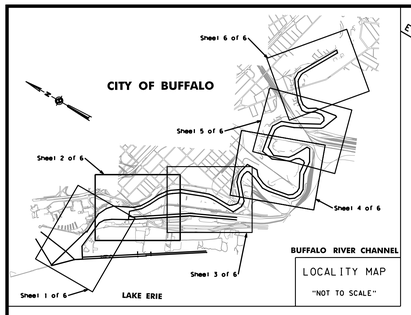
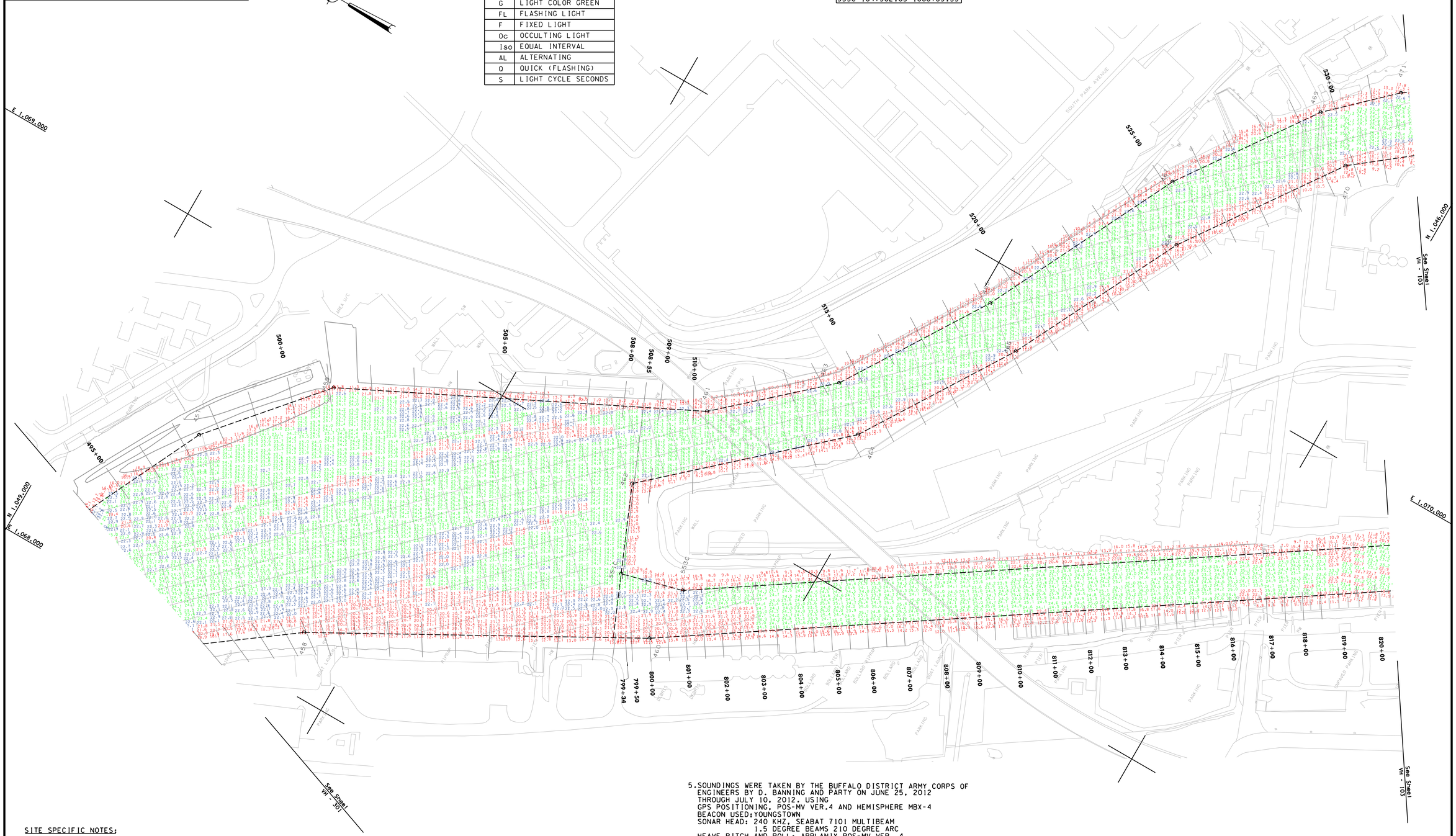


LEGEND OF SYMBOLS	
17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
	CAN BOUY
	NUN BOUY
	LIGHTED BOUY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT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

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
457	1048668.80	1068488.83
458	1048147.02	1068162.50
459	1048412.95	1068786.74
460	1047315.42	1068624.06
461	1047490.56	1069243.82
462	1047569.67	1068968.67
463	1047214.72	1069493.50
464	1047098.66	1069396.29
465	1046964.26	1069891.59
466	1046837.35	1069811.63
467	1046696.62	1070431.92
468	1046600.30	1070286.38
469	1046439.60	1070800.69
470	1046306.28	1070708.22
471	1046274.96	1070957.72
551C	1047471.89	1068738.78
553C	1047302.03	1068783.53



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. CONTRACT DEPTH IS 22.0 FEET IN THE MAINTENANCE DREDGING AREAS.

   PROJECT DEPTH IS 23.0 FEET IN THE NON MAINTENANCE DREDGING AREAS.

4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2012
   BFR12BEFVH1022-6.DGN
   BFR12BEFV-HP.DGN

5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON JUNE 25, 2012 THROUGH JULY 10, 2012, USING
   GPS POSITIONING, POS-MV VER.4 AND HEMISPHERE MBX-4
   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.

DENOTES MAINTENANCE DREDGING AREA

SOUNDING COLOR LEGEND

- DEPTHS 0.1' OR MORE ABOVE CONTRACT DEPTH
- DEPTHS WITHIN ONE FOOT OF OVERDEPTH
- DEPTHS 1.0' OR MORE BELOW CONTRACT DEPTH

US Army Corps of Engineers
Buffalo District

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

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: July 31, 2012

BUFFALO HARBOR, N.Y.
BUFFALO RIVER AND SHIP CANAL
BEFORE CONTRACT DREDGING SOUNDINGS 2012
SCALE: 1" = 100'
SCALE OF FEET 25 0 50 100

Sheet reference number:
VH - 102
Sheet **2** of **6**
12S-BFR-1/2

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/WebBafer/WebHydro/survey/survey.html