NOTES

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3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON APRIL 5, 2013 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

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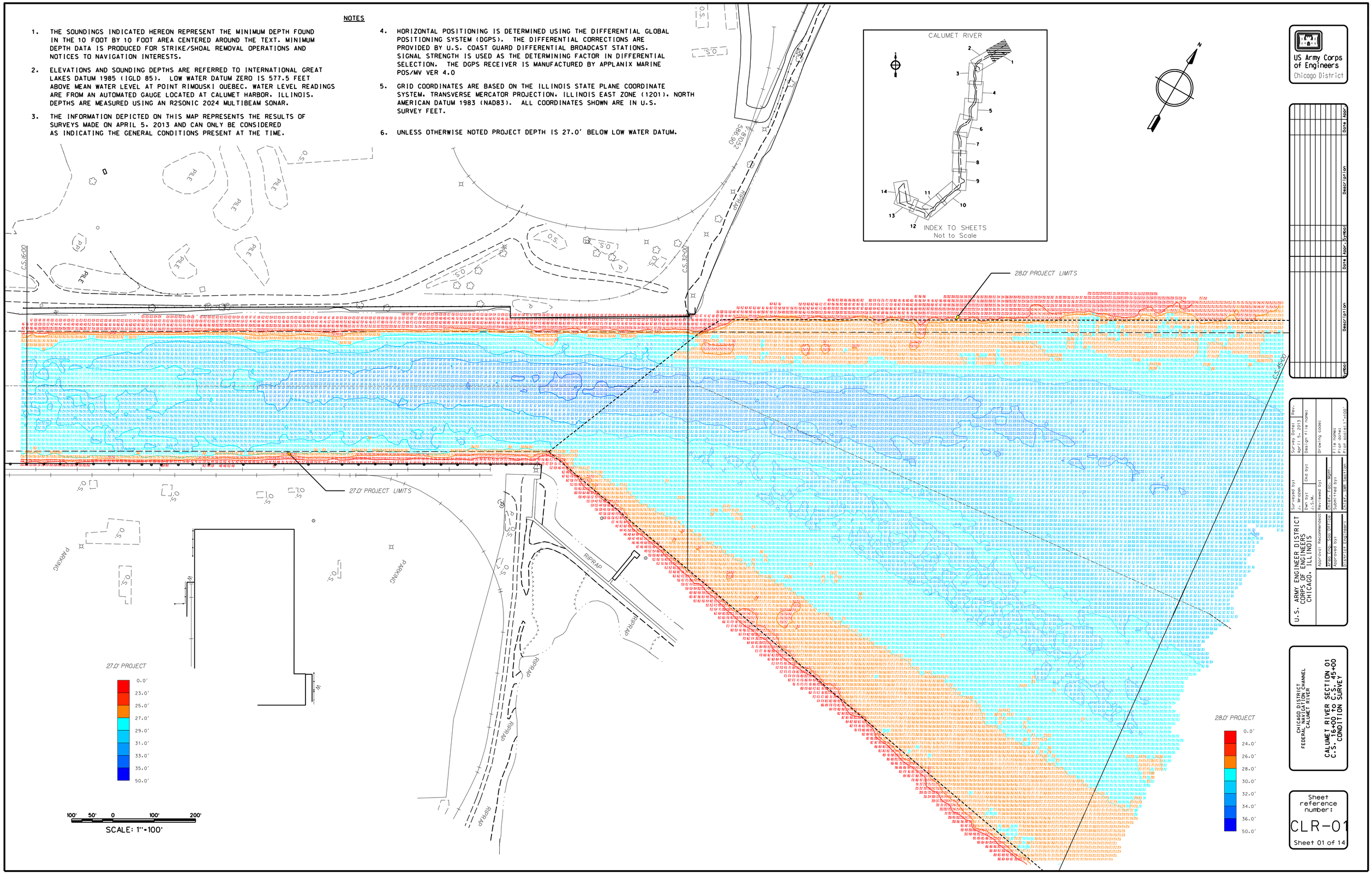
5. GRID COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, ILLINOIS EAST ZONE (1201), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.0' BELOW LOW WATER DATUM.



US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

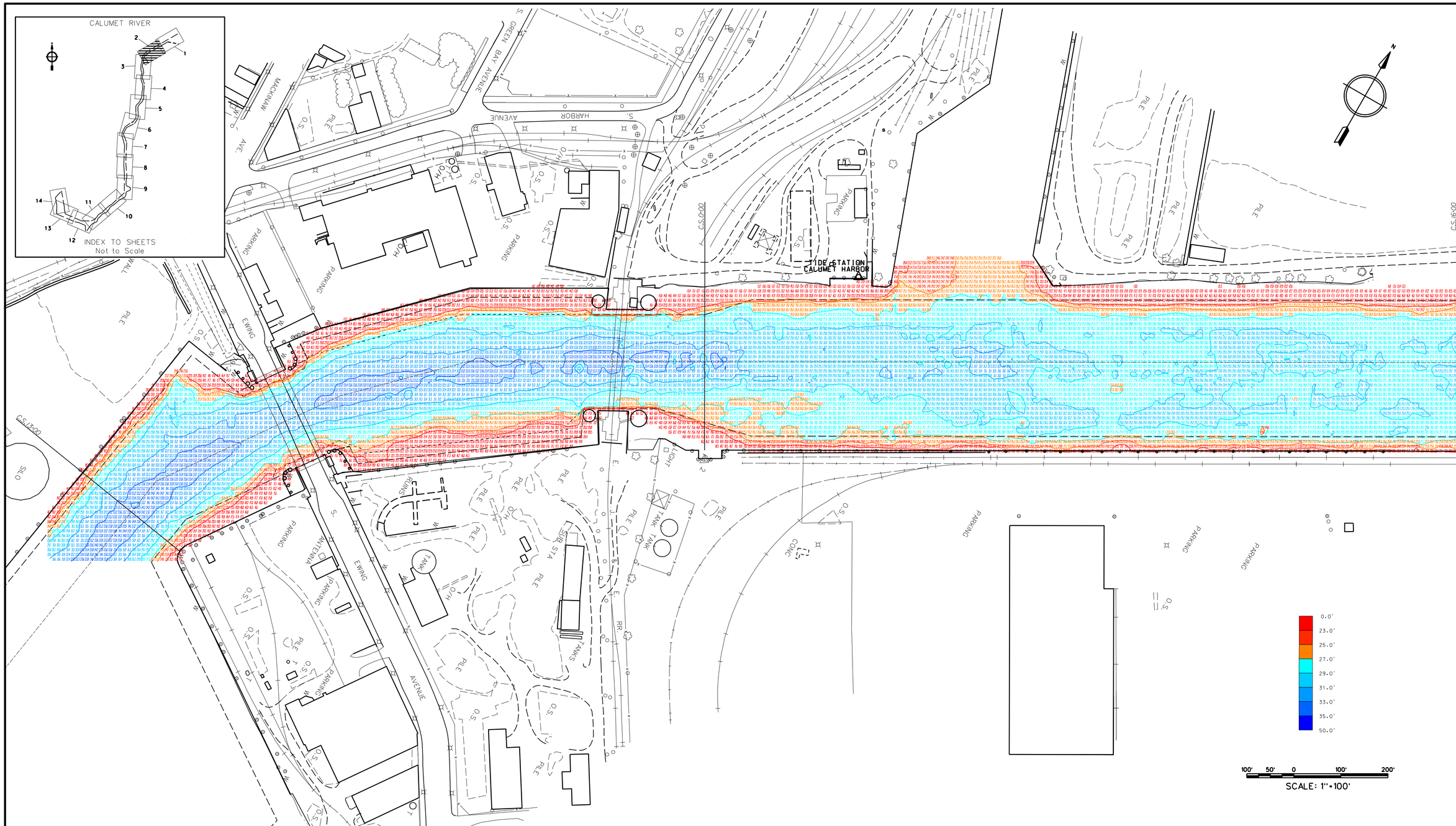
Surveyed by: J. Mrozek
Survey Date: April 5, 2013
Rev.
Design File name:
Drawing code:
Dwn by:
Ckd by:
Reviewed by:
Chief, Eng. Mgmt.
File name:
Plot date:
Plot scale: 1"=100'
Approved by:
Chief, Hydr. Section
Approved: Recommended:
Chief, Eng. Geo. Office
Chief, Hydr. Section
District Engineer

