

U.S. Army Corps
of Engineers
Baltimore District

Public Notice

In Reply to Application Number
CENAB-OP-RMN (MD SHA/Project No. TA392B21/MD 331
over the Choptank River/Bridge Replacement) 2013-61457-M24

PN 14-14

Comment Period: February 20, 2014 – March 21, 2014

THE PURPOSE OF THIS PUBLIC NOTICE IS TO SOLICIT COMMENTS FROM THE PUBLIC ABOUT THE WORK DESCRIBED BELOW. AT THIS TIME, NO DECISION HAS BEEN MADE AS TO WHETHER OR NOT A PERMIT WILL BE ISSUED.

The Baltimore District has received an application for a Department of the Army Permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404 of the Clean Water Act (33 U.S.C. 1344), as described below:

APPLICANT: Mr. Todd Nichols
Maryland State Highway Administration
707 N. Calvert Street
Baltimore, Maryland 21202

WATERWAY AND LOCATION: Choptank River between Talbot and Caroline Counties at the MD 331 bridge, on the eastern shore of Maryland.

PROPOSED WORK: To replace an existing, functionally obsolete, two-lane, swing span bridge (Dover Bridge) with a 2,021-foot long, 44-foot wide, 50-foot high fixed span bridge along MD 331, at the Choptank River, between Talbot and Caroline Counties, Maryland. The proposed project will replace the Dover Bridge with a fixed span bridge directly downstream of the existing bridge, allowing the historic Dover Bridge to remain in place and operational. The work will also include construction of a temporary construction trestle, dredging, relocation of a 6-inch gas line by others, installation of two culverts through the existing MD 331 road causeway, and construction of a causeway within the tidal marsh in order to align the new bridge with the existing MD 331 alignment.

The project will result in unavoidable impacts to tidal wetlands and waters including 116,961 square feet (2.69 acres) of permanent and 38,056 square feet (0.87 acres) of temporary impacts to tidal wetlands, 22,531 square feet (0.52 acres) of permanent and 5,548 square feet (0.13 acres) temporary impacts to tidal open waters, and 120 linear feet (840 square feet) of permanent impacts to non-tidal waters of the U.S. Of the permanent impacts listed above, the area to be mechanically dredged is 14,207 square feet of open water and 2,829 square feet of tidal wetlands, resulting in 1,440 cubic yards of dredged material to be barged to the Weanack dredged material containment facility, 461 Shirley Plantation Road, Charles City, Virginia 23030.

The applicant has proposed wetland creation to mitigate for impacts to wetlands and tidal waters. The proposal is to mitigate for permanent tidal emergent wetland and tidal open water wetland impacts through the creation of 7.29 acres of tidal wetlands in an agricultural field (Jester property) adjacent to the project site on the north side of MD 331, east of the Dover Bridge. The wetland mitigation construction will result in 1,908 square feet (0.04 acres) of permanent and 1,947 square feet (0.04 acres) temporary impacts to tidal wetland, and 588 square feet (0.01 acres) of permanent and 154 square feet (0.003 acres) of temporary impacts to tidal open water. These impacts are accounted for in the total mitigation requirements for the project. As part of the mitigation package, the applicant is also proposing to install two, 36-inch concrete culverts in the existing causeway for wildlife passage, and a super silt fence with turtle exclusion lip to keep turtles from entering the roadway, and reduce turtle mortality at the project site.

For bridge construction, design alternatives considered included a temporary fill work platform or causeway, a 40 ft wide temporary trestle, a leap frog construction method (cast in place), and a 1400 ft

bridge extension. The temporary construction trestle avoids fill in tidal wetlands and is the preferred construction access alternative.

All work is to be completed in accordance with the enclosed plan(s). If you have any questions concerning this matter, please contact Mrs. Mary Frazier at 410-962-5679 or Mary.A.Frazier@usace.army.mil.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, and, in general, the needs and welfare of the people.

The evaluation of the impact of the work described above on the public interest will include application of the Clean Water Act Section 404 (b) (1) Guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under the authority of the Section 404 of the Clean Water Act.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written comments concerning the work described above related to the factors listed above or other pertinent factors must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, ATTN: Mrs. Mary Frazier, CENAB-OP-RMN, P.O. Box 1715, Baltimore, Maryland 21203-1715, within the comment period specified above.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA), as amended by the Sustainable Fisheries Act of 1996 (Public Law 04-267), requires all Federal agencies to consult with the National Marine Fisheries Service (NMFS) on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely affect essential fish habitat (EFH).

