

August 11, 2014

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

**Subject: Federal Notice of Consistency Determination, U.S. Coast Guard Station
Calumet Harbor, Proposed Dredging of Mooring Area and Approach Channel**

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 mooring area and approach channel at the USCG Station in Calumet Harbor, 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 dredging is in the Illinois Coastal Zone, will have coastal effects and requires federal permits and state 401 Water Quality Certification. The proposed dredging 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 Calumet Harbor is located at 4001 East 98th Street in Section 5, Township 37 North, Range 15 East within the City of Chicago, Cook County, Illinois. **Attachment A** shows the project location. **Attachment B** is an aerial photograph of the general area. Ground level photographs of Station Calumet are in **Attachment C**.

Station Calumet Harbor faces southeast in the southeast corner of Calumet Park, with several mooring docks oriented approximately east-west (Attachment B). The Station is accessed via a driveway from East 98th Street. Station Calumet Harbor consists of an onshore multi-purpose building, barracks, boat storage building, lawn shed, waste oil shed, aboveground fuel pads, communications tower, access roads and parking areas, boat ramp, permanent dock, and floating docks (Attachment C). The mooring area is surrounded by a break wall constructed of steel sheeting with some boulders on the lake side. The station is the sole user of the mooring area. The shoreline within the mooring area is also protected by steel sheeting. The floating docks serve Response Boat – Small (RB-S), Response Boat – Homeland Security (RB-HS), and Response Boat - Medium (RB-M) sized vessels.

The mooring area and approach channel were last dredged in 2011, under the U S. Army Corps of Engineers (USACE) Nationwide Permit (NWP) 35 (Maintenance Dredging of Existing Basins) issued January 2011, and permit number LM2011003, dated May 3, 2011, from the Illinois Department of Natural Resources (IDNR) Office of Water Resources and the Illinois Environmental Protection Agency (IEPA). Both the USACE and IDNR permits authorized up to 6,000 cubic yards of dredge material, with disposal at the USACE's Chicago Area Confined Disposal Facility (CDF). The USACE permit expired October 5, 2013, while the IDNR permit is valid until December 31, 2014.

Purpose

USCG Station Calumet Harbor's primary responsibilities are Search and Rescue and law enforcement. The Station completes approximately 200 Search and Rescue cases and 1,000 law enforcement cases each year. Station Calumet Harbor also conducts about ten presidential security zones and over 75 major marine events each year, including the Chicago Air and Water show. The Air and Water show is the largest event of its kind in the world with over 3,000,000 spectators. The Station's area of responsibility covers Lake Michigan encompassed by a line from the shoreline at 087-140' west, thence northwesterly along the shoreline to 41-54.0' N to 42-04'-N, 087-00.0' west, thence southeasterly to the point of origin.

The purpose of this project is to dredge the mooring area and approach channel to a required depth below the Low Water Datum (LWD). The dredging is necessary due to low lake levels. Reduced lake levels and the addition of new vessels encumber the USCG's ability to transit, moor, and execute operational missions. The proposed dredging is necessary to prevent the shoaling the USCG has experienced at this Station.

Extent of Work and Description

For Station Calumet Harbor, the USCG requires base dredging to 8 feet below LWD and additional over depth dredging to 9 feet below LWD. LWD for Lake Michigan is elevation 577.5 (International Great Lakes Datum, 1985). Therefore, dredging will proceed to approximately elevation 568.5.

Approximately 3,312 cubic yards of sediment will be dredged from the USCG mooring area and approach channel. Drawings of the area and depth of the proposed dredging are in **Attachment D**.

The dredged material will be loaded onto trucks at the Station or transported by barge to a commercial dock where it will be loaded onto trucks. The dredged material will be transported by truck for disposal at Waste Management's Laraway Recycling and Disposal Facility (Joliet IL, Will and Kendall counties, a licensed landfill).

Project Start Date and Duration

The project will start in 2014, but the exact start date has not been determined. This project requires a Section 404 Clean Water Act permit and a Section 401 Water Quality Certification before work can begin. Dredging is expected to be completed in approximately six weeks.

Project Review

Physical Environment: Physical changes to the environment are limited to deepening of the mooring area and approach channel.

Coastal Erosion and Flooding: The dredging project will not affect coastal erosion or flooding.

Natural Environment: The project will not affect the terrestrial environment because material will be disposed of at an existing licensed landfill. The Station Calumet Harbor is in a developed urban area and has been previously dredged, so natural plant communities will not be affected. The Station itself is an entirely developed area that is paved or supports structures, and the only vegetation is limited to frequently mowed grass, conventional landscaping, and weedy areas in rip rap along the shore.

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) 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 eryngli*); Eastern prairie fringed orchid (*Platanthera leucophaea*); Leafy-prairie clover (*Dalea foliosa*); Mead's milkweed (*Asclepias meadii*); and Prairie-bush clover (*Lespedeza leptostachya*).

An ecologist from AECOM visited the site on June 23, 2014 to determine if habitat for any of these species is present at or near Station Calumet Harbor. Habitat for all the species except the piping plover is not present. Designated critical habitat for the piping plover is not present. Most of the nearby shoreline is armored with large stones, but potential piping plover foraging habitat is present along Lake Michigan at nearby beaches to the north and south of the Station. The beaches are part of the adjacent Calumet Park and are heavily used for recreation. The beaches lack natural vegetation and are maintained by raking. The recreational use of these beaches limits their value as foraging habitat for plovers, and the beaches do not provide nesting habitat. No work is proposed on or near the beaches, but if barges are used for dredging there could be some short term disturbance related to noise.

