



AECOM  
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Grand Rapids, MI 49512

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August 22, 2014

Federal Consistency Coordinator  
Illinois Coastal Management Program  
Illinois Department of Natural Resources  
160 N. LaSalle, Ste. 700  
Chicago, Illinois 60601

**Subject: Federal Notice of Consistency Determination, U.S. Coast Guard Station Wilmette Harbor, Proposed Dredging of Boat Basin**

Dear Federal Consistency Coordinator:

On behalf of the United States Coast Guard (USCG), AECOM Technical Services, Inc. (AECOM) is submitting this notice of Federal Consistency with the Coastal Zone Management Act (CZMA), 16 USC 1456, applicable regulations (15 *Code of Federal Regulations* 930) and the Illinois Coastal Management Program (ICMP) for proposed dredging of the harbor and bulkhead rehabilitation at the USCG Station Wilmette Harbor in Wilmette, Illinois. The ICMP and USCG guidelines (*Tools for Decision-Making: Environmental Considerations*, USCG Office of Civil Engineering) specify that the USCG determines if a USCG project is consistent with enforceable provisions of the ICMP.

The proposed project is in the Illinois Coastal Zone, will have no coastal effects to natural or cultural resources, and requires federal permits and state 401 Water Quality Certification. The proposed project is a federal activity identified in the ICMP as being in the national interest. The project involves improvements to water transportation, ports and navigation facilities. The USCG is part of the Department of Homeland Security, so the project is in the national interest because it will support the USCG's coastal security mission.

This letter provides supporting information for this Notice of Consistency, including:

- Project location and location map;
- Purpose of the project;
- Start date and duration of the project;
- Description of the project;
- Project review related to environmental and cultural resources; and
- Contact information.

## Location

Station Wilmette Harbor is located at 10 Harbor Drive in the southeast corner of Gillson Park at the origin of the North Shore Channel in Section 35, Township 42 North, Range 13 East within the Village of Wilmette, Cook County, Illinois. **Attachment A** shows the project location. **Attachment B** is an aerial photograph of the general area. The harbor is continuous with Lake Michigan, but is separated from the North Shore Channel by the Wilmette Pumping Station, which normally pumps water from Lake Michigan to the North Shore Channel.

Station Wilmette Harbor consists of an onshore two-story brick multi-purpose building, 10,973 square feet in size, with duty rooms and attached boat storage building. The project site includes a lawn shed, waste oil shed, aboveground fuel pads, communications tower, access roads and parking areas, a launchway for USCG vessels, boat basin, four permanent docks, and floating docks. The boat basin is located in Wilmette Harbor with concrete-capped bulkheads supported by timber cribs line the shore. The bulkheads and the launchway are in poor condition. Adjacent and to the east of the station is the Marshall Mansion, which houses the Sheridan Shores Yacht Club. **Figure 2** is an aerial photograph of the Station. Photographs of Station Wilmette Harbor can be found in **Attachment C**.

## Purpose

USCG Station Wilmette Harbor's primary responsibility is Search and Rescue. The Station completes approximately 90 to 100 Search and Rescue cases each year. The Station's other responsibilities include maritime law enforcement, boating safety and security for special marine events and Presidential security zones. The Station's area of responsibility covers Lake Michigan from Great Lakes, IL to downtown Chicago, including half-way across the Lake.

The purpose of the proposed project is to rehabilitate or replace the deteriorated bulkheads and dredge the boat basin to a required depth below the International Great Lakes Datum (IGLD) at USCG Station Wilmette Harbor in order for the Unit to transit, moor and be able to execute their operational missions without the encumbrances of shoaling or reduced lake levels they currently are experiencing.

## Project Start Date and Duration

The project will start in 2015; the exact start date has not been determined. The work will be done in the fall, winter or spring to minimize impact on recreational boating in the harbor. The site work will be completed in two phases: the first phase involves the dredging and bulkeahd work, and is expected to be completed in approximately four months; and the second phase involves the launchway work and is expected to be completed in approximately three months. This project requires a Section 404 Clean Water Act permit and a Section 401 Water Quality Certification before work can begin.

## Description of the Project

The project includes:

- Dredging the USCG boat basin to 8 feet below LWD with a one foot over dredge. LWD for Lake Michigan is elevation 577.5 IGLD85. Therefore, dredging is to proceed to elevation 568.5. Approximately 1,200 cubic yards of sediment will be dredged from the USCG boat basin and Wilmette Harbor.

- Remove approximately 140 feet of concrete main bulkhead and paving adjacent to the Station and replace it with steel sheet pile.
- Rehabilitation of existing steel sheet piling launchway bulkhead with replacement of certain timber members and remove upper portion of the existing steel sheet piling and timber soldier piles, along with the existing timber cap, waler and fender near the top of the wall and replace with steel sheet pile.
- Remove existing launchway timber decking, framing members and decayed upper portion of each timber support pile and construct a reinforced concrete slab-on-grade on compacted, granular fill.

Drawings of the area and depth of the proposed dredging are in **Attachment D**.

Dredging will be done using equipment operated from shore or from a barge. The dredged material will be transported by truck if dredging is done from shore or by both barge and truck if dredging is done from a barge. Dredged material will be disposed of at Waste Management's Countryside Landfill (Lake County). Demolition debris from the bulkhead rehabilitation will also be disposed of at Countryside Landfill. Some components of the bulkheads have lead-based paint (defined by the US EPA as a lead concentration of 5,000 parts per million or more). The components with lead-based paint will be removed and disposed properly and Countryside Landfill or recycling facility, if acceptable.

## Project Review

Physical Environment: Physical changes to the environment are limited to deepening of the harbor, rehabilitation of the existing shoreline and launchway bulkheads and rehabilitation of the launchway.

Coastal Erosion and Flooding: The dredging project will not affect coastal erosion or flooding. Rehabilitation of the bulkheads may prevent future erosion, but will not affect flooding.

Natural Environment: The project will not affect the terrestrial environment because material will be disposed of at an existing licensed landfill (or appropriate facility for components with lead-based paint). The Station Wilmette Harbor has been previously dredged, so natural plant communities will not be affected. The Station itself is an entirely developed area that is already paved or supports structures, and vegetation is limited to frequently mowed grass or conventional landscaping.

On behalf of the USCG, AECOM reviewed the U.S. Fish and Wildlife Service (USFWS) Section 7 technical assistance website ([http://www.fws.gov/Midwest/angered/section\\_7/index.html](http://www.fws.gov/Midwest/angered/section_7/index.html)) for federally listed threatened and endangered species. The following nine species are listed as present in Cook County: Northern long-eared bat (*Myotis septentrionalis*); Eastern massasauga (*Sistrurus catenatus*); Piping plover (*Charadrius melodus*); Hine's emerald dragonfly (*Somatochlora hineana*); Rattlesnake-master borer moth (*Papaipema eryngii*); Eastern prairie fringed orchid (*Platanthera leucophaea*); Leafy-prairie clover (*Dalea foliosa*); Mead's milkweed (*Asclepias meadii*); and Prairie-bush clover (*Lespedeza leptostachya*).

The Wilmette Harbor Station and surrounding areas were inspected by an environmental scientist from AECOM on November 18, 2013. At that time, no habitat was found for any of the species listed above at the Station. Potential habitat for piping plover was present near the Station at the sandy beach habitat along the shoreline of Lake Michigan. The site inspection did not identify any piping plovers. On the north side of the North Channel habitat was present, however this portion of the

beach is used as a dog beach by the community and it is unlikely that any piping plovers would be found on the north side.

The USCG determined that the proposed dredging project may affect but is unlikely to adversely affect the piping plover. This determination was made on the basis that barges may be used for staging for the dredging operations and for transfer of the sediments to the final disposal site. If barge traffic occurs near the beach located on the shore of Lake Michigan south of the North Channel, the potential for the noise associated with this barge traffic could result in piping plovers avoiding the beach.

The USCG requested concurrence with its effect determinations from USFWS on December 6, 2013. The USFWS stated in a December 20, 2013 telephone conversation, that the USCG would be justified in making a no-effect determination for the piping plover. **Attachment E** provides documentation of consultation with USFWS. The USCG subsequently made a no-effect determination regarding federally listed threatened and endangered species; this determination is also in **Attachment E**.

***Environmental Contamination:*** The sediments to be dredged will be sampled and analyzed, and this information will be included in the permit applications. The dredged material will be managed and disposed of as required by applicable regulations and no impacts are expected. Some components of the bulkheads have lead-based paint. These components will be managed appropriately and disposed of at an appropriate facility.

***Cultural Resources:*** The proposed dredging activities will be conducted in a manner such that there will be no disturbance to recorded archaeological sites and historic standing structures. Subsurface, terrestrial archaeological deposits, if present, will be avoided by staging from the existing parking lot, boat launch, and mooring pier or from a barge. Therefore, the USCG has determined "No Historic Properties Affected." We are providing separate documentation regarding compliance with Section 106 of the National Historic Preservation Act to Ms. Anne Haaker, Deputy State Historic Preservation Officer, Illinois Historic Preservation Agency.

## **Contact Information**

The USCG contact for this project is:

Charlie Maricic  
US Coast Guard  
1240 East Ninth Street  
Cleveland, OH 44199-2060  
(216) 902-6304

## **Conclusion**

On behalf of the USCG, AECOM reviewed the potential impacts of dredging the boat basin at Station Wilmette Harbor and rehabilitation of the main bulkhead and launchway. AECOM concluded that the proposed activity is consistent with the ICMP and will be conducted in a manner consistent with such ICMP's policies. We request your written concurrence with this determination. We understand your concurrence will be conditional on the project obtaining and complying with the required permits. We would appreciate receipt of your written concurrence within approximately four weeks of your receipt of this letter; this will help us maintain the overall schedule for this project.

Thank you for your consideration. If you need additional information or have questions, please contact Glenn Hendrix at (616) 940-4406 ([glenn.hendrix@aecom.com](mailto:glenn.hendrix@aecom.com)) or Cheryl Nash at (312) 373-6808 (Cheryl.Nash@aecom.com).

Sincerely,

  
Glenn Hendrix  
Senior Scientist

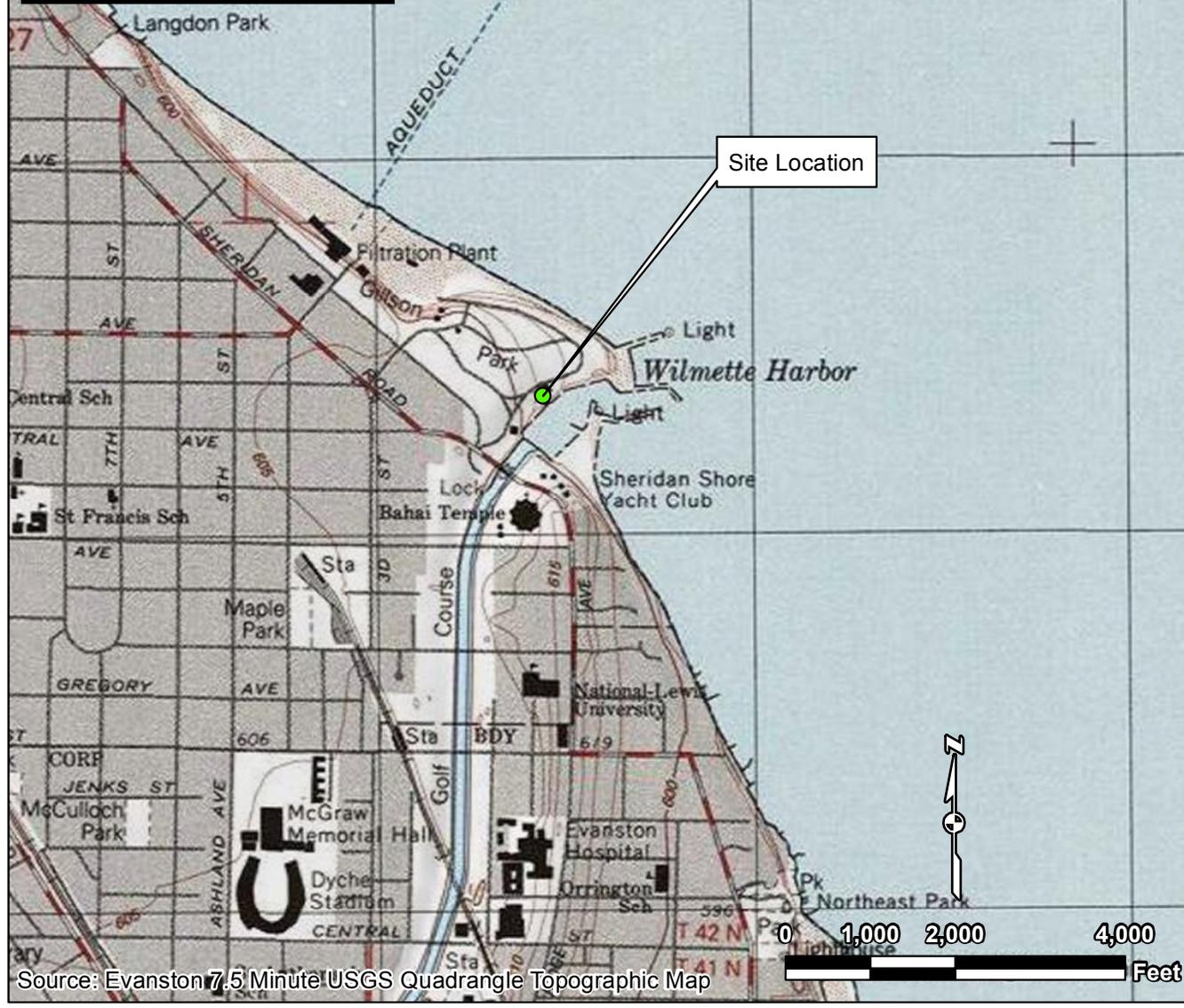
  
Cheryl Nash  
Senior Project Scientist

Attachment A – Dredge Site Location Map  
Attachment B – Dredge Site Aerial Photographs  
Attachment C – Dredge Site Ground Level Photographs  
Attachment D – 35% Design Plans  
Attachment E – USFWS Documentation

