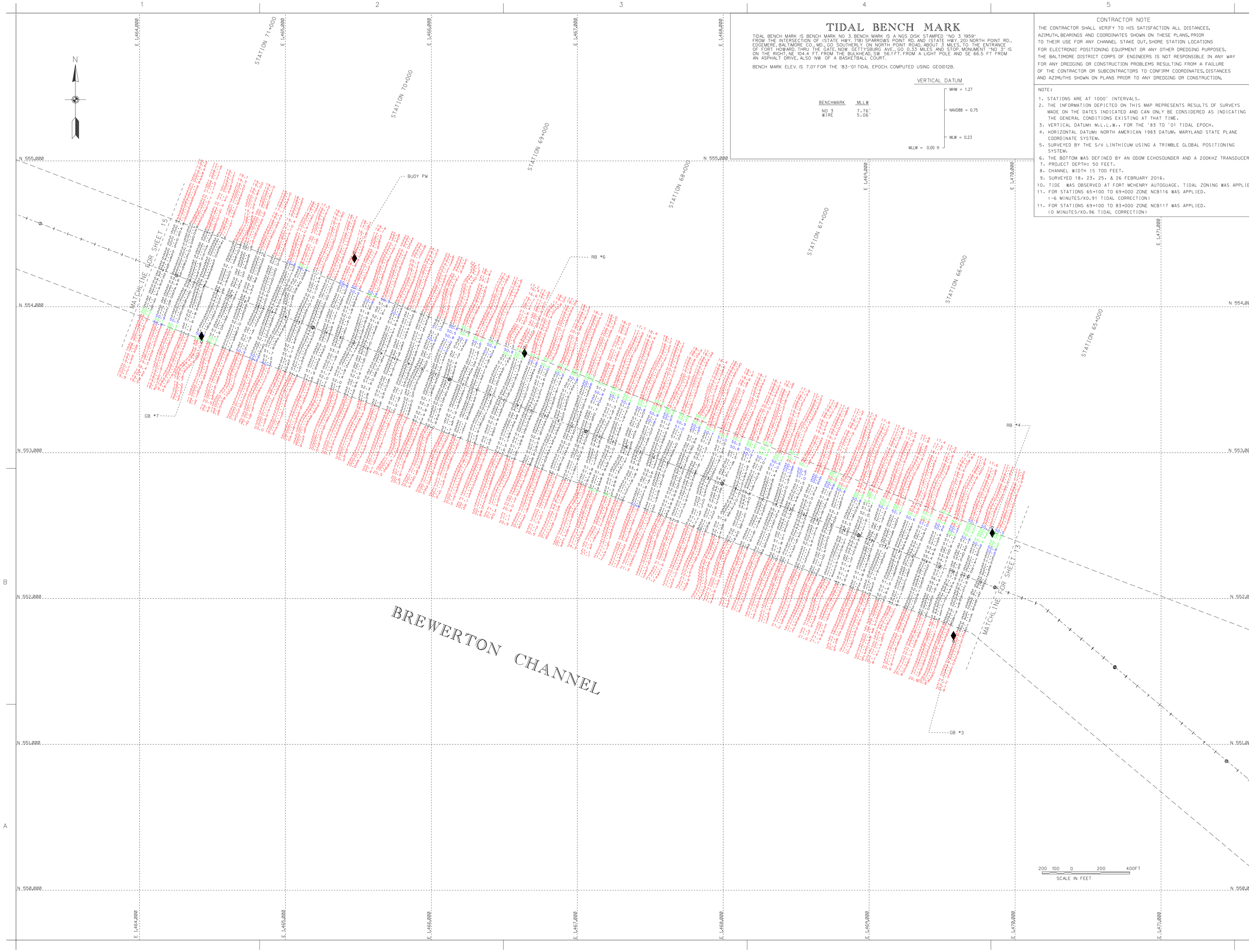

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK NO 3. BENCH MARK IS A NGS DISK STAMPED "NO 3 1959" FROM THE INTERSECTION OF (STATE HWY. 718) SPARROWS POINT RD. AND (STATE HWY. 20) NORTH POINT RD., EDGEMERE, (BALTIMORE CO.,MD.,GO SOUTHERLY ON NORTH POINT ROAD, ABOUT 3 MILES, TO THE ENTRANCE OF FORT HOWARD. THRU THE GATE, NOW GETTYSBURG AVE., GO 0.33 MILES AND STOP. MONUMENT "NO 3" IS ON THE RIGHT, NE 104.4 FT. FROM THE BULKHEAD, SW 56.1 FT. FROM A LIGHT POLE AND SE 66.5 FT FROM AN ASPHALT DRIVE, ALSO NW OF A BASKETBALL COURT.

BENCH MARK ELEV. IS 7.01 FOR THE '83-'01 TIDAL EPOCH. COMPUTED USING GEOID12B.

BENCHMARK	MLLW
NO 3	7.76'
WIRE	5.06'

VERTICAL DATUM

- MHW = 1.27
- NAVD88 = 0.75
- MLW = 0.23
- MLLW = 0.00 ft

CONTRACTOR NOTE

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NOTE:

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2. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. VERTICAL DATUM: MLL.L.W.' FOR THE '83 TO '01 TIDAL EPOCH.
4. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM, MARYLAND STATE PLANE COORDINATE SYSTEM.
5. SURVEYED BY THE S/V LINTHICUM USING A TRIMBLE GLOBAL POSITIONING SYSTEM.
6. THE BOTTOM WAS DEFINED BY AN ODOM ECHOSOUNDER AND A 200KHZ TRANSDUCER.
7. PROJECT DEPTH: 50 FEET.
8. CHANNEL WIDTH IS 700 FEET.
9. SURVEYED 18, 23, 25, & 26 FEBRUARY 2016.
10. TIDE WAS OBSERVED AT FORT MCHENRY AUTOGUAGE. TIDAL ZONING WAS APPLIED.
11. FOR STATIONS 65+100 TO 69+000 ZONE NCB116 WAS APPLIED. (-6 MINUTES/X0.91 TIDAL CORRECTION)
11. FOR STATIONS 69+100 TO 83+000 ZONE NCB117 WAS APPLIED. (0 MINUTES/X0.96 TIDAL CORRECTION)

US Army Corps of Engineers
District or Division

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

Rev.	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: DMC
Dwn by: DMC
Ckd by: DMC
Reviewed by: DMC
Submitted by: Chief, Arch. Branch
Date: March '16
Design file no: C:\Tidal\V-114.dgn
Drawing code: N/A
Rev.
File name: H:\BC_2016\01A
Proj. date:
Proj. scale:

