

CHANNEL LINE T.P.			
T.P.	EAST	NORTH	
X	Y		
49	13,246,092.40	754,204.05	
49A	13,245,981.35	753,802.14	
54	13,245,794.80	754,016.48	

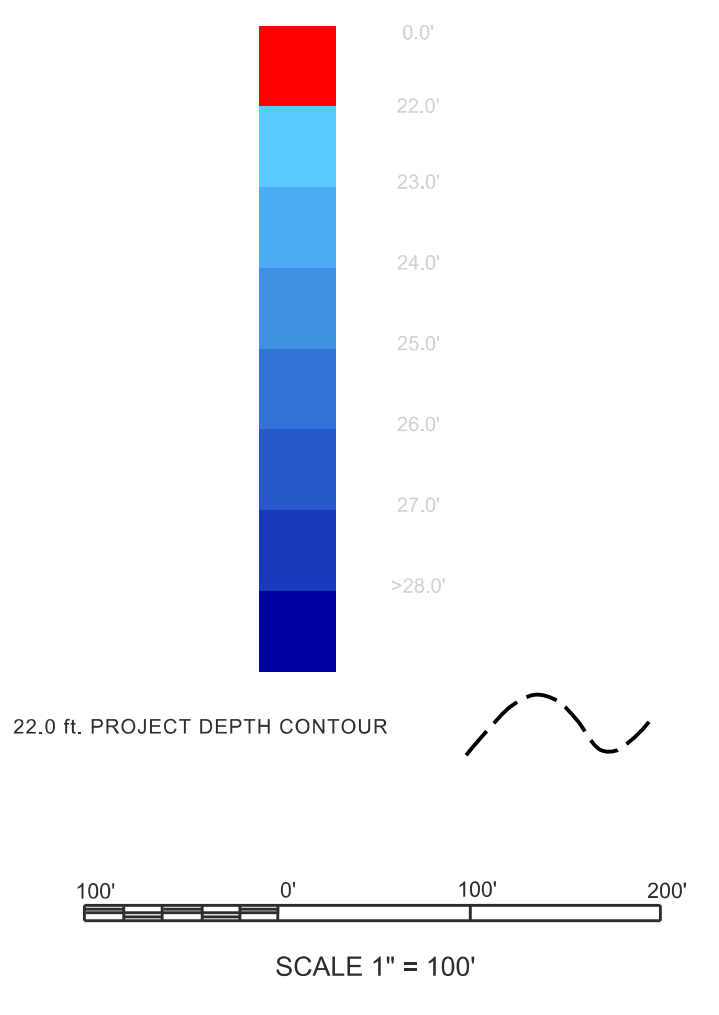
  

CENTER LINE T.P.			
T.P.	EAST	NORTH	
X	Y		
17	13,245,893.94	753,999.92	

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 #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 LAUNCH 3053 EMPLOYING THE FOLLOWING COMPONENTS:  
POSITIONING: APPLANIX POS-MV4 W/DGPS  
MOTION COMPENSATION: APPLANIX POS-MV4  
SONAR: ODOM CV-300  
SOFTWARE: HYPACK 2015
- 4) WATER LEVELS USED WERE REFERENCED TO TBM CASS RAMP (SHEET 14).

NO.	DESCRIPTION	DATE	ISSUE	STATUS

DESIGNED BY:	DATE:
DRAWN BY:	SCALE:
CHECKED BY:	PROJECT NO.:
APPROVED BY:	FILE NUMBER:
PROJECT NAME:	DATE:
PROJECT LOCATION:	STATUS:

SAGINAW RIVER  
MICHIGAN  
CONDITION OF CHANNEL  
APRIL 2018

SHEET IDENTIFICATION  
SHEET 13 OF 30