Cc: Michelle L. Freimund, AECOM Technical Services, Inc.  
Charles Maricic, USCG Civil Engineering Unit Cleveland

**ATTACHMENT (A)**  
**DREDGE SITE - LOCATION MAP**

Last saved by: MUELLERLEILEK(2013-09-27)  
Filename: J:\Projects and Proposals\US Coast Guard\60303281\_Dredging at Various D9 Units\_IL-MI-WI\900\_WorkingDocs-CAD\GIS\Wilmette.mxd



Source: Evanston 7.5 Minute USGS Quadrangle Topographic Map

US Coast Guard  
10 Harbor Drive  
Wilmette, Illinois  
Project No.: 60303281 Date: 9/27/2013

Site Location Map  
Station Wilmette Harbor  
Cook County

**AECOM**  
Figure 1

**ATTACHMENT (B)**  
**DREDGE SITE – AERIAL PHOTOGRAPH**



US Coast Guard  
Station Wilmette Harbor  
Cook County, Illinois

Dredge Site –  
Aerial Photograph

Attachment B

**ATTACHMENT (C)**  
**DREDGE SITE – GROUND-LEVEL PHOTOGRAPHS**

**Client Name:**

USCG

**Site Location:**

USCG Station Wilmette Harbor

**Project No.**

2270838

**Photo No.**

**1**

**Date:**

11/18/13

**Description:**

Rear of Main multi-purpose building building built 1931

Looking North



**Photo No.**

**2**

**Date:**

11/18/13

**Description:**

Rear of USCG multi-use building, taken from USCG pier. Two garages with bottom ramp to Harbor. building built 1931

Looking North East



**Client Name:**

USCG

**Site Location:**

USCG Station Wilmette Harbor

**Project No.**

2270838

**Photo No.****3****Date:**

11/18/13

**Description:**

Rear of USCG multi-use building built 1931

Looking North

**Photo No.****4****Date:**

11/18/13

**Description:**

Full view of front of USCG multi-use building built 1931

Looking South



**Client Name:**  
USCG

**Site Location:**  
USCG Station Wilmette Harbor

**Project No.**  
2270838

**Photo No.**  
**5**

**Date:**  
11/18/13

**Description:**

Rear of USCG with  
Moorings and Boat  
Ramps

Looking North East



**Photo No.**  
**6**

**Date:**  
11/18/13

**Description:**

Lawn, dry dock of one  
of USCG boats and  
boat ramp to multi-  
purpose building

Looking Northwest



<b>Client Name:</b> USCG	<b>Site Location:</b> USCG Station Wilmette Harbor	<b>Project No.</b> 2270838
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<b>Photo No.</b> <b>7</b>	<b>Date:</b> 11/18/13
<b>Description:</b> USCG Fueling pad Looking Northeast	



<b>Photo No.</b> <b>8</b>	<b>Date:</b> 11/18/13
<b>Description:</b> Moorings and floating dock Looking Northwest	



<b>Client Name:</b> USCG	<b>Site Location:</b> USCG Station Wilmette Harbor	<b>Project No.</b> 2270838
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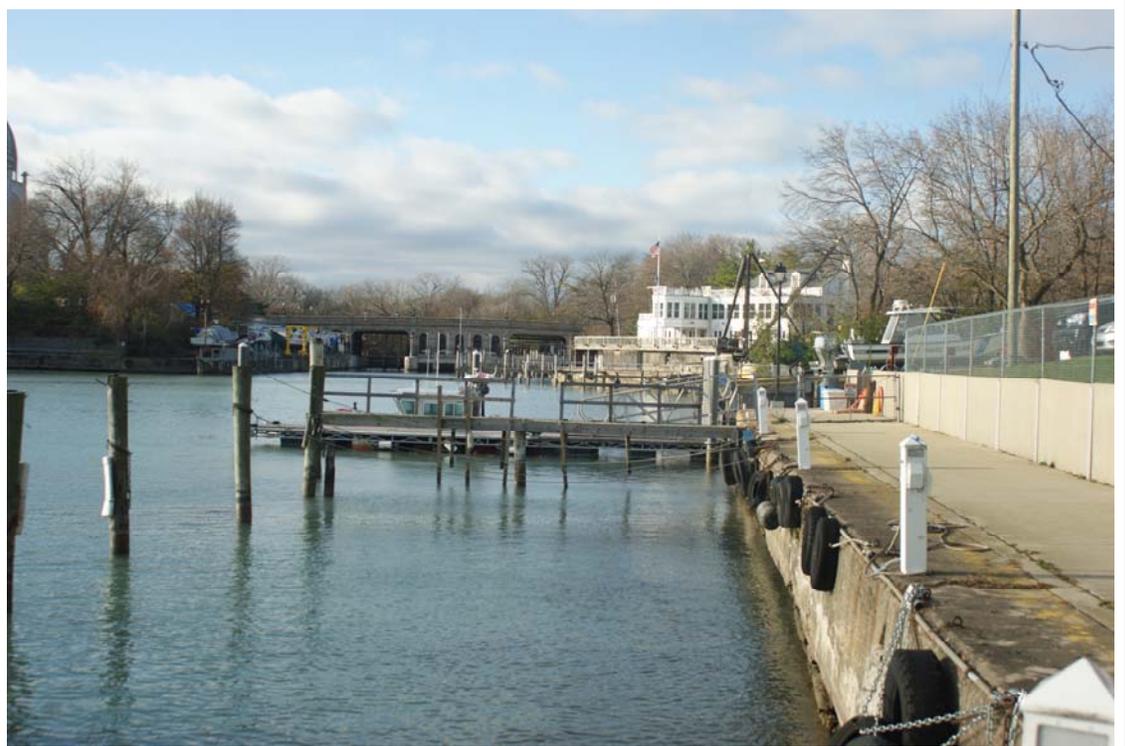
<b>Photo No.</b> <b>9</b>	<b>Date:</b> 11/18/13
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**Description:**  
Moorings taken from  
USCG pier  
  
Looking East



<b>Photo No.</b> <b>10</b>	<b>Date:</b> 11/18/13
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**Description:**  
Moorings and overview  
of Harbor  
  
Looking West





# ATTACHMENT C DREDGE SITE – Ground Level Photographs

<b>Client Name:</b> USCG		<b>Site Location:</b> USCG Station Wilmette Harbor	<b>Project No.</b> 2270838
<b>Photo No.</b> <b>11</b>	<b>Date:</b> 11/18/13		
<b>Description:</b> View of Harbor from adjacent beach showing complete width of inlet to the Harbor for barges  Looking West			

<b>Photo No.</b> <b>12</b>	<b>Date:</b> 11/18/13	
<b>Description:</b> Front of small building on USCG grounds built 1980  Looking East		

**Client Name:**

USCG

**Site Location:**

USCG Station Wilmette Harbor

**Project No.**

2270838

**Photo No.**

**13**

**Date:**

11/18/13

**Description:**

Rear of small building on USCG grounds, built 1980

Looking South West



**Photo No.**

**14**

**Date:**

11/18/13

**Description:**

Shed and electrical power boxes on USCG property

Looking Southwest



<b>Client Name:</b> USCG	<b>Site Location:</b> USCG Station Wilmette Harbor	<b>Project No.</b> 2270838
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<b>Photo No.</b> <b>15</b>	<b>Date:</b> 11/18/13
<b>Description:</b>  Close-up of communication tower and small building on USCG grounds  Looking North West	



<b>Photo No.</b> <b>16</b>	<b>Date:</b> 11/18/13
<b>Description:</b>  Viewpoint of Harbor and Sheridan Shores Yacht Club taken from adjacent beach.  Looking West	



<b>Client Name:</b> USCG	<b>Site Location:</b> USCG Station Wilmette Harbor	<b>Project No.</b> 2270838
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<b>Photo No.</b> <b>17</b>	<b>Date:</b> 11/18/13
-------------------------------	--------------------------

**Description:**

View of adjacent Property

Waterside of Sheridan Shores Yacht Club, built 1929

20 Harbor Drive  
Wilmette, IL

Looking Northwest



<b>Photo No.</b> <b>18</b>	<b>Date:</b> 11/18/13
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**Description:**

Side view of Sheridan Shores Yacht Club built 1929

20 Harbor Drive  
Wilmette, IL

Looking East



**Client Name:**

USCG

**Site Location:**

USCG Station Wilmette Harbor

**Project No.**

2270838

**Photo No.**  
**19****Date:**  
11/18/13**Description:**

Landside view of  
Sheridan Shores Yacht  
Club  
built 1929

20 Harbor Drive  
Wilmette IL

Looking South

**Photo No.**  
**20****Date:**  
11/18/13**Description:**

Sheridan Shores Yacht  
Club Shed boat fueling  
station

Adjacent to USCG,  
sharing the same  
harbor

Looking Northeast



**ATTACHMENT (D)**  
**35% DESIGN PLANS**

CONSULTANTS

**AECOM**  
 1035 Kepler Drive  
 Green Bay, WI 54311

U. S. COAST GUARD  
 CIVIL ENGINEERING UNIT  
 CLEVELAND



USCG CEU CLEVELAND  
 1240 EAST 9TH STREET  
 CLEVELAND, OH 44199-2060

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO:  
 CAD FILE NAME: CB211C01  
 DESIGNED BY: RAD  
 DRAWN BY: RAD  
 EDITED BY:  
 CHECKED BY: DAA

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE  
**REPLACE BULKHEAD  
 CG STATION WILMETTE HARBOR  
 WILMETTE IL**

**SITE PLAN**

REVIEWED BY: R. A. PIPAK	REVIEWED BY: B.VRANKAR	REVIEWED BY: G. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P.R. CARROLL, CDR APPROVING OFFICER	DATE
----------------------------------------	------

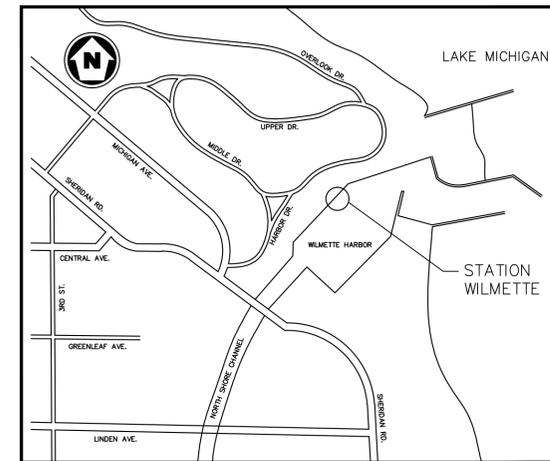
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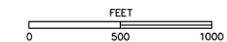
DISCIPLINE/SHT NO C-01	SHEET 1 OF 12
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DRAWING INDEX	
SHEET	TITLE
C-01	SITE PLAN
C-02	EXISTING CONDITIONS SURVEY
C-03	DEMOLITION PLAN
C-04	EAST AND WEST BULKHEAD SECTIONS-DEMOLITION
C-05	TYPICAL SECTIONS-LAUNCHWAY DEMOLITION
C-06	PROPOSED MAIN BULKHEAD AND LAUNCHWAY IMPROVEMENTS
C-07	EAST AND WEST BULKHEAD SECTIONS-CONSTRUCTION
C-08	TYPICAL SECTIONS-LAUNCHWAY CONSTRUCTION
C-09	TYPICAL SECTIONS-LAUNCHWAY EXTENSION
C-10	HYDROGRAPHIC SURVEY
C-11	DREDGE PLAN
C-12	DREDGE CROSS SECTIONS