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 01
C.S. 16+00 TO C.S. 45+00
CONDITION SURVEY

Sheet reference number:
CLR-01
Sheet 01 of 14



US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
DETROIT, MICHIGAN

Surveyed by: J. Mrozek
Dwn by: J.S.
Ckd by:
Reviewed by:
Chief, Hydro. Mgmt.
Approved by: Acting Chief, Hydro. Mgmt.
Approved by: District Engineer
Survey Date: April 5, 2013
Rev.
Design file name:
Drawing code:
Chief, Hydro. Mgmt.
Chief, Hydro. Mgmt. Section
File name:
Plot date:
Plot scale: 1"=100'

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 02 CONDITION SURVEY

Sheet reference number:
CLR-02
Sheet 02 of 14

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.
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5. GRID COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, ILLINOIS EAST ZONE (1201). NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.0' BELOW LOW WATER DATUM.

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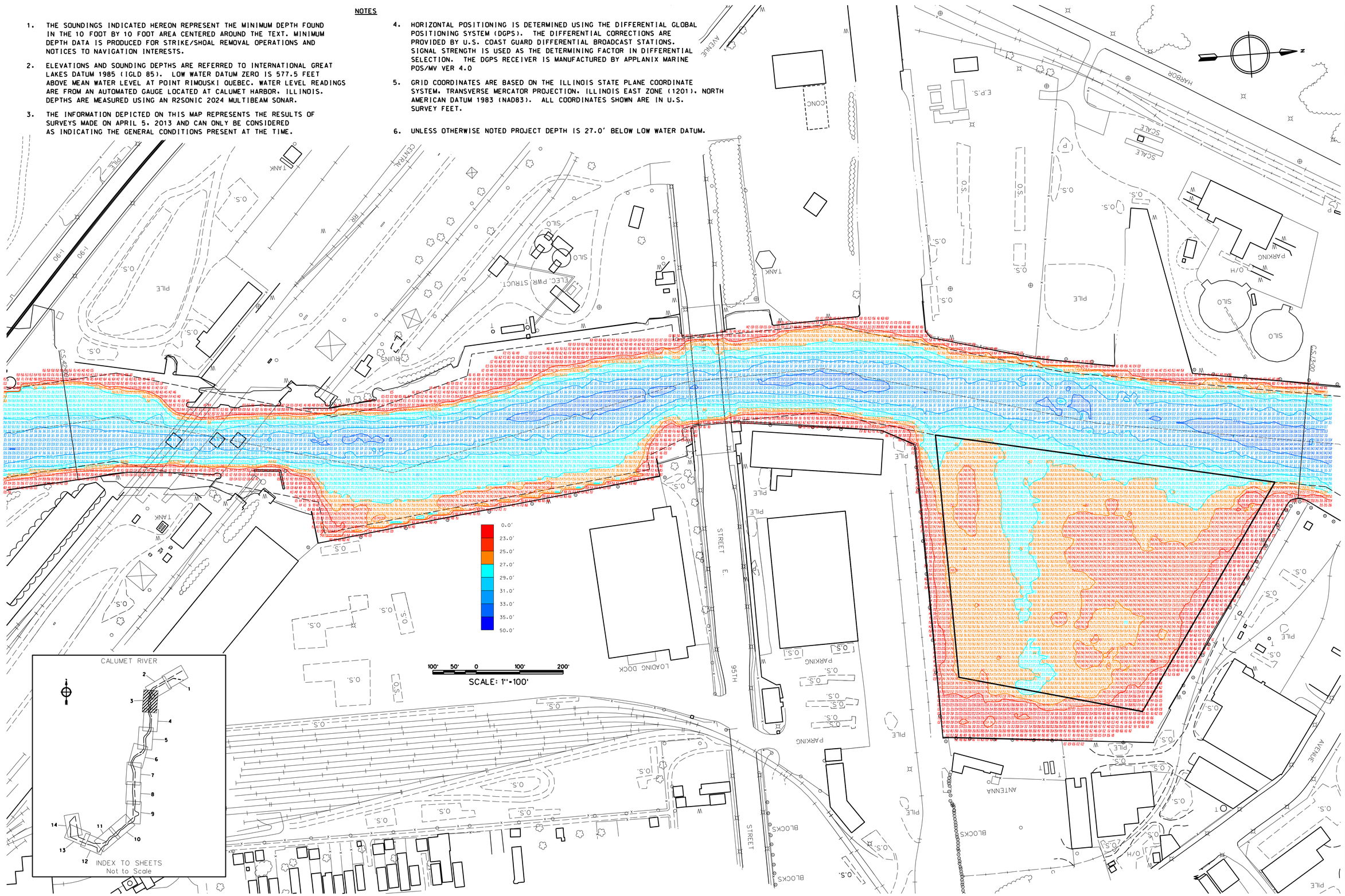
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.0' BELOW LOW WATER DATUM.



US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mrozek
Survey Date: April 5, 2013
Rev.
Drawn by: RA
Ckd by:
Design file name:
Reviewed by:
Drawing code:
Approval Recommended: Area Eng. Coord. Chief, Asc. Mgmt.
File name:
Plot date:
Approved by: District Engineer
Chief, Sup. Section
Scale: 1"=100'

