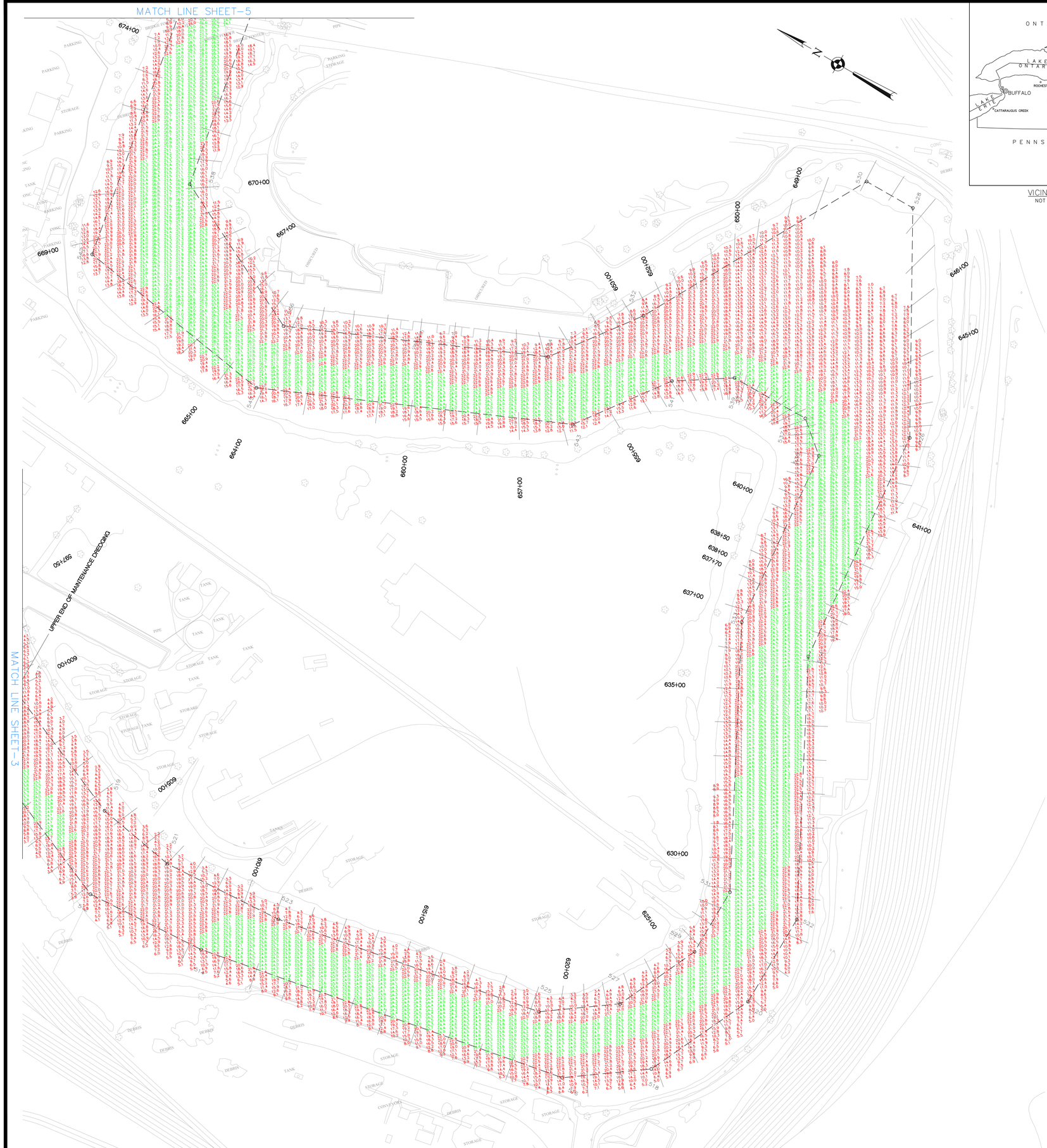
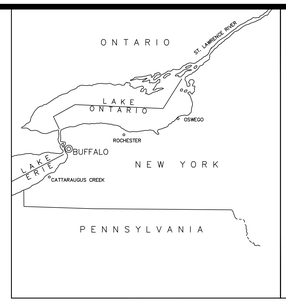
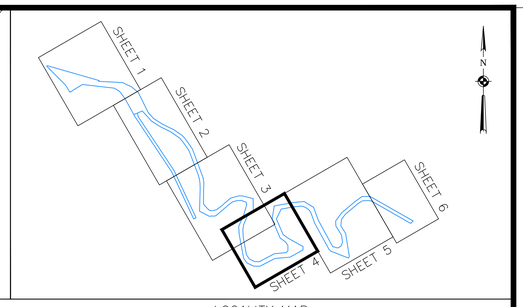




VICINITY MAP
NOT TO SCALE



LOCALITY MAP
NOT TO SCALE

CHANNEL CORNER COORDINATES		
Point #	NORTHING	EASTING
512	1042260.29	1073403.82
514	1041897.16	1073425.63
516	1040787.70	1073630.28
517	1042753.28	1073812.90
518	1040573.48	1073783.82
519	1042347.05	1073637.39
520	1040426.19	1074097.72
521	1042108.82	1073594.60
522	1040422.82	1074378.92
523	1041744.52	1073616.48
524	1040780.62	1075066.52
525	1040944.35	1073764.08
526	1040843.83	1075772.96
527	1040749.02	1073904.07
528	1041174.49	1076363.99
529	1040636.01	1074145.83
530	1041331.14	1076363.31
531	1040633.56	1074350.13
532	1041702.16	1075692.89
533	1041000.89	1075056.06
534	1041884.48	1075447.92
535	1041048.98	1075593.50
536	1042604.46	1075136.69
537	1041138.60	1075669.09
538	1043052.19	1075360.34
539	1041378.73	1075668.16
541	1041533.78	1075568.02
543	1041722.55	1075311.24
545	1042582.78	1074939.40
547	1043197.93	1075037.99

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

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 FEET.
4. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON JUNE 25, 2013 THROUGH OCTOBER 9, 2013 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"
5. THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.
6. THE TOPOGRAPHIC INFORMATION IS BASED ON AERIAL PHOTOGRAPHY ACQUIRED FROM 1998 THROUGH 2004.
7. 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

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

Drawn by: KP
Checked by: ACK
Reviewed by:
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Chief, Survey Section
Approved:
Edward F. Gawarecki
Chief, NY/PA Navigation and Maintenance Section
DATE: October 17, 2013

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 2013

SCALE: 1" = 100'

100' 0 100'
SCALE IN FEET

Sheet reference number:
VH - 104

Sheet 4 of 6

To view a color version of this map, point a web browser to http://www.nlb.usace.army.mil/WebMapping/MapWebApp/NoWebAng/Survey/survey.html

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