On behalf of the USCG, AECOM also reviewed the critical habitat locations (Units) identified on the species list for Hine's emerald dragonfly. None of the Unit locations are located near the USCG Station Calumet Harbor.

Based on the information provided by AECOM, the USCG concluded that the proposed project will have "no effect" on all of the species listed above (except the piping plover) because no habitat is present for these species. The USCG determined that the project will have no effect on critical habitat for piping plover because the critical habitat is not present. The USCG has determined that there will be no effect on the potential piping plover foraging habitat because the barges will be traveling past the beach at a sufficient distance, the noise will not be excessive, and there will be no work on the beach itself.

Impacts to peregrine falcon, the only State-listed species potentially present in the area, are not anticipated because the nearest known nest site (located along the Skyway) has not been active since 2011 (Field Museum, 2014, www.fieldmuseum.org/illinois-peregrines, accessed May 28, 2014). The proposed dredging will not disturb falcon nesting habitat, which in this area is restricted to buildings, bridges, and other man-made structures (Table 1). The proposed dredging will not directly impact foraging habitat for falcons. The additional short-term boat traffic and noise associated with dredging from a barge will not add significantly to the existing boat traffic and noise in this area.

Environmental Contamination: The sediments to be dredged have been 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.

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. 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

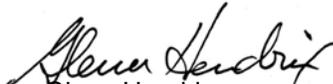
Conclusion

On behalf of the USCG, AECOM has reviewed the potential impacts of dredging the mooring area and approach channel at Station Calumet Harbor and concluded that the proposed activity is consistent 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) or Cheryl Nash at (312) 373-6808 (Cheryl.Nash@aecom.com).

Sincerely,


Glenn Hendrix
Senior Scientist


Cheryl Nash
Senior Project Scientist

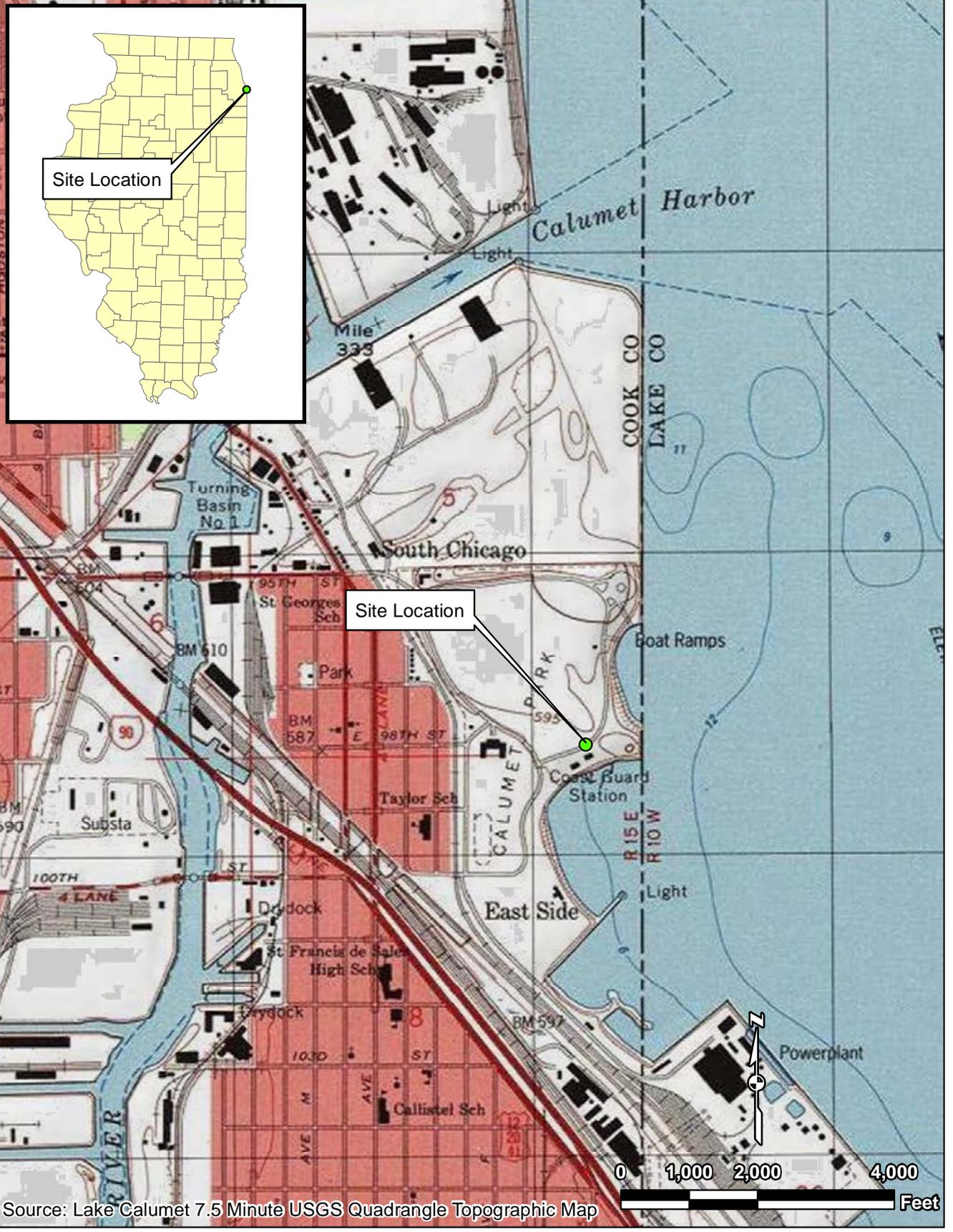
Attachment A – Dredge Site Location Map
Attachment B – Dredge Site Aerial Photographs
Attachment C – Dredge Site Ground Level Photographs
Attachment D – Dredge Site – 35% Plan