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 03 CONDITION SURVEY

Sheet reference number:
CLR-03
Sheet 03 of 14

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.
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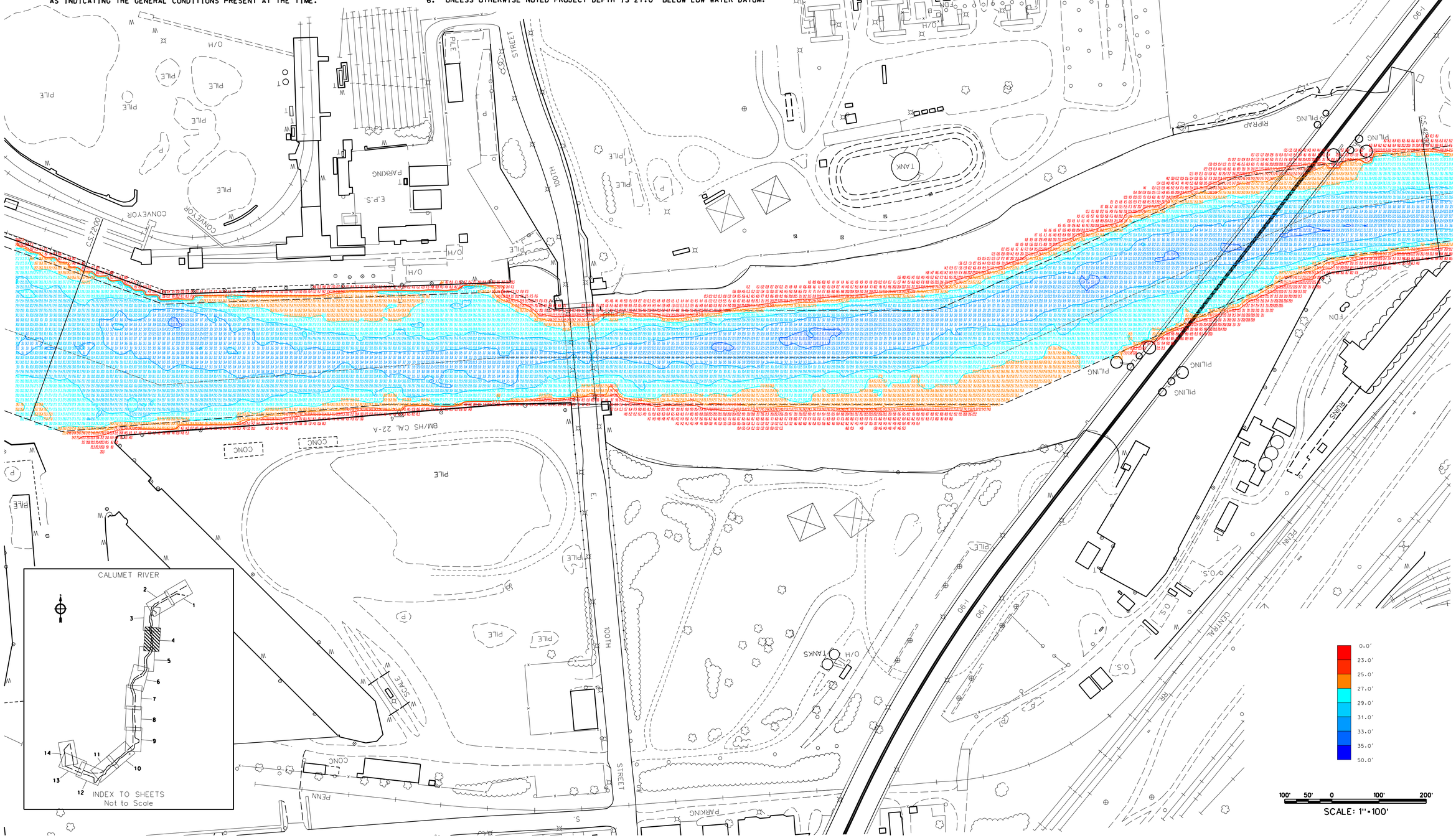

US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mrozek
Dwn by: J.S.M.
Ckd by:
Reviewed by:
Submitted by:
Survey Date: April 5, 2013
Design file name:
Drawing code:
File name:
Plot date:
Plot scale: 1"=100'

Approval Recommended:
Area Eng. Spa Office
Approved by:
District Engineer:
Chief, Fac. Mgmt.
Chief, SMR Section

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 04
CONDITION SURVEY

Sheet reference number:
CLR-04
Sheet 04 of 14

NOTES

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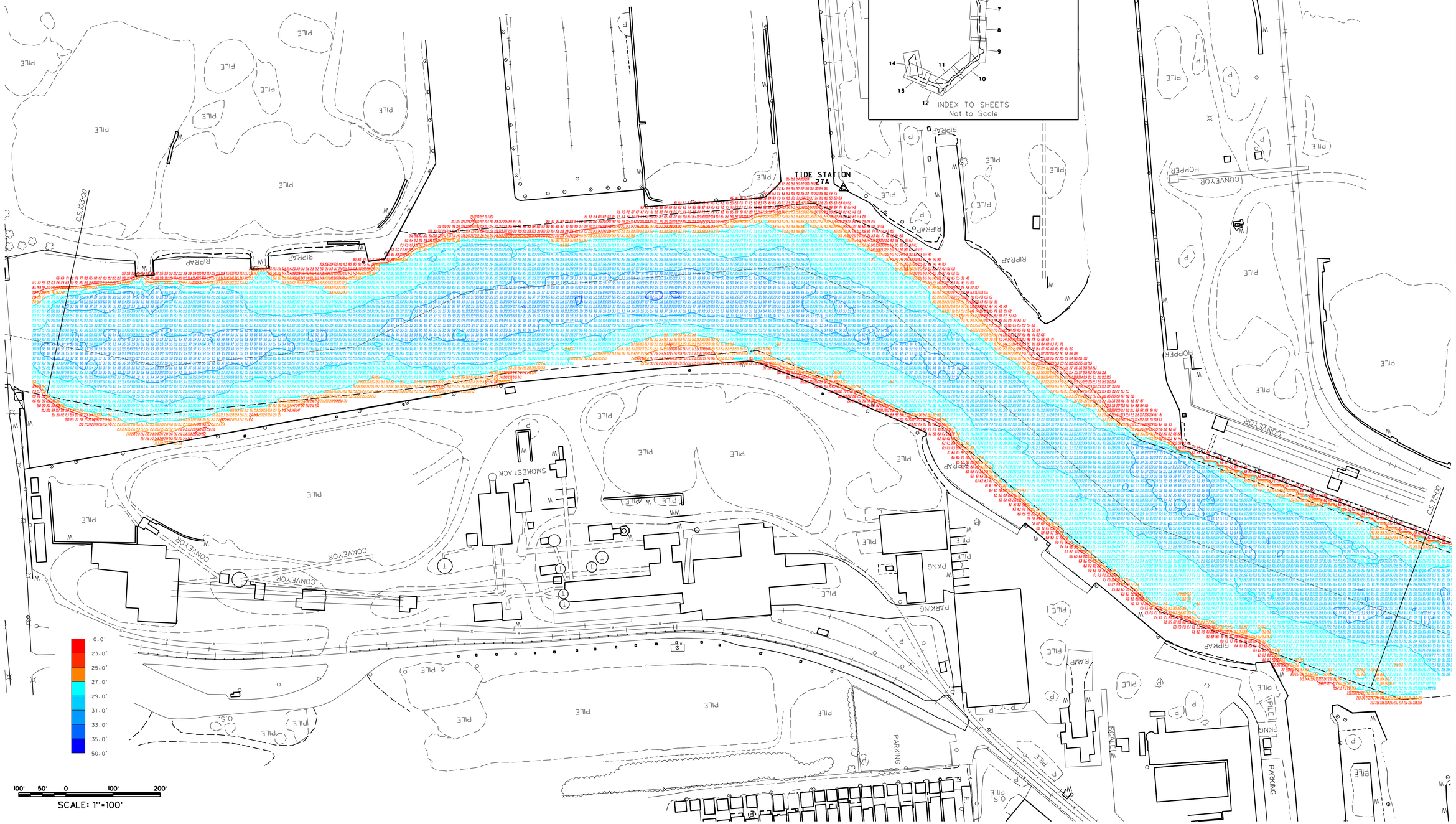