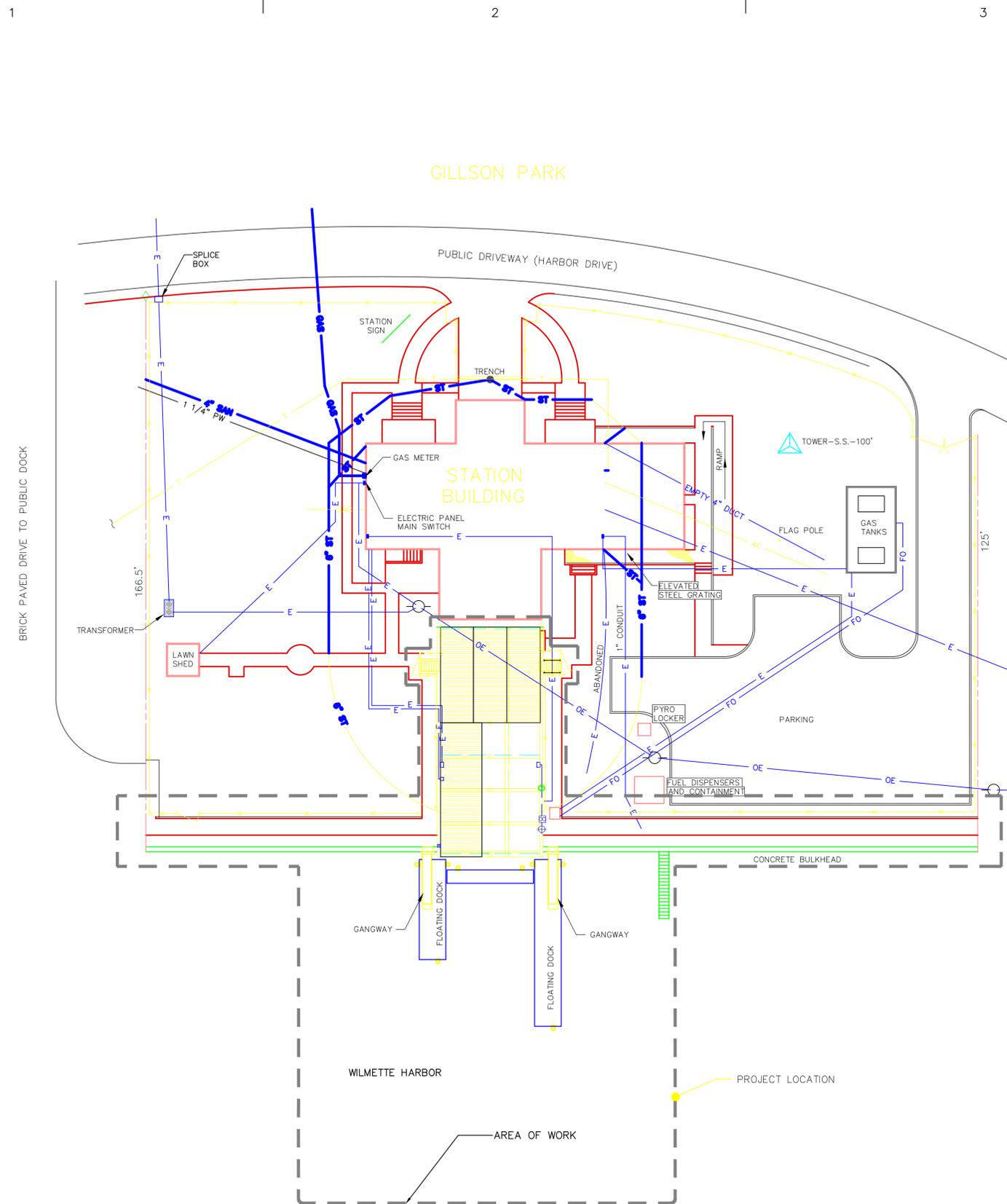


VICINITY MAP



LEGEND

LAN	Landscape	-----	1' Contour
⊙	Gas Meter	-----	5' Contour
F	Fiber Vault	—○—○—○—	Fence
⊞	Inlet	—GAS—	Underground Gas Line
⊕	Round Catch Basin	—ELEC—	Underground Electric Line
⊕	Hydrant	—OH—	Overhead Electric Line
●	Bollard/Post	—PHON—	Underground Telephone Line
MB	Mailbox	-----	Centerline Road
T	Sign	—PL—	Property Line
F	Flag Pole	~~~~~	Tree Line
AC	AC Unit	↓	Guy Wire
⊕	Telephone Manhole	⊞	Electrical Vault
⊞	Telephone Pedestal	⊞	Electrical Panel Board
▶	Decorative Light	⊞	USCG Shore-Tie
■	Power Pole	⊞	Deciduous Tree
■	Power Pedestal (Private)	⊞	Coniferous Tree
⊕	Bench Mark		
⊕	Soil Boring (2014)		
⊕	Light Pole		



- NOTES:**
- Site surveyed by AECOM on March 25-27, 2014.
  - Horizontal coordinates are referenced to Illinois State Plane County Coordinate System East Zone.
  - Elevations are referenced to the International Great Lake Datum of 1985 (IGLD85).
  - Underground utility lines shown here on are based on markings by JULIE per ticket number A0830644.
  - The contractor/owner is responsible for making his/her own determination as to the type and location of underground utilities that may be necessary to avoid damage thereto. Contractor/owner shall be responsible to contact JULIE prior to start of any construction.

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 CIVIL ENGINEERING UNIT  
 CLEVELAND



USCG CEU CLEVELAND  
 1240 EAST 9TH STREET  
 CLEVELAND, OH 44199-2060

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO:	
CAD FILE NAME: C8211C01	
DESIGNED BY: RAD	
DRAWN BY: RAD	
EDITED BY:	
CHECKED BY: DAA	

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE  
**REPLACE BULKHEAD  
 CG STATION WILMETTE HARBOR  
 WILMETTE IL**

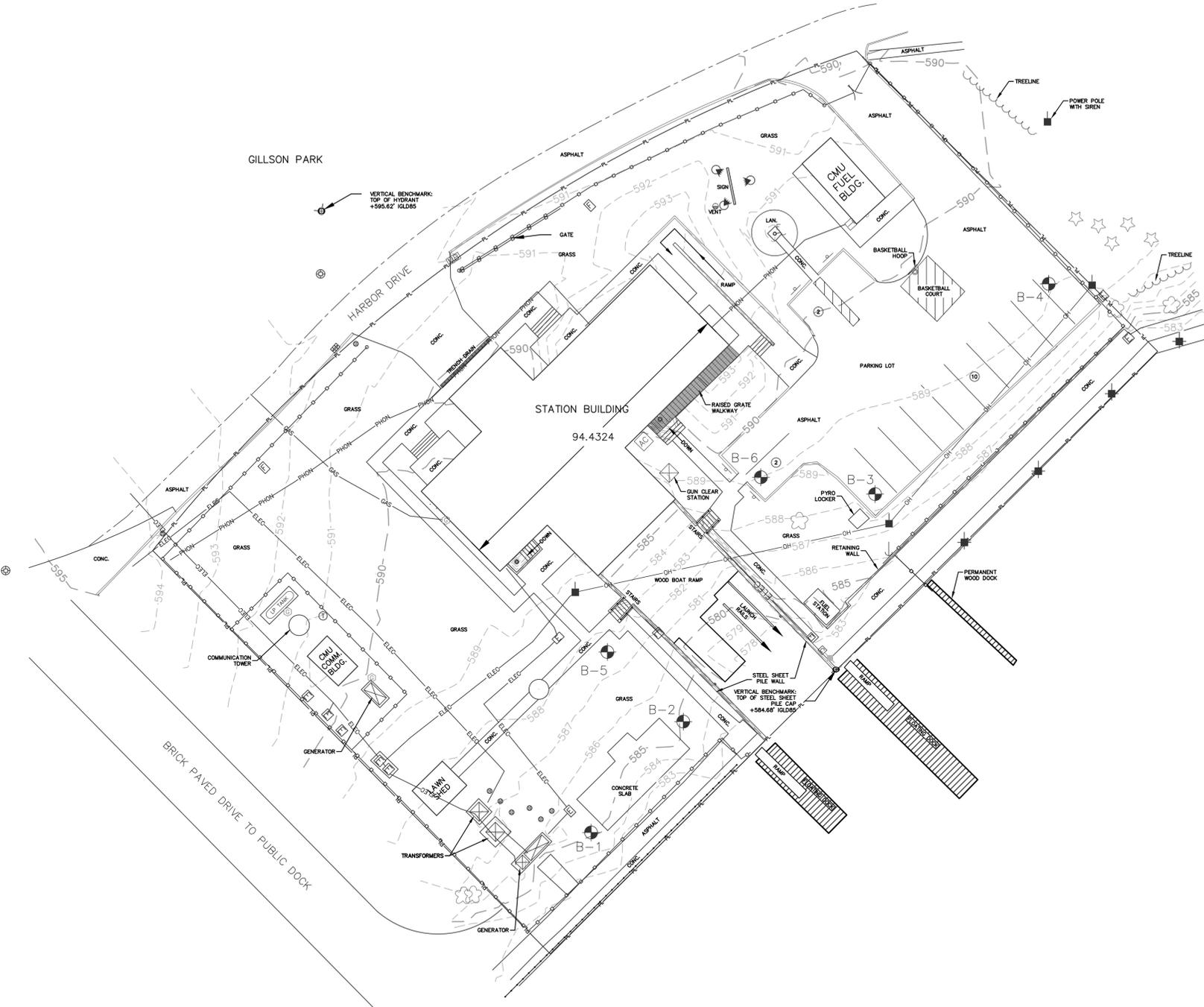
SITE PLAN  
 EXISTING CONDITIONS SURVEY

REVIEWED BY: R. A. PIPAK	REVIEWED BY: B.VRANKAR	REVIEWED BY: G. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P.R. CARROLL, CDR  
 APPROVING OFFICER

06/26/2014  
 DATE

PROJECT NUMBER <b>2270838</b>	DRAWING NUMBER <b>8243-D</b>
DISCIPLINE/SHT NO <b>C-02</b>	SHEET <b>2</b> OF <b>12</b>



LEGEND

- LAN Landscape
- Gas Meter
- Fiber Vault
- Inlet
- Round Catch Basin
- Hydrant
- Bollard/Post
- Mailbox
- Sign
- Flag Pole
- AC Unit
- Telephone Manhole
- Telephone Pedestal
- Decorative Light
- Power Pole
- Power Pedestal (Private)
- Bench Mark
- Soil Boring (2014)
- Light Pole
- 1' Contour
- 5' Contour
- Fence
- Underground Gas Line
- Underground Electric Line
- Overhead Electric Line
- Underground Telephone Line
- Centerline Road
- Property Line
- Tree Line
- Guy Wire
- Electrical Vault
- Electrical Panel Board
- USCG Shore-Tie
- Deciduous Tree
- Coniferous Tree

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 1035 Kepler Drive  
 Green Bay, WI 54311

U. S. COAST GUARD  
 CIVIL ENGINEERING UNIT  
 CLEVELAND



USCG CEU CLEVELAND  
 1240 EAST 9TH STREET  
 CLEVELAND, OH 44199-2060

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO:	60317892
CAD FILE NAME:	C8211C01
DESIGNED BY:	RAD
DRAWN BY:	RAD
EDITED BY:	
CHECKED BY:	DAA

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE  
**REPLACE BULKHEAD  
 CG STATION WILMETTE HARBOR  
 WILMETTE IL**

CIVIL  
**DEMOLITION PLAN**

REVIEWED BY:	REVIEWED BY:	REVIEWED BY:
R.A. PIPAK	B. VRANKAR	G. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P.R. CARROLL, CDR  
 APPROVING OFFICER

