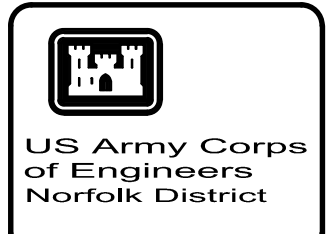
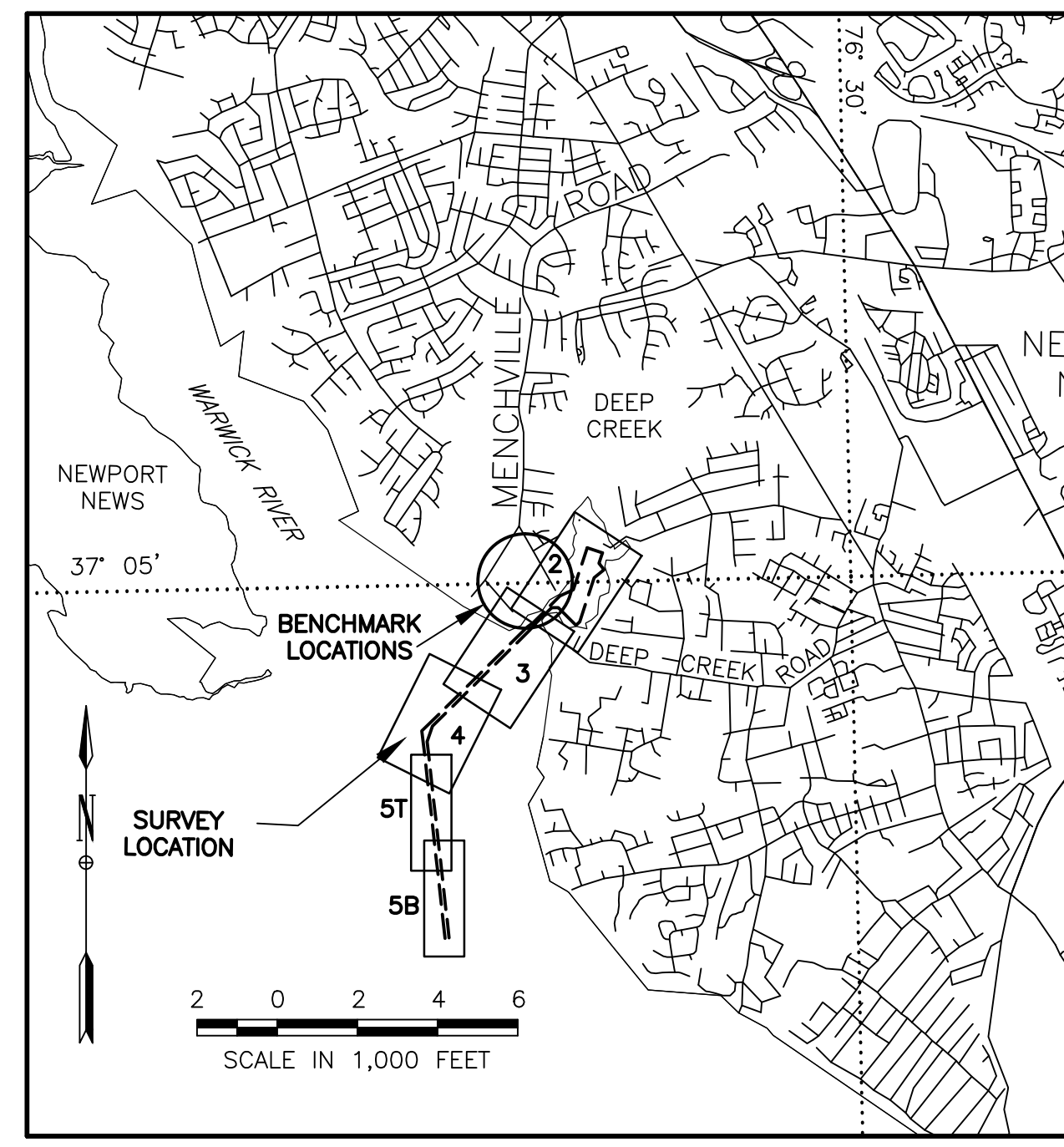
