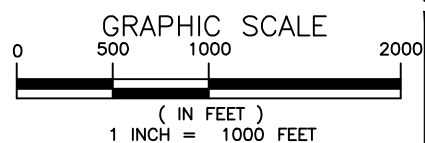


MAINTENANCE DREDGING  
AT  
CHARLESTOWN MARINA  
CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

VICINITY MAP

DATE: MAY 2024 SHEET 1 OF 11



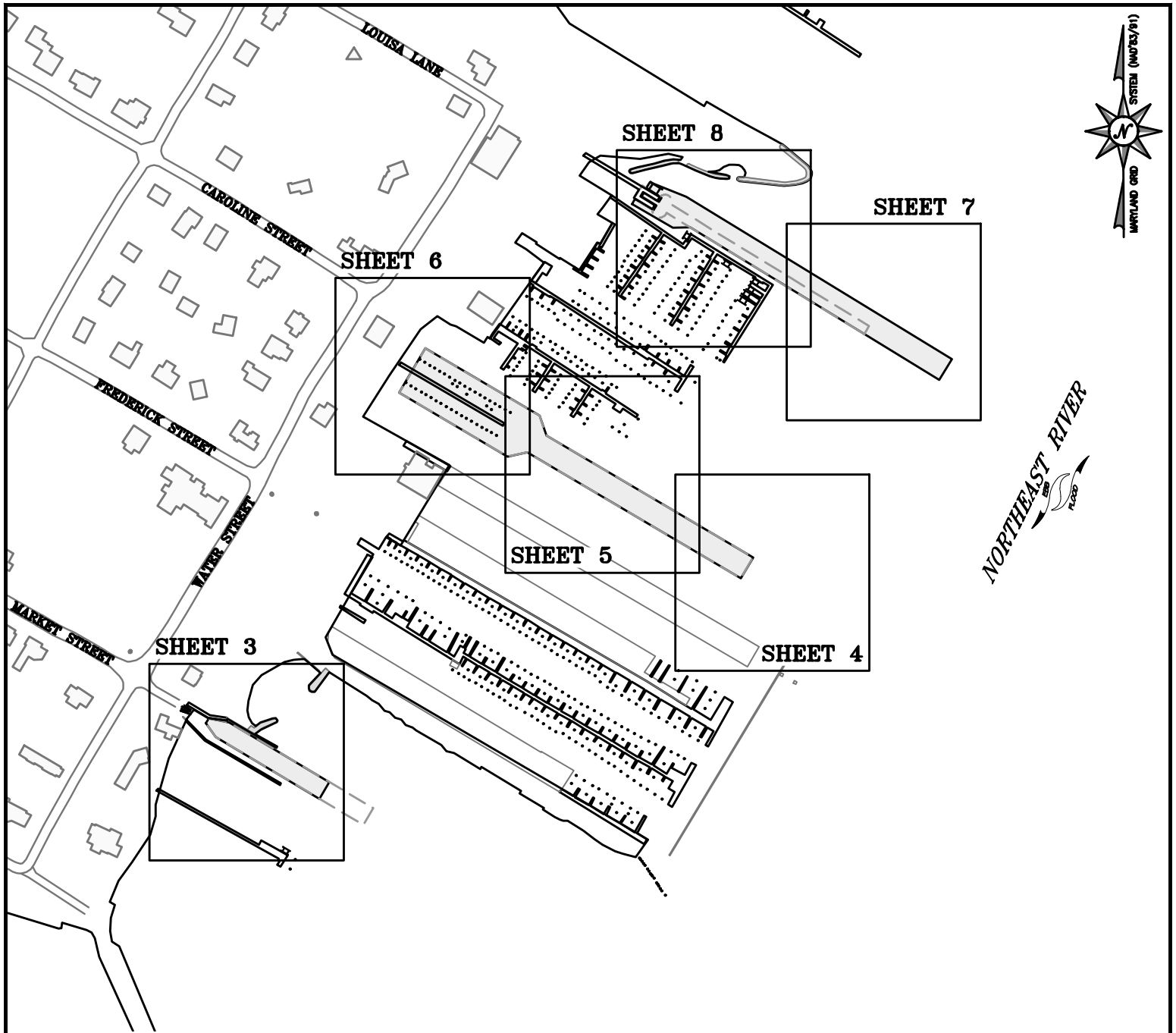
**NOTE:**  
BASEMAP TAKEN FROM CECIL COUNTY 2019  
PLANIMETRICS AND 2022 IMAGERY.



