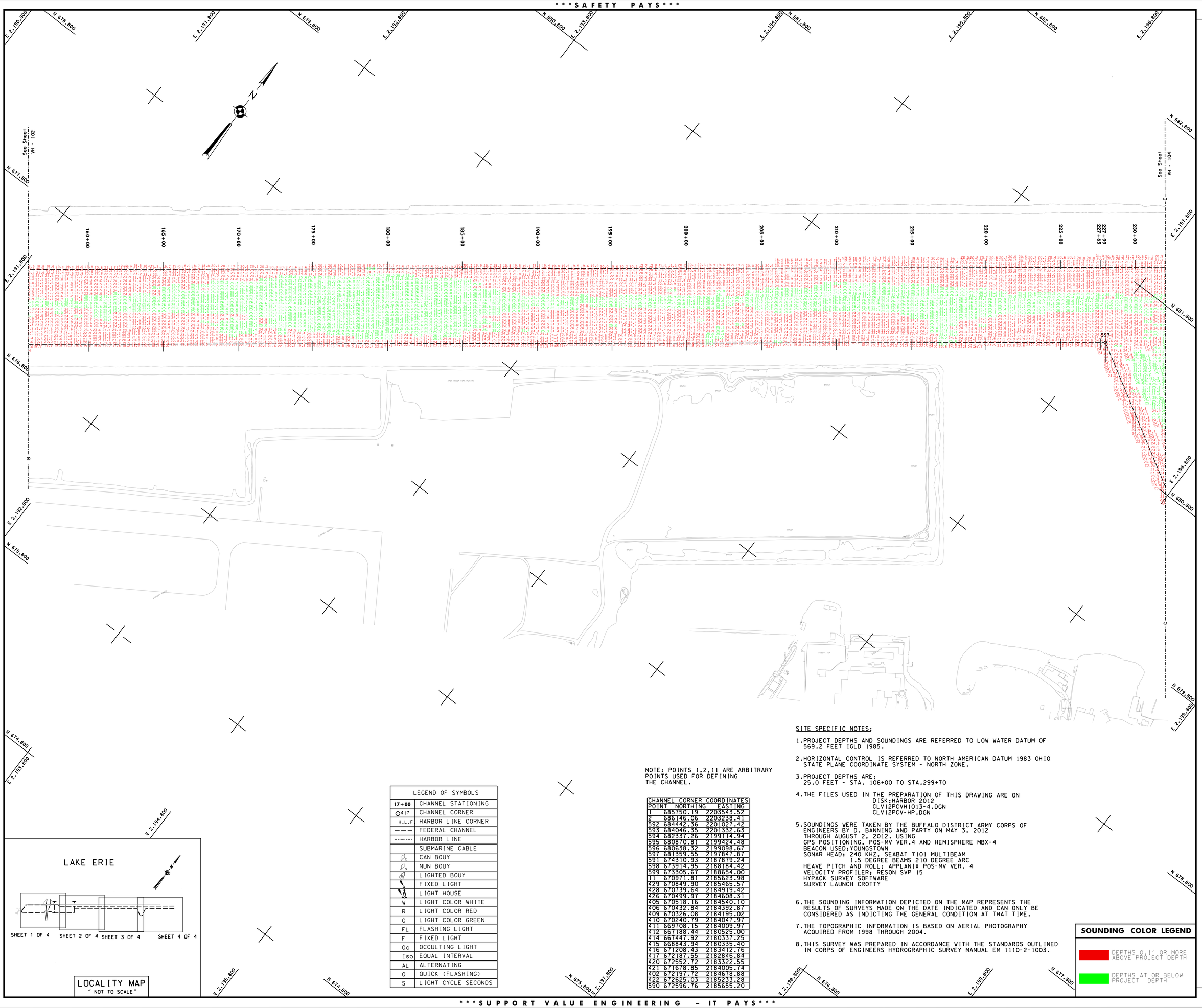

LEGEND OF SYMBOLS	
17+00	CHANNEL STATIONING
417	CHANNEL CORNER
H.L.F	HARBOR LINE CORNER
	FEDERAL CHANNEL
	HARBOR LINE
	SUBMARINE CABLE
C	CAN BOUY
N	NUN BOUY
	LIGHTED BOUY
	FIXED LIGHT
	LIGHT HOUSE
W	LIGHT COLOR WHITE
R	LIGHT COLOR RED
G	LIGHT COLOR GREEN
FL	FLASHING LIGHT
F	FIXED LIGHT
Oc	OCCULTING LIGHT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

NOTE: POINTS 1,2,11 ARE ARBITRARY POINTS USED FOR DEFINING THE CHANNEL.

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
1	685750.19	2203543.52
2	686146.06	2203238.41
592	684442.36	2201027.42
593	684046.35	2201332.63
594	682337.26	2199114.94
595	680870.81	2199424.48
596	680638.32	2199098.67
597	681359.55	2197847.87
591	674310.93	2187879.24
598	673914.95	2188184.42
599	673305.67	2188654.00
11	670971.81	2185623.98
429	670849.90	2185465.57
428	670739.64	2184919.42
426	670499.97	2184608.31
405	670518.16	2184540.10
406	670432.84	2184392.87
409	670326.08	2184195.02
410	670240.79	2184047.97
411	669708.15	2184009.97
412	667188.44	2180525.00
414	667447.92	2180337.25
415	668843.94	2180335.40
416	671208.43	2183412.76
417	672187.55	2182846.84
420	672552.72	2183322.55
421	671678.85	2184005.74
402	672197.72	2184678.88
422	672625.03	2185233.28
590	672596.76	2185655.20

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 DEPTHS ARE;
   25.0 FEET - STA. 106+00 TO STA.299+70

4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2012
   CLV12PCVH1013-4.DGN
   CLV12PCV-HP.DGN

5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON MAY 3, 2012 THROUGH AUGUST 2, 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

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/WebBafe/WebTerMgt/survey/survey.html

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Approved: Raymond N. Lewis
Date: August 21, 2012
Chief, NY/PA Navigation and Maintenance Section

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

CLEVELAND HARBOR, OHIO

PROJECT CONDITION SOUNDINGS 2012

SCALE: 1" = 200'

SCALE OF FEET 50 0 100 200

Sheet reference number:
VH - 103

Sheet **3** of **4**

12S-CLV-1/3