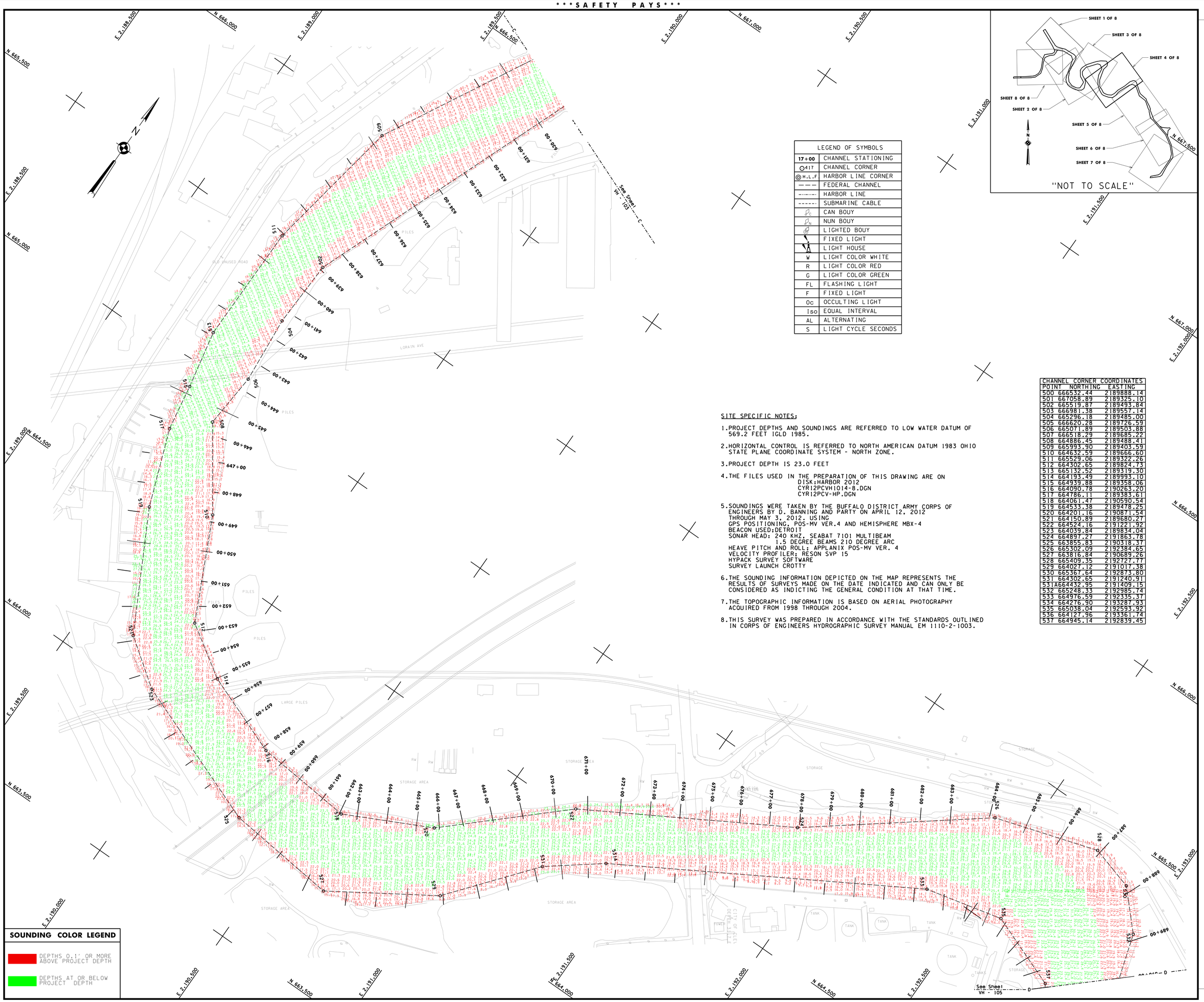

LEGEND OF SYMBOLS	
17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
	CAN BOUY
	NUN BOUY
	LIGHTED BOUY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT
Iso	EQUAL INTERVAL
AL	ALTERNATING
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 OHIO STATE PLANE COORDINATE SYSTEM - NORTH ZONE.
3. PROJECT DEPTH IS 23.0 FEET
4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2012
   CYR12PCVH1014-8.DGN
   CYR12PCV-HP.DGN
5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON APRIL 12, 2012 THROUGH MAY 3, 2012. USING
   GPS POSITIONING, POS-MV VER.4 AND HEMISPHERE MBX-4 BEACON USED;DETROIT
   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
500	666532.44	2189888.14
501	667058.89	2189325.10
502	665519.87	2189493.84
503	666981.38	2189557.14
504	665296.18	2189485.00
505	666620.28	2189726.59
506	665071.89	2189503.88
507	666518.29	2189685.22
508	664886.45	2189488.41
509	665993.90	2189403.59
510	664632.59	2189666.60
511	665529.06	2189322.26
512	664302.65	2189824.73
513	665132.52	2189319.30
514	664193.49	2189993.10
515	664939.88	2189358.06
516	664090.78	2190263.20
517	664786.11	2189383.61
518	664061.47	2190590.54
519	664533.38	2189478.25
520	664201.16	2190871.54
521	664150.89	2189680.27
522	664524.16	2191221.92
523	664039.84	2189834.04
524	664897.27	2191863.78
525	663855.83	2190318.37
526	665302.09	2192384.65
527	663816.84	2190689.26
528	665409.35	2192727.77
529	664027.12	2191017.38
530	665367.64	2192873.80
531	664302.65	2191240.91
531A	664432.95	2191409.15
532	665248.33	2192985.74
533	664976.59	2192335.37
534	664276.90	2193287.93
535	665038.04	2192593.92
536	664127.96	2193361.74
537	664945.14	2192839.45

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.

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

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: May 4, 2012

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

CLEVELAND HARBOR, OHIO
CUYAHOGA RIVER
PROJECT CONDITION SOUNDINGS 2012
SCALE: 1" = 100'
SCALE OF FEET 25 0 50 100

Sheet reference number:
VH - 104
Sheet 4 of 8

12S-CYR-1/4