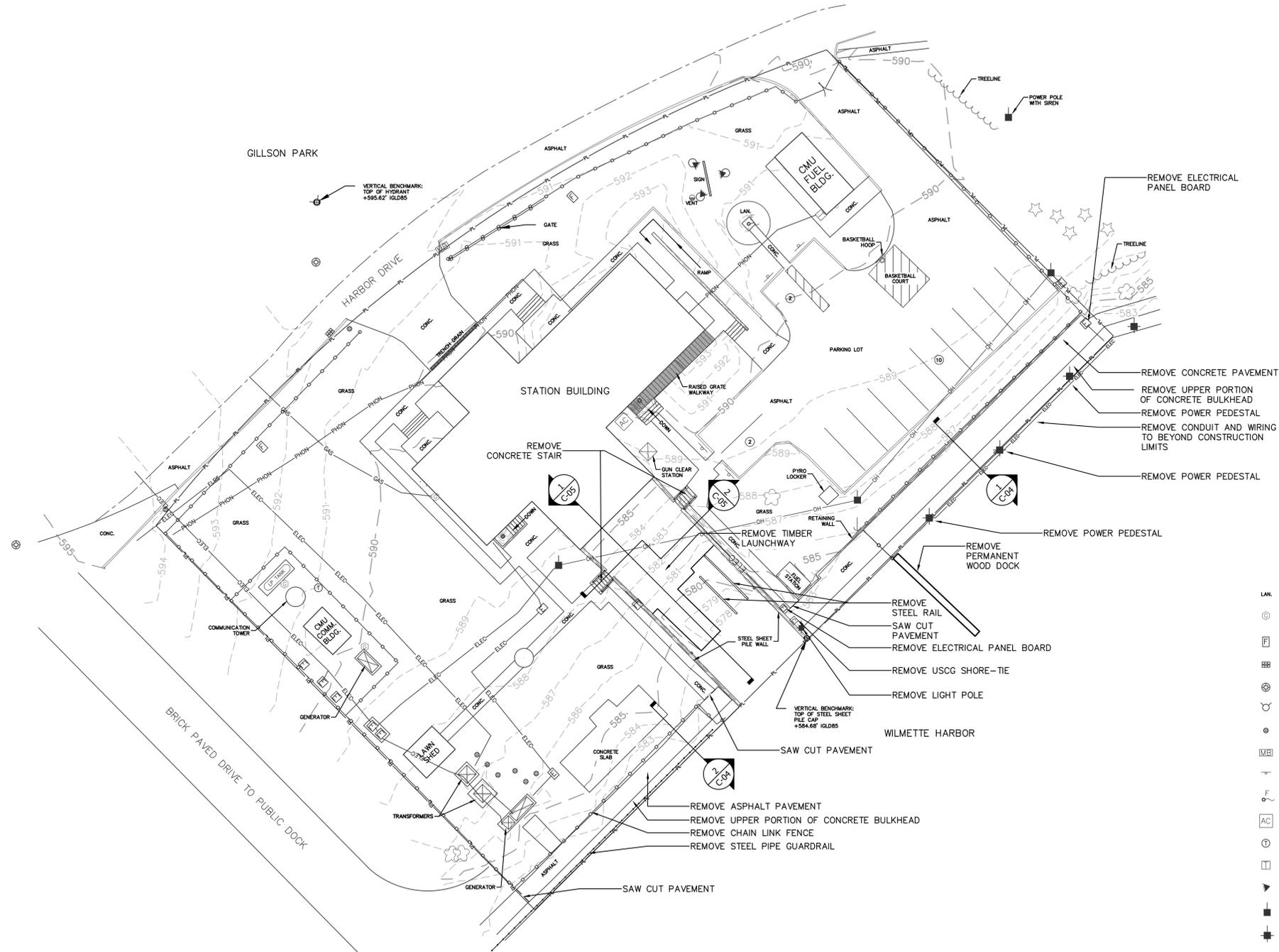
DATE

PROJECT NUMBER DRAWING NUMBER

2270838 8243-D

DISCIPLINE/SHT NO

C-03 SHEET 3 OF 12



**LEGEND**

LAN	Landscape	---	1' Contour
⊙	Gas Meter	---	5' Contour
F	Fiber Vault	—○—○—○—	Fence
⊞	Inlet	—GAS—	Underground Gas Line
⊙	Round Catch Basin	—ELEC—	Underground Electric Line
⊙	Hydrant	—OH—	Overhead Electric Line
⊙	Bollard/Post	—PHON—	Underground Telephone Line
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1

2

3

4

C

C

B

B

A

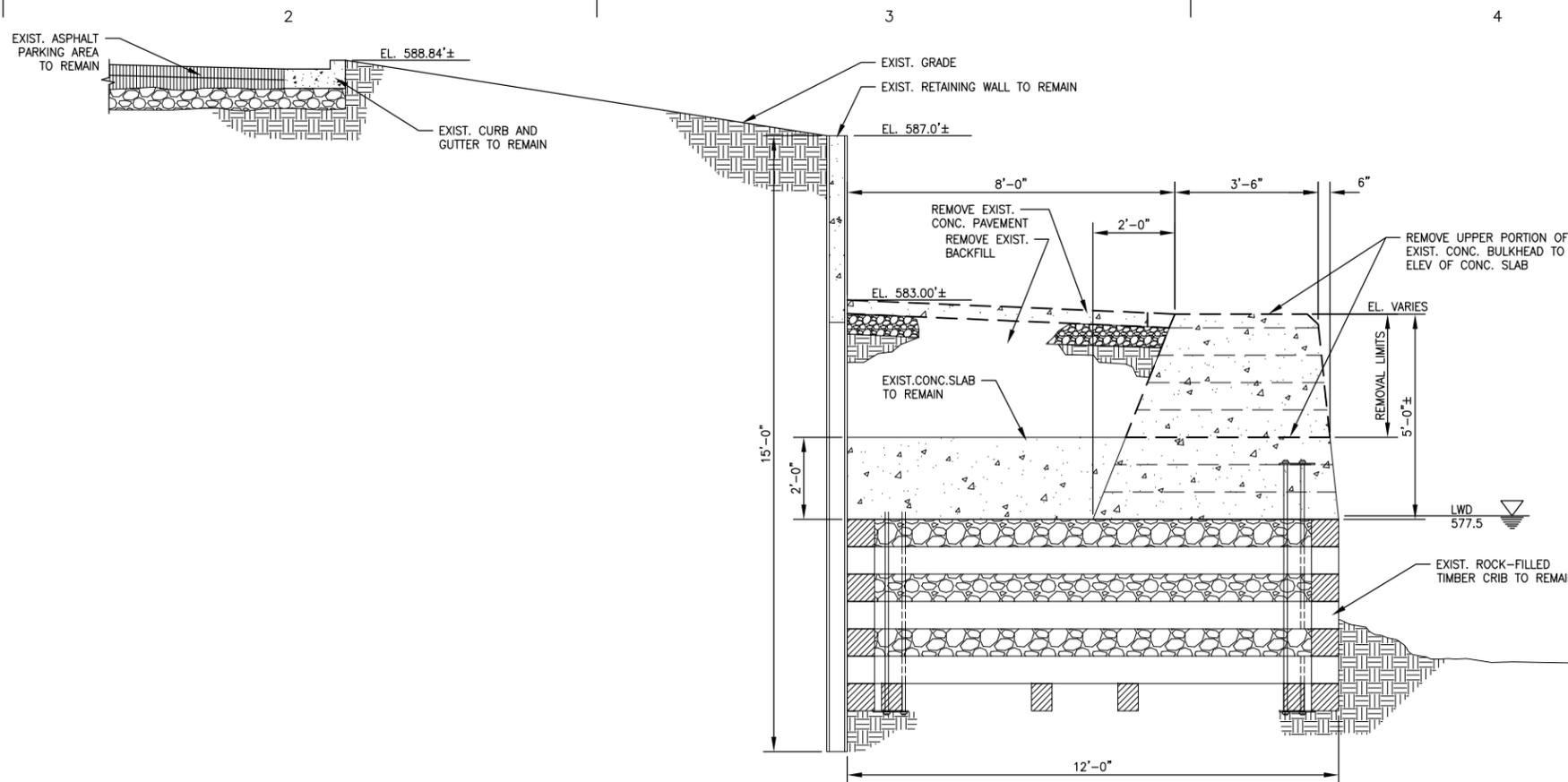
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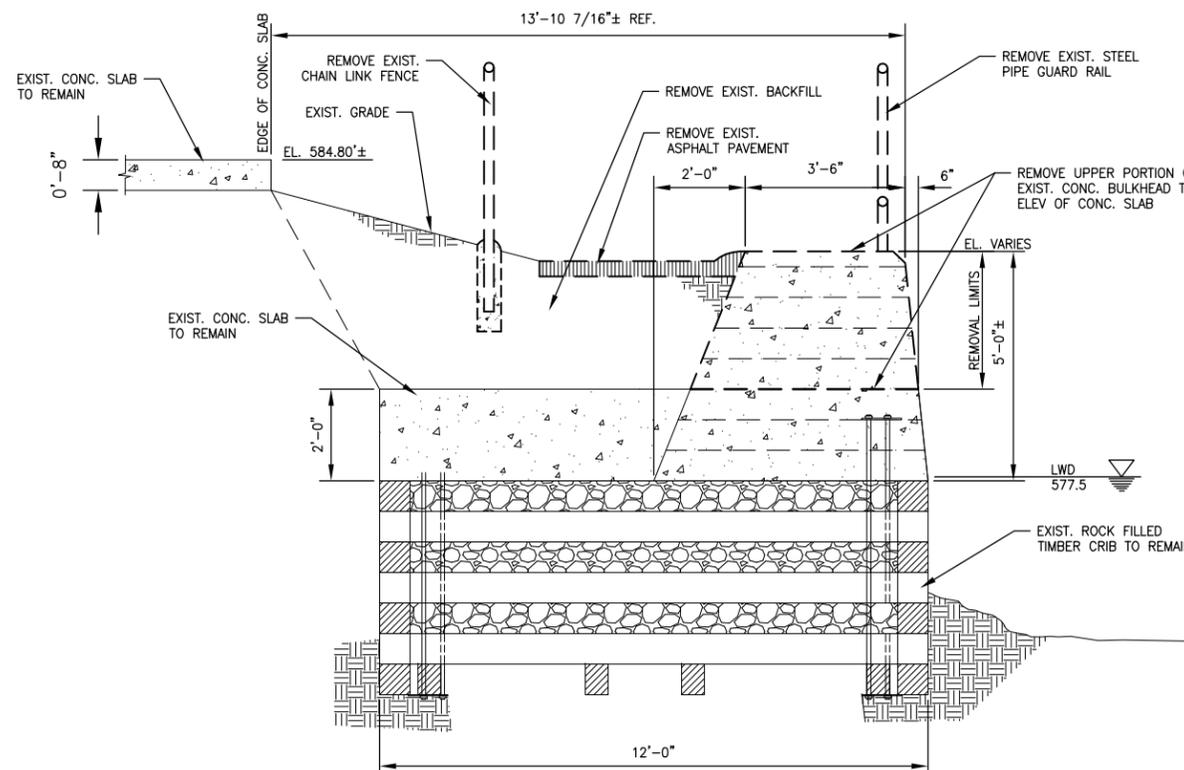
2

3

4



1 TYPICAL SECTION AT MAIN BULKHEAD (EAST)  
 C-04 DEMOLITION SCALE 1/2" = 1'-0"



2 TYPICAL SECTION AT MAIN BULKHEAD (WEST)  
 C-04 DEMOLITION SCALE 1/2" = 1'-0"

USCG CEU  
 CLEVELAND, OHIO  
 (216) 902-6200

CONSULTANTS



1035 Kepler Drive  
 Green Bay, WI 54311

U. S. COAST GUARD  
 CIVIL ENGINEERING UNIT  
 CLEVELAND



USCG CEU CLEVELAND  
 1240 EAST 9TH STREET  
 CLEVELAND, OH 44199-2060

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO:	60317892
CAD FILE NAME:	C8211C00
DESIGNED BY:	DAA
DRAWN BY:	DJB
EDITED BY:	
CHECKED BY:	TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE  
 REPLACE BULKHEAD  
 CG STATION WILMETTE HARBOR  
 WILMETTE IL  
 EAST & WEST BULKHEAD SECTIONS  
 DEMOLITION