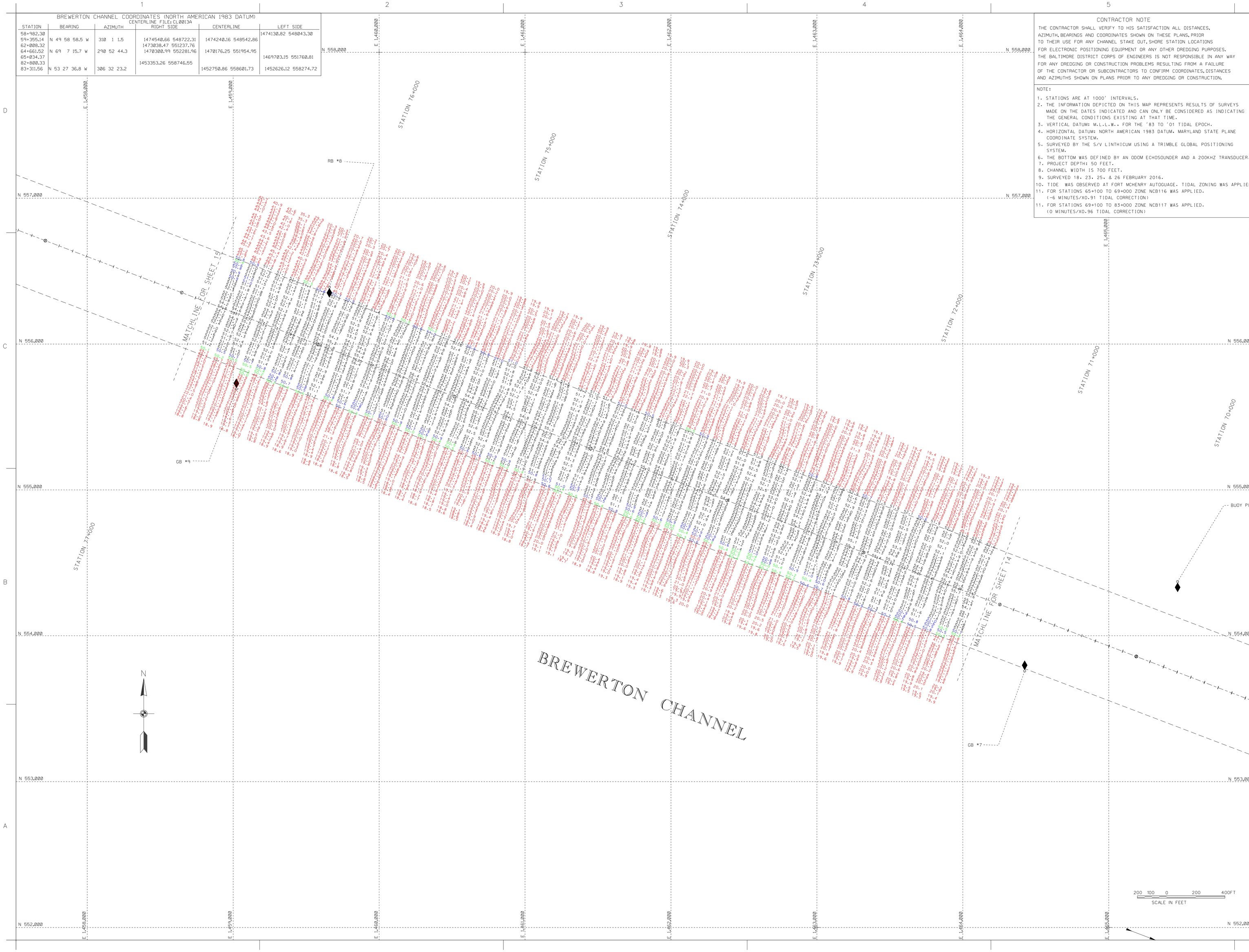
BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
BREWERTON CHANNEL
STATIONS 65+00 TO 71+00

Sheet reference number:
V-114
Sheet 14 of 59

BREWERTON CHANNEL COORDINATES (NORTH AMERICAN 1983 DATUM)
CENTERLINE FILE: CL0013A

STATION	BEARING	AZIMUTH	RIGHT SIDE	CENTERLINE	LEFT SIDE
58+982.30					1474130.82 548843.30
59+355.14	N 49 58 58.5 W	310 1 1.5	1474540.66 548722.31	1474240.16 548542.86	
62+008.32			1473038.47 551237.76		
64+661.52	N 69 7 15.7 W	290 52 44.3	1470300.99 552281.96	1470176.25 551954.95	
65+034.37					1469703.15 551760.81
82+800.33			1453353.26 558746.55		
83+311.56	N 53 27 36.8 W	306 32 23.2		1452750.86 558601.73	1452626.12 558274.72



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US Army Corps of Engineers
District or Division

Mark	Description	Date	Appr.

