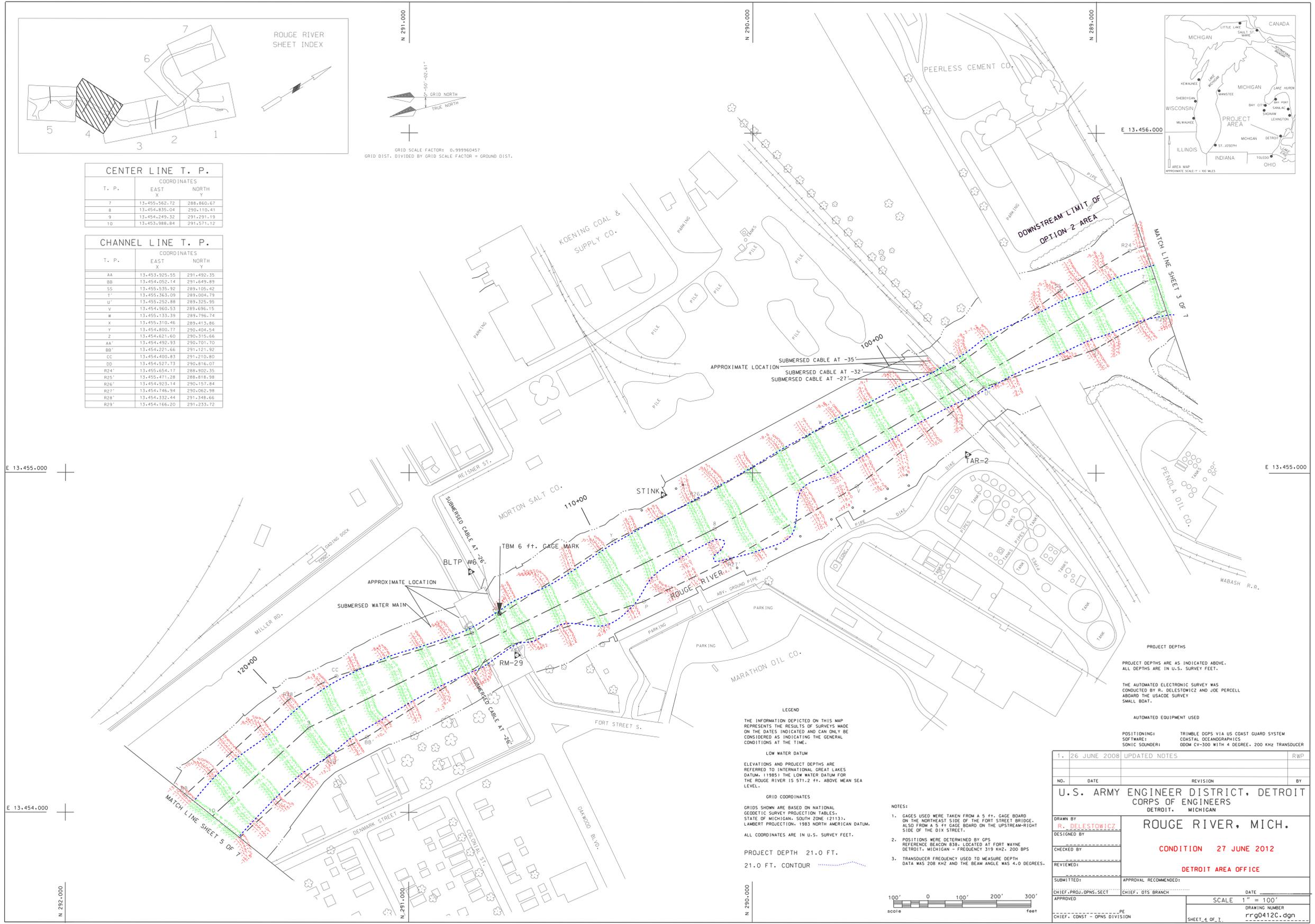


CENTER LINE T. P.		
T. P.	COORDINATES	
	EAST X	NORTH Y
7	13,455,562.72	288,860.67
8	13,454,835.04	290,110.41
9	13,454,249.32	291,291.19
10	13,453,988.84	291,571.12

CHANNEL LINE T. P.		
T. P.	COORDINATES	
	EAST X	NORTH Y
AA	13,453,925.55	291,492.35
BB	13,454,052.14	291,649.89
SS	13,455,535.92	289,105.42
T'	13,455,363.09	289,004.79
U'	13,455,252.88	289,225.95
Y	13,454,960.53	289,096.15
W	13,455,133.39	289,796.74
X	13,455,310.46	289,413.86
Y	13,454,800.77	290,404.54
Z	13,454,621.60	290,319.66
AA'	13,454,452.93	290,701.70
BB'	13,454,221.66	291,121.92
CC	13,454,400.83	291,210.80
DD	13,454,527.73	290,816.07
R24'	13,455,854.17	288,302.35
R25'	13,455,471.29	288,018.98
R26'	13,454,923.14	290,157.84
R27'	13,454,746.94	290,082.98
R28'	13,454,332.44	291,348.66
R29'	13,454,166.20	291,233.72



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: 119851 THE LOW WATER DATUM FOR THE ROUGE RIVER IS 571.2 FT. ABOVE MEAN SEA LEVEL.

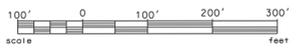
GRID COORDINATES

GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES, STATE OF MICHIGAN, SOUTH ZONE 121313, LAMBERT PROJECTION, 1983 NORTH AMERICAN DATUM. ALL COORDINATES ARE IN U.S. SURVEY FEET.

PROJECT DEPTH 21.0 FT.

21.0 FT. CONTOUR

- NOTES:**
- GAGES USED WERE TAKEN FROM A 5 FT. GAGE BOARD ON THE NORTHEAST SIDE OF THE FORT STREET BRIDGE, ALSO FROM A 5 FT GAGE BOARD ON THE UPSTREAM-RIGHT SIDE OF THE DIX STREET.
 - POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 839, 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 4.0 DEGREES.



PROJECT DEPTHS

PROJECT DEPTHS ARE AS INDICATED ABOVE. ALL DEPTHS ARE IN U.S. SURVEY FEET.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY R. DELESTOWICZ AND JOE PERCELL ABOARD THE USACOE SURVEY SMALL BOAT.

AUTOMATED EQUIPMENT USED

POSITIONING: TRIMBLE DGPS VIA US COAST GUARD SYSTEM
 SOFTWARE: COASTAL OCEANOGRAPHICS
 SONIC SOUNDING: ODOM CV-300 WITH 4 DEGREE, 200 KHZ TRANSDUCER

1.	26 JUNE 2008	UPDATED NOTES	RWP
NO.	DATE	REVISION	BY
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN ROUGE RIVER, MICH. CONDITION 27 JUNE 2012 DETROIT AREA OFFICE			
DRAWN BY R. DELESTOWICZ		DESIGNED BY	
CHECKED BY		REVIEWED:	
SUBMITTED:		APPROVAL RECOMMENDED:	
CHIEF, PROJ. OPNS. SECT		CHIEF, DTS BRANCH	
APPROVED		DATE	
CHIEF, CONST. OPNS. DIVISION		SCALE 1" = 100'	
		DRAWING NUMBER	
		rrg0412c.dgn	
		SHEET 4 OF 7	