Consultants & Designers, Inc.

"Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

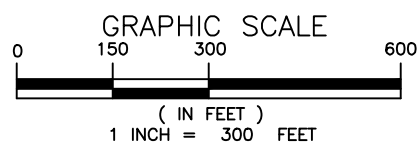


MAINTENANCE DREDGING  
AT  
CHARLESTOWN MARINA  
CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

KEY SHEET

DATE: MAY 2024 SHEET 2 OF 11



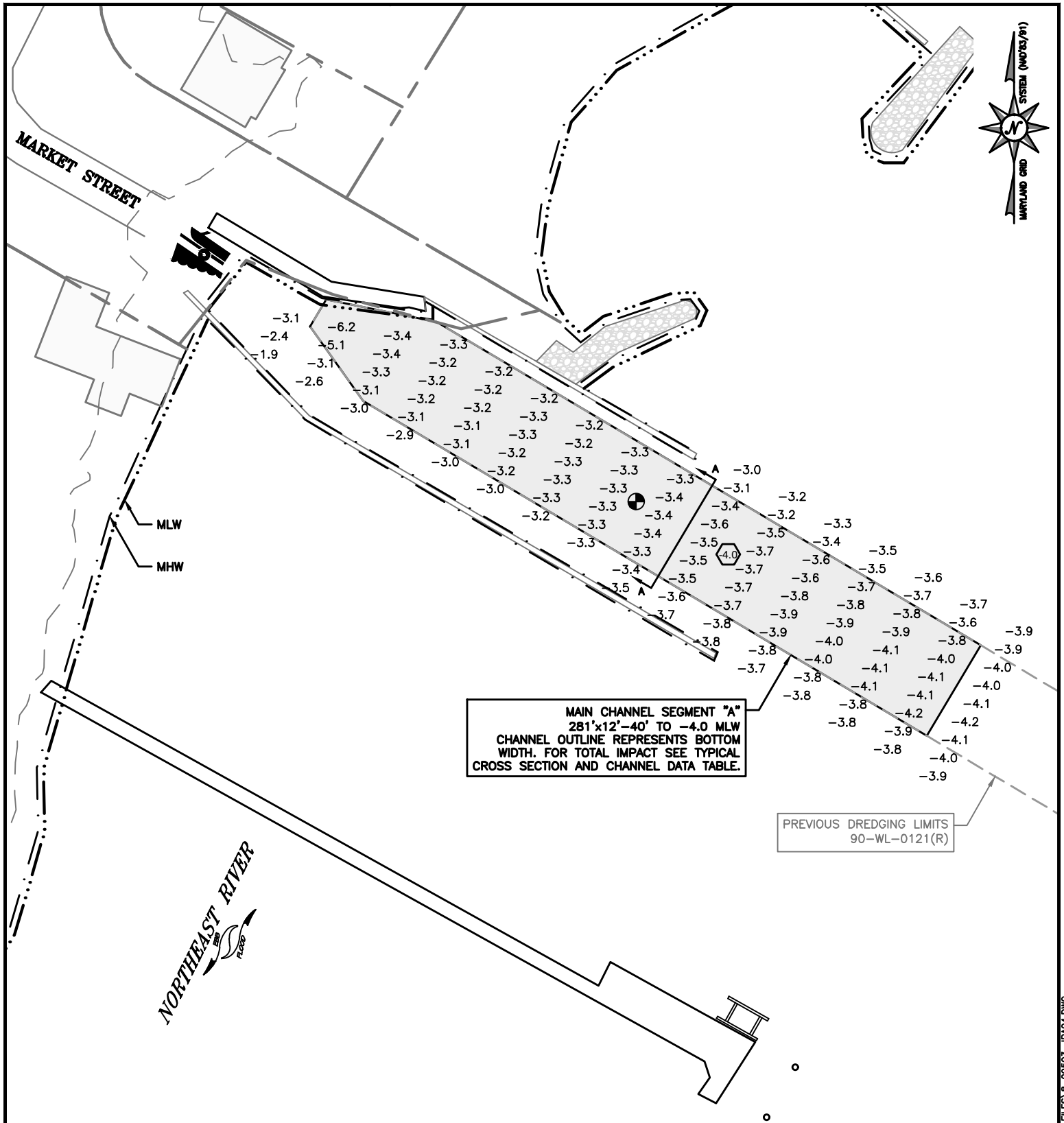
**NOTE:**  
BASEMAP TAKEN FROM CECIL COUNTY 2019  
PLANIMETRICS AND 2022 IMAGERY.



