NANTICOKE RIVER

CONDITION SURVEY

SUSSEX COUNTY, DELAWARE

DORCHESTER AND WICOMICO COUNTIES, MARYLAND

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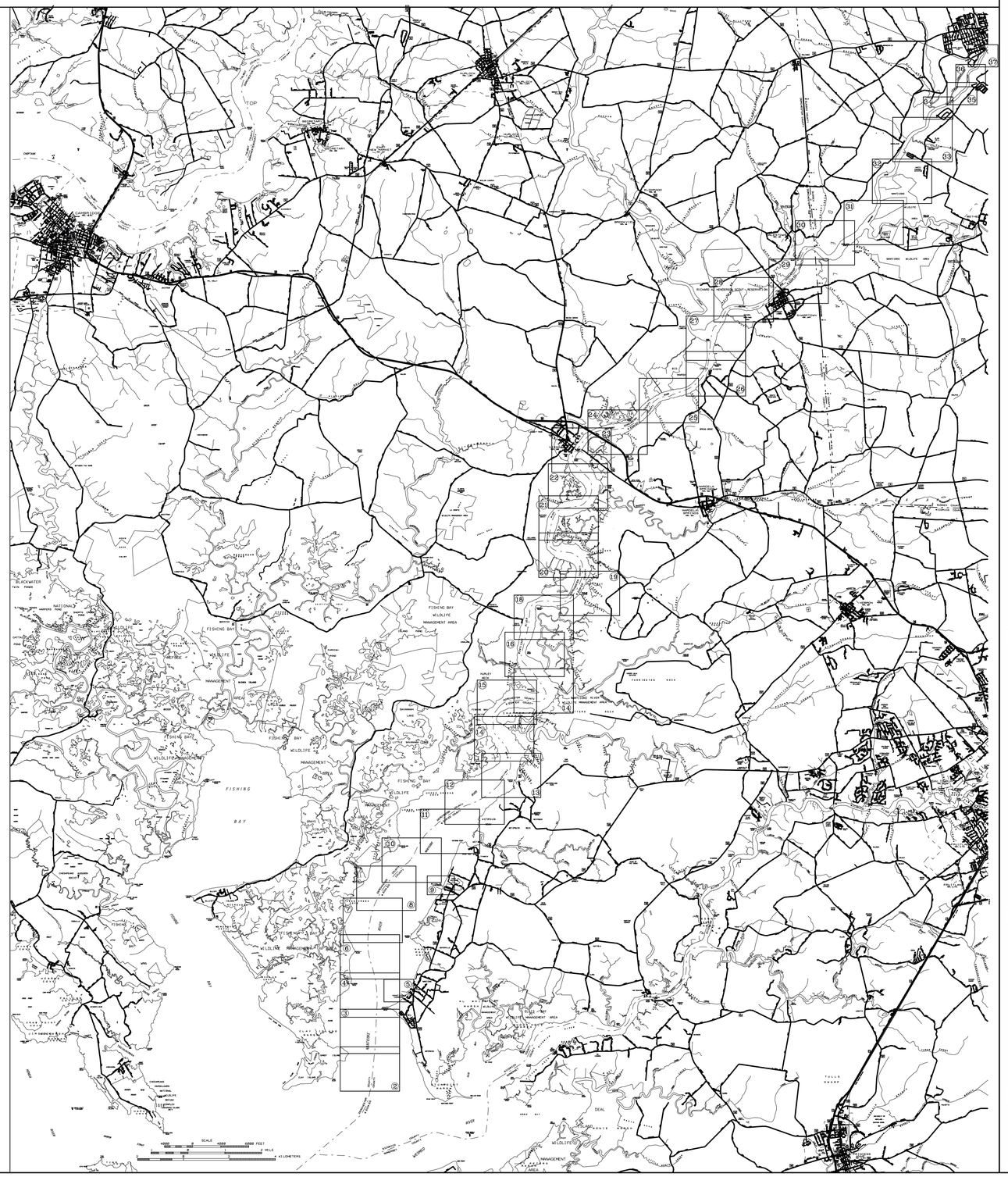


US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Date: JANE 08
Scale: 1:24000
FILE: 2 MAP: 08-020

Designed by: N/A
Drawn by: JAN
Checked by: JAN
Reviewed by: SSD
Approved by:
Chief, Des. Branch:

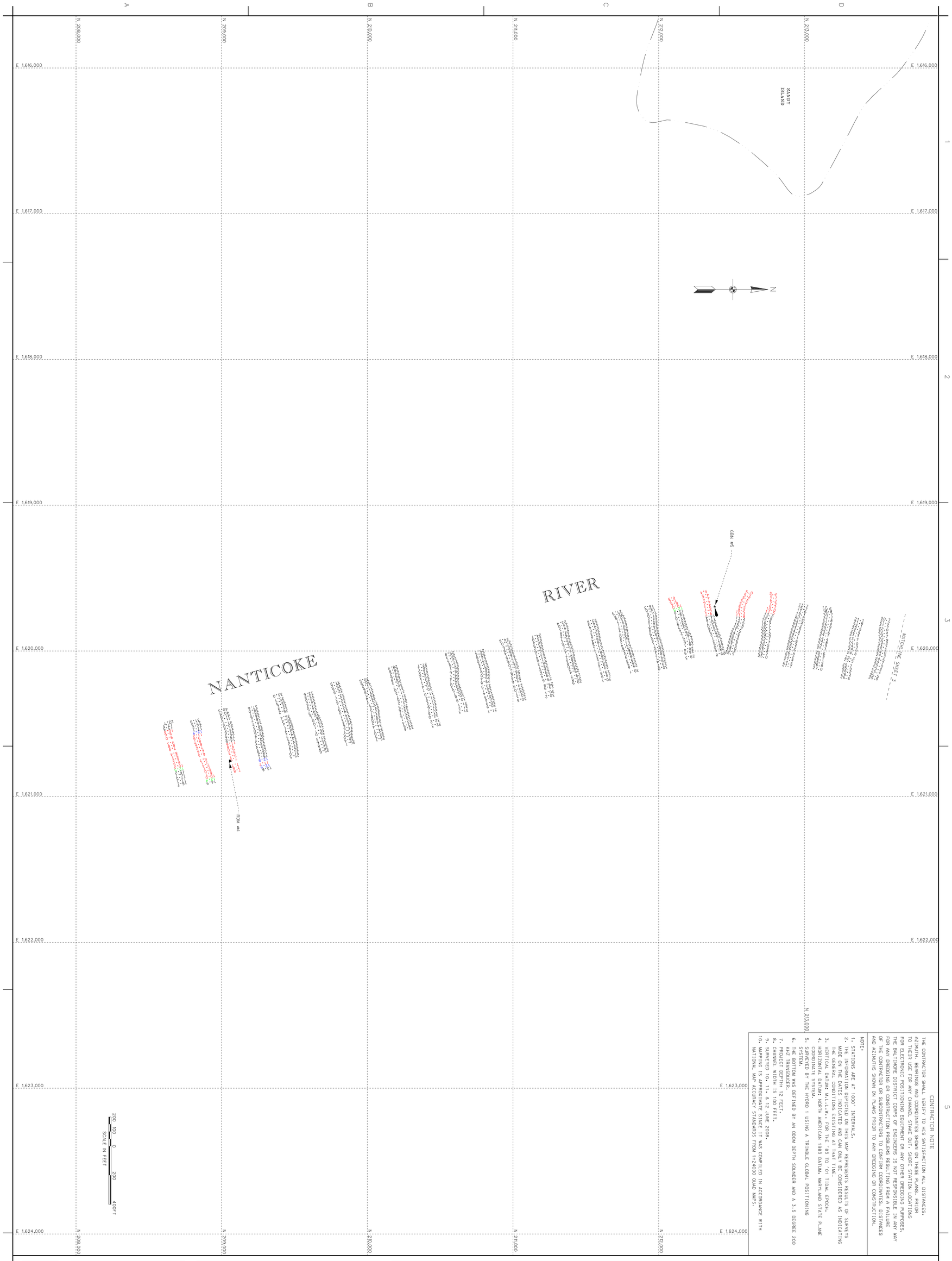
Drawing code:
File name:P:\DCS\JANE\CVE
Plot date:
Plot scale:
File location:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V-101
Sheet 1 of 37



CONTRACTOR NOTE

THE CONTRACTOR SHALL VERIFY TO HIS SATISFACTION ALL DISTANCES, AZIMUTH, BEARINGS AND COORDINATES SHOWN ON THESE PLANS, PRIOR TO THEIR USE FOR ANY CHANNEL STAKE OUT, SHORE STATION LOCATIONS FOR ELECTRONIC POSITIONING EQUIPMENT OR ANY OTHER DREDGING PURPOSES. THE BALTIMORE DISTRICT CORPS OF ENGINEERS IS NOT RESPONSIBLE IN ANY WAY FOR ANY DREDGING OR CONSTRUCTION PROBLEMS RESULTING FROM A FAILURE OF THE CONTRACTOR OR SUBCONTRACTORS TO CONFIRM COORDINATES, DISTANCES AND AZIMUTHS SHOWN ON PLANS PRIOR TO ANY DREDGING OR CONSTRUCTION.

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: M.L.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 HYDRO 1 USING A TRIMBLE GLOBAL POSITIONING SYSTEM.
6. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE 200 KHZ TRANSDUCER.
7. PROJECT DEPTH: 12 FEET.
8. CHANNEL WIDTH IS 100 FEET.
9. SURVEYED 10, 11, & 12 JUNE 2008.
10. MAPPING IS APPROXIMATE SINCE IT WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FROM 1:24000 QUAD MAPS.

Sheet reference number: V 102
Sheet 2 of 37

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

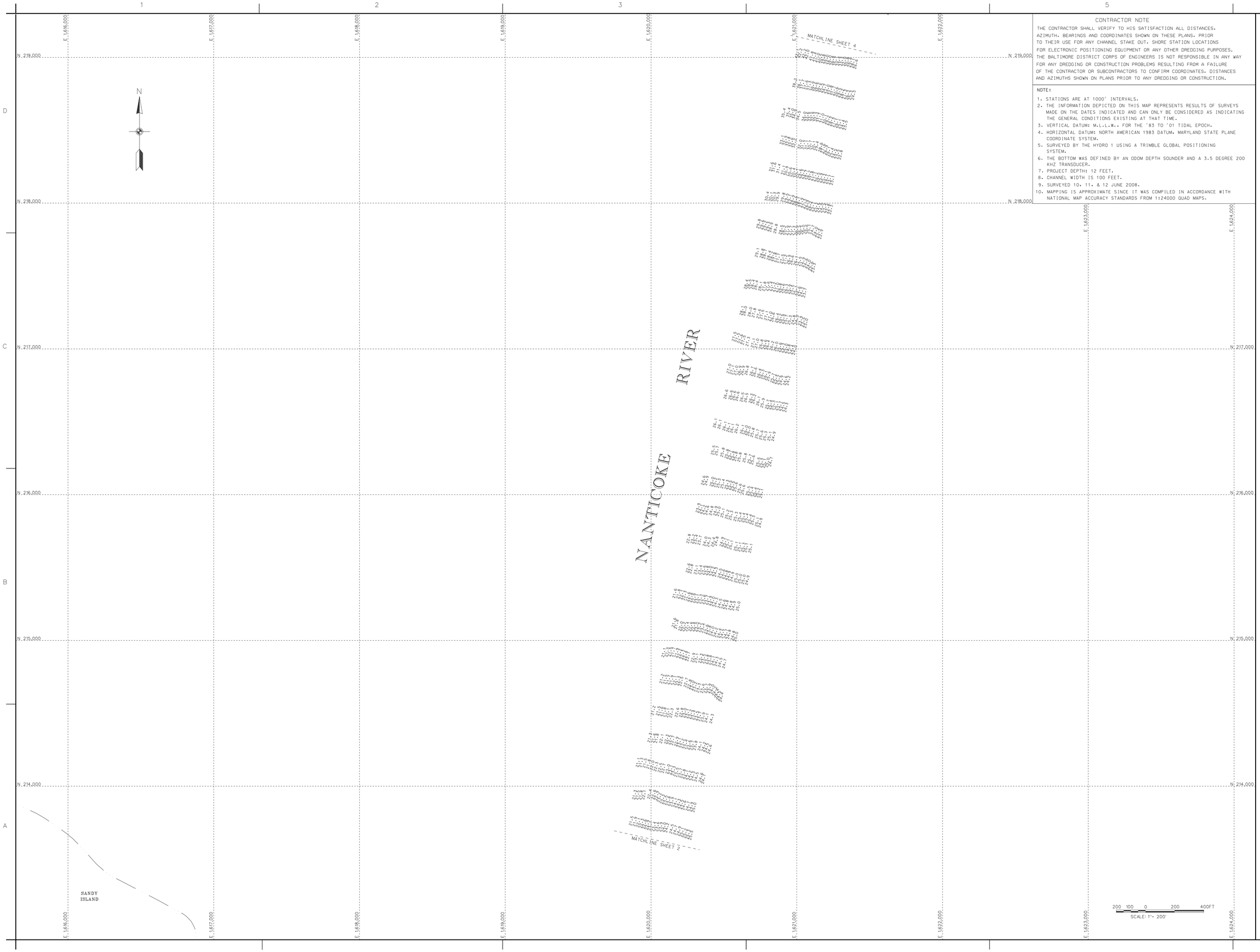
CONDITION SURVEY
NANTICOKE RIVER

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:		Date: JUNE '08	Rev.
Dwn by: JAH	Ckd by: SMG	Design file no. FILE: 02 MAP: 8-021	
Reviewed by: SMG		Drawing code:	
Submitted by:		File name: SHD1C037JUNE1208	
Chief, Nav. Branch		Plot date: Plot scale:	

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

US Army Corps of Engineers
Baltimore District



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

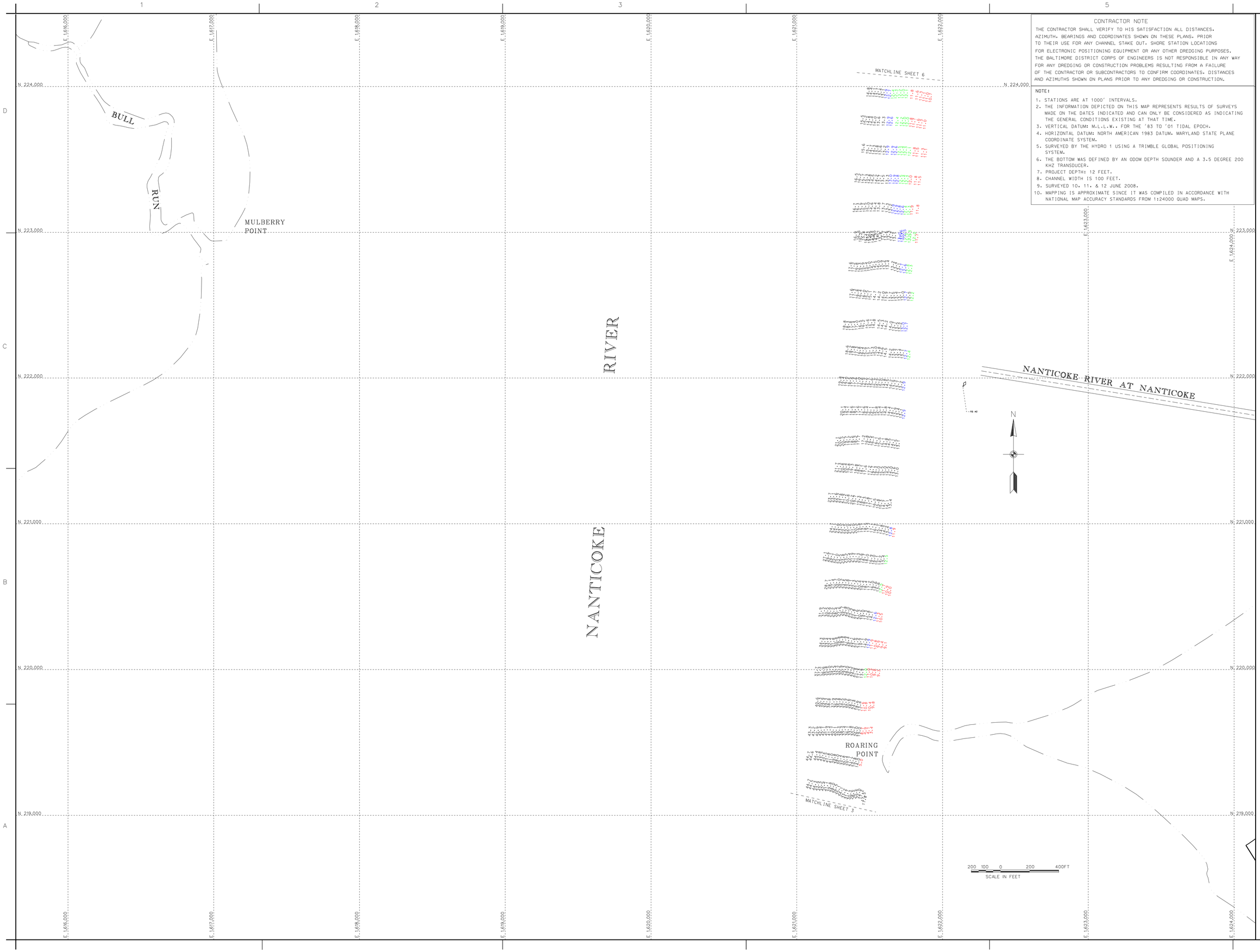
Designed by:
Dwn by: JAH
Ckd by: SMG
Reviewed by: SMG
Submitted by:
Chief, Hyd Branch

Date: JUNE 08
Scale: N.A.
Drawing code: FILE: D2
File name: PHASD2STUVUE.DGN
Plot date:
Plot scale:
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 103
Sheet 3 of 37



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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: JAH
Ckd by: SMD
Reviewed by: SMD
Submitted by: CHAN
Date: JUNE 2008
Scale: AS SHOWN
Plot date:
Plot scale:
Drawing code:
File name: SHEET003.DWG
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 104
Sheet 4 of 37

NANTICOKE RIVER AT NANTICOKE CHANNEL COORDINATES

CENTERLINE FILE: CL2417A

STATION	BEARING	AZIMUTH	RIGHT SIDE	CENTERLINE	LEFT SIDE
0.00	S 80 46 58.1 E	99 13 1.9	1622260.76 222019.80	1622265.57 222049.41	1632270.38 222079.38
2+821.99			1625046.32 221567.76		
2+936.99	S 51 46 57.7 E	128 13 2.3		1621154.64 221578.95	1625177.10 221607.32
3+051.99			1625236.44 221484.24		
3+176.99			1625334.65 221486.90		
3+336.99	S 38 13 2.0 W	218 13 2.0		1625478.98 221331.49	
3+366.99					1625544.62 221317.94
3+466.99			1112927.40 160517.94		
3+787.00			1625202.88 221077.91	1625250.02 221040.79	1625297.16 221003.67

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK 1477D.
BENCH MARK IS A STAINLESS STEEL ROD MARKED "1477 D 1981"
THE BENCH MARK IS 180.5' SSE FROM BENCH MARK 1477 C 1981,
133' SSE FROM THE SW CORNER OF NANTICOKE SEAFOOD COMPANY
BUILDING (NSFC), 85' SW OF THE WEST CORNER OF A BOAT BASIN SEAWALL
AND 16' SSW FROM THE TELEPHONE POLE #37896 89685 437AE74. THE
BENCHMARK IS CRIMPED TO THE TOP OF A STAINLESS STEEL ROD DRIVEN
TO REFUSAL AT A DEPTH OF 48'.

