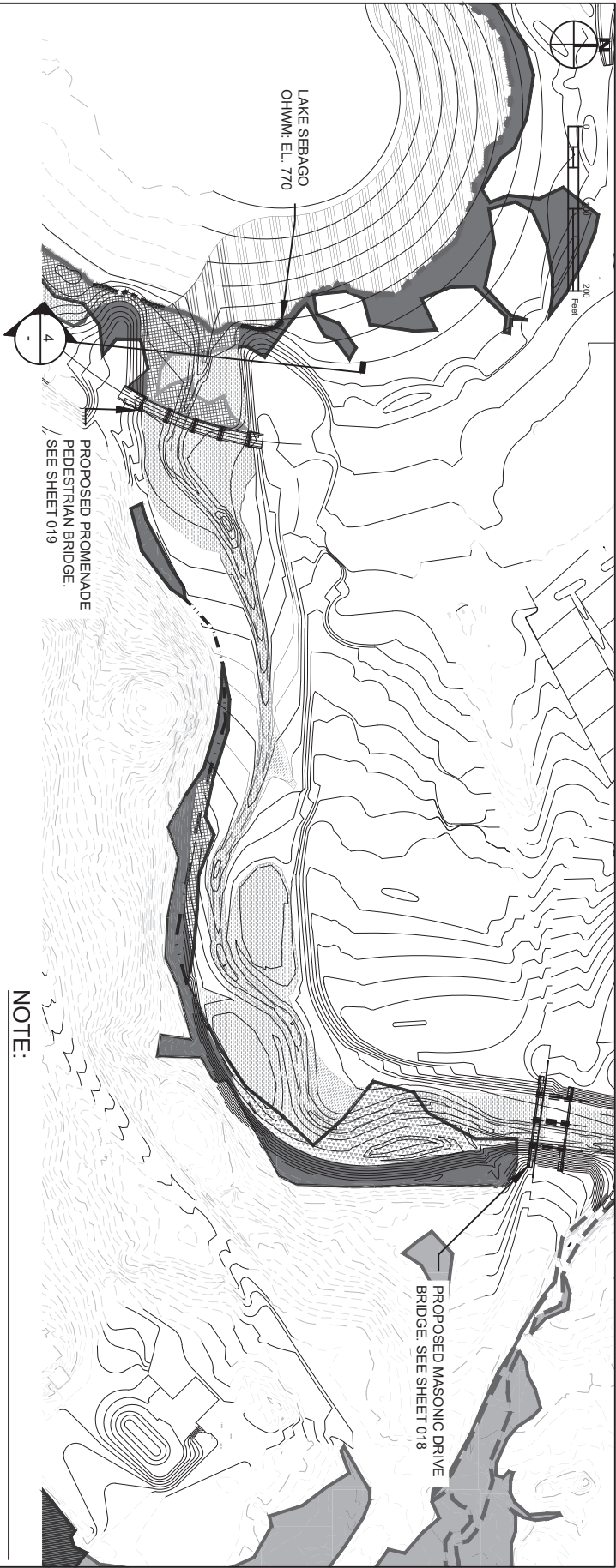
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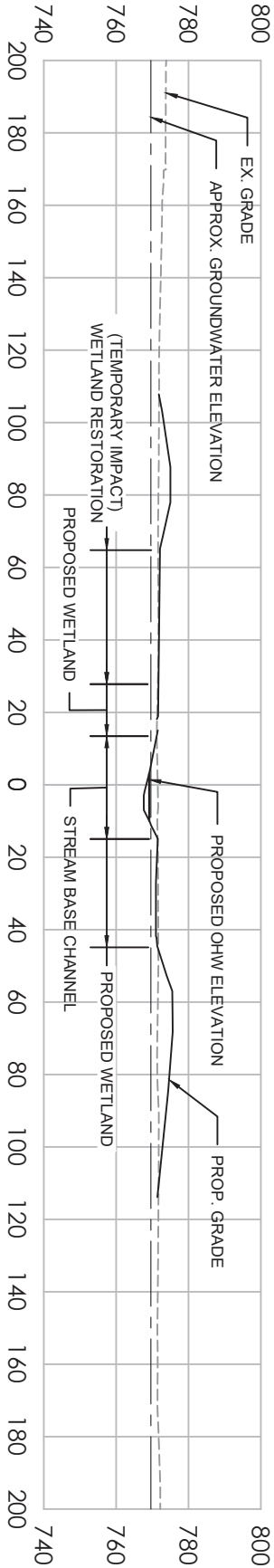
Project Location
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Sheet Title
Stream Corridor Section - 3
Figure No.
014.00



NOTE:

GROUNDWATER ELEVATION SHOWN IN SECTION IS BASED ON OBSERVED ON-SITE READINGS. REFERENCE FIGURE 010 FOR WELL LOCATIONS AND GROUNDWATER DEPTH DATA



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Sheet Title
Stream Corridor Section - 4
Figure No.
015.00



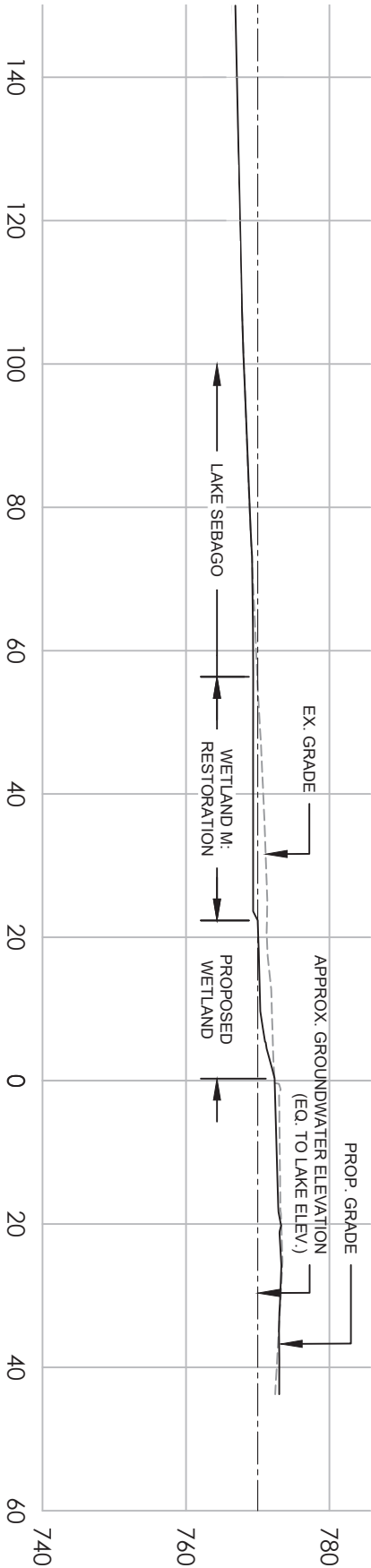
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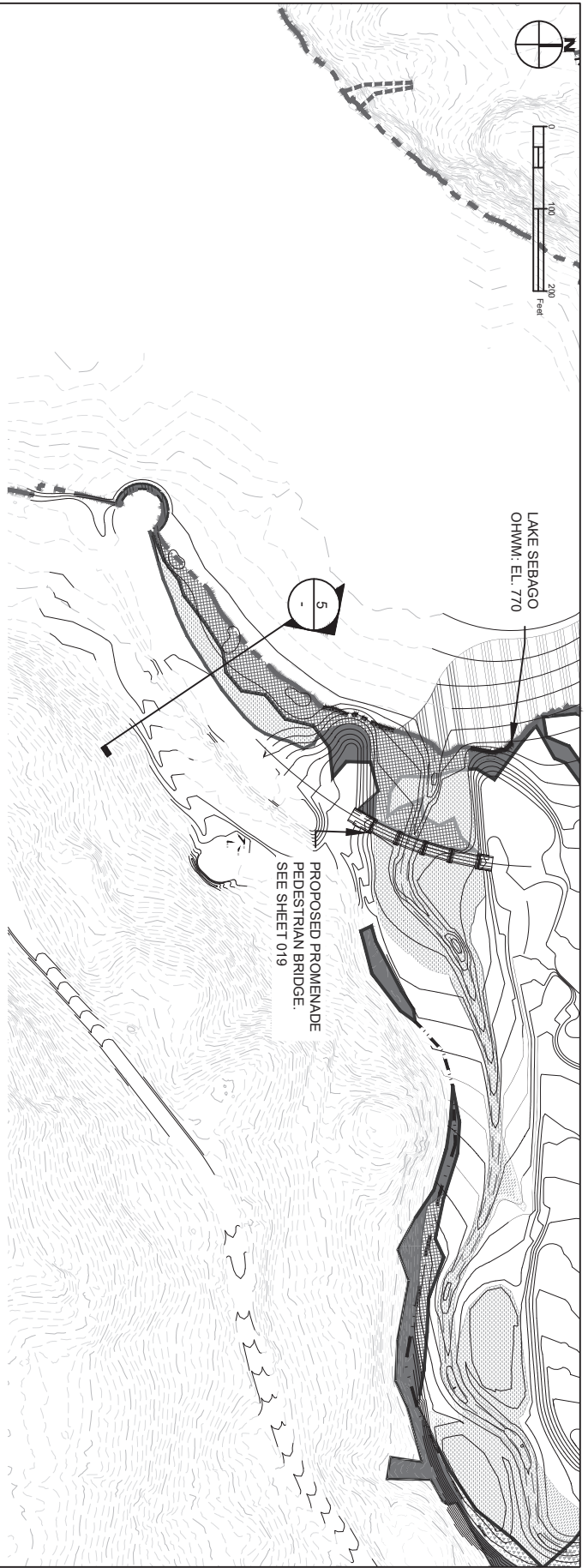
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Sheet Title
Wetland Section - 5
Figure No.
016.00