US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

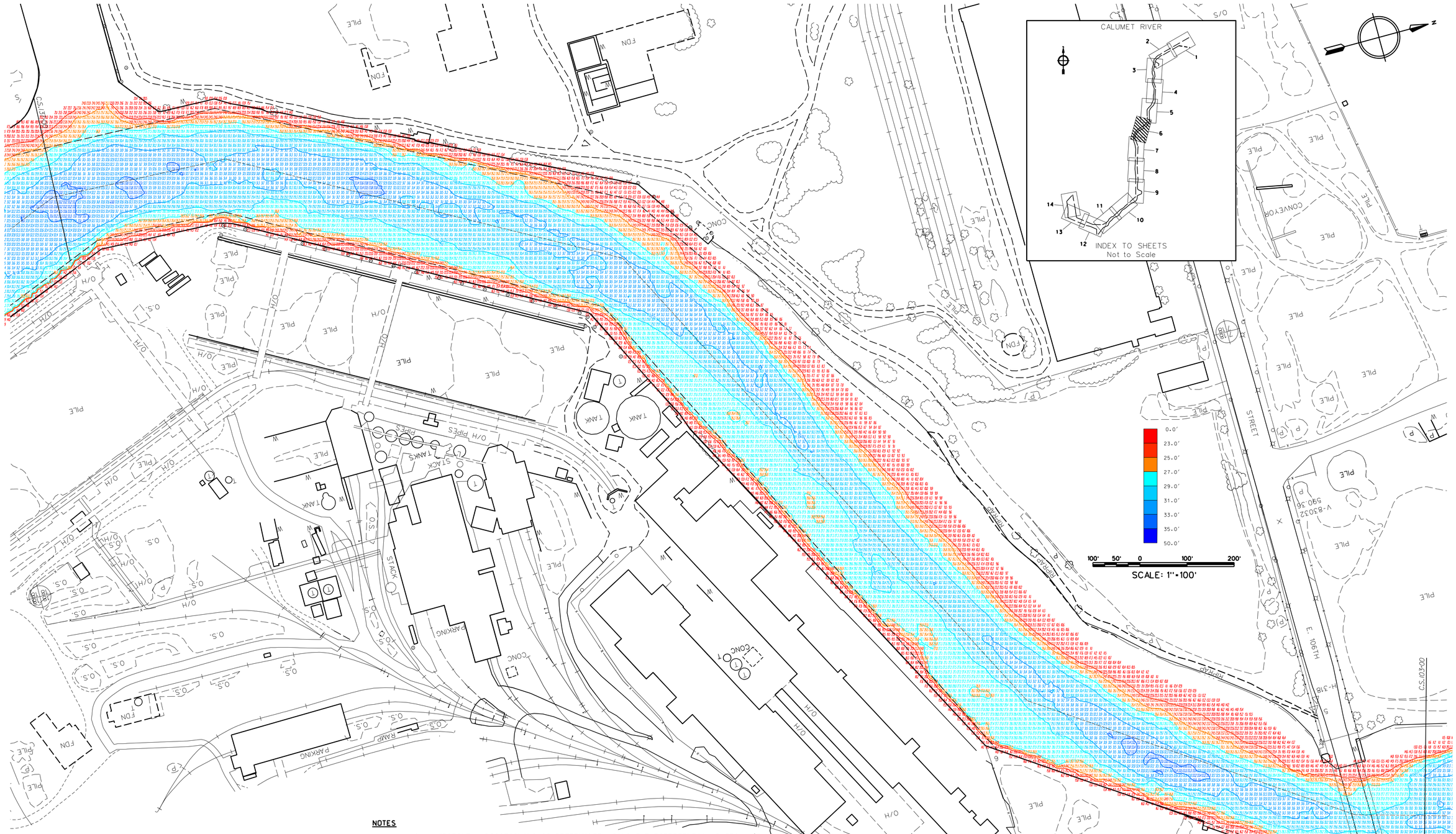
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mrozek
Survey Date: April 5, 2013
Rev.
Dwn by:
Ckd by:
Design File name:
Drawing code:
Approval Recommended by:
Chief, Eng. Geo Office
Chief, Ldc. Mgmt.
File name:
Plot date:
Plot scale: 1"=100'
Reviewed by:
Submitted by:
Approved by:
Chief, Sur Section
District Engineer

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 05 CONDITION SURVEY

Sheet reference number:
CLR-05
Sheet 05 of 14



NOTES

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US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Surveyed by: J. Mrozek
Drawn by: J. Ng
Checked by:
Reviewed by:
Area Eng. Coordinator:
Approved by:
District Engineer:
Approval Recommended:

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Survey Date: April 5, 2013
Rev.
Design File name:
Drawing code:
Chart Doc. Mgmt.
Scan Number:
File name:
Plot date:
Plot scale: 1"=100'

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 06 CONDITION SURVEY

Sheet reference number:
CLR-06
Sheet 06 of 14

NOTES

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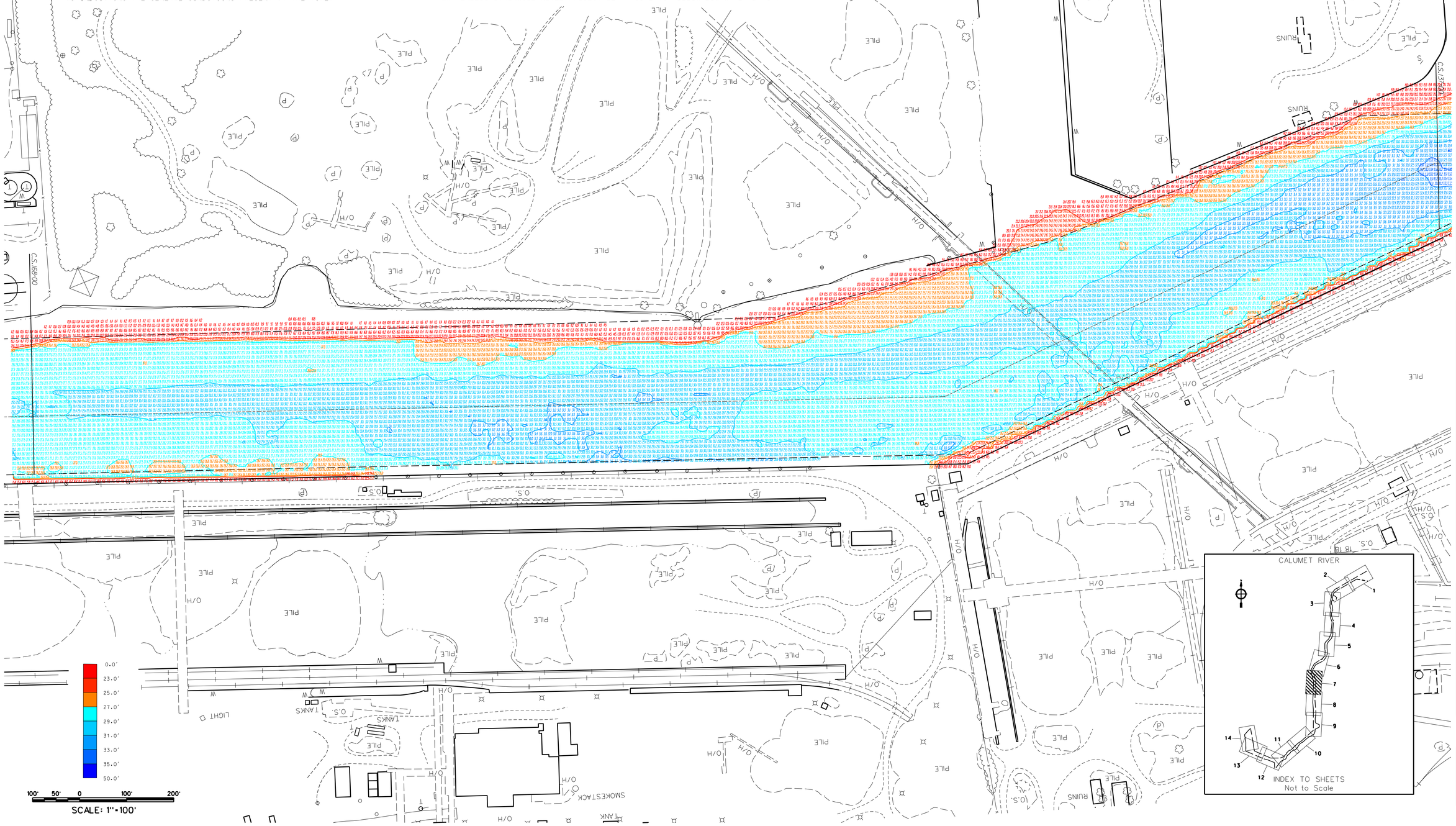

US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Survey Date: April 5, 2013
Design file name:
Drawing code:
File name:
Plot date:
Plot scale: 1"=100'

Surveyed by: J. Mrozek
Dwn by: J.S.M.
Ckd by:
Reviewed by:
Area Eng. Soc. Office
Approved by:
District Engineer:
Chief, Soc. Mgmt.
Submitted by:
Chief, SNR Section