REVIEWED BY:	REVIEWED BY:	REVIEWED BY:
R.A. PIPAK	B. VRANKAR	G. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P.R. CARROL, CDR  
 APPROVING OFFICER DATE

PROJECT NUMBER	DRAWING NUMBER
2270838	8243-D
DISCIPLINE/SHT NO	SHEET 4 OF 12
C-04	

CONSULTANTS

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1240 EAST 9TH STREET  
CLEVELAND, OH 44199-2060

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO: 60317892  
CAD FILE NAME:  
DESIGNED BY: DAA  
DRAWN BY: TNH  
EDITED BY:  
CHECKED BY: TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

**REPLACE BULKHEAD  
CG STATION WILMETTE HARBOR  
WILMETTE IL**

TYPICAL SECTIONS  
LAUNCHWAY DEMOLITION

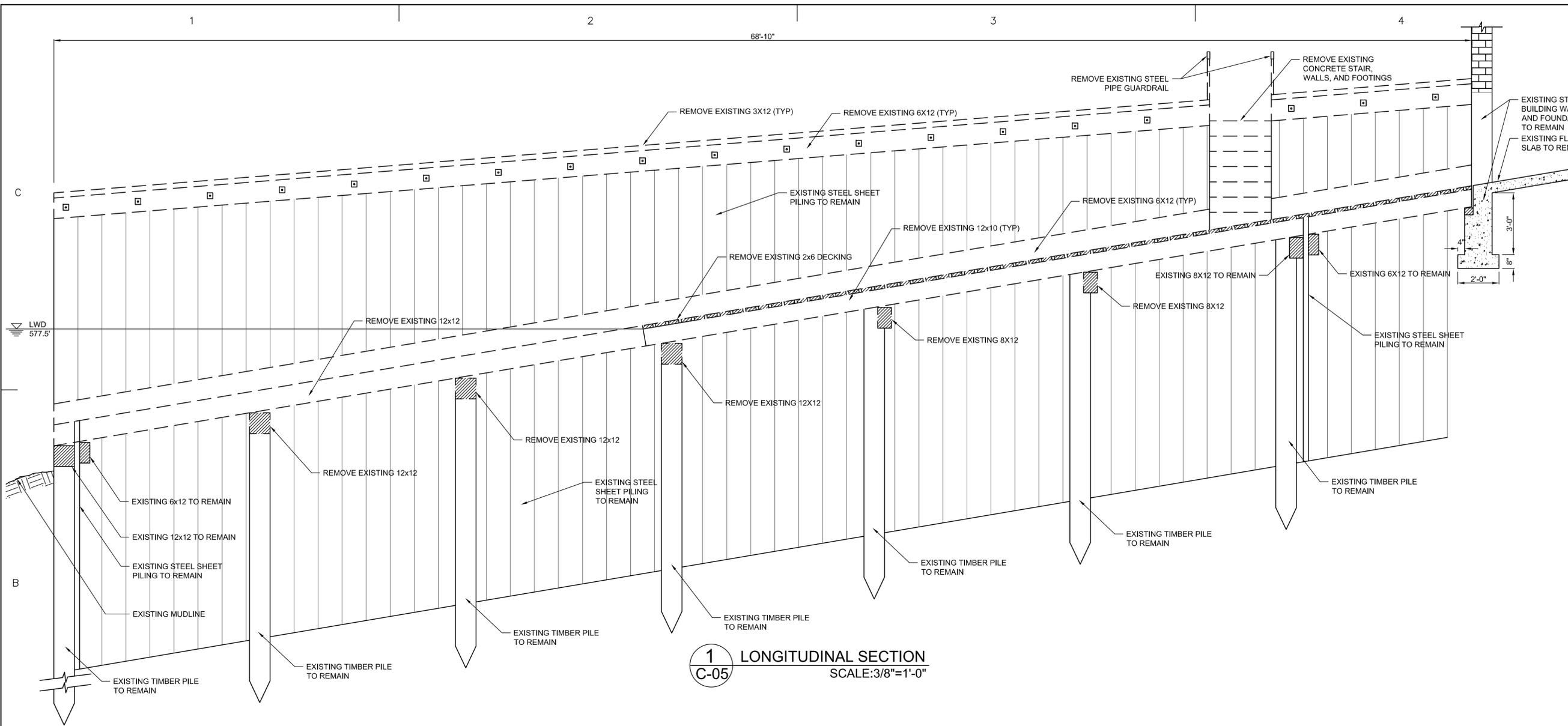
REVIEWED BY: R. A. PIPAK PROJECT ENG.	REVIEWED BY: B. VRANKAR BRANCH CHIEF	REVIEWED BY: G.S. PLACZEK TECH. DIRECTOR
---------------------------------------------	--------------------------------------------	------------------------------------------------

P. R. CARROLL, CDR. APPROVING OFFICER	DATE
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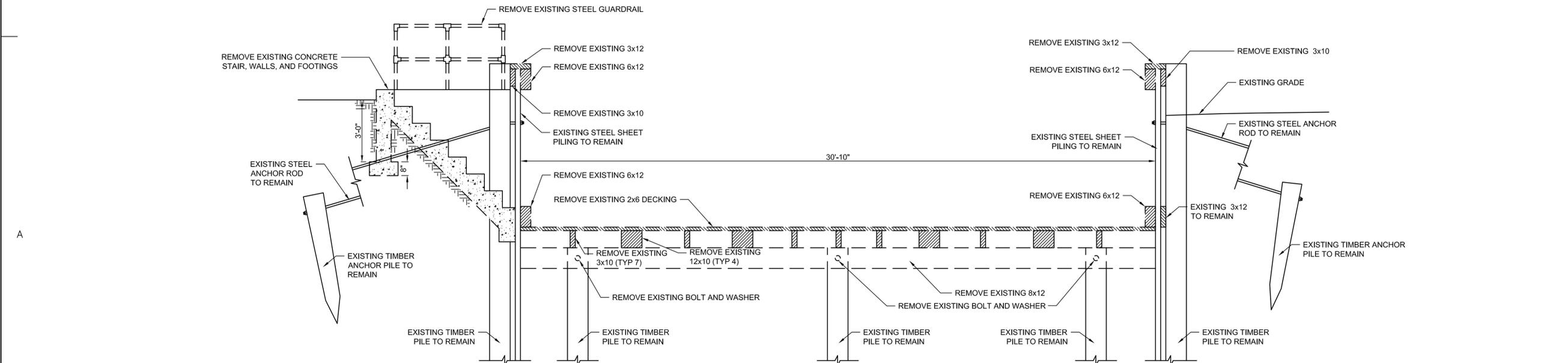
PROJECT NUMBER	DRAWING NUMBER
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2270838	8243
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DISCIPLINE/SHT NO C-05	SHEET 5 OF 12
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**1** LONGITUDINAL SECTION  
C-05 SCALE: 3/8"=1'-0"



**2** CROSS SECTION  
C-05 SCALE: 3/8"=1'-0"

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 1240 EAST 9TH STREET  
 CLEVELAND, OH 44199-2060

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO:	
CAD FILE NAME:	C8211C01
DESIGNED BY:	RAD
DRAWN BY:	RAD
EDITED BY:	
CHECKED BY:	DAA

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE  
**REPLACE BULKHEAD  
 CG STATION WILMETTE HARBOR**  
 WILMETTE IL

**PROPOSED MAIN BULKHEAD AND  
 LAUNCHWAY IMPROVEMENTS**

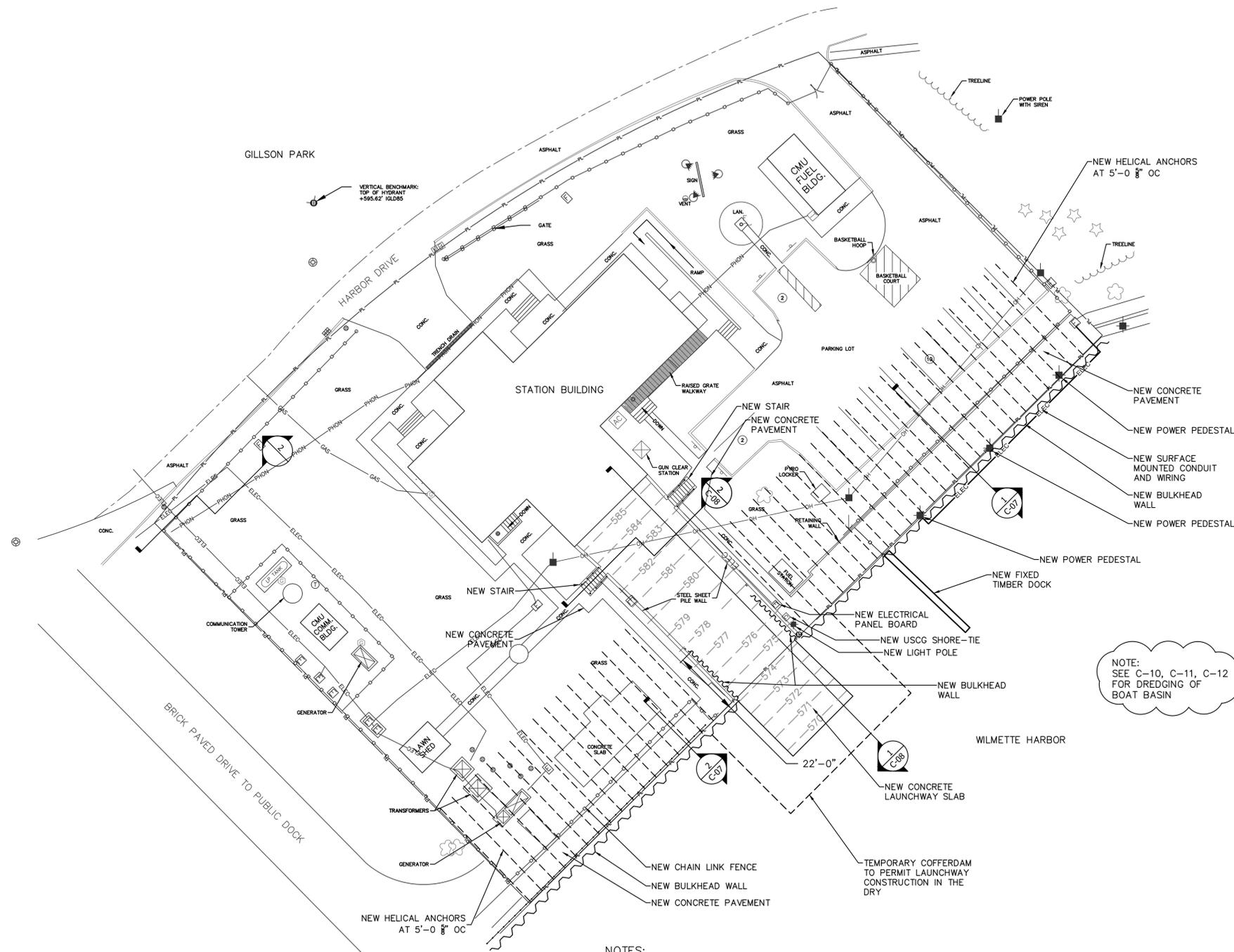
REVIEWED BY:	REVIEWED BY:	REVIEWED BY:
R.A. PIPAK	B. VRANKAR	G. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P.R. CARROLL, CDR  
 APPROVING OFFICER DATE

PROJECT NUMBER DRAWING NUMBER

2270838 8243-D

DISCIPLINE/SHT NO SHEET 6 OF 12  
 C-06



NOTE:  
 SEE C-10, C-11, C-12  
 FOR DREDGING OF  
 BOAT BASIN

**LEGEND**

LAN	Landscape	-----	1' Contour
⊕	Gas Meter	-----	5' Contour
F	Fiber Vault	---o---o---	Fence
	Inlet	---GAS---	Underground Gas Line
⊕	Round Catch Basin	---ELEC---	Underground Electric Line
⊕	Hydrant	---OH---	Overhead Electric Line
⊕	Bollard/Post	---PHON---	Underground Telephone Line
	Mailbox	-----	Centerline Road
+	Sign	---PL---	Property Line
F	Flag Pole	~~~~~	Tree Line
AC	AC Unit	↓	Guy Wire
⊕	Telephone Manhole	⊕	Electrical Vault
	Telephone Pedestal	⊕	Electrical Panel Board
▶	Decorative Light	⊕	USCG Shore-Tie
⊕	Power Pole	⊕	Deciduous Tree
⊕	Power Pedestal (Private)	⊕	Coniferous Tree
⊕	Bench Mark		
⊕	Soil Boring (2014)		
⊕	Light Pole		

- NOTES:**
1. Site surveyed by AECOM on March 25-27, 2014.
  2. Horizontal coordinates are referenced to Illinois State Plane County Coordinate System East Zone.
  3. Elevations are referenced to the International Great Lake Datum of 1985 (IGLD85).
  4. Underground utility lines shown here on are based on markings by JULIE per ticket number A0830644.
  5. The contractor/owner is responsible for making his/her own determination as to the type and location of underground utilities that may be necessary to avoid damage thereto. Contractor/owner shall be responsible to contact JULIE prior to start of any construction.