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(2013-08-21)
Filename: J:\Projects and Proposal\US Coast Guard\60303281_Dredging at Various D9 Units_IL-MI-WI900_WorkingDocs-CAD\GIS\Chicago.mxd



Source: Lake Calumet 7.5 Minute USGS Quadrangle Topographic Map

US Coast Guard
4001 E 98th St
Chicago, Illinois
Project No.: 60303281 Date: 8/21/2013

Site Location Map
Station Calumet Harbor
Cook County

AECOM
Figure 1

ATTACHMENT (B)

DREDGE SITE – AERIAL PHOTOGRAPH



Source: Map provided by USCG in Scope of Work



US Coast Guard
Station Calumet Harbor
Cook County, Illinois

Dredge Site –
Aerial Photograph

Attachment B

ATTACHMENT (C)

DREDGE SITE – GROUND-LEVEL PHOTOGRAPHS

PHOTOGRAPHIC LOG

Client Name: USCG	Site Location: Station Calumet Harbor	Project No.: 5395630
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Photo No. 1	Date: 8/14/13
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Description:

Station building, barracks, and boat basin – Looking north into approach channel.



Photo No. 2	Date: 8/14/13
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Description:

Boat storage building, communication tower, station building, and west break wall – Looking north.



PHOTOGRAPHIC LOG

Client Name:
USCG

Site Location:
Station Calumet Harbor

Project No.:
5395630

Photo No.
3

Date:
8/14/13

Description:

Boat Basin – Looking south from Station.



Photo No.
4

Date:
8/14/13

Description:

Boat Basin – Looking northeast along break wall.



PHOTOGRAPHIC LOG

Client Name:
USCG

Site Location:
Station Calumet Harbor

Project No.:
5395630

Photo No.
5

Date:
8/14/13

Description:

West break wall and boulders – Looking northwest.



Photo No.
6

Date:
8/14/13

Description:

Interior portion of west break wall – Looking east.



PHOTOGRAPHIC LOG

Client Name:
USCG

Site Location:
Station Calumet Harbor

Project No.:
5395630

Photo No.
7

Date:
8/14/13

Description:

Boat ramp – Looking north.



Photo No.
8

Date:
8/14/13

Description:

Station property and boat basin. Fuel pads visible in background on left – Looking east.



PHOTOGRAPHIC LOG

Client Name:
USCG

Site Location:
Station Calumet Harbor

Project No.:
5395630

Photo No.
9

Date:
8/14/13

Description:

West floating docks –
Looking southwest from
permanent dock.



Photo No.
10

Date:
8/14/13

Description:

Floating dock and boat
basin - Looking east.



PHOTOGRAPHIC LOG

Client Name:
USCG

Site Location:
Station Calumet Harbor

Project No.:
5395630

Photo No.
11

Date:
8/14/13

Description:

Ramp to floating dock and steel sheet break wall - Looking south.



Photo No.
12

Date:
8/14/13

Description:

Electrical shore tie –
Looking North.