The project site lies in or adjacent to EFH as described under MSFCMA for Scophthalmus aquosus (windowpane flounder) juvenile and adult; Pomatomus saltatrix (blue fish) juvenile and adult; Paralichthys dentatus (summer flounder) juvenile and adult; Peprilis triacanthos (Atlantic butterfish) eggs, larvae, juvenile and adult ; Centropristus striata (black sea bass) juvenile and adult; eggs, larvae, juvenile, and adult stages of Sciaenops ocellatus (red drum), Scomberomorus cavalla (king mackerel), Scomberomorus maculatus (spanish mackerel), and Rachycentron canadum (cobia), all managed species under the MSFCMA.

The project has the potential to adversely affect EFH or the species of concern by loss of nursery, forage and/or shelter habitat. The project may have an adverse effect on Essential Fish Habitat as described under the Magnuson-Stevens Fishery Conservation and Management Act for the species and life stages identified above. However, the District Engineer has made a preliminary determination that site-specific impacts would not be substantial and an abbreviated consultation will be

conducted with NMFS. This determination may be modified if additional information indicates otherwise and would change the preliminary determination.

SECTION 401 WATER QUALITY CERTIFICATION: The applicant is required to obtain a water quality certification in accordance with Section 401 of the Clean Water Act from the Maryland Department of the Environment. Any written comments concerning the work described above which relate to water quality certification must be received by the Maryland Department of the Environment, Tidal Wetlands Division, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland 21230, within the comment period as specified above to receive consideration. The Section 401 certifying agency has a statutory limit of one year from the date of this public notice to make its decision.

COASTAL ZONE MANAGEMENT PROGRAM: The applicant has certified in this application that the proposed activity complies with and will be conducted in a manner consistent with the State's federally-approved Coastal Zone Management Program (CZMP). By this public notice, we are requesting the State's concurrence or objection to the applicant's consistency certification statement. It should be noted that Maryland's CZMP has a statutory limit of 6 months to make its consistency determination.

The applicant must obtain any State or local government permits which may be required.

A preliminary review of this application indicates that the proposed work will not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

Review of the latest published version of the National Register of Historic Places indicates that no registered properties listed as eligible for inclusion therein are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or destroyed by the work to be accomplished under the requested permit.

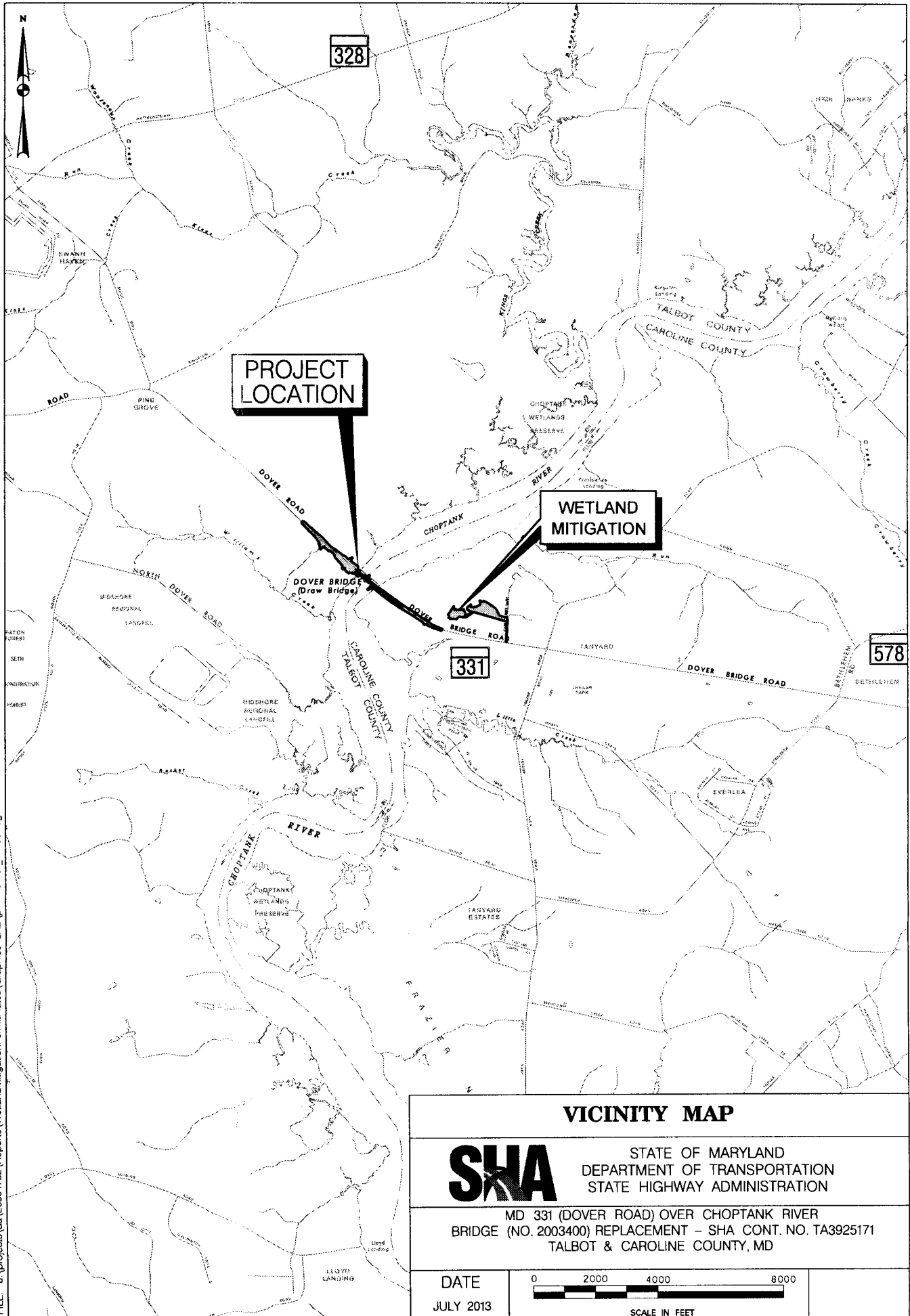
Any person who has an interest which may be adversely affected by the issuance of this permit may request a public hearing. The request, which must be in writing, must be received by the District Engineer, U.S. Army Corps of Engineers, Baltimore District, [Attn: Mrs. Mary Frazier, CENAB-OP-RMN], P.O. Box 1715, Baltimore, Maryland 21203-1715, within the comment period as specified as above to receive consideration. Also, it must clearly state forth the interest which may be adversely affected by this activity and the manner in which the interest may be adversely affected.