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CLEVELAND, OH 44199-2060

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO: 60317892  
CAD FILE NAME:  
DESIGNED BY: DAA  
DRAWN BY: TNH  
EDITED BY:  
CHECKED BY: TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

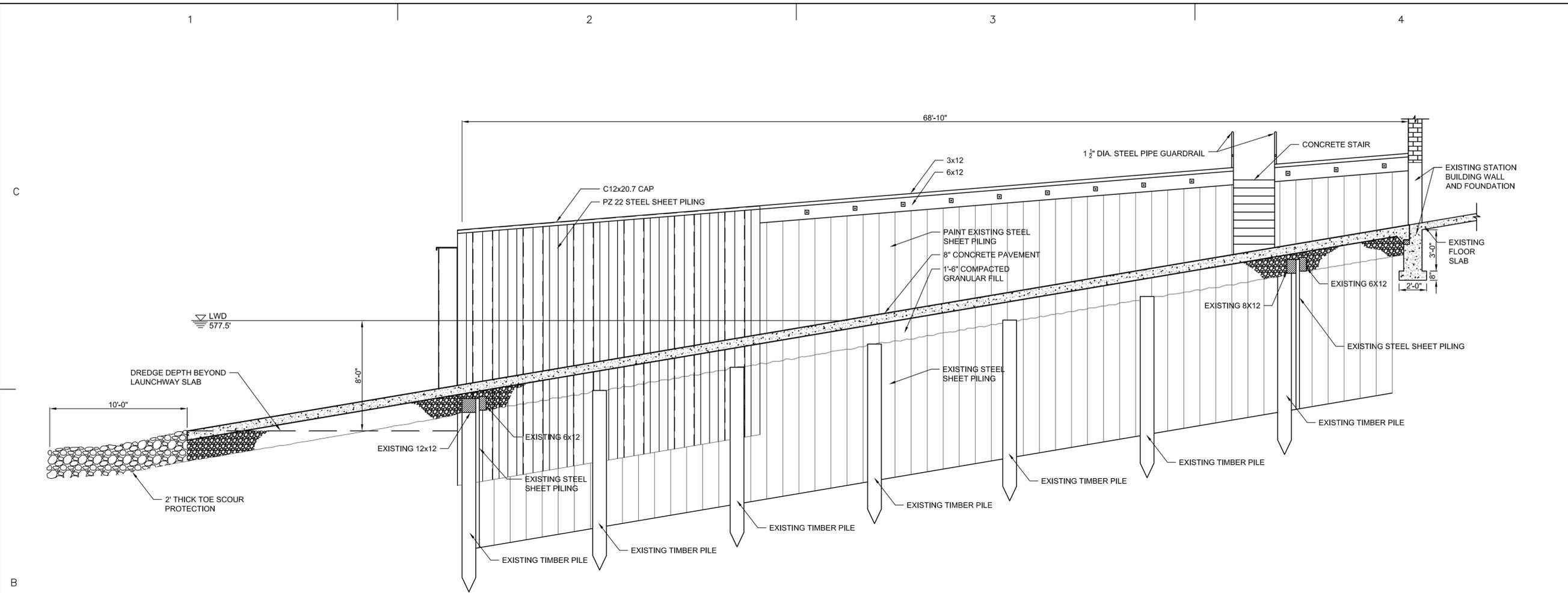
REPLACE BULKHEAD  
CG STATION WILMETTE HARBOR  
WILMETTE IL

TYPICAL SECTIONS  
LAUNCHWAY CONSTRUCTION

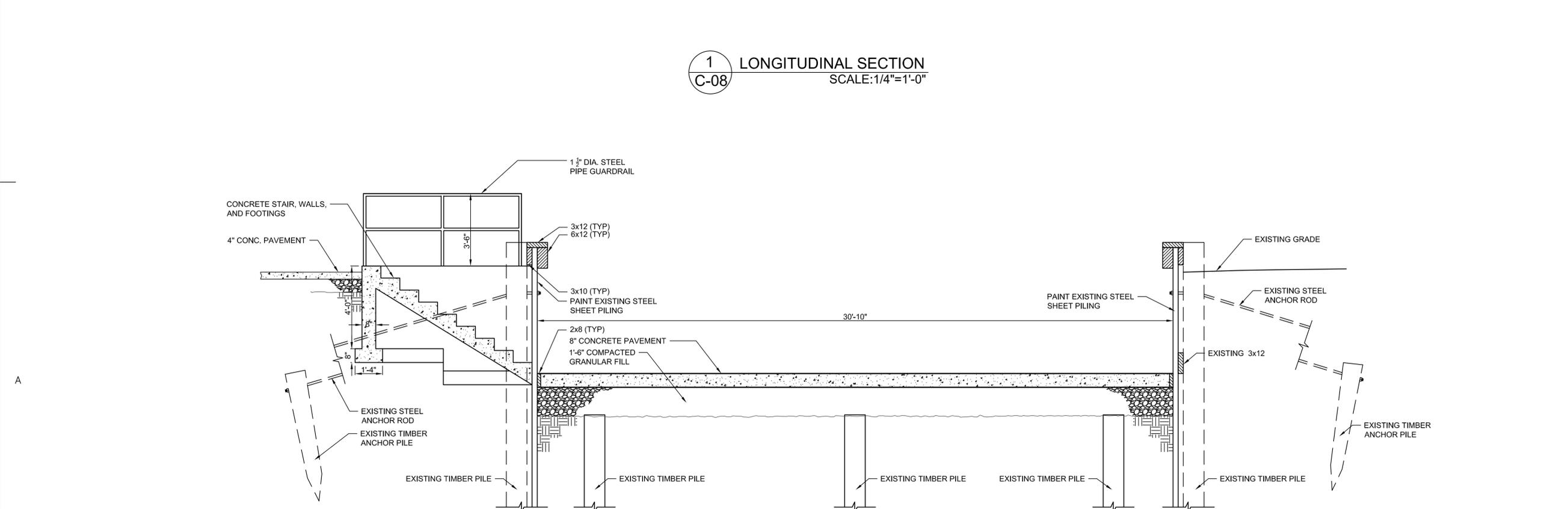
REVIEWED BY: R. A. PIPAK	REVIEWED BY: B. VRANKAR	REVIEWED BY: G.S. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P. R. CARROLL, CDR. APPROVING OFFICER	DATE
------------------------------------------	------

PROJECT NUMBER 2270838	DRAWING NUMBER 8243
DISCIPLINE/SHT NO C-08	SHEET 8 OF 12



**1** LONGITUDINAL SECTION  
C-08 SCALE: 1/4"=1'-0"



**2** CROSS SECTION  
C-08 SCALE: 3/8"=1'-0"

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A

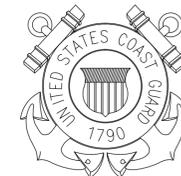
A

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CLEVELAND, OHIO  
(216) 902-6200

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Green Bay, WI 54311

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CLEVELAND



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1240 EAST 9TH STREET  
CLEVELAND, OH 44199-2060

ISSUE

MARK DATE DESCRIPTION

A/E PROJECT NO:  
CAD FILE NAME: C8211C01  
DESIGNED BY: RAD  
DRAWN BY: RAD  
EDITED BY:  
CHECKED BY: DAA

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

REPLACE BULKHEAD  
CG STATION WILMETTE HARBOR  
WILMETTE IL

TYPICAL SECTIONS  
LAUNCHWAY EXTENSION

REVIEWED BY: R.A. PIPAK B. VRANKAR G. PLACZEK  
PROJECT ENG. BRANCH CHIEF TECH. DIRECTOR

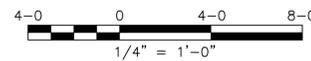
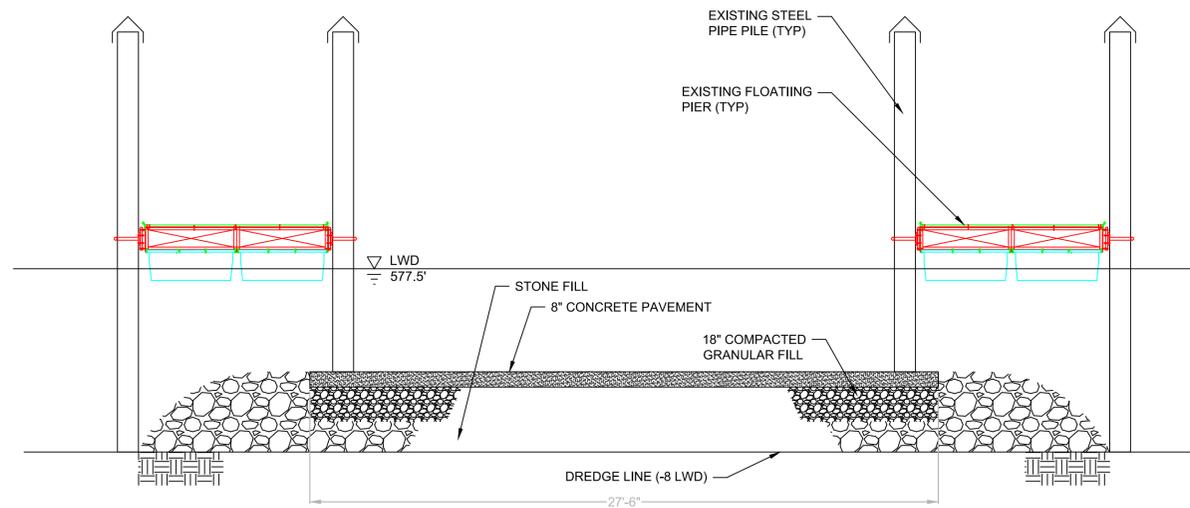
P.R. CARROLL, CDR  
APPROVING OFFICER DATE

PROJECT NUMBER DRAWING NUMBER

2270838 8243-D

DISCIPLINE/SHT NO

C-09 SHEET 9 OF 12



**1** CROSS SECTION THROUGH LAUNCHWAY RAMP  
SCALE: 1/4"=1'-0"

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ISSUE

MARK	DATE	DESCRIPTION

A/E PROJECT NO: 60317892  
CAD FILE NAME: C8243C10  
DESIGNED BY: SJR  
DRAWN BY: MJC  
EDITED BY: MJC  
CHECKED BY: TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

REPLACE BULKHEAD  
CG STATION WILMETTE HARBOR  
WILMETTE IL

CIVIL  
HYDROGRAPHIC SURVEY

REVIEWED BY: R.A. PIPAK PROJECT ENG.	REVIEWED BY: B. VRANKAR BRANCH CHIEF	REVIEWED BY: G.S. PLACZEK TECH. DIRECTOR
--------------------------------------------	--------------------------------------------	------------------------------------------------