BENCHMARK ELEV. IS 6.86' ABOVE MLLW FOR THE '60-'78 TIDAL EPOCH.

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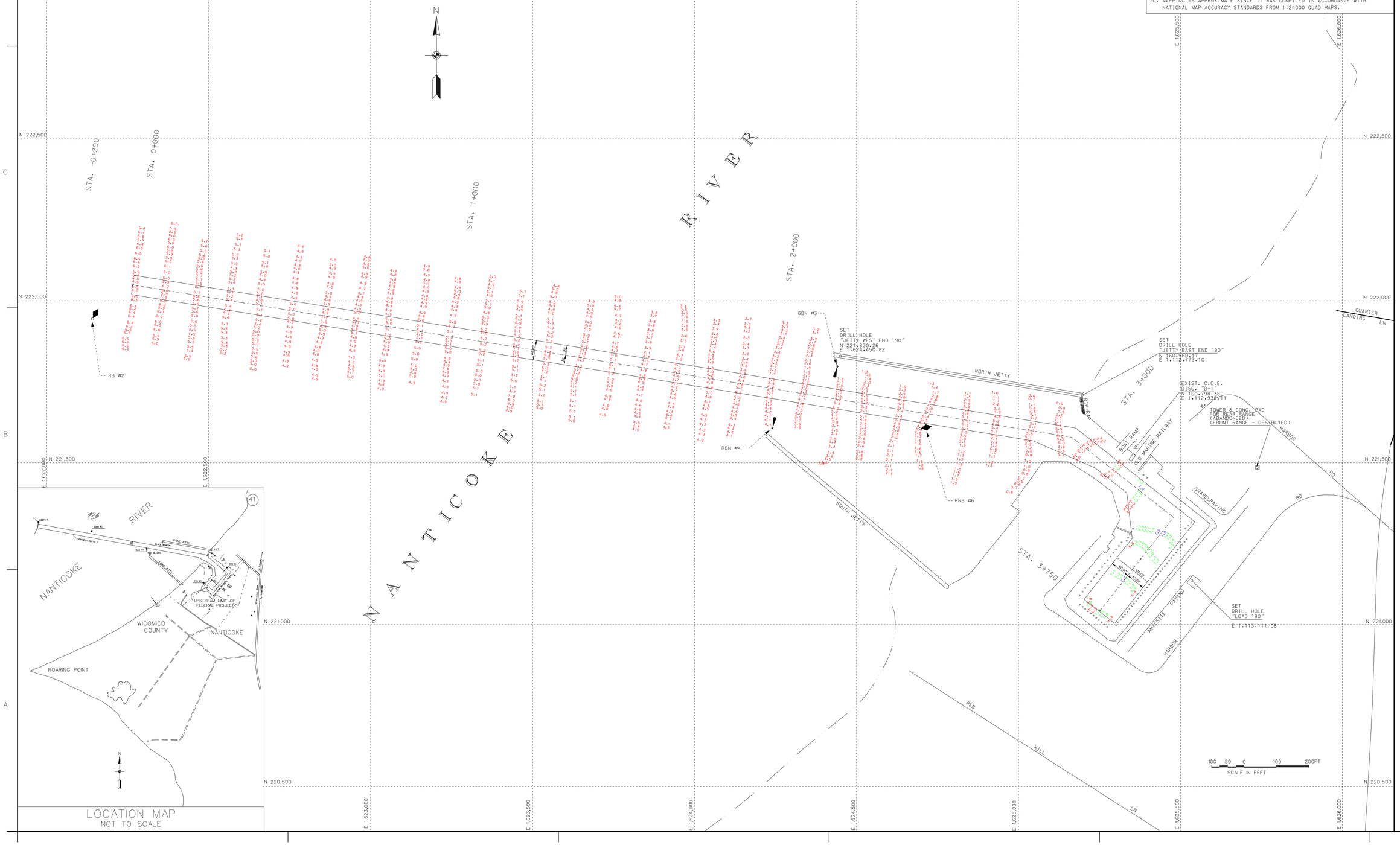
4. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM. MARYLAND STATE PLANE COORDINATE SYSTEM.
5. SURVEYED BY THE HYDRO 2 USING A TRIMBLE GLOBAL POSITIONING SYSTEM.
6. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE 200 KHZ TRANSDUCER.
7. PROJECT DEPTH: 7 FEET.
8. CHANNEL WIDTH IS 60 & 120 FEET.
9. SURVEYED 17 JUNE 2008..
10. MAPPING IS APPROXIMATE SINCE IT WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FROM 1:24000 QUAD MAPS.



LOCATION MAP
NOT TO SCALE

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

Scale: JUNE 08
Contract No.: FILE 02
Drawing scale: 1"=100'
File name: JOB02017JUNE17.DB
Plot date:
Plot scale:

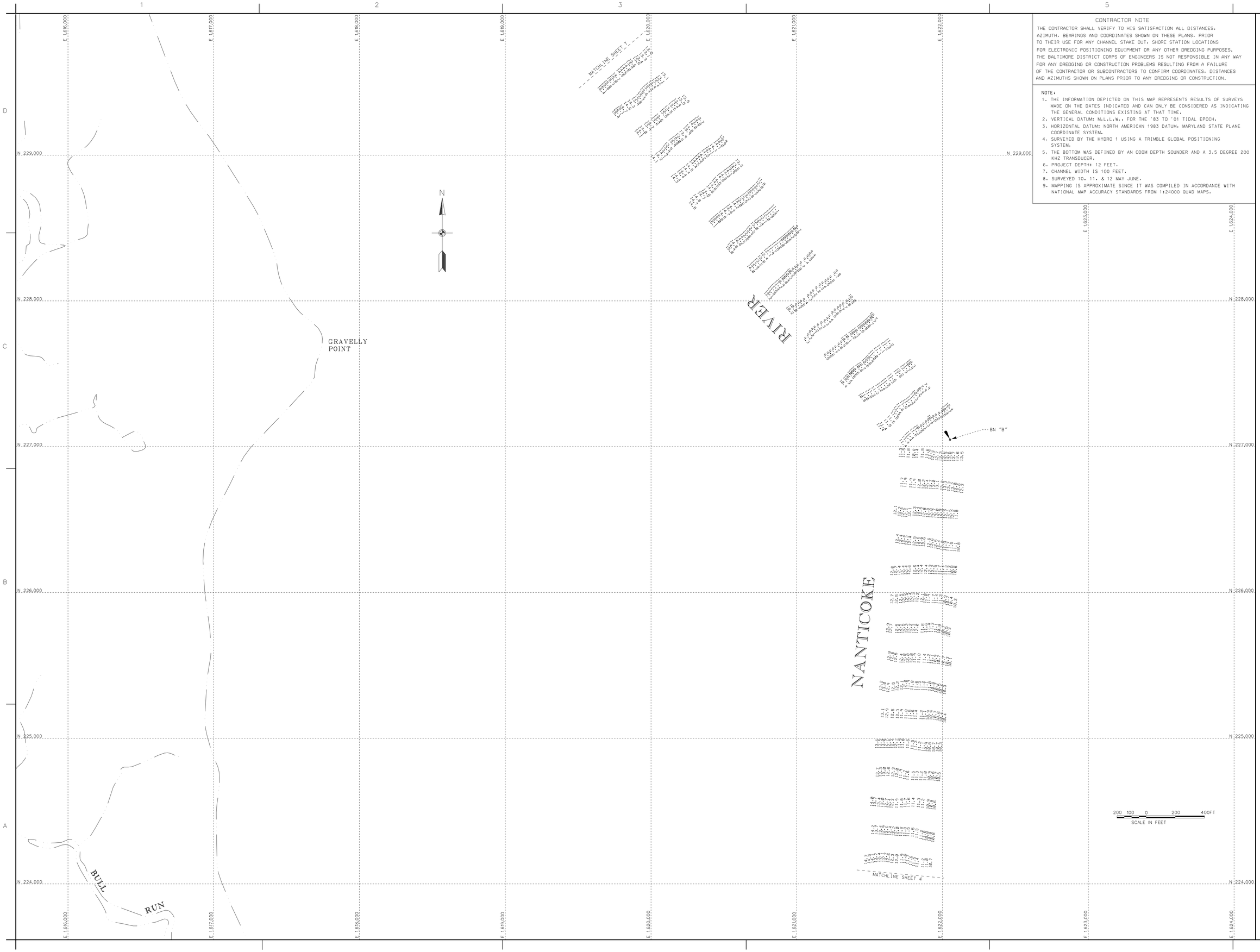
Designed by:
Dwn by: JAH
Reviewed by: SMG
Submitted by:
Chief, Hydr. Branch

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

WICOMICO COUNTY
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER AT NANTICOKE
STATION -0+200 TO 3+750

Sheet reference number:
V-105
Sheet 5 of 37



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6. PROJECT DEPTH: 12 FEET.
7. CHANNEL WIDTH IS 100 FEET.
8. SURVEYED 10, 11, & 12 MAY JUNE.
9. MAPPING IS APPROXIMATE SINCE IT WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FROM 1:24000 QUAD MAPS.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

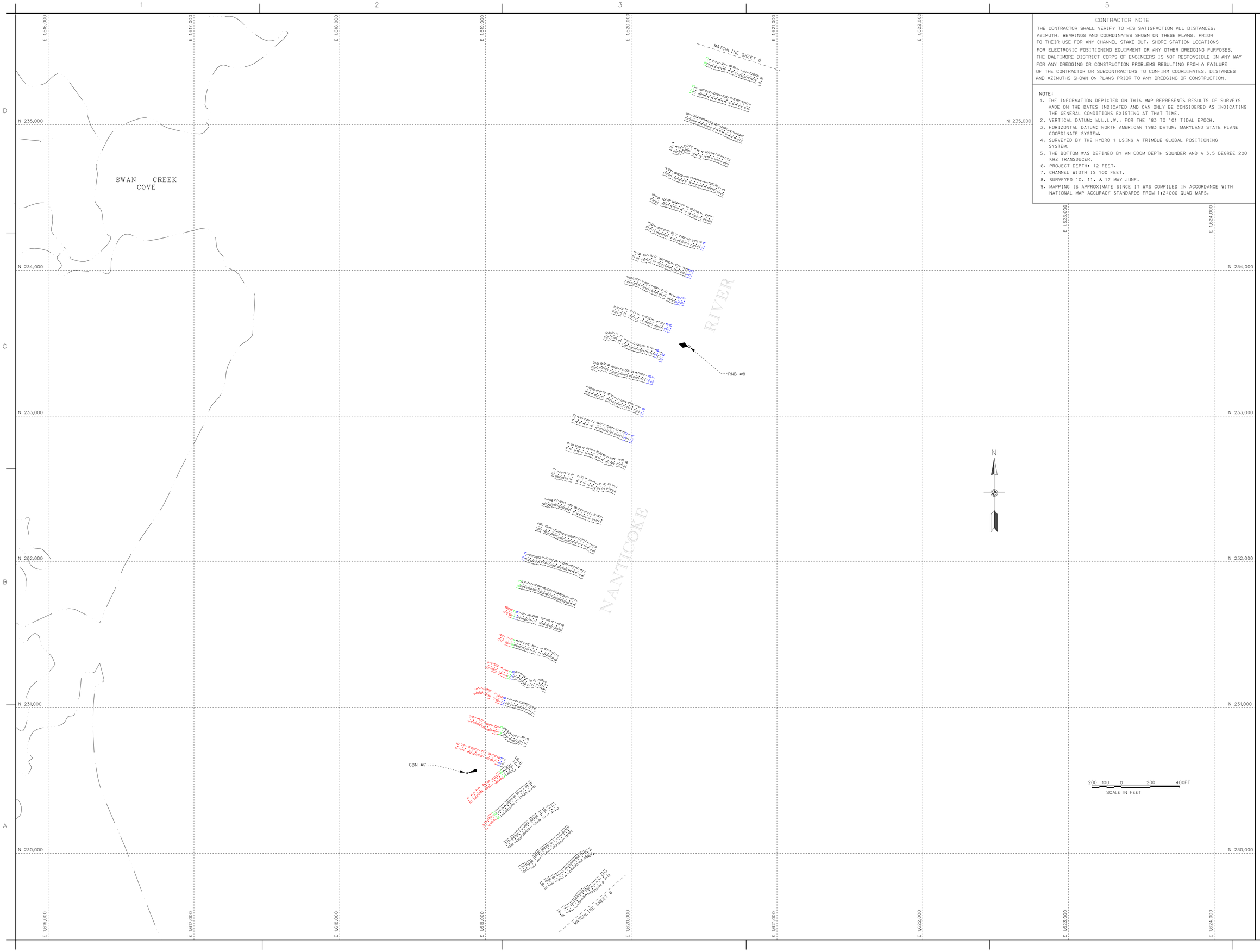
Designed by:
Dwn by: JAH
Ckd by: SMG
Reviewed by: SMG
Submitted by:
Chief, Hydro Branch

Date: JUNE 08
Scale: 1:24000
FILE: 02 MAP: 8-025
Drawing code:
File name: SHEET02JUNE0208
Plot date:
Plot scale:
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 106
Sheet 6 of 37



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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

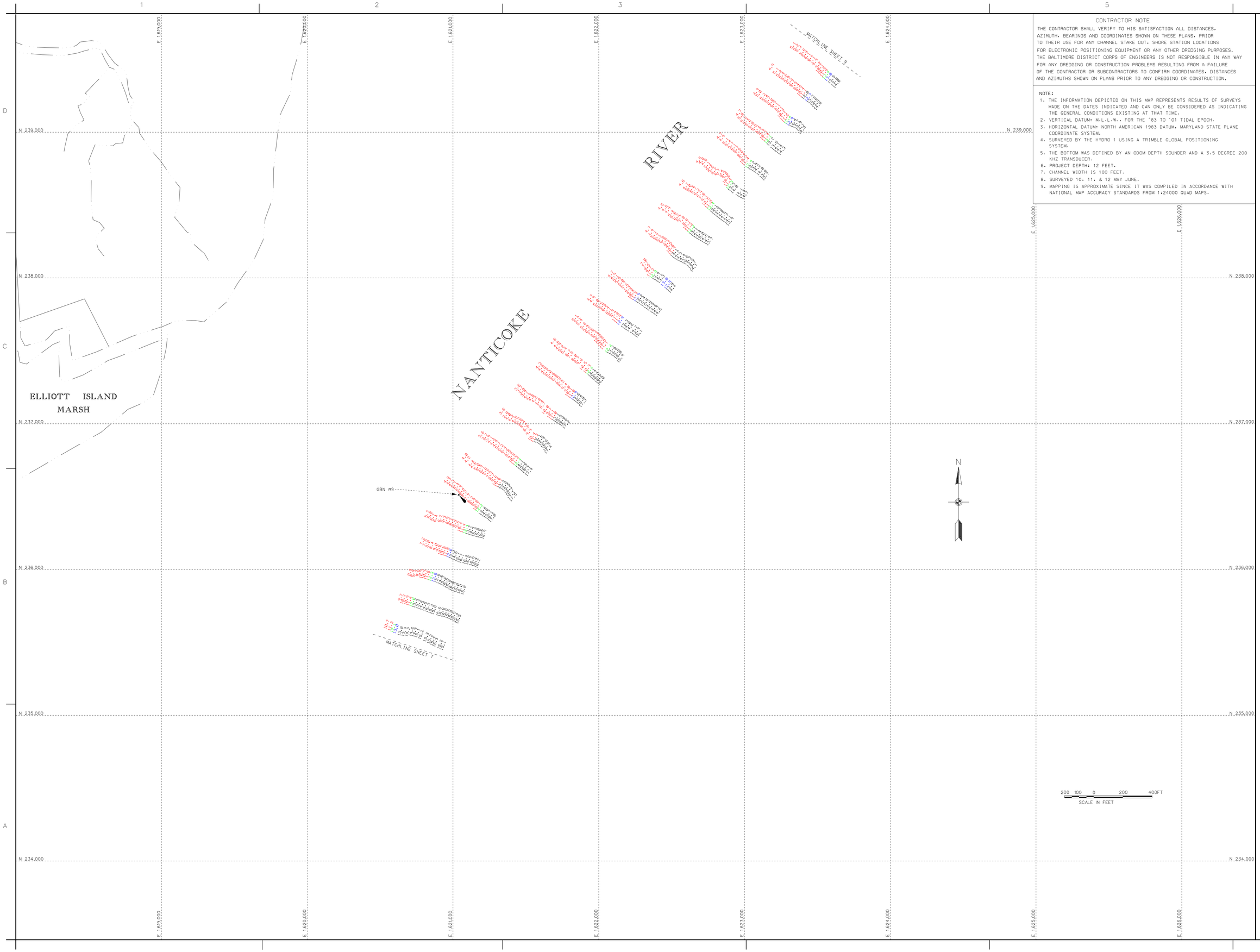
Designed by:
Dwn by: JAH
Ckd by: SMD
Reviewed by: SMD
Submitted by:
Chief, Hyd. Branch

Date: JUNE 1-08
Scale: As shown
FILE: D2
Drawing code: MAP: 8-026
File name: SHEETCOS17JUNE1CORE
Plot date:
Plot Scale:
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 107
Sheet 7 of 37



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US Army Corps of Engineers
Baltimore District

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Mark	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: Dwn by JAH | Ckd by SMC
Reviewed by SMC | Submitted by Chief, Hyd. Branch
Date: JUNE 10 | Scale: AS FILE 02 | MAPS 8-QT
Drawing code:
File name: 24PR0337.JAE.DGN
Plot date:
Plot scale:
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 108
Sheet 8 of 37

NANTICOKE @ BIVALVE CHANNEL COORDINATES

CENTERLINE FILE:CL0407A

STATION	BEARING	AZIMUTH	RIGHT SIDE	CENTERLINE	LEFT SIDE
0+000.00	S 70 06 48.41 E	109 53 11.6	1629053.70 236993.99	1629063.90 237022.20	1629074.10 237050.41
1+465.03					1630451.79 236552.06
1+465.03					1630482.39 236636.70
1+815.03			1630760.50 236376.59	1630770.70 236404.80	1630811.52 236517.64

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK 1477D.
BENCH MARK IS A STAINLESS STEEL ROD MARKED "1477 D 1981"
THE BENCH MARK IS 180.5' SSE FROM BENCH MARK 1477 C 1981,
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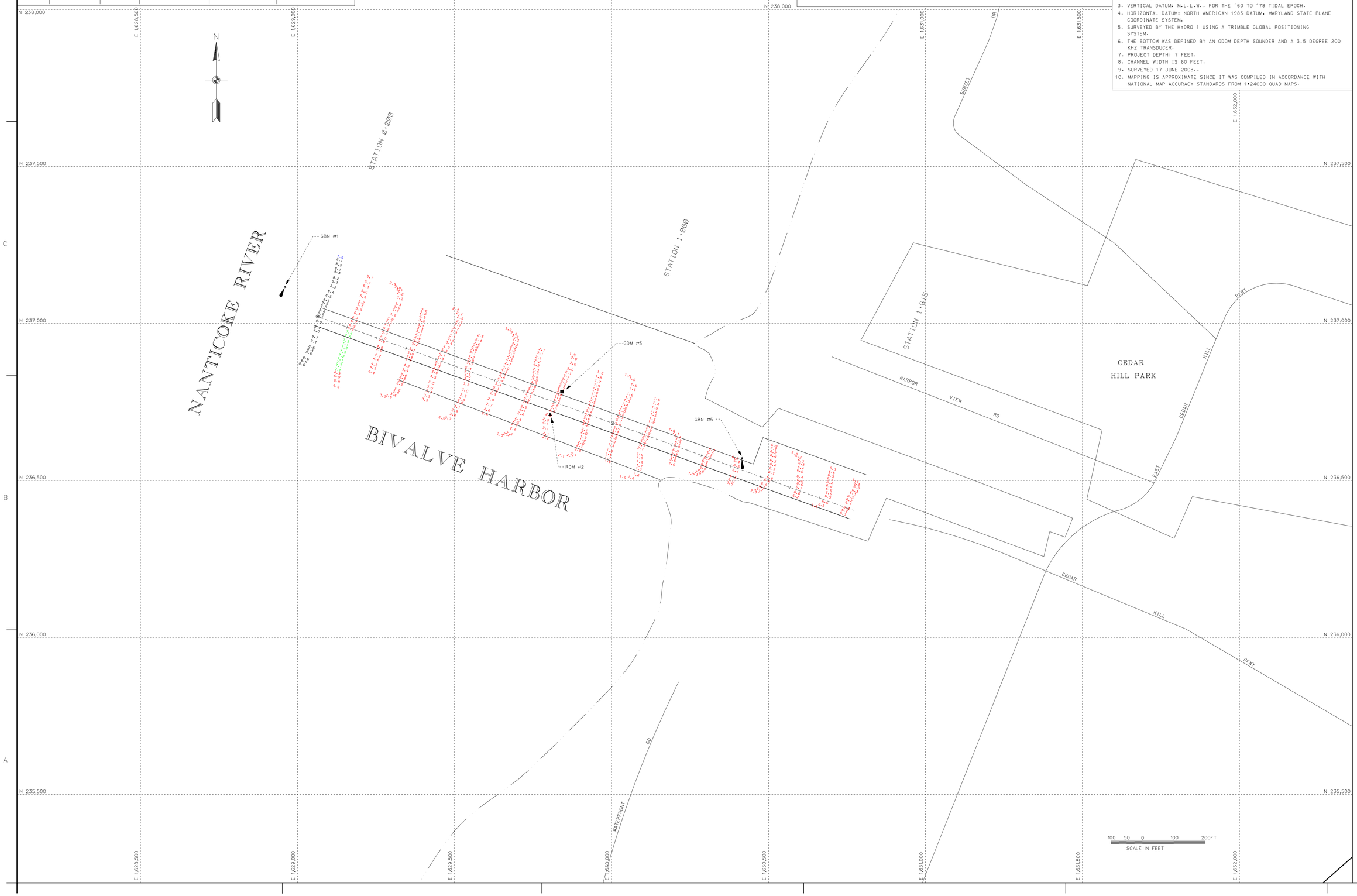
7. PROJECT DEPTH: 7 FEET.
8. CHANNEL WIDTH IS 60 FEET.
9. SURVEYED 17 JUNE 2008..
10. MAPPING IS APPROXIMATE SINCE IT WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FROM 1:24000 QUAD MAPS.