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 07
CONDITION SURVEY

Sheet reference number:
CLR-07
Sheet 07 of 14

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

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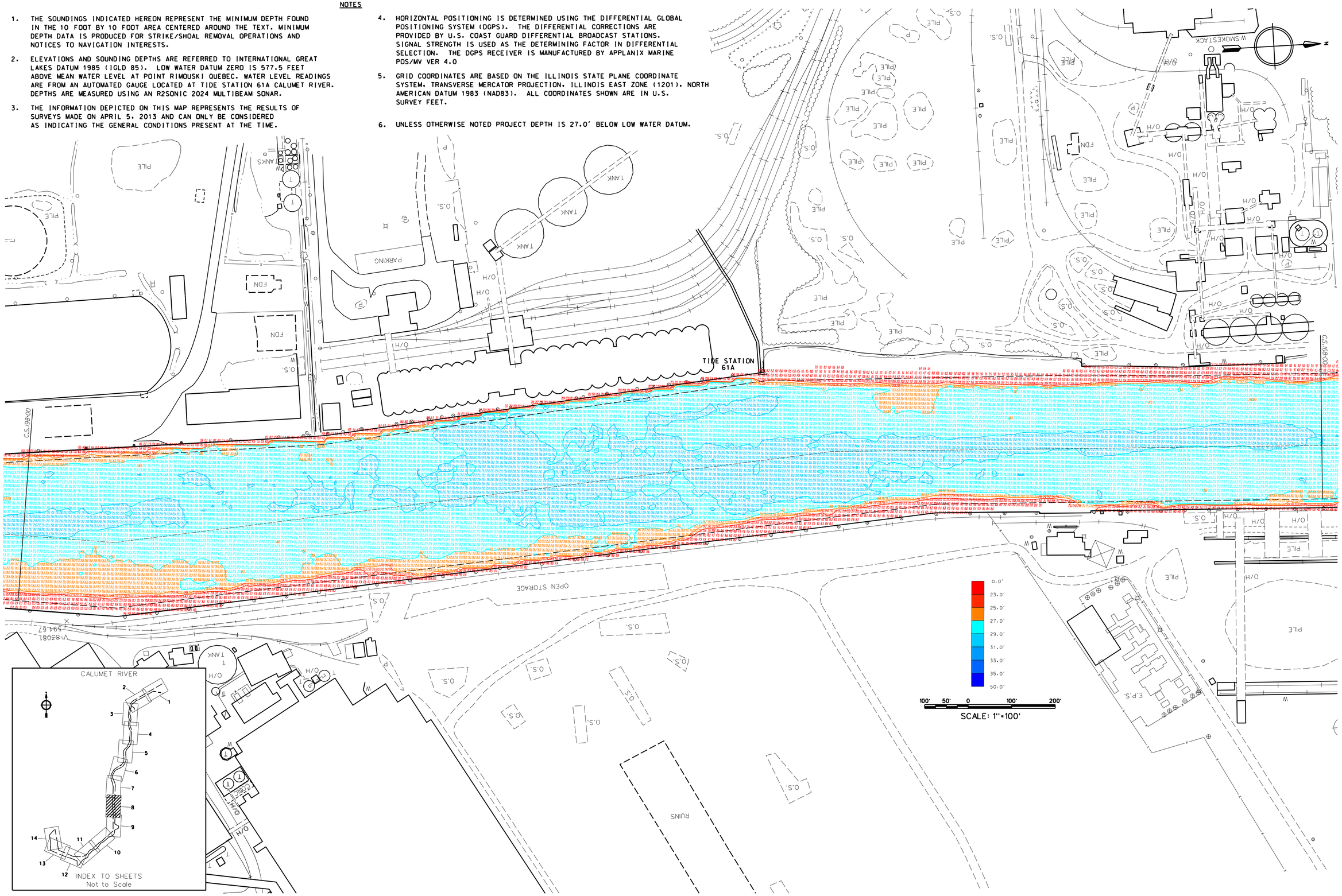

US Army Corps of Engineers
Chicago District

Symbol	Description	Date	App.	Symbol	Description	Date	App.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mecozek
Dwn by: M. Kaiser
Chd by:
Survey Date: April 5, 2013
Design File name:
Drawing code:
Rev.
Approval Recommended: Craig King, Chief Office
Approved by: District Engineer
Revised by:
Checked by: Chief, Hydrographic Surveys Section
File name:
Plot date:
Plot scale: 1"=100'

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 08
CONDITION SURVEY

Sheet reference number:
CLR-08
Sheet 08 of 14

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.
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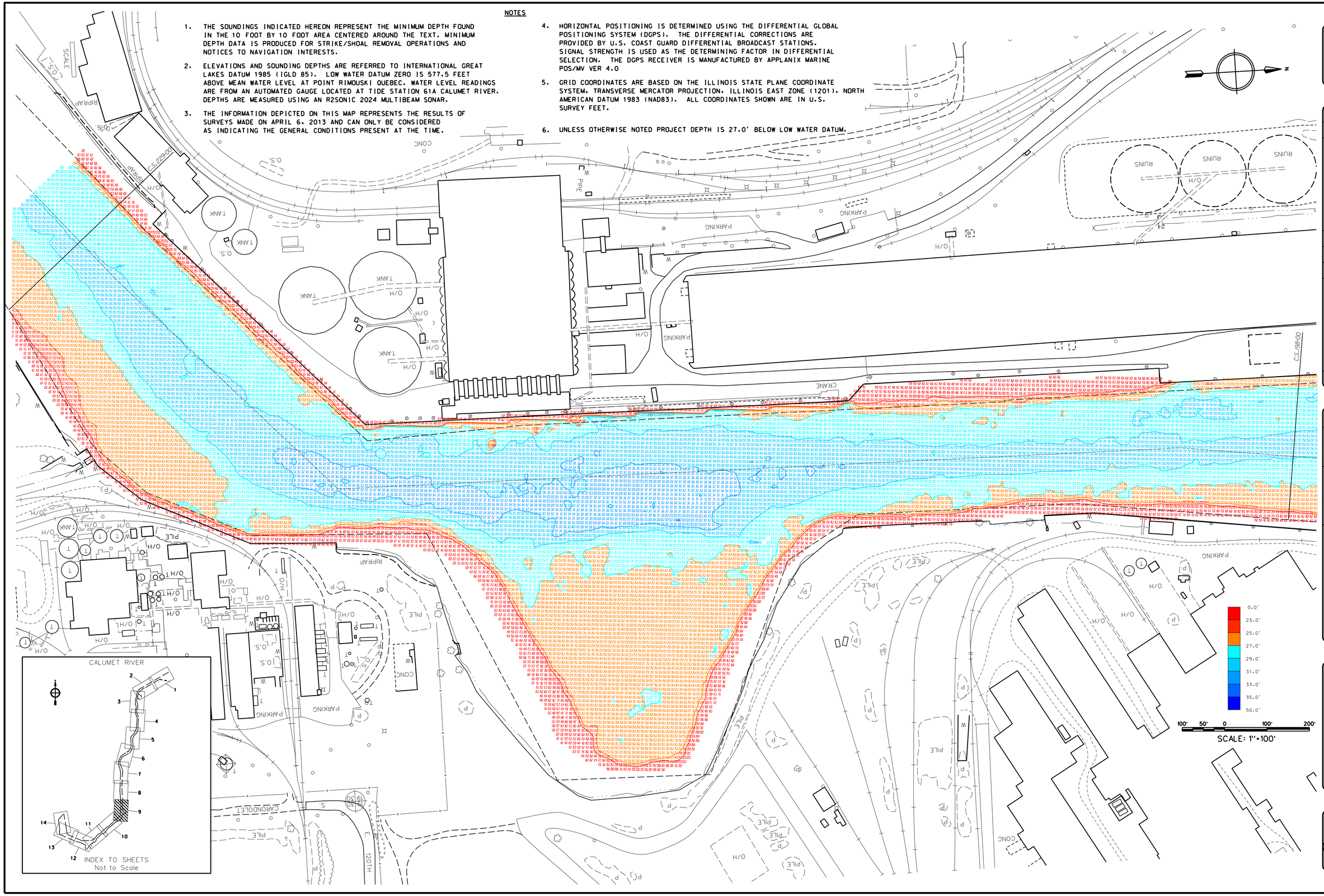

