



Maryland
Department of
the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor
Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

February 10, 2020

Queen Anne's County Dept of Parks and Recreation
c/o Chris Rager
Bayland Consultants & Designers, Inc
7455 New Ridge Road, Ste T
Hanover, MD 21076

Re: Agency Interest Number: 77450
Tracking Number: 201960687
Tidal Authorization Number: 20-WQC-0008

Dear Sir or Ma'am:

Your project did not qualify for approval under the Maryland State Programmatic General Permit (MDSPGP); therefore a separate review and issuance of the federal permit will be required by the U.S. Army Corps of Engineers. The federal permit is not attached.

Additionally, your project required a Wetlands License to be approved and issued by the Maryland Board of Public Works (BPW). The Wetlands License will be sent to you by the BPW's Wetlands Administrator.

A project that does not qualify for approval under the MDSPGP requires an individual Water Quality Certification (WQC) to be issued by the Maryland Department of the Environment, which is attached. Please take a moment to read and review your WQC to ensure that you understand the limits of the authorized work and all of the general and special conditions.

You should not begin any work until you have obtained all necessary State, local, and federal authorizations. If you have any questions, please do not hesitate to contact Megan Spindler at megan.spindler@maryland.gov or at 410-537-3622.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Stewart".

Jonathan Stewart, Chief
Eastern Region
Tidal Wetlands Division



STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER AND SCIENCE ADMINISTRATION
WATER QUALITY CERTIFICATION



20-WQC-0008

EFFECTIVE DATE: **February 10, 2020**
EXPIRATION DATE: **February 9, 2023**
CERTIFICATION HOLDER: **Queen Anne's County Dept of Parks and
Recreation**
ADDRESS: **1945 4-H Park Rd
Centreville, Maryland 21617**
PROJECT LOCATION: **201 Front St
Centreville, MD 21617
Corsica River in Queen Anne's**

UNDER AUTHORITY OF SECTION 401 OF THE FEDERAL WATER POLLUTION CONTROL ACT AND ITS AMENDMENTS AND IN ACCORDANCE WITH §9-313 THROUGH §9-323, INCLUSIVE, OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND, THE WATER AND SCIENCE ADMINISTRATION ("ADMINISTRATION") HAS DETERMINED THAT THE REGULATED ACTIVITY DESCRIBED IN STATE TIDAL WETLANDS LICENSE NUMBER 19-WL-0460 ("LICENSE") WILL NOT VIOLATE MARYLAND'S WATER QUALITY STANDARDS, IF CONDUCTED IN ACCORDANCE WITH THE CONDITIONS OF THIS CERTIFICATION AND WITH ALL TERMS AND CONDITIONS OF THE LICENSE. A COPY OF THE LICENSE, INCLUDING APPROVED PROJECT DRAWINGS AND OTHER ATTACHMENTS, IS ATTACHED HERETO AND IS HEREBY INCORPORATED BY REFERENCE.

THIS CERTIFICATION DOES NOT RELIEVE THE APPLICANT OF RESPONSIBILITY FOR OBTAINING ANY OTHER APPROVALS, LICENSES, OR PERMITS IN ACCORDANCE WITH FEDERAL, STATE, OR LOCAL REQUIREMENTS AND DOES NOT AUTHORIZE COMMENCEMENT OF THE PROPOSED PROJECT. A COPY OF THIS REQUIRED CERTIFICATION HAS BEEN SENT TO THE CORPS OF ENGINEERS.

THE CERTIFICATION HOLDER SHALL COMPLY WITH THE CONDITIONS LISTED BELOW.

SPECIAL CONDITIONS

- A. The terms and conditions of Tidal Wetlands License No. **19-WL-0460** are hereby incorporated, by reference, into this Water Quality Certification. The Certification Holder shall comply with these conditions to ensure that the authorized activities will not result in a violation of the State's water quality standards.

GENERAL CONDITIONS

- A. The proposed project shall be constructed in a manner which will not violate Maryland's Water Quality Standards as set forth in COMAR 26.08.02. The applicant is to notify this Department ten (10) days prior to commencing work. Verbal notification is to be followed by written notice within ten (10) days.
- B. The Maryland Department of the Environment has determined that the proposed activities comply with, and will be conducted in a manner consistent with the State's Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended.
- C. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by e-mail at MDE.MCLB@maryland.gov or by accessing the Maryland Department of the Environment, Environmental Boards webpage.
- D. The Certification Holder shall ensure the proposed project shall be constructed in accordance with the authorized plan and any authorized revisions.
- E. The Certification Holder shall ensure that all fill and construction materials not used in the project shall be removed and disposed of in a manner which will prevent their entry into waters of this State.
- F. The Certification Holder shall notify the Water and Science Administration, Tidal Wetlands Division, in writing, upon transferring property ownership or responsibility for compliance with these conditions to another person. The new owner/operator shall request, in writing, transfer of this Water Quality Certification to his/her name.
- G. The Certification Holder shall allow representatives of the Maryland Department of the Environment to inspect the authorized activities.
- H. The Certification Holder shall ensure that a copy of this Permit, including the approved plans, is available at the site until the authorized work is complete.
- I. The Certification does not relieve the Certification holder from the responsibility of obtaining all necessary federal, State, and local government authorizations.
- J. The Certification Holder shall comply with all Critical Area requirements and obtain all necessary authorizations from local jurisdiction. This Certification does not constitute authorization for disturbance in the 100-foot Critical Area Buffer. "Disturbance" in the Buffer means clearing, grading, construction activities, or removal of any size of tree or vegetation. Any anticipated Buffer disturbance requires prior written approval, before commencement of land disturbing activity, from local jurisdiction in the form of a Buffer Management Plan.

Failure to comply with these conditions shall constitute reason for suspension or revocation of the Water Quality Certification, and legal proceedings may be instituted against the Certification Holder in accordance with the Annotated Code of Maryland. In granting this certification, the Department reserves the right to inspect the operations and records regarding this project at anytime

CERTIFICATION APPROVED



D. Lee Currey, Director
Water and Science Administration

Feb 13, 2020

Date

Tracking Number: 201960687
Agency Interest Number: 77450

Effective Date: February 10, 2020

Enclosure: Executed Tidal Wetlands License No. **19-WL-0460** with all plans and attachments.

cc: WMA Inspection & Compliance Program

ONG. REC'D 1/16/2020



To:

State of Maryland
Board of Public Works

Wetlands Administration
Post Office Box 1510
Annapolis, Maryland 21404
410-260-7791
Fax: 410-974-5240
Toll Free: 1-877-591-7320

State of Maryland
RECEIVED
JAN 23 2020

Larry Hogan
Governor
Nancy K. Kopp
Treasurer
Peter Franchot
Comptroller
Sheila C. McDonald
Executive Secretary

William Morgante, PWS
Wetlands Administrator

Board of Public Works
Wetlands Administration

January 8, 2020

REPLY: JANUARY 17, 2020

FROM: Queen Anne's Co. DP&R
c/o BayLand
7455 New Ridge Road, Suite T
Hanover, MD 21076

1945 4th PARK ROAD
CROSSVILLE, MD 21617

RE: Wetlands License No. 19-0460, Corsica River, QA Co., MD

Dear Licensee(s):

Enclosed please find the original and one copy of the above-mentioned wetlands license issued to you on December 18, 2019.

After you have read all the conditions of the license, please ensure that the license is signed by the licensee (or designee) and the entire original license (including plans) is returned to this office within 15 business days in the enclosed envelope. The Executive Secretary signs and validates the license after BPW receives the license signed by the licensee. Retain the copy of the license for your records.

Please note that you must notify the MD Department of the Environment, Inspections and Compliance Program, by calling (410) 537-3510 in Baltimore, or (410) 901-4020 in Cambridge, five days prior to commencing work.

This does not constitute your federal authorization. Contact the U.S. Army Corps of Engineers, Baltimore District, (410) 962-4500 (Maryland Section Southern) or (410) 962-4252 (Maryland Section Northern) regarding the status of the federal permit.

If you have any questions concerning this license, please contact me.

Sincerely,

William Morgante
Wetlands Administrator

To: _____>

Enclosure

cc: MDE, Tidal Wetlands Division

SIGNED
1/17/2020



William Morgante, PWS
Wetlands Administrator

State of Maryland
Board of Public Works

Wetlands Administration
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Annapolis, Maryland 21404
410-260-7791
Fax: 410-974-5240
Toll Free: 1-877-591-7320

State of Maryland
RECEIVED
JAN 23 2020

Board of Public Works
Wetlands Administration
Larry Hogan
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Comptroller
Sheila C. McDonald
Executive Secretary

WETLANDS LICENSE NO. 19-0460

**QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS AND RECREATION**

The Maryland Board of Public Works authorizes you to:

- I. Mechanically or hydraulically maintenance dredge a 5,243-foot long by 50 to 106-foot wide channel to a depth of -5.0 feet at mean low water (MLW).
- II. Mechanically or hydraulically dredge a 155-foot long by 178-foot wide area of new dredging to a depth of -3.0 feet at MLW.
- III. Deposit approximately 21,217 cubic yards of material at an approved upland disposal site located at 421 Watson Road, Centreville, Maryland.
- IV. Provide for periodic maintenance dredging for six years.
- V. Collect four sediment cores at a depth of -6.0 feet at MLW.

