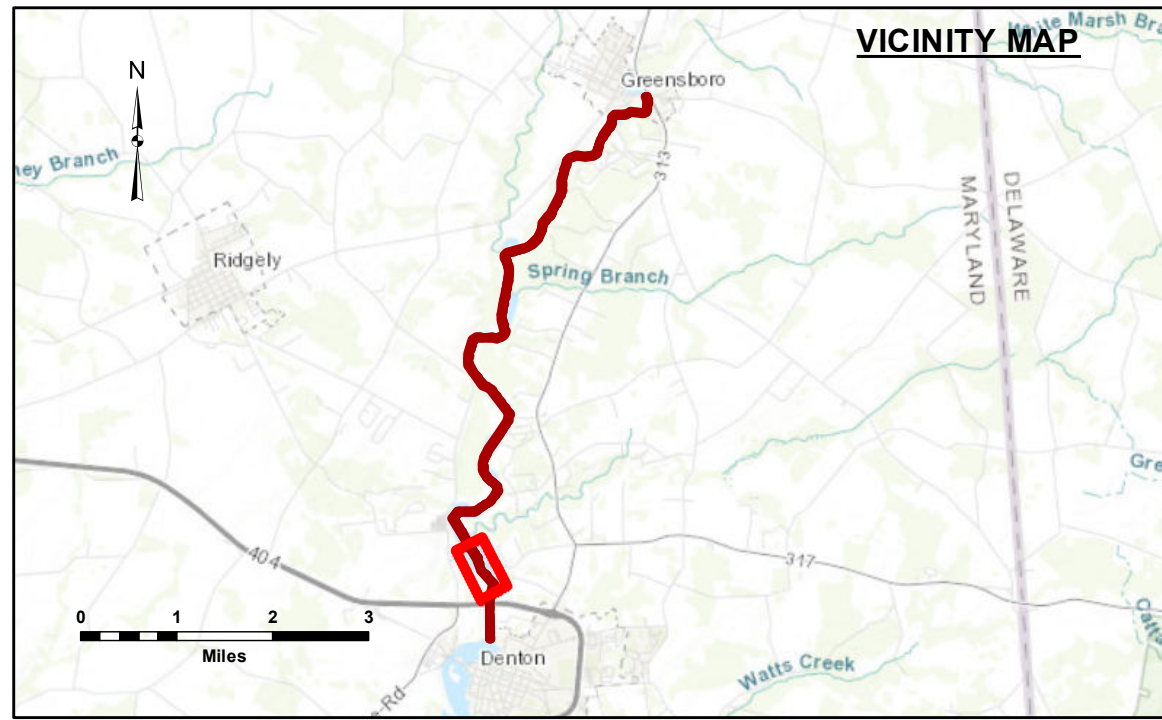
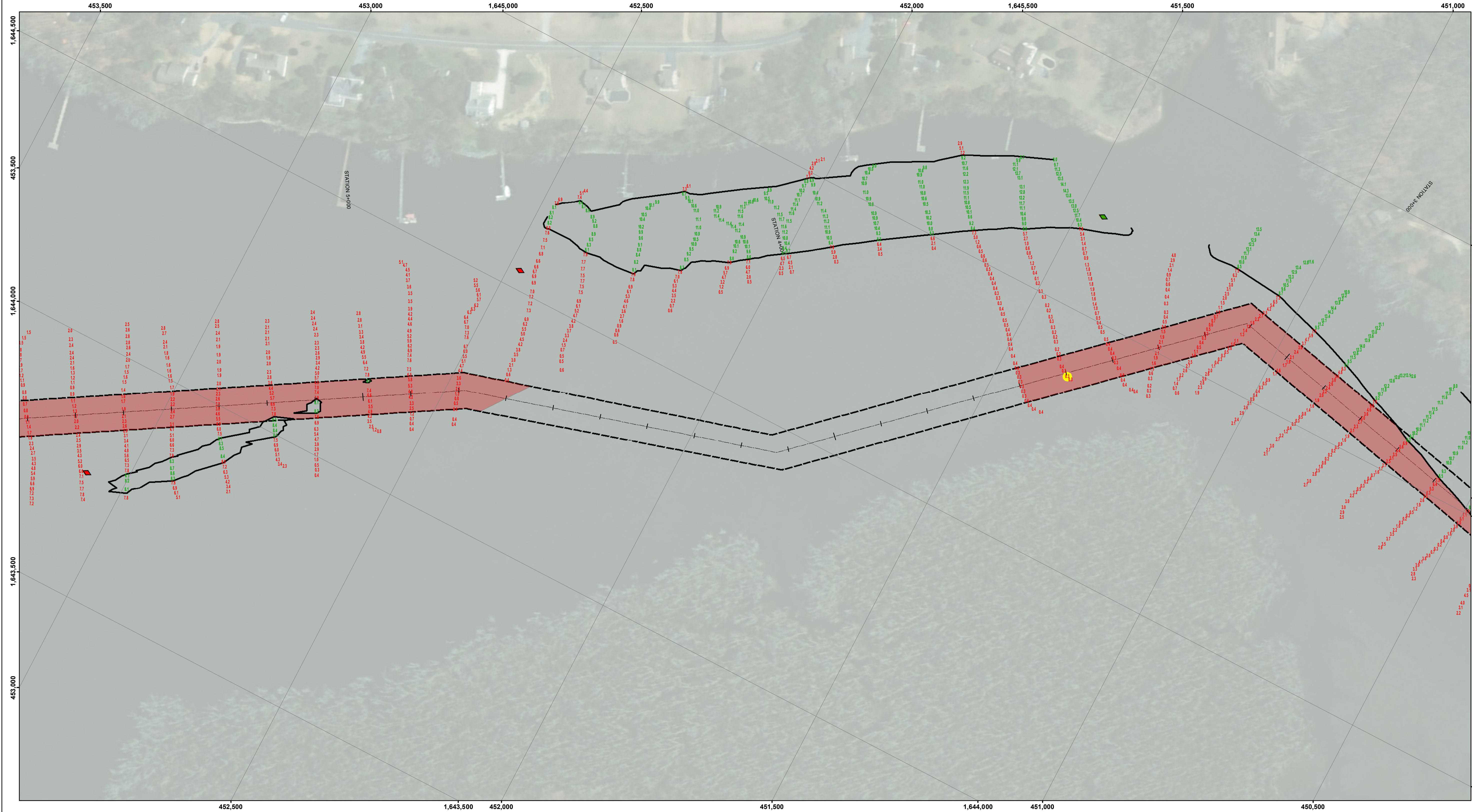




LEGEND

Federal Navigation Channel Toe

Federal Navigation Center Line

—

Contour Line

Shoaling Area

Shoalest Sounding

Red Navigation Buoy

Green Navigation Buoy

Nun

Can

Red Day Beacon

Green Day Beacon

0

200

400

600

Scale in Feet

NOTES:

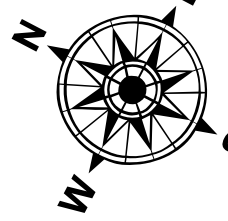
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BENCH MARK	MLLW ELEV.
27-03	3.80'
27-02	3.71'
27-05	4.03'



U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Submitted:

Surveyed By:

Recommended:

Chief, Survey Team

Plotted By:

Checked By:

Approved:

Chief, Survey/Debris Removal Section

CAROLINE COUNTY

Choptank River

MD_27_027_20220421_CS

21 April 2022

Sheet

Reference

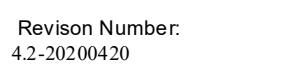
Number

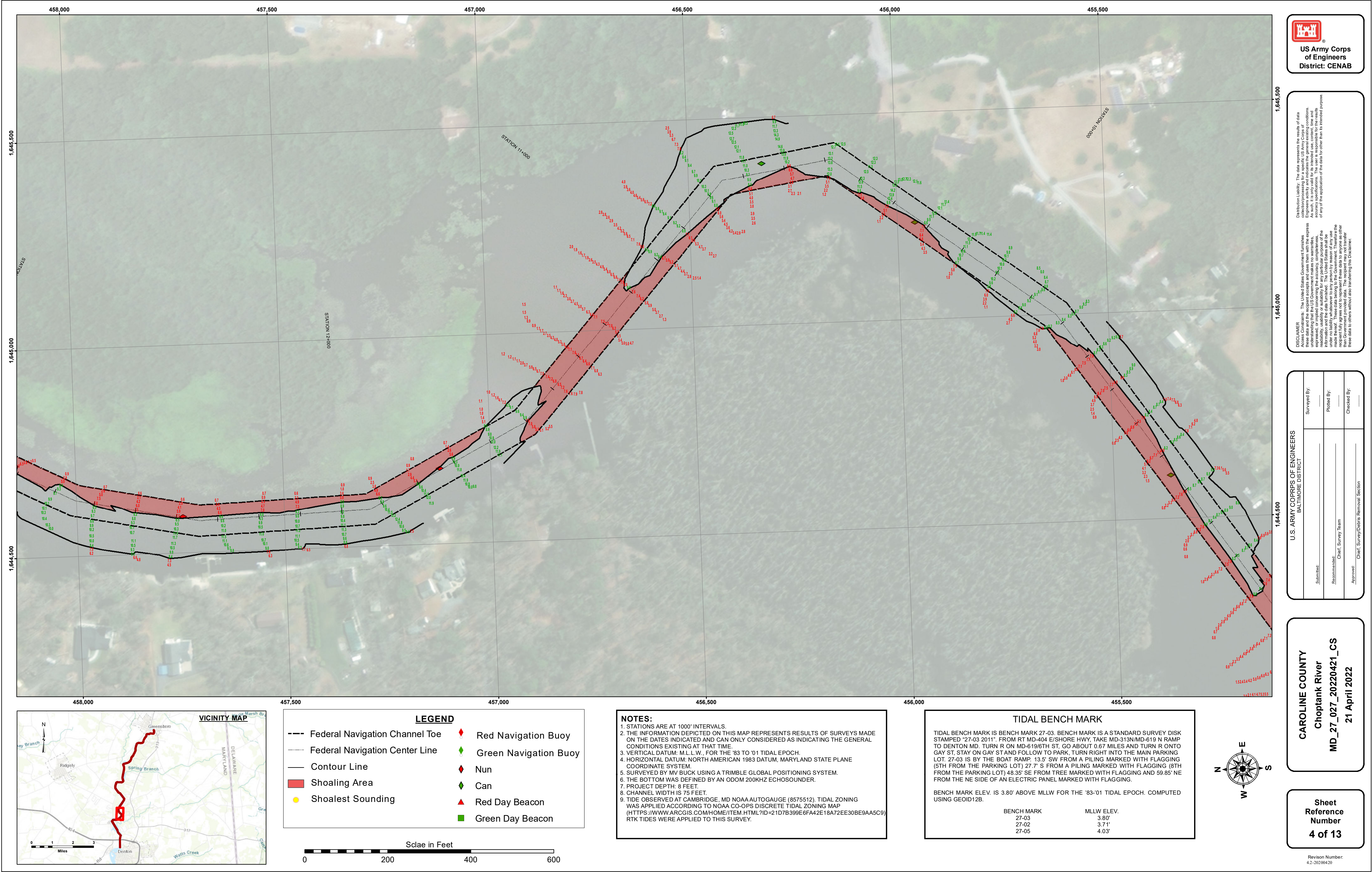
2 of 13

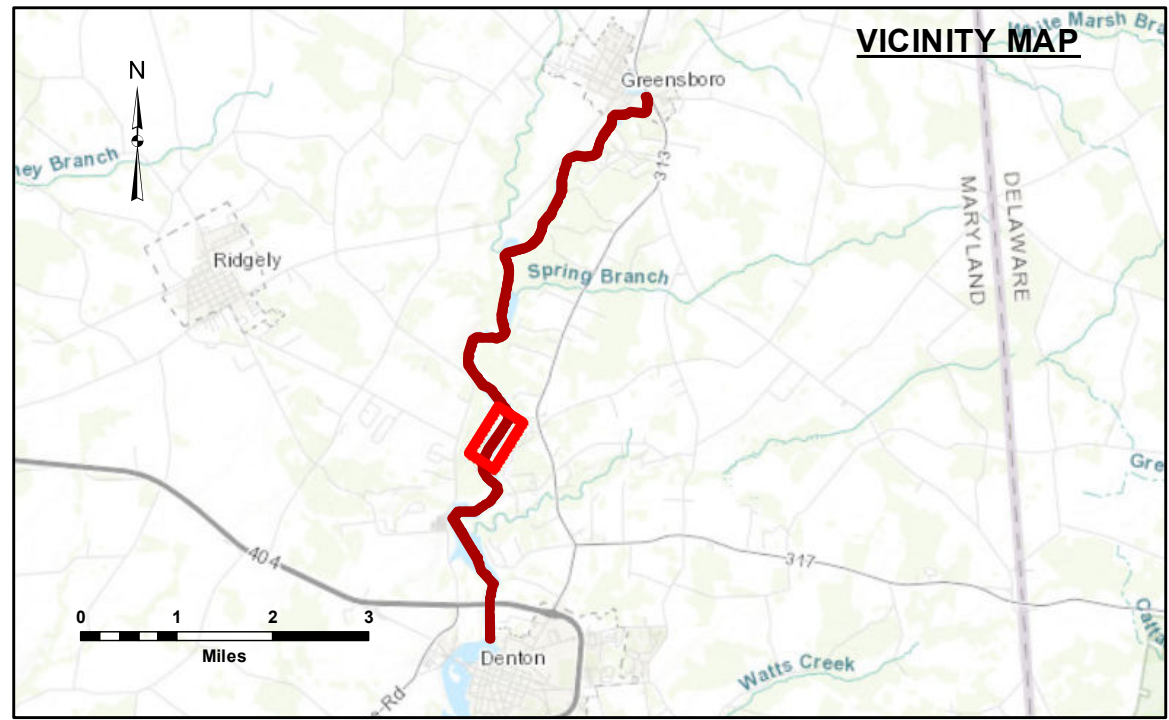
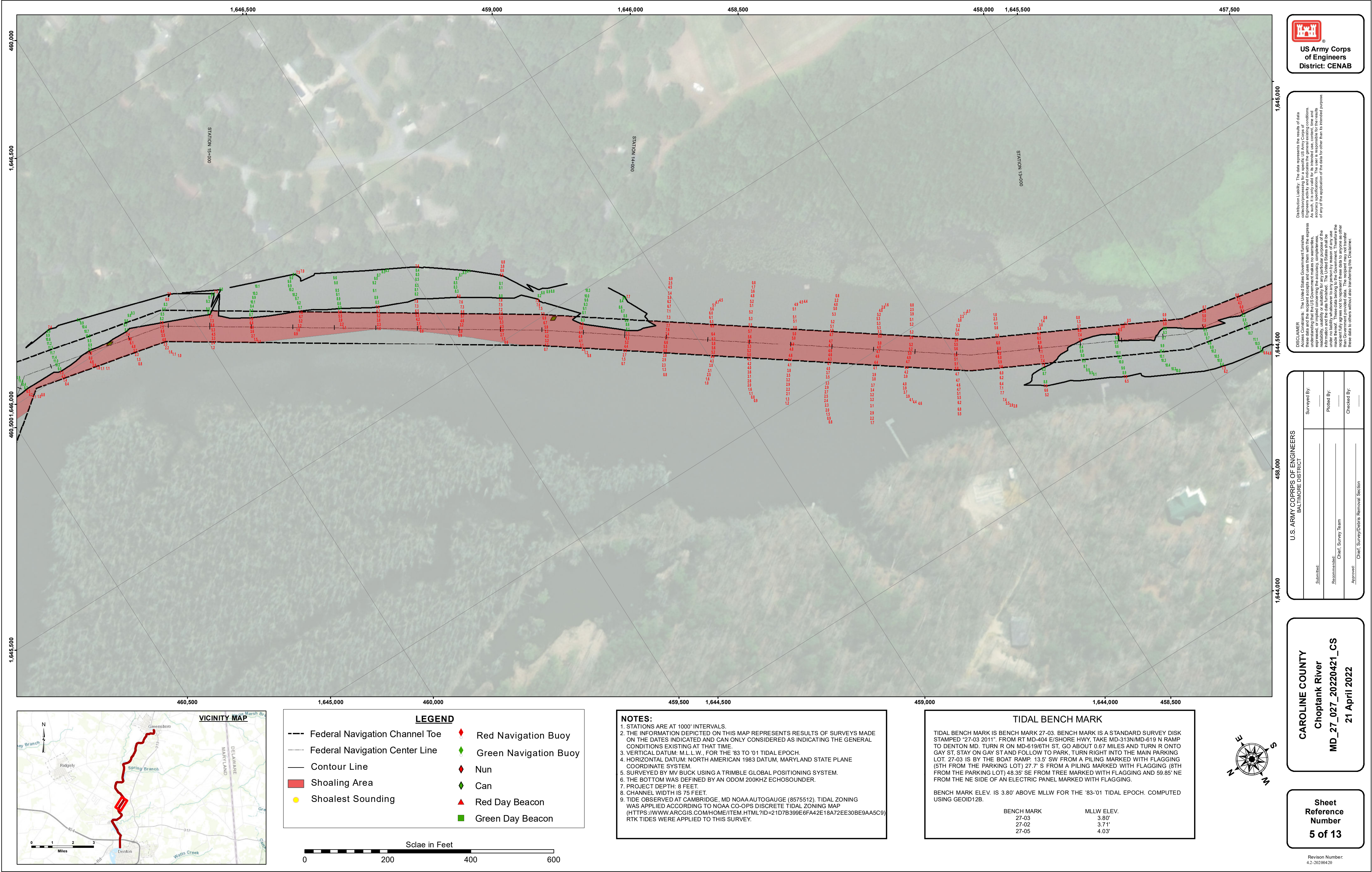


