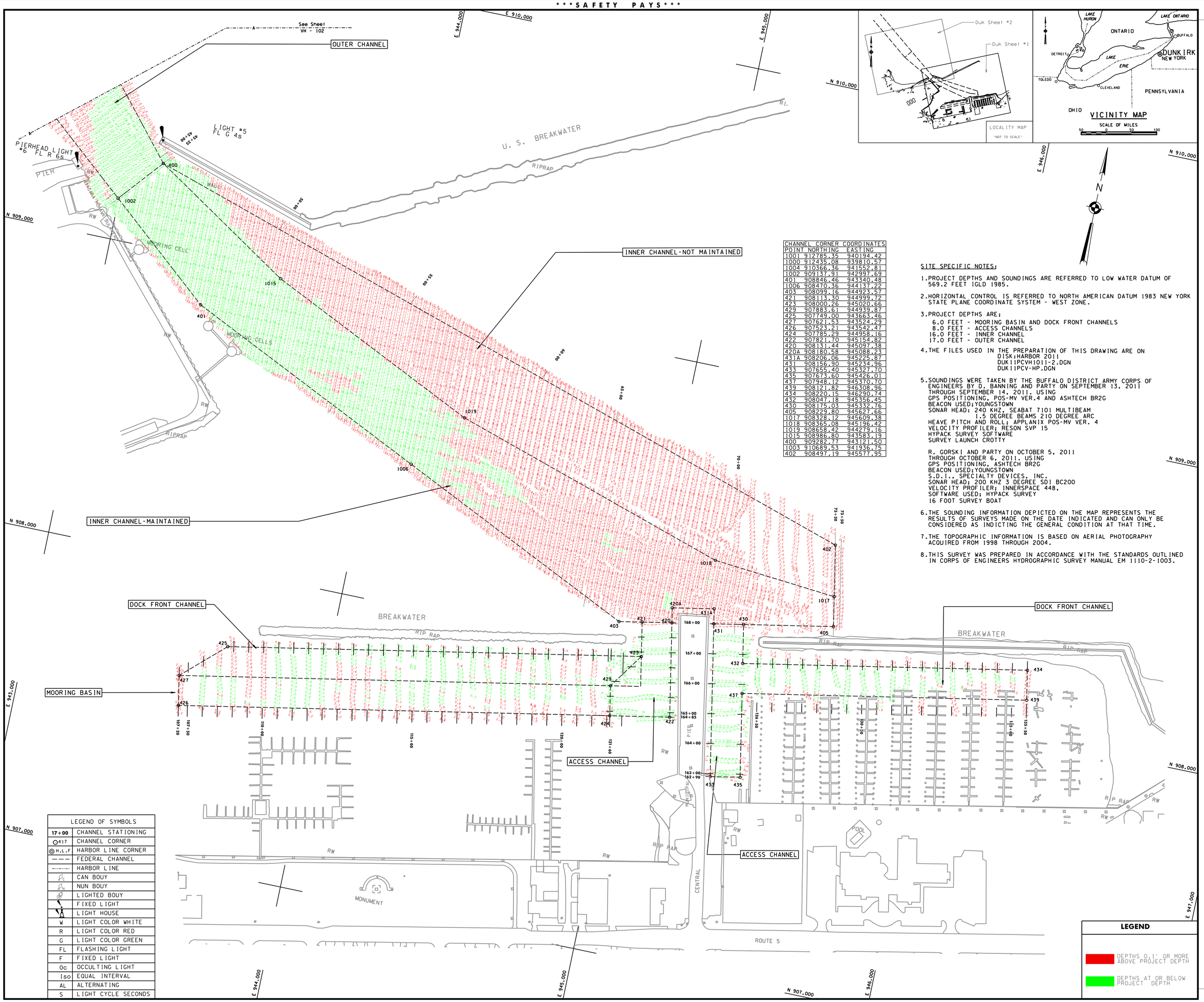

CHANNEL CORNER COORDINATES		
POINT	NORTHING	EASTING
1001	912785.35	940194.42
1000	912435.08	939810.57
1004	910366.36	941552.81
1002	909137.91	942997.69
401	908846.46	943340.48
1006	908470.36	944137.22
403	908099.16	944923.57
421	908113.30	944999.72
423	908000.26	945020.66
429	907883.61	944939.87
425	907749.00	943663.46
427	907621.53	943524.29
426	907523.21	943542.47
424	907785.29	944958.16
422	907821.70	945154.82
420	908131.44	945097.38
420A	908180.58	945088.23
431A	908206.06	945225.87
431	908156.90	945234.96
433	907655.40	945327.70
435	907673.60	945426.01
437	907948.12	945370.70
439	908121.82	946308.96
434	908220.15	946290.74
432	908047.18	945356.45
430	908175.03	945332.76
405	908229.80	945627.66
1017	908328.12	945609.38
1018	908365.08	945196.42
1019	908658.42	944279.16
1015	908986.80	943583.19
400	909282.77	943121.50
1003	910689.53	941936.75
402	908497.19	945577.95

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 DEPTHS ARE;
   - 6.0 FEET - MOORING BASIN AND DOCK FRONT CHANNELS
   - 8.0 FEET - ACCESS CHANNELS
   - 16.0 FEET - INNER CHANNEL
   - 17.0 FEET - OUTER CHANNEL
4. THE FILES USED IN THE PREPARATION OF THIS DRAWING ARE ON
   DISK:HARBOR 2011
   DUK11PCVH1011-2.DGN
   DUK11PCV-HP.DGN
5. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY D. BANNING AND PARTY ON SEPTEMBER 13, 2011 THROUGH SEPTEMBER 14, 2011. USING
   GPS POSITIONING, POS-MV VER.4 AND ASHTECH BR2G
   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

   R. GORSKI AND PARTY ON OCTOBER 5, 2011 THROUGH OCTOBER 6, 2011. USING
   GPS POSITIONING, ASHTECH BR2G
   BEACON USED;YOUNGSTOWN
   S.D.I., SPECIALTY DEVICES, INC.
   SONAR HEAD; 200 KHZ 3 DEGREE SDI BC200
   VELOCITY PROFILER; INNERSPACE 448,
   SOFTWARE USED; HYPACK SURVEY
   16 FOOT SURVEY BOAT
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
	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

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
Chief, NY/PA Navigation and Maintenance Section
Date: April 19, 2012

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

DUNKIRK HARBOR, N.Y.

PROJECT CONDITION SOUNDINGS 2011

SCALE: 1" = 100'

Sheet reference number:
VH - 101

Sheet **1** of **2**

11S-DUK-1/1

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