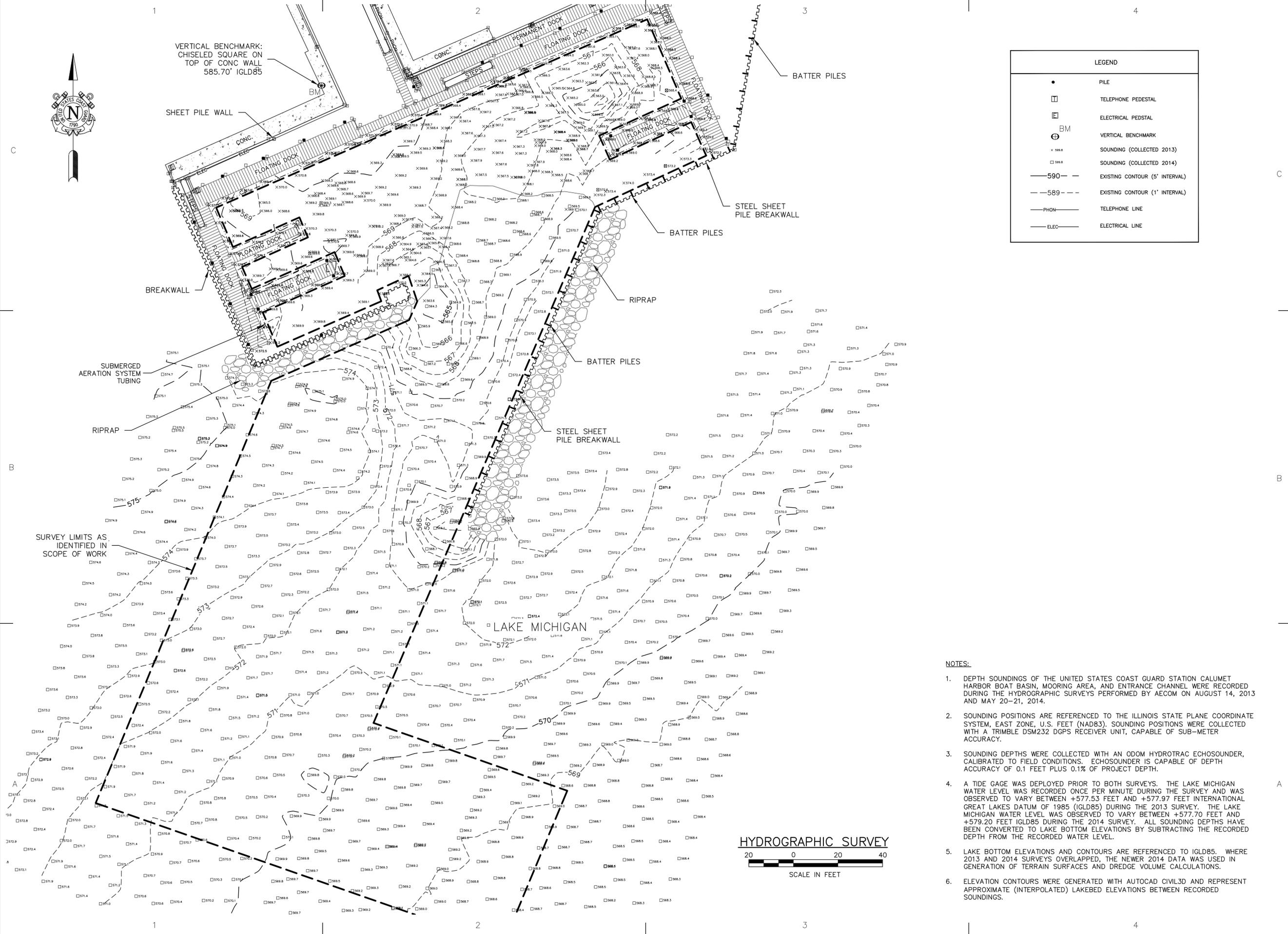


ATTACHMENT (D)

DREDGE SITE – 35% PLAN



VERTICAL BENCHMARK:
CHISELED SQUARE ON
TOP OF CONC WALL
585.70' IGLD85



LEGEND	
•	PILE
□	TELEPHONE PEDESTAL
□	ELECTRICAL PEDSTAL
⊕	VERTICAL BENCHMARK
× 599.8	SOUNDING (COLLECTED 2013)
□ 599.8	SOUNDING (COLLECTED 2014)
—590—	EXISTING CONTOUR (5' INTERVAL)
- - -589 - - -	EXISTING CONTOUR (1' INTERVAL)
—PHON—	TELEPHONE LINE
—ELEC—	ELECTRICAL LINE

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CLEVELAND

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

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO: 60320378
CAD FILE NAME: C8179C02.DWG
DESIGNED BY: SJR
DRAWN BY: MJC
EDITED BY: MJC
CHECKED BY: TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

**DREDGE APPROACH CHANNEL/MOORINGS
CG STATION CALUMET HARBOR
CHICAGO IL**

CIVIL
HYDROGRAPHIC SURVEY

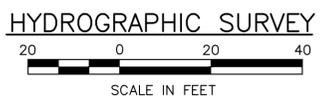
REVIEWED BY: JAMES NICKS PROJECT ENG.	REVIEWED BY: G.P. LODGE BRANCH CHIEF	REVIEWED BY: G.S. PLACZEK TECH. DIRECTOR
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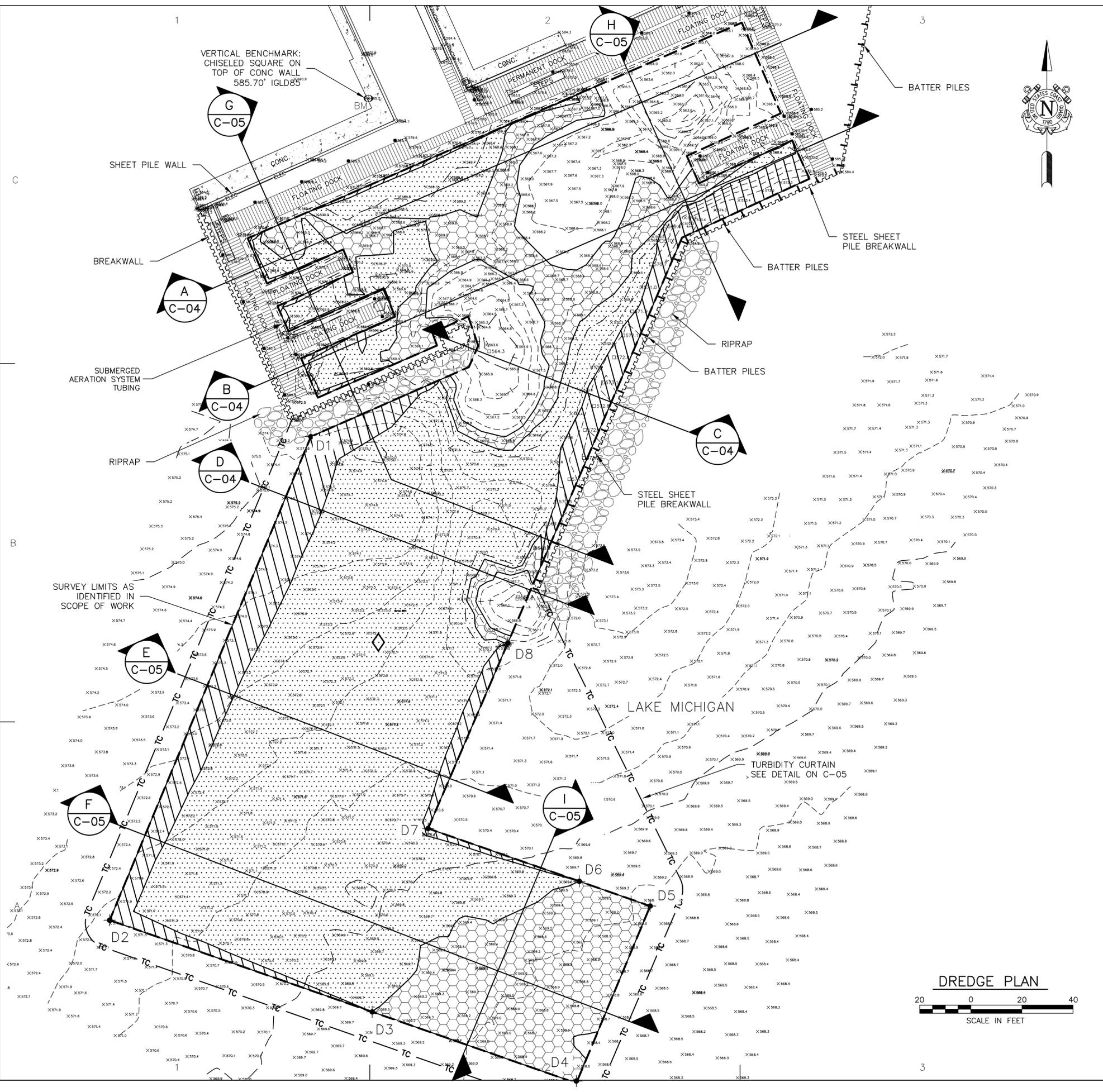
P.R. CARROLL, CDR.
APPROVING OFFICER