P.R. CARROLL, CDR. APPROVING OFFICER	DATE
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PROJECT NUMBER	DRAWING NUMBER
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2270838	8243-D
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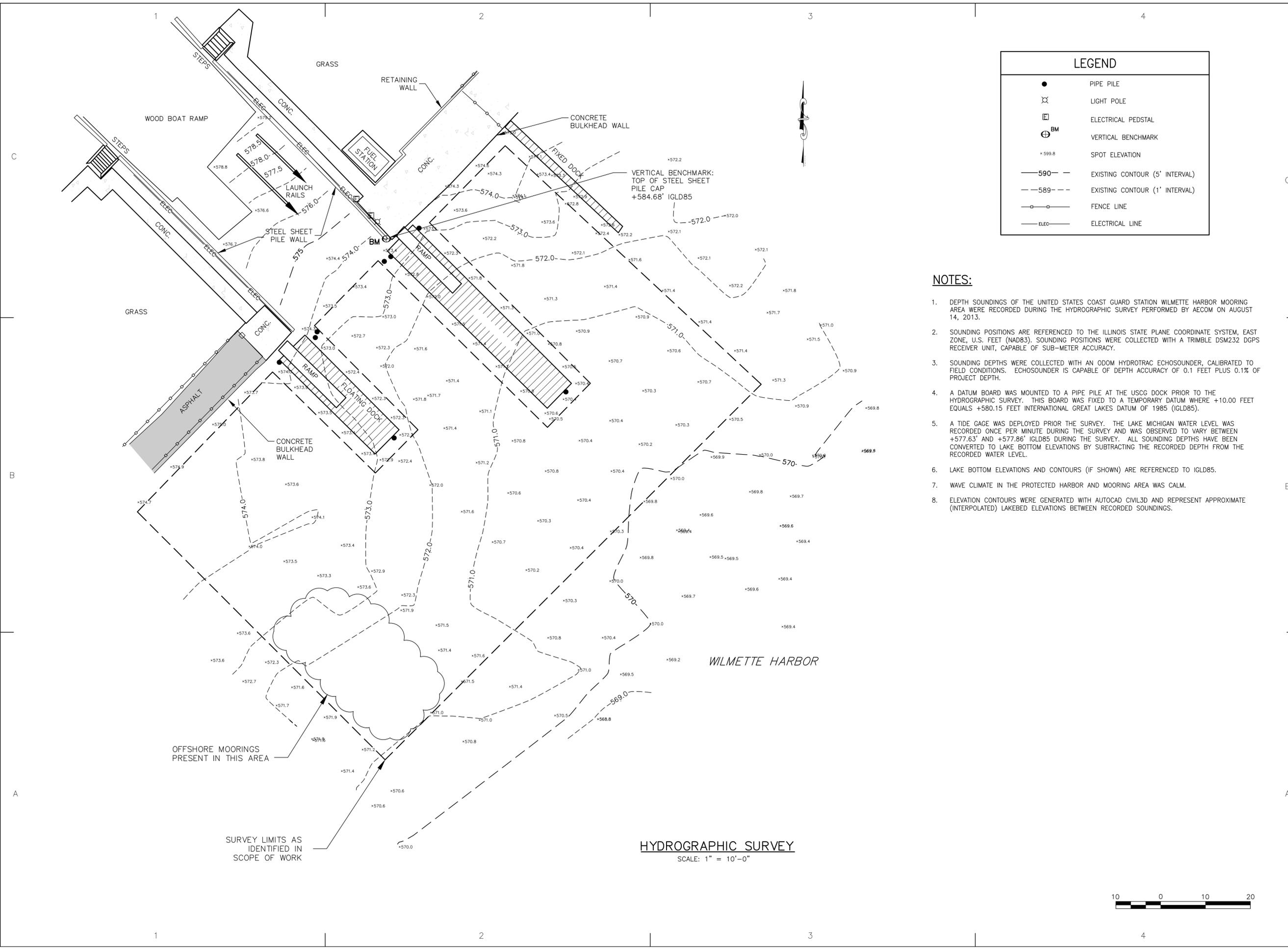
DISCIPLINE/SHT NO C-10	SHEET 10 OF 12
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LEGEND	
●	PIPE PILE
⊗	LIGHT POLE
⊞	ELECTRICAL PEDSTAL
⊕ <sup>BM</sup>	VERTICAL BENCHMARK
+ 599.8	SPOT ELEVATION
— 590 —	EXISTING CONTOUR (5' INTERVAL)
— 589 —	EXISTING CONTOUR (1' INTERVAL)
— ○ —	FENCE LINE
— ELEC —	ELECTRICAL LINE

**NOTES:**

- DEPTH SOUNDINGS OF THE UNITED STATES COAST GUARD STATION WILMETTE HARBOR MOORING AREA WERE RECORDED DURING THE HYDROGRAPHIC SURVEY PERFORMED BY AECOM ON AUGUST 14, 2013.
- SOUNDING POSITIONS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. FEET (NAD83). SOUNDING POSITIONS WERE COLLECTED WITH A TRIMBLE DSM232 DGPS RECEIVER UNIT, CAPABLE OF SUB-METER ACCURACY.
- SOUNDING DEPTHS WERE COLLECTED WITH AN ODOM HYDROTRAC ECHOSOUNDER, CALIBRATED TO FIELD CONDITIONS. ECHOSOUNDER IS CAPABLE OF DEPTH ACCURACY OF 0.1 FEET PLUS 0.1% OF PROJECT DEPTH.
- A DATUM BOARD WAS MOUNTED TO A PIPE PILE AT THE USCG DOCK PRIOR TO THE HYDROGRAPHIC SURVEY. THIS BOARD WAS FIXED TO A TEMPORARY DATUM WHERE +10.00 FEET EQUALS +580.15 FEET INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85).
- A TIDE GAGE WAS DEPLOYED PRIOR THE SURVEY. THE LAKE MICHIGAN WATER LEVEL WAS RECORDED ONCE PER MINUTE DURING THE SURVEY AND WAS OBSERVED TO VARY BETWEEN +577.63' AND +577.86' IGLD85 DURING THE SURVEY. ALL SOUNDING DEPTHS HAVE BEEN CONVERTED TO LAKE BOTTOM ELEVATIONS BY SUBTRACTING THE RECORDED DEPTH FROM THE RECORDED WATER LEVEL.
- LAKE BOTTOM ELEVATIONS AND CONTOURS (IF SHOWN) ARE REFERENCED TO IGLD85.
- WAVE CLIMATE IN THE PROTECTED HARBOR AND MOORING AREA WAS CALM.
- ELEVATION CONTOURS WERE GENERATED WITH AUTOCAD CIVIL3D AND REPRESENT APPROXIMATE (INTERPOLATED) LAKEBED ELEVATIONS BETWEEN RECORDED SOUNDINGS.

HYDROGRAPHIC SURVEY  
SCALE: 1" = 10'-0"



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CLEVELAND, OH 44199-2060

MARK	DATE	DESCRIPTION

A/E PROJECT NO: 60317892  
CAD FILE NAME: CB243C11  
DESIGNED BY: SJR  
DRAWN BY: MJC  
EDITED BY: MJC  
CHECKED BY: TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE  
**REPLACE BULKHEAD  
CG STATION WILMETTE HARBOR  
WILMETTE IL**

CIVIL  
**DREDGE PLAN**

REVIEWED BY: R.A. PIPAK	REVIEWED BY: B. VRANKAR	REVIEWED BY: G.S. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P.R. CARROLL, CDR. APPROVING OFFICER	DATE
-----------------------------------------	------

PROJECT NUMBER <b>2270838</b>	DRAWING NUMBER <b>8243-D</b>
DISCIPLINE/SHT NO <b>C-11</b>	SHEET <b>11</b> OF <b>12</b>

**LEGEND:**

- 590 — EXISTING CONTOUR (5' INTERVAL)
- - 589 - - EXISTING CONTOUR (1' INTERVAL)
- DREDGE COORDINATE POINT & ID
- [Dotted Pattern] PROPOSED DREDGE TO -8' LWD (569.5 IGLD85)
- [Hatched Pattern] PROPOSED DREDGE SIDE SLOPES (VARIES 3H:1V - 1H:1V)

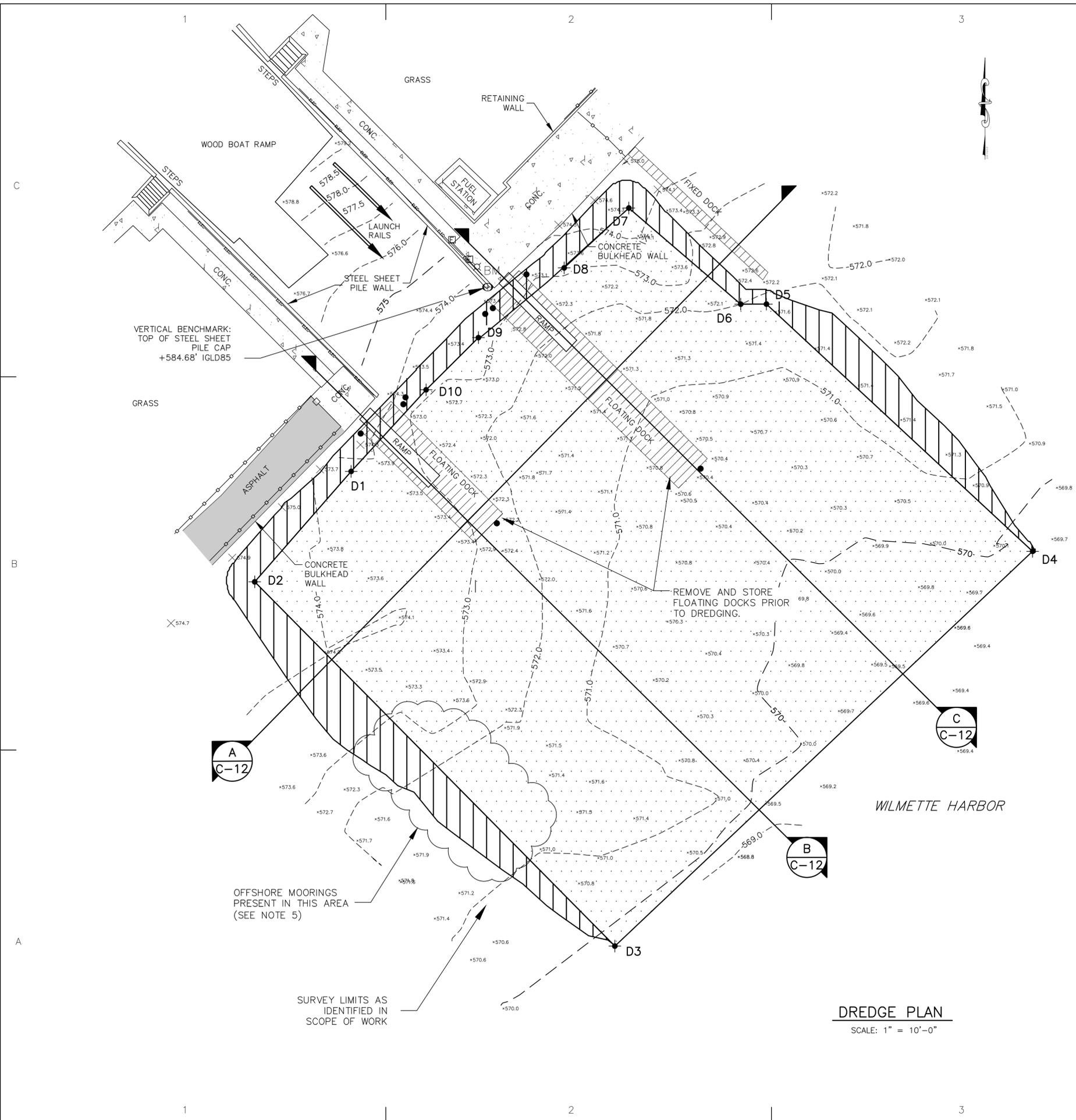
**NOTES:**

1. 0.0 LWD FOR LAKE MICHIGAN = 577.5 IGLD85.
2. THE TARGET DREDGE DEPTH FOR THIS PROJECT IS -8 FT LWD (569.5 IGLD85). DREDGING SHALL NOT EXCEED -9FT LWD (568.5 IGLD85).
3. EXISTING CONTOURS SHOWN ARE BASED ON HYDROGRAPHIC SURVEY PERFORMED BY AECOM ON AUGUST 14, 2013.
4. MORATORIUM: TO COMPLY WITH PERMITS, NO DREDGING SHALL BE CONDUCTED BETWEEN MM/DD AND MM/DD.
5. CONTRACTOR TO IDENTIFY LOCATIONS OF ALL OFF-SHORE MOORINGS IN, OR ADJACENT TO, THE ENTIRE PROPOSED DREDGE AREA PRIOR TO DREDGING, PROTECT OR RELOCATE MOORINGS DURING DREDGING AS NECESSARY. IF MOORINGS ARE RELOCATED, REPLACE AT COMPLETION OF DREDGING.

**DREDGE COORDINATE TABLE**

DREDGE ID	NORTHING	EASTING
D1	1971331.87	1160617.03
D2	1971311.17	1160598.91
D3	1971242.85	1160666.61
D4	1971316.89	1160745.13
D5	1971363.26	1160695.10
D6	1971363.25	1160690.26
D7	1971381.27	1160669.23
D8	1971370.05	1160657.08
D9	1971356.97	1160640.96
D10	1971347.18	1160631.13

- COORDINATES ARE IN ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. FEET (NAD83)



**DREDGE PLAN**

SCALE: 1" = 10'-0"



**NOTES:**

1. REMOVE EXISTING FLOATING PIERS PRIOR TO DREDGING. STORE ON-SITE AND REPLACE AFTER DREDGING AND LAUNCHWAY CONSTRUCTION IS COMPLETE.
2. CONTRACTOR SHALL USE METHODS AND EQUIPMENT THAT PROTECT PIER STRUCTURES FROM DAMAGE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE.