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LEGEND

--- Federal Navigation Channel Toe	◆ Red Navigation Buoy
--- Federal Navigation Center Line	◆ Green Navigation Buoy
— Contour Line	◆ Nun
■ Shoaling Area	◆ Can
● Shoalest Sounding	▲ Red Day Beacon
	■ Green Day Beacon

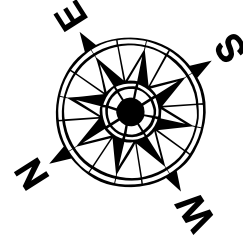
Scale in Feet

0 200 400 600

NOTES:

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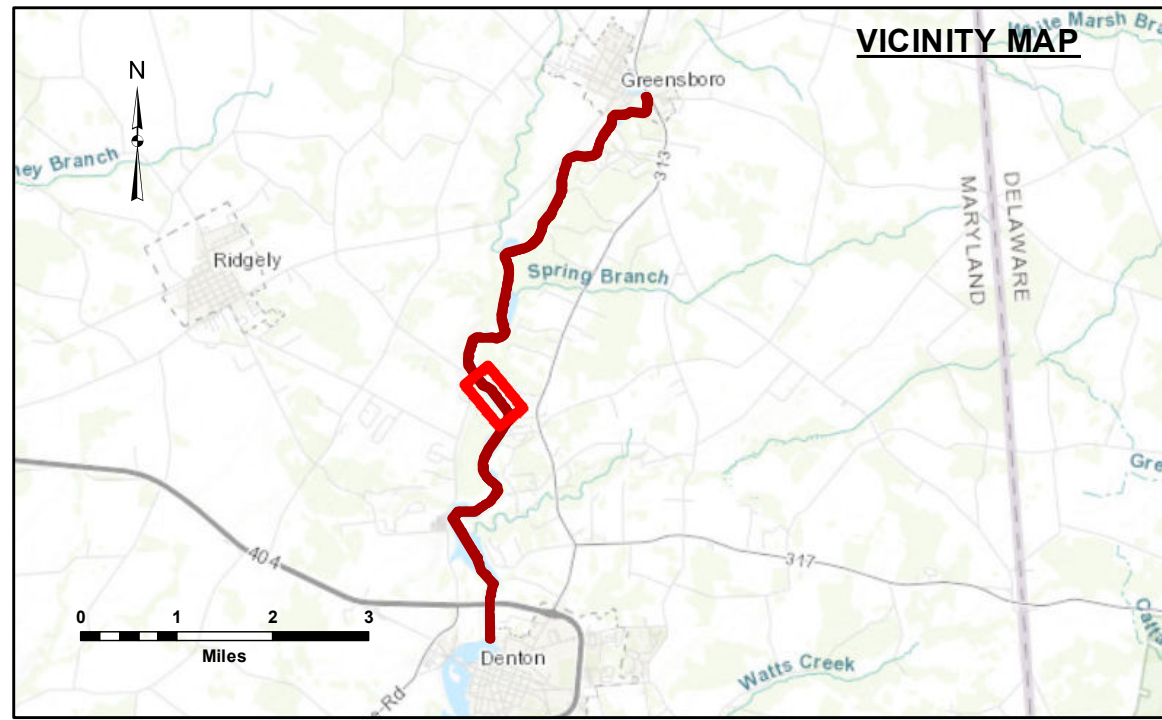
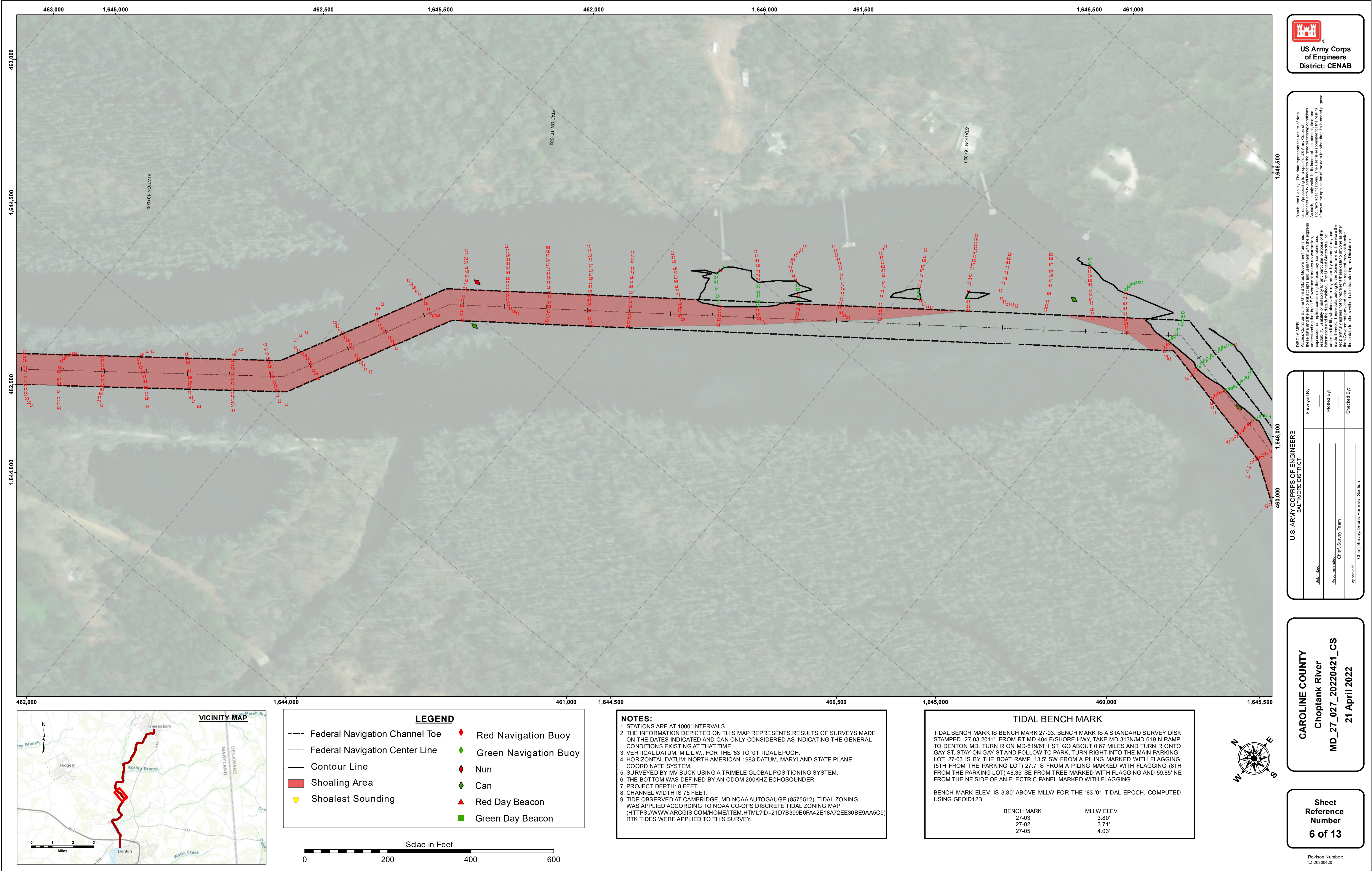
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U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT	
Submitted By: _____	Surveyed By: _____
Recommended By: _____	Plotted By: _____
Approved By: _____	Checked By: _____