DATE

PROJECT NUMBER 5395630	DRAWING NUMBER 8179-D
DISCIPLINE/SHT NO C-02	SHEET 2 OF 5

- NOTES:
- DEPTH SOUNDINGS OF THE UNITED STATES COAST GUARD STATION CALUMET HARBOR BOAT BASIN, MOORING AREA, AND ENTRANCE CHANNEL WERE RECORDED DURING THE HYDROGRAPHIC SURVEYS PERFORMED BY AECOM ON AUGUST 14, 2013 AND MAY 20-21, 2014.
 - 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 TIDE GAGE WAS DEPLOYED PRIOR TO BOTH SURVEYS. THE LAKE MICHIGAN WATER LEVEL WAS RECORDED ONCE PER MINUTE DURING THE SURVEY AND WAS OBSERVED TO VARY BETWEEN +577.53 FEET AND +577.97 FEET INTERNATIONAL GREAT LAKES DATUM OF 1985 (IGLD85) DURING THE 2013 SURVEY. THE LAKE MICHIGAN WATER LEVEL WAS OBSERVED TO VARY BETWEEN +577.70 FEET AND +579.20 FEET IGLD85 DURING THE 2014 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 ARE REFERENCED TO IGLD85. WHERE 2013 AND 2014 SURVEYS OVERLAPPED, THE NEWER 2014 DATA WAS USED IN GENERATION OF TERRAIN SURFACES AND DREDGE VOLUME CALCULATIONS.
 - ELEVATION CONTOURS WERE GENERATED WITH AUTOCAD CIVL3D AND REPRESENT APPROXIMATE (INTERPOLATED) LAKEBED ELEVATIONS BETWEEN RECORDED SOUNDINGS.





LEGEND:

- 590--- EXISTING CONTOUR (5' INTERVAL)
- 589--- EXISTING CONTOUR (1' INTERVAL)
- DREDGE COORDINATE POINT & ID
- [Pattern] PROPOSED DREDGING TO TARGET DEPTH -8 LWD
- [Pattern] PROPOSED OVER-DEPTH DREDGE TO -9 LWD
- [Pattern] PROPOSED DREDGE SIDE SLOPES (3H:1V AT OUTER BOUNDARY, 1H:1V ALONGSIDE PIERS)

NOTES:

1. 0.0 LWD FOR LAKE MICHIGAN = 577.5 IGLD85.
2. THE TARGET DREDGE DEPTH FOR THIS PROJECT IS -8 FT LWD. OVER-DEPTH DREDGE IN THESE AREAS SHALL NOT EXCEED -9 FT LWD.
3. CONTRACTOR SHALL USE METHODS AND EQUIPMENT THAT PROTECT THE PIER AND WALL STRUCTURES FROM DAMAGE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE.
4. MORATORIUM: TO COMPLY WITH PERMITS, NO DREDGING SHALL BE CONDUCTED BETWEEN MM/DD AND MM/DD.

DREDGE COORDINATE TABLE

DREDGE ID	NORTHING	EASTING
D1	1840405.99	1204490.66
D2	1840217.04	1204411.86
D3	1840181.23	1204514.67
D4	1840153.41	1204594.60
D5	1840222.58	1204623.50
D6	1840232.26	1204595.73
D7	1840252.89	1204536.55
D8	1840325.38	1204567.77

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

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(216) 902-6200

CONSULTANTS

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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: 60320378
 CAD FILE NAME: CB179C03.DWG
 DESIGNED BY: SJR
 DRAWN BY: MJC
 EDITED BY: MJC
 CHECKED BY: TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

**DREDGE APPROACH CHANNEL/MOORINGS
CG STATION CALUMET HARBOR
CHICAGO IL**

CIVIL
DREDGE PLAN

REVIEWED BY: JAMES NICKS	REVIEWED BY: G.P. LODGE	REVIEWED BY: G.S. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P.R. CARROLL, CDR.
APPROVING OFFICER

PROJECT NUMBER 5395630	DRAWING NUMBER 8179-D
DISCIPLINE/SHT NO C-03	SHEET 3 OF 5

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 CLEVELAND



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 CLEVELAND, OH 44199-2060

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO:	60320378
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DESIGNED BY:	SJR
DRAWN BY:	MJC
EDITED BY:	MJC
CHECKED BY:	TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE

DREDGE APPROACH CHANNEL/MOORINGS
 CG STATION CALUMET HARBOR
 CHICAGO IL

CIVIL
 DREDGE CROSS SECTIONS

REVIEWED BY:	REVIEWED BY:	REVIEWED BY:
JAMES NICKS	G.P. LODGE	G.S. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

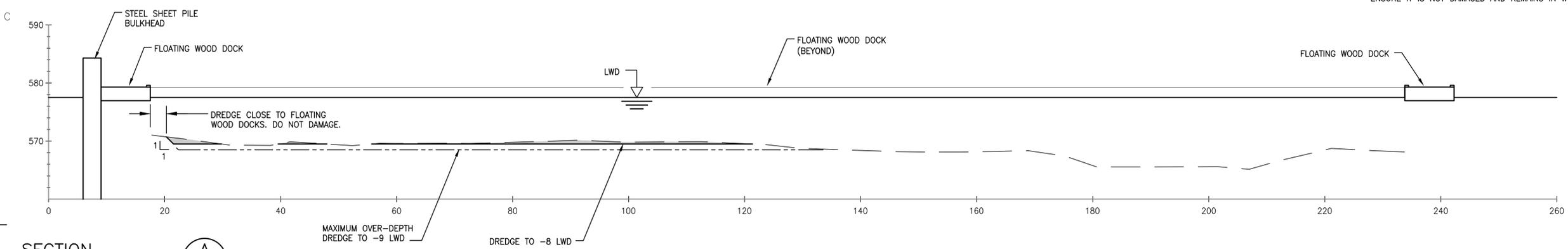
P.R. CARROLL, CDR.
 APPROVING OFFICER DATE

PROJECT NUMBER	DRAWING NUMBER
5395630	8179-D
DISCIPLINE/SHT NO	SHEET 4 OF 5
C-04	

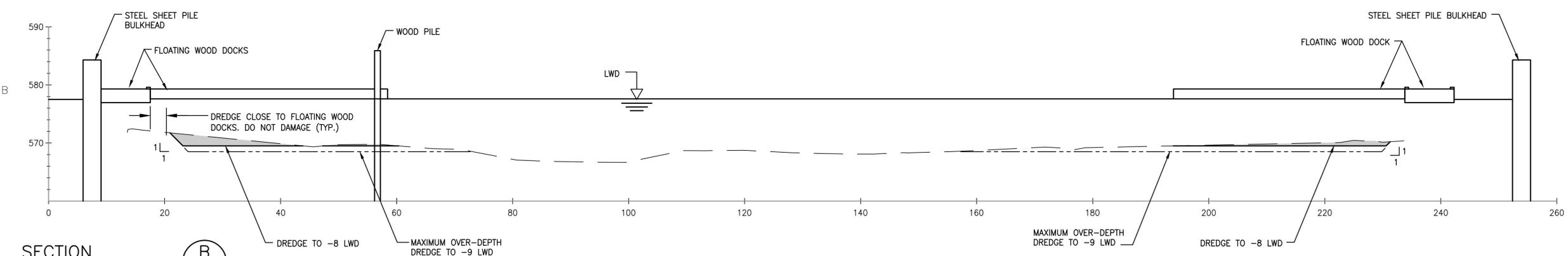
LEGEND

- - - - - EXISTING TOP OF SEDIMENT
- PROPOSED BASE DREDGE ELEVATION
- - - - - MAXIMUM OVER-DEPTH DREDGE

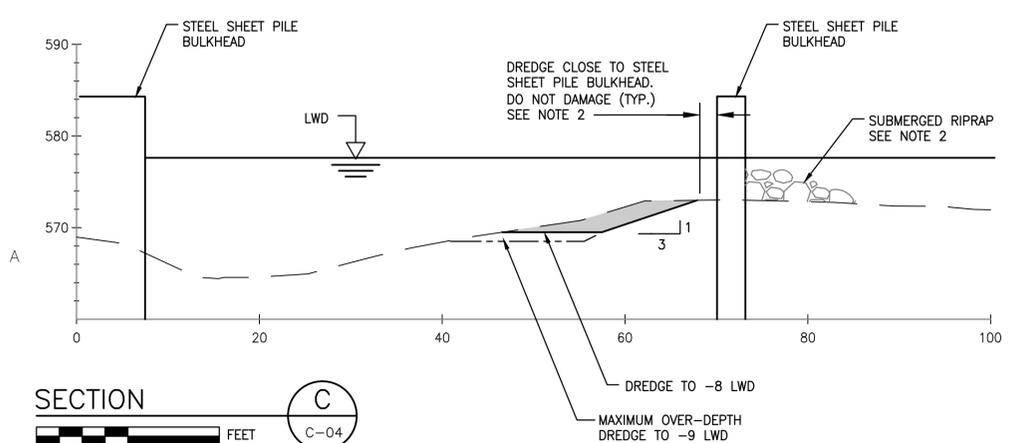
- NOTES:**
- CONTRACTOR SHALL USE METHODS AND EQUIPMENT THAT PROTECT THE PIER AND WALL STRUCTURES FROM DAMAGE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE.
 - SUBMERGED RIP RAP ENCOUNTERED ALONG PILE WALLS OR OTHER PROTECTED STRUCTURES WITHIN DELINEATED DREDGE AREAS SHALL NOT BE DISTURBED.
 - A SUBMERGED AERATION SYSTEM IS PRESENT THROUGHOUT THE MOORING AREA. CONTRACTOR SHALL TAKE NECESSARY STEPS TO ENSURE IT IS NOT DAMAGED AND REMAINS IN WORKING ORDER.



