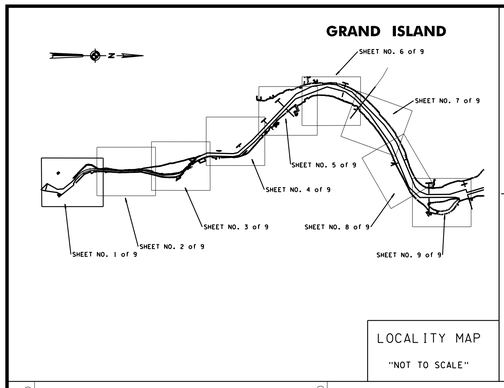
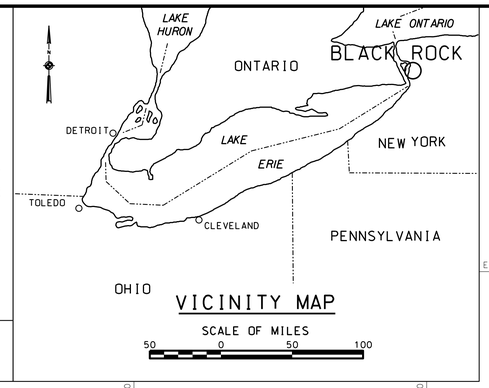
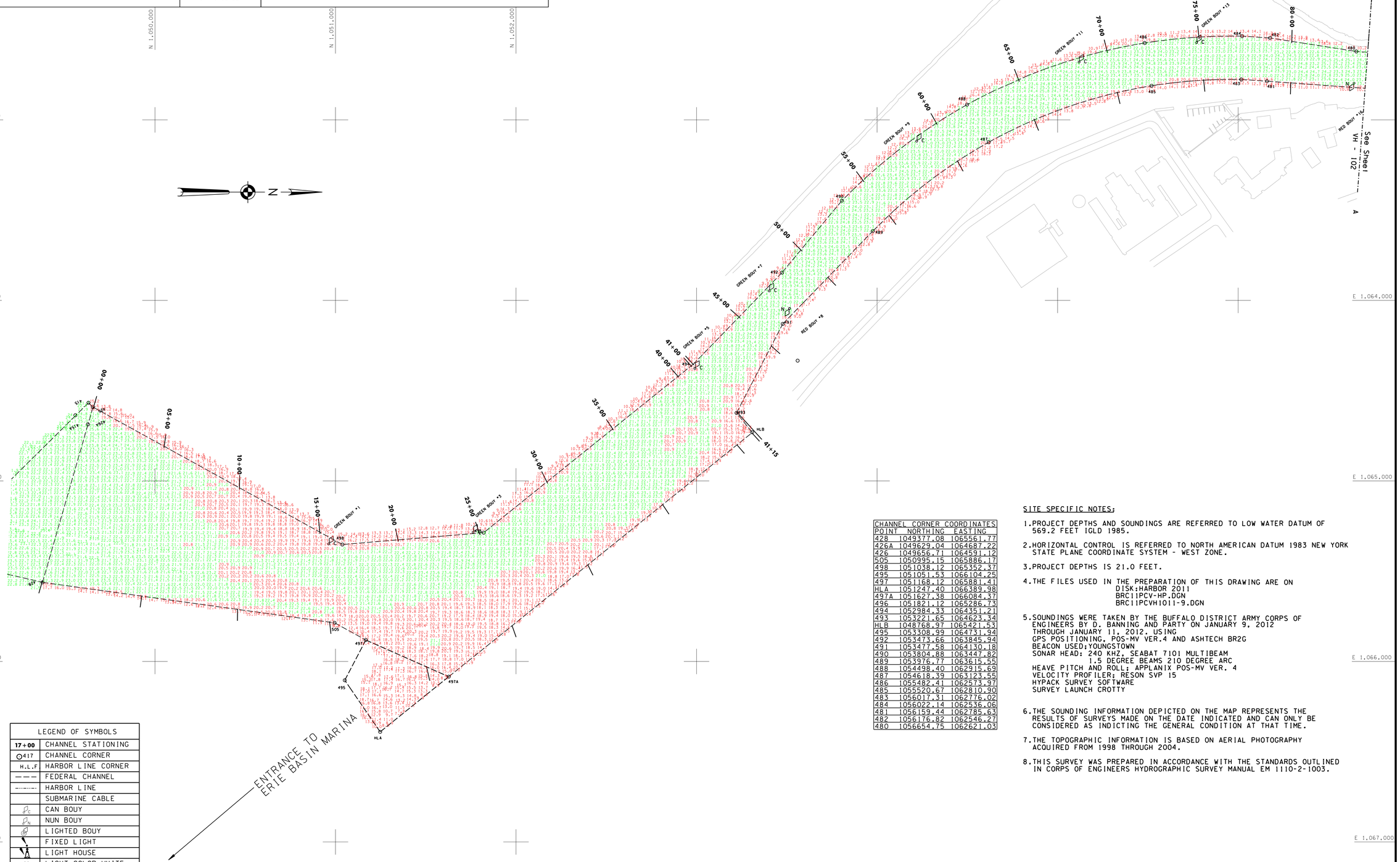