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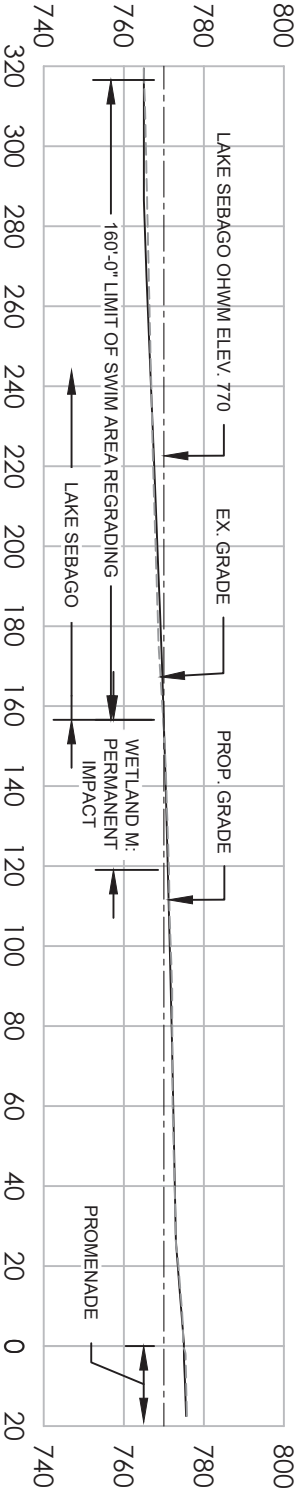
NOTE:
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NOTE:

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Sheet Title
Wetland Section - 6
Figure No.
017.00



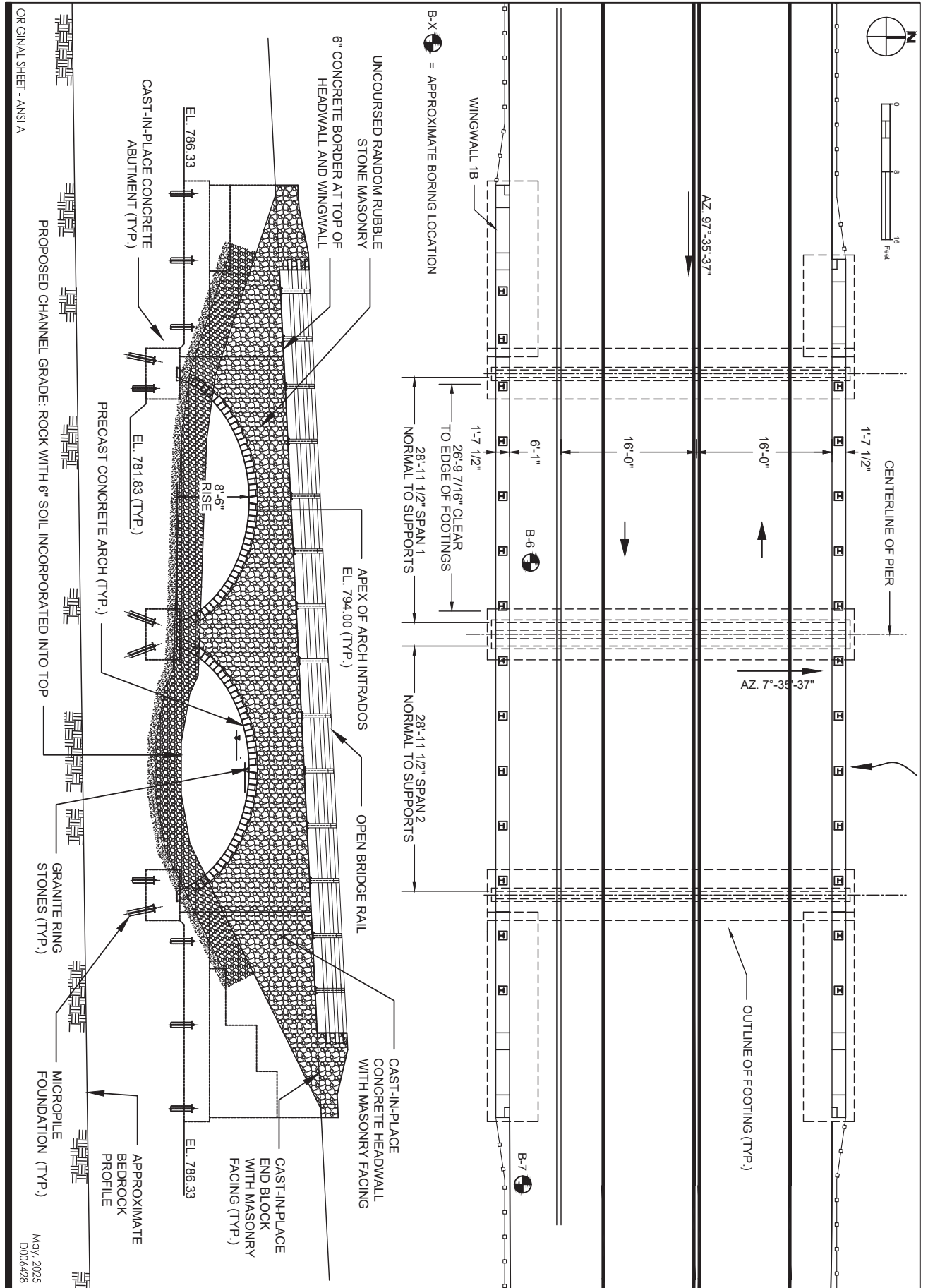
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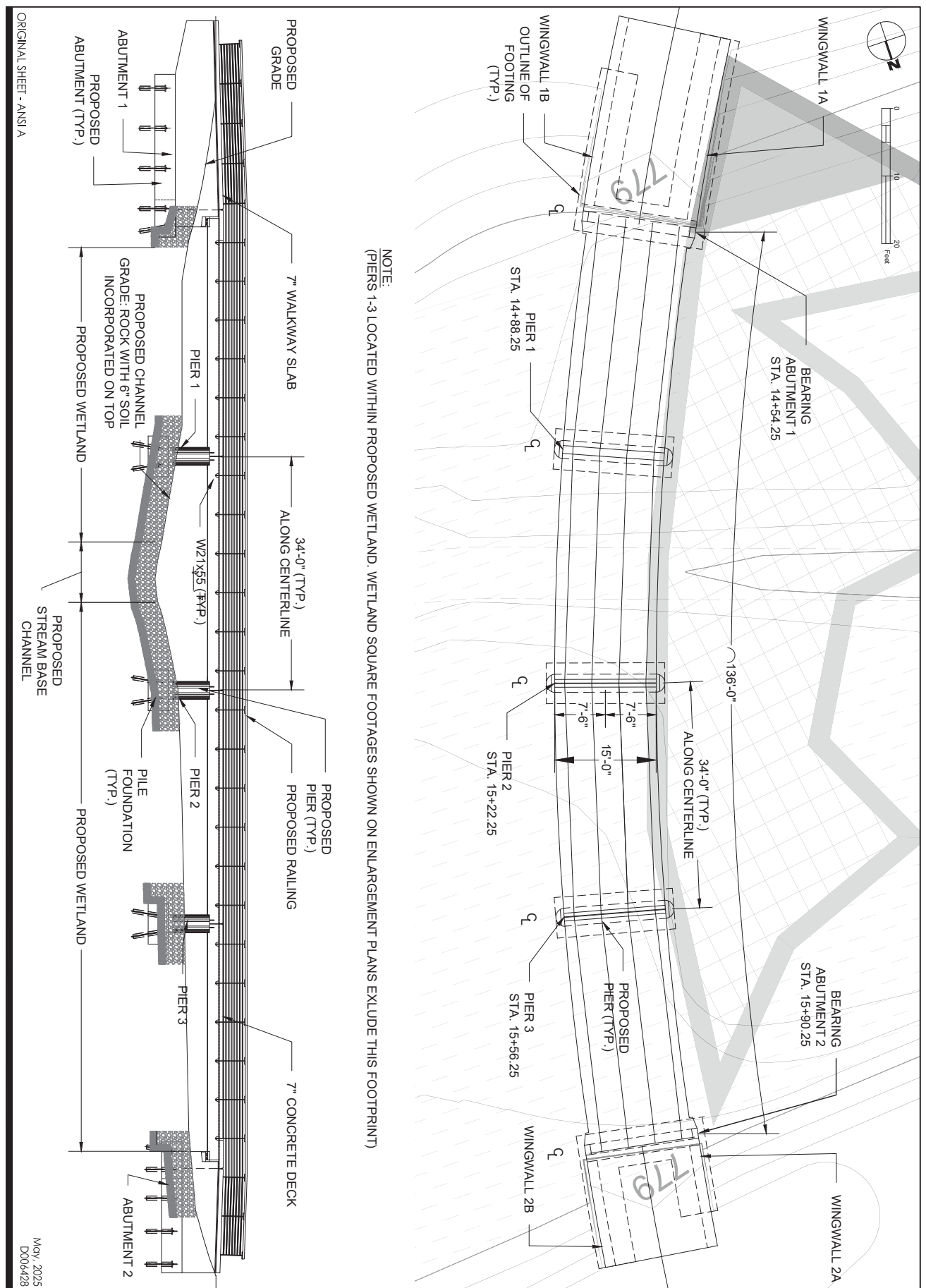
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Sheet Title
Masonic Drive Bridge
Figure No.
018.00



