CHANNEL LINE T.P.		
T.P.	EAST X	NORTH Y
49	13,246,052.40	754,204.05
49A	13,245,981.35	753,802.14
54	13,245,794.80	754,016.48

CENTER LINE T.P.		
T.P.	EAST X	NORTH Y
17	13,245,893.94	753,999.92

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, 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 LAUNCH: 3053 EMPLOYING THE FOLLOWING COMPONENTS:
POSITIONING: APPLANIX POS-MVA W/DGPS.
MOTION COMPENSATION: APPLANIX POS-MVA
SONAR: ODOM CH-100
SOFTWARE: HYPACK 2013

4) WATER LEVELS USED WERE REFERENCED TO TBM CASS RAMP (SHEET 14).

LEGEND

- 26.0'
- 25.0'
- 24.0'
- 23.0'
- 22.0'
- 21.0'
- 20.0'
- 19.0'
- 18.0'

22.0 ft. PROJECT DEPTH CONTOUR

US ARMY CORPS OF ENGINEERS DETROIT DISTRICT

UNITED STATES ARMY CORPS OF ENGINEERS
DETROIT AREA OFFICE, DETROIT, MICHIGAN

CONDITION SURVEY
SAGINAW RIVER, MI

CS 357+00 TO CS 390+00

DRAWN BY: D.E.H.

CHECKED BY: C.V.L.

DATE OF SURVEY: 06 JULY 2016

100' 0' 100' 200'

SCALE 1" = 100'

SHEET 13 OF 30