Consultants & Designers, Inc.

"Integrating Engineering and Environment"

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

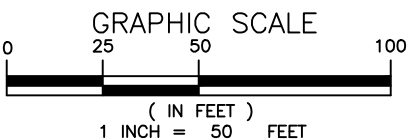


MAINTENANCE DREDGING  
 AT  
 CHARLESTOWN MARINA  
 CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

MAIN CHANNEL PLAN

DATE: MAY 2024 SHEET 3 OF 11



**NOTE:**  
 BASEMAP TAKEN FROM CECIL COUNTY 2019  
 PLANIMETRICS AND 2022 IMAGERY.



**Consultants & Designers, Inc.**  
 "Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401  
 Hanover, Maryland 21076 Fax: (410) 694-9405  
 www.baylandinc.com



NORTHEAST RIVER

MATCHLINE REFER TO SHEET 5

MAIN CHANNEL SEGMENT "B"  
800'x50'-106' TO -4.0 MLW  
CHANNEL OUTLINE REPRESENTS BOTTOM  
WIDTH. FOR TOTAL IMPACT SEE TYPICAL  
CROSS SECTION AND CHANNEL DATA TABLE.

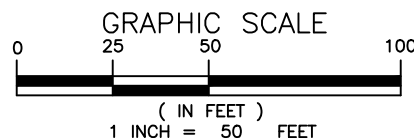
PREVIOUS DREDGING LIMITS  
90-WL-0121(R)