US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mrozek
Dwn by:
Ckd by:
Reviewed by:
Approval Recommended:
Approved by:
District Engineer:

Survey Date: April 6, 2013
Design file name:
Drawing code:
File name:
Plot date:
Plot scale: 1"=100'

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 09
CONDITION SURVEY

Sheet reference number:
CLR-09
Sheet 09 of 14

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

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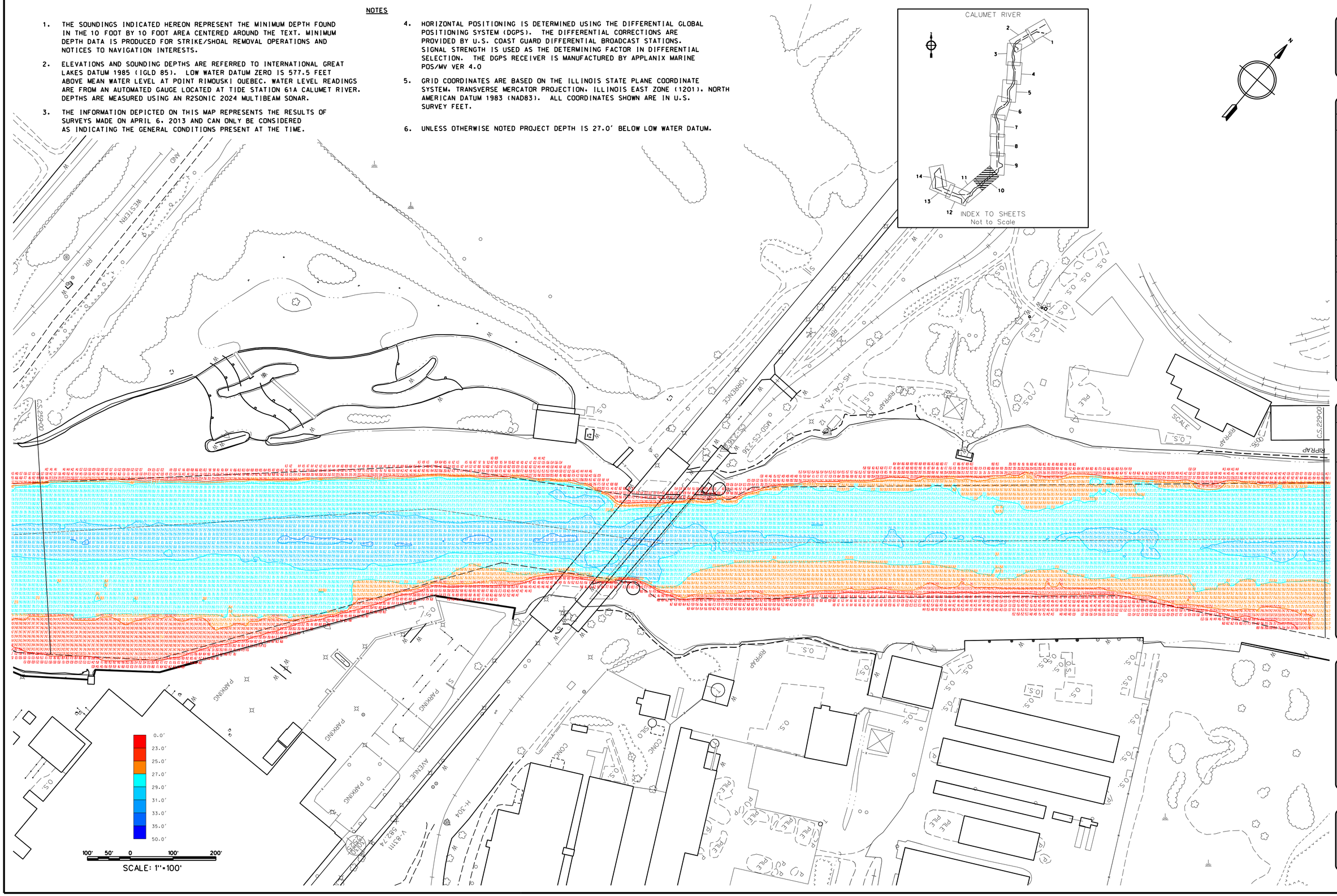
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.0' BELOW LOW WATER DATUM.



US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Survey Date: April 6, 2013
Rev.
Design file name:
Drawing code:
Surveyed by: J. Mrozek
Dwn by:
Ckd by:
Reviewed by:
Chief, Eng. Mgmt.
Chief, Ecol. Mgmt.
Chief, Hydr. Section
Approved by: Area Eng. Sec. Office
Approved: Recommended:
District Engineer

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 10
CONDITION SURVEY

Sheet reference number:
CLR-10
Sheet 10 of 14

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

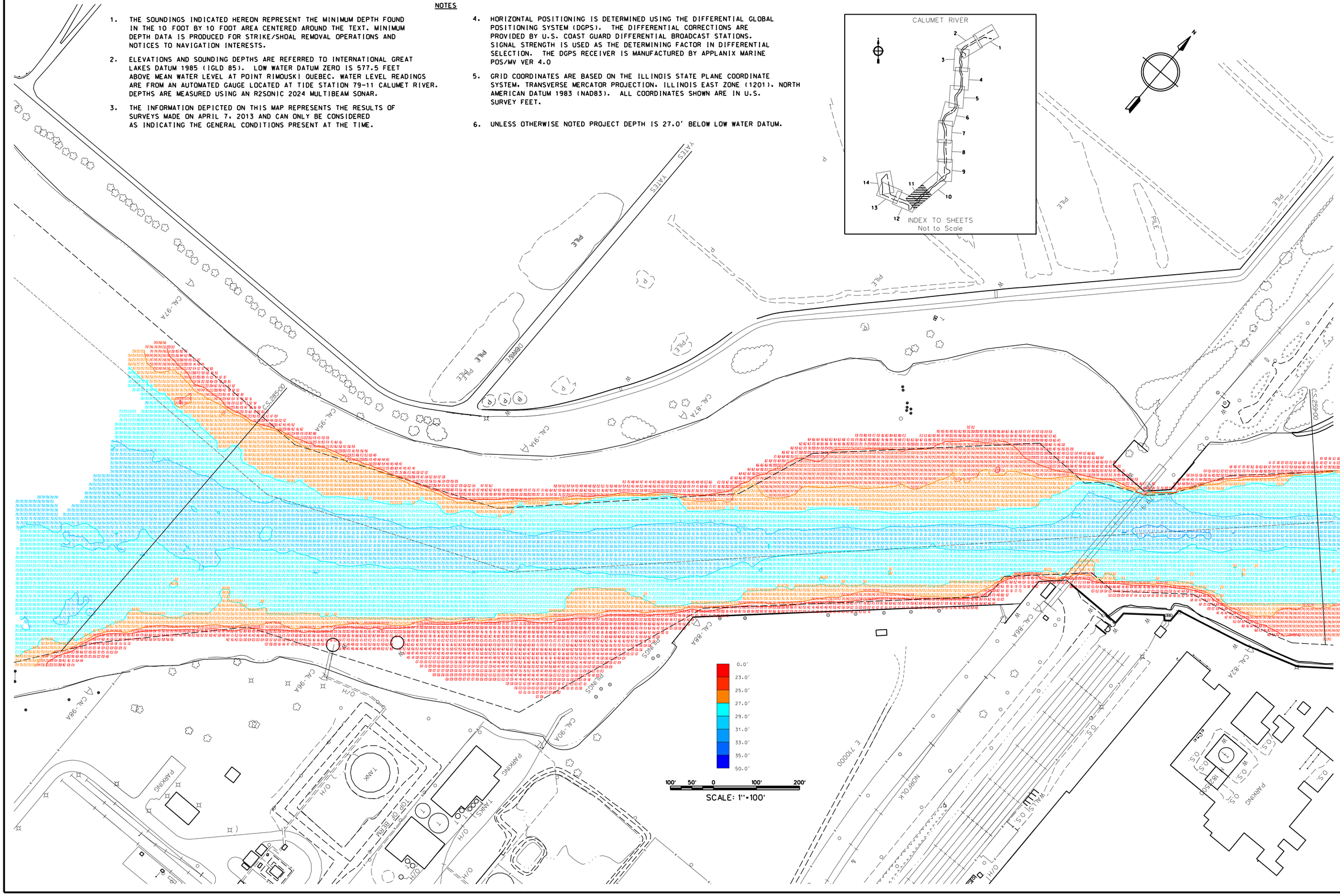
2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM ZERO IS 577.5 FEET ABOVE MEAN WATER LEVEL AT POINT RIMOUSKI QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT TIDE STATION 79-11 CALUMET RIVER. DEPTHS ARE MEASURED USING AN R2SONIC 2024 MULTIBEAM SONAR.

