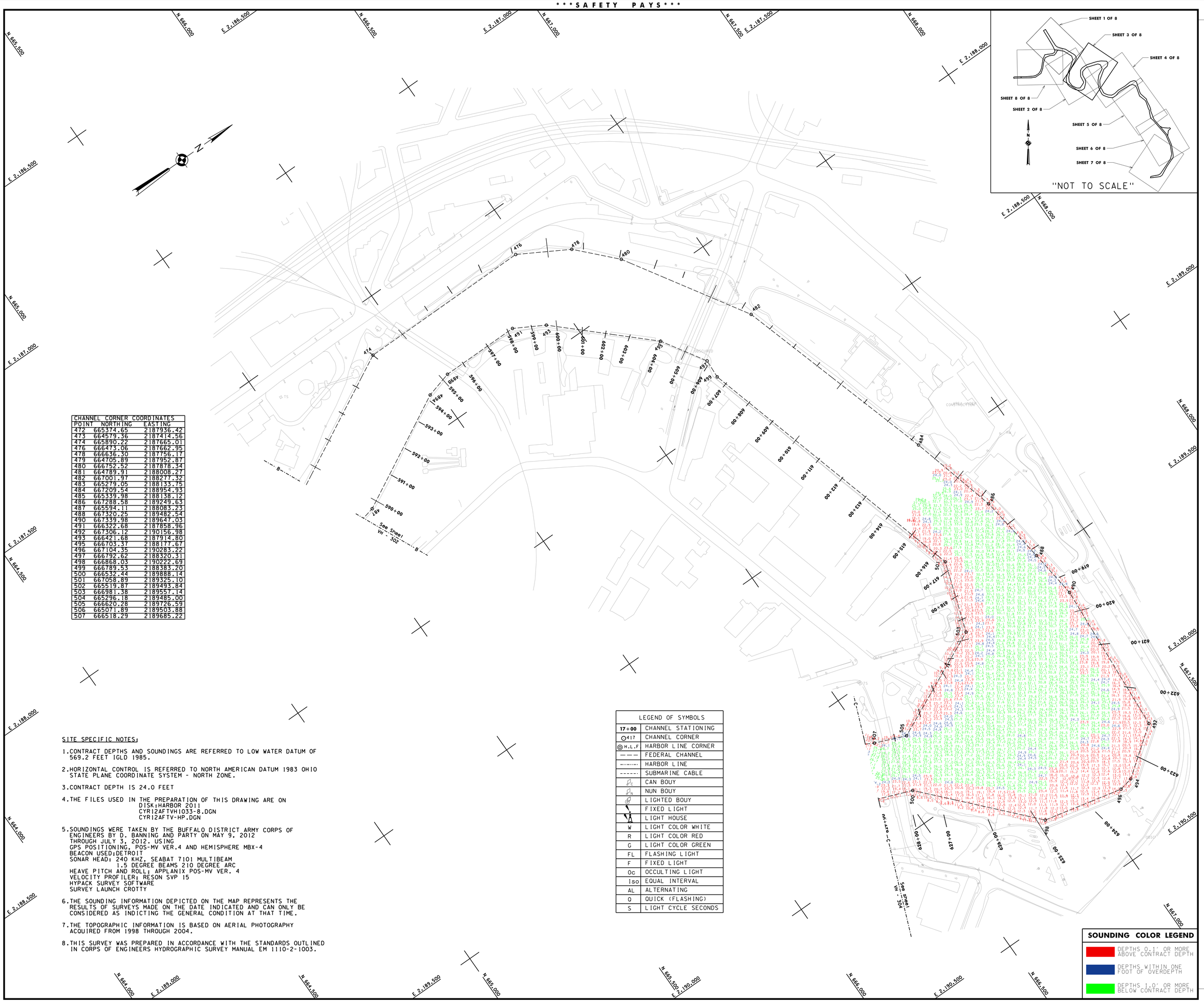

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
472	665374.65	2187936.42
473	664579.36	2187414.56
474	665890.22	2187665.01
476	666473.06	2187662.95
478	666636.30	2187756.17
479	664705.89	2187952.87
480	666752.52	2187878.34
481	664789.91	2188008.27
482	667001.97	2188277.32
483	665279.05	2188133.75
484	667209.54	2188954.93
485	665339.98	2188138.12
486	667288.58	2189249.63
487	665594.11	2188083.23
488	667320.25	2189482.54
490	667339.98	2189647.03
491	666322.68	2187858.96
492	667306.12	2190156.98
493	666421.68	2187914.80
495	666703.37	2188177.67
496	667104.35	2190283.22
497	666792.62	2188320.31
498	666868.03	2190222.69
499	666789.53	2188383.20
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

SITE SPECIFIC NOTES:

1. CONTRACT 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. CONTRACT DEPTH IS 24.0 FEET

4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2011
   CYR12AFTVH1033-8.DGN
   CYR12AFTV-HP.DGN

5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON MAY 9, 2012 THROUGH JULY 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.

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

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

Drawn by: PAN
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Chief, Survey Section
Approved:
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Chief, NY/PA Navigation and Maintenance Section
Date: July 23, 2012

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

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

Sheet reference number:
VH - 103
Sheet **3** of **8**
12S-CYR-3/3

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