# MAINTENANCE DREDGING AT CHARLESTOWN MARINA CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

## MAIN CHANNEL PLAN

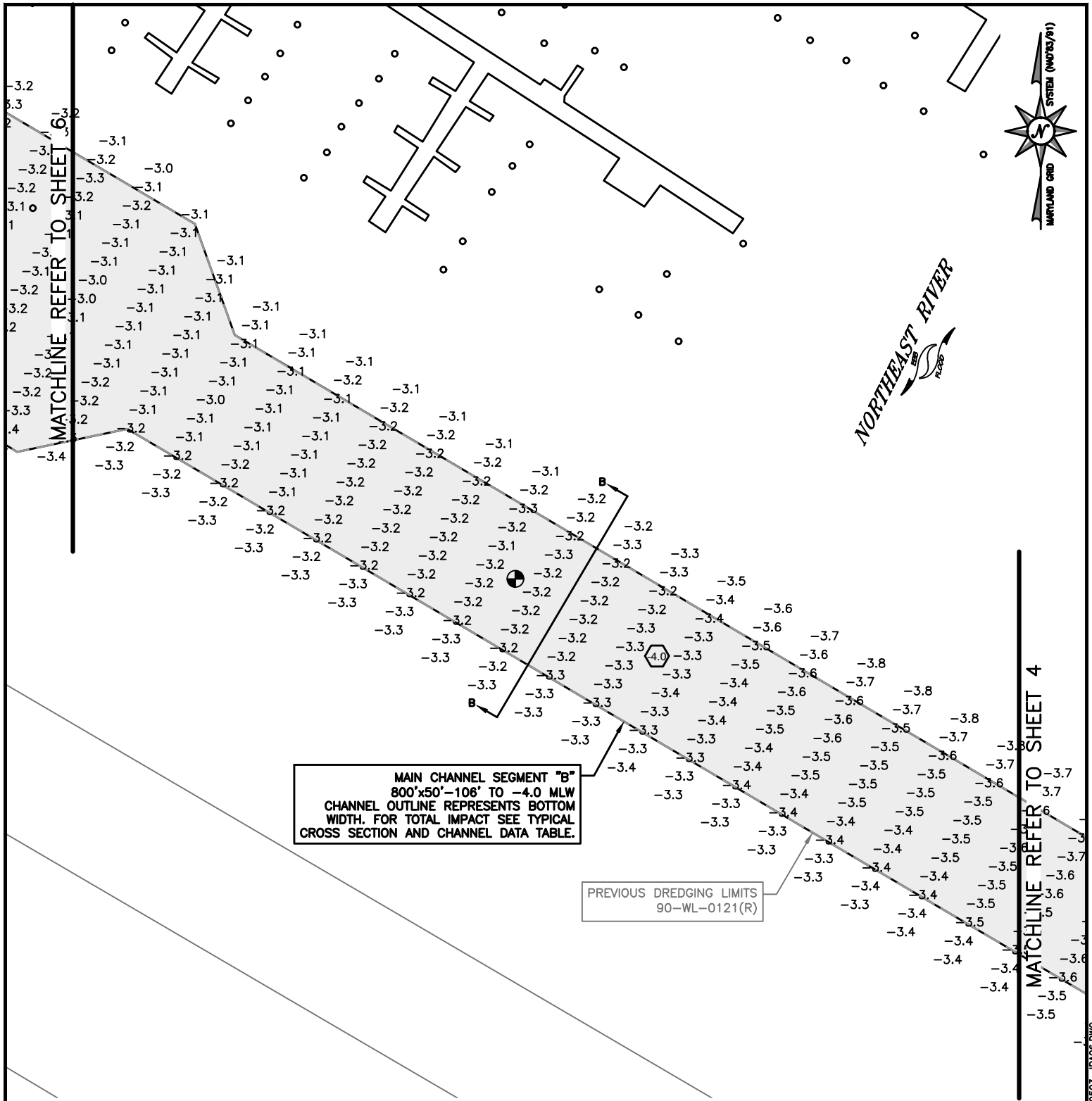
DATE: MAY 2024 SHEET 4 OF 11



NOTE:  
BASEMAP TAKEN FROM CECIL COUNTY 2019  
PLANIMETRICS AND 2022 IMAGERY.



Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com



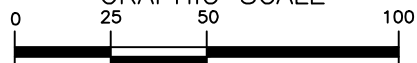
MAINTENANCE DREDGING  
AT  
CHARLESTOWN MARINA  
CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