Corsica River, Centreville, Queen Anne's County, Maryland

Issuance of this Tidal Wetlands License constitutes the State's determination that the authorized activities are consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the Federal Coastal Zone Management Act of 1972, as amended [16 U.S.C. §1456]. Accordingly, the State concurs with the Licensee's certification in the Joint Permit Application that the project complies with, and will be conducted in a manner consistent with the Maryland CZMP.

THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF YOU COMPLY WITH THE FOLLOWING SPECIAL CONDITION(S):

- A. To minimize impacts to spawning anadromous and resident fish species, no dredging, regardless of method, shall be conducted from February 15 through June 15 of any year.
- B. Licensee shall conduct subsequent maintenance dredging within the scope of this license in terms of authorized dredge area and authorized depths. Licensee shall:
 - a. Dredge no more than 500 cubic yards of material at each maintenance dredging.
 - b. Comply with all applicable conditions of this license.
 - c. Submit a detailed dredged material disposal plan to be approved by Maryland Department of the Environment's (MDE) Water and Science Administration, Tidal Wetlands Division, prior to the start of dredging.

- d. Notify and receive approval from MDE's Water and Science Administration, Compliance Program, a minimum of 10 days prior to the start of each maintenance dredging operation.
- C. Licensee shall stake the dredge area and receive approval from MDE's Water and Science Administration's Compliance Division prior to the start of dredging.
- D. Licensee shall conduct a post dredge bathymetric survey and forward to MDE's Water and Science Administration, Tidal Wetlands Division, within 45 days after the termination of any phase of dredging.
- E. Before work begins, Licensee must have an MDE-approved Dredge Material Disposal Plan.
- F. Licensee may dispose of dredged material only at an MDE-approved dredge disposal site.

MECHANICAL DREDGING SPECIAL CONDITIONS:

- G. Licensee shall transport all dredged material in watertight trucks. No dredged material shall be discharged onto the roadways of the State.
- H. After initial maintenance dredging, Licensee may perform subsequent maintenance dredging that adheres to the same standards as the initial maintenance dredging.
- I. Licensee may not dredge more than 500 cubic yards of material during any subsequent maintenance dredging operation.

HYDRAULIC DREDGING SPECIAL CONDITIONS:

- J. If hydraulic dredging is performed, the dredged material placement site (DMP) shall be constructed to limit turbidity in the discharge to waters of the State. A turbidity sample of the discharge water shall be performed every hour of active pumping to the DMP or when there is an observed change in the clarity of the water. Turbidity in the discharge may not exceed 150 units at any time or 50 units as a monthly average. Units shall be measured in Nephelometer Turbidity Units. A logbook of all turbidity monitoring shall be kept on site. The dredger shall have a person at the discharge point of the DMP in constant radio communication. If a problem is incurred, the dredging operation shall be immediately shutdown until the reason for the problem can be ascertained and rectified.
- K. The dredge operator shall have a person at the discharge point of the DMP in constant radio communication. If a problem is incurred, the dredging operation shall be immediately shut down until the reason for the problem can be ascertained and rectified. MDE compliance shall be notified.

THIS LICENSE AUTHORIZES YOU TO PERFORM THE WORK ONLY IF YOU COMPLY WITH THE FOLLOWING STANDARD CONDITIONS:

1. Licensee shall conduct the authorized work in accordance with the plans and drawings dated November 2019, which are hereby incorporated into this License. Until the authorized work is complete, Licensee shall have available at the site a copy of this License including the plans and drawings.
2. This License constitutes Maryland's authorization to conduct the authorized work under the State Tidal Wetlands Law. This License does not bestow any other federal, State, or local government authorization.

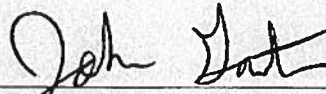
3. Licensee shall have all proposed work above Mean High Water reviewed and authorized by the local county Department of Planning and Zoning or applicable agency.
4. Licensee shall notify MDE's Inspection and Compliance Program by phone (410-537-3510) AND in writing (MDE, Inspection and Compliance Program, 1800 Washington Boulevard, Baltimore, MD 21230) of the following:
 - start date at least five business days before beginning work; and
 - completion date no more than five business days after project completion.
5. If MDE has issued a Water Quality Certification with respect to the authorized work, Licensee shall comply with all conditions of that certification.
6. Licensee shall conduct the authorized work in accordance with Critical Area Commission requirements. This License does not authorize disturbance in the Buffer. If authorized work will disturb the Buffer, Licensee shall have a Commission-approved or locally-approved Buffer Management Plan before beginning the authorized work.

"Buffer" means the 100-foot Critical Area Buffer and any expanded area that is immediately landward of the mean high water line of the tidal waters or is immediately landward of tidal wetlands. The Buffer includes expanded contiguous area if the contiguous area includes steep slopes, hydric soil, or highly erodible soil, or otherwise meets the criteria of COMAR 27.01.09.01.E(7). "Disturbance" means any alteration or change to the land including any amount of clearing. Clearing includes vegetation removal, grading, and construction activity.
7. Licensee may not fill, dredge, or otherwise alter or destroy tidal marsh or its vegetation unless this License specifically authorizes the activity.
8. Licensee may not stockpile material in State tidal wetlands or State tidal waters of the U.S.
9. Licensee shall allow unfettered public use of State wetlands and State tidal waters of the U.S.
10. This License does not transfer a property interest of the State.
11. Licensee shall file a Miss Utility ticket for the proposed work at least 10 days before beginning work. *Miss Utility: 800-257-7777*
12. Licensee shall ensure that structures (for example, piers and piles) removed from the site are taken to an upland disposal facility approved by MDE's Inspection and Compliance Program.
13. If the authorized work impacts more than 5,000 square feet or includes 100 or more cubic yards of fill, Licensee shall conduct the authorized work in accordance with a locally-approved Soil Erosion and Sediment Control Plan.
14. If the authorized work is not performed by the property owner, all work performed under this Tidal Wetlands License shall be conducted by a marine contractor licensed by the Marine Contractors Licensing Board (MCLB) in accordance with Title 17 of the Environment Article of Annotated Code of Maryland. A list of licensed marine contractors may be obtained by contacting the MCLB at 410-537-3249, by email at MDE.MCLB@maryland.gov or by accessing the *Maryland Department of the Environment, Environmental Boards webpage*.
15. Licensee shall allow State officials and employees to make inspections at reasonable times and cooperate with those inspections.
16. This License is granted only to the Licensee. Licensee may transfer the license only with written approval from the Board of Public Works. If the Board of Public Works approves the transfer, the transferee is subject to all License terms and conditions.

- 17. Licensee shall indemnify, defend, and save harmless the State of Maryland, its officials, officers, and employees from and against any and all liability, suits, claims, and actions of whatever kind, caused by or arising from, the work this License authorizes.
- 18. The Board of Public Works or its Wetlands Administrator may modify, suspend, or revoke this License in its reasonable discretion.
- 19. This License expires January 8, 2023. If the authorized work is not completed by the expiration date, all activity must stop.

NOTE: A three-year license may be renewed for one additional three-year term if the Licensee requests an extension before the expiration date and all other conditions are met. A six-year license may not be renewed; instead Licensee must reapply to MDE for a new license. Contact the Board of Public Works to determine if this License may be extended.
 Board of Public Works: 410-260-7791

By the authority of the Board of Public Works:

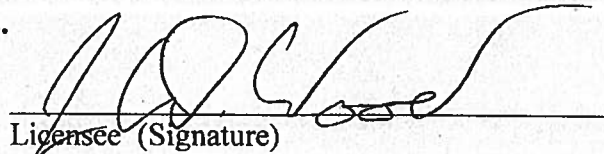


John T. Gontrum
Executive Secretary

Effective Date: January 8, 2020
 Approved as: Secretary's Agenda Item 3
 Board of Public Works Meeting Date: January 8, 2020

I accept this License and all its conditions.