CAROLINE COUNTY
Choptank River
MD_27_027_20220421_CS
21 April 2022

Sheet
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Number
5 of 13



LEGEND

---	Federal Navigation Channel Toe	◆	Red Navigation Buoy
---	Federal Navigation Center Line	◆	Green Navigation Buoy
---	Contour Line	◆	Nun
■	Shoaling Area	◆	Can
●	Shoalest Sounding	▲	Red Day Beacon
		■	Green Day Beacon

Scale in Feet

0 200 400 600

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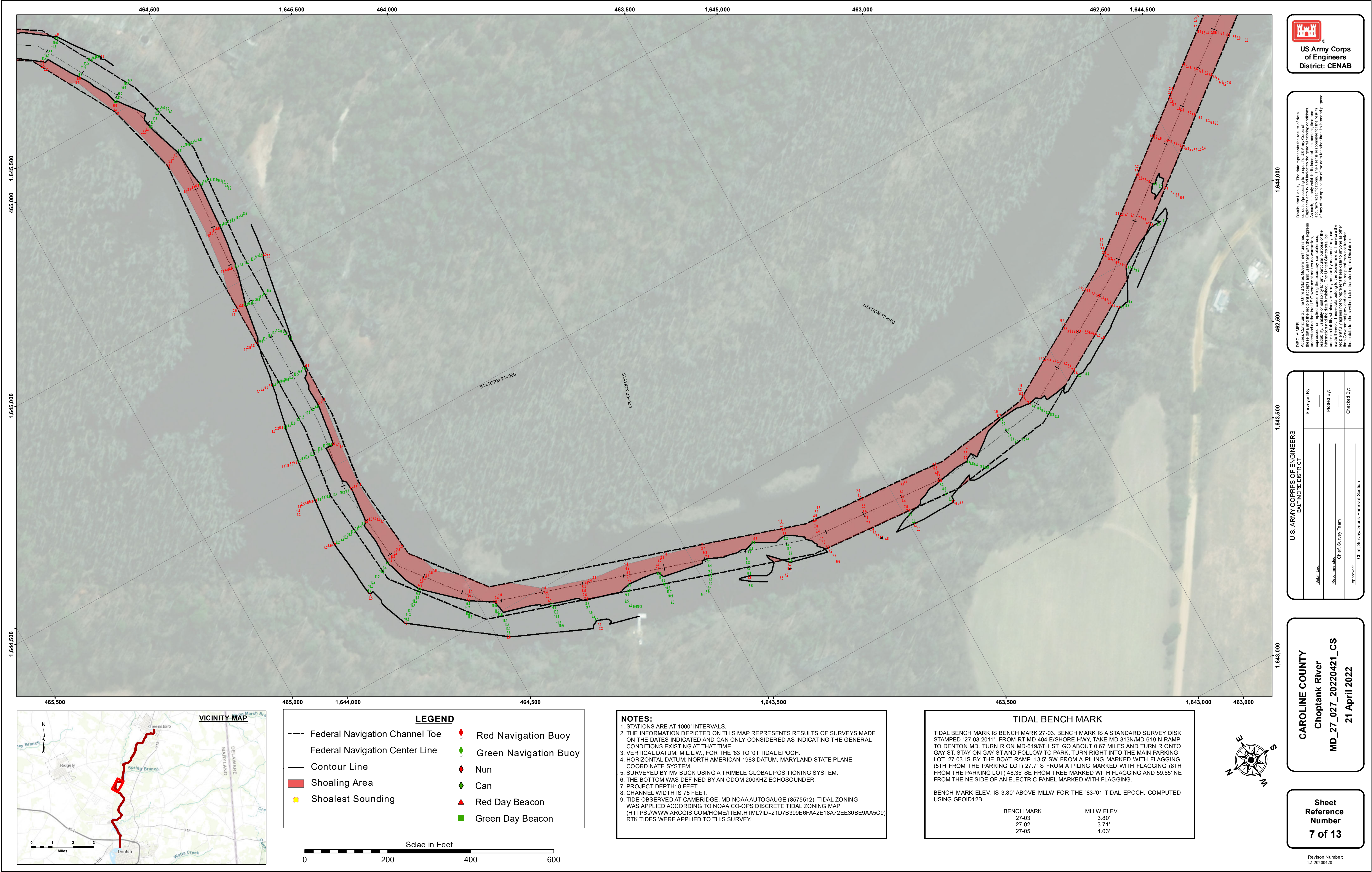
U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT	
Submitted: _____	Surveyed By: _____
Recommended: _____	Plotted By: _____
Approved: _____	Checked By: _____
Chief, Survey/Detrits Removal Section	

CAROLINE COUNTY
Choptank River
MD_27_027_20220421_CS
21 April 2022

Sheet Reference Number 6 of 13



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LEGEND

--- Federal Navigation Channel Toe

--- Federal Navigation Center Line

— Contour Line

■ Shoaling Area

● Shoalest Sounding

◆ Red Navigation Buoy

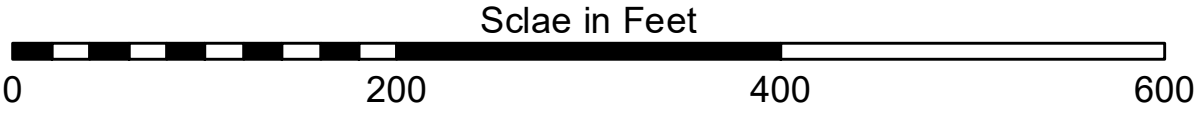
◆ Green Navigation Buoy

◆ Nun

◆ Can

▲ Red Day Beacon

■ Green Day Beacon



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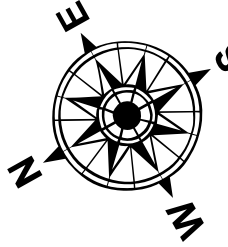
6. THE BOTTOM WAS DEFINED BY AN ODOM 200KHZ ECHOSOUNDER.

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U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Checked By:	