US Army Corps of Engineers
Baltimore District

Mark	Date	Appr.	Description

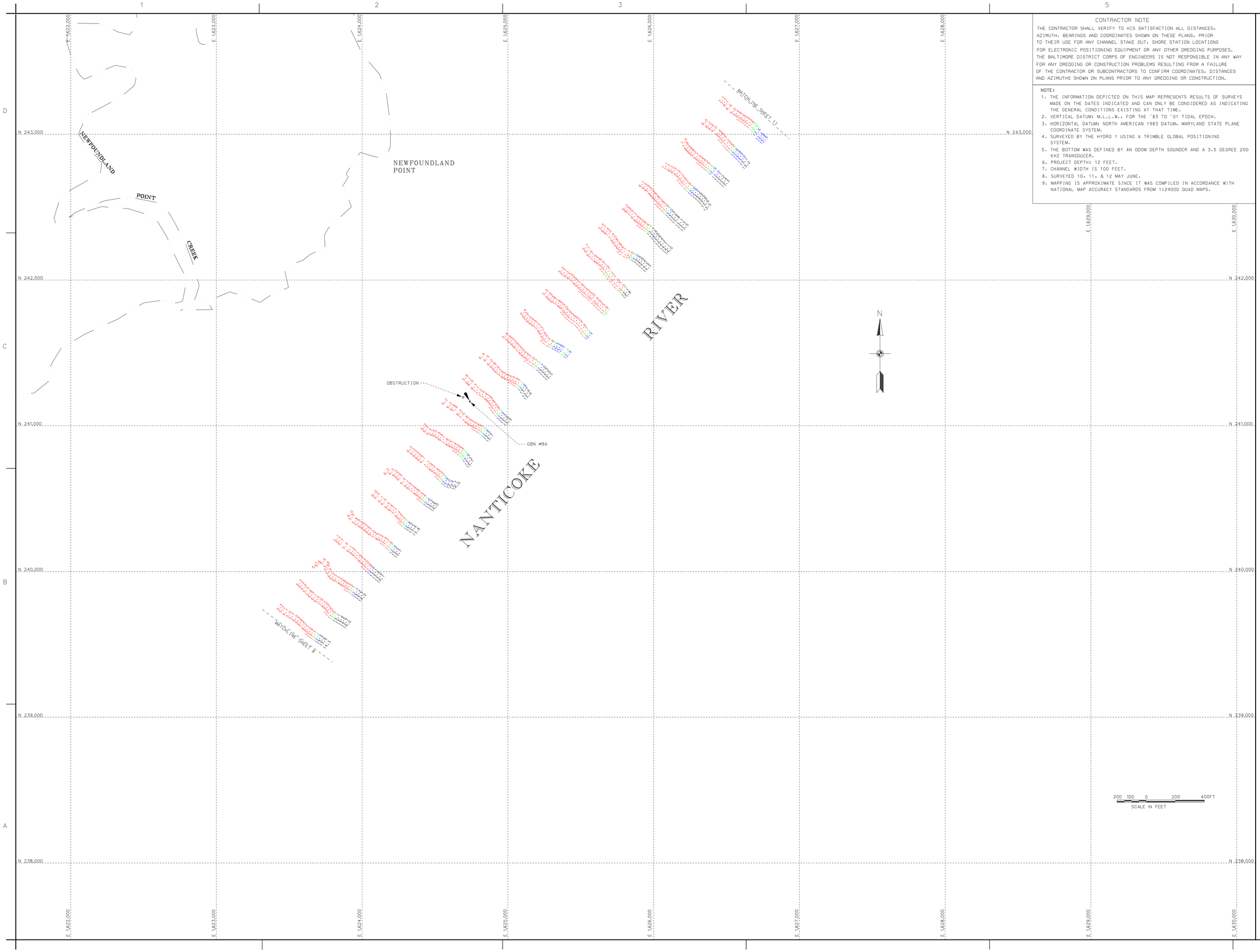
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: | Date: JUNE 08
Drawn by: JAH | Checked by: FILE 02 MAP# 8-028
Reviewed by: SWC | Drawing code:
Approved by: SWC | File name:P:\DWG\CL\ANC17.DGN
Chief, Hydr. Branch | Plot date: Plot scale:

BALTIMORE HARBOR
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER AT BIVALVE
STATION 0+000 TO 1+815

Sheet reference number:
V 109
Sheet 9 of 37



CONTRACTOR NOTE

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5. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE 200 KHZ TRANSDUCER.
6. PROJECT DEPTH: 12 FEET.
7. CHANNEL WIDTH IS 100 FEET.
8. SURVEYED 10, 11, & 12 MAY JUNE.
9. MAPPING IS APPROXIMATE SINCE IT WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FROM 1:24000 QUAD MAPS.

US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

Designed by: | Dwn by: JAH | Ckd by: SMG | Reviewed by: SMG | Submitted by: | Chief, Nav. Branch

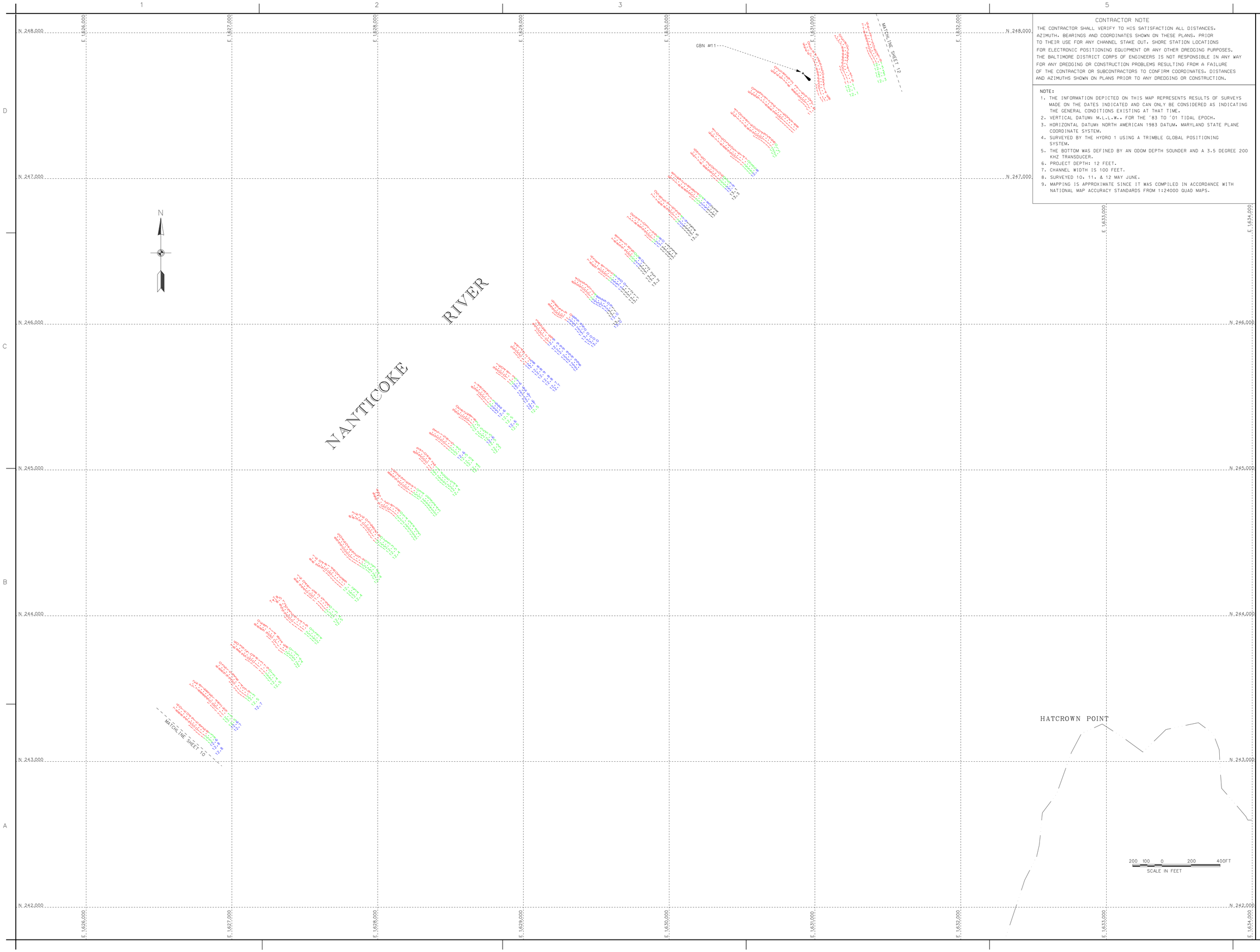
Date: JUNE '08 | Rev. | Design file no. FILE: 02 MAP: 8-029 | Drawing code: | File name: SHOCO37JUNE2008 | Plot date: | Plot scale:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 110
Sheet 10 of 37



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

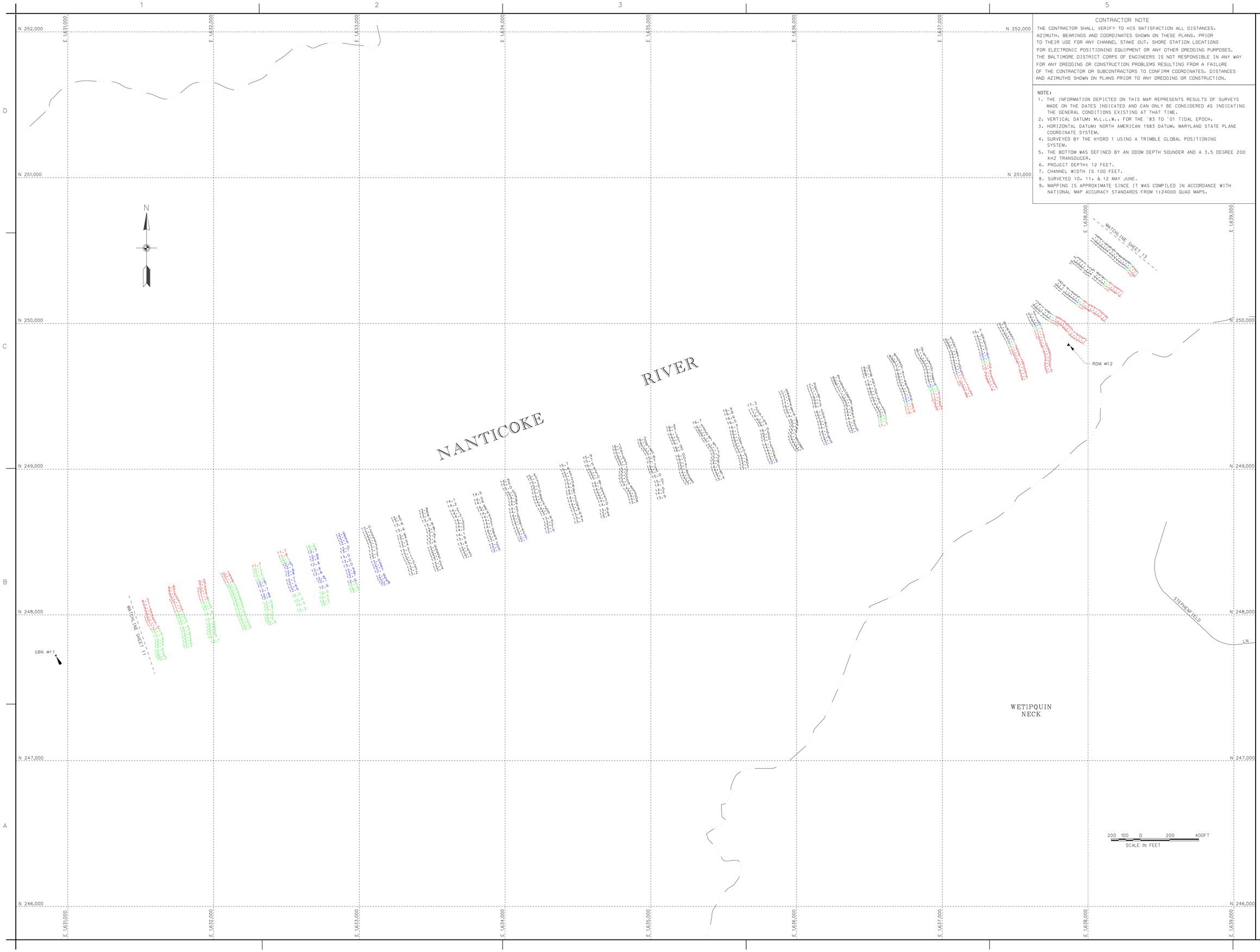
Designed by:	Date: JUNE 08
Dwn by: JAH	Scale: No Scale
Reviewed by: SMD	Drawing order: MAP: 8-010 FILE: 02
Submitted by:	File name: 02TC027JUNE08
Chief, Hydr Branch	Plot date: Plot scale:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 111
Sheet 11 of 37



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US Army Corps of Engineers
Baltimore District

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Mark	Description	Date	Appr.

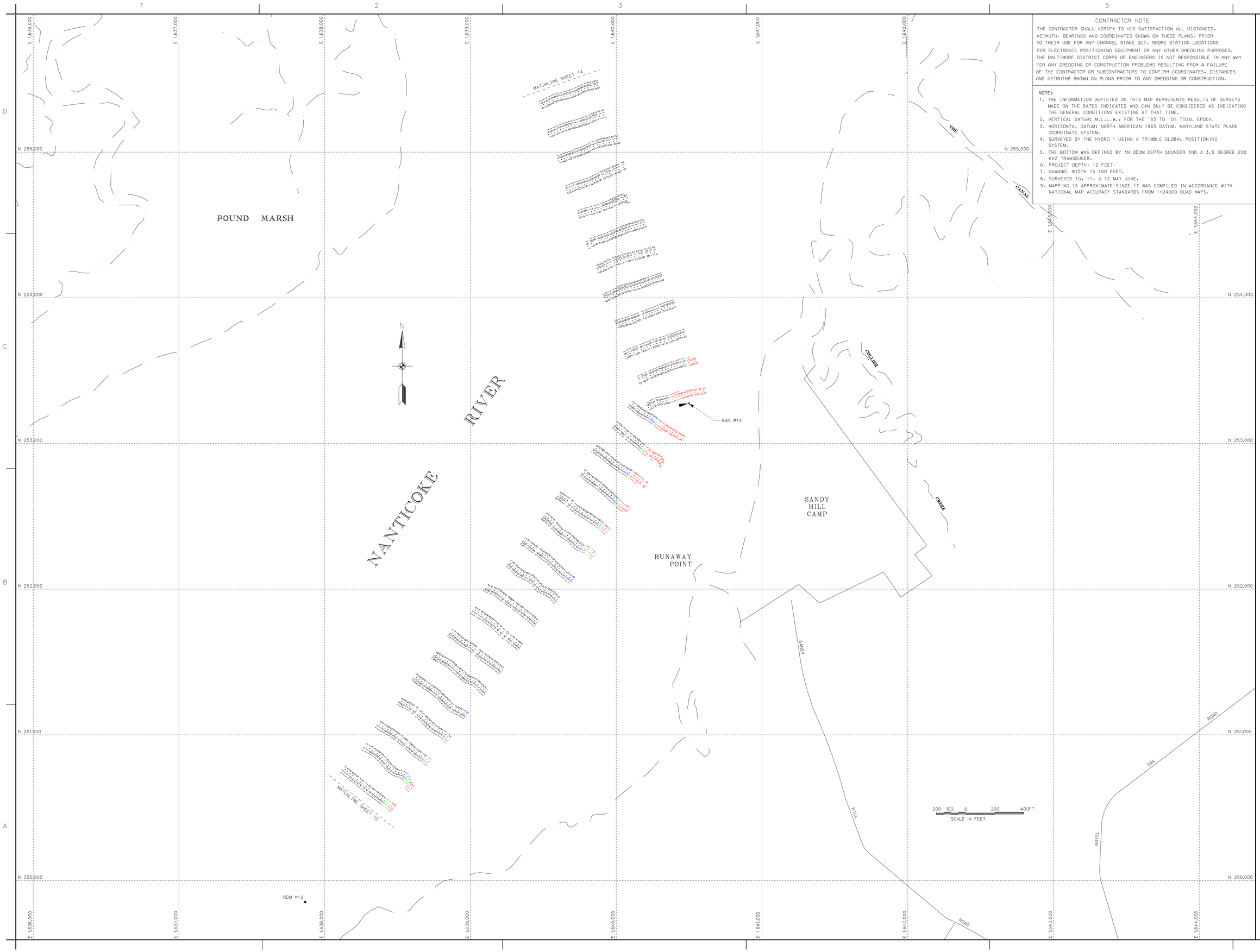
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: | Date: JUNE 1,08 | Rev.
Dwn by: JAH | Dwg. No. FILE 02 | Rev.
Dwg. No. FILE 02 | Rev. MAR. 8-031
Reviewed by: SMG | Drawing code:
Submitted by: | File name: 3H0203TUNE.DSB
Chief, Hyd. Branch | Plot date:
Plot scale:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 112
Sheet 12 of 37