MAIN CHANNEL PLAN

DATE: MAY 2024 SHEET 5 OF 11

GRAPHIC SCALE



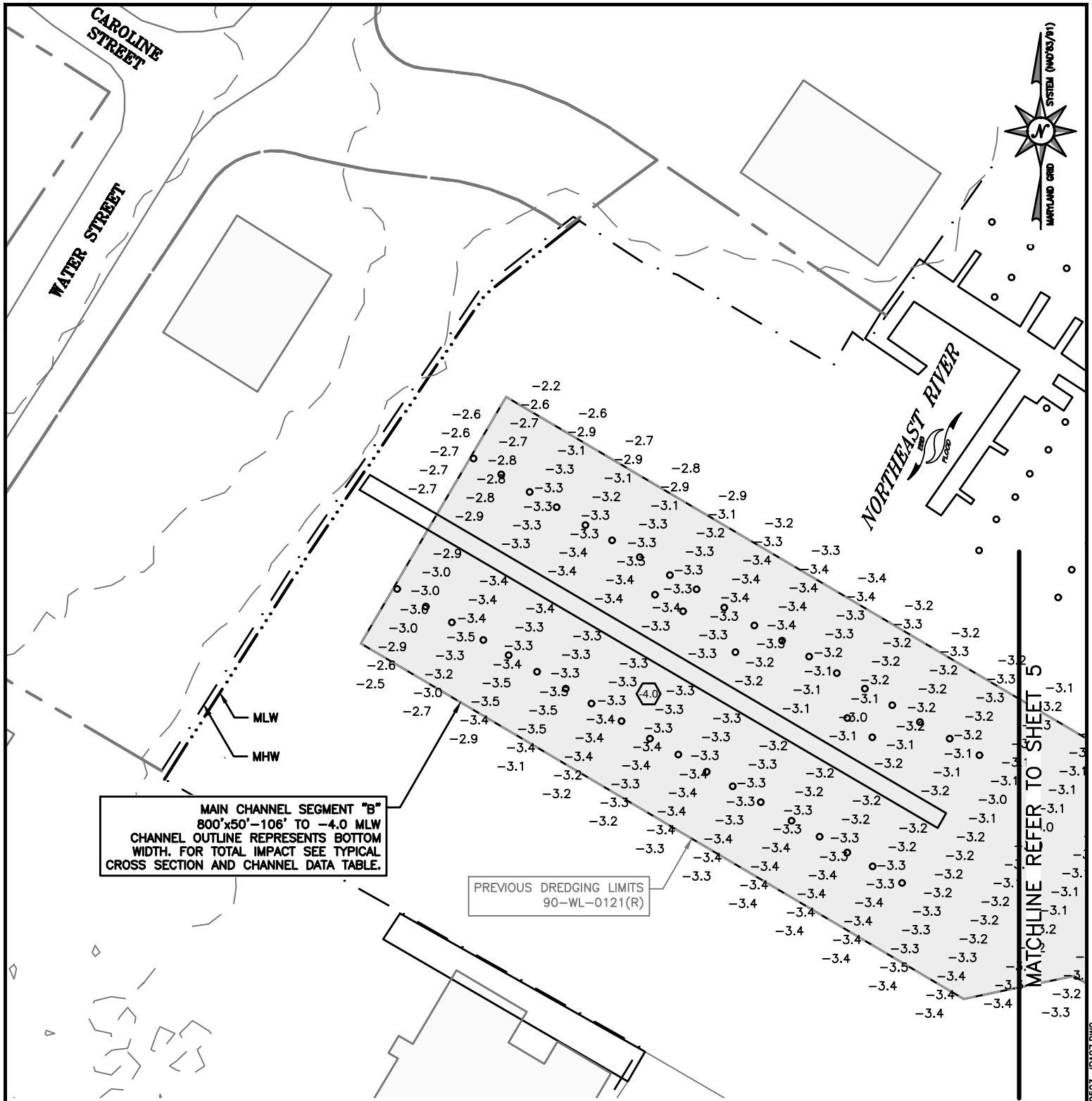
( IN FEET )  
1 INCH = 50 FEET

NOTE:  
BASEMAP TAKEN FROM CECIL COUNTY 2019  
PLANIMETRICS AND 2022 IMAGERY.



Consultants & Designers, Inc.  
"Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com



MAIN CHANNEL SEGMENT "B"  
800'x50'-106' TO -4.0 MLW  
CHANNEL OUTLINE REPRESENTS BOTTOM  
WIDTH. FOR TOTAL IMPACT SEE TYPICAL  
CROSS SECTION AND CHANNEL DATA TABLE.

PREVIOUS DREDGING LIMITS  
90-WL-0121(R)

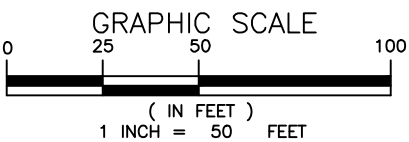
MATCHLINE REFER TO SHEET 5

# MAINTENANCE DREDGING AT CHARLESTOWN MARINA CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

## MAIN CHANNEL PLAN

DATE: MAY 2024 SHEET 6 OF 11



NOTE:  
BASEMAP TAKEN FROM CECIL COUNTY 2019  
PLANIMETRICS AND 2022 IMAGERY.

**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\8\_09503\_CHARLESTOWN\_DREDGING\CAD FILES\SHEET FILES\8\_09503\_JPA07.DWG



NORTHEAST RIVER

MATCHLINE REFER TO SHEET 8

MAIN CHANNEL SEGMENT "C"  
735'x50'-70' TO -5.0 MLW  
CHANNEL OUTLINE REPRESENTS BOTTOM  
WIDTH. FOR TOTAL IMPACT SEE TYPICAL  
CROSS SECTION AND CHANNEL DATA TABLE.

PREVIOUS DREDGING LIMITS  
97-WL-0925(R)

PR. NEW DREDGING  
(26,097 SF TOTAL)



NEW AREAS OF DREDGING

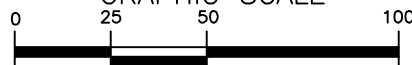
# MAINTENANCE DREDGING AT CHARLESTOWN MARINA CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