January 17, 2020
Date

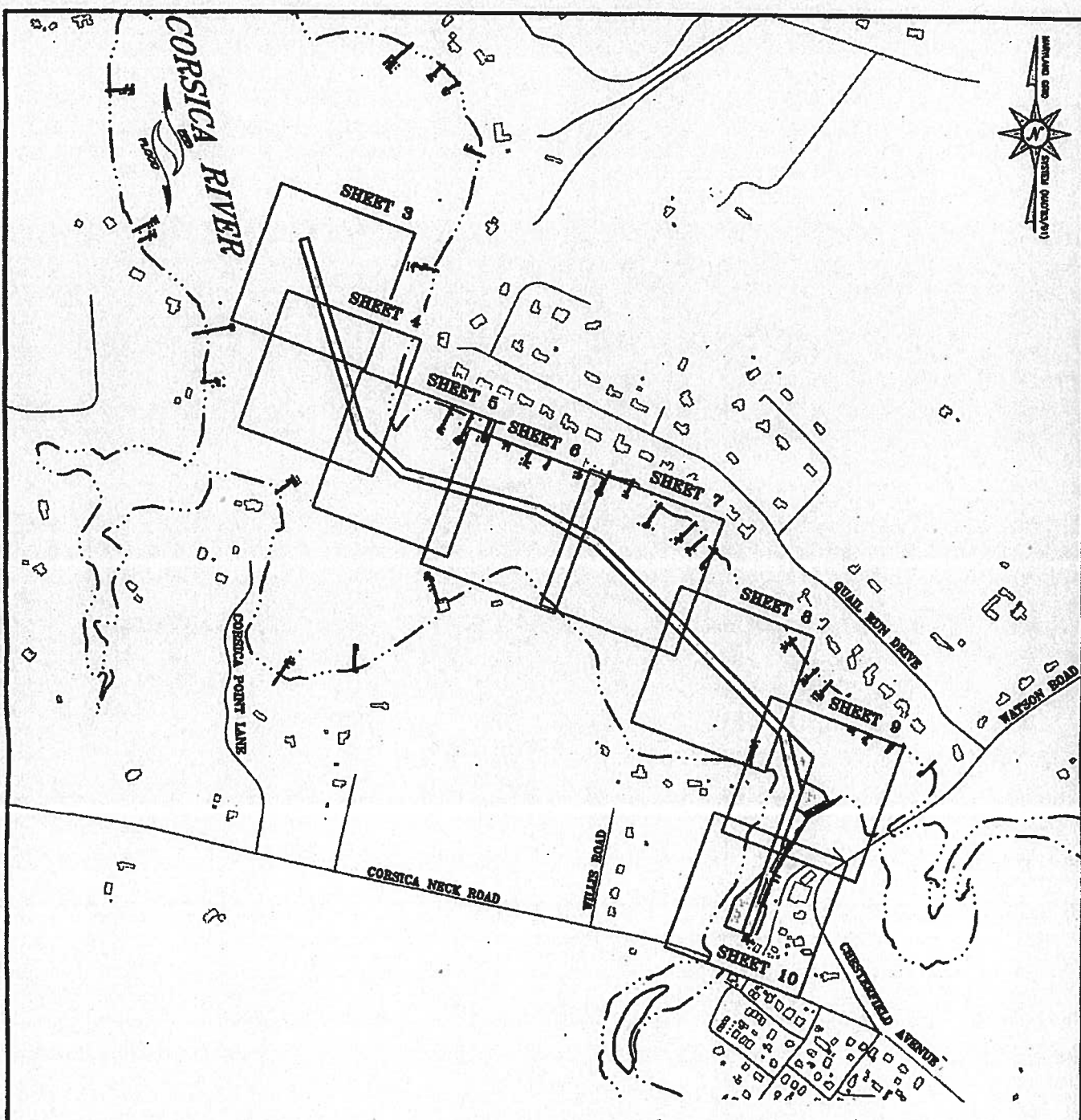

Licensee (Signature)

JAMES D. WOOD
Name (Printed)

PUBLIC LANDINGS SUPERVISOR
Title

jwood@qac.org
Email (To receive completed license.)

State of Maryland
RECEIVED
JAN 23 2020
 Board of Public Works
 Wetlands Administration



**CORSICA RIVER
MAINTENANCE DREDGING**

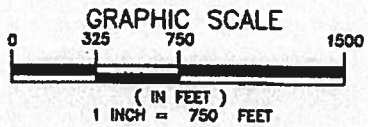
QUEEN ANNE'S COUNTY, MD

**APPL. BY: QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS**


KEY SHEET

DATE: NOVEMBER 2019 SHEET 2 OF 13

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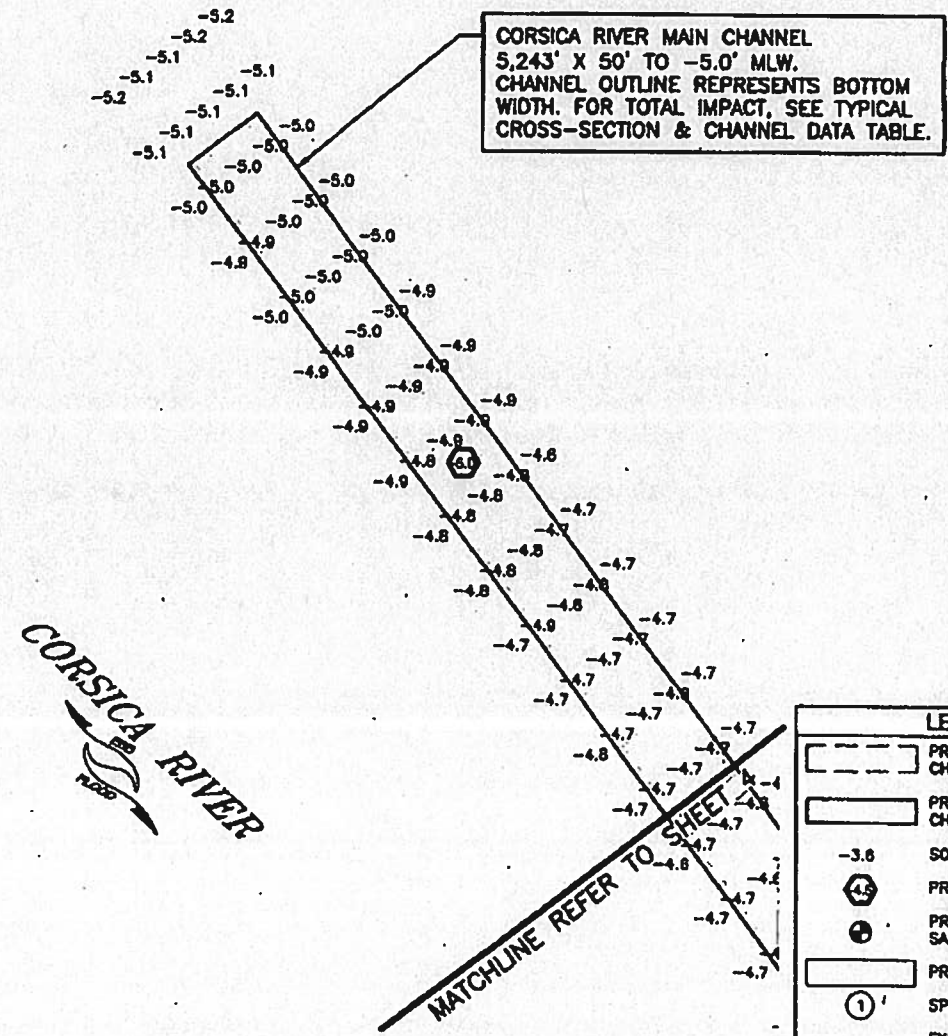


NOTE:
BASEMAP TAKEN FROM QUEEN ANNE'S COUNTY
2016 PLANIMETRICS AND 2016 IMAGERY.



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

1435 New Ridge Road, Suite 2 Phone: (410) 864-0811
Baltimore, Maryland 21278 Fax: (410) 864-0807
www.bayindia.com



CORSICA RIVER

 1789

LEGEND	
	PREVIOUSLY DREGGED CHANNEL
	PROPOSED COUNTY CHANNEL
-3.6	SOUNDINGS
	PROPOSED CHANNEL DEPTH
	PROPOSED SEDIMENT SAMPLE LOCATION
	PROPOSED SPUR CHANNEL
①	SPUR NUMBER
	EXISTING MHW
	EXISTING MLW
	APPROX. PROPERTY LINES
	COMMUNITY BOAT RAMP
	EXISTING BOAT LIFT
○	EXISTING PILING
●	PROPOSED PILING
	PROPOSED PIER

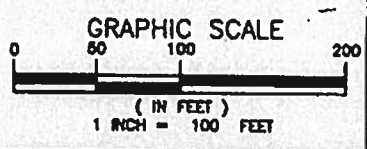
**CORSICA RIVER
 MAINTENANCE DREDGING
 QUEEN ANNE'S COUNTY, MD**

