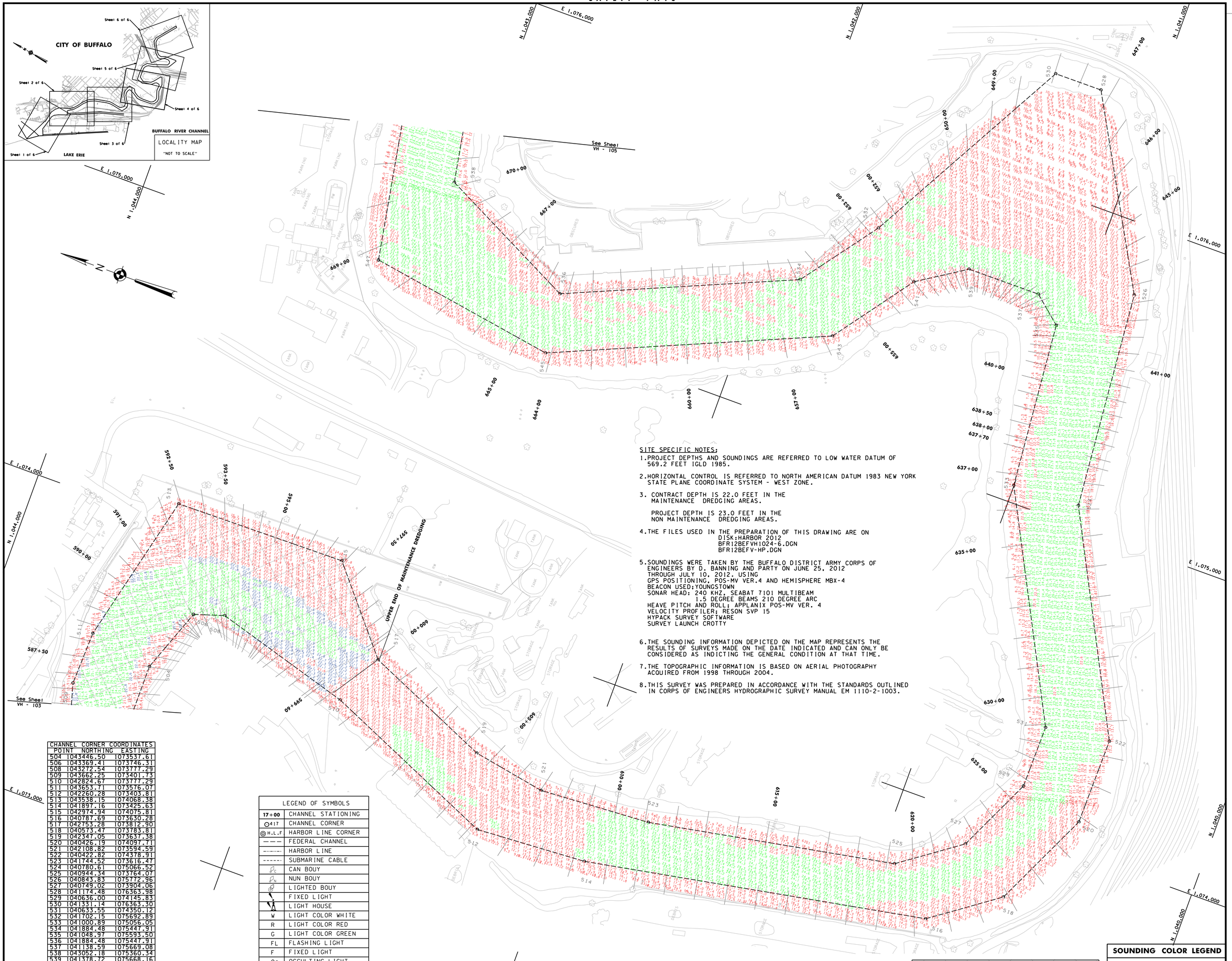

SITE SPECIFIC NOTES:

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
   BFR12BEFVH1024-6.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.

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
504	1043446.50	1073537.61
506	1043369.41	1073746.31
508	1043272.54	1073777.29
509	1043662.25	1073401.73
510	1042824.67	1073777.29
511	1043653.71	1073576.07
512	1042260.28	1073403.81
513	1043538.15	1074068.38
514	1041897.16	1073425.63
515	1042974.94	1074075.81
516	1040787.69	1073630.28
517	1042753.28	1073812.90
518	1040573.47	1073783.81
519	1042347.05	1073637.38
520	1040426.19	1074097.71
521	1042108.82	1073594.59
522	1040422.82	1074378.91
523	1041744.52	1073616.47
524	1040780.61	1075066.52
525	1040944.34	1073764.07
526	1040843.83	1075772.96
527	1040749.02	1073904.06
528	1041174.48	1076363.98
529	1040636.00	1074145.83
530	1041331.14	1076363.30
531	1040633.55	1074350.12
532	1041702.15	1075692.89
533	1041000.89	1075056.05
534	1041884.48	1075447.91
535	1041048.97	1075593.50
536	1041884.48	1075447.91
537	1041138.59	1075689.08
538	1043052.18	1075360.34
539	1041378.72	1075668.16
540	1043154.21	1075929.50
541	1041533.77	1075568.01
542	1043191.02	1076295.98
543	1041722.55	1075311.24
545	1042582.77	1074939.39
547	1043197.92	1075037.98

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

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

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Dated:
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
BEFORE CONTRACT DREDGING SOUNDINGS 2012
SCALE; 1" = 100'
SCALE OF FEET
0 25 50 100

Sheet reference number:
VH - 104
Sheet **4** of **6**
12S-BFR-1/4

To view a color version of this map, point a web browser to http://www.lrb.usace.army.mil/NavMaint/Survey/Survey.html. This drawing was prepared using a CADD system. Scaling may be distorted.