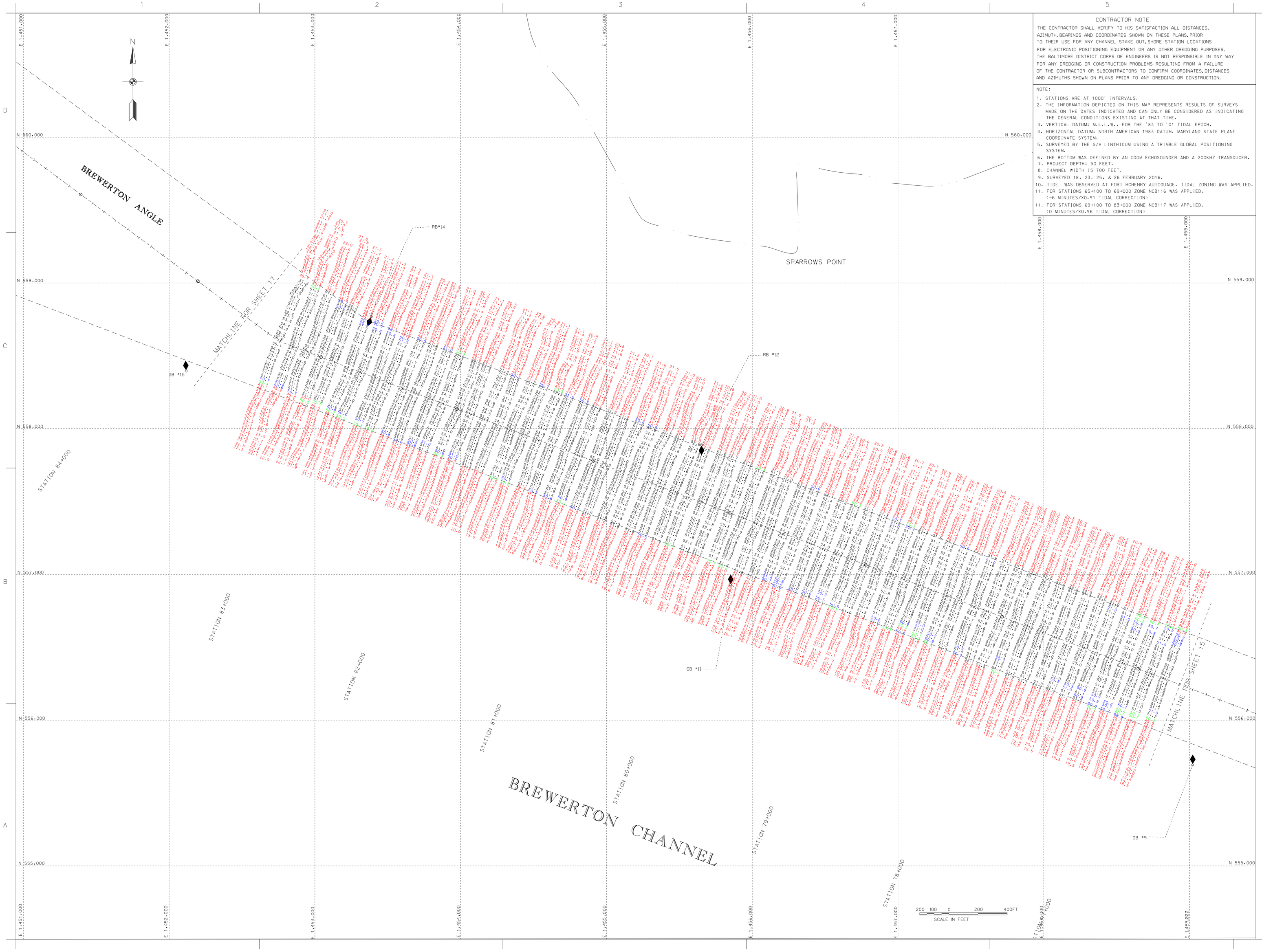
Designed by:	Date: MARCH '16
Dwn by: JLP	Design file no: F-E17 MAP-S-S48
Ckd by: SWC	Plot date:
Reviewed by: SWC	Plot scale:
Submitted by:	File name: BA_MC_20160325
Chief, Hyd. Branch	

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
BREWERTON CHANNEL
STATIONS 77+200 TO 76+700

Sheet reference number:
V-115
Sheet 15 of 59



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: LJB
Cnd by: LJB
Reviewed by: SMC
Submitted by:
Chief, Nav. Branch
Date: March 2016
Design file no: CB116-117-MB1
Drawing code:
Rev.
File name: B_NC_20160226
Plot date:
Plot scale:

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
BREWERTON CHANNEL
STATION 78+000 TO 85+300

Sheet reference number:
V-116
Sheet 16 of 59