3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON APRIL 7, 2013 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

4. HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX MARINE POS/MV VER 4.0

5. GRID COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR PROJECTION, ILLINOIS EAST ZONE (1201), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.0' BELOW LOW WATER DATUM.



US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Survey Dated: April 7, 2013 | Rev.
Surveyed by: J. Wrobek
Drawn by: S. Ye
Checked by:
Reviewed by:
Approved by:
Approval Recommended:
Chief, Eng. Geo Office
District Engineer
Design File name:
Drawing code:
Chief, Geo. Mgmt.
Submitted by:
Chief, Geo. Section
File name:
Plot date:
Plot scale: 1"=100'

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 11 CONDITION SURVEY

Sheet reference number:
CLR-11
Sheet 11 of 14

NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

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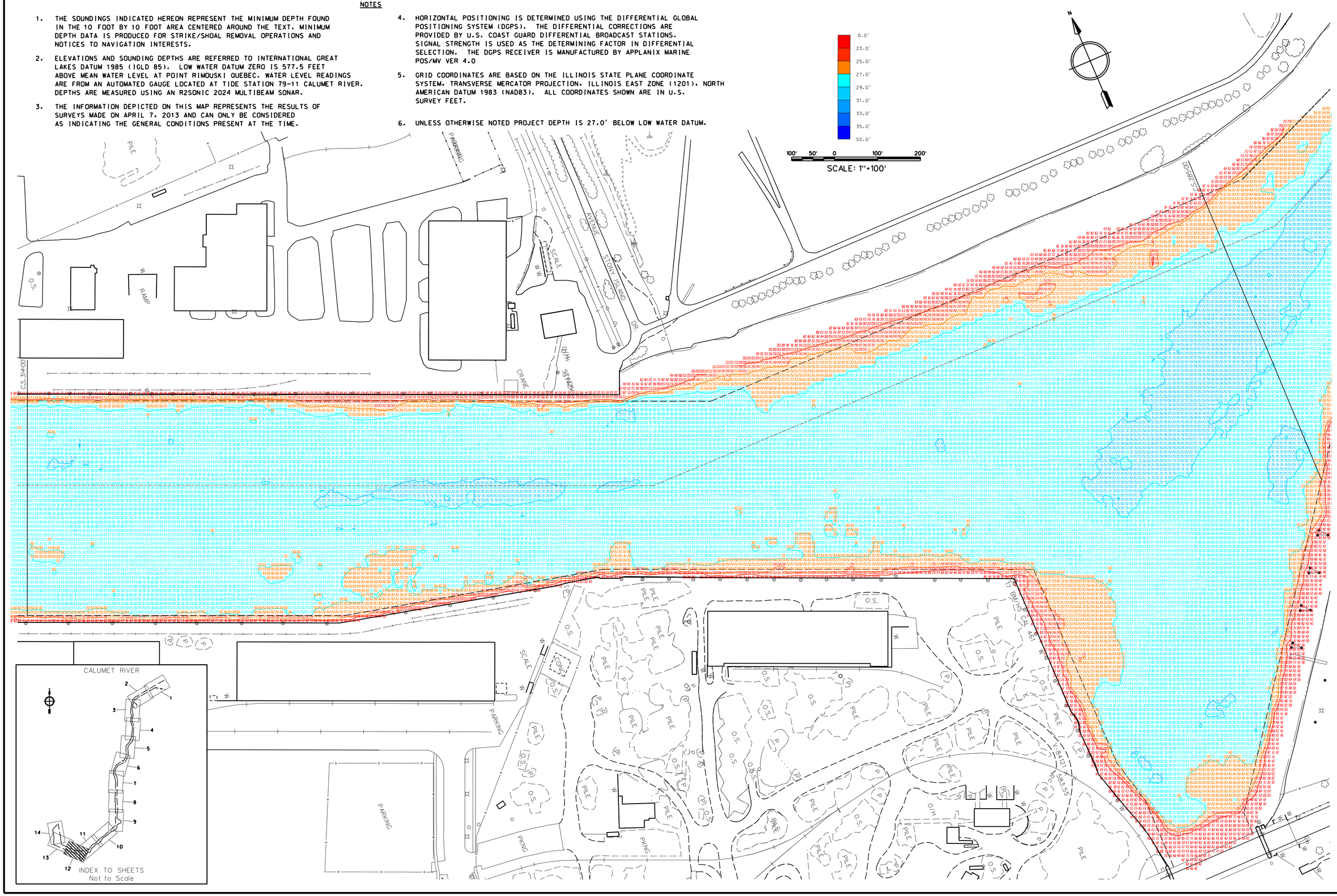
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.0' BELOW LOW WATER DATUM.



US Army Corps of Engineers
Chicago District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