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

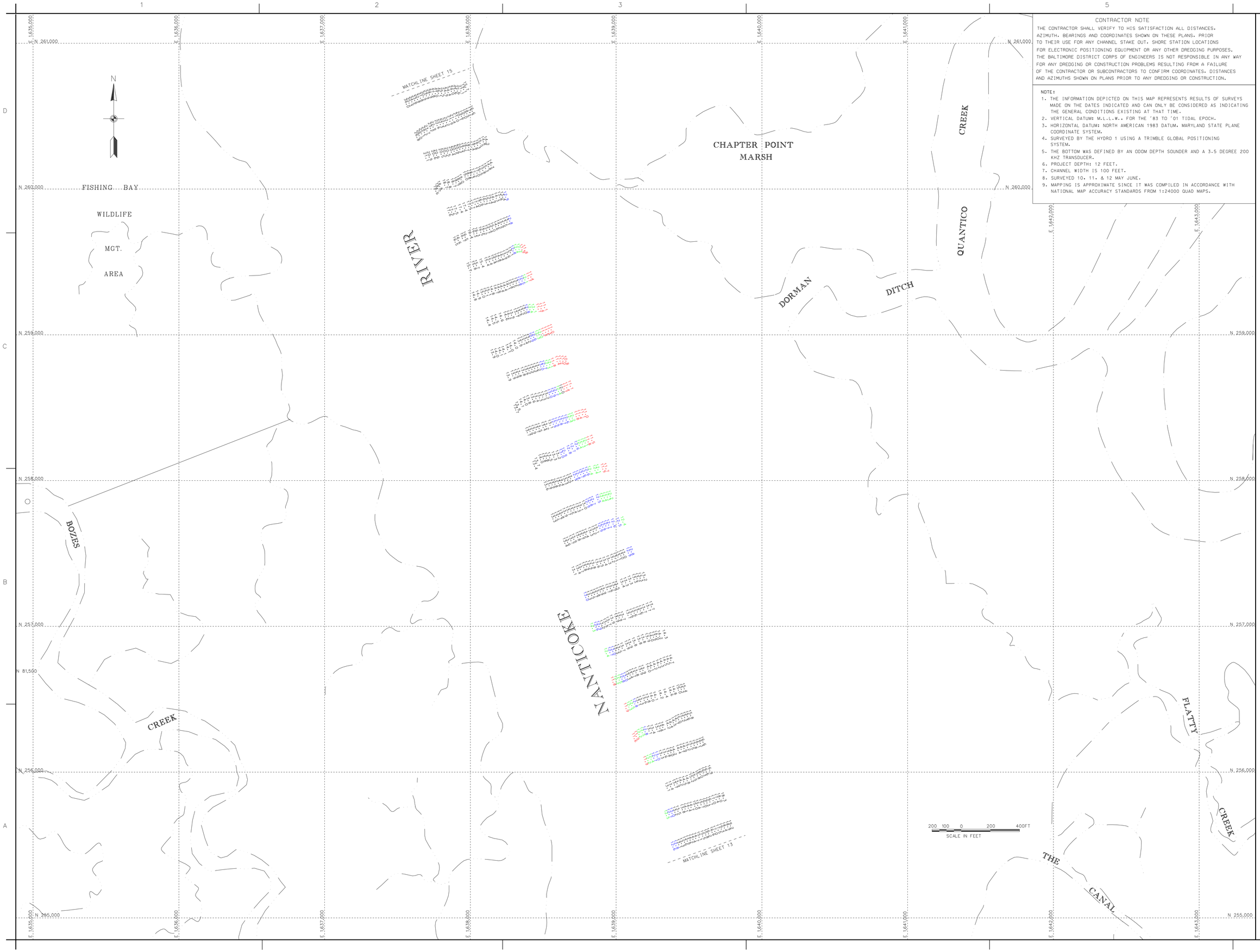
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: | Date: JUNE - 08 | Rev.
Dwn by: JAH | Ckd by: SMG | Contract No. FILE1 02 | MAP: 8-0X3
Reviewed by: SMG | Drawing code:
Submitted by: | The name/pathSOUTJUNE108
Chief, Hydr. Branch | Plot date: | Plot scale:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 113
Sheet 13 of 37



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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

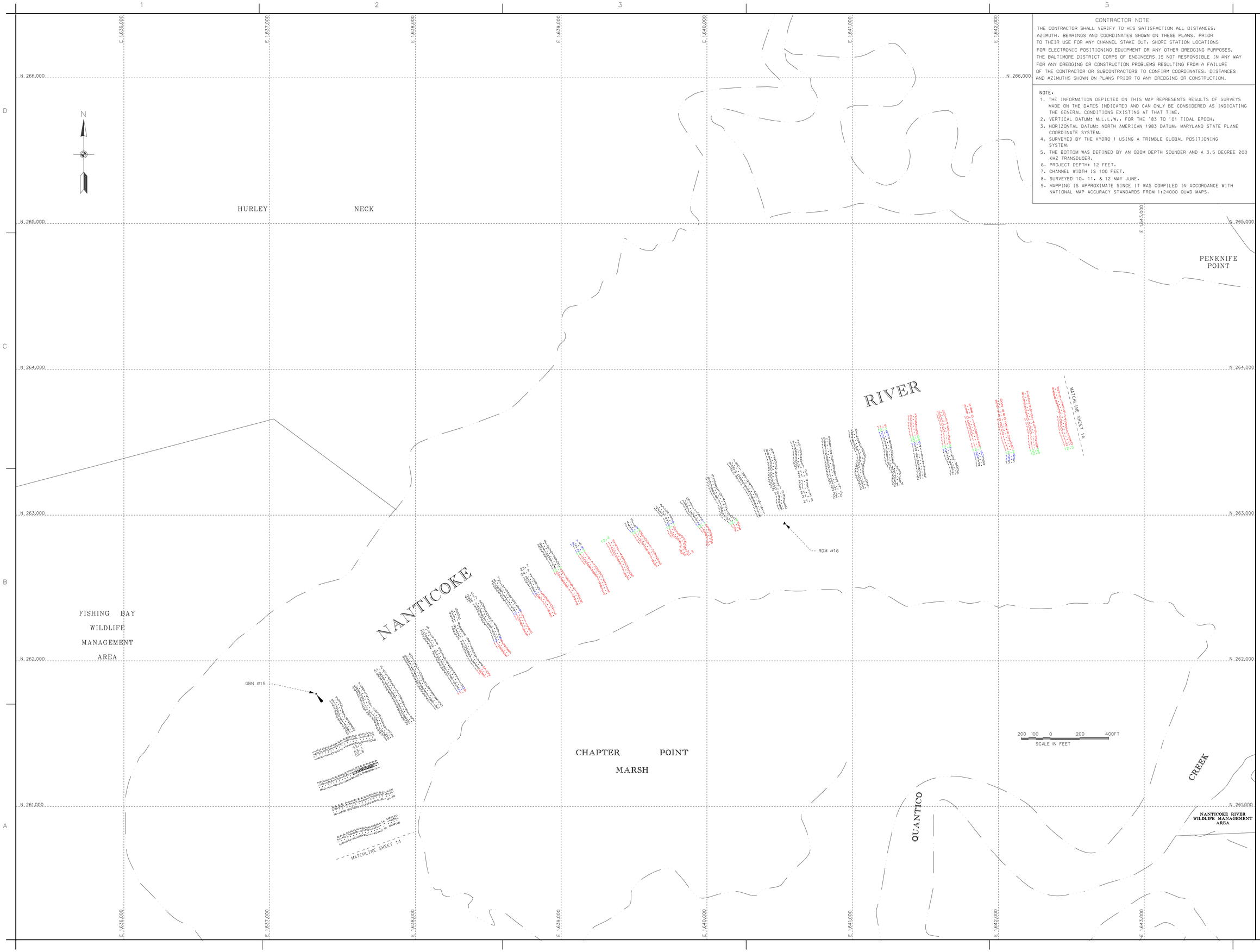
Designed by: Dwn by: JAH | Ckd by: SMD | Reviewed by: SMD | Submitted by: | Chief, Nav. Branch

Date: JUNE 108 | Rev:
Scale: As Noted | Plot Scale: FILE: 02 MAP: 8-033
Drawing code:
File name: SHAD3313.DWG
Plot date:
Plot time:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 114
Sheet 14 of 37



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

Designed by
Dwn by JAH
Ckd by
Reviewed by SMG
Submitted by
Date/Wkn (Branch)

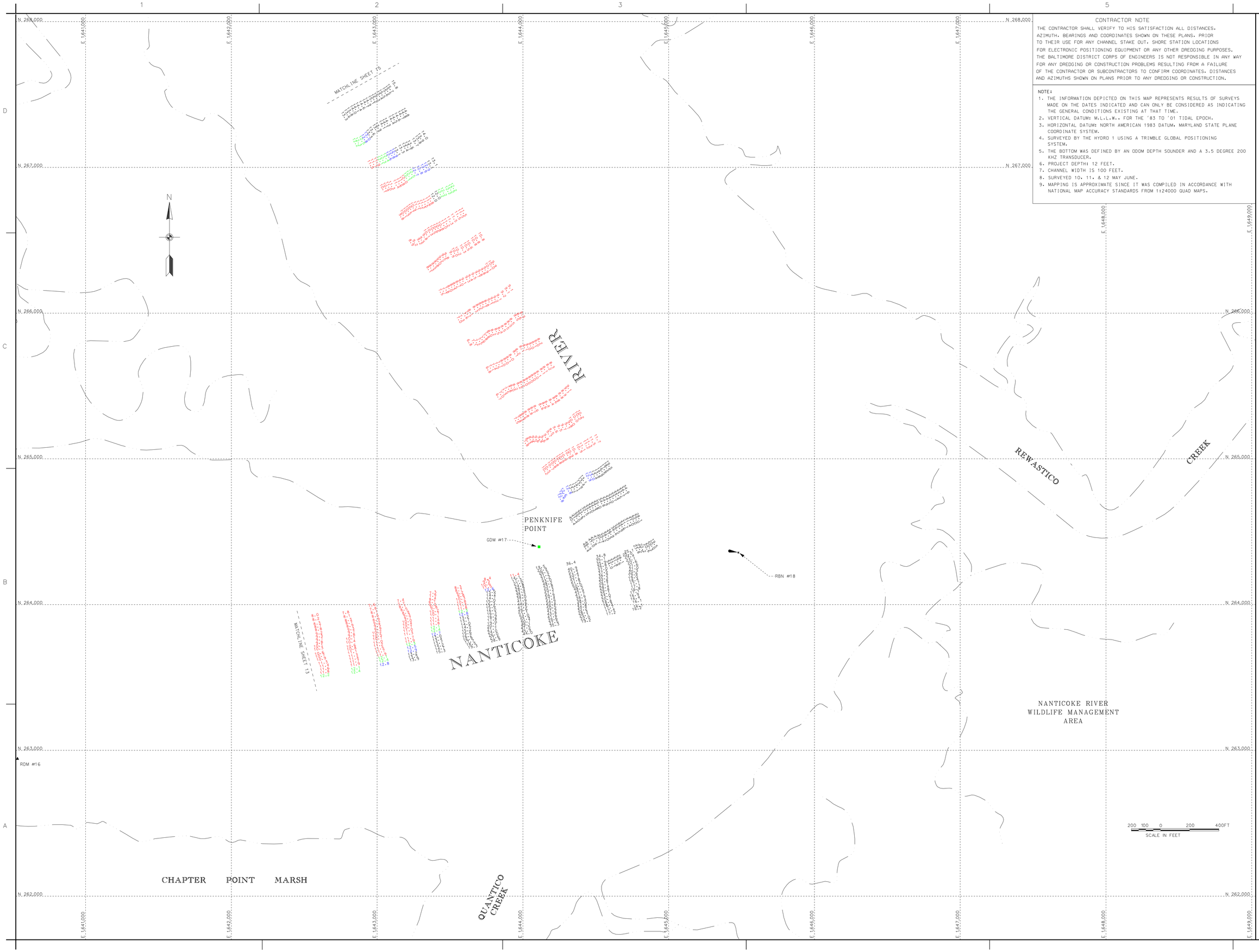
Date JUNE 08
Scale 1:24000
Drawing code FILE1 02 MAP1 8-034
File name SHOALS\JAH\108
Plot date
Plot scale
Rev.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 115
Sheet 15 of 37



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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

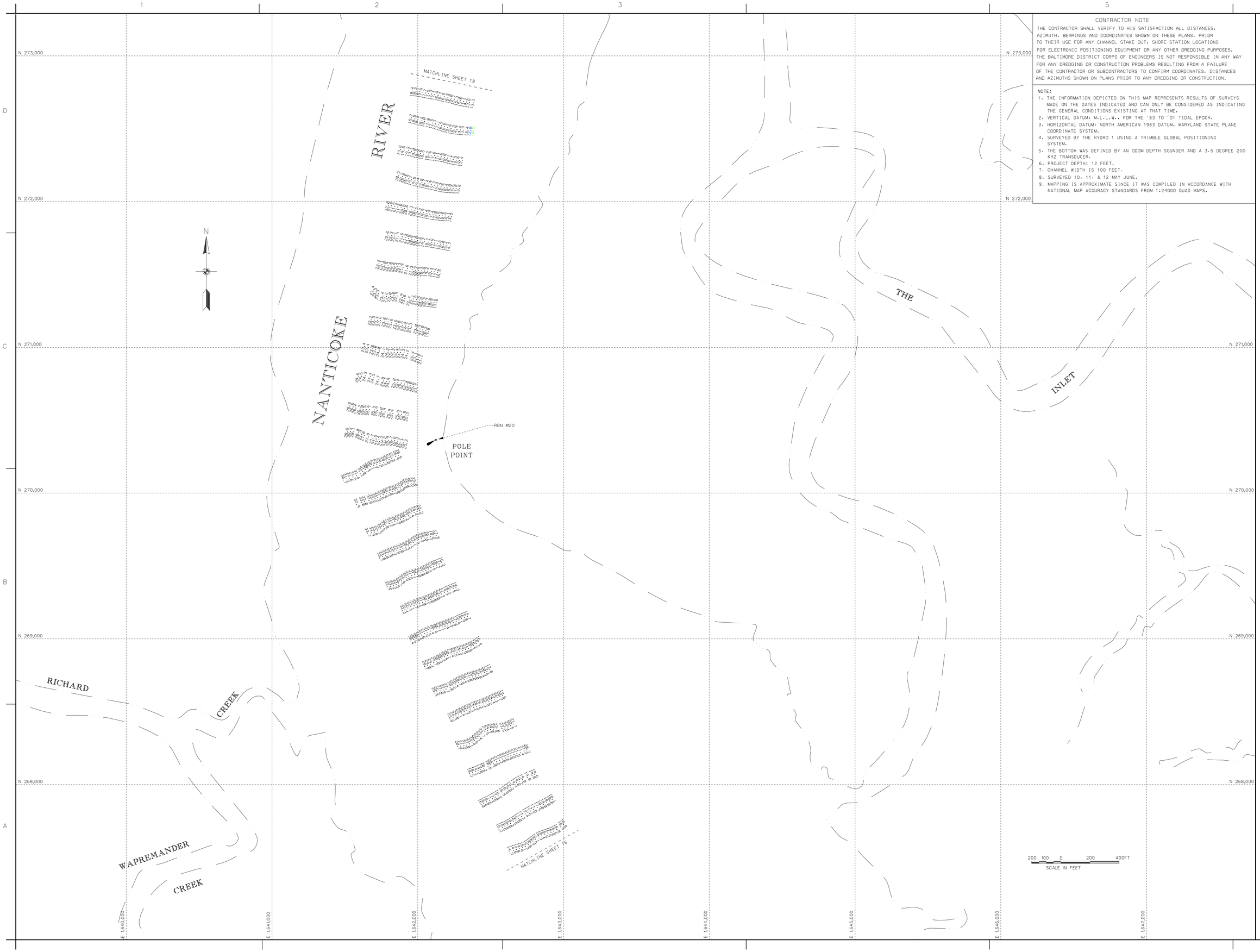
Designed by: Dwn by: JAH | Ckd by: SMG | Reviewed by: SMG | Submitted by: CHIEF, CIVIL DESIGN

Date: JUNE - 08 | Scale: AS SHOWN | Project No.: FILE1 02 MAP1 8-035 | Drawing code: | File name: DPR0C017.DWG | Plot date: | Plot scale: | Rev.:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 116
Sheet 16 of 37



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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: JAH
Ckd by: SMG
Reviewed by: SMG
Submitted by:
Chief, Hydr. Branch

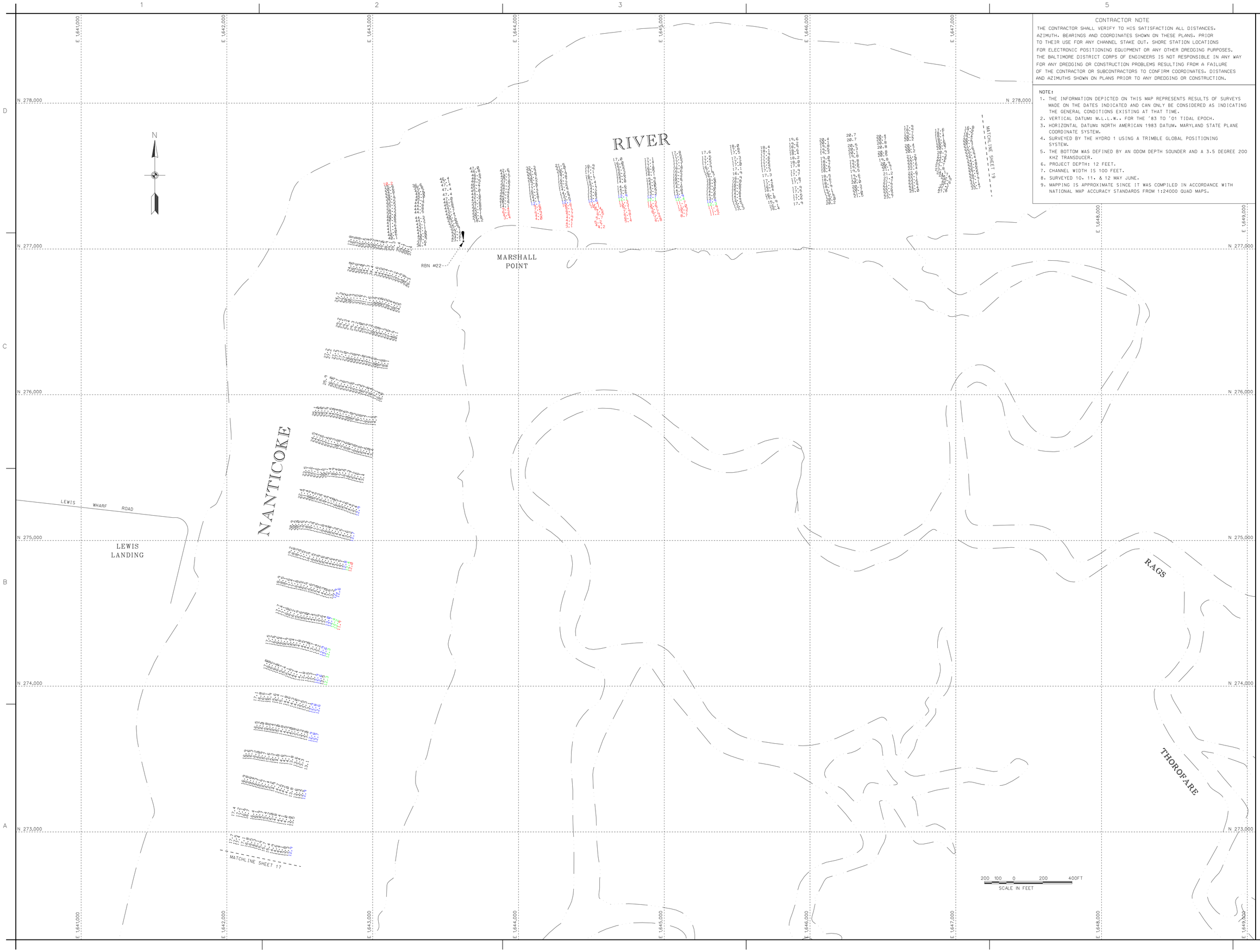
Date: JUNE - 08
Scale: 1:24000
FILE: 02 MAP: 8-036
Drawing code:
File name: SHT03037JUNE08
Plot date:
Plot scale:

Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 117
Sheet 17 of 37



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US Army Corps of Engineers
Baltimore District

Symb.	Description	Date	Appr.