It is requested that you communicate the foregoing information concerning the proposed work to any persons known by you to be interested and not being known to this office, who did not receive a copy of this notice.

FOR THE DISTRICT ENGINEER:

JOSEPH P. DAVIA
Chief, Maryland Section Northern

PLOTTED: Friday, January 31, 2014 AT 10:59 AM
FILE: u:\projects\aa\20834782\Reports\WetlandMitigationPermit\Graphics-CAD\pWP_GWD1_MD331.dgn



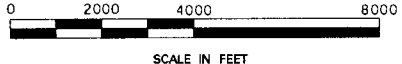
VICINITY MAP

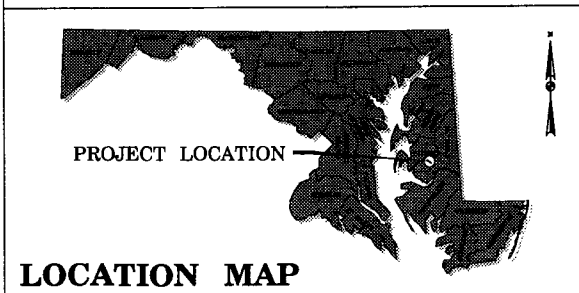
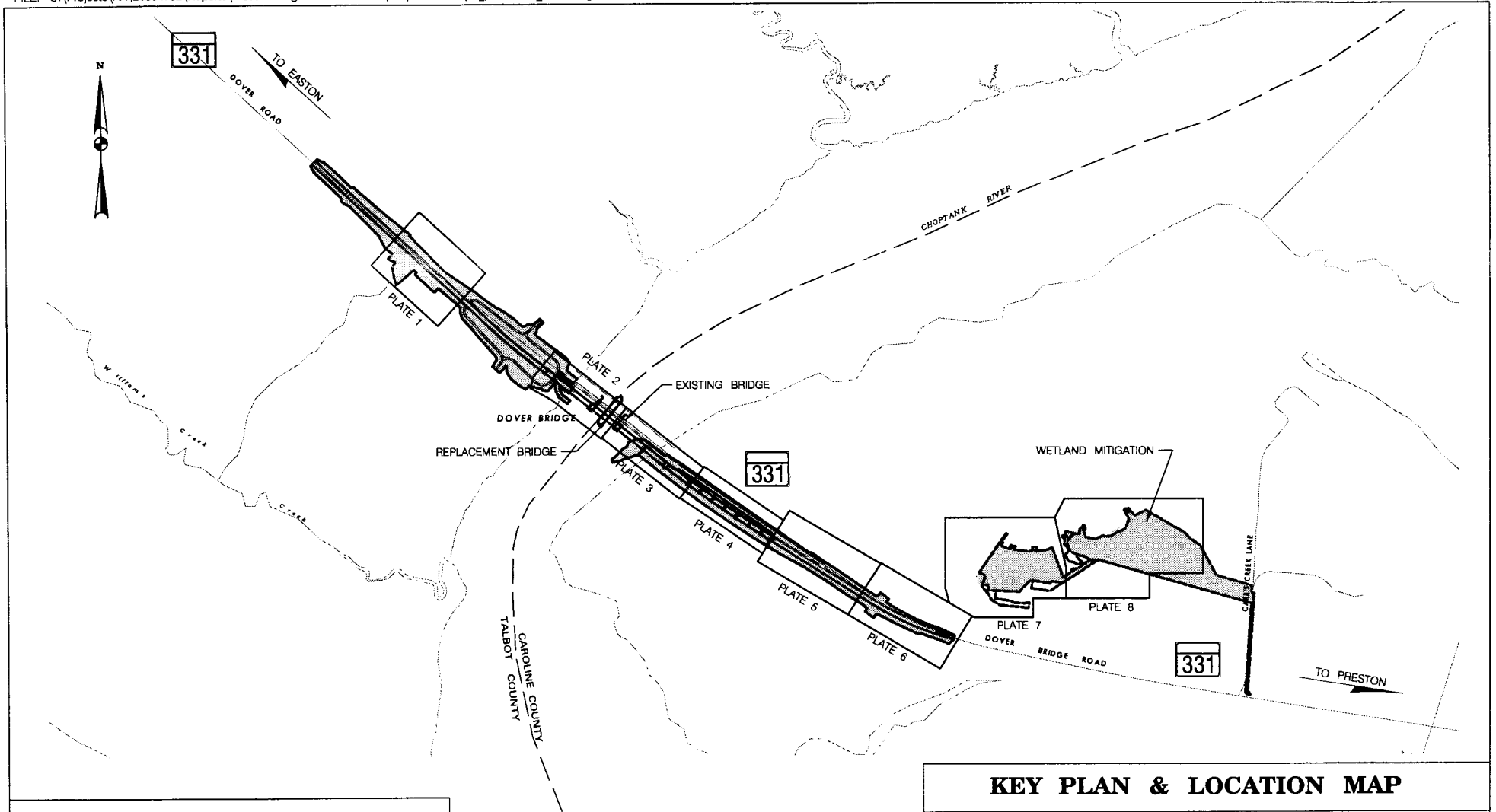


STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
BRIDGE (NO. 2003400) REPLACEMENT - SHA CONT. NO. TA3925171
TALBOT & CAROLINE COUNTY, MD

DATE
JULY 2013





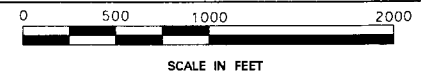
KEY PLAN & LOCATION MAP



STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
 BRIDGE (NO. 2003400) REPLACEMENT - SHA CONT. NO. TA3925171
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Summary of Impacts

TIDAL WETLAND:

	Total (sf)	IMPACT PLATE NO.							
		1	2	3	4	5	6	7	8
PERMANENT =	118961	0	275	20682	25742	50404	18536	0	1322
