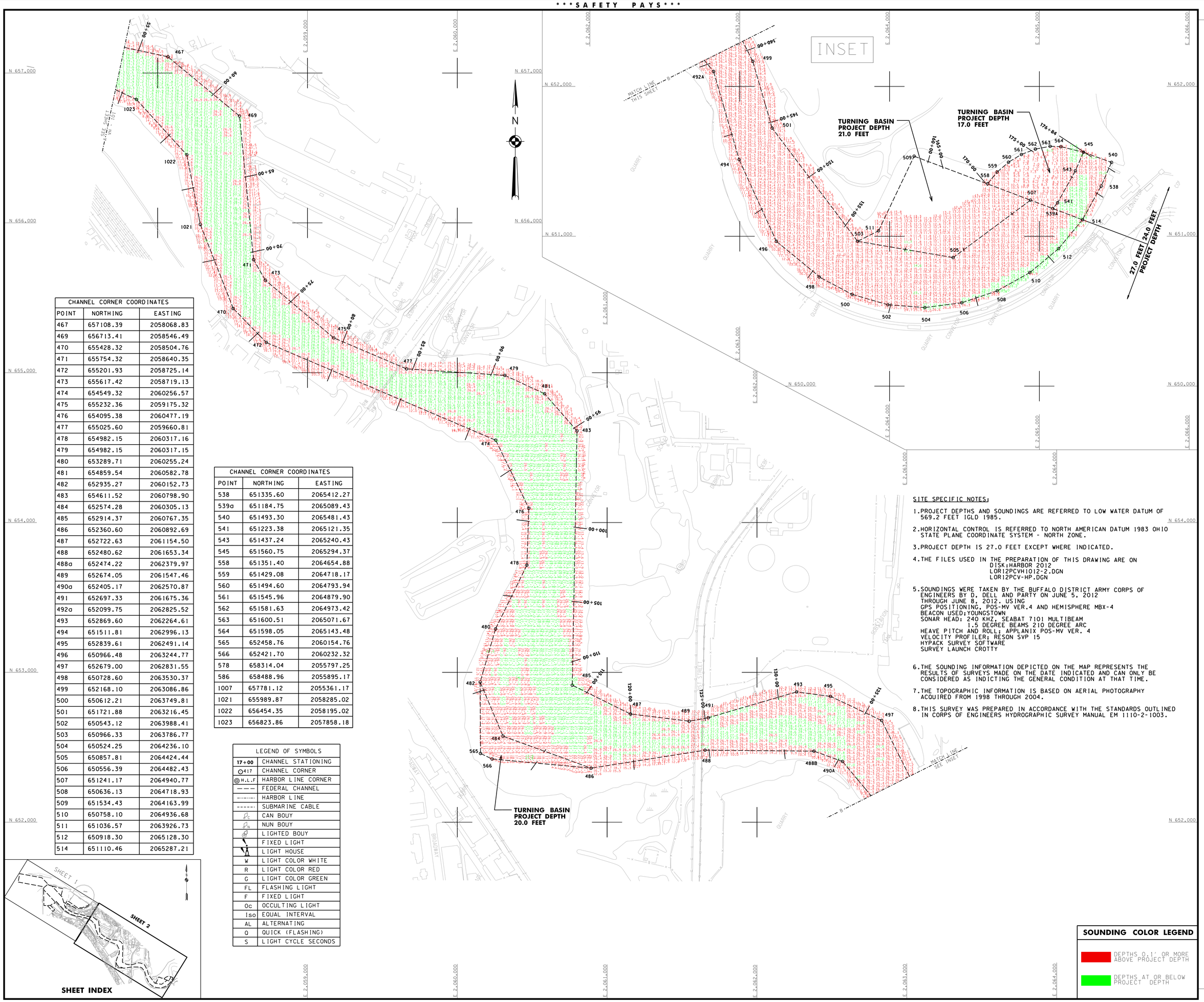

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
467	657108.39	2058068.83
469	656713.41	2058546.49
470	655428.32	2058504.76
471	655754.32	2058640.35
472	655201.93	2058725.14
473	655617.42	2058719.13
474	654549.32	2060256.57
475	655232.36	2059175.32
476	654095.38	2060477.19
477	655025.60	2059660.81
478	654982.15	2060317.16
479	654982.15	2060317.15
480	653289.71	2060255.24
481	654859.54	2060582.78
482	652935.27	2060152.73
483	654611.52	2060798.90
484	652574.28	2060305.13
485	652914.37	2060767.35
486	652360.60	2060892.69
487	652722.63	2061154.50
488	652480.62	2061653.34
488a	652474.22	2062379.97
489	652674.05	2061547.46
490a	652405.17	2062570.87
491	652697.33	2061675.36
492a	652099.75	2062825.52
493	652869.60	2062264.61
494	651511.81	2062996.13
495	652839.61	2062491.14
496	650966.48	2063244.77
497	652679.00	2062831.55
498	650728.60	2063530.37
499	652168.10	2063086.86
500	650612.21	2063749.81
501	651721.88	2063216.45
502	650543.12	2063988.41
503	650966.33	2063786.77
504	650524.25	2064236.10
505	650857.81	2064424.44
506	650556.39	2064482.43
507	651241.17	2064940.77
508	650636.13	2064718.93
509	651534.43	2064163.99
510	650758.10	2064936.68
511	651036.57	2063926.73
512	650918.30	2065128.30
514	651110.46	2065287.21

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
538	651335.60	2065412.27
539a	651184.75	2065089.43
540	651493.30	2065481.43
541	651223.38	2065121.35
543	651437.24	2065240.43
545	651560.75	2065294.37
558	651351.40	2064654.88
559	651429.08	2064718.17
560	651494.60	2064793.94
561	651545.96	2064879.90
562	651581.63	2064973.42
563	651600.51	2065071.67
564	651598.05	2065143.48
565	652458.76	2060154.76
566	652421.70	2060232.32
578	658314.04	2055797.25
586	658488.96	2055895.17
1007	657781.12	2055361.17
1021	655989.87	2058285.02
1022	656454.35	2058195.02
1023	656823.86	2057858.18

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

SHEET INDEX

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 27.0 FEET EXCEPT WHERE INDICATED.
4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2012
   LOR12PCVH1012-2.DGN
   LOR12PCV-HP.DGN
5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. DELL AND PARTY ON JUNE 5, 2012 THROUGH JUNE 8, 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

Drawn by: PAN
Checked by: ACK
Reviewed by: Roman H. Figler III PLS
Chief, Survey Section
Approved: Raymond N. Lewis
Date: July 23, 2012
Chief, NY/PA Navigation and Maintenance Section

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

LORAIN HARBOR, OHIO
RIVER SECTIONS
PROJECT CONDITION SOUNDINGS 2012
SCALE: 1" = 200'
SCALE OF FEET 50 0 100 200

Sheet reference number:
VH - 102
Sheet **2** of **2**
12S-LOR-1/2

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