## MAIN CHANNEL PLAN

DATE: MAY 2024 SHEET 7 OF 11

GRAPHIC SCALE



( IN FEET )  
1 INCH = 50 FEET

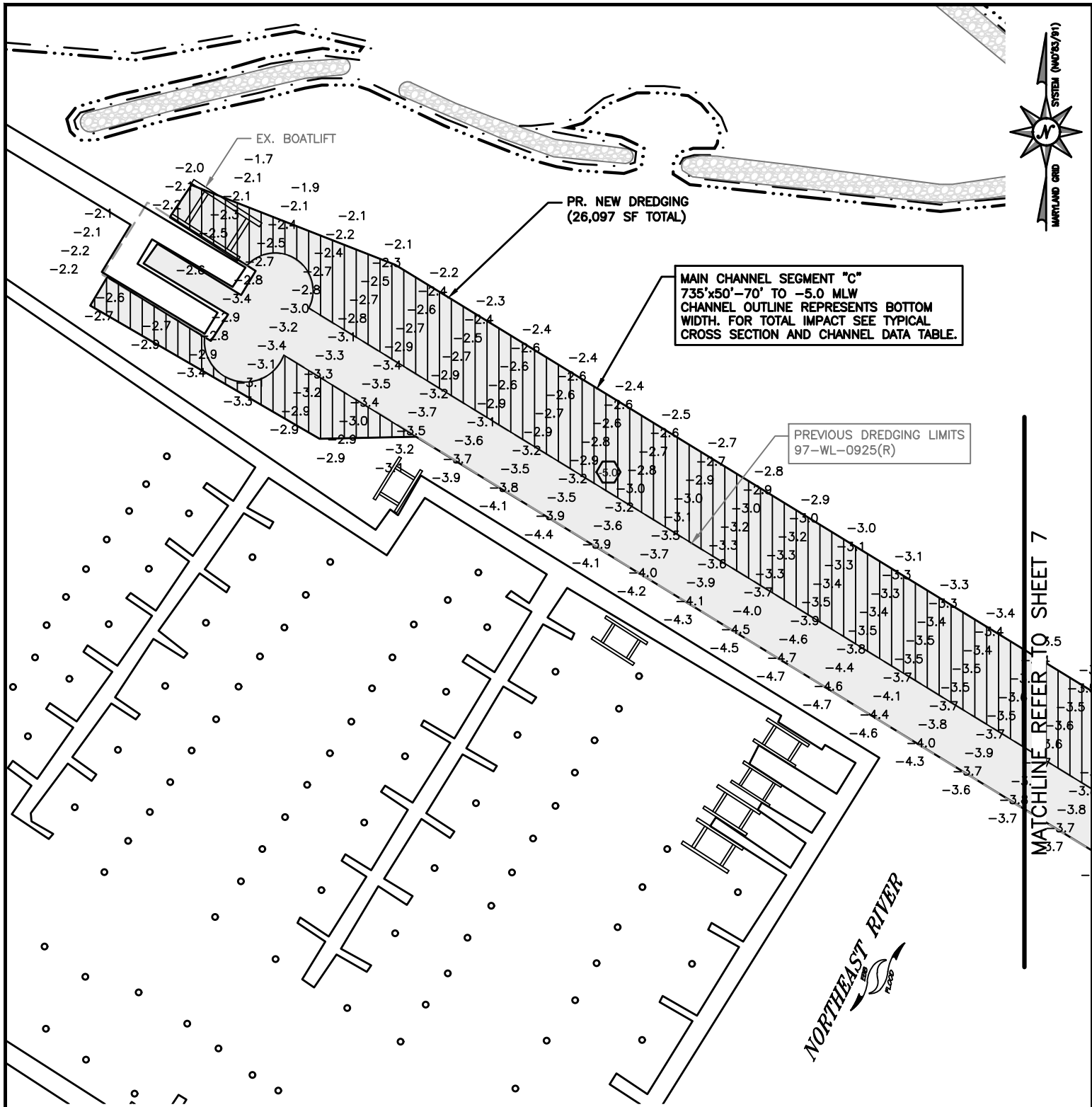
NOTE:  
BASEMAP TAKEN FROM CECIL COUNTY 2019  
PLANIMETRICS AND 2022 IMAGERY.



Consultants & Designers, Inc.  
7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

Z:\8\_09503\_CHARLESTOWN\_DREDGING\CAD FILES\SHEET FILES\8\_09503\_1\PA08.DWG





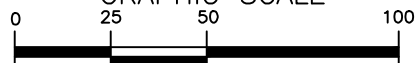
# MAINTENANCE DREDGING AT CHARLESTOWN MARINA CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

## MAIN CHANNEL PLAN

DATE: MAY 2024 SHEET 8 OF 11

GRAPHIC SCALE



( IN FEET )  
1 INCH = 50 FEET

**NOTE:**  
BASEMAP TAKEN FROM CECIL COUNTY 2019  
PLANIMETRICS AND 2022 IMAGERY.

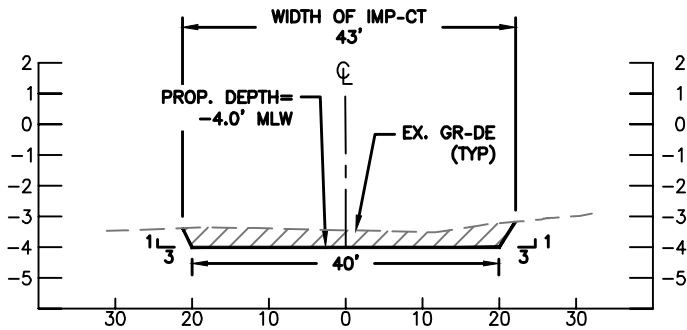


Consultants & Designers, Inc.