TEMPORARY =	38056	0	32	16529	17530	214	1804	1947	0

25' NON-TIDAL WETLAND BUFFER:

PERMANENT =	0	0	0	0	0	0	0	0	0
TEMPORARY =	0	0	0	0	0	0	0	0	0

NON-TIDAL WATERS OF THE U.S.:

PERMANENT =	840	840	0	0	0	0	0	0	0
TEMPORARY =	0	0	0	0	0	0	0	0	0

OPEN WATER TIDAL WETLANDS:

PERMANENT =	22531	0	2356	16190	106	488	2803	0	568
TEMPORARY =	5548	0	2301	0	0	0	3093	154	0

DETAIL BREAKDOWN (INCLUDED IN WETLAND IMPACT TOTALS):

VEGETATED TIDAL WETLAND FOR BRIDGE CONSTRUCTION:

PERMANENT =	332	0	0	0	332	0	0	0	0
TEMPORARY =	0	0	0	0	0	0	0	0	0

FILL FOR ROADWAY:

PERMANENT =	49797	0	0	0	0	37598	12199	0	0
TEMPORARY =	0	0	0	0	0	0	0	0	0

FILL FOR ROADWAY EMBANKMENT STABILIZATION:

PERMANENT =	20050	0	0	0	918	12795	6337	0	0
TEMPORARY =	0	0	0	0	0	0	0	0	0

VEGETATED TIDAL WETLAND FOR TEMPORARY TRESTLE BRIDGE CONSTRUCTION:

PERMANENT =	90	0	0	40	40	10	0	0	0
TEMPORARY =	34273	0	0	16529	17530	214	0	0	0

PERMANENT OPEN WATER AND VEGETATED TIDAL WETLAND IMPACT = 139,492 SF (3.20 Ac.)
 TEMPORARY OPEN WATER AND VEGETATED TIDAL WETLAND IMPACT = 43,604 SF (1.00 Ac.)
 TOTAL = 183,096 SF (4.20 Ac.)