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Sheet Title
Promenade Ped. Bridge
Figure No.
019.00



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Sheet Title
Grading Enlargement - 1
Figure No.
020.00



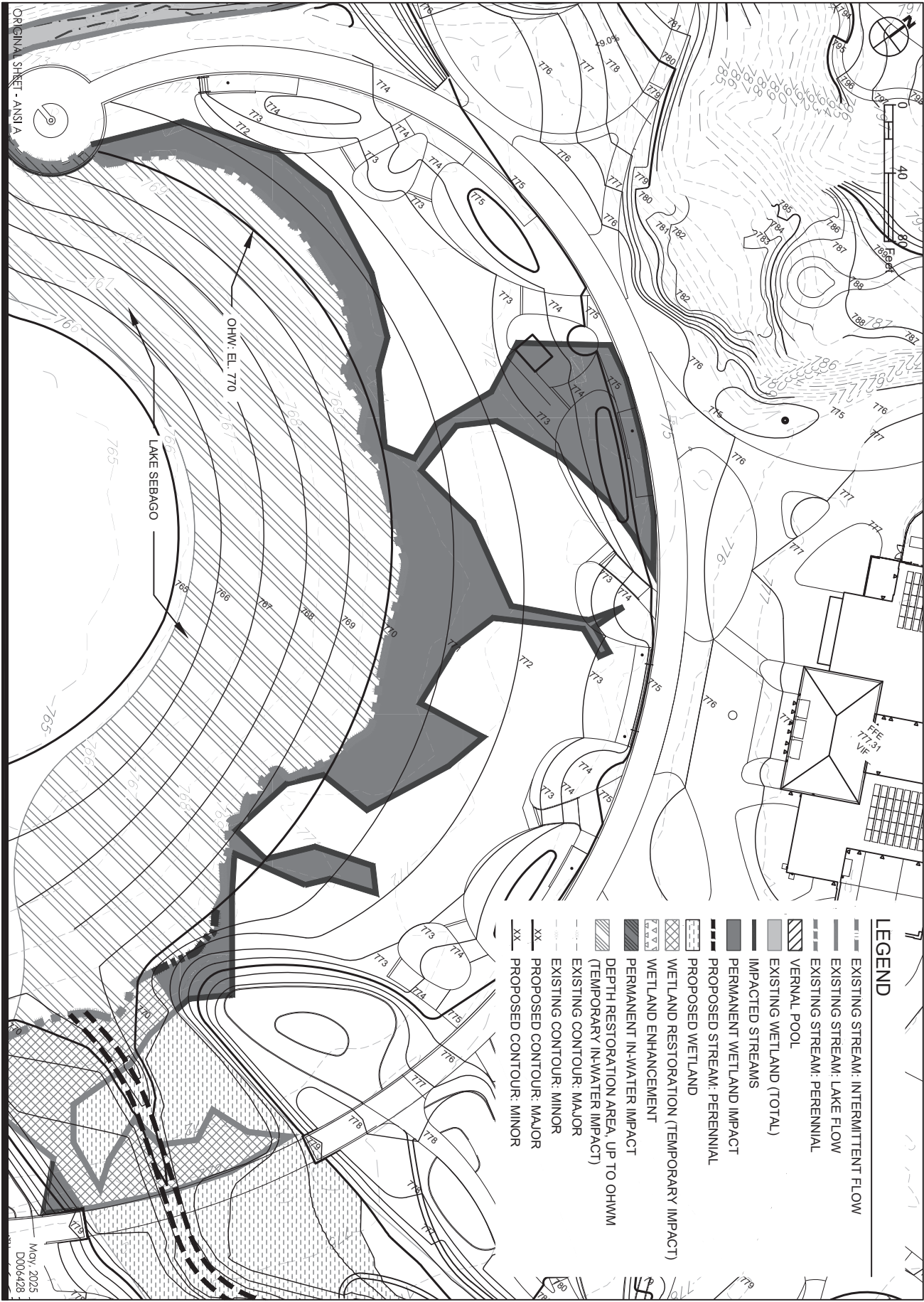


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Sheet Title
Grading Enlargement - 2
Figure No.
021.00





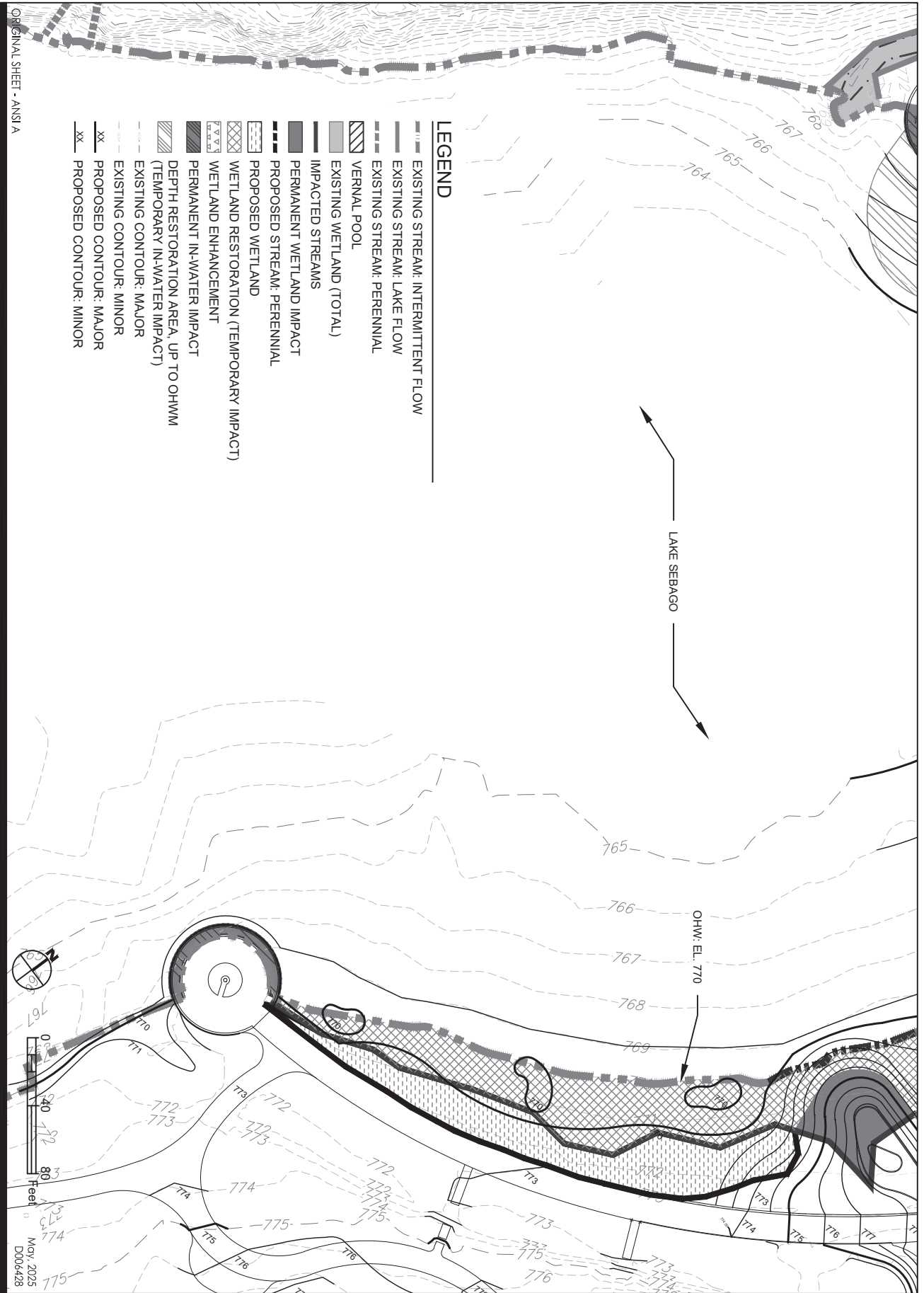
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Sheet Title
Grading Enlargement - 3
Figure No.
022.00