19-WL-0460
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 11/5/19

APPL BY: QUEEN ANNE'S COUNTY
 DEPARTMENT OF PARKS

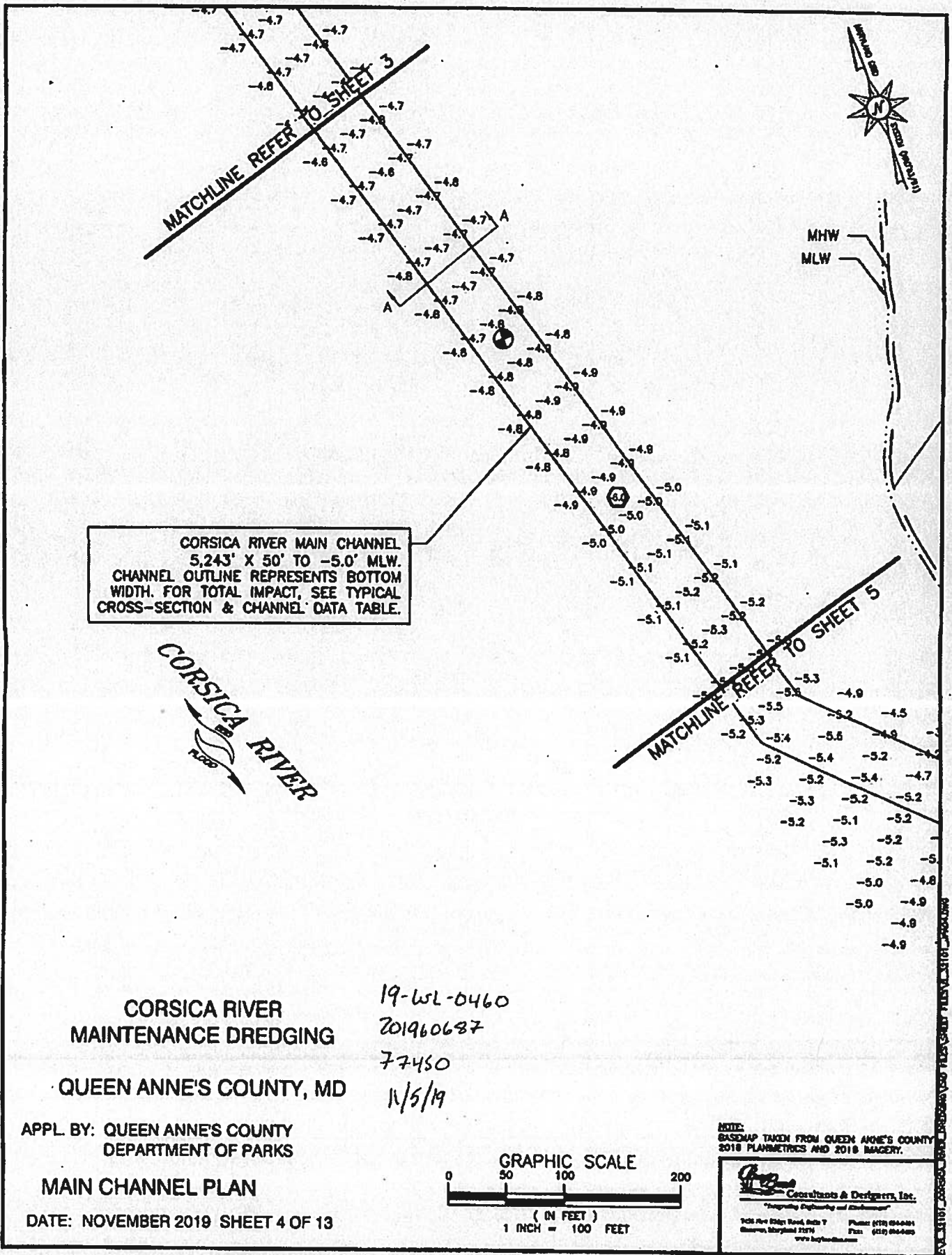
MAIN CHANNEL PLAN

DATE: NOVEMBER 2019 SHEET 3 OF 13



NOTE:
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Consultants & Designers, Inc.
 "Integrating Engineering and Environment"
 3420 Pine Ridge Road, Suite 7 P.O. Box 10701
 Gaithersburg, Maryland 20878 Phone: (301) 944-4401
 Fax: (301) 944-4402
 www.bcdm.com



CORSICA RIVER MAIN CHANNEL
 5,243' X 50' TO -5.0' MLW.
 CHANNEL OUTLINE REPRESENTS BOTTOM
 WIDTH. FOR TOTAL IMPACT, SEE TYPICAL
 CROSS-SECTION & CHANNEL DATA TABLE.

CORSICA RIVER

**CORSICA RIVER
 MAINTENANCE DREDGING**

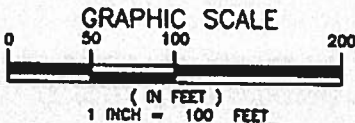
QUEEN ANNE'S COUNTY, MD

APPL BY: QUEEN ANNE'S COUNTY
 DEPARTMENT OF PARKS

MAIN CHANNEL PLAN

DATE: NOVEMBER 2019 SHEET 4 OF 13

19-WL-0460
 201960687
 77450
 11/5/19



NOTE:
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 2018 PLANIMETRICS AND 2019 IMAGERY.

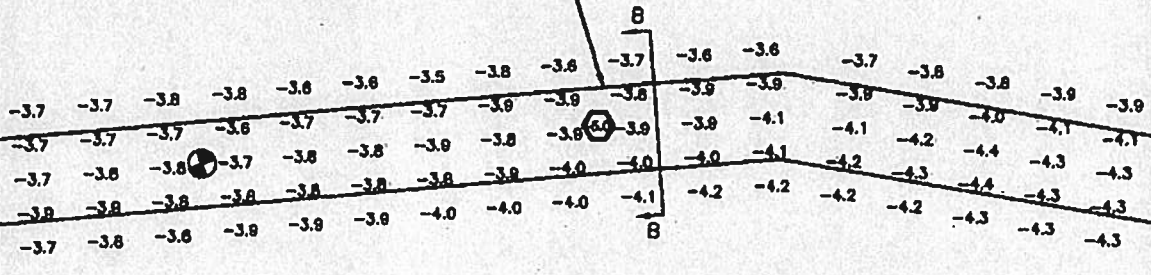
Consultants & Designers, Inc.
"Integrating Engineering and Architecture"
 1428 New Edge Road, Suite 7 P.O. Box 611244
 Gaithersburg, Maryland 20878 Phone: (301) 944-4411
 Fax: (301) 944-4400
 www.bcdesign.com

MATCHLINE REFER TO SHEET 5

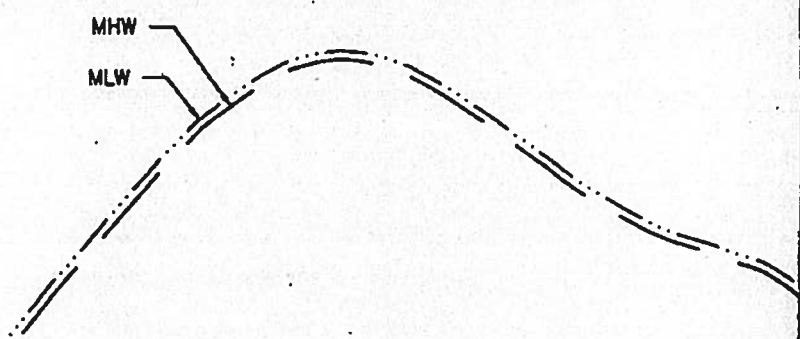
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MATCHLINE REFER TO SHEET 7



CORSICA RIVER



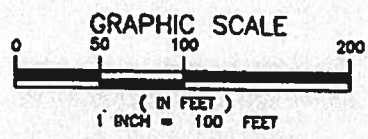
CORSICA RIVER
MAINTENANCE DREDGING
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11/5/19

APPL. BY: QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS

MAIN CHANNEL PLAN

DATE: NOVEMBER 2019 SHEET 6 OF 13

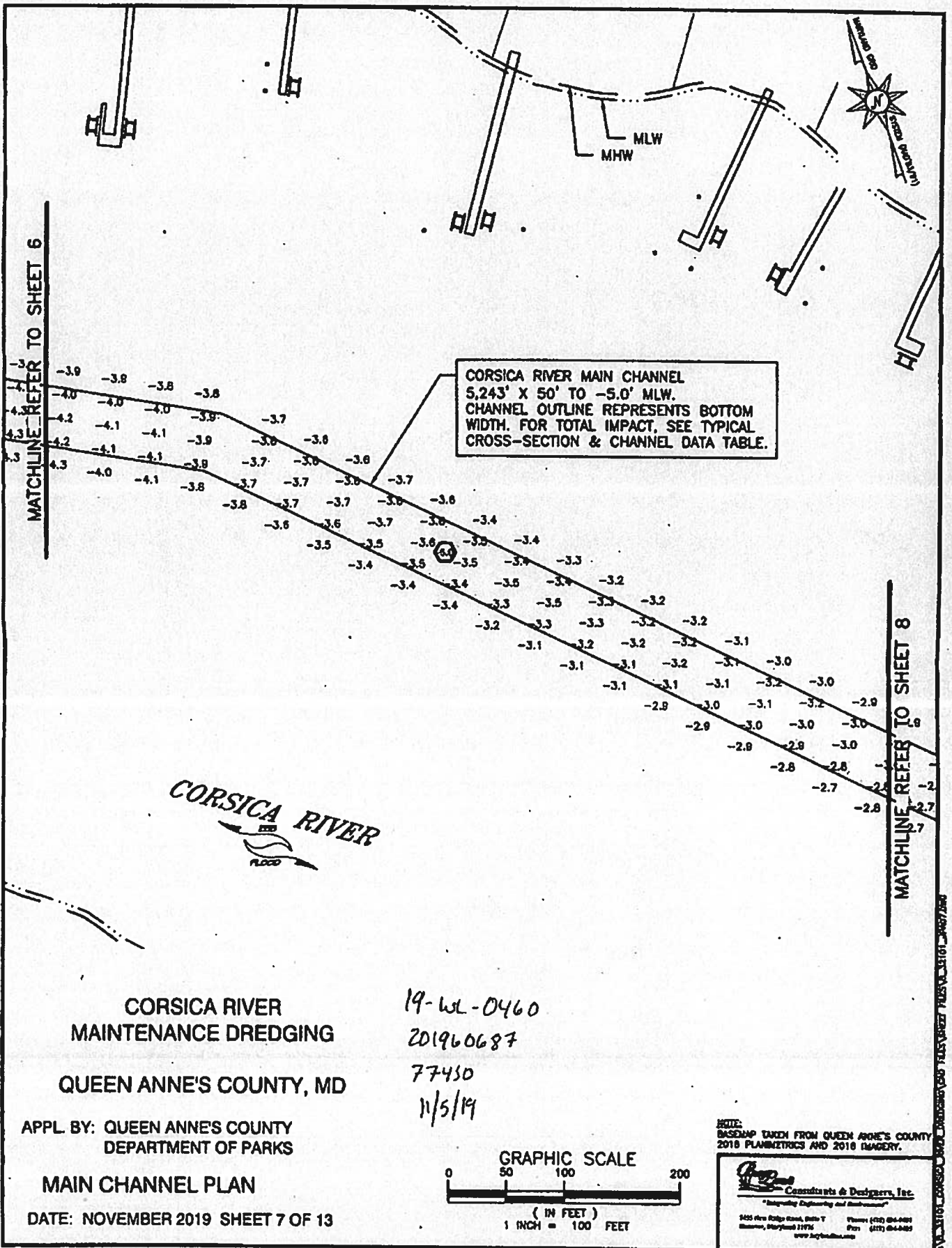


NOTE:
BASEMAP TAKEN FROM QUEEN ANNE'S COUNTY
2016 PLANGMETRICS AND 2016 DANGRY.