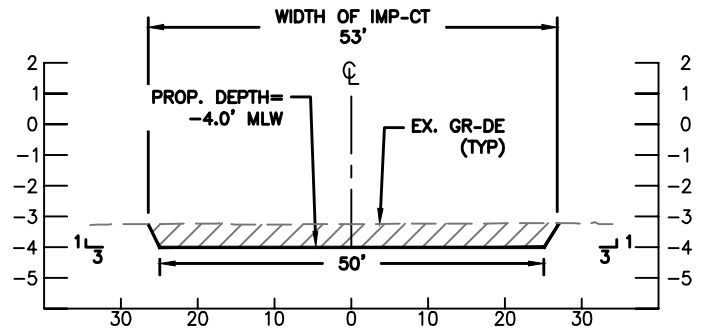
"Integrating Engineering and Environment"

7455 New Ridge Road, Suite 1 Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

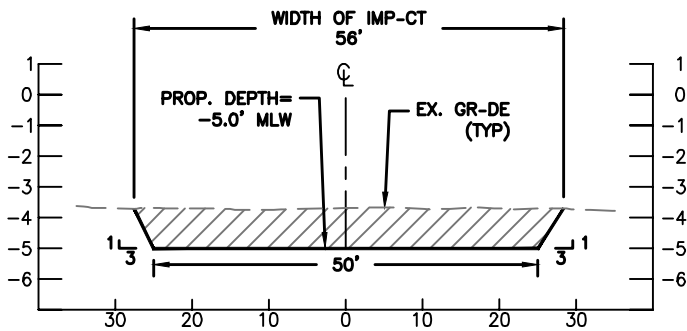




**SECTION A-A**  
SC-LE: NTS



**SECTION B-B**  
SC-LE: NTS



**SECTION C-C**  
SC-LE: NTS

# MAINTENANCE DREDGING AT CHARLESTOWN MARINA CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

## CHANNEL SECTIONS

DATE: MAY 2024 SHEET 9 OF 11



**Consultants & Designers, Inc.**

"Integrating Engineering and Environment"

7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com

CHANNEL DETAILS				
SEGMENT	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	VOLUME (CY)
A	281	12–40	–4.0	196
B	800	50–106	–4.0	1,609
C	735	50–70	–5.0	2,096
TOTAL MAIN CHANNEL LENGTH				1,816 LF
TOTAL MAIN CHANNEL VOLUME				3,901 CY
TOTAL MAIN CHANNEL AREA OF IMPACT				124,100 SF = 2.85 AC
TOTAL MAIN CHANNEL AREA OF IMPACT TO SAV				0 SF = 0.00 AC
TOTAL MAIN CHANNEL AREA OF NEW IMPACTS				26,097 SF = 0.60 AC

**NOTES:**

1. BASEMAP COMPILED FROM CECIL COUNTY 2019 PLANIMETRICS AND 2022 IMAGERY.
2. TIDAL RANGE IS 1.2 FEET.
3. BATHYMETRY FROM BAYLAND SURVEY DATED DECEMBER 29, 2023.
4. SOUNDINGS ARE IN FEET AND REFER TO MLW.
5. THE CHARLESTOWN MARINA CHANNEL PROPOSED FOR MAINTENANCE DREDGING WAS PREVIOUSLY PERMITTED UNDER 90-WL-012(R) AND 97-WL-0925(R).
6. THESE ARE PERMIT DRAWINGS ONLY. DESIGN DRAWINGS WILL BE PREPARED SEPARATELY.
7. 26,097 SF OF NEW DREDGING. 98,003 SF OF MAINTENANCE DREDGING.