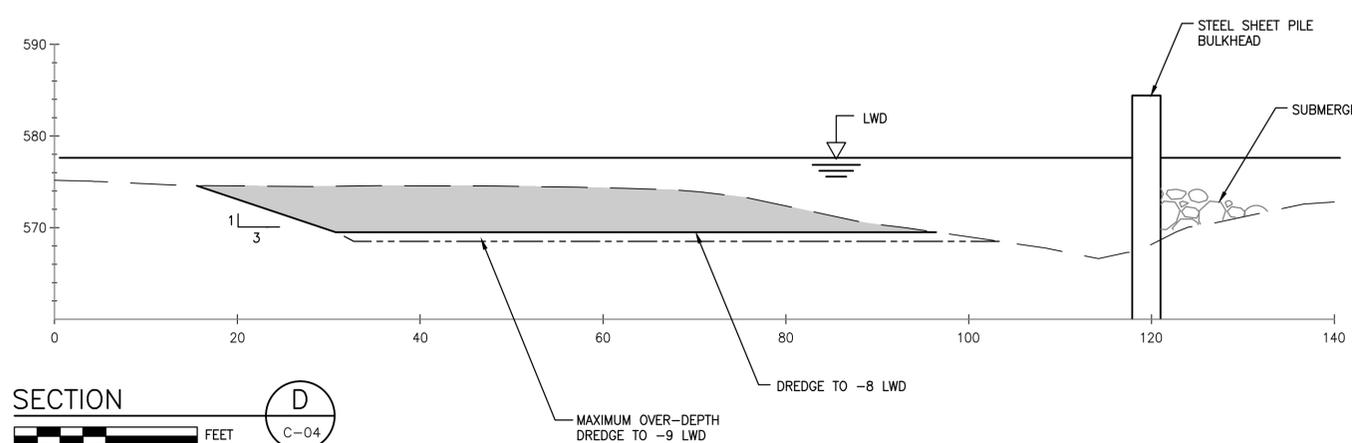
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 C-04
 FEET
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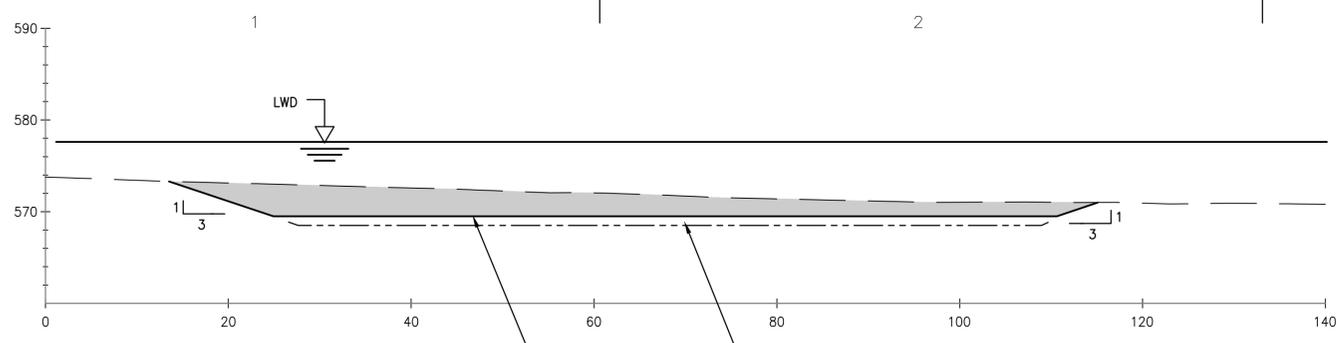
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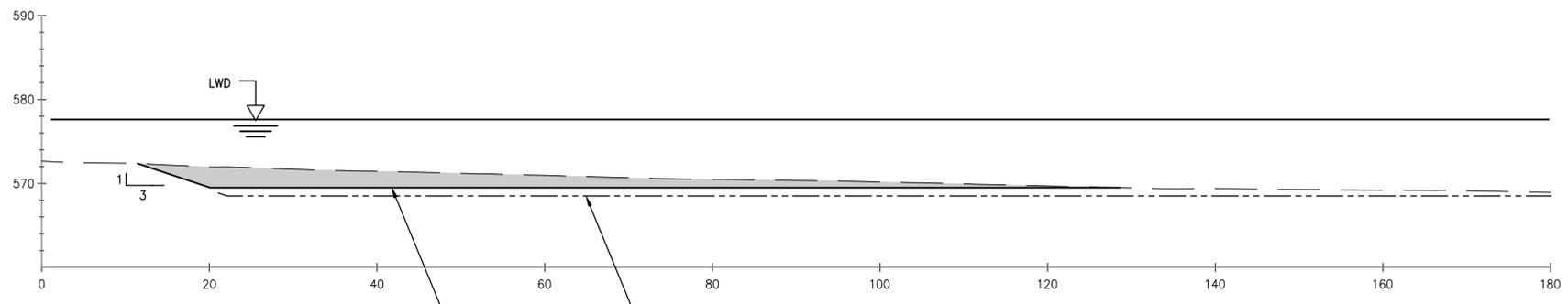
SECTION C
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 FEET
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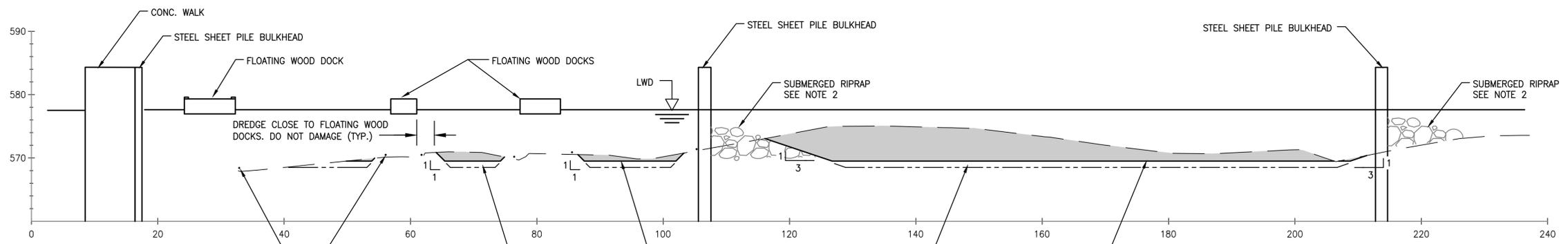
SECTION D
 C-04
 FEET
 0 10 20