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

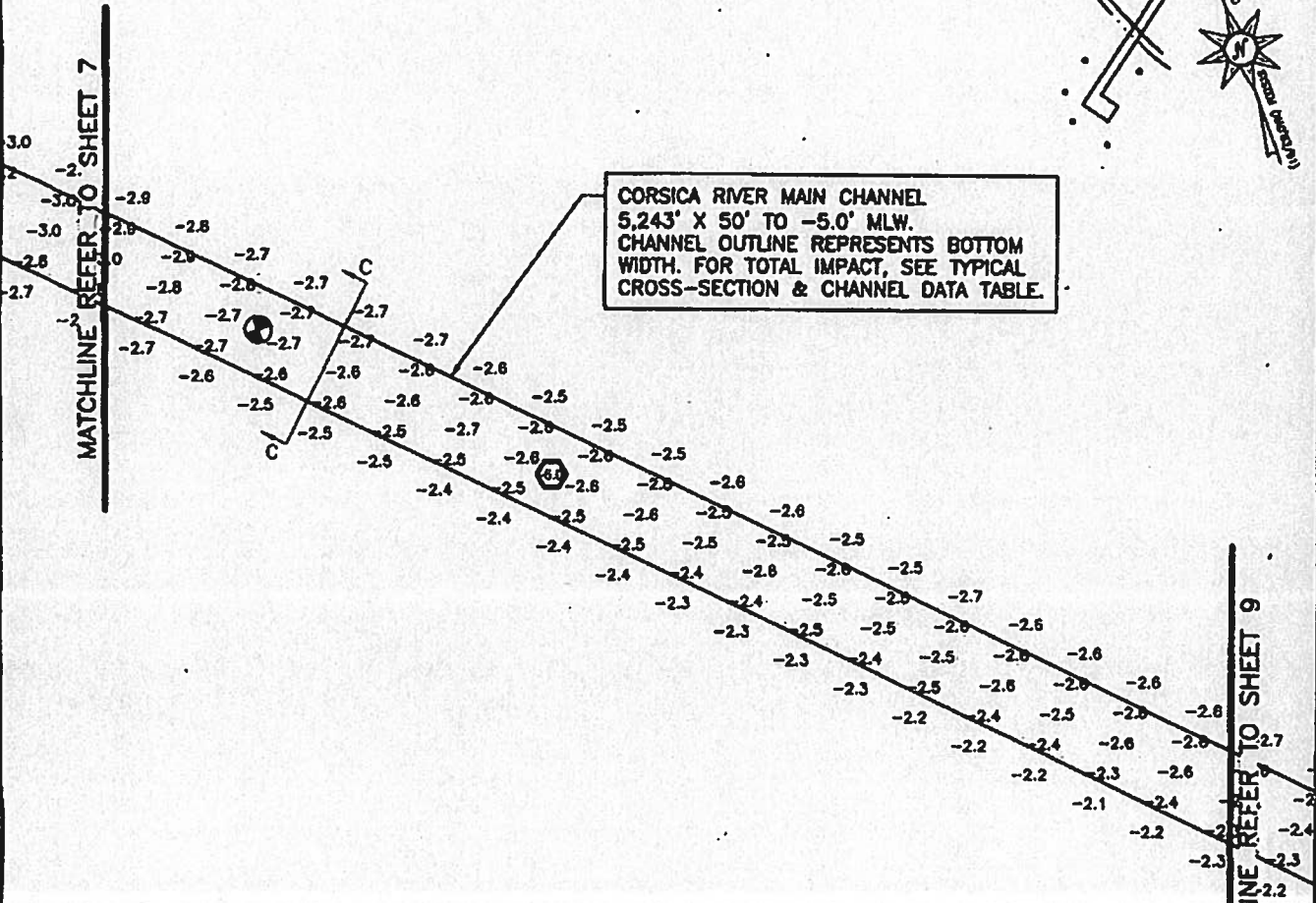
1400 New Edge Road, Suite 7
Pawcatuck, Maryland 21770
www.hydroinc.com

Phone: (301) 814-0071
Fax: (301) 814-0070

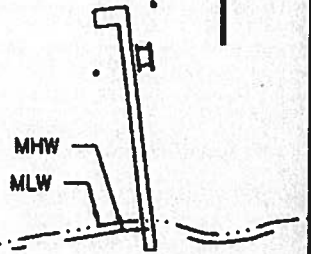




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CORSICA RIVER



**CORSICA RIVER
 MAINTENANCE DREDGING**

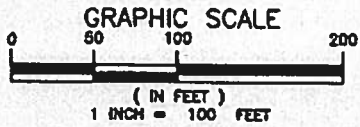
QUEEN ANNE'S COUNTY, MD

**APPL. BY: QUEEN ANNE'S COUNTY
 DEPARTMENT OF PARKS**

MAIN CHANNEL PLAN

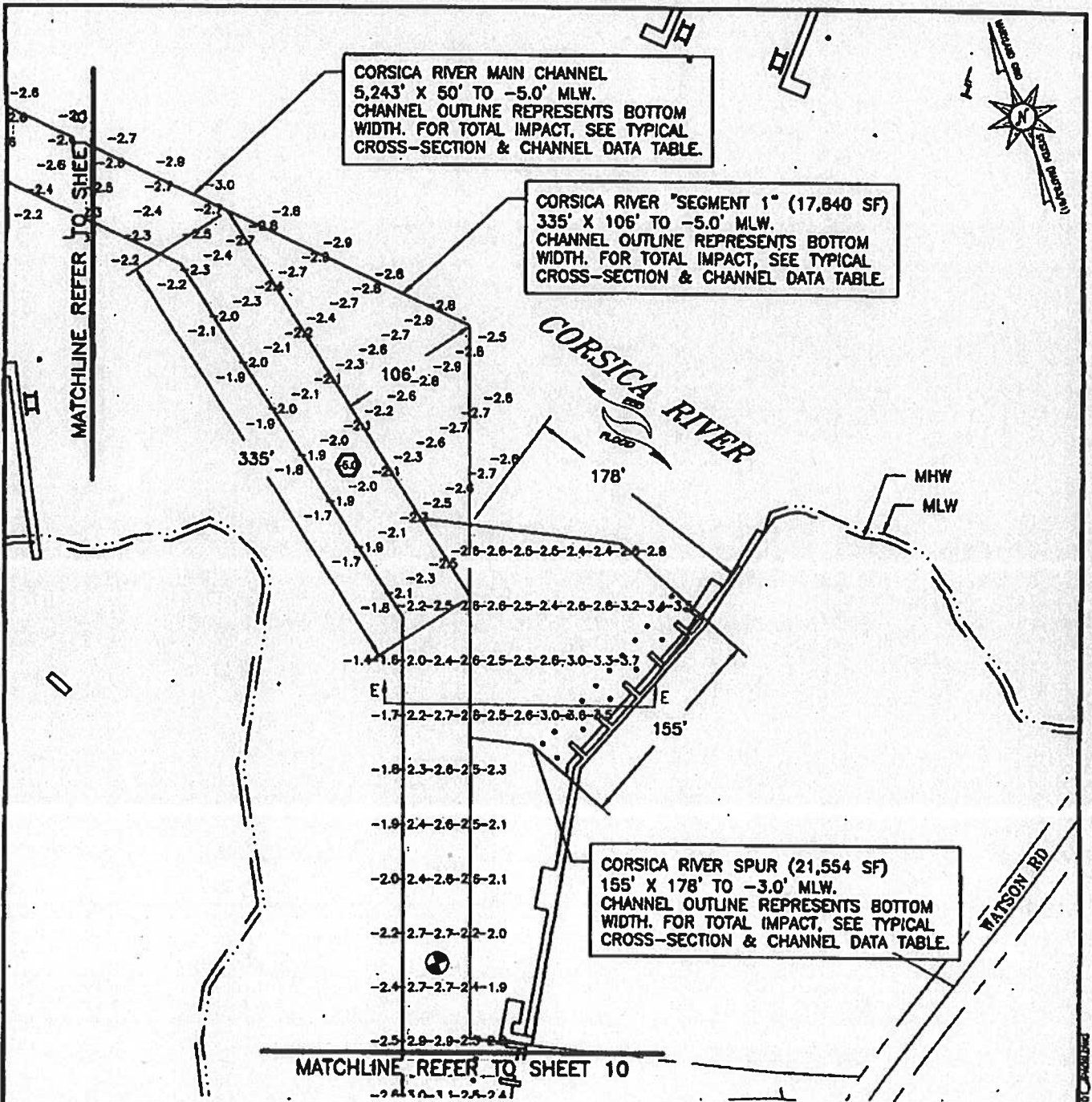
DATE: NOVEMBER 2019 SHEET 8 OF 13

19-WL-0460
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Consultants & Designers, Inc.
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 1625 New Edge Road, Suite 1100 | Phone: (410) 594-0821
 Ocean, Maryland 21851 | Fax: (410) 594-0825
 www.jayharris.com