Symb.	Description	Date	Appr.

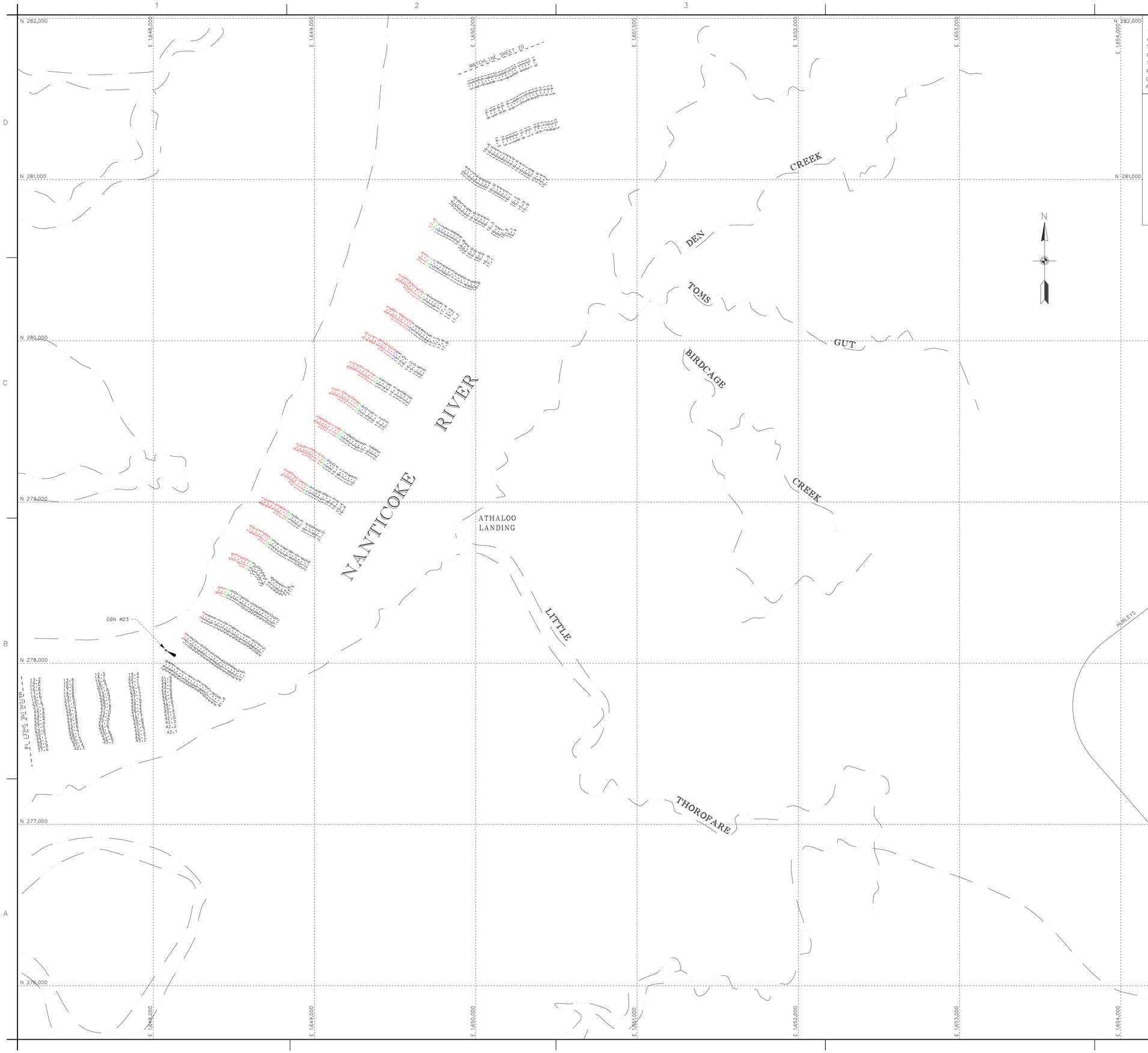
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: Dwn by JAH | Chk by SMG
Reviewed by SMG | Submitted by Chief, Hydr. Branch
Date: JUNE 10 | Scale: NAD 83 | Rev.
Drawing No.: FILE: 02 MAPS 8-037
Drawing code:
File name: p18fb037.dwg/02B
Plot date:
Plot scale:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 118
Sheet 18 of 37



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U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: JAH
Ckd by: SMD
Reviewed by: SMD
Submitted by:
Chief, Hyd. Branch

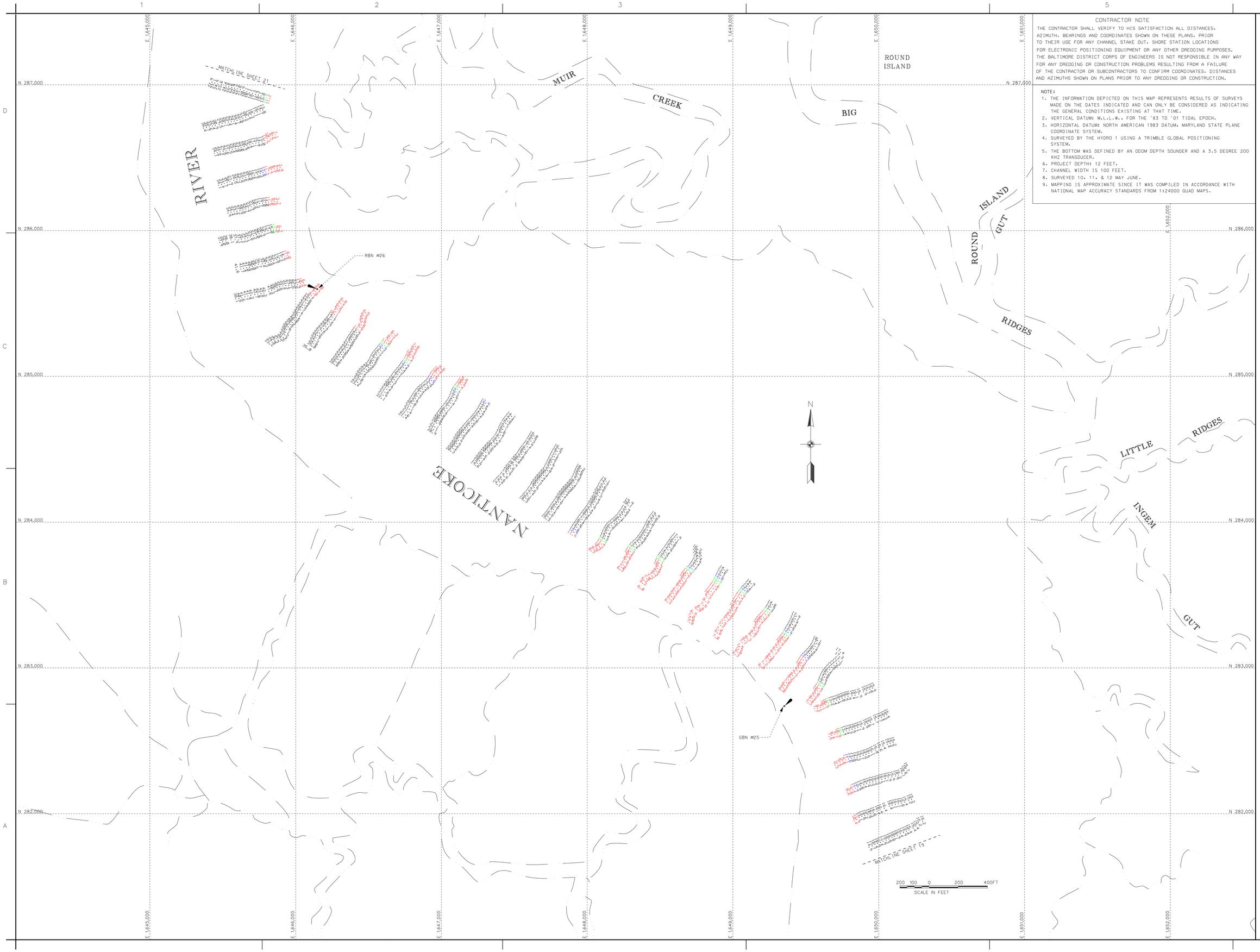
Date: JUNE 1998
Scale: 1:24000
Drawing scale: FILE: D2
Plot date:
Plot scale:
File name: SYN0037JUNE.DGN

Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 119
Sheet 19 of 37



CONTRACTOR NOTE

THE CONTRACTOR SHALL VERIFY TO HIS SATISFACTION ALL DISTANCES, AZIMUTH, BEARINGS AND COORDINATES SHOWN ON THESE PLANS. PRIOR TO THEIR USE FOR ANY CHANNEL STAKE OUT. SHORE STATION LOCATIONS FOR ELECTRONIC POSITIONING EQUIPMENT OR ANY OTHER DREDGING PURPOSES. THE BALTIMORE DISTRICT CORPS OF ENGINEERS IS NOT RESPONSIBLE IN ANY WAY FOR ANY DREDGING OR CONSTRUCTION PROBLEMS RESULTING FROM A FAILURE OF THE CONTRACTOR OR SUBCONTRACTORS TO CONFIRM COORDINATES. DISTANCES AND AZIMUTHS SHOWN ON PLANS PRIOR TO ANY DREDGING OR CONSTRUCTION.

NOTE:

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2. VERTICAL DATUM: M.L.L.W.. FOR THE '83 TO '01 TIDAL EPOCH.
3. HORIZONTAL DATUM: NORTH AMERICAN 1983 DATUM. MARYLAND STATE PLANE COORDINATE SYSTEM.
4. SURVEYED BY THE HYDRO 1 USING A TRIMBLE GLOBAL POSITIONING SYSTEM.
5. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE 200 KHZ TRANSDUCER.
6. PROJECT DEPTH: 12 FEET.
7. CHANNEL WIDTH IS 100 FEET.
8. SURVEYED 10. 11. & 12 MAY JUNE.
9. MAPPING IS APPROXIMATE SINCE IT WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FROM 1:24000 QUAD MAPS.

US Army Corps of Engineers
Baltimore District

Rev.	Description	Date	Appr.

Rev.	Description	Date	Appr.

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

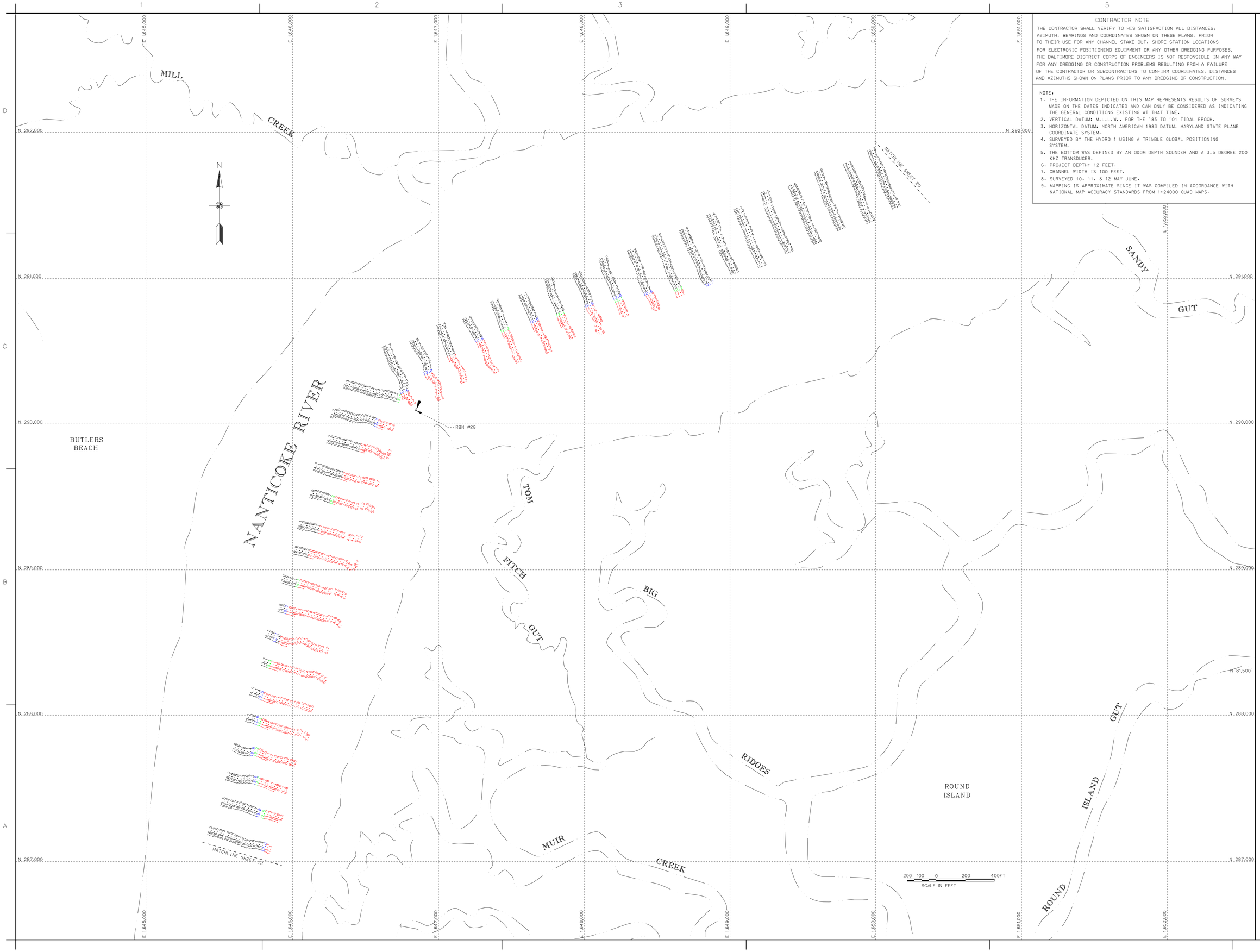
Designed by:
Dwn by: JAH
Ckd by: SMC
Reviewed by: SMC
Submitted by:
Chief, Hyd. Branch

Date: JUNE 08
Scale: 1" = 200'
Drawing code: FILE1 02 MAP: 8-039
File name: 0SOX03XJAN.DGN
Plot date:
Plot scale:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 120
Sheet 20 of 37



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US Army Corps of Engineers
Baltimore District

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U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

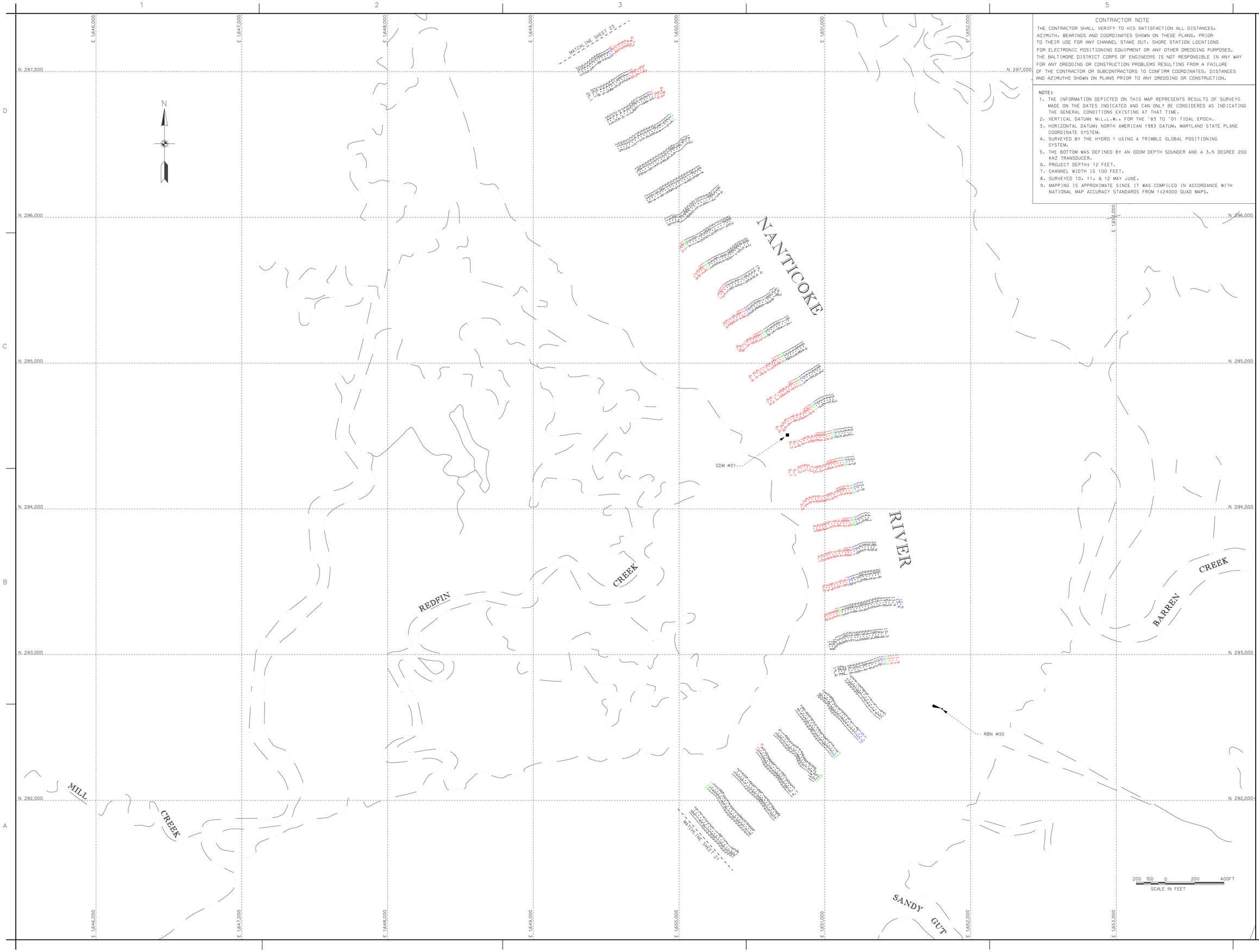
Designed by:
Dwn by: JAH
Ckd by: SMG
Reviewed by: SMG
Submitted by:
Chief, Hydr. Branch

Date: JUNE 108
Scale: NAD83 MAPS 8-0318
Drawing code: FILE: D2
File name: P3180JUTJUNE108
Plot date:
Plot scale:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 119
Sheet 19 of 37



