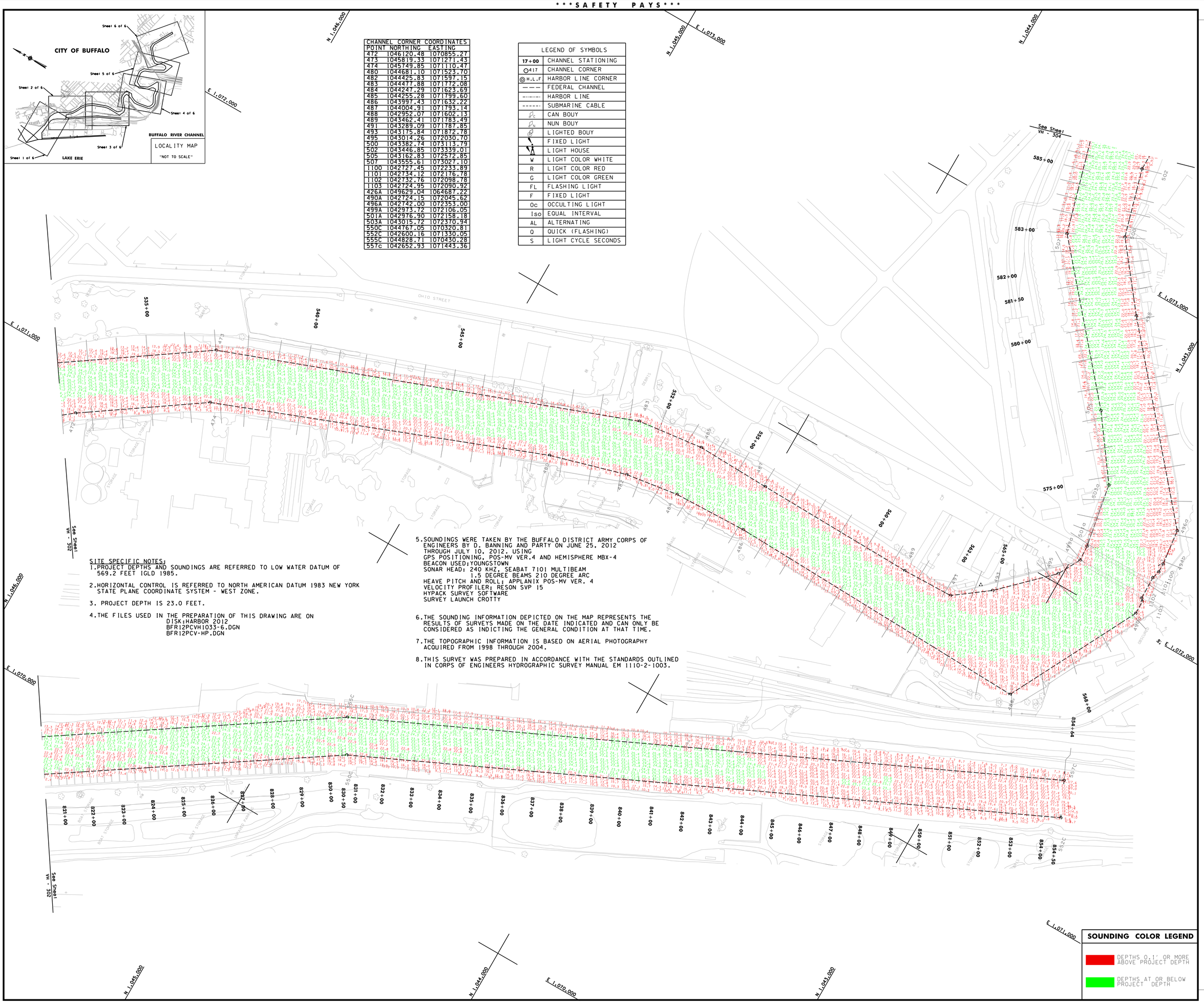
CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
472	1046120.48	1070855.27
473	1045819.33	1071271.43
474	1045749.85	1071110.47
480	1044681.10	1071523.70
482	1044425.83	1071597.15
483	1044477.88	1071772.08
484	1044247.29	1071623.69
485	1044255.28	1071799.60
486	1043997.43	1071632.22
487	1044004.91	1071793.14
488	1042952.07	1071602.13
489	1043462.41	1071783.49
491	1043289.09	1071787.85
493	1043175.84	1071872.78
495	1043014.26	1072030.70
500	1043382.74	1073113.79
502	1043446.85	1073339.01
505	1043162.83	1072572.85
507	1043555.61	1073027.10
1100	1042727.45	1072233.89
1101	1042734.12	1072176.78
1102	1042732.76	1072098.78
1103	1042724.95	1072090.92
426A	1049629.04	1064687.22
490A	1042724.15	1072045.62
496A	1042742.00	1072353.00
499A	1042973.72	1072106.05
501A	1042976.90	1072158.18
503A	1043015.72	1072370.94
550C	1044767.05	1070320.81
552C	1042600.16	1071330.05
555C	1044828.71	1070430.28
557C	1042652.93	1071443.36

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



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 DEPTH IS 23.0 FEET.
4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2012
   BFR12PCVH1033-6.DGN
   BFR12PCV-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.

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: Roman H. Figler III PLS
Chief, Survey Section
Approved: Raymond N. Lewis
Chief, NY/PA Navigation and Maintenance Section
Date: August 7, 2012

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

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

Sheet reference number:
VH - 303
Sheet **3** of **6**
12S-BFR-3/3

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/MotherMgt/survey/survey.html