**CORSICA RIVER
MAINTENANCE DREDGING**

QUEEN ANNE'S COUNTY, MD

APPL BY: QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS

MAIN CHANNEL PLAN

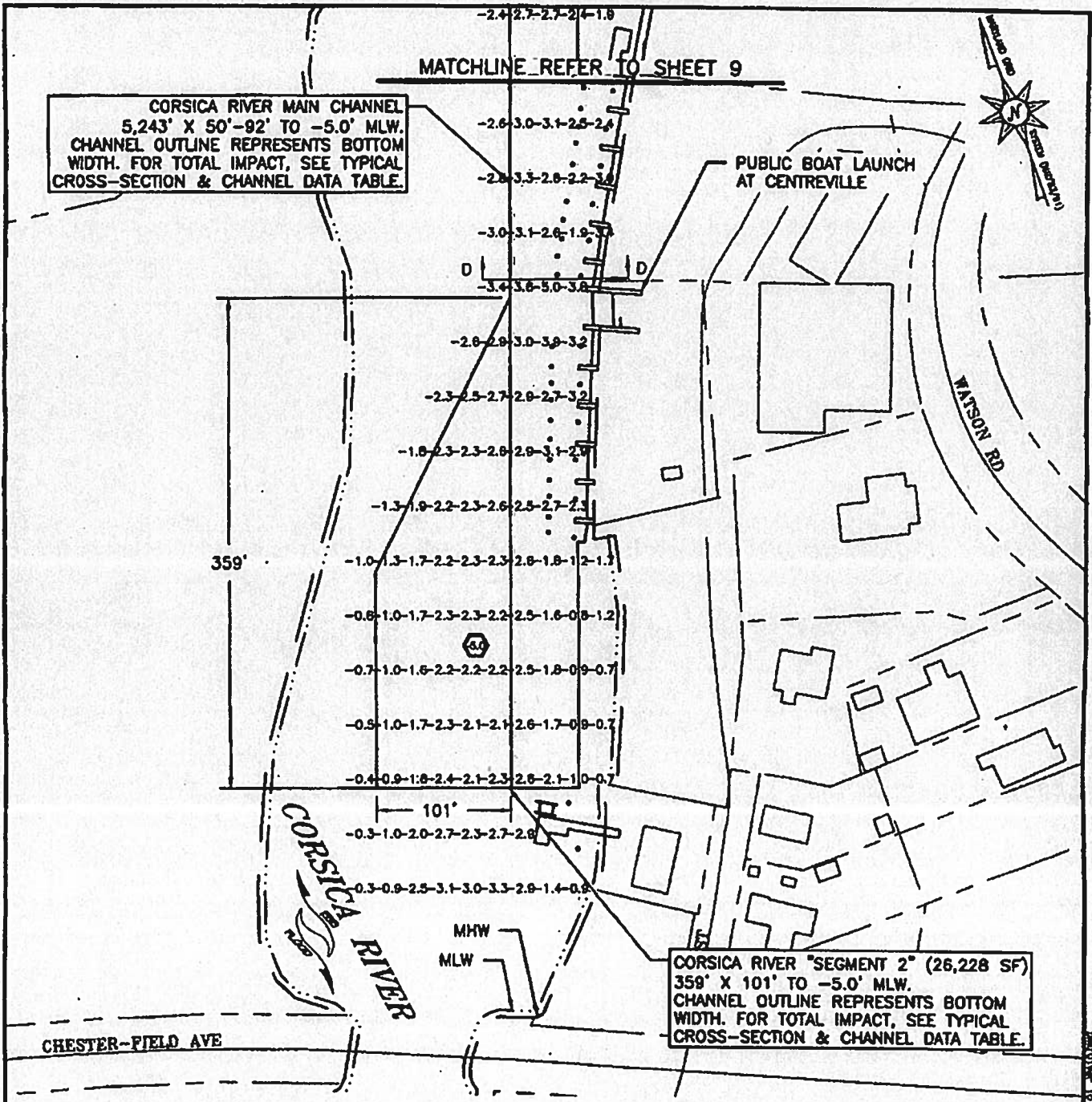
DATE: NOVEMBER 2019 SHEET 9 OF 13

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NOTE:
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1428 New Edge Road, Suite 7 P.O. Box 2277
Pawcatuck, Maryland 20779 Phone: (410) 664-6611
Fax: (410) 664-6612
www.hydroinc.com



**CORSICA RIVER
MAINTENANCE DREDGING**

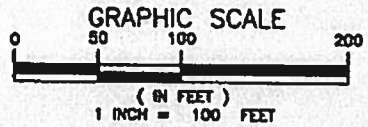
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11/5/19

QUEEN ANNE'S COUNTY, MD

**APPL BY: QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS**

MAIN CHANNEL PLAN

DATE: NOVEMBER 2019 SHEET 10 OF 13

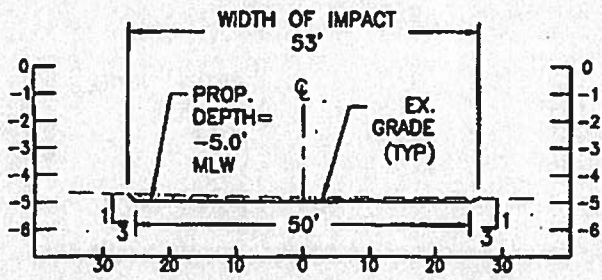


NOTE:
BASEMAP TAKEN FROM QUEEN ANNE'S COUNTY
2016 PLANIMETRICS AND 2016 BANGORY.

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

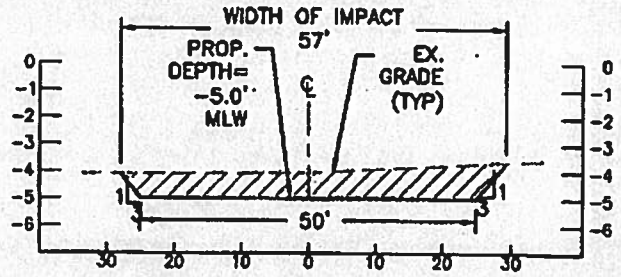
1435 New Market Road, Suite 7 P.O. Box 61901
Baltimore, Maryland 21278 P.O. Box 61901
www.cosentini.com Tel: (410) 644-9891

2019-11-05 10:00 AM PLS SEE SHEET 10 OF 13 FOR MATCHLINE



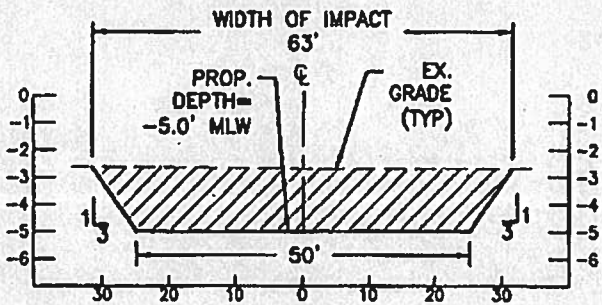
SECTION A-A

SCALE: NTS



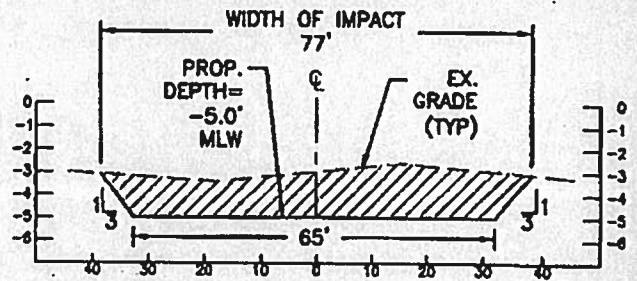
SECTION B-B

SCALE: NTS



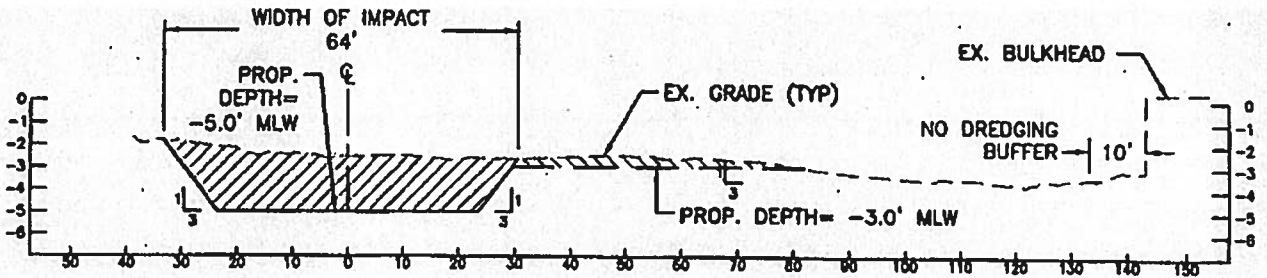
SECTION C-C

SCALE: NTS



SECTION D-D

SCALE: NTS



SECTION E-E

SCALE: NTS

CORSICA RIVER
MAINTENANCE DREDGING

QUEEN ANNE'S COUNTY, MD

APPL. BY: QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS

SECTIONS

DATE: NOVEMBER 2019 SHEET 11 OF 13

19-WL-0460

201960687

77450

11/5/19

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

1428 New Edge Road, Suite 7
Baltimore, Maryland 21275
www.hydroinc.com

Phone: (410) 644-0401
Fax: (410) 644-0401

SECTION E-E: 11/5/19 11:00 AM

CHANNEL DETAILS

CHANNEL	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	VOLUME (CY)
MAIN CHANNEL	5,243	50	-5.0	16,003
SEGMENT 1	335	106	-5.0	1,852
SEGMENT 2	359	101	-5.0	3,137
SPUR	155	178	-3.0	225
TOTAL MAIN CHANNEL LENGTH				5,243 LF
TOTAL MAIN CHANNEL VOLUME				21,217 CY
TOTAL MAIN CHANNEL AREA OF IMPACT				335,093 SF = 7.69 AC
TOTAL MAIN CHANNEL AREA OF IMPACT TO 2018 SAV				0 SF = 0 AC