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

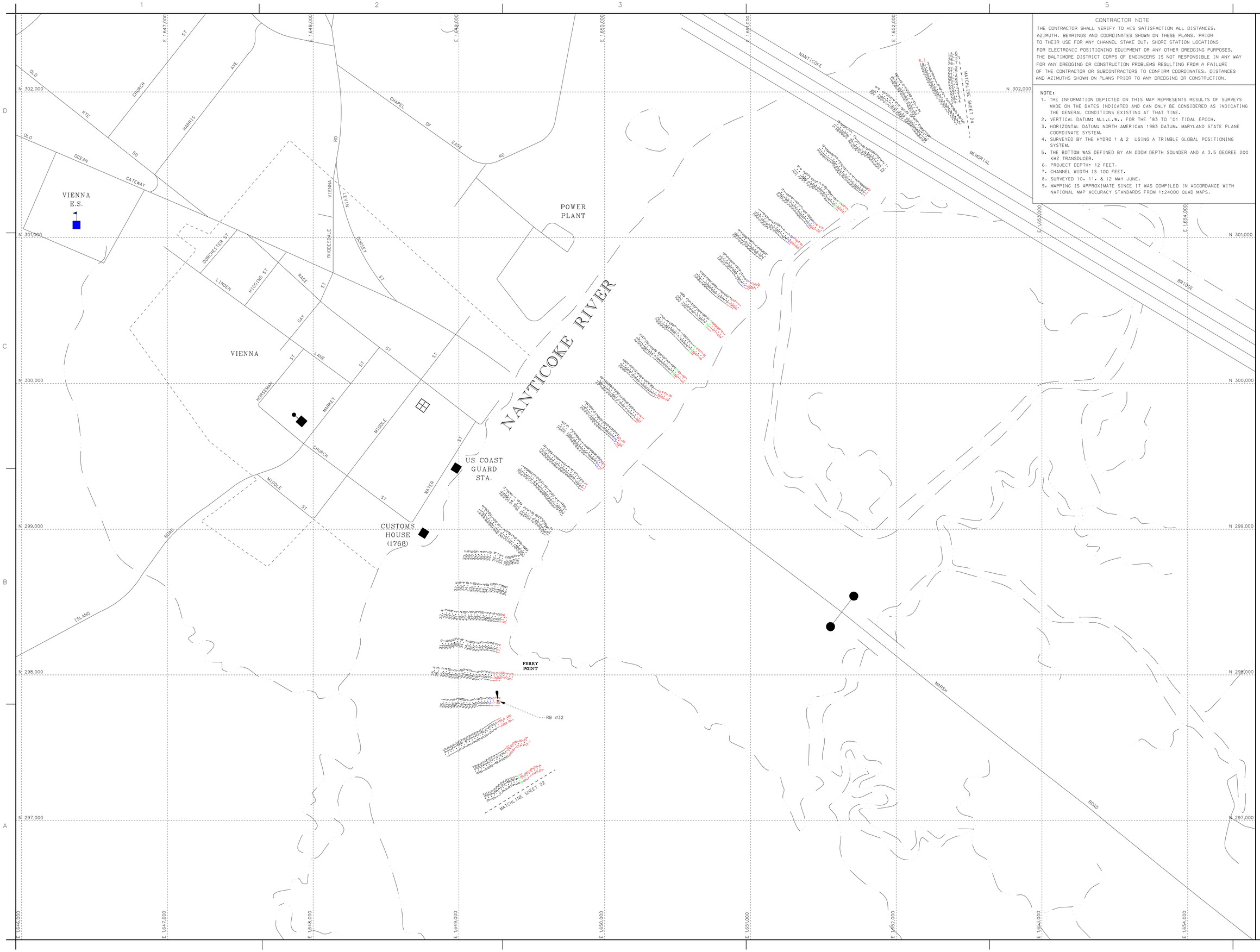
Designed by:	Date: JUNE 08
Dwn by: JAH	Chkd by: FILE: 08
Dsn by: SMG	Rev. No. MAP2 8-041
Reviewed by: SMG	Drawing code:
Submitted by: SMG	File name: 0506200537JAHC026
Chief, Nav. Branch	Plot date: Plot scale:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 122
Sheet 22 of 37



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US Army Corps of Engineers
Baltimore District

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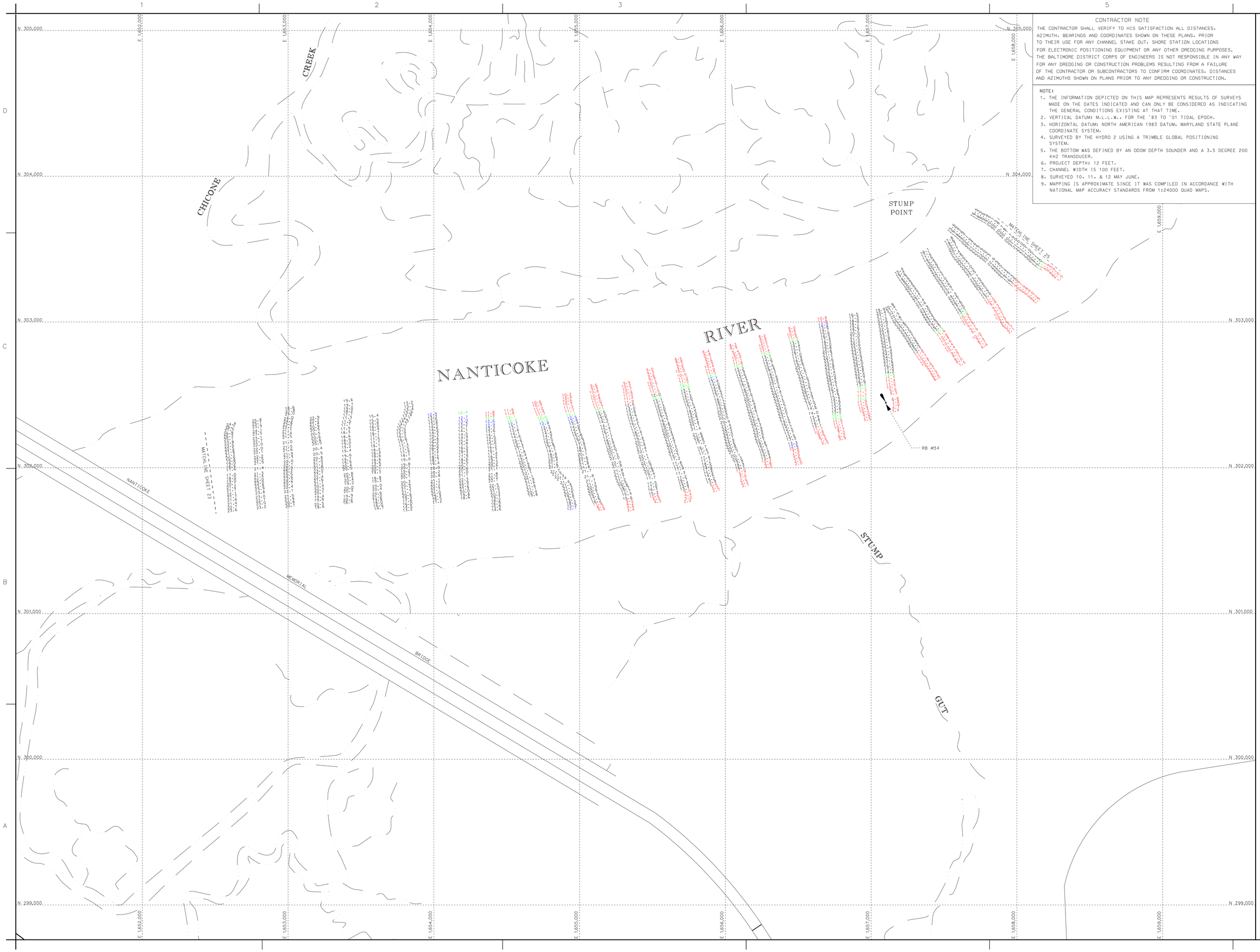
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: JAH
Dwn by: JAH
Ckd by: SMD
Reviewed by: JAD
Submitted by:
Chief, Hydr. Branch:
Date: JUNE - 08
Contract No.:
FILE: 02 MAP: B-042
Drawing code:
File name: SYS2C037JUNE008
Plot date:
Plot scale:
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 123
Sheet 23 of 37



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US Army Corps of Engineers
Baltimore District

Mark	Date	Appr.	Mark	Date	Appr.	Description	Description

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

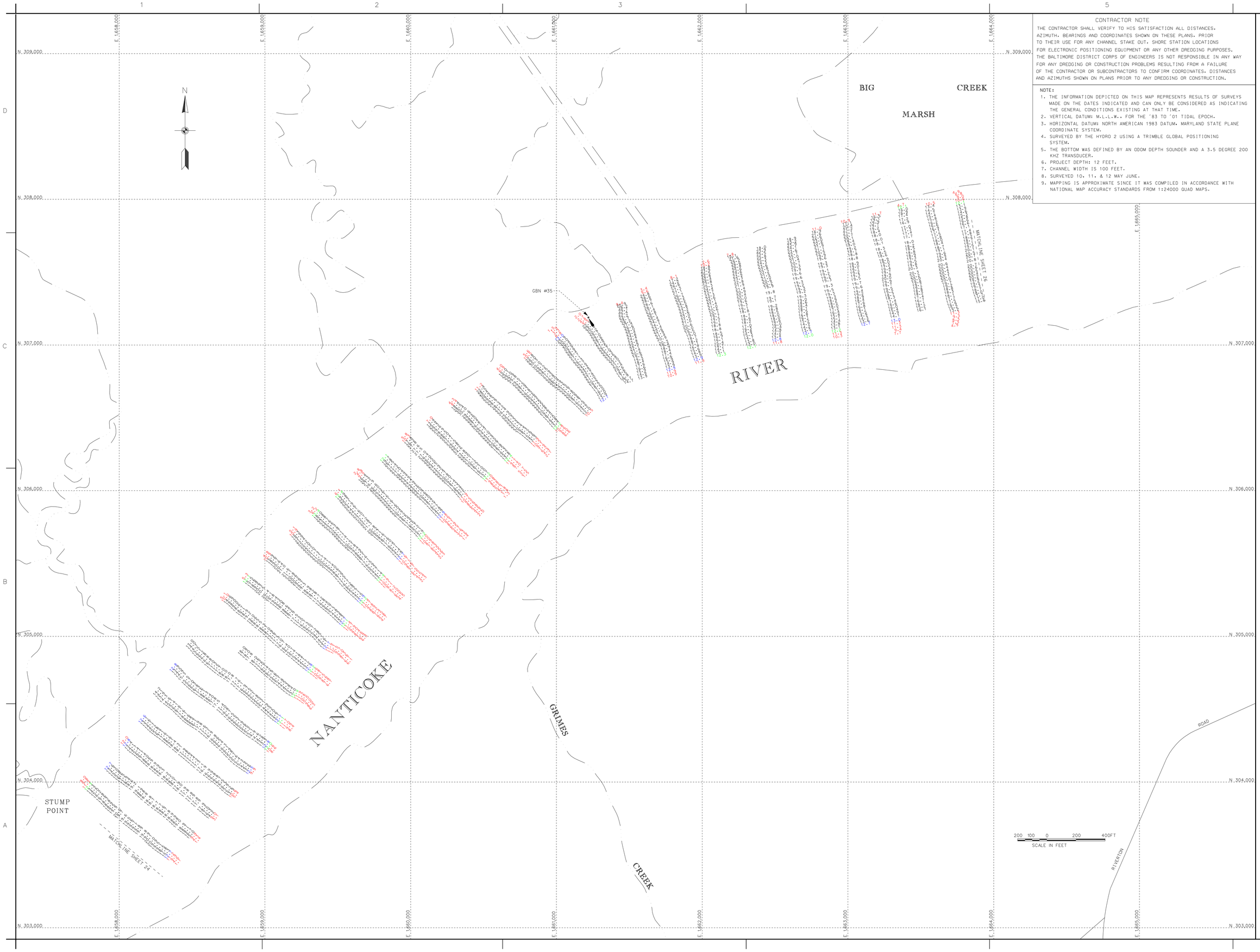
Designed by:
Dwn by: JAH
Ckd by: SMC
Reviewed by: SMC
Submitted by:
Date/Time: Date/Time

Date: JUNE 08
Scale: 1:24000
Drawing code: FILE: 02 MAP: 8-043
File name: 0524S37JAN.DGN
Plot date:
Plot scale:
Rev:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 124
Sheet 24 of 37



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

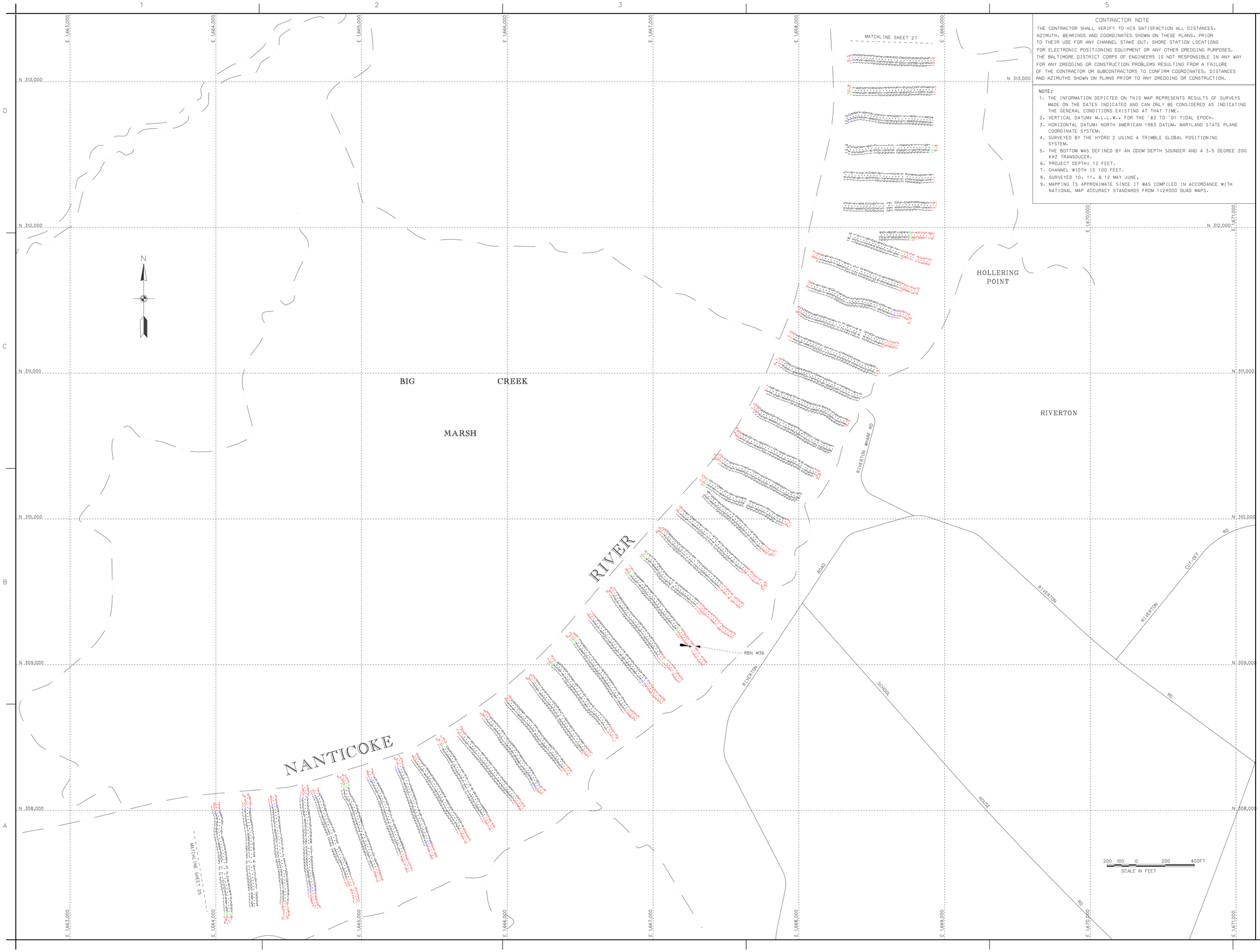
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: JAH
Reviewed by: SMS
Submitted by:
Chief, Hydr. Branch
Date: JUNE '08
Scale: 1:24000
FILE: D2
MAP: 8-044
Drawing scale:
File name: P:\DCS\37\JAE\D2R
Plot date:
Plot scale:
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 125
Sheet 25 of 37



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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

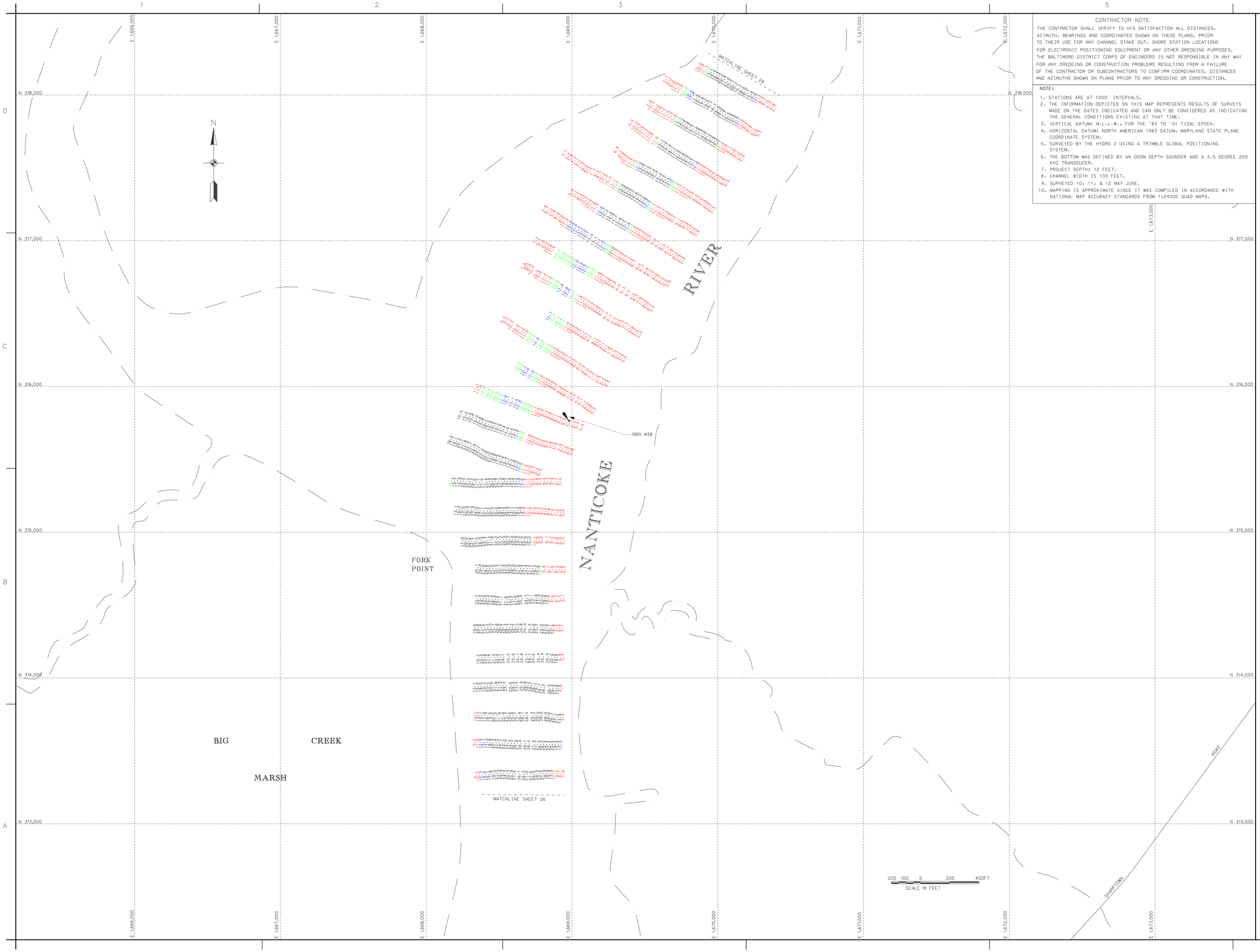
Designed by: JAH	Date: JUNE 08
Drawn by: JAH	Checked by: FILE: 02 MAP: 8-045
Reviewed by: MS/JAH	Drawing order
Submitted by:	File name:SHEET27JUNE2008
Chief, Hydro Branch	Plot date: Plot Scale:

Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 126
Sheet 26 of 37



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NOTE:

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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

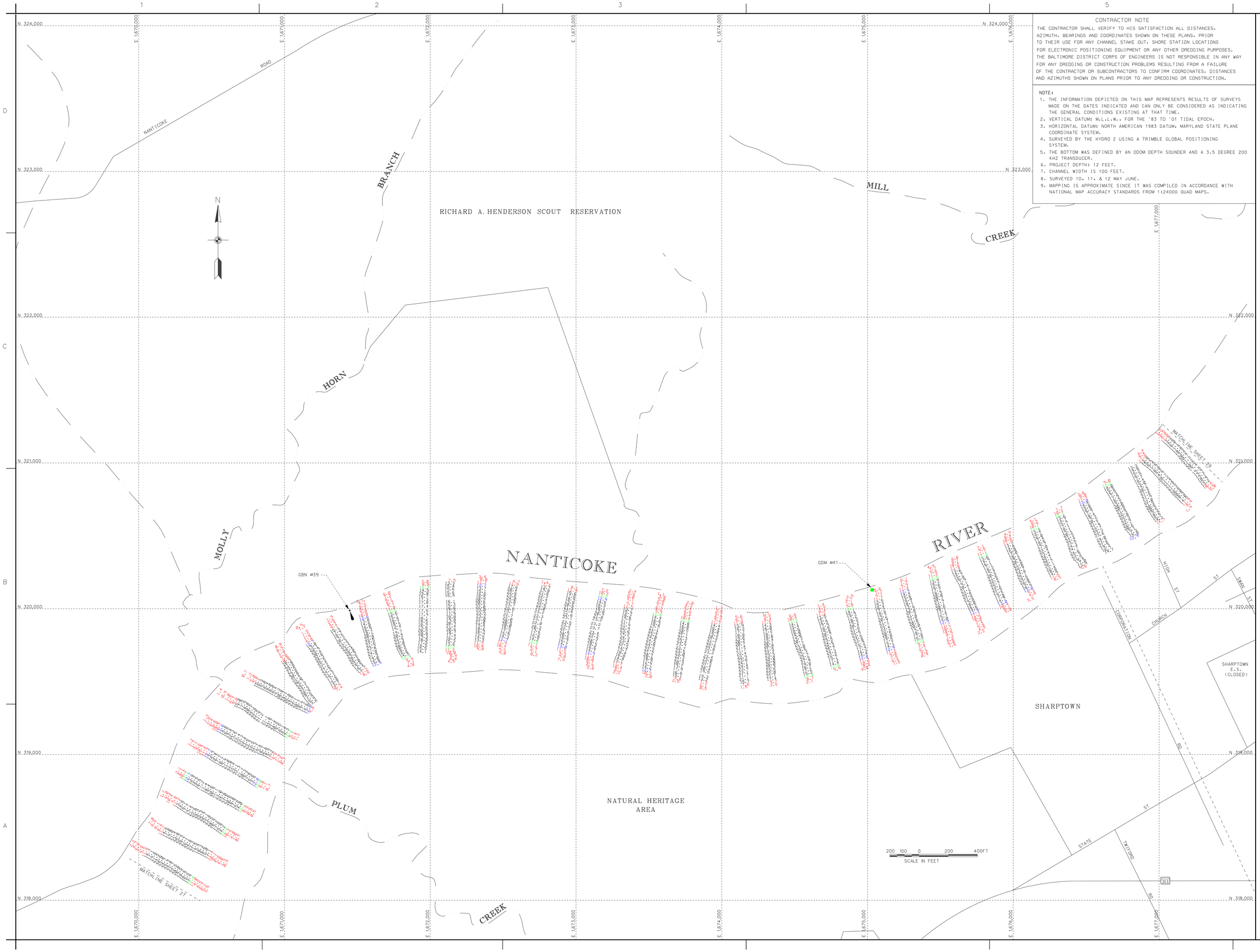
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: | Date: JUNE - 08 | Rev.
Dwn by: JAH | Ckd by: SMD | Date Rev. | Rev.
Reviewed by: SMD | Scale: N/A | Drawing number: FILE:L02 MAP18-046
Submitted by: Chief, Hydr. Branch | File name: HYD103\03JUNE\026 | Plot date: | Plot scale:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 127
Sheet 27 of 37



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Baltimore District

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U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: JAH
Ckd by: SMG
Reviewed by: SMG
Submitted by:
Chief, Nav. Branch

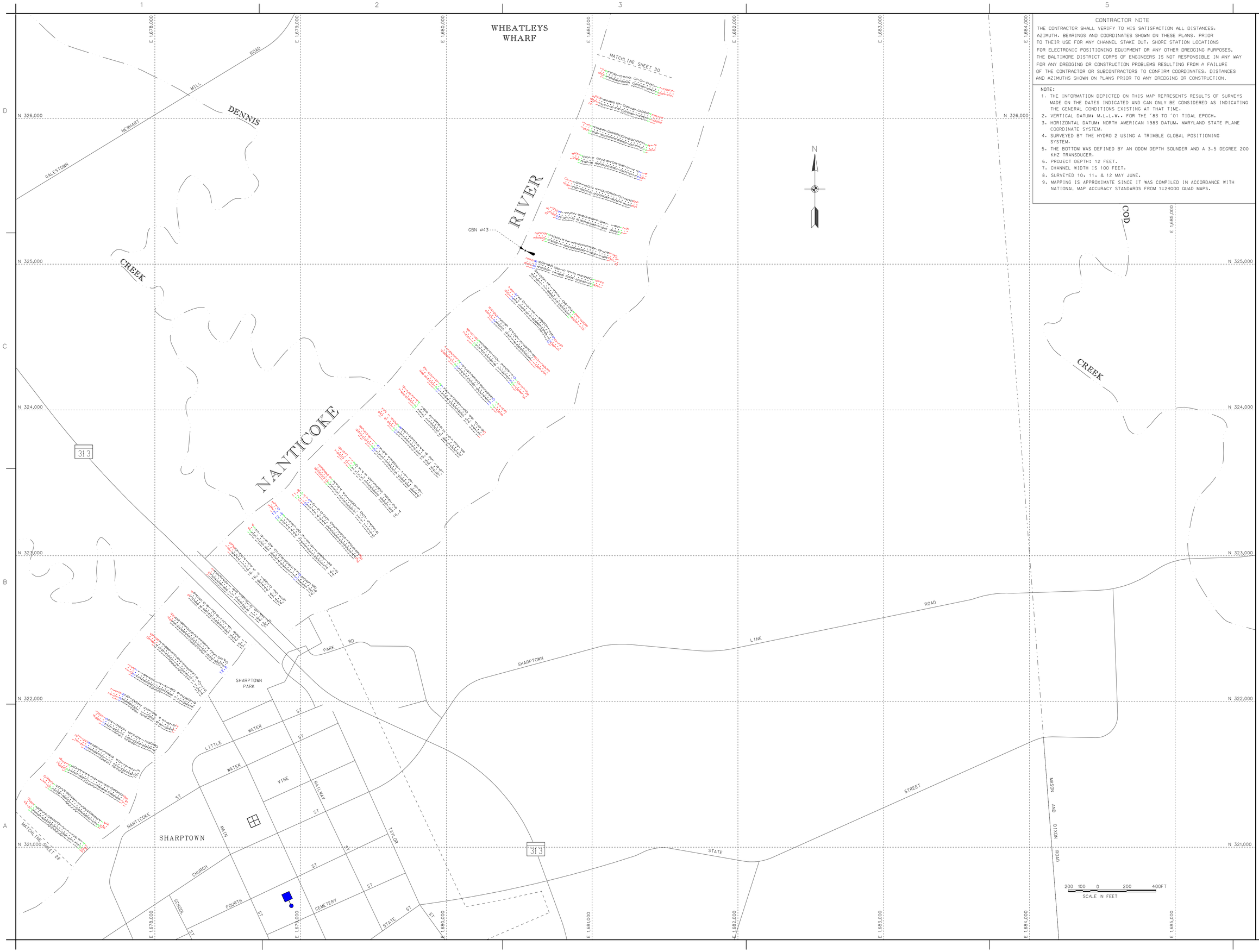
Date: JUNE '08
Design file no.: FILE: 02 MAP: 8-047
Drawing code:
File name: SH28C037JUNE2008
Plot date:
Plot scale:

Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 128
Sheet 28 of 37



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Baltimore District

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U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: JAH
Drawn by: JAH
Reviewed by: SJG
Submitted by: Chief, Hydr Branch
Date: JUNE 08
Contract No.: MAP: 8-048
Drawing scale: FILE: 02
File name: SHSDCO31JUNE02DR
Plot date:
Plot scale:
Rev.:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 129
Sheet 29 of 37

LEFT		
STATION	EASTING	NORTHING
0+000.00	1687234.80	328015.30
0+201.54	1687352.50	328178.90
3+001.62	1689256.40	330232.10
3+594.62	1689716.50	330606.20

HAWKS NEST SHOALS NANTICOKE RIVER		
CENTERLINE		
STATION	EASTING	NORTHING
0+000.00	1687179.80	328066.30
3+000.05	1689219.70	330266.10
3+600.03	1689684.90	330645.00

RIGHT		
STATION	EASTING	NORTHING
0+000.00	1687124.80	328117.30
0+201.58	1687279.20	328246.90
3+001.67	1689183.10	330300.10
3+608.63	1689653.40	330683.80

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5. SURVEYED BY THE HYDRO 2 USING A TRIMBLE GLOBAL POSITIONING SYSTEM.
6. THE BOTTOM WAS DEFINED BY AN ODOM DEPTH SOUNDER AND A 3.5 DEGREE 200 KHZ TRANSDUCER.
7. PROJECT DEPTH: 12 FEET.
8. CHANNEL WIDTH IS 100 FEET.
9. SURVEYED 10. 11. & 12 MAY JUNE.
10. MAPPING IS APPROXIMATE SINCE IT WAS COMPILED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS FROM 1:24000 QUAD MAPS.

US Army Corps of Engineers
Baltimore District

Symb.	Description	Date	Appr.

Symb.	Description	Date	Appr.

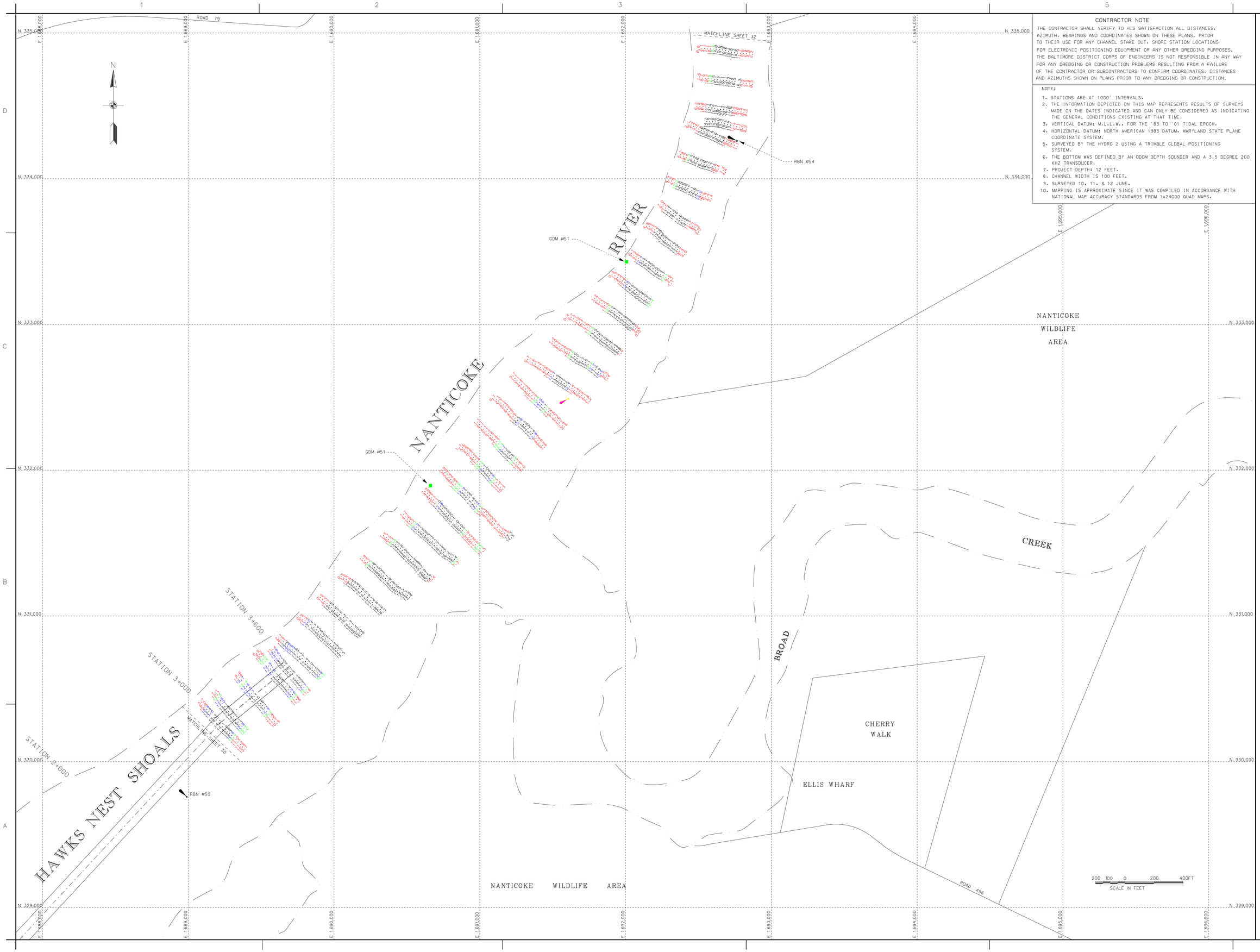
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: JAH
Dwn by: JAH
Reviewed by: SMC
Submitted by: SMC
Chief, Hyd. Branch
Date: JUNE 1998
Scale: 1:24000
Drawing code: FILE1 02 MAP: 8-049
File name: 5X0X037.JAH/2D5
Plot date:
Plot scale:
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER
AT HAWKS NEST SHOALS
STATION 0+000 TO 2+900

Sheet reference number:
V 130
Sheet 30 of 37



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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: JAH	Ckd by: SMD
Reviewed by: SMD	
Submitted by: SMD	
Chief, Hyo Branch:	
Date: JUNE 08	Rev:
Scale: As Noted	
Project No: FILE: 08 MAP2: 8-050	
Drawing code:	
File name: 0V131CO31.DWG08	
Plot date:	
Plot scale:	

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER
AT HAWKS NEST SHOALS
STATION 3+000 TO 3+600

Sheet reference number:
V 131
Sheet 31 of 37

CONTRACTOR NOTE

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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

Date: JUNE 1, 08
Project No.: FILE: 02
Drawing order: MAP: 8-051
File name: PH3SC037JUNE2008
Plot date:
Plot Scale:

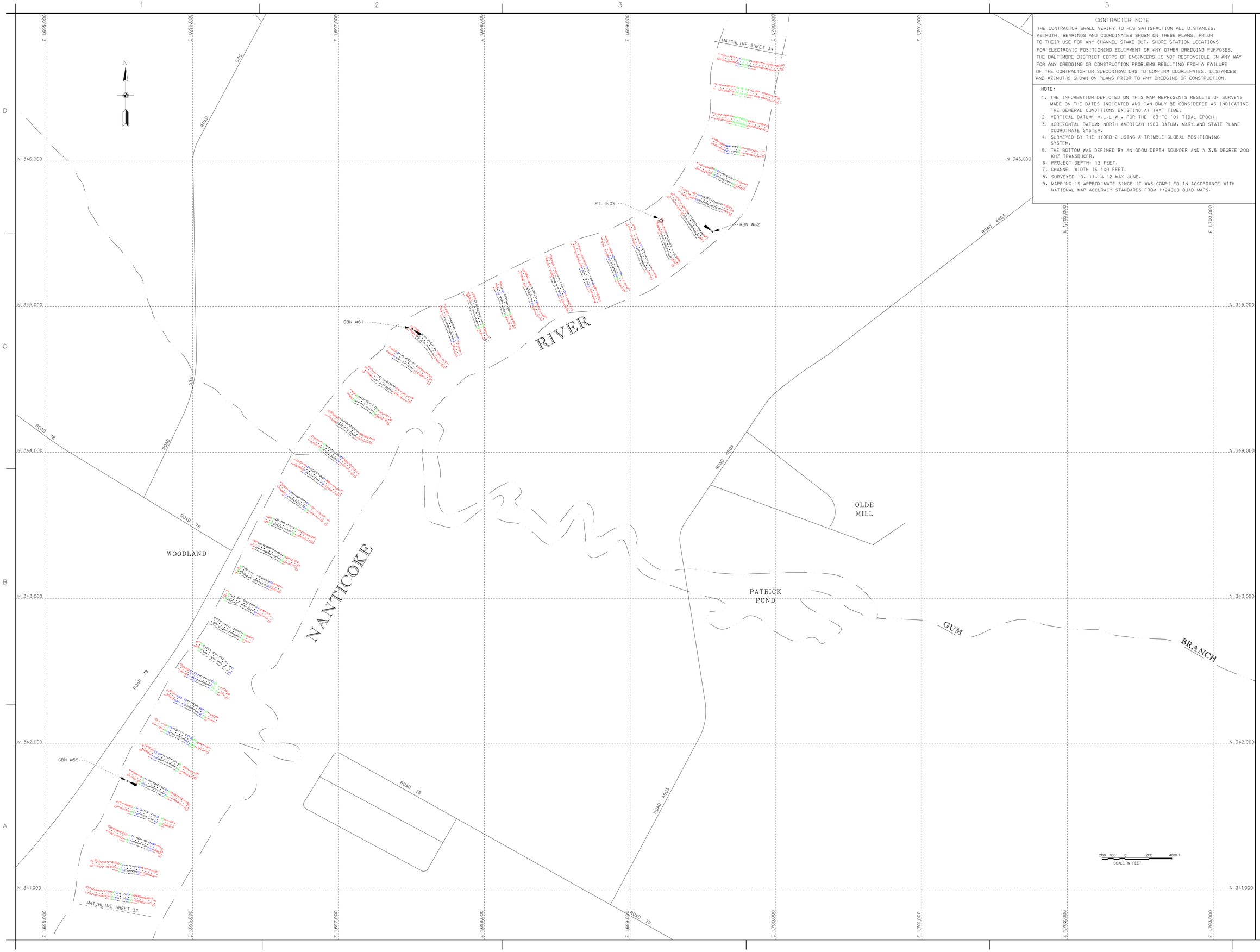
Designed by: JAH
Drawn by: JAH
Reviewed by: SMD
Submitted by: SMD
Chief, Hydro Branch:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 132
Sheet 32 of 37



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

Designed by: | Date: JUNE '08
Dwn by: JAH | Ckd by: SMG | Reviewed by: SMG | Submitted by: Chief, Navi Branch
Plotted on A.S.: FILE: 02 | Rev.
Drawing scale:
File name: PLOS033TJABE108
Plot date:
Plot scale:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER

Sheet reference number:
V 133
Sheet 33 of 37

NANTICOKE RIVER AT SEAFORD

CENTERLINE

STATION	EASTING	NORTHING
0+000.00	1699932.90	347264.30
0+789.93	1700389.50	347908.90
3+649.84	1702975.10	349131.10
4+589.79	1703752.80	349659.00
5+679.77	1704442.40	350503.10
6+952.70	1705385.90	351357.60
7+415.70	1705575.50	351780.00
8+723.63	1705619.20	353087.20
9+223.67	1705927.60	353480.80
10+403.58	1706934.20	354096.40
11+587.57	1707425.80	355173.50
13+175.12	1708176.40	356572.40

LEFT

STATION	EASTING	NORTHING
0+000.00	1699973.70	347235.40
0+639.94	1700343.60	347757.60
0+904.77	1700546.50	347927.80
3+618.50	1702999.90	349087.60
4+569.67	1703786.90	349621.80
5+566.90	1704417.90	350394.00
5+758.87	1704550.10	350533.20
6+942.32	1705427.30	351327.60
7+425.55	1705625.10	351768.50
8+603.31	1705664.50	352945.60
8+838.48	1705744.90	353166.60
9+058.43	1705880.60	353339.70
9+316.25	1706073.10	353511.20
10+371.48	1706973.30	354061.80
11+569.11	1707470.60	355151.30
13+168.57	1708226.80	356560.70

RIGHT

STATION	EASTING	NORTHING
0+000.00	1699892.10	347293.20
0+803.06	1700356.30	347948.50
3+672.18	1702950.20	349174.70
4+508.26	1703642.00	349644.20
4+691.79	1703777.40	349768.10
5+685.47	1704406.10	350537.60
6+862.19	1705278.30	351327.50
7+037.45	1705381.30	351469.30
7+300.46	1705488.90	351709.30
7+477.35	1705528.90	351881.60
8+701.63	1705569.80	353105.20
9+226.95	1705893.80	353518.70
10+275.94	1706788.70	354066.00
1-+514.39	1706946.80	354244.50
11+560.00	1707381.00	355195.70
13+135.70	1708125.90	356584.20

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK "BOAT RAMP".
BENCH MARK IS A STANDARD C.O.E. DISK MARKED "BOATRAMP MLW 1986".
BENCH MARK IS LOCATED IN THE GRASS COVERED PICNIC AREA OF THE CITY OF SEAFORD, DELEWARE BOAT RAMP LOCATED ON THE WEST SHORE OF THE NANTICOKE RIVER.