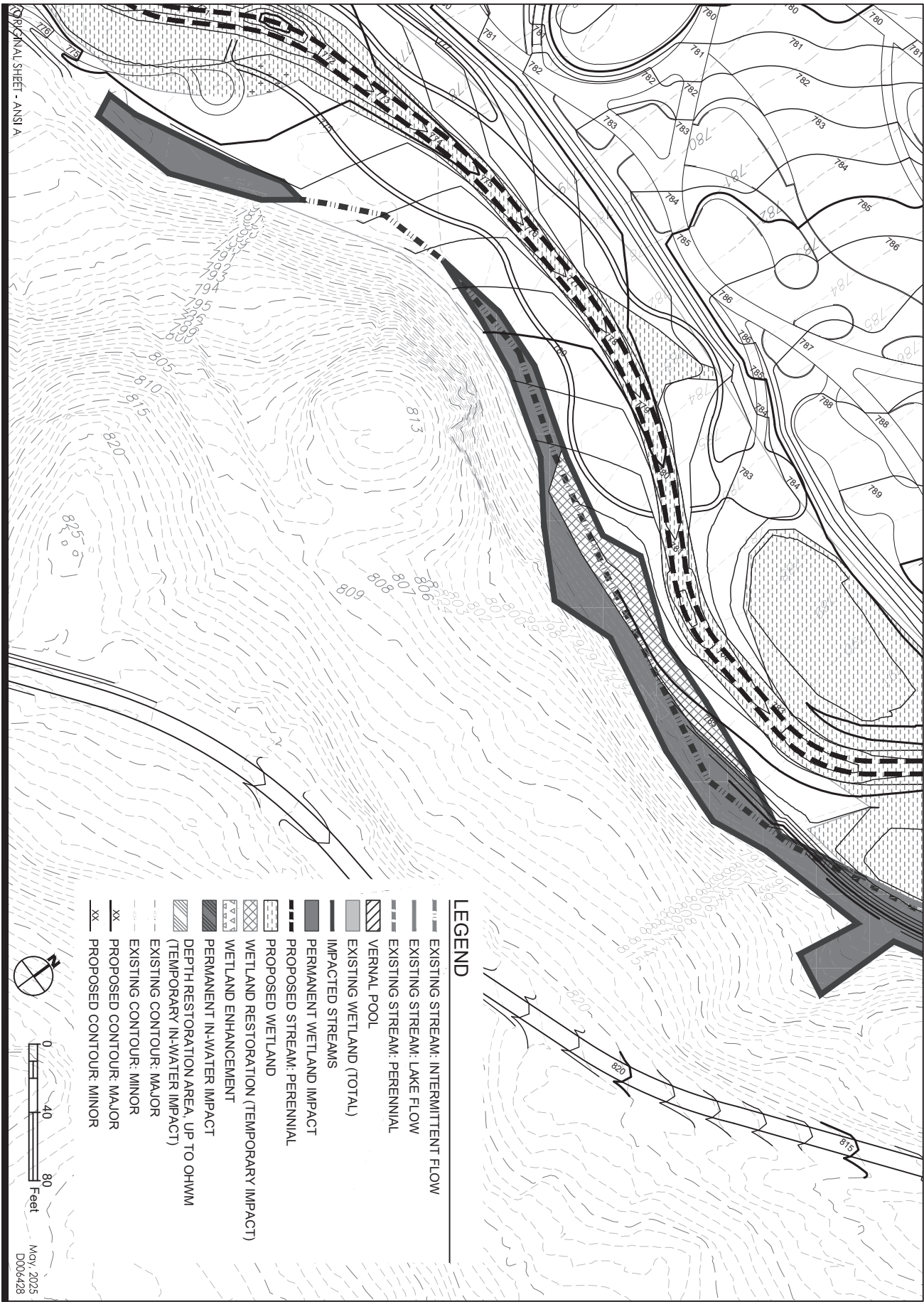


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Sheet Title
Grading Enlargement - 4
Figure No.
023.00





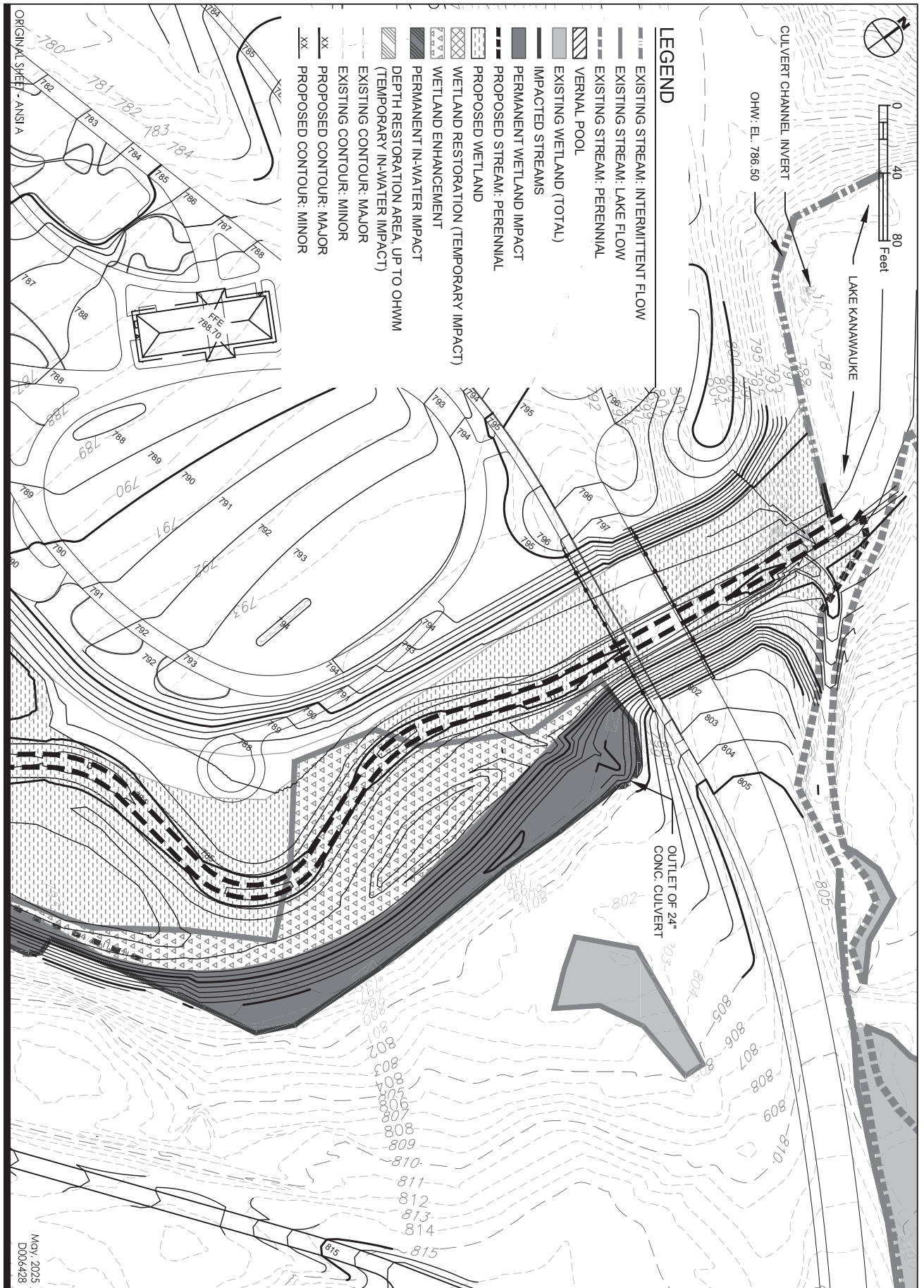
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Sheet Title
Grading Enlargement - 5
Figure No.
024.00