NOTES:

1. BASEMAP COMPILED FROM QUEEN ANNE'S COUNTY 2018 PLANIMETRICS AND 2018 IMAGERY.
2. TIDAL RANGE IS 0.9 FEET.
3. BATHYMETRY FROM BAYLAND SURVEY DATED MARCH 07, 2019.
4. SOUNDINGS ARE IN FEET AND REFER TO MLW.
5. THE CORSICA CREEK CHANNEL PROPOSED FOR MAINTENANCE DREDGING WAS PREVIOUSLY PERMITTED UNDER CENAB-OP-RR 85-68372-3 (QAC PARKS & REC/CORSICA RIVER SPUR DREDGING) AND WTELANDS LICENSE 86-WL-0084.
6. THESE ARE PERMIT DRAWINGS ONLY. DESIGN DRAWINGS WILL BE PREPARED SEPARATELY.

CORSICA RIVER MAINTENANCE DREDGING

QUEEN ANNE'S COUNTY, MD

APPL. BY: QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS

CHANNEL DETAILS

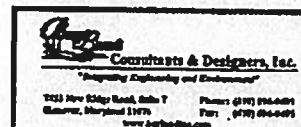
DATE: NOVEMBER 2019 SHEET 12 OF 13

19-WL-0460

201960687

#7450

11/5/19





WATSON ROAD
DMP SITE

EX. PERIMETER
DIKE

EX. WEIR BOX

LIMIT OF
CONTAINMENT AREA

AVAILABLE CAPACITY: 30,000 CY

CORSICA RIVER
MAINTENANCE DREDGING

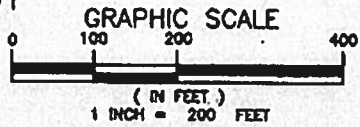
QUEEN ANNE'S COUNTY, MD

APPL BY: QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS

DMP SITE

DATE: NOVEMBER 2019 SHEET 13 OF 13

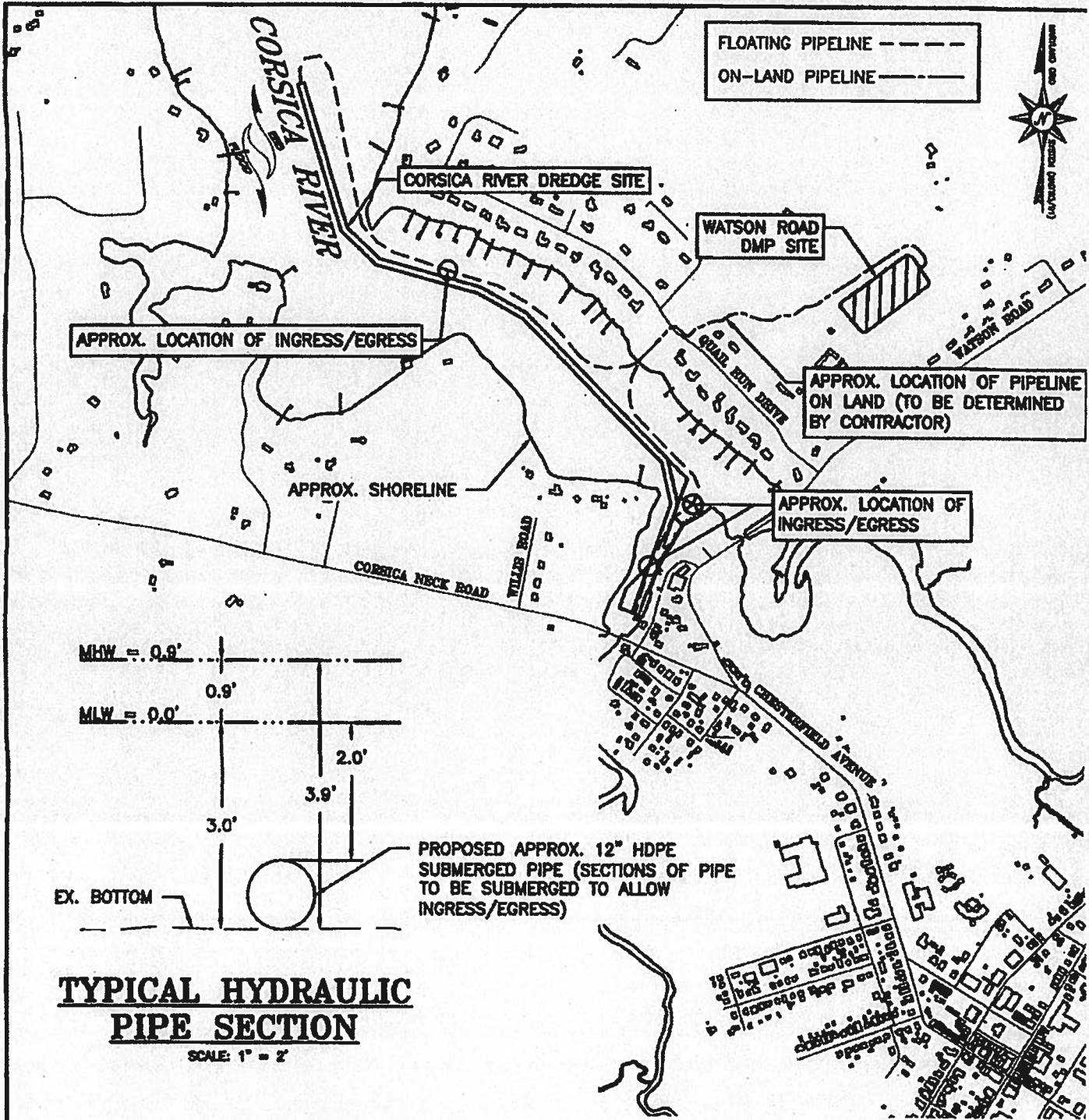
19-WL-0460
201960687
77450
11/5/19



NOTE:
BASEMAP TAKEN FROM QUEEN ANNE'S COUNTY
2016 PLANIMETRICS AND 2018 IMAGERY.

AD
Consultants & Designers, Inc.
"Integrating Engineering and Environment"
 2428 New Edge Road, Suite 7 Phone: (410) 864-4281
 Essex, Maryland 21721 Fax: (410) 864-4282
 www.adinc.com

DATE PLOTTED: 11/15/19 10:58 AM



TYPICAL HYDRAULIC PIPE SECTION
SCALE: 1" = 2'

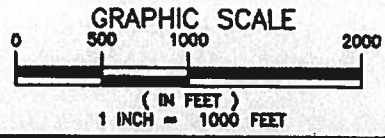
**CORSICA RIVER
MAINTENANCE DREDGING**
QUEEN ANNE'S COUNTY, MD

