



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.  
L.W.D. = 577.5' UNLESS OTHERWISE NOTED.
- 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL WHEELER EMPLOYING THE FOLLOWING COMPONENTS:  
  
POSITIONING: APPLIXNX POS-5M4 WVR5-RTK OR MARINESTAR G2+  
MOTION COMPENSATION: APPLIXNX POS-5M4  
SONAR: R2 SONIC 2024  
SOFTWARE: HYPACK 2018
- 4) WATER LEVELS USED WERE REFERENCED TO TBM ZILL RAMP AND TBM BLOCK.
- 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 AVAILABLE FOR STRIKE/SWALLOW REMOVE OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

U.S. ARMY CORPS OF ENGINEERS		SURVEYED BY:		DATE OF SURVEY:	
DETROIT DISTRICT		BIC DM		10 AUGUST 2019	
477 MICHIGAN AVE		DWN BY:		SOLICITATION NO.:	
DETROIT, MI 48226		NR			
		SUBMITTED BY:		CONTRACT NO.:	
		Christopher V. Lohman			
DETROIT AREA OFFICE		PLOT SCALE:		FILE NUMBER:	
6309 WEST JEFFERSON AVE		1" = 100'		10 AUGUST 2019	
DETROIT, MI 48209		SIZE:		FILE NAME:	
		8" x 11"			

**SAGINAW RIVER  
MICHIGAN**

**POST-DREDGE SURVEY  
AUGUST 2019**

## SHEET IDENTIFICATION