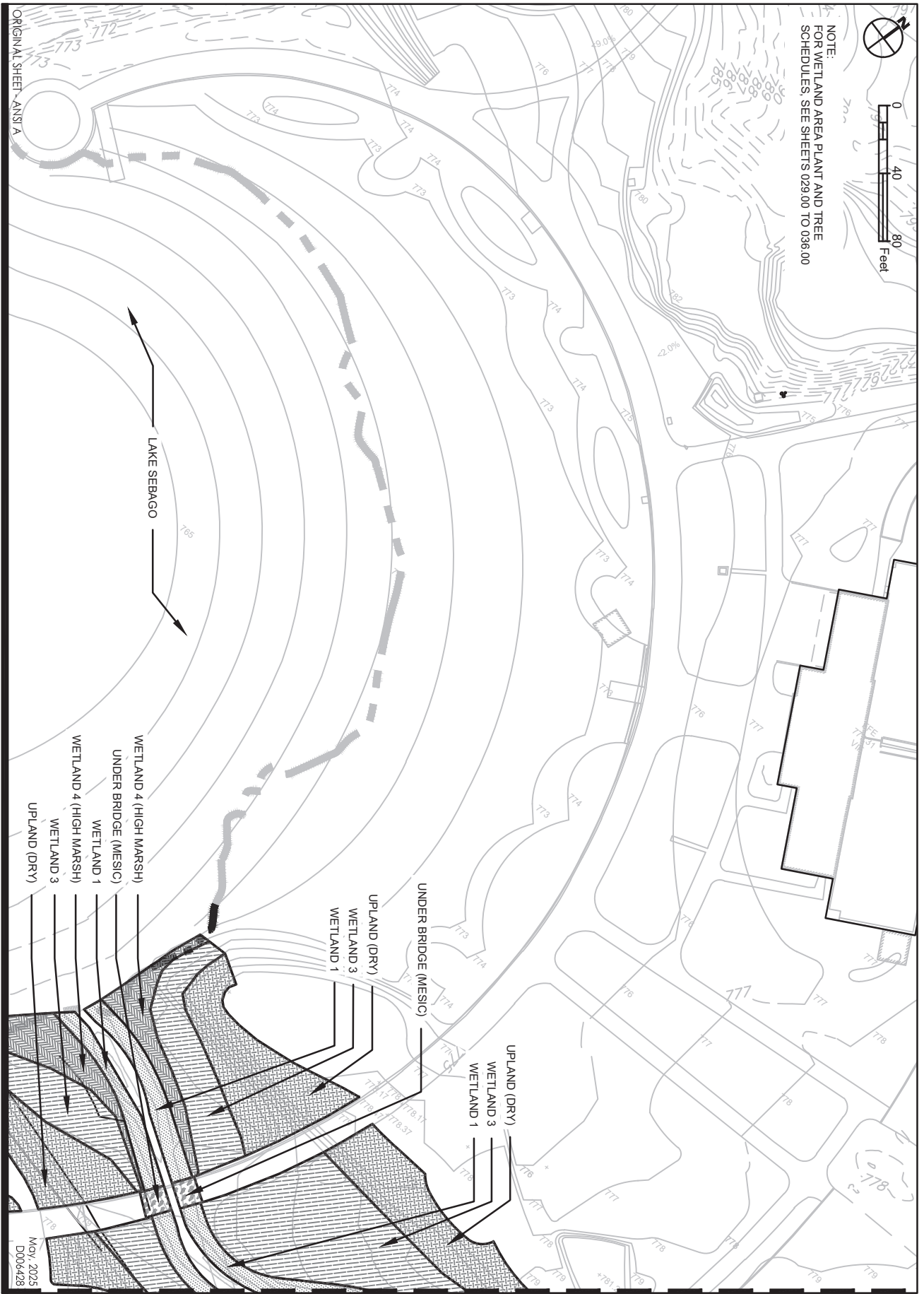


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Sheet Title
Plant Zone Enlargement - 1
Figure No.
025.00
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D006428





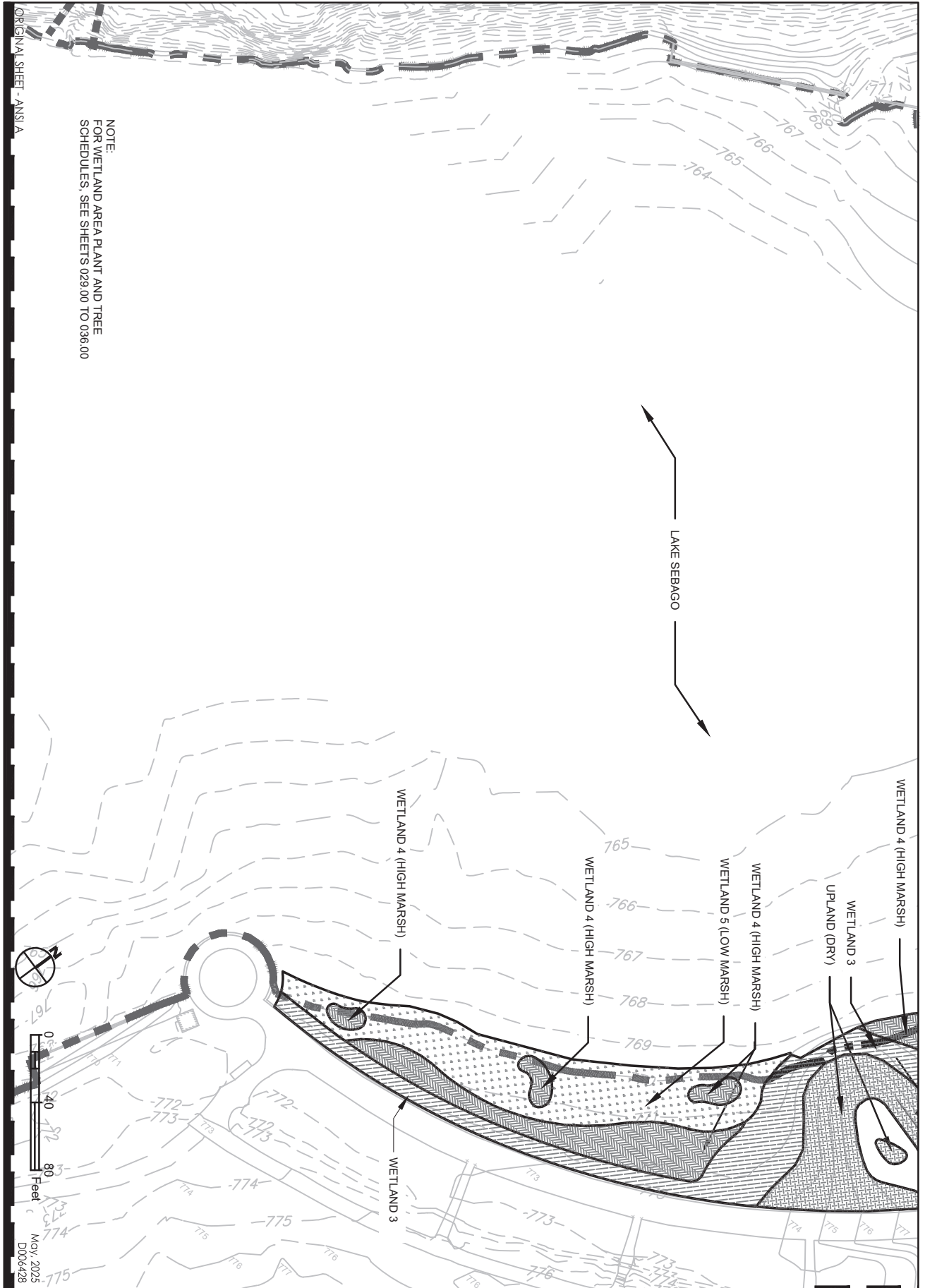
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Sheet Title
Plant Zone Enlargement - 2
Figure No.
026.00
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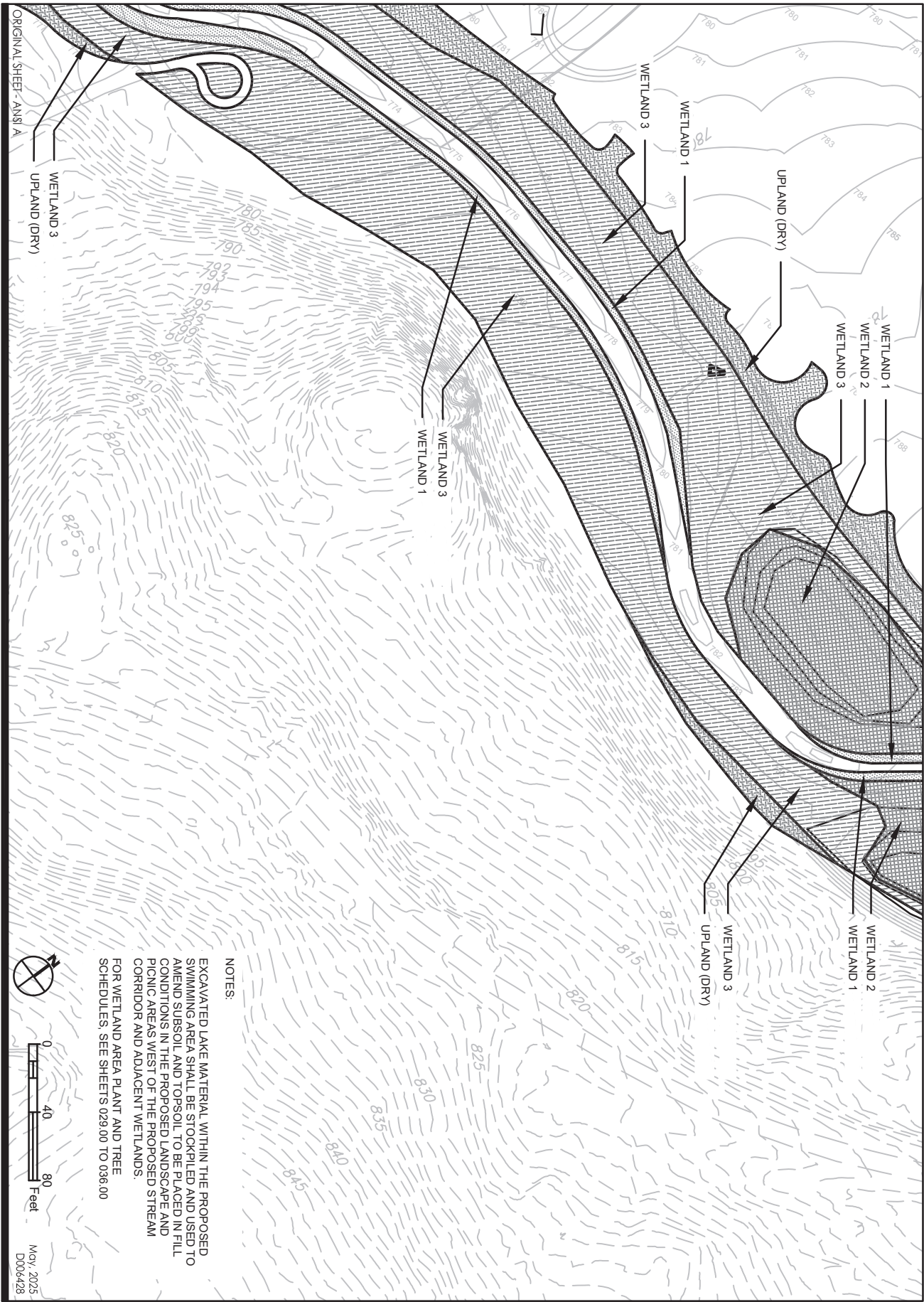
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Sheet Title
Plant Zone Enlargement - 3
Figure No.
027.00