CAROLINE COUNTY

Choptank River

MD_27_027_20220421_CS

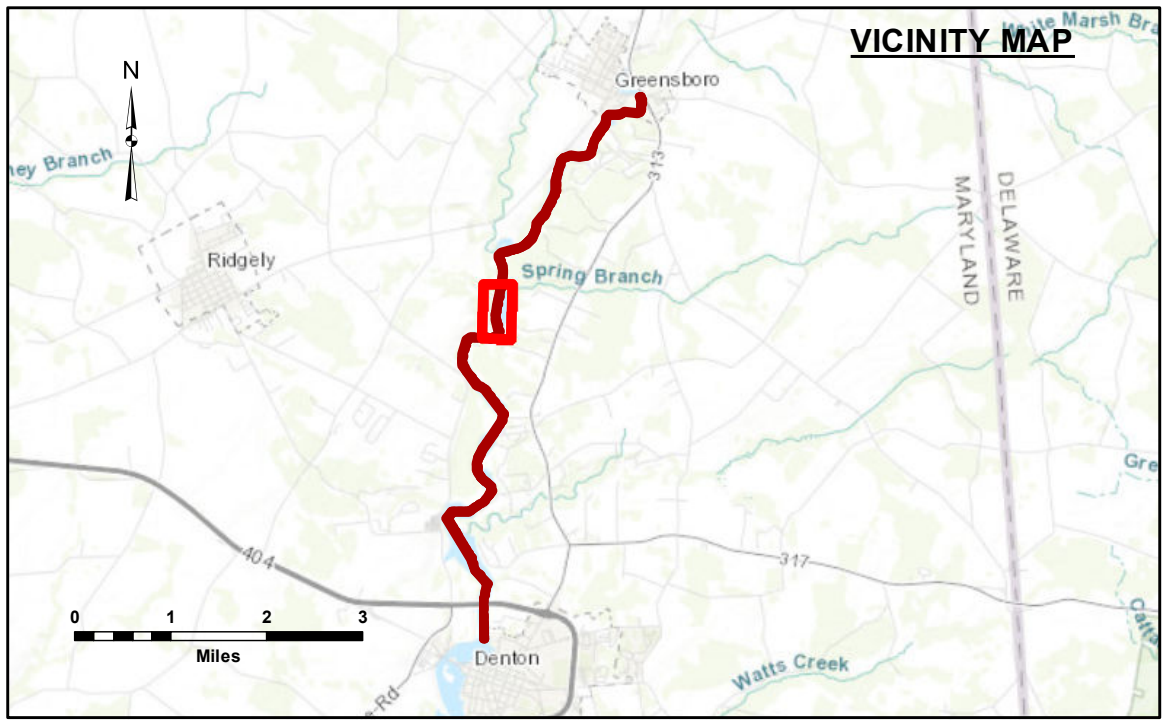
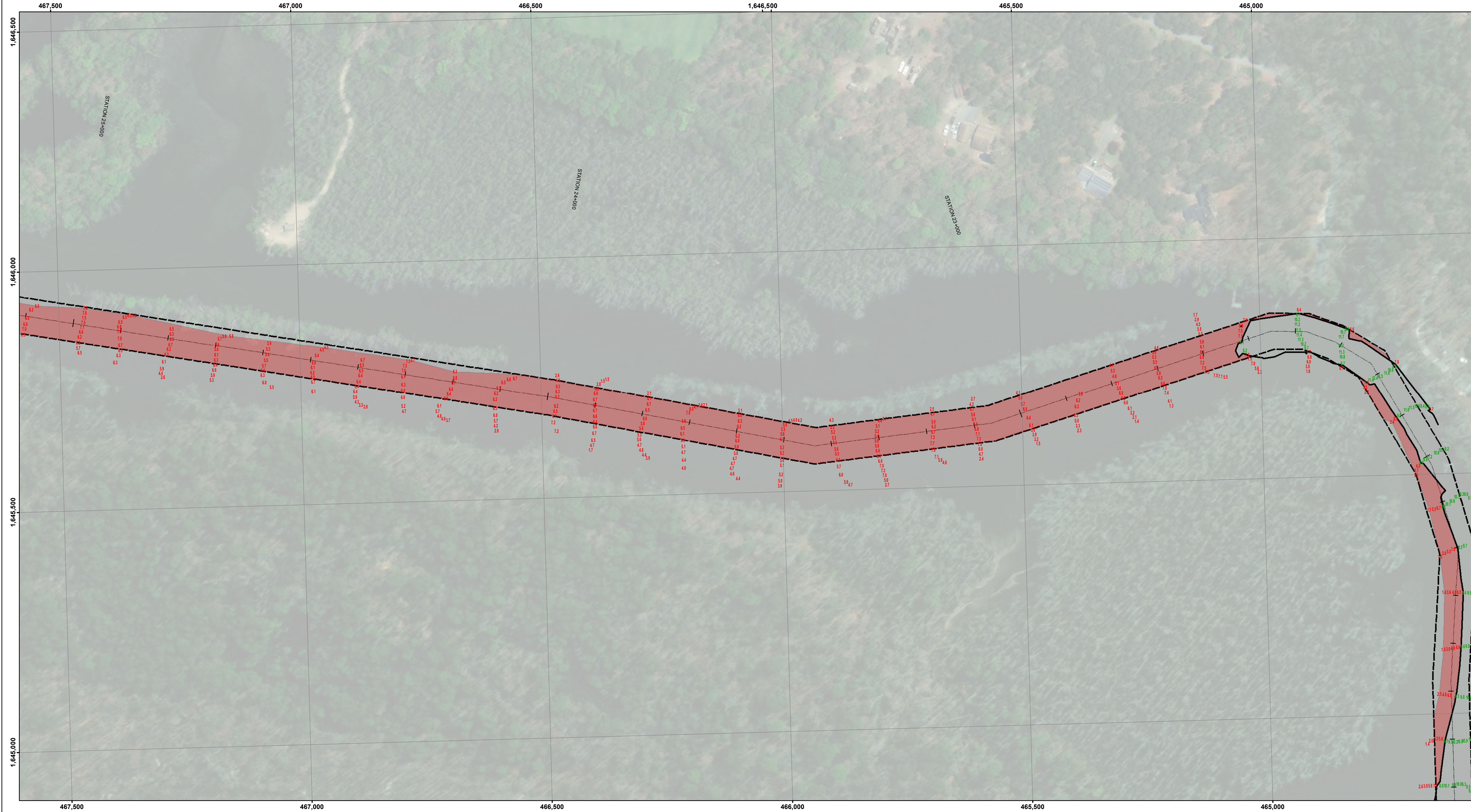
21 April 2022

Sheet
Reference
Number

7 of 13

US Army Corps
of Engineers
District: CENAB

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LEGEND

--- Federal Navigation Channel Toe

--- Federal Navigation Center Line

— Contour Line

■ Shoaling Area

● Shoalest Sounding

◆ Red Navigation Buoy

◆ Green Navigation Buoy

◆ Nun

◆ Can

▲ Red Day Beacon

■ Green Day Beacon

Scale in Feet

0 200 400 600

NOTES:

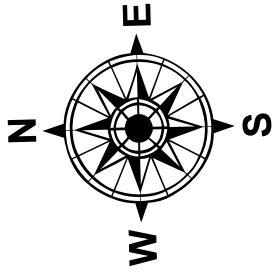
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U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Submitted:	Surveyed By:
Recommended:	Plotted By:
Approved:	Checked By:

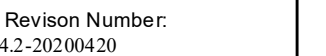
Chief, Survey/Debris Removal Section

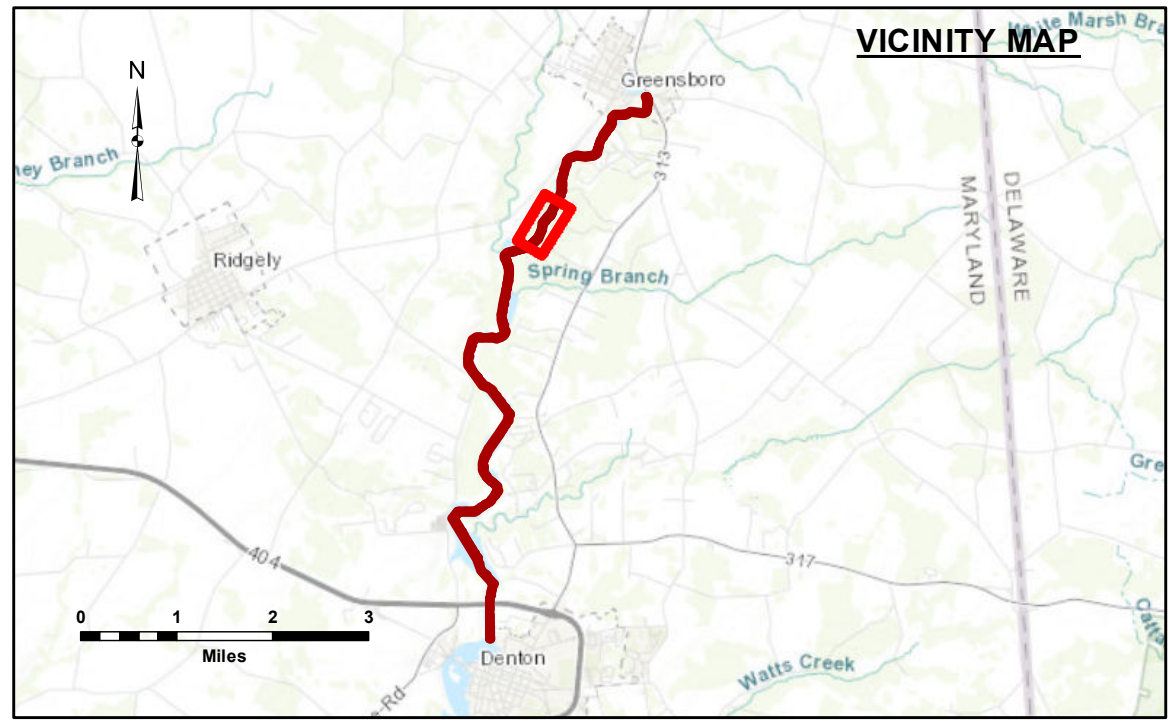
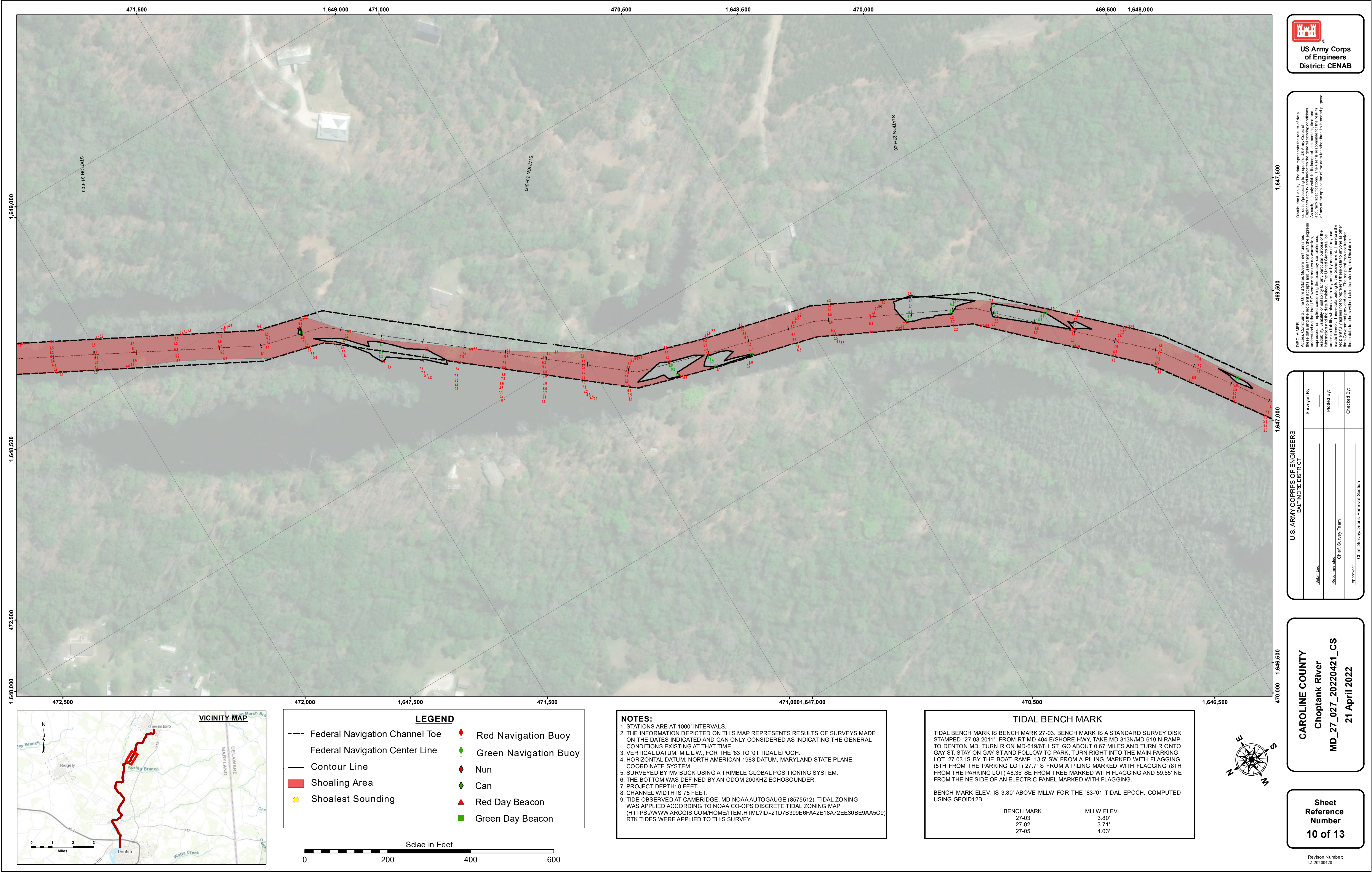
CAROLINE COUNTY
Choptank River
MD_27_027_20220421_CS
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Sheet
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US Army Corps
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LEGEND