		Mitigation Ratio	Mitigation Req'd	
PERMANENT OPEN WATER IMPACT =	8,324 SF (0.19 Ac.)	1:1	8,324 SF (0.19 Ac.)	
PERMANENT OPEN WATER IMPACT FOR DREDGING =	14,207 SF (0.33 Ac.)	1:1	14,207 SF (0.33 Ac.)	
TEMPORARY OPEN WATER IMPACT =	5,548 SF (0.13 Ac.)	0:1	0 SF (0.00 Ac.)	
PERMANENT VEGETATED TIDAL WETLAND IMPACT =	116,871 SF (2.68 Ac.)	2:1	233,742 SF (5.37 Ac.)	
TEMPORARY VEGETATED TIDAL WETLAND IMPACT =	3,783 SF (.09 Ac.)	2:1	7,566 SF (.17 Ac.)	
TEMPORARY VEGETATED TIDAL WETLAND IMPACT FOR TRESTLE =	34,273 SF (.79 Ac.)	0:1	0 SF (.00 Ac.)	
PERMANENT VEGETATED TIDAL WETLAND IMPACT FOR TRESTLE PILES =	90 SF (.00 Ac.)	2:1	180 SF (.00 Ac.)	
TOTAL TIDAL WETLAND IMPACT	183,096 SF (4.21 Ac.)		264,019 SF (6.06 Ac.)	

TIDAL WETLAND MITIGATION PROVIDED OFFSITE = 6.90 Ac.
 TIDAL WETLAND MITIGATION PROVIDED ONSITE (BRIDGE SHADING*) = .39 Ac.
 TOTAL TIDAL WETLAND MITIGATION PROVIDED = 7.29 Ac.

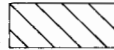



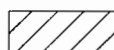



* AREA UNDER BRIDGE WHERE H/W > 0.7

Legend

FEATURES

- LIMIT OF DISTURBANCE — LOD —
- WETLAND ● ● ●
- BUFFER — B —
- WATERS OF U.S. — WUS —
- CHESAPEAKE BAY CRITICAL AREA — CBCA —
- CRITICAL AREA BUFFER — CAB —
- HISTORIC SITE — H —

IMPACTS

- TEMPORARY VEGETATED TIDAL WETLAND IMPACTS —  PERMANENT VEGETATED TIDAL WETLAND IMPACTS — 
- TEMPORARY OPEN WATER TIDAL WETLAND IMPACTS —  PERMANENT OPEN WATER TIDAL WETLAND IMPACTS — 
- TEMPORARY NON-TIDAL WATERS OF THE US IMPACTS —  PERMANENT STABILIZING BERM TIDAL WETLAND IMPACTS — 
- PERMANENT NON-TIDAL WATERS OF THE US IMPACTS —  PERMANENT BRIDGE SHADING TIDAL WETLAND IMPACT — 