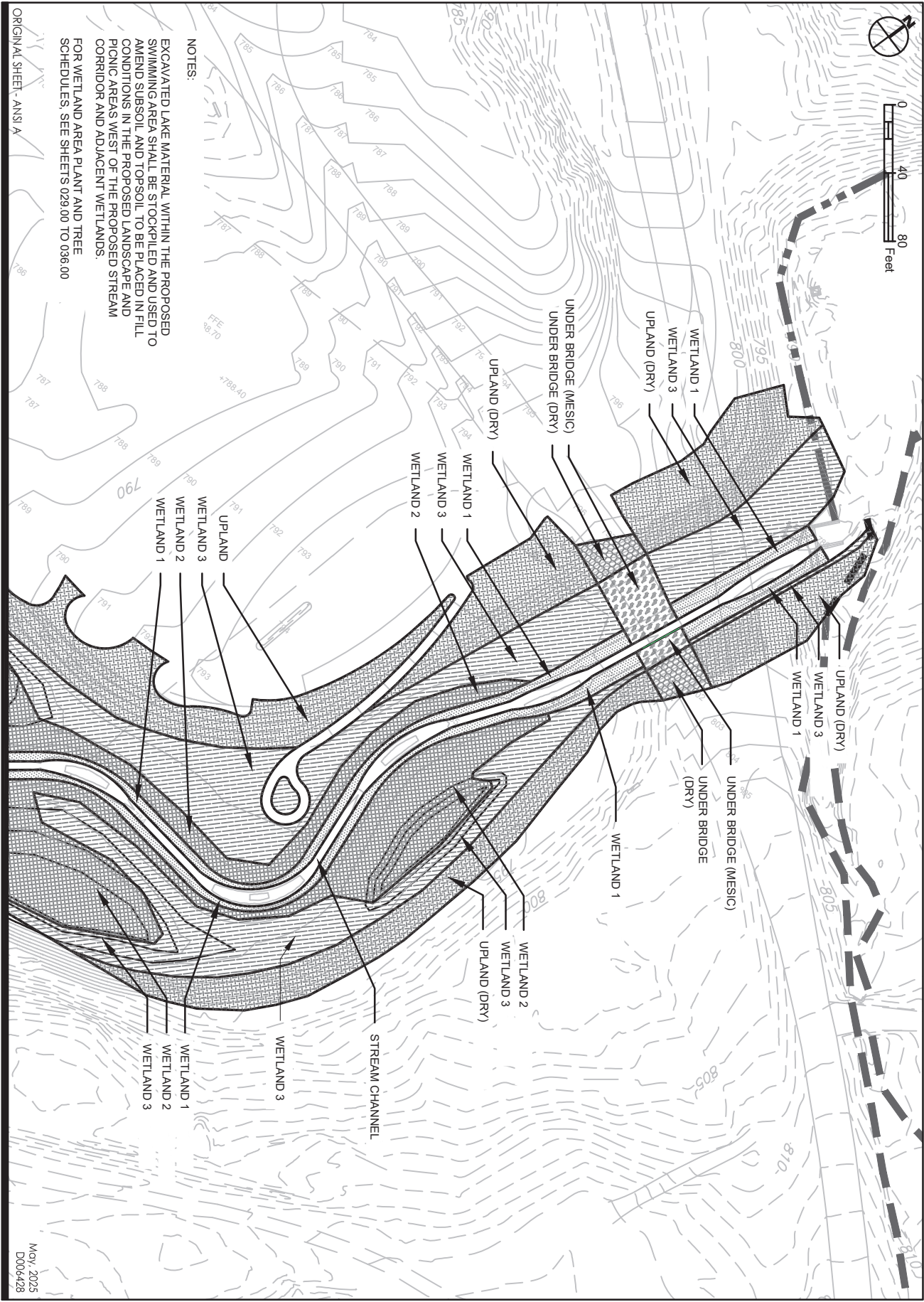


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Sheet Title
Plant Zone Enlargement - 4
Figure No.
028.00



NOTES:
EXCAVATED LAKE MATERIAL WITHIN THE PROPOSED SWIMMING AREA SHALL BE STOCKPILED AND USED TO AMEND SUBSOIL AND TOPSOIL TO BE PLACED IN FILL CONDITIONS IN THE PROPOSED LANDSCAPE AND PICNIC AREAS WEST OF THE PROPOSED STREAM CORRIDOR AND ADJACENT WETLANDS.
FOR WETLAND AREA PLANT AND TREE SCHEDULES, SEE SHEETS 029.00 TO 036.00

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Sheet Title
Wetland 1 - Plant List
Figure No.
029.00

ORIGINAL SHEET - ANSI A

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Wetland 1 (stream)

Seed mix

Area in acres:	0.38	Percent by weight	Quantity (lb)	Quantity (oz)	Species	Size	Wetland Indicator
Area in sq ft:	16,446	22.33%	0.99	15.79	<i>Blechn frondosa</i>	Seed	OBL
Total seeds per sq ft:	120	0.35%	0.02	0.25	<i>Calamagrostis canadensis</i>	Seed	OBL
Total seed mix (lb):	4.42	5.58%	0.25	3.95	<i>Carex comosa</i>	Seed	OBL
Seed mix per acre (lb):	11.71	4.12%	0.18	2.91	<i>Carex crinita</i>	Seed	OBL
		7.44%	0.33	5.26	<i>Carex lasiocarpus</i>	Seed	OBL
		12.50%	0.55	8.84	<i>Carex lurida</i>	Seed	OBL
		3.72%	0.16	2.63	<i>Carex stricta</i>	Seed	OBL
		5.16%	0.23	3.65	<i>Carex vulpinoidea</i>	Seed	OBL
		17.86%	0.79	12.63	<i>Elymus riparius</i>	Seed	FACW
		0.20%	0.01	0.14	<i>Juncus effusus</i>	Seed	OBL
		0.12%	0.01	0.08	<i>Lobelia cardinalis</i>	Seed	OBL
		20.61%	0.91	14.57	<i>Schoenoplectus americanus</i>	Seed	OBL
		100.00%	4.42	70.71			

Cover crop

Quantity (lb)	Seed rate (lb/ac)	Species	Size
3.78	10	<i>Echinochloa crusgalli</i> var. <i>frumentacea</i>	Seed
		(May 1 to August 31)	
11.33	30	OR: <i>Secale cereale</i>	Seed
		(September 1 to April 30)	

Landscape plugs

Plug spacing (in o.c., triangular): 18
Total plugs per zone: 8,387

Quantity (each)	Species	Size	Wetland Indicator
4,887	<i>Carex emoryi</i>	LP	OBL
500	<i>Equisetum hyemale</i>	LP	FAC
3000	<i>Packera aurea</i>	LP	FACW
8,387			

Shrubs

Shrubs per acre ratio	167	Quantity (each)	Species	Size	Wetland Indicator
		55	<i>Ainus serrulata</i>	4' - 6' Ht.	OBL
		4	<i>Cephaanthus occidentalis</i>	4' - 6' Ht.	OBL
		8	<i>Ilex verticillata</i>	6' - 8' Ht.	FACW
		3	<i>Lindera benzoin</i>	6' - 8' Ht.	FACW
		52	<i>Salix sericea</i>	4' - 6' Ht.	OBL