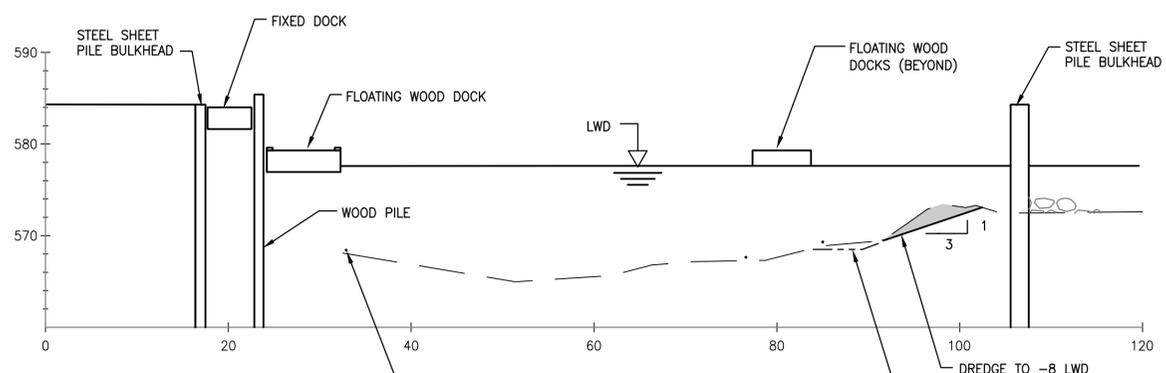
SECTION E
C-05



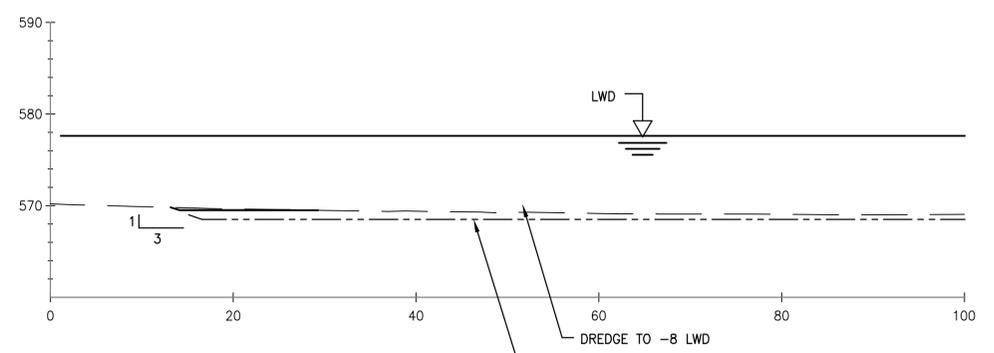
SECTION F
C-05



SECTION G
C-05



SECTION H
C-05

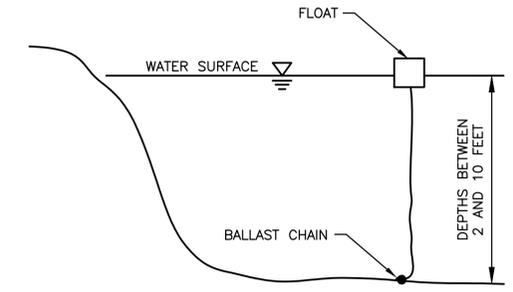


SECTION I
C-05

LEGEND

- EXISTING TOP OF SEDIMENT
- PROPOSED BASE DREDGE ELEVATION
- - - MAXIMUM OVER-DEPTH DREDGE

- NOTES:**
- CONTRACTOR SHALL USE METHODS AND EQUIPMENT THAT PROTECT THE PIER AND WALL STRUCTURES FROM DAMAGE. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE.
 - SUBMERGED RIP RAP ENCOUNTERED ALONG PILE WALLS OR OTHER PROTECTED STRUCTURES WITHIN DELINEATED DREDGE AREAS SHALL NOT BE DISTURBED.
 - A SUBMERGED AERATION SYSTEM IS PRESENT THROUGHOUT THE MOORING AREA. CONTRACTOR SHALL TAKE NECESSARY STEPS TO ENSURE IT IS NOT DAMAGED AND REMAINS IN WORKING ORDER.



TURBIDITY CURTAIN DETAIL
NOT TO SCALE

USCG CEU
CLEVELAND, OHIO
(216) 902-6200

CONSULTANTS
AECOM
558 North Main Street
Oshkosh, WI 54901

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: 60320378
CAD FILE NAME: C8179C05.DWG
DESIGNED BY: SJR
DRAWN BY: MJC
EDITED BY: MJC
CHECKED BY: TAP

SCALE: AS SHOWN PLOT SCALE: 1:1

SHEET TITLE
DREDGE APPROACH CHANNEL/MOORINGS
CG STATION CALUMET HARBOR
CHICAGO IL

CIVIL
DREDGE CROSS SECTIONS

REVIEWED BY: JAMES NICKS	REVIEWED BY: G.P. LODGE	REVIEWED BY: G.S. PLACZEK
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

P.R. CARROLL, CDR.
APPROVING OFFICER DATE

PROJECT NUMBER 5395630	DRAWING NUMBER 8179-D
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DISCIPLINE/SHT NO
C-05 SHEET 5 OF 5