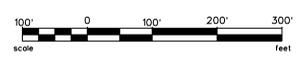


- NOTES:**
- GAGES USED WERE REFERENCED FROM GAGE BOARD SET ON PILING AT THE MOUTH OF THE BLACK RIVER ON THE NORTH SIDE NEAR AN OLD RAILROAD TRESTLE
  - POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838, LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ, 200 BPS
  - TRANSDUCER FREQUENCY USED TO MEASURE DEPTH DATA WAS 208 KHZ AND THE BEAM ANGLE WAS 3.0 DEGREES.

6.0 FT. CONTOUR



**LEGEND:**

- CHANNEL LIMITS
- UNDERGROUND LINE
- SHORE LINE S/L

- NOTES:**
- THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD 83), US FOOT.

**LEGEND**

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THE TIME.

**LOW WATER DATUM**

ELEVATIONS AND PROJECT DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM, (1985) HIGH THE MOUTH OF THE BLACK RIVER AT PORT HURON, MICHIGAN IS 576.2 FT. ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC.

**GRID COORDINATES**

GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE (2113), LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM.

**DIRECTIONS**

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

**PROJECT DEPTHS**

PROJECT DEPTHS ARE AS INDICATED ABOVE.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY FRED LEECH, PARTY CHIEF, ABOARD THE USACOE SURVEY LAUNCH 3043.

**AUTOMATED EQUIPMENT USED**

POSITIONING:	STARLINK DGPS
DATA PROCESSOR:	DELL PC
SOFTWARE:	COASTAL OCEANOGRAPHICS
PLOTTER:	ENCAD, CADJET 2
SONIC SOUNDER:	INNERSPACE 448

**CONTROL POINTS (G.P.S.)**

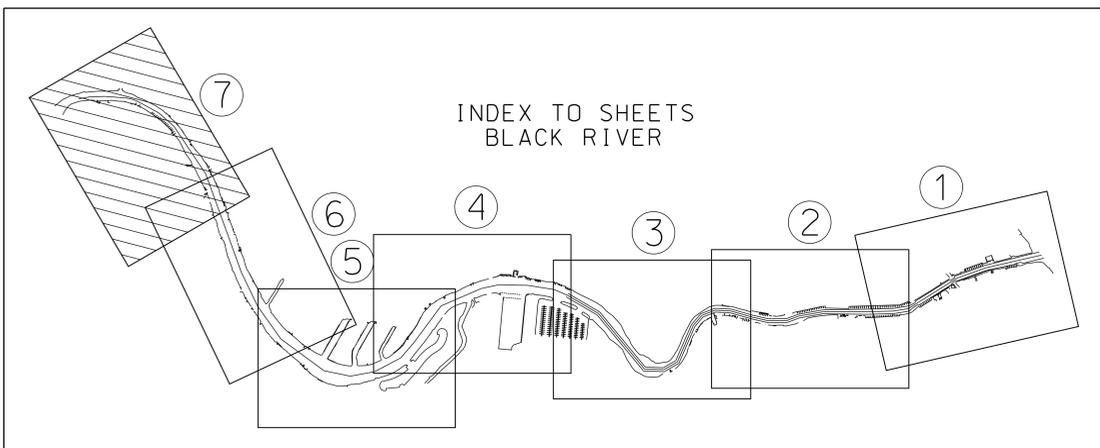
STATION	EAST	NORTH
PT. F	1363552.9600	557974.5530

**CONTROL POINTS (CORPSCON)**

STATION	EAST	NORTH
E	13.635.586.13	557.169.39
56	13.636.286.74	557.547.68
FORD	13.635.552.98	558.520.05

**CENTERLINE TURNING POINTS**

STATION	EAST	NORTH
33	13.635.406.90	556.097.66
34	13.635.724.05	557.161.17
35	13.635.735.80	557.553.22
36	13.635.661.62	557.937.56
37	13.635.633.68	558.050.31
38	13.635.595.86	558.149.99
39	13.635.548.18	558.232.58
40	13.635.314.52	558.555.61
41	13.635.126.79	558.767.03
42	13.634.954.62	558.910.58



NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
<b>BLACK RIVER, MI</b> CONDITION SOUNDINGS C.S. 205+00 TO C.S. 232+00 01 AUG 2006 DETROIT AREA OFFICE			
DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
REVIEWED BY:			
SUBMITTED BY:			
APPROVAL RECOMMENDED:	DATE		
CHIEF, PROJ., CPNS, SECT.	CHIEF, GTS BRANCH		
APPROVED:	SCALE AS SHOWN	1" = 100'	
CHIEF, CONST. CPNS DIVISION	CADD FILE NAME	brph0706c.dgn	
	SHEET 1 OF 1		