LOCALITY MAP

"NOT TO SCALE"



VICINITY MAP



LEGEND OF SYMBOLS	
17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F	HARBOR LINE CORNER
— — —	FEDERAL CHANNEL
-·-·-·-·-	HARBOR LINE
	SUBMARINE CABLE
C	CAN BOUY
N	NUN BOUY
	LIGHTED BOUY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
Q	QUICK (FLASHING)
S	LIGHT CYCLE SECONDS

CHANNEL CORNER COORDINATES

POINT	NORTHING	EASTING
428	1049377.08	1065561.77
426A	1049629.04	1064687.22
426	1049656.71	1064591.12
505	1050995.15	1065886.17
498	1051038.12	1065352.37
495	1051051.53	1066104.25
497	1051168.12	1065881.41
HLA	1051247.40	1066389.98
497A	1051627.38	1066084.37
496	1051821.12	1065286.73
494	1052984.33	1064351.21
493	1053221.65	1064623.34
HLB	1048768.97	1065421.53
495	1053308.99	1064731.94
492	1053473.66	1063845.94
491	1053477.58	1064130.18
490	1053804.88	1063447.82
489	1053976.77	1063615.55
488	1054498.40	1062915.69
487	1054618.39	1063123.55
486	1055482.41	1062573.97
485	1055520.67	1062810.90
483	1056017.31	1062776.02
484	1056022.14	1062536.06
481	1056159.44	1062785.63
482	1056176.82	1062546.27
480	1056654.75	1062621.03

SITE SPECIFIC NOTES;

1. PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO LOW WATER DATUM OF 569.2 FEET IGLD 1985.
2. HORIZONTAL CONTROL IS REFERRED TO NORTH AMERICAN DATUM 1983 NEW YORK STATE PLANE COORDINATE SYSTEM - WEST ZONE.
3. PROJECT DEPTHS IS 21.0 FEET.
4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2011
   BRC11PCV-HP.DGN
   BRC11PCVH1011-9.DGN
5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON JANUARY 9, 2012 THROUGH JANUARY 11, 2012. USING
   GPS POSITIONING, POS-MV VER.4 AND ASHTECH BR2G BEACON USED;YOUNGSTOWN
   SONAR HEAD: 240 KHZ, SEABAT 7101 MULTIBEAM 1.5 DEGREE BEAMS 210 DEGREE ARC
   HEAVE PITCH AND ROLL: APPLANIX POS-MV VER. 4
   VELOCITY PROFILER: RESON SVP 15
   HYPACK SURVEY SOFTWARE
   SURVEY LAUNCH CROTTY
6. THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICTING THE GENERAL CONDITION AT THAT TIME.
7. THE TOPOGRAPHIC INFORMATION IS BASED ON AERIAL PHOTOGRAPHY ACQUIRED FROM 1998 THROUGH 2004.
8. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003.

SOUNDING COLOR LEGEND

- DEPTHS 0.1' OR MORE ABOVE PROJECT DEPTH
- DEPTHS AT OR BELOW PROJECT DEPTH

US Army Corps of Engineers
Buffalo District

Drawn by: PAN
Checked by: ACK
Reviewed by: Ronan H. Figler III PLS
Chief, Survey Section
Approved: Raymond N. Lewis
Chief, NY/PA Navigation and Maintenance Section
Date: May 15, 2012

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
BUFFALO, NEW YORK 14207-3199

BLACK ROCK CANAL & TONAWANDA HARBOR, N.Y.

PROJECT CONDITION SOUNDINGS 2011

SCALE: 1" = 200'

SCALE OF FEET 50 0 100 200

Sheet reference number: **VH - 101**

Sheet **1** of **9**

11S-BRC-1/1

This drawing was prepared using a CADD system. Scaling may be distorted.

To view a color version of this map, point a web browser to http://www.lrb.usace.army.mil/WNOWBAFER/MOTERMGR/survey/survey.html