--- Federal Navigation Channel Toe	◆ Red Navigation Buoy
--- Federal Navigation Center Line	◆ Green Navigation Buoy
— Contour Line	◆ Nun
■ Shoaling Area	◆ Can
● Shoalest Sounding	▲ Red Day Beacon
	■ Green Day Beacon

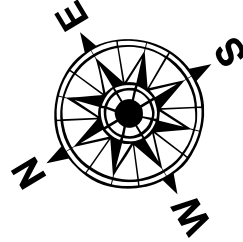
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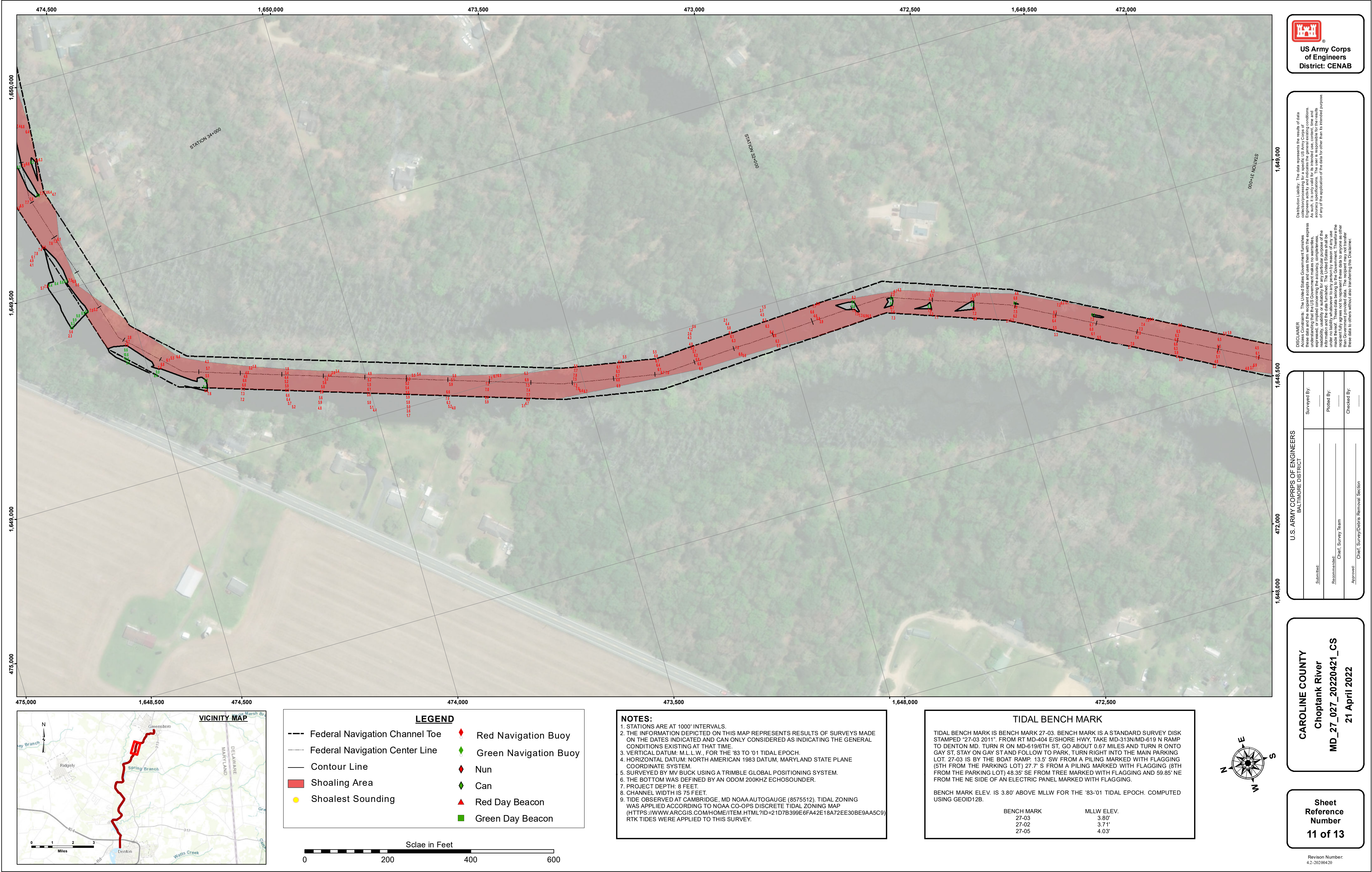