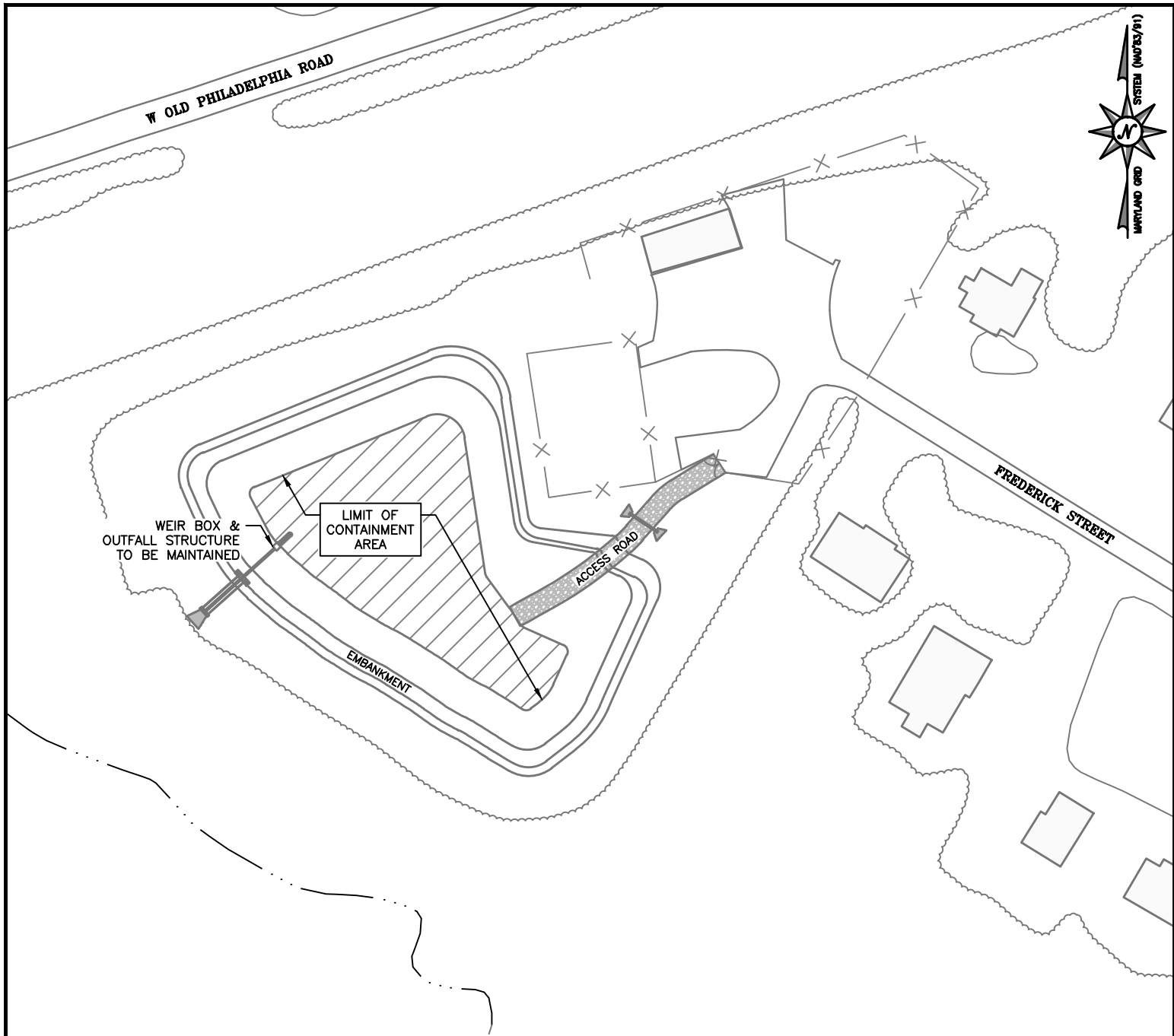
**MAINTENANCE DREDGING  
AT  
CHARLESTOWN MARINA  
CECIL COUNTY**

APPL. BY: TOWN OF CHARLESTOWN

**CHANNEL DETAILS**

DATE: MAY 2024 SHEET 10 OF 11



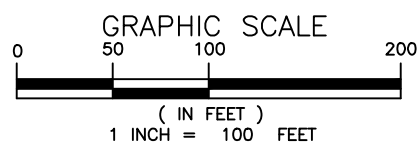


# MAINTENANCE DREDGING AT CHARLESTOWN MARINA CECIL COUNTY

APPL. BY: TOWN OF CHARLESTOWN

CHARLESTOWN DMP SITE

DATE: MAY 2024 SHEET 11 OF 11



**NOTE:**  
BASEMAP TAKEN FROM CECIL COUNTY 2019  
PLANIMETRICS AND 2022 IMAGERY.

**Bayland**  
Consultants & Designers, Inc.  
"Integrating Engineering and Environment"  
7455 New Ridge Road, Suite T Phone: (410) 694-9401  
Hanover, Maryland 21076 Fax: (410) 694-9405  
www.baylandinc.com