APPL. BY: QUEEN ANNE'S COUNTY
DEPARTMENT OF PARKS

HYDRAULIC PIPELINE PLAN

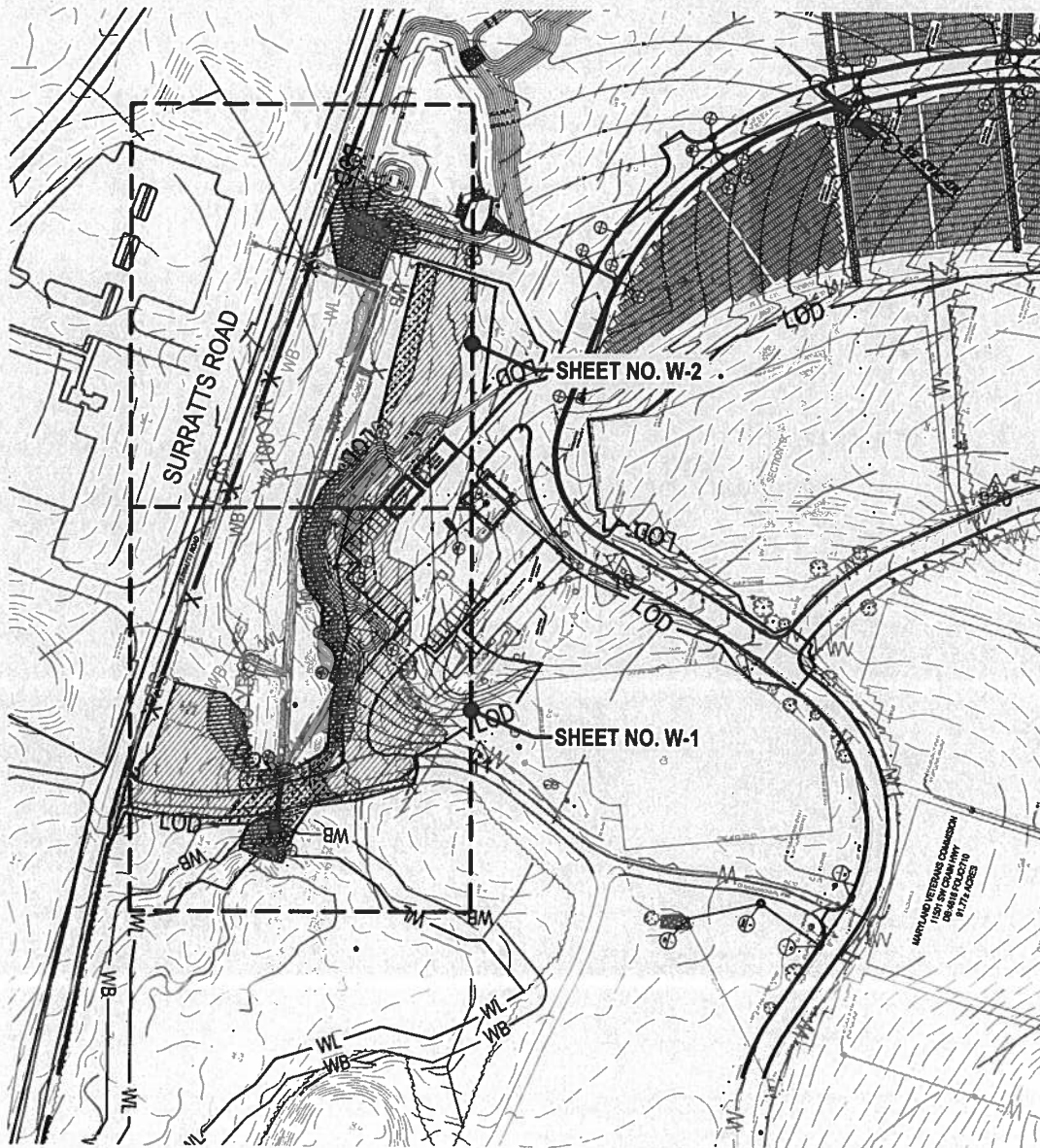
DATE: APRIL 2019 SHEET 1 OF 1

AI# 77450
TRACKING# 201960687
PERMIT# 19-WL-0460
4/15/19








NOTE:
1. BASEMAP TAKEN FROM QUEEN ANNE'S COUNTY 2016 PLANIMETRICS AND 2010 BACRY.
2. DREDGE TO BE PERFORMED HYDRAULICALLY OR MECHANICALLY WITH HYDRAULIC OFFLOAD. DETAILED DREDGING OPERATIONS PLAN WILL BE SUBMITTED BY THE CONTRACTOR PRIOR TO DREDGING.

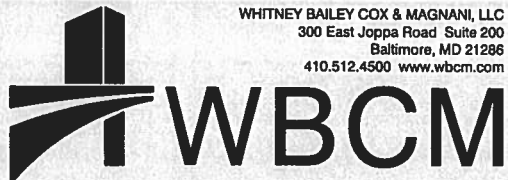
Consultants & Designers, Inc.
"Integrating Engineering and Environment"
1433 New Edge Road, Suite 7 Phone: (410) 694-9463
Rehoboth, Maryland 21876 Fax: (410) 694-4865
www.baydred.com



DISTURBANCE SUMMARY

STREAM DISTURBANCE		= 415 SF/ 75 LF, 24 CY CUT, 86 CY FILL (PERMANENT)
WETLANDS DISTURBANCE		= 3852 SF, 20 CY CUT, 147 CY FILL (PERMANENT) = 556 SF (TEMPORARY)
25' WETLANDS BUFFER DISTURBANCE		= 12138 SF, 169 CY CUT, 687 CY FILL (PERMANENT) = 2428 SF (TEMPORARY)
TIER II RIPARIAN STREAM BUFFER IN LOD		= 88427 SF, 423 CY CUT, 2452 CY FILL (PERMANENT)
100 YEAR FLOODPLAIN IN LOD		= 19370 SF, 164 CY CUT, 139 CY FILL (PERMANENT)

Feb 03, 2020 - 10:16am User: emasek



WHITNEY BAILEY COX & MAGNANI, LLC
300 East Joppa Road Suite 200
Baltimore, MD 21286
410.512.4500 www.wbcm.com

Designing Infrastructure for Tomorrow®

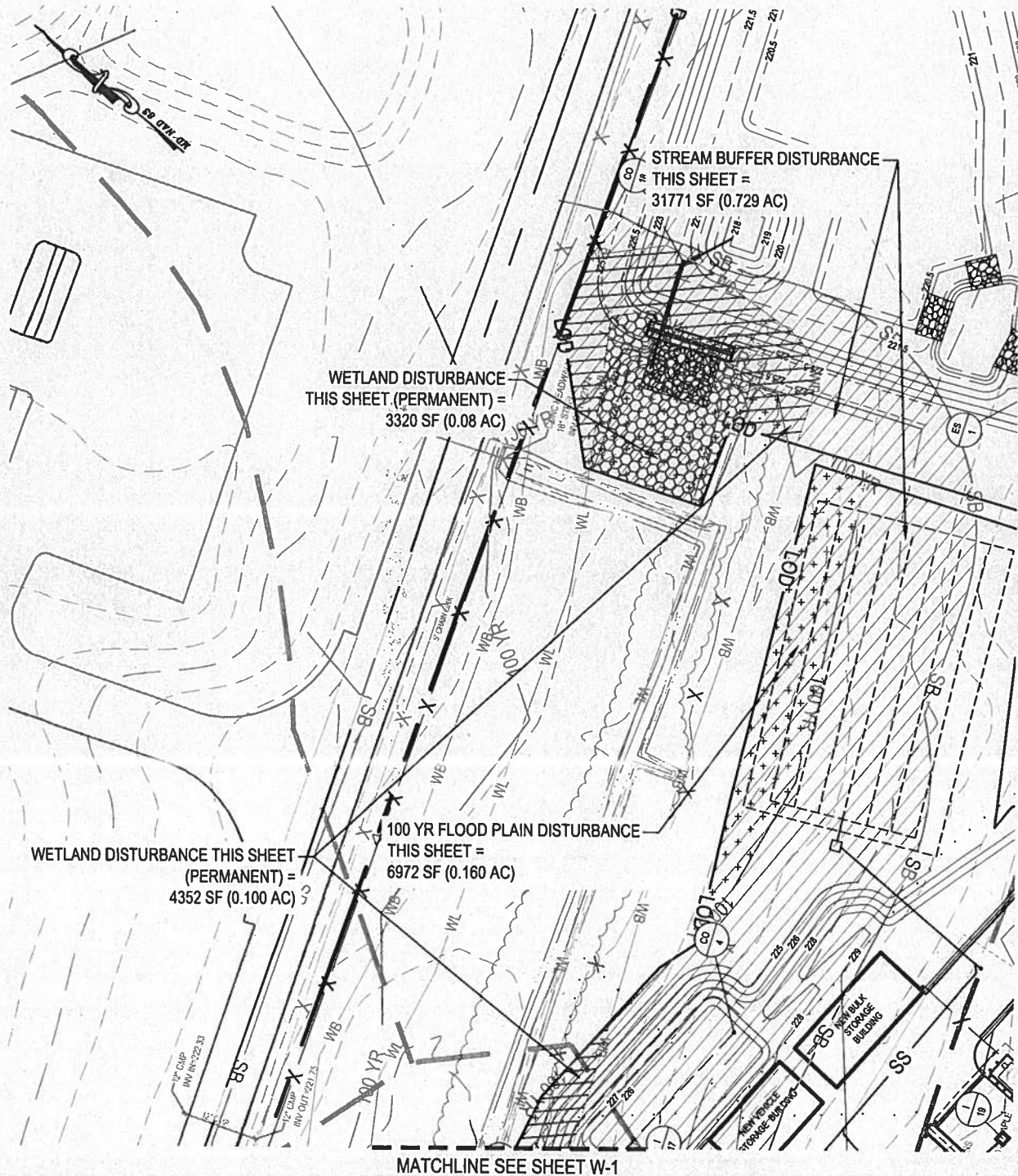
PROPOSED DISTURBANCE PLAN

JOINT PERMIT APPLICATION
CHELTENHAM VETERANS CEMETERY
EXPANSION OF BURIAL CAPACITY & INFRASTRUCTURE
IMPROVEMENTS
PRINCE GEORGE'S COUNTY, MARYLAND


DATE:
12/05/19

SCALE:
1"=200'

W-0



Feb 03, 2020 - 10:24am User: emasek



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PROPOSED DISTURBANCE PLAN

JOINT PERMIT APPLICATION
 CHELTENHAM VETERANS CEMETERY
 EXPANSION OF BURIAL CAPACITY & INFRASTRUCTURE
 IMPROVEMENTS
 PRINCE GEORGE'S COUNTY, MARYLAND

DATE:
12/05/19

SCALE:
1"=60'

W-2