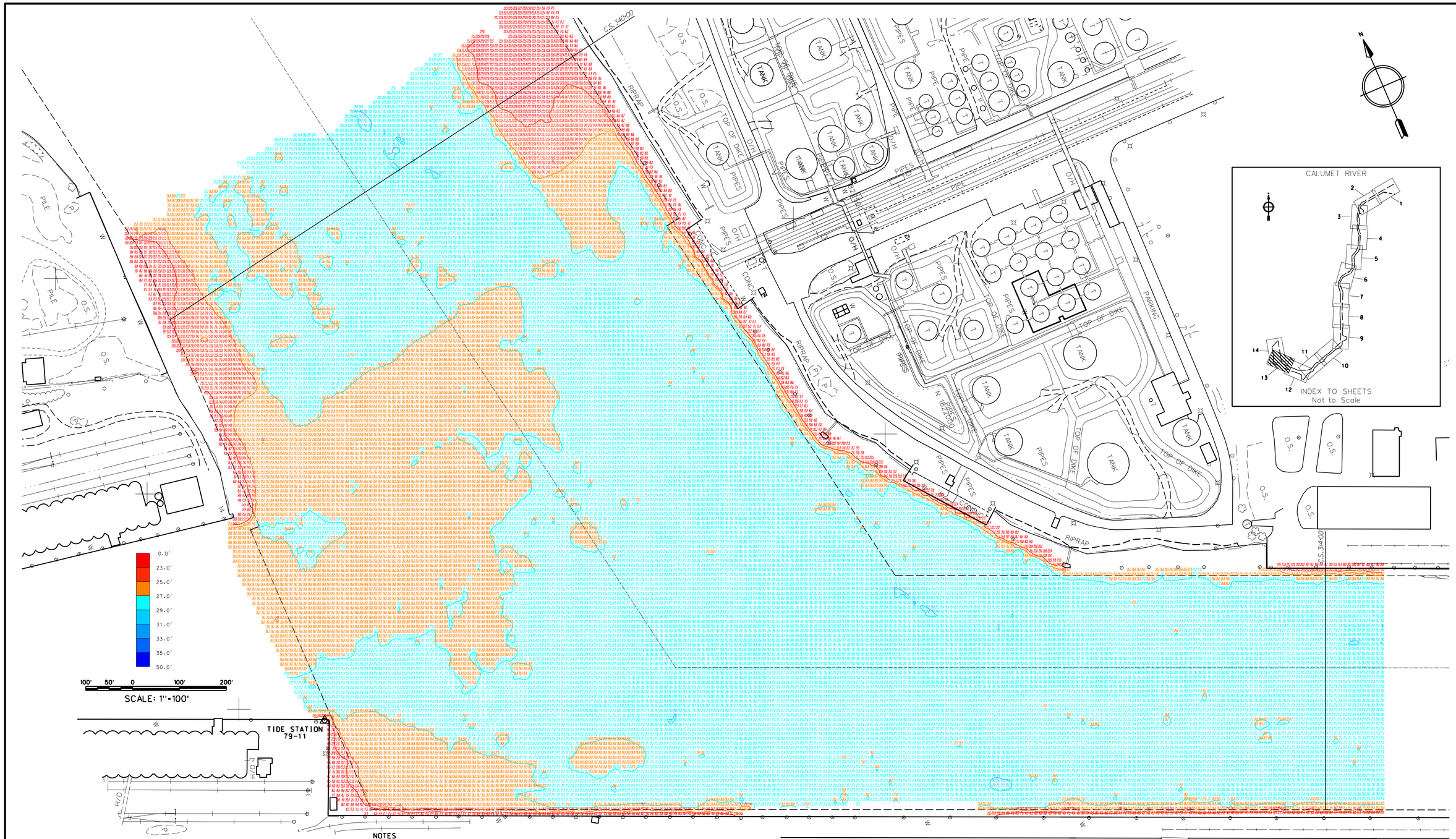
Surveyed by: J. Meczek
Dwn by: Dwn Date
Chd by: Chd Date
Reviewed by: Reviewed Date
Approved by: Approval Recommended
Chief, Fdn. Mgmt. Sec.
Chief, Hydr. Sec.
Chief, Tech. Sec.
District Engineer

Survey Dates: April 7, 2013
Rev.
Design File name:
Drawing code:
File name:
Plot date:
Plot scale: 1"=100'

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 12
CONDITION SURVEY

Sheet reference number:
CLR-12
Sheet 12 of 14



US Army Corps of Engineers
Chicago District

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mrozek
Dwn by: J.S.M.
Rev. Reviewed by: Chief, Ac. Mgmt.
Submitted by: Chief, SWR Section
Approved Recommended: Area Eng. Soo Office
Approved by: District Engineer
Survey Date: April 7, 2013
Design file name:
Drawing code:
File name:
Plot date:
Plot scale: 1"=100'
Rev.

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 13
CONDITION SURVEY

Sheet reference number:
CLR-13
Sheet 13 of 14

NOTES

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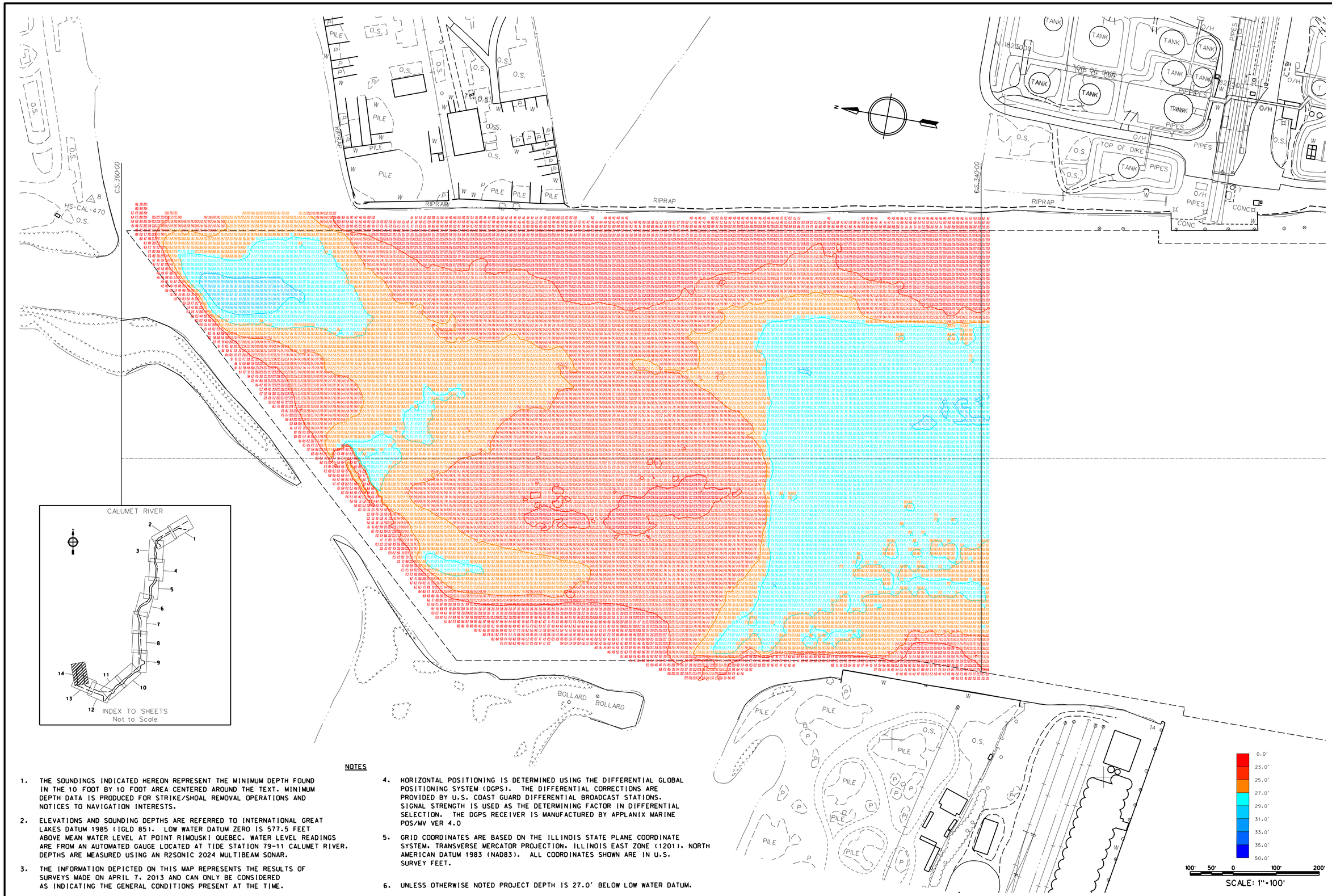

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US Army Corps of Engineers
Chicago District

Rev.	Description	Date	Appr.

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHICAGO, ILLINOIS

Surveyed by: J. Mrozek
Dwn by: J.S.M.
Ckd by:
Rev. Date: April 7, 2013
Design file name:
Drawing code:
Approval Recommended:
Approved by:
Chief, Eng. Soc. Office
Submitted by:
Chief, Sec. Mgmt.
File name:
Plot date:
Plot scale: 1"=100'
District Engineer:

CHICAGO DISTRICT
FEDERAL NAVIGATION CHANNEL
CALUMET RIVER

CALUMET RIVER SECTION 14
CONDITION SURVEY

Sheet reference number:
CLR-14
Sheet 14 of 14