Wetland 2 (always wet)

Seed mix

Area in acres:	0.63	Percent by weight	Quantity (lb)	Quantity (oz)	Species	Size	Wetland Indicator
Area in sq ft:	27,620	17.11%	1.59	25.50	<i>Bidens cernua</i>	Seed	OBL
Total seeds per sq ft:	150	5.56%	0.52	8.29	<i>Carex comosa</i>	Seed	OBL
Total seed mix (lb):	9.31	4.11%	0.38	6.12	<i>Carex crinita</i>	Seed	OBL
Seed mix per acre (lb):	14.69	2.67%	0.25	3.98	<i>Carex frankii</i>	Seed	OBL
		8.90%	0.83	13.26	<i>Carex lurida</i>	Seed	OBL
		2.09%	0.19	3.11	<i>Carex muskingumensis</i>	Seed	OBL
		4.94%	0.46	7.37	<i>Carex stricta</i>	Seed	OBL
		4.80%	0.45	7.16	<i>Carex vulpinoidea</i>	Seed	OBL
		14.23%	1.33	21.21	<i>Elymus riparius</i>	Seed	FACW
		18.28%	1.70	27.24	<i>Elymus virginicus</i>	Seed	FACW
		0.20%	0.02	0.29	<i>Juncus effusus</i>	Seed	OBL
		0.02%	0.00	0.02	<i>Juncus tenuis</i>	Seed	FAC
		17.11%	1.59	25.50	<i>Schoenoplectus americanus</i>	Seed	OBL
		100.00%	9.31	149.02			

Cover crop

Quantity (lb)	Seed rate (lb/ac)	Species	Size
6.34	10	<i>Echinochloa crusgalli</i> var. <i>frumentacea</i>	Seed
		(May 1 to August 31)	
19.02	30	OR: <i>Secale cereale</i>	Seed
		(September 1 to April 30)	

Landscape plugs

Plug spacing (in o.c., 24 triangular):

Total plugs per zone: 8,010

Quantity (each)	Species	Size	Wetland Indicator
4,000	<i>Carex amoryi</i>	LP	OBL
2,510	<i>Packera aurea</i>	LP	FACW
700	<i>Oenoclea sensibilis</i>	LP/BR	FACW
400	<i>Osmunda cinnamomea</i>	LP/BR	FACW
400	<i>Osmunda claytoniana</i>	LP/BR	FAC
8,010			

Trees and Shrubs

Trees per acre ratio	235	Quantity (each)	Species	Size	Wetland Indicator
		12	<i>Acer saccharinum</i>	4' - 6' Ht.	FACW
		11	<i>Acer saccharum</i>	4' - 6' Ht.	FACU
		7	<i>Alnus serrulata</i>	4' - 6' Ht.	OBL
		12	<i>Betula nigra</i>	4' - 6' Ht.	FACW
		12	<i>Ilex verticillata</i>	6' - 8' Ht.	FACW
		26	<i>Lindera benzoin</i>	6' - 8' Ht.	FACW
		33	<i>Platanus occidentalis</i>	2" Cal.	FACW
		2	<i>Quercus bicolor</i>	4' - 6' Ht.	FACW
		1	<i>Quercus mitis</i>	4' - 6' Ht.	FACW
		8	<i>Quercus palustris</i>	4' - 6' Ht.	FACW
		5	<i>Quercus phellos</i>	4' - 6' Ht.	FACW
		16	<i>Salix nigra</i>	6' - 8' Ht.	OBL
		4	<i>Salix sericea</i>	4' - 6' Ht.	OBL

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Sheet Title
Wetland 2 - Plant List
Figure No.
030.00

Wetland 3 (occasionally wet)

Seed mix

Area in acres: 2.13
Area in sq ft: 92,776
Total seeds per sq ft: 150
Total seed mix (lb): 92.40
Seed mix per acre (lb): 43.38

Percent by weight	Quantity (lb)	Quantity (oz)	Species	Size	Wetland Indicator
1.05%	0.97	15.46	<i>Agrimonia parviflora</i>	Seed	FAC
0.25%	0.23	3.71	<i>Ageratina altissima</i>	Seed	FACU
1.30%	1.20	19.20	<i>Carex brevior</i>	Seed	FAC
4.24%	3.91	62.62	<i>Carex muskingumensis</i>	Seed	OBL
0.58%	0.54	8.58	<i>Carex vulpinoidea</i>	Seed	OBL
16.73%	15.46	247.40	<i>Chasmanthium latifolium</i>	Seed	FACW
1.77%	1.64	26.19	<i>Chasmanthium laxum</i>	Seed	FACW
26.42%	24.41	390.64	<i>Elymus canadensis</i>	Seed	FACU
41.26%	38.12	609.97	<i>Elymus virginicus</i>	Seed	FACW
2.46%	2.27	36.35	<i>Festuca rubra</i>	Seed	FACU
2.15%	1.99	31.81	<i>Panicum clandestinum</i>	Seed	FACW
1.13%	1.04	16.70	<i>Penstemon digitalis</i>	Seed	FAC
0.01%	0.01	0.19	<i>Scirpus cyperinus</i>	Seed	OBL
0.65%	0.60	9.58	<i>Tridens flavus</i>	Seed	UPL
100.00%	92.40	1,478.40			

Cover crop

Quantity (lb)	Seed rate (lb/ac)	Species	Size
25.96	12	<i>Lolium multiflorum</i>	Seed

Landscape plugs

Plug spacing (in o.c., triangular): 48
Total plugs per zone: 6,494

Quantity (each)	Species	Size	Wetland Indicator
1,200	<i>Carex amphibola</i>	LP	FAC
294	<i>Carex emoryi</i>	LP	OBL
1,000	<i>Demissaedia punctilobula</i>	LP/BR	UPL
3,000	<i>Packera aurea</i>	LP	FACW
1,000	<i>Thelypteris noveboracensis</i>	LP/BR	FAC
6,494			

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Sheet Title
Wetland 3 - Plant List
Figure No.
031.00

Wetland 3 (occasionally wet)

Trees and Shrubs

Trees per acre ratio	194	Quantity (each)	Species	Size	Wetland Indicator
		5	<i>Acer rubrum</i>	2" Cal.	FAC
		30	<i>Acer rubrum</i>	4' - 6' Ht.	FAC
		6	<i>Acer saccharinum</i>	4' - 6' Ht.	FACW
		4	<i>Acer saccharum</i>	4' - 6' Ht.	FACU
		11	<i>Alnus serrulata</i>	4' - 6' Ht.	OBL
		11	<i>Betula alleghaniensis</i>	4' - 6' Ht.	FAC
		6	<i>Betula lenta</i>	5' - 6' Ht.	FACU
		20	<i>Betula nigra</i>	4' - 6' Ht.	FACW
		10	<i>Cephalanthus occidentalis</i>	4' - 6' Ht.	OBL
		10	<i>Chionanthus virginicus</i>	6' - 8' Ht.	FAC
		45	<i>Cornus sericea</i>	3 gal.	FAC
		1	<i>Hamamelis virginiana</i>	6' - 8' Ht.	FACU
		2	<i>Ilex verticillata</i>	6' - 8' Ht.	FACW
		8	<i>Lindera benzoin</i>	6' - 8' Ht.	FACW
		26	<i>Liriodendron tulipifera</i>	4' - 6' Ht.	FACU
		17	<i>Myrica sylvatica</i>	4' - 6' Ht.	FAC
		1	<i>Myrica sylvatica</i> 'Wildfire'	2" Cal.	FAC
		51	<i>Platanus occidentalis</i>	2" Cal.	FACW
		3	<i>Quercus alba</i>	4' - 6' Ht.	FACW
		1	<i>Quercus bicolor</i>	2" Cal.	FACW
		11	<i>Quercus bicolor</i>	4' - 6' Ht.	FACW
		1	<i>Quercus coccinea</i>	2" Cal.	FACW
		8	<i>Quercus ellipsoidalis</i>	4' - 6' Ht.	FACU
		1	<i>Quercus imbricaria</i>	2" Cal.	FACW
		5	<i>Quercus michauxii</i>	4' - 6' Ht.	UPL
		3	<i>Quercus montana</i>	4' - 6' Ht.	FACU
		2	<i>Quercus muhlenbergii</i>	2" Cal.	FACW
		4	<i>Quercus palustris</i>	4' - 6' Ht.	FACW
		9	<i>Quercus phellos</i>	4' - 6' Ht.	FACW
		1	<i>Quercus rubra</i>	2" Cal.	FACU
		1	<i>Quercus rubra</i>	4' - 6' Ht.	FACU
		7	<i>Quercus shumardii</i>	4' - 6' Ht.	FACW
		8	<i>Rhus typhina</i>	6' - 8' Ht.	FACW
		4	<i>Salix nigra</i>	6' - 8' Ht.	OBL
		41	<i>Salix sericea</i>	4' - 6' Ht.	OBL
		3	<i>Sambucus canadensis</i>	5 gal.	OBL
		30	<i>Sambucus canadensis</i>	6' - 8' Ht.	FACU
		7	<i>Tsuga canadensis</i>	6' - 8' Ht.	FACU