BENCHMARK ELEV. IS 5.48' ABOVE MLLW FOR THE '83-'01 TIDAL EPOCH.

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8. CHANNEL WIDTH IS 100 FEET.
9. SURVEYED 10, 11, & 12 MAY JUNE.
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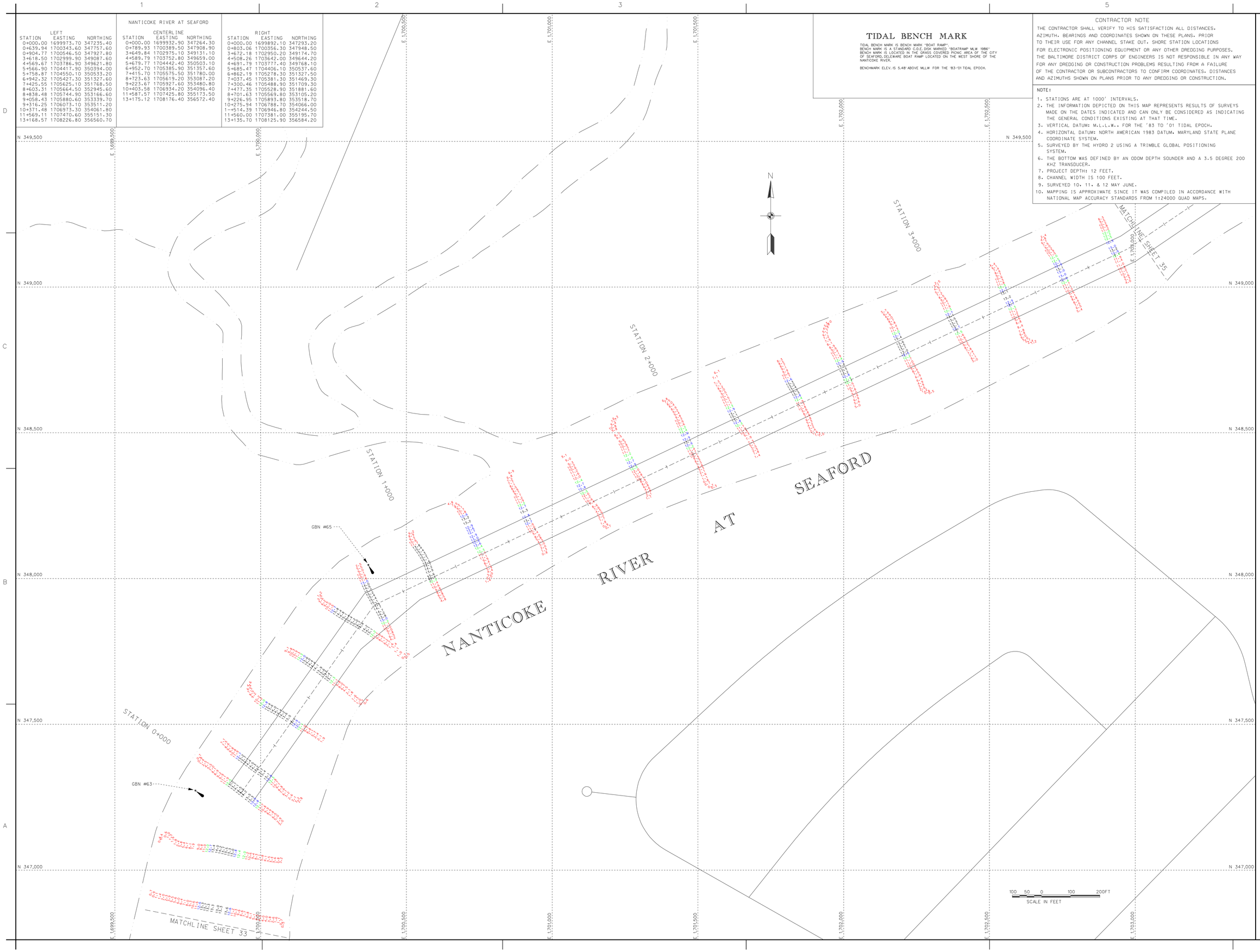


US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

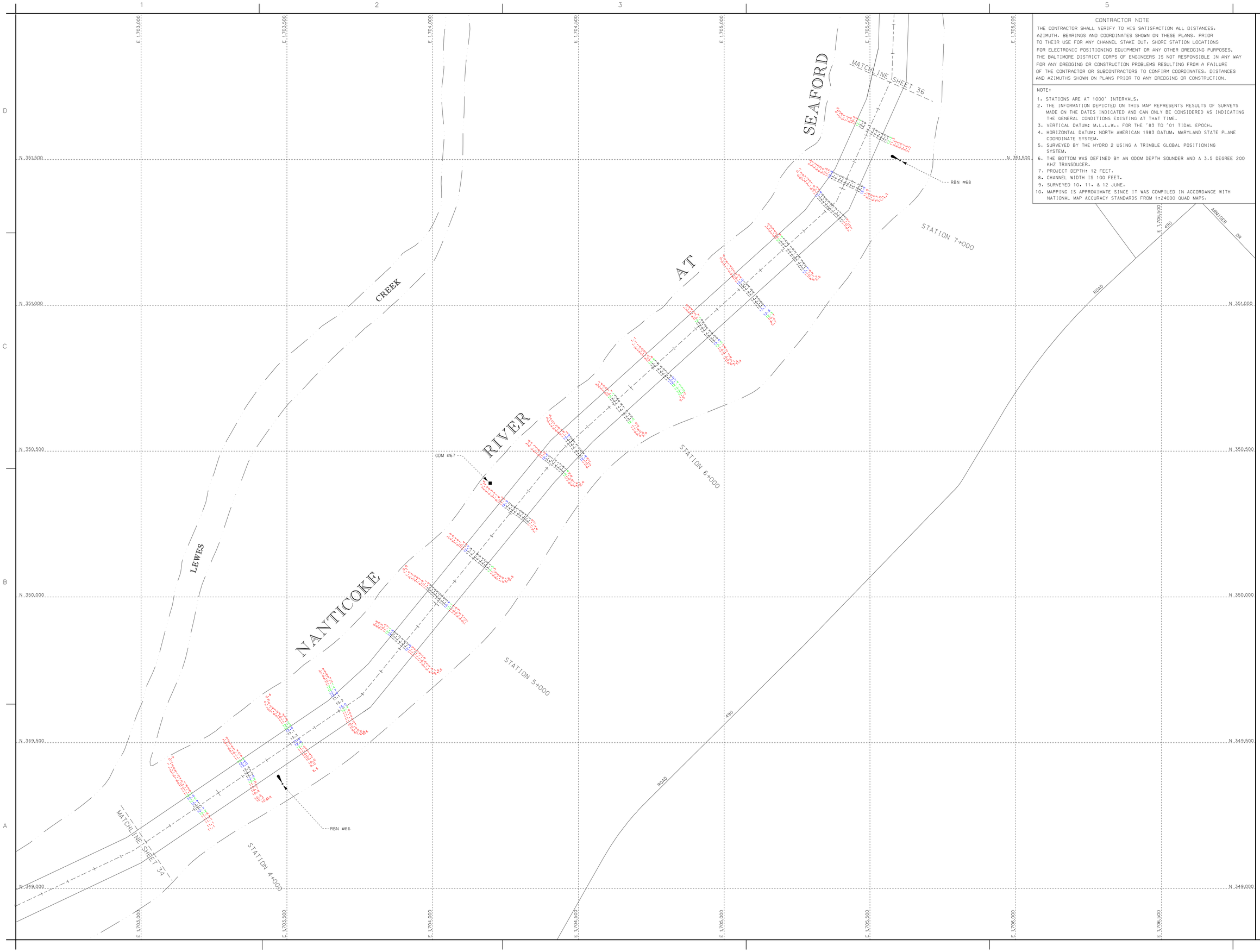
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: | Date: JUNE 08 | Rev:
Dwn by: JAH | Ckd by: SMG | Drawing No. FILE1 02 MAP1 8-053
Reviewed by: SMG | Drawing code:
Submitted by: | File name: 0SAS037JAN02B
Chief, Nav. Branch | Plot date: Plot scale:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER AT SEAFORD
STATIONS 0+000 TO 3+700

Sheet reference number:
V 134
Sheet 34 of 37



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US Army Corps of Engineers
Baltimore District

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

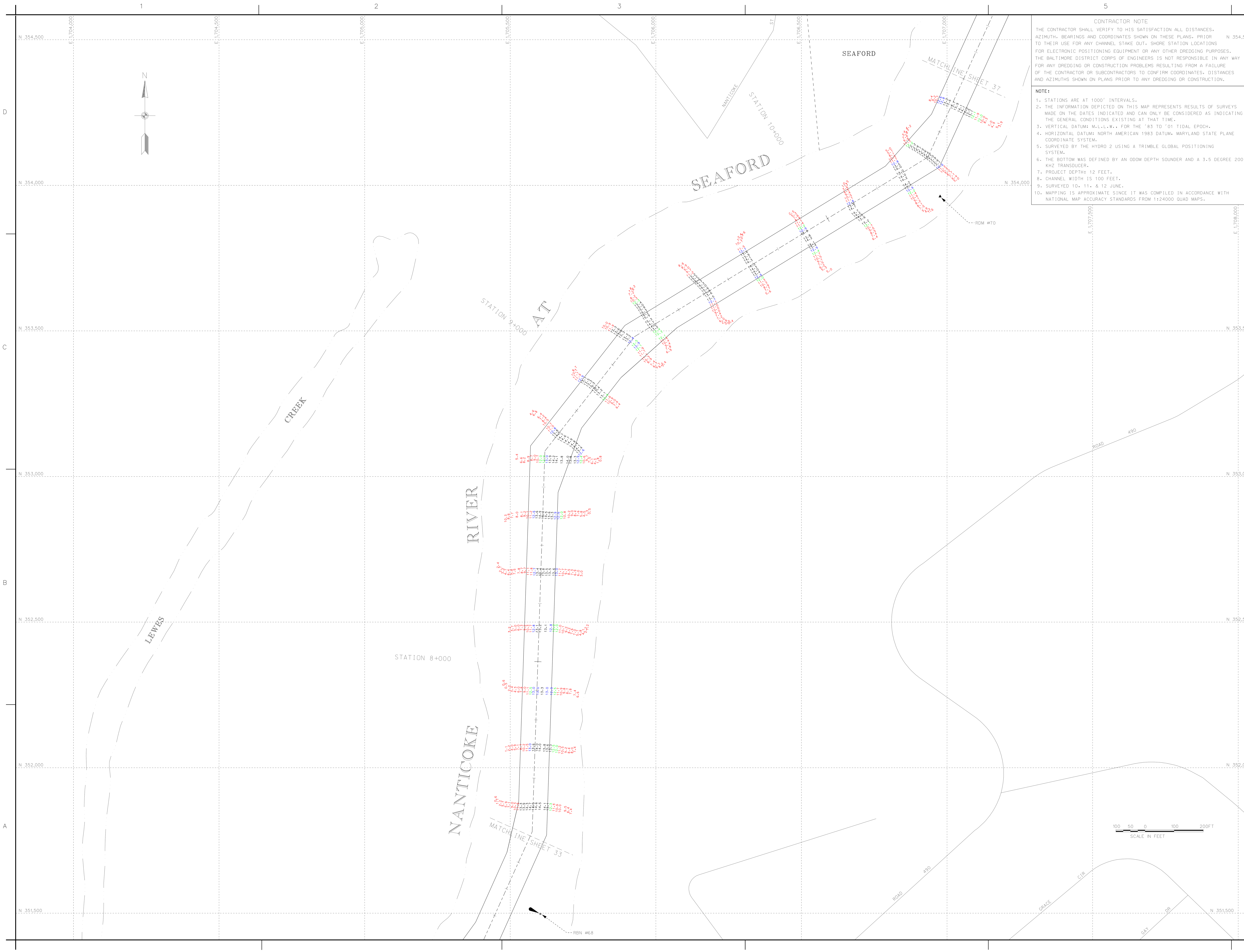
U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by: | Dwn by: JAH | Ckd by: SMC | Reviewed by: SMC | Submitted by: | Date: | Scale: NONE | Date: JUNE 108 | Contract No. FILE: 02 MAP: 8-054 | Drawing code: | File name: 0102U03TLANE.DGN | Plot date: | Plot scale: | Rev.:

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER AT SEAFORD
STATIONS 3+800 TO 7+400

Sheet reference number:
V 135
Sheet 35 of 37



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US Army Corps of Engineers
Baltimore District

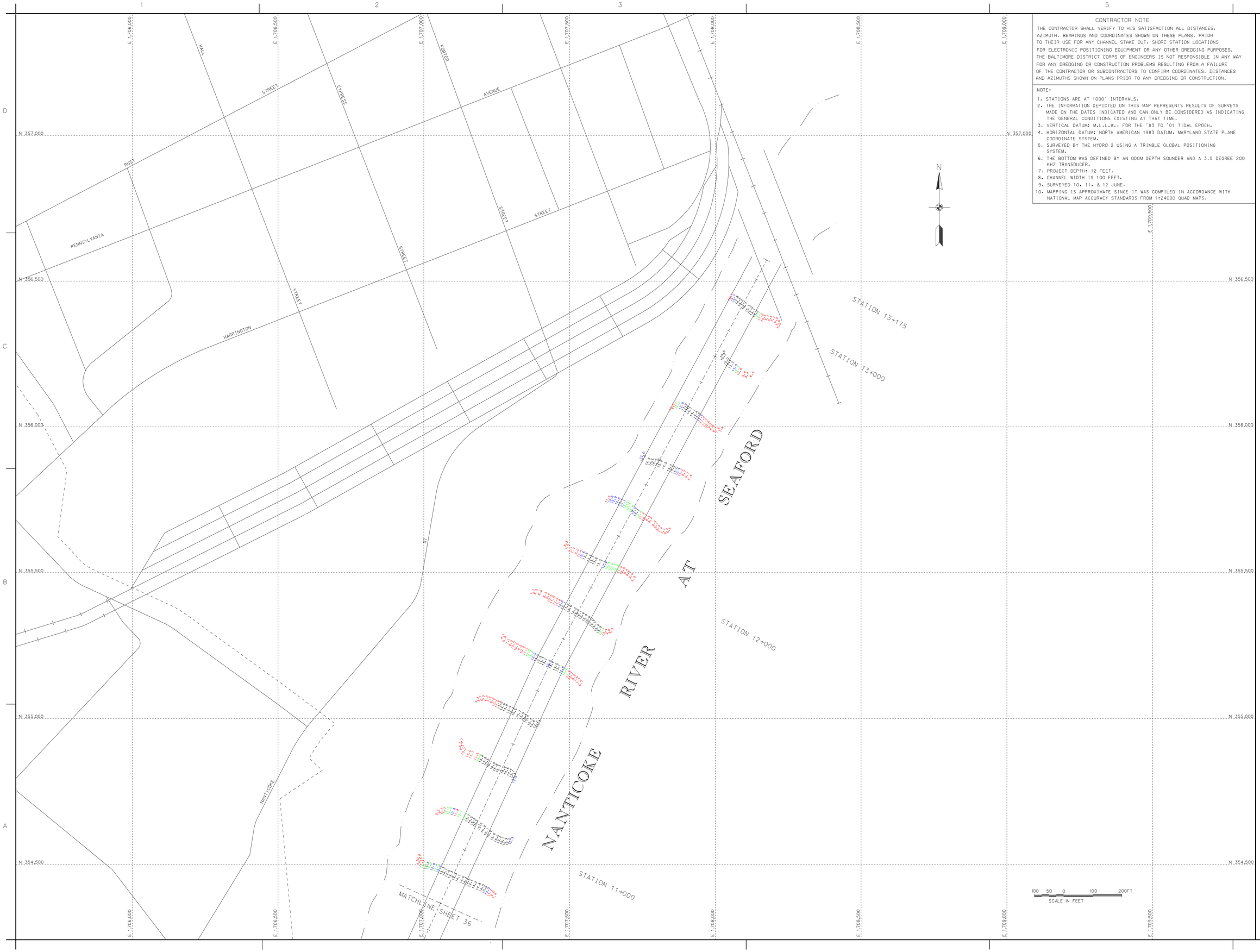
Designed by:	Date: JUNE '08
Dwn by: JAH	Ckd by: SMG
Design file no. FILE: 02 MAP: 8-055	Rev.
Reviewed by: SMG	Drawing code:
Submitted by:	File name: SH36C037JUNE1208
Chief, Nav. Branch	Plot date:
	Plot scale:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER AT SEAFORD
STATIONS 7+500 TO 10+700

Sheet reference number:
V 136
Sheet 36 of 37



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US Army Corps of Engineers
Baltimore District

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U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Designed by:
Dwn by: JAH
Ckd by: SMG
Reviewed by: SJG
Submitted by:
Chief, Hyd. Branch

Date: JUNE 108
Scale: 1" = 100'
Drawing code: FILE: D2
File name: H:\ACTIVE\CAD\
Plot date:
Plot scale:
Rev.

SUSSEX COUNTY, DELAWARE
DORCHESTER AND WICOMICO COUNTIES
MARYLAND

CONDITION SURVEY
NANTICOKE RIVER AT SEAFORD
STATIONS 10+800 TO 13+175

Sheet reference number:
V 137
Sheet 37 of 37