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CLEVELAND, OH 44199-2060

ISSUE

MARK	DATE	DESCRIPTION

A/E PROJECT NO: 60317892  
CAD FILE NAME: C8243C12  
DESIGNED BY: SJR  
DRAWN BY: MJC  
EDITED BY: MJC  
CHECKED BY: TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

REPLACE BULKHEAD  
CG STATION WILMETTE HARBOR  
WILMETTE IL

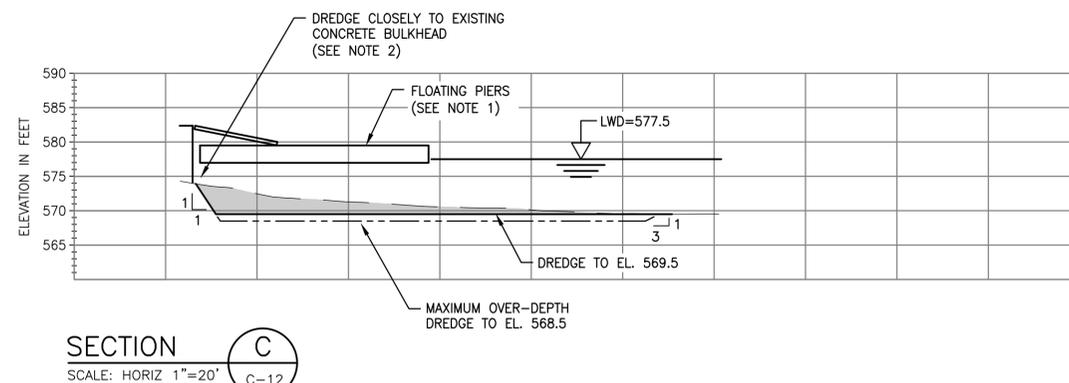
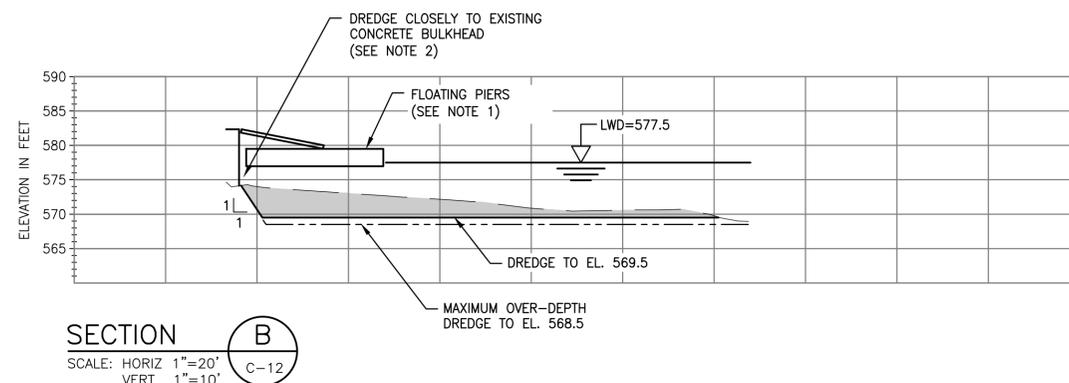
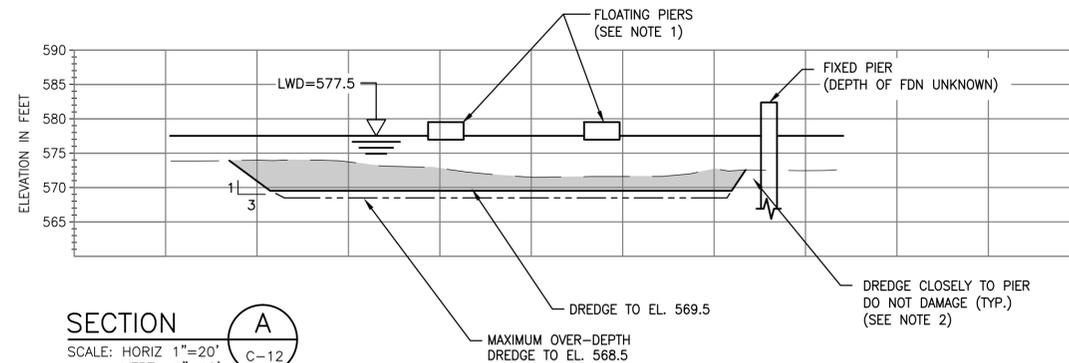
CIVIL  
DREDGE CROSS SECTIONS

REVIEWED BY: R.A. PIPAK PROJECT ENG.	REVIEWED BY: B. VRANKAR BRANCH CHIEF	REVIEWED BY: G.S. PLACZEK TECH. DIRECTOR
--------------------------------------------	--------------------------------------------	------------------------------------------------

P.R. CARROLL, CDR.  
APPROVING OFFICER

DATE

PROJECT NUMBER 2270838	DRAWING NUMBER 8243-D
DISCIPLINE/SHT NO C-12	SHEET 12 OF 12



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4

**ATTACHMENT (E)**  
**USFWS DOCUMENTATION**

## Memorandum

To	U.S. Coast Guard	Page	1
CC	Michelle Freimund, AECOM		
Subject	Section 7 Endangered Species Act Consultation – Dredging at USCG Station Wilmette Harbor, Wilmette Illinois.		
From	Glenn Hendrix, Senior Scientist, AECOM		
Date	August 18, 2014		

The United States Coast Guard (USCG) is completing an Environmental Assessment (EA) for dredging, bulkhead rehabilitation and launchway rehabilitation at the USCG Station Wilmette Harbor, located at 10 Harbor Drive in the City of Wilmette, Lake County, Illinois. The Station is on the north side of the harbor and is bordered on three sides by Gillson Park. Station Wilmette Harbor is an entirely developed property that is already paved or supports structures, and vegetation is limited to frequently mowed grass and conventional landscaping. Wilmette Harbor has been previously dredged.

USCG proposes to modify the Station's existing boat basin by dredging to a depth of 9 feet below the Low Water Datum (LWD) for Lake Michigan. LWL for Lake Michigan is 577.5 feet, so the boat basin will be dredged to 568.5 feet above sea level. This project is necessary due to lower lake levels, and the additional depth is needed to accommodate the USGC vessels assigned to Station Wilmette Harbor. Dredged material will be staged either on paved areas at the Station or on a barge. The dredged sediment will be disposed of at a licensed landfill.

The bulkheads bordering the Station and the launchway at the Station will be rehabilitated or rebuilt at the same locations as the existing facilities. Demolition material will be disposed of at a landfill.

On behalf of the USCG, AECOM reviewed the U.S. Fish and Wildlife Service (USFWS) Section 7 technical assistance website (<http://www.fws.gov/Midwest/Endangered/section7/index.html>) for federally listed threatened and endangered species. The following nine species are listed as present in Cook County: Northern long-eared bat (*Myotis septentrionalis*); Eastern massasauga (*Sistrurus catenatus*); Piping plover (*Charadrius melodus*); Hine's emerald dragonfly (*Somatochlora hineana*); Rattlesnake-master borer moth (*Papaipema eryngii*); Eastern prairie fringed orchid (*Platanthera leucophaea*); Leafy-prairie clover (*Dalea foliosa*); Mead's milkweed (*Asclepias meadii*); and Prairie-bush clover (*Lespedeza leptostachya*). **Table 1** summarizes the species listed in Cook County, the status of the species and habitat requirements.

The Wilmette Harbor Station and surrounding areas were inspected by an environmental scientist from AECOM on November 18, 2013. At that time, no habitat was found for any of the species listed above at the Station. Potential habitat for piping plover was present near the Station at the sandy beach habitat along the shoreline of Lake Michigan. The site inspection did not identify any piping plovers. On the north side of the North Channel, plover habitat was present, however this portion of the beach is used as a dog beach by the community and it is unlikely that any piping plovers would be found on the north side.

AECOM determined that the proposed dredging project may affect but is unlikely to adversely effect the piping plover. This determination was made on the basis that barges may be used for staging for the dredging operations and for transfer of the sediments to the final disposal site. If barge traffic occurs near the beach located on the shore of Lake Michigan south of the North Channel, the potential for the noise associated with this barge traffic could result in piping plovers avoiding the beach.

AECOM requested concurrence with its effect determinations from USFWS on December 6, 2013. The USFWS stated in a December 20, 2013 telephone conversation, that the USCG would be justified in making a no-effect determination for the piping plover.

AECOM has concluded that the proposed project dredging, bulkhead rehabilitation and launchway rehabilitation at the USCG Station Wilmette Harbor will have "no effect" on the listed species, their habitats, or designated critical habitats.

If you have any questions regarding the Section 7 Endangered Species Act Consultation process completed for this project give Michelle Freimund at (920) 236-6712 or Glenn Hendrix at (616) 940-4406, respectively.

Table 1. Listing of Endangered Species at Wilmette Harbor

Species	Status	Habitat	Habitat Present
Northern long-eared bat <sup>1</sup> ( <i>Myotis septentrionalis</i> )	Federal Proposed as Endangered	Caves and Mines, swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests and woods.	No
Piping plover <sup>1</sup> ( <i>Charadrius melodus</i> )	Federal Endangered	Lakeshore beaches	Yes
Hine's emerald dragonfly <sup>1</sup> ( <i>Somatochlora hineana</i> )	Federal Endangered	Spring fed wetlands, wet meadows and marshes	No
Eastern massasauga <sup>1</sup> ( <i>Sistrurus catenatus</i> )	Federal Candidate	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies, open woodlands, and shrublands)	No
Rattlesnake-master borer moth <sup>1</sup> ( <i>Papaipema eryngii</i> )	Federal Candidate	Undisturbed prairie and woodland openings that contain their only food plant, rattlesnake-master	No
Eastern prairie fringed orchid <sup>1</sup> ( <i>Platanthera leucophaea</i> )	Federal Threatened	Moderate to high quality wetlands, sedge meadow, marsh, and mesic to wet prairie	No
Leafy-prairie cover <sup>1</sup> ( <i>Parnassia parviflora</i> )	Federal Endangered	Prairie remnants on thin soil over limestone	No
Mead's milkweed <sup>1</sup> ( <i>Asclepias meadii</i> )	Federal Threatened	Late successional tallgrass prairie, tallgrass prairie converted to hay meadow	No
Prairie-bush clover <sup>1</sup> ( <i>Lespedeza leptostachya</i> )	Federal Threatened	Dry to mesic prairies with gravelly soil	No

1 Source: USFWS, Midwest Region's Section 7 Technical Assistance Website <http://www.fws.gov/midwest/endangered/section7/index.html> (accessed November 2013).

## Nash, Cheryl

---

**From:** Nash, Cheryl  
**Sent:** Friday, December 20, 2013 9:55 AM  
**To:** Freimund, Michelle  
**Cc:** Kuruc, Renee (Renee.Kuruc@aecom.com)  
**Subject:** USCG Wilmette Harbor Station - ESA Compliance

I just received a telephone call from Cathy Pollack of USF&WS regarding our letter advising UWF&WS that the USCG made a no effect determination regarding the dredging on most of the federally protected species known to occur in Cook County. The letter to USF&WS also advised that the USCG made a may affect but not likely to adversely affect determination on the piping plover because of the potential for noise from the barges traveling past potential plover habitat on the south side of North Channel.

Ms. Pollack advised that the portion of the beach south of North Channel is too narrow for piping plover nesting habitat and therefore the birds do not nest there; if piping plovers use the beach it is for foraging only. Ms. Pollack advised that since the barges would be traveling past the beach at a sufficient distance that the noise would not be excessive, and there would be no work on the beach itself, the USCG would be justified in making a no effect determination for the piping plover.

Based on this telephone call from Ms. Pollack of USF&WS, we are recommending that the USCG make a determination that dredging and work on the bulkheads at the Wilmette Harbor Station will have no effect on federally protected species. We would appreciate it we can receive confirmation from the USCG as to this determination.

We will document this coordination in the EA, with substantiating documentation in the appendix.

Thank you.

*Cheryl Nash*  
Senior Project Scientist  
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