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Sheet Title
Wetland 3 - Tree List
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Wetland 4 (high marsh)

Seed mix

Area in acres:	0.11	Percent by weight	Quantity (lb)	Quantity (oz)	Species	Size	Wetland Indicator
Area in sq ft:	4,963	17.04%	0.17	2.75	<i>Blotus cernua</i>	Seed	OBL
Total seeds per sq ft:	150	1.92%	0.02	0.31	<i>Calamagrostis canadensis</i>	Seed	OBL
Total seed mix (lb):	1.01	7.69%	0.08	1.24	<i>Carex comosa</i>	Seed	OBL
Seed mix per acre (lb):	8.85	5.68%	0.06	0.92	<i>Carex crinita</i>	Seed	OBL
		15.36%	0.16	2.48	<i>Carex lasiocarpus</i>	Seed	OBL
		14.77%	0.15	2.38	<i>Carex lurida</i>	Seed	OBL
		8.20%	0.08	1.32	<i>Carex stricta</i>	Seed	OBL
		0.33%	0.00	0.05	<i>Juncus effusus</i>	Seed	OBL
		0.13%	0.00	0.02	<i>Juncus tenuis</i>	Seed	FAC
		28.40%	0.29	4.58	<i>Schoenoplectus americanus</i>	Seed	OBL
		0.33%	0.00	0.05	<i>Scirpus atrovirens</i>	Seed	OBL
		0.14%	0.00	0.02	<i>Scirpus cyperinus</i>	Seed	OBL
		100.00%	1.01	16.13			

Landscape plugs

Plug spacing (in o.c., triangular): 24
Total plugs per zone: 1,439

Quantity (each)	Species	Size	Wetland Indicator
250	<i>Carex emoryi</i>	Plug	OBL
350	<i>Carex lasiocarpus</i>	Plug	OBL
489	<i>Schoenoplectus americanus</i>	Plug	OBL
350	<i>Typha latifolia</i>	Plug	OBL
1,439			

Trees and Shrubs

Trees per acre ratio 1,088

Quantity (each)	Species	Size	Wetland Indicator
9	<i>Alnus serrulata</i>	4' - 6' Ht.	OBL
50	<i>Cephalanthus occidentalis</i>	4' - 6' Ht.	OBL
4	<i>Chionanthus virginicus</i>	6' - 8' Ht.	FAC
43	<i>Cornus sericea</i>	3 gal.	FACW
14	<i>Salix discolor</i>	3 gal.	OBL
1	<i>Salix nigra</i>	6' - 8' Ht.	OBL
2	<i>Salix sericea</i>	4' - 6' Ht.	OBL
1	<i>Sambucus canadensis</i>	5 gal.	OBL

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May, 2025
D006428



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Client/Project
NYS OPRHP Palisades Region
Rehabilitation of Lake Sebago
within Harriman State Park

Project Location
Harriman State Park
488 Seven Lakes Drive
Pomona, NY 10970

Sheet Title
Wetland 4 - Plant List
Figure No.
033.00

Wetland 5 (low marsh)

Plugs

Area in acres: 0.19
Area in sq ft: 8,260
Total plugs per sq ft: 18
Total plugs per zone: 4,213

Quantity (each)	Species	Size	Wetland Indicator
250	<i>Calamagrostis canadensis</i>	Plug	OBL
213	<i>Carex stricta</i>	Plug	OBL
500	<i>Peltandra virginica</i>	Plug	OBL
700	<i>Pontederia cordata</i>	Plug	OBL
400	<i>Sagittaria latifolia</i>	Plug	OBL
350	<i>Schoenoplectus acutus</i>	Plug	OBL
350	<i>Schoenoplectus americanus</i>	Plug	OBL
550	<i>Schoenoplectus tabernaemontani</i>	Plug	OBL
400	<i>Scirpus atrovirens</i>	Plug	OBL
500	<i>Typha latifolia</i>	Plug	OBL
4,213			

Under bridge (mesic)

Landscape plugs

Area in acres: 0.05
Area in sq ft: 2,143
Plug spacing (in o.c., triangular): 18
Total plugs per zone: 1,093

Quantity (each)	Species	Size	Wetland Indicator
200	<i>Carex amphibola</i>	LP	FAC
200	<i>Carex pensylvanica</i>	LP	UPL
150	<i>Demissaedia punctilobula</i>	LP/BR	FACW
400	<i>Packera aurea</i>	LP	FACW
143	<i>Thelypteris noveboracensis</i>	LP/BR	FAC
1,093			

Under bridge (dry)

Landscape plugs

Area in acres: 0.03
Area in sq ft: 1,371
Plug spacing (in o.c., triangular): 18
Total plugs per zone: 699

Quantity (each)	Species	Size	Wetland Indicator
150	<i>Ageratina altissima</i>	LP	FACU
349	<i>Carex pensylvanica</i>	LP	UPL
200	<i>Demissaedia punctilobula</i>	LP/BR	UPL
699			

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Sheet Title
Wetland and Bridge - Plant List
Figure No.
034.00

Upland (dry)

Seed mix

Area in acres:	1.19	Percent by weight	Quantity (lb)	Quantity (oz)	Species	Size
Area in sq ft:	51,976	0.32%	0.13	2.08	<i>Ageratina altissima</i>	Seed
Total seeds per sq ft:	150	0.24%	0.10	1.56	<i>Agrostis perennans</i>	FACU
Total seed mix (lb):	40.64	2.40%	0.97	15.59	<i>Andropogon virginicus</i>	Seed
Seed mix per acre (lb):	34.06	2.89%	1.18	18.82	<i>Carex brevior</i>	FAC
		3.36%	1.36	21.83	<i>Carex molesta</i>	Seed
		25.24%	10.26	164.13	<i>Elymus canadensis</i>	FACU
		7.67%	3.12	49.89	<i>Elymus hystrix</i>	Seed
		39.42%	16.02	256.29	<i>Elymus virginicus</i>	FACU
		7.83%	3.18	50.91	<i>Festuca rubra</i>	Seed
		4.11%	1.67	26.73	<i>Panicum clandestinum</i>	FACW
		2.39%	0.97	15.53	<i>Schizachyrium scoparium</i>	Seed
		4.13%	1.68	26.83	<i>Tridens flavus</i>	FACU
		100.00%	40.64	650.20		ULP

Cover crop

Quantity (lb)	Seed rate (lb/ac)	Species	Size
14.32	12	<i>Lolium multiflorum</i>	Seed

Landscape plugs

Plug spacing (in o.c., triangular):	48	Quantity (each)	Species	Size	Wetland Indicator
Total plugs per zone:	3,638	1,000	<i>Carex pensylvanica</i>	LP	UPL
		800	<i>Demissaedia punctilobula</i>	LP/BR	FACW
		1,038	<i>Packeria aurea</i>	LP	FAC
		800	<i>Thelypteris noveboracensis</i>	LP/BR	FAC
		3,638			

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Sheet Title
Upland - Plant List
Figure No.
035.00



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Sheet Title
Upland - Tree List
Figure No.
036.00

ORIGINAL SHEET - ANSI A

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Upland (dry)

Trees and Shrubs

Trees per acre ratio	131	Quantity (each)	Species	Size	Wetland Indicator
		9	Acer rubrum	2" Cal.	FAC
		4	Acer rubrum	4' - 6' Ht.	FAC
		6	Betula alleghaniensis	4' - 6' Ht.	FAC
		8	Betula lenta	5' - 6' Ht.	FACU
		3	Carya ovata	5' - 6' Ht.	FACU
		2	Chionanthus virginicus	6' - 8' Ht.	FAC
		4	Hamamelis virginiana	6' - 8' Ht.	FACU
		12	Liriodendron tulipifera	4' - 6' Ht.	FACU
		7	Nyssa sylvatica	4' - 6' Ht.	FAC
		6	Nyssa sylvatica 'Wildfire'	2" Cal.	FAC
		3	Quercus alba	2" Cal.	FACU
		5	Quercus alba	4' - 6' Ht.	FACU
		9	Quercus coccinea	2" Cal.	
		4	Quercus coccinea	4' - 6' Ht.	
		1	Quercus ellipsoidalis	2" Cal.	
		1	Quercus ellipsoidalis	4' - 6' Ht.	FACU
		2	Quercus imbricaria	2" Cal.	UPL
		6	Quercus montana	4' - 6' Ht.	FACU
		2	Quercus rubra	2" Cal.	FACU
		10	Quercus rubra	4' - 6' Ht.	FACU
		3	Quercus shumardii	2" Cal.	FACW
		8	Quercus velutina	2" Cal.	
		2	Quercus velutina	4' - 6' Ht.	
		22	Rhus typhina	6' - 8' Ht.	
		1	Salix nigra	6' - 8' Ht.	OBL
		4	Sassafras albidum	6' - 8' Ht.	FACU
		12	Tsuga canadensis	6' - 8' Ht.	FACU