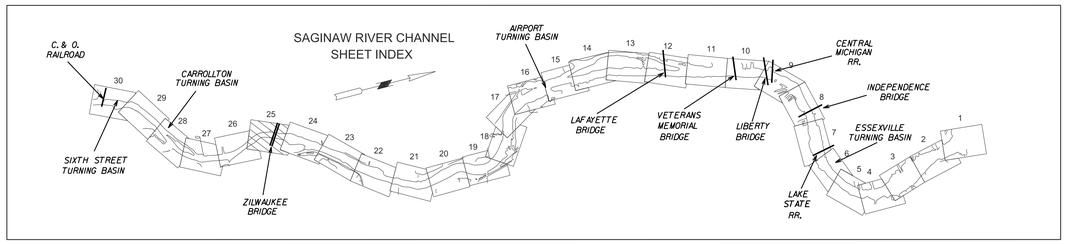
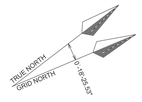




GRID SCALE FACTOR: 0.999960956
GRID DIST. DIVIDED BY GRID SCALE FACTOR = GROUND DIST.

N 723,000 N 723,500 N 724,000

E 13,242,500 E 13,243,000 E 13,243,500 E 13,244,000 E 13,244,500 E 13,245,000

N 721,500 N 722,000 N 722,500

SUB. - STATION
GRAND TRUNK R.R.
WATER
WALL
SLAB
CONSUMERS POWER CO.
PILE
C.S. 750+00
C.S. 760+00
C.S. 770+00
ZILWAUKEE BRIDGE
I - 75
CLTP 86
CL 32
CLTP 83
CLTP 88
CLTP 90
CL 33
CLTP 88.5
CL 34
CLTP 87
MATCH SHEET 24
MATCH SHEET 26
PROJECT DEPTH 22.0 FT
ZILWAUKEE CITY PARK
BOAT RAMP
FLOW
I-75 TOWER
SUBMARINE CABLE
28.5 FT. BELOW L.W.D.
APPROX. LOCATION
SAGINAW ASPHALT
WEST STONE DOCK
conc

CENTER LINE T.P.

T.P.	EAST X	NORTH Y
32	13,243,942.07	723,124.80
33	13,243,558.91	722,033.41
34	13,243,574.41	721,432.62

CHANNEL LINE T.P.

T.P.	EAST X	NORTH Y
83	13,244,034.63	723,086.58
85	13,243,659.35	722,017.61
86	13,243,849.50	723,163.02
87	13,243,673.87	721,454.58
88	13,243,382.86	721,833.62
90	13,243,372.34	721,647.47

HORIZONTAL CONTROL

- THIRD ORDER
- LESS THAN THIRD ORDER
- THIRD ORDER & BENCHMARK
- VALUE UNKNOWN

VERTICAL CONTROL

- BENCHMARKS

NOTES:

1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.

2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:
HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.

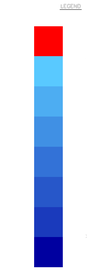
3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL WHEELER EMPLOYING THE FOLLOWING COMPONENTS:

POSITIONING: APPLANIX POS-MV4 W/VRS-RTK OR MARINESTAR G2+
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2 SONIC 2024
SOFTWARE: HYPACK 2018

4) WATER LEVELS USED WERE REFERENCED TO TBM ZILL RAMP AND TBM FARM.

5) THE SOUNDINGS INDICATED HEREON ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10 FOOT BY 10 FOOT AREA CENTERED ON THE TEXT, DERIVED FROM A 1 FOOT BY 1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS..

LEGEND



22.0 ft. PROJECT DEPTH CONTOUR

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION

SURVEYED BY: BR, DM
DRAWN BY: TW
SUBMITTED BY: Chaisson & Leonard
SCALE: 1" = 100'
SIZE: ANSI E
DATE OF SURVEY: 05 AUG 2019
SOLICITATION NO.:
CONTRACT NO.:
FOR CLIENT USE ONLY
FILE NAME:
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
477 MICHIGAN AVE
DETROIT, MI 48226

DETROIT AREA OFFICE
6309 WEST JEFFERSON AVE
DETROIT, MI 48209

SAGINAW RIVER
MICHIGAN
POST-DREDGE SURVEY
AUGUST 2019

SHEET IDENTIFICATION

SHEET 25 OF 30