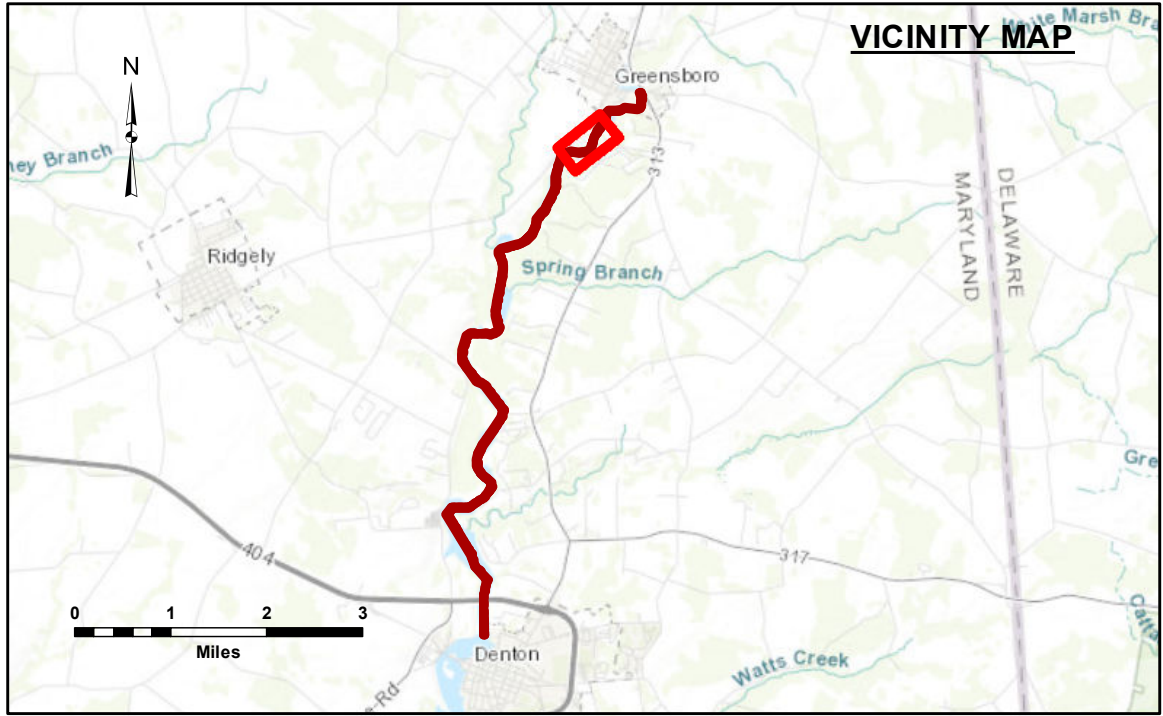
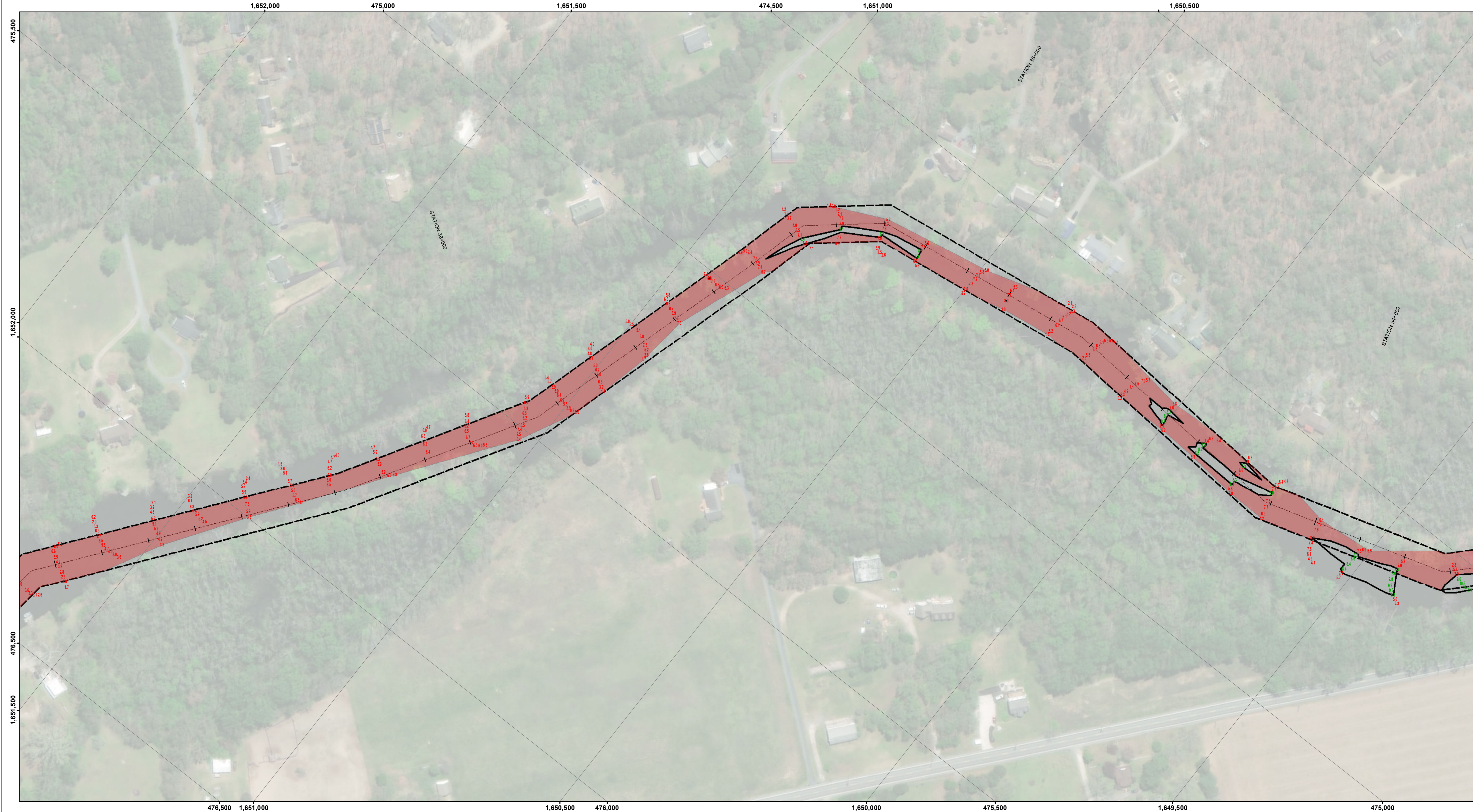
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U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
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CAROLINE COUNTY
Choptank River
MD_27_027_20220421_CS
21 April 2022

Sheet
Reference
Number
10 of 13





LEGEND

--- Federal Navigation Channel Toe

--- Federal Navigation Center Line

— Contour Line

■ Shoaling Area

● Shoalest Sounding

◆ Red Navigation Buoy

◆ Green Navigation Buoy

◆ Nun

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0 200 400 600

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7. PROJECT DEPTH: 8 FEET.

8. CHANNEL WIDTH IS 75 FEET.

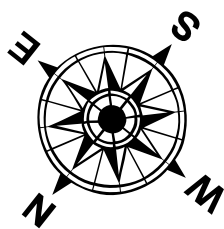
9. TIDE OBSERVED AT CAMBRIDGE, MD NOAA AUTOGAUGE (8575512). TIDAL ZONING WAS APPLIED ACCORDING TO NOAA CO-OPS DISCRETE TIDAL ZONING MAP ([HTTPS://WWW.ARCGIS.COM/HOME/ITEM.HTML?ID=21D7B399E6FA42E18A72EE30BE9AA5C9](https://www.arcgis.com/home/item.html?id=21D7B399E6FA42E18A72EE30BE9AA5C9)) RTK TIDES WERE APPLIED TO THIS SURVEY.

TIDAL BENCH MARK

TIDAL BENCH MARK IS BENCH MARK 27-03. BENCH MARK IS A STANDARD SURVEY DISK STAMPED "27-03 2011". FROM RT MD-404 E/SORE HWY, TAKE MD-313N/MD-619 N RAMP TO DENTON MD. TURN R ON MD-619/6TH ST. GO ABOUT 0.67 MILES AND TURN R ONTO GAY ST. STAY ON GAY ST AND FOLLOW TO PARK. TURN RIGHT INTO THE MAIN PARKING LOT. 27-03 IS BY THE BOAT RAMP. 13.5' SW FROM A PILING MARKED WITH FLAGGING (5TH FROM THE PARKING LOT) 27.7' S FROM A PILING MARKED WITH FLAGGING (8TH FROM THE PARKING LOT) 48.35' SE FROM TREE MARKED WITH FLAGGING AND 59.85' NE FROM THE NE SIDE OF AN ELECTRIC PANEL MARKED WITH FLAGGING.

BENCH MARK ELEV. IS 3.80' ABOVE MLLW FOR THE '83-'01 TIDAL EPOCH. COMPUTED USING GEOID12B.