SUMMARY OF IMPACTS



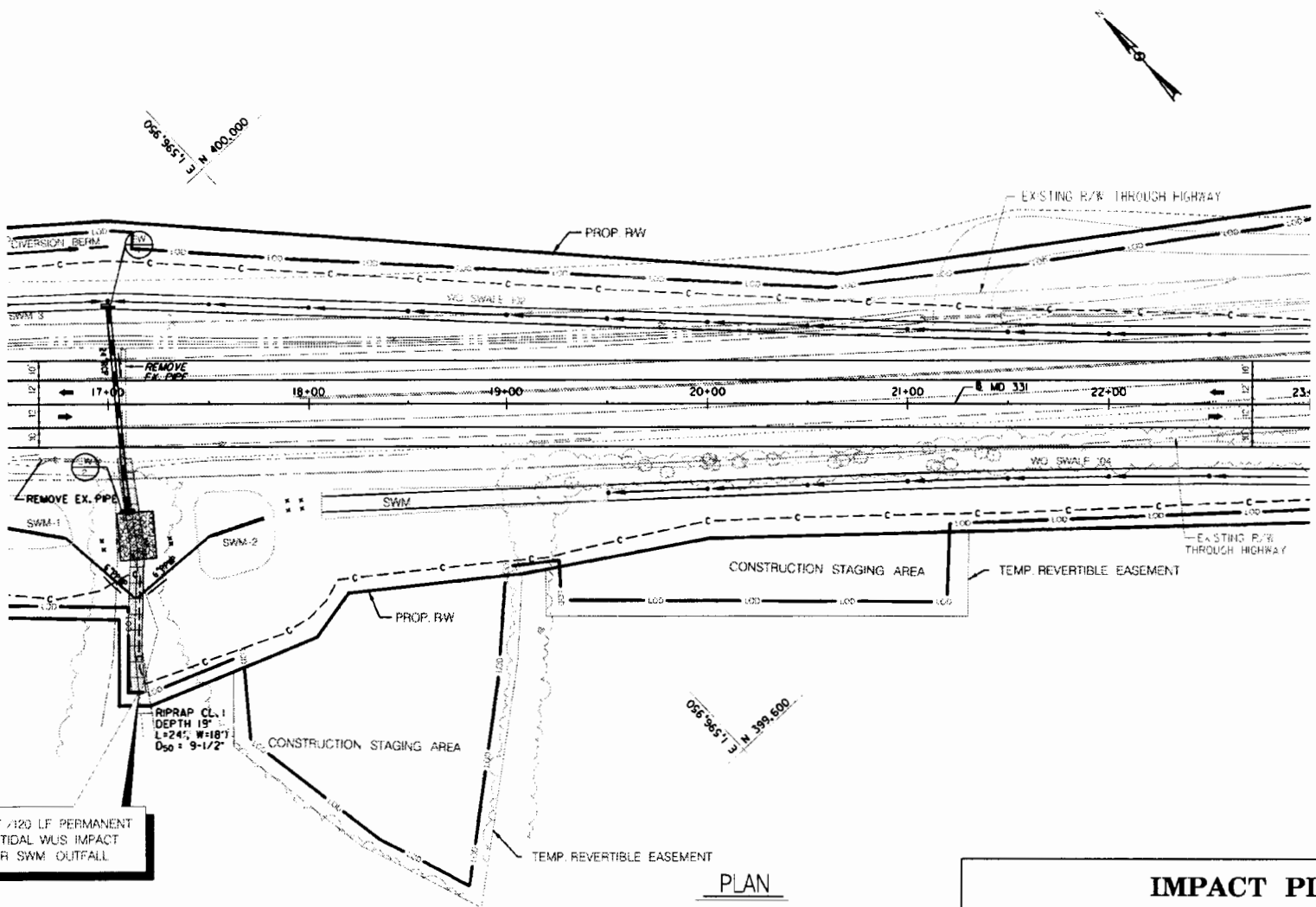
STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
 BRIDGE (NO. 2003400) REPLACEMENT - SHA CONT. NO. TA3925171
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SCALE IN FEET


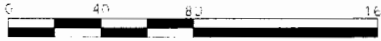


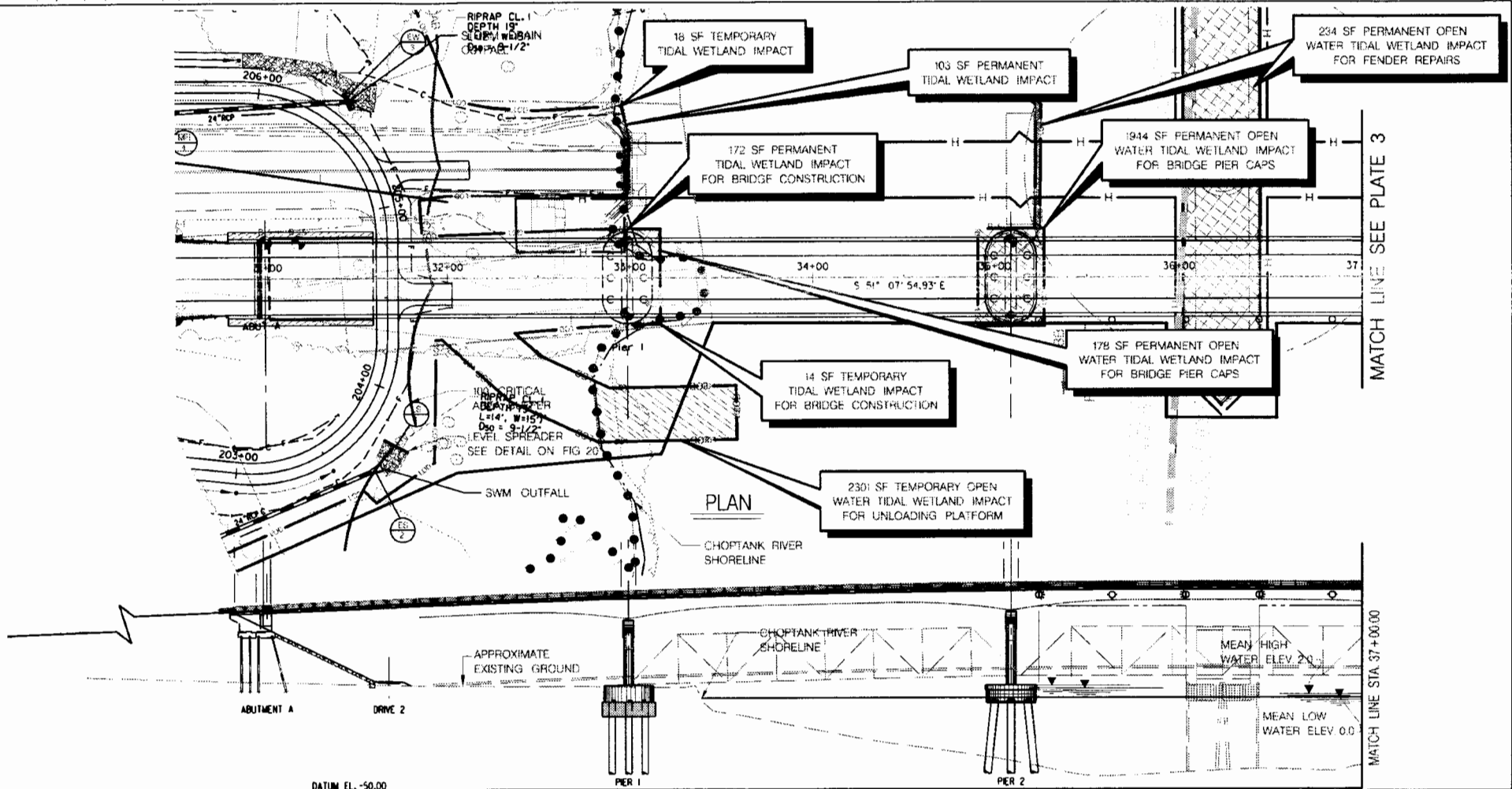
840 SF / 120 LF PERMANENT
 NON-TIDAL WUS IMPACT
 FOR SWM OUTFALL

PLAN

IMPACTS
 NON-TIDAL WATERS OF THE U.S.:

	Total (sf)	Total (lf)
PERMANENT =	840	120
TEMPORARY =	0	0

IMPACT PLATE 1		
 STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION		
MD 331 (DOVER ROAD) OVER CHOPTANK RIVER BRIDGE (NO. 2003400) REPLACEMENT -- SHA CONT. NO. TA3925171 TALBOT & CAROLINE COUNTY, MD ENVIRONMENTAL IMPACT PLATES		
DATE JULY 2013	 SCALE IN FEET	PLATE 1 OF 8



IMPACTS

TIDAL WETLAND:

	Total (sf)
PERMANENT =	275
TEMPORARY =	32

OPEN WATER TIDAL WETLANDS:

PERMANENT =	2356
TEMPORARY =	2301

ELEVATION

IMPACT PLATE 2



STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
 BRIDGE (NO. 2003400) REPLACEMENT - SHA CONT. NO. TA3925171
 TALBOT & CAROLINE COUNTY, MD
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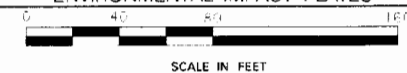
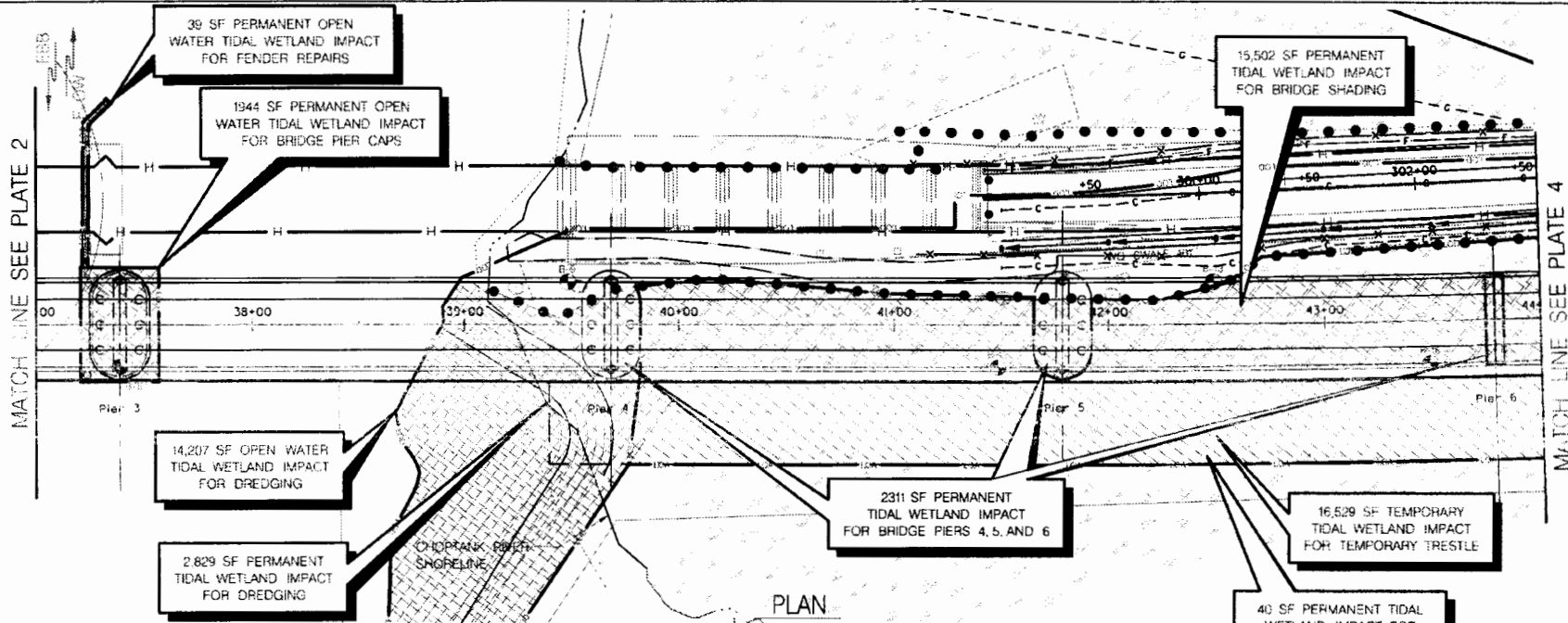
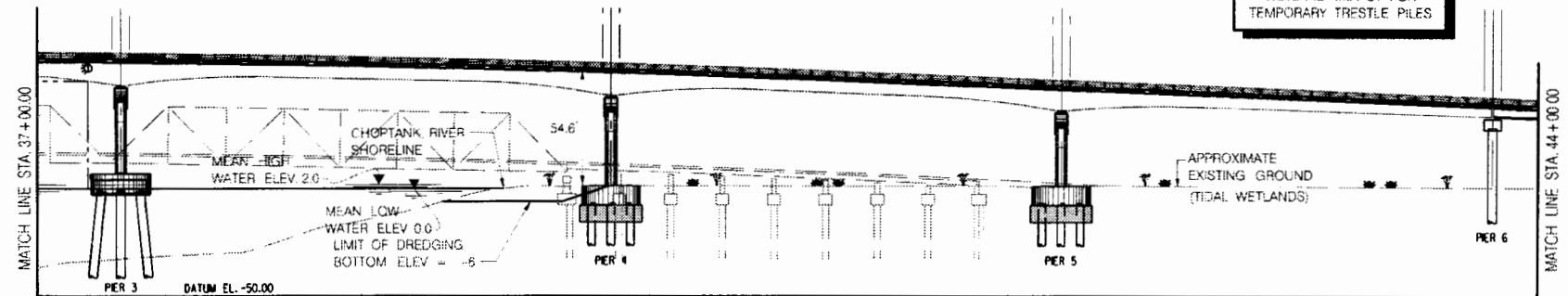


PLATE
 2 OF 8



PLAN



ELEVATION

IMPACTS

TIDAL WETLAND:

	Total (sf)
PERMANENT =	20682
TEMPORARY =	16529

OPEN WATER TIDAL WETLANDS:

PERMANENT =	16190
TEMPORARY =	0

DETAIL BREAKDOWN (INCLUDED IN WETLAND IMPACT TOTALS):

VEGETATED TIDAL WETLAND FOR TEMPORARY TRESTLE BRIDGE CONSTRUCTION:

PERMANENT =	40	for Piles
TEMPORARY =	16529	

VEGETATED TIDAL WETLAND FOR BRIDGE SHADING:

PERMANENT =	15502
TEMPORARY =	0

IMPACT PLATE 3



STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
 BRIDGE (NO. 2003400) REPLACEMENT -- SHA CONT. NO. TA3925171
 TALBOT & CAROLINE COUNTY, MD
 ENVIRONMENTAL IMPACT PLATES

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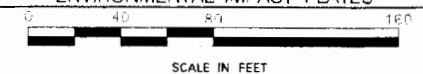