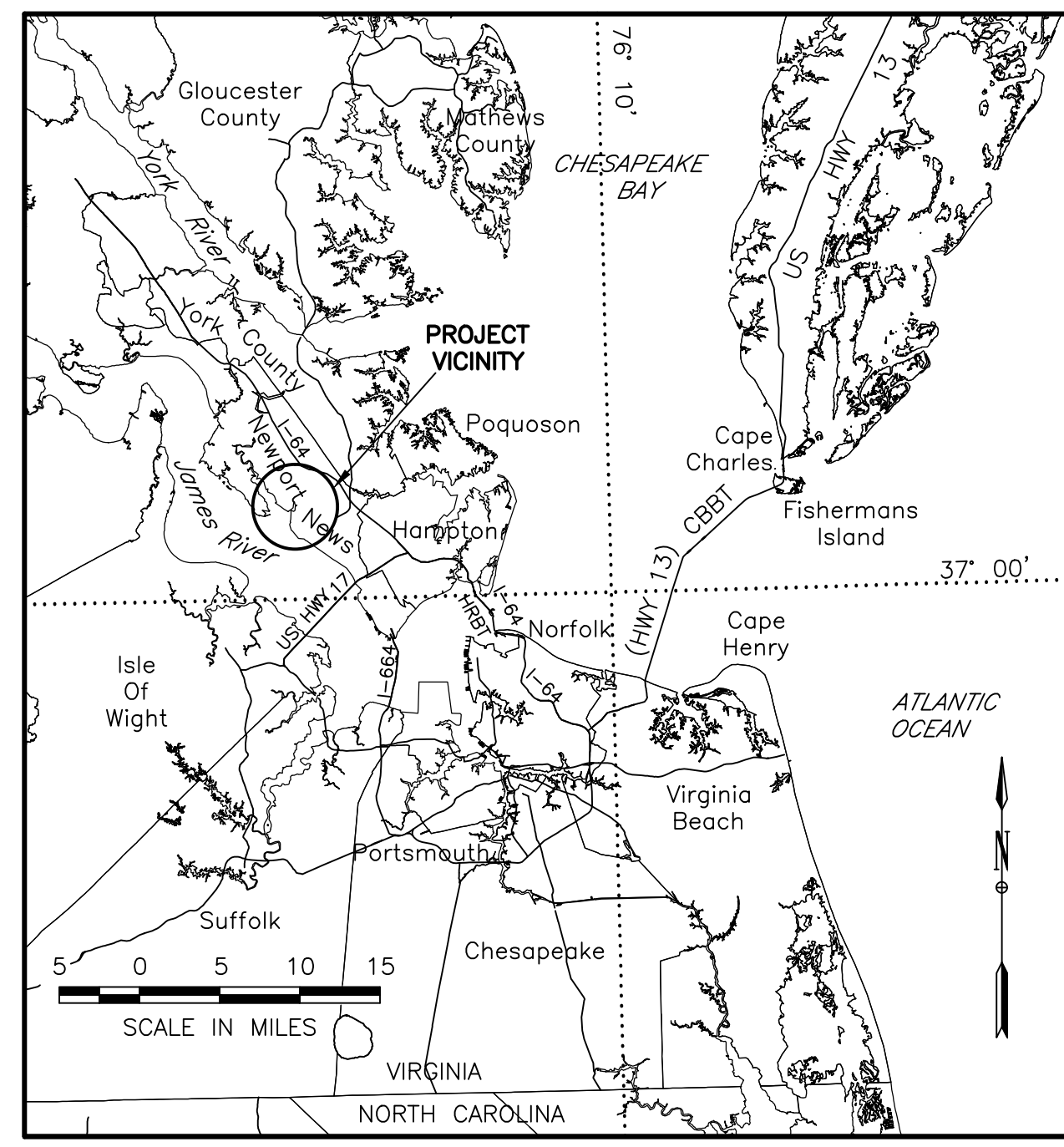


DEEP CREEK PROJECT CONDITION SURVEY OF JULY 2010 NEWPORT NEWS, VIRGINIA



REV.	DATE	DESCRIPTION	BY	APP.

COORDINATES OF CENTERLINE STATIONS		
STATION	EAST (X)	NORTH (Y)
CHANNEL		
14+84.0	12,059,038.54	3,559,585.46
62+75.6	12,055,628.65	3,556,219.13
114+55.7	12,056,205.94	3,551,071.35
BASIN		
0+00.0	12,059,890.74	3,560,743.49
2+77.6	12,059,803.36	3,560,480.06
3+84.0	12,059,769.85	3,560,379.03
6+53.6	12,059,684.99	3,560,123.18
18+10.0	12,059,320.90	3,559,025.52



-NOTES-

PROJECT DIMENSIONS: A channel 8 feet deep, 100 feet wide from that depth in James River to mouth of Deep Creek; thence, 8 feet deep, 60 feet wide to the harbor; thence a harbor 8 feet deep, 400 to 740 feet wide and 1,940 feet long totaling about 20 acres.

MEAN LOWER LOW WATER (MLLW) was determined by the National Ocean Service (NOS) at Menchville, Deep Creek Entrance, James River, and is 1.44 feet below the North America Vertical Datum of 1988 (NAVD-88) as determined by NOS software VDatum. The 0.37 feet datum difference between the National Tidal Datum Epoch (NTDE) of 1960-1978 and the NTDE of 1983-2001, was determined by NOS at Sewells Point, Hampton Roads. The Mean Low Water (MLW) to MLLW difference at Deep Creek at Menchville is 0.10 feet as determined by NOS software VDatum.

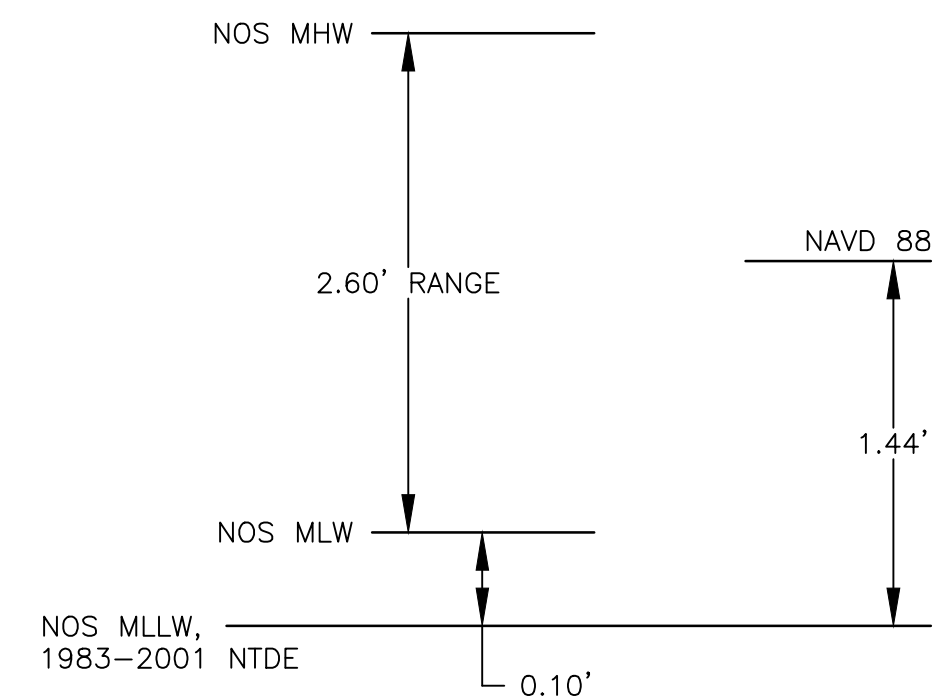
SOUNDINGS are in feet referred to NOS MLLW and were taken 6 and 7 July 2010. The darkened sounding(s) depicts the controlling depth(s) for this channel/reach.

MEAN RANGE OF TIDE is 2.60 feet at Menchville, Deep Creek Entrance, James River, based on NOS observations.

COORDINATES are referred to the Virginia State Plane Coordinate System, South Zone in U.S. survey feet, and are based on the North American Datum of 1983.

PLANIMETRIC FEATURES were developed by stereo photogrammetric methods from aerial photos flown 28 December 1994.

LAST DREDGED by Hampton Roads Leasing, Inc. during the period 28 July thru 17 October 2003 under Contract No. DACW65-03-C-0023 dated 10 July 2003.



BENCHMARKS	
BENCHMARK	ELEVATION
USC&GS "No. 5, 1970"	+4.67'
CE "PLUTO, 2003"	+5.35'
CE "URANUS, 2003"	+4.75'
Elevations are relative to NOS MLLW, 1983-2001 NTDE	

INDEX TO DRAWINGS

SHEET NO.	TITLE	FILE NUMBER
1	COVER SHEET	FILE NO. H-29-17-58(1)
2	MAPPING SHEET	FILE NO. H-29-17-58(2)
3	MAPPING SHEET	FILE NO. H-29-17-58(3)
4	MAPPING SHEET	FILE NO. H-29-17-58(4)
5	MAPPING SHEET	FILE NO. H-29-17-58(5)

The information depicted on this map represents the results of surveys made on the date(s) indicated and can only be considered as indicating the general conditions existing at that time.

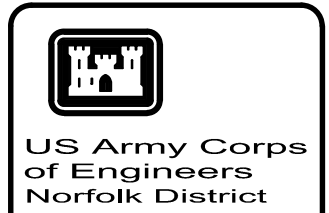
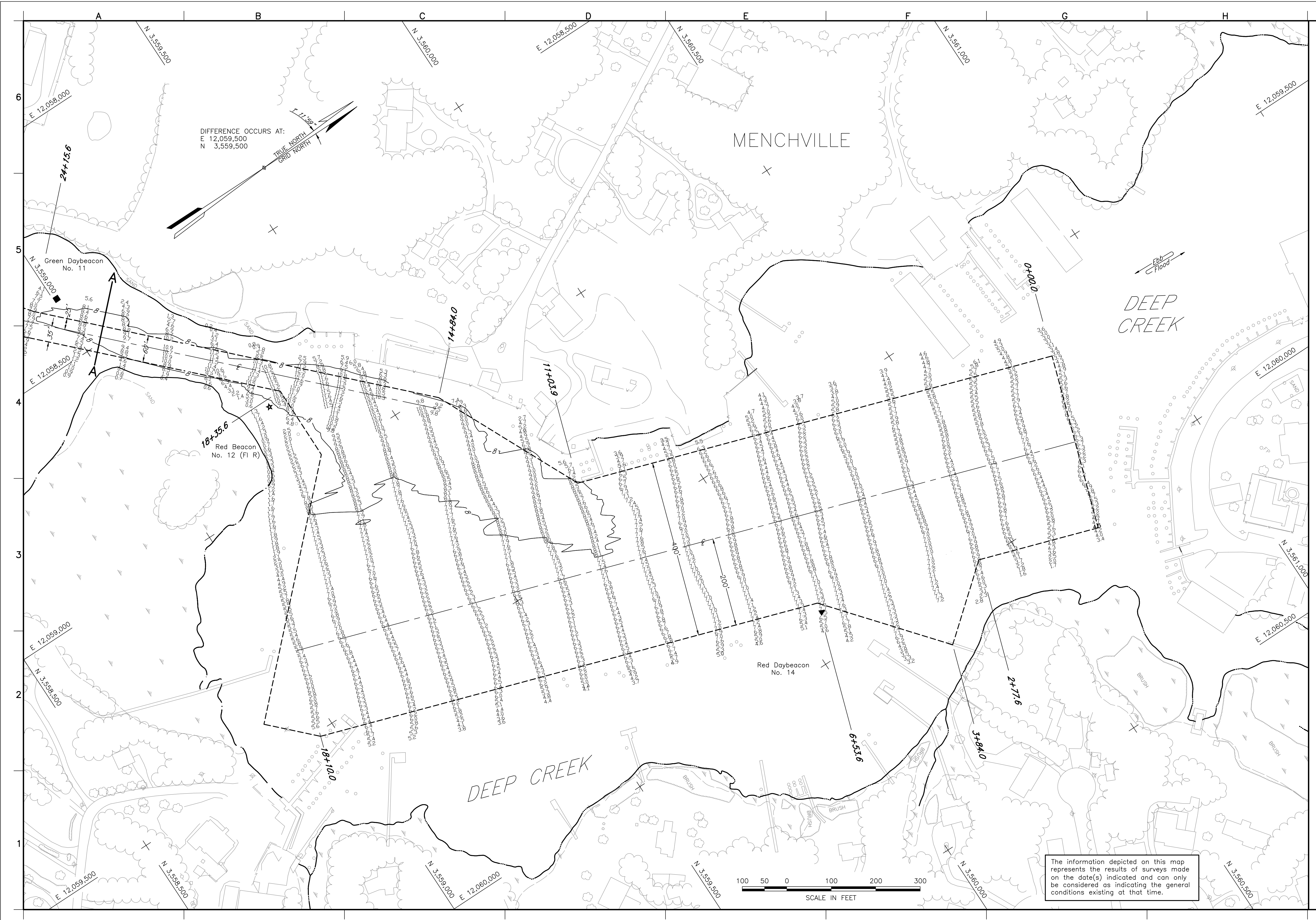
DEPARTMENT OF THE ARMY
NORFOLK DISTRICT, CORPS OF ENGINEERS
NORFOLK, VIRGINIA

REVIEWED: _____ CHIEF, NAVIGATION SUPPORT AND SURVEY SECTION	APPROVED: _____ CHIEF, OPERATIONS BRANCH
SUBMITTED: _____ CHIEF, DESIGN SECTION	APPROVED: _____ CHIEF, WATER RESOURCES DIVISION

SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDICATED ON INDEX TO DRAWINGS.

DESIGNED: _____	CHECKED: _____	DATE: 25 MAR 11
DRAWN: P.J.W.	D.H.S.	AS SHOWN
NORFOLK DISTRICT PROJECT NO. H-29-17-58(1)		
SURVEYED BY: A.M.P.		

**DEEP CREEK
PROJECT CONDITION
SURVEY OF JULY 2010
NEWPORT NEWS, VIRGINIA**

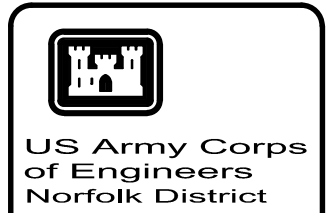
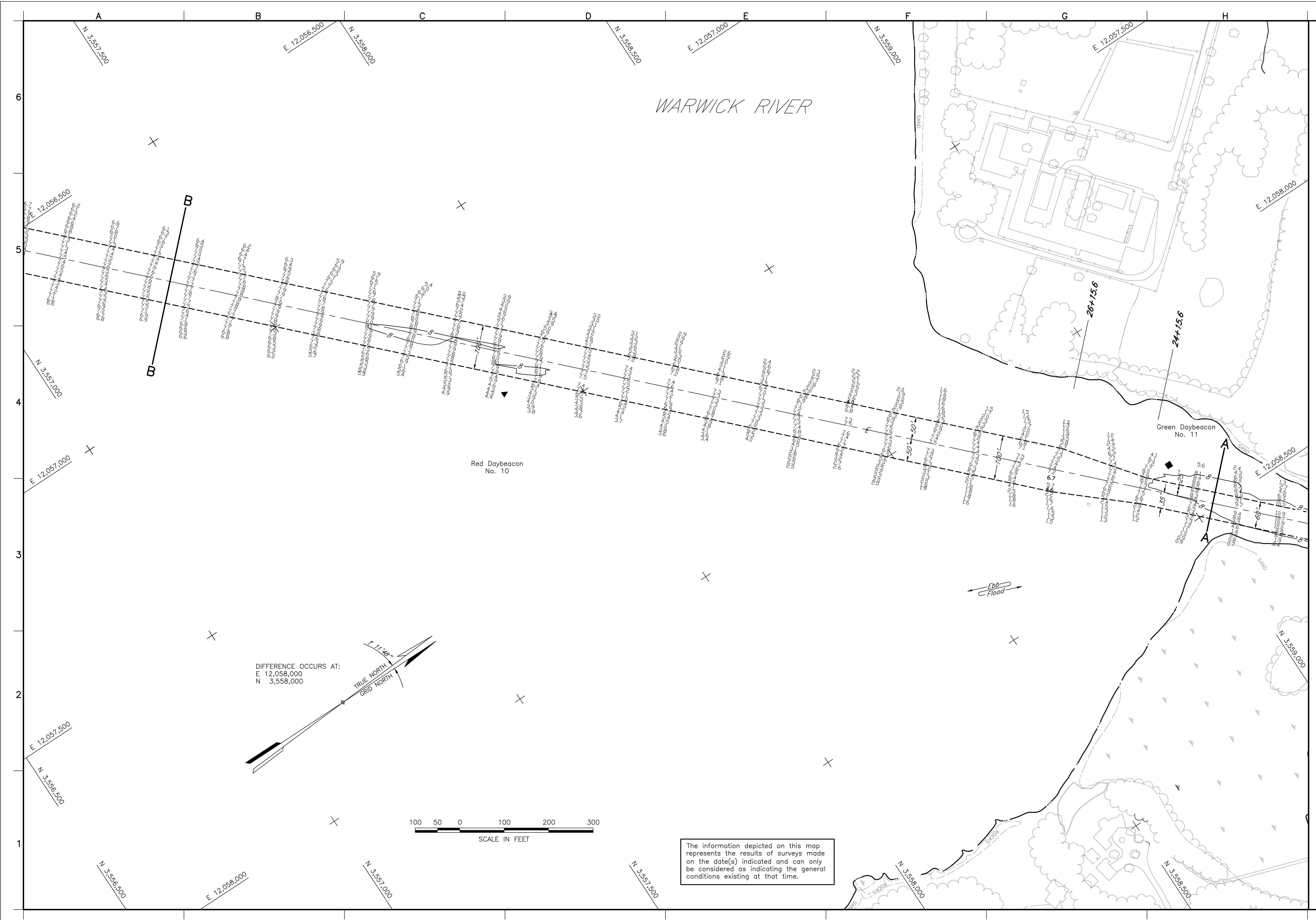


REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED BY:	P.J.W.	DATE:	25 MAR 11
DRAWN BY:	P.J.W.	SCALE:	AS SHOWN
CHECKED BY:	D.H.S.	NORFOLK DISTRICT FILE NO.:	H-29-17-58(2)
PROJECT NO.:		DRAWING NO.:	A.M.P.

NORFOLK DISTRICT
CORPS OF ENGINEERS
NORFOLK, VIRGINIA

**DEEP CREEK
PROJECT CONDITION
SURVEY OF JULY 2010
NEWPORT NEWS, VIRGINIA**



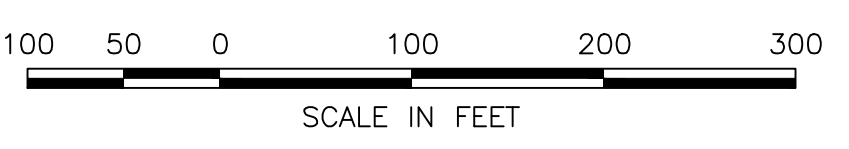
REV.	DATE	DESCRIPTION	BY	APP.

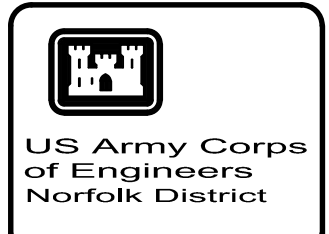
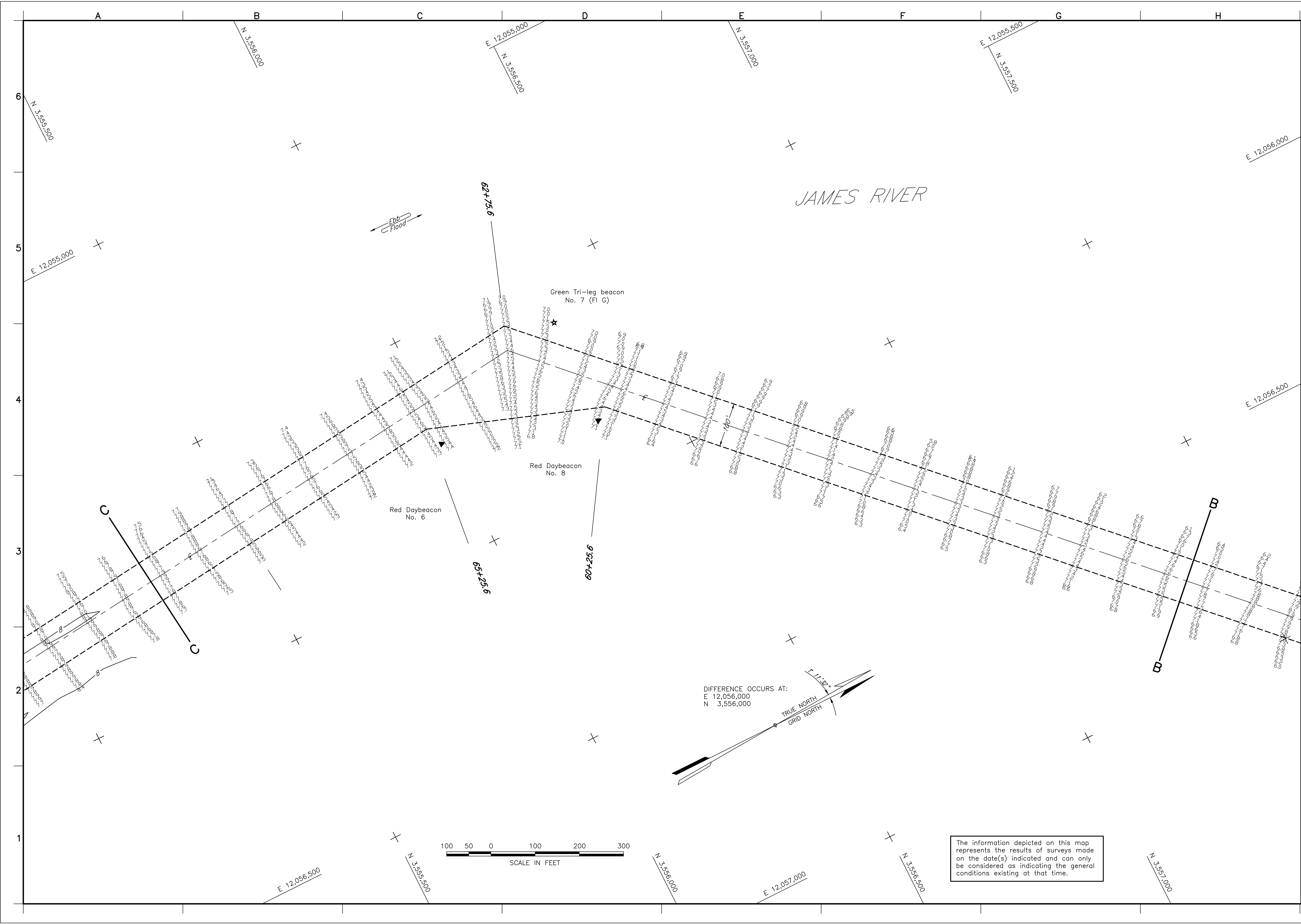
DESIGNED BY: P.J.W.	CHECKED BY: R.J.W.	DATE: 25 MAR 11
DRAWN BY: P.J.W.	DESIGNED BY: D.H.S.	TITLE: AS SHOWN
PROJECT NO.: H-29-17-58(3)	NORFOLK DISTRICT NO.:	
SURVEYED BY: A.M.P.		

DEEP CREEK
PROJECT CONDITION
SURVEY OF JULY 2010
NEWPORT NEWS, VIRGINIA

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DIFFERENCE OCCURS AT:
 E 12,058,000
 N 3,558,000

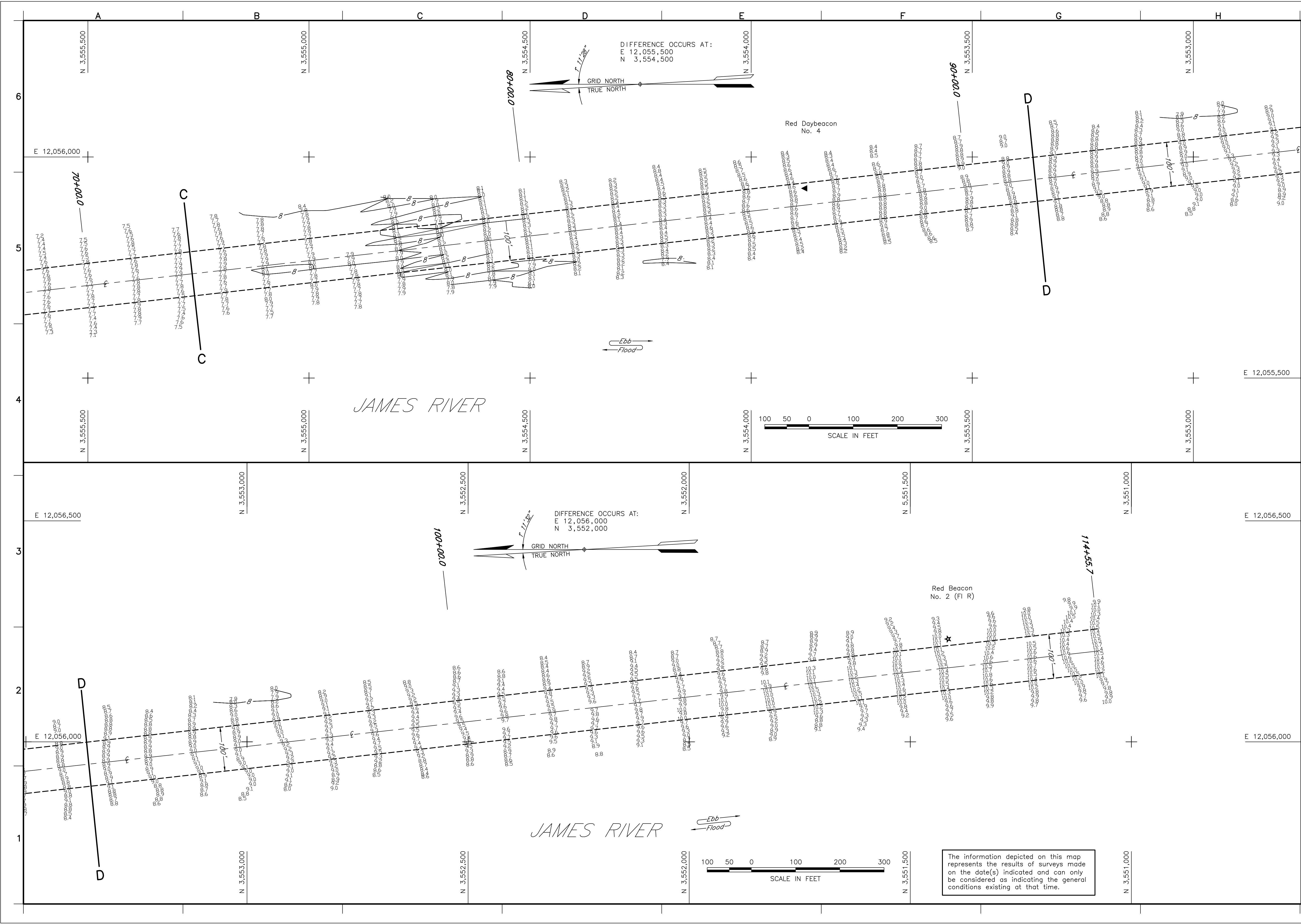




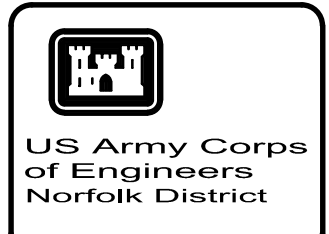
REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED BY:	R.J.W.	DATE:	25 MAR 11
DRAWN BY:	P.J.	ISSUED:	AS SHOWN
CHECKED BY:	D.H.S.	NORFOLK DISTRICT NO.:	H-29-17-58(4)
PROJECT NO.:		DRAWING NO.:	AMP.

**DEEP CREEK
PROJECT CONDITION
SURVEY OF JULY 2010
NEWPORT NEWS, VIRGINIA**



The information depicted on this map represents the results of surveys made on the date(s) indicated and can only be considered as indicating the general conditions existing at that time.



REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED BY: R.J.W.	DATE: 25 MAR 11
DRAWN BY: P.J.W.	SCALE: AS SHOWN
CHECKED BY: D.H.S.	NORFOLK DISTRICT NO.: H-29-17-58(5)
PROJECT NO.:	DRAWING NO.:
SURVEYED BY: A.M.P.	

**DEEP CREEK
PROJECT CONDITION
SURVEY OF JULY 2010
NEWPORT NEWS, VIRGINIA**