BENCH MARK	MLLW ELEV.
27-03	3.80'
27-02	3.71'
27-05	4.03'



US Army Corps of Engineers
District: CENAB

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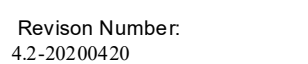
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U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT		
Submitted:	Surveyed By:	
Recommended:	Plotted By:	
Approved:	Chief, Survey Team	
	Chief, Survey/Detrits Removal Section	
	Checked By:	

CAROLINE COUNTY
Choptank River
MD_27_027_20220421_CS
21 April 2022

Sheet Reference Number
12 of 13



CHOPTANK RIVER

LEFT GEO		CENTERLINE GEO		RIGHT GEO		
EASTING	NORTHING	STATION	EASTING	NORTHING	EASTING	NORTHING
1653635.92	477927.91	0+00.00	1644979.88	447996.05	1645017.37	447996.84
1653555.05	477932.77	21+57.54	1644934.82	450153.12	1644972.41	450149.39
1653627.95	477718.39	31+08.92	1645141.00	451081.89	1645181.87	451092.98
1653582.42	477227.38	41+23.81	1644450.89	451825.86	1644478.18	451851.36
1653549.59	477119.85	47+85.13	1644285.29	452460.86	1644297.37	452480.08
1653449.16	477059.29	73+63.40	1642929.81	454666.10	1642974.36	454664.93
1652712.57	477126.99	78+38.59	1643197.04	455059.03	1643216.59	455021.10
1652459.70	476983.26	87+93.84	1644151.86	455038.27	1644163.22	455000.52
1651865.68	476942.47	98+28.89	1645002.62	455628.16	1645029.06	455600.86
1651704.73	476836.47	104+85.32	1645393.75	456155.33	1645433.29	456145.68
1651659.46	476871.66	107+52.96	1645351.21	456419.57	1645386.09	456438.89
1651624.42	476380.59	115+04.46	1644785.43	456914.19	1644815.48	456937.74
1651223.01	475853.13	119+31.63	1644589.25	457293.64	1644626.46	457303.33
1650996.92	475475.92	123+40.10	1644576.10	457701.90	1644613.72	457698.85
1650847.09	474958.46	126+47.47	1644635.37	458003.50	1644671.17	457991.21
1650812.94	474828.52	131+62.28	1644867.20	458463.16	1644899.35	458443.64
1650696.80	474731.64	141+96.23	1645471.36	459302.23	1645502.31	459281.03
1650243.92	474666.87	151+10.65	1645970.21	460068.60	1646005.34	460053.82
1649732.97	474700.48	154+68.74	1646048.11	460418.11	1646088.50	460426.97
1649335.15	474580.62	172+32.66	1644979.15	461821.23	1645003.76	461850.82
1649199.89	474441.11	176+67.99	1644590.57	462017.50	1644614.91	462047.22
1648914.59	473554.23	186+36.98	1643991.56	462779.15	1644022.61	462800.34
1648872.59	473321.04	190+23.63	1643795.64	463112.49	1643831.64	463125.25
1648902.09	472752.45	192+69.36	1643758.95	463355.47	1643796.68	463356.78
1648804.45	472478.27	196+42.57	1643788.93	463727.46	1643825.95	463720.06
1648375.42	471670.01	204+32.78	1644033.07	464479.02	1644065.24	464456.65
1648337.27	471518.89	206+68.02	1644217.50	464625.04	1644232.11	464588.78
1648175.43	471322.22	208+93.73	1644442.17	464646.76	1644441.32	464609.01
1648175.33	471322.10	210+67.17	1644613.87	464622.35	1644611.26	464584.84
1647854.27	470928.68	215+14.74	1645061.44	464623.41	1645059.94	464585.90
1647799.31	470741.42	217+87.89	1645333.48	464600.96	1645336.91	464563.04
1647738.68	470497.20	219+78.57	1645517.78	464650.80	1645532.01	464615.60
1647569.21	470156.85	222+26.73	1645734.50	464771.50	1645761.04	464743.36
1647262.72	469839.43	223+14.11	1645781.47	464845.19	1645815.08	464828.15
1646966.91	469633.50	223+77.18	1645804.32	464903.97	1645841.51	464896.13
1646760.68	469565.76	224+48.28	1645807.50	464975.00	1645845.25	464979.66
1645872.68	469321.76	230+64.40	1645630.93	465565.28	1645867.88	465572.59
1645768.54	469182.70	234+31.92	1645594.13	465930.95	1645832.02	465928.89
1645762.51	469043.23	239+93.29	1645710.40	466480.14	1645747.20	466472.89
1645899.88	468711.04	251+51.27	1645918.40	467619.28	1645955.29	467612.55
1645968.00	468405.96	256+86.39	1646010.78	468146.37	1645955.34	467612.81
1645973.22	468149.25	259+50.54	1646005.42	468410.47	1646047.72	468139.90
1645881.51	467626.02	262+70.13	1645935.77	468722.37	1646048.28	468147.13
1645881.46	467625.76	266+24.55	1645800.34	469049.90	1646042.83	468414.98
1645673.61	466487.40	267+44.26	1645805.51	469169.50	1645971.66	468733.71
1645556.23	465933.00	268+93.56	1645895.00	469289.00	1645838.16	469056.56
1645593.98	465557.96	278+02.55	1646771.51	469529.84	1645842.47	469156.30
1645769.75	464970.34	280+26.03	1646983.83	469599.58	1645917.32	469256.24
1645767.13	464911.81	283+95.82	1647287.15	469810.74	1646782.33	469493.92
1645747.85	464862.22	288+46.31	1647800.21	470134.96	1647000.75	469565.67
1645707.96	464799.64	292+36.41	1647774.08	470484.17	1647311.58	469782.06
1645503.56	464685.61	294+91.37	1647835.52	470731.82	1647631.20	470113.07
1645330.04	464638.87	296+78.15	1647888.12	470910.84	1647809.49	470471.14
1645062.94	464660.91	301+78.37	1648204.39	471298.39	1647871.72	470721.81
1644616.48	464659.85	304+41.48	1648371.58	471501.55	1647921.96	470893.01
1644443.01	464684.52	306+01.22	1648410.67	471656.44	1648233.34	471274.58
1644202.89	464661.31	315+14.50	1648838.86	472463.11	1648233.44	471274.68
1644000.91	464501.38	318+15.77	1648939.93	472746.92	1648405.88	471484.22
1643751.90	463734.86	323+88.28	1648910.26	473318.66	1648445.92	471642.86
1643721.22	463354.15	326+18.39	1648951.05	473545.13	1648871.98	472445.53
1643759.64	463099.73	335+38.77	1649232.91	474421.29	1648874.19	472450.53
1643960.52	462757.96	337+14.59	1649355.29	474547.52	1648977.77	472741.39
1644566.24	461987.78	341+13.54	1649737.28	474662.81	1648947.93	473316.28
1644954.55	461791.65	346+22.72	1650245.36	474629.20	1648987.52	473536.02
1646007.72	460409.25	350+94.76	1650712.65	474696.02	1649265.93	474401.48
1645935.08	460083.37	352+68.62	1650846.16	474807.40	1649375.44	474514.43
1645440.42	459323.43	354+14.50	1650883.24	474948.48	1649741.60	474624.75
1644835.04	458482.68	359+47.87	1651031.59	475460.81	1650246.80	474591.52
1644599.57	458015.79	363+80.71	1651254.11	475832.07	1650728.50	474660.41
1644538.48	457704.95	370+51.65	1651680.43	476365.99	1650879.38	474786.28
1644552.04	457283.95	373+52.23	1651696.36	476664.41	1650919.39	474938.50
1644755.39	456890.65	375+06.24	1651737.15	476812.91	1651066.26	475445.71
1645316.34	456400.24	376+74.98	1651878.08	476905.73	1651285.20	475811.01
1645354.22	456164.98	382+69.10	1652470.80	476946.43	1651696.44	476351.38
1644976.18	455655.46	385+56.74	1652720.86	477088.57	1651733.26	476657.16
1644140.50	455076.03	392+96.93	1653457.95	477020.82	1651769.57	476789.36
1643177.48	455096.97	394+40.80	1653581.26	477094.94	1651890.48	476868.99
1642885.26	454667.28	395+71.85	1653619.41	477220.10	1652481.90	476909.61
1644233.21	452441.23	400+76.80	1653666.03	477722.89	1652729.16	477050.15
1644423.20	451800.35	402+95.70	1653595.49	477930.33	1653466.75	476982.35
1645100.13	451070.81				1653612.93	477070.22
1644897.24	450156.84				1653656.40	477212.83
1644942.38	447995.27				1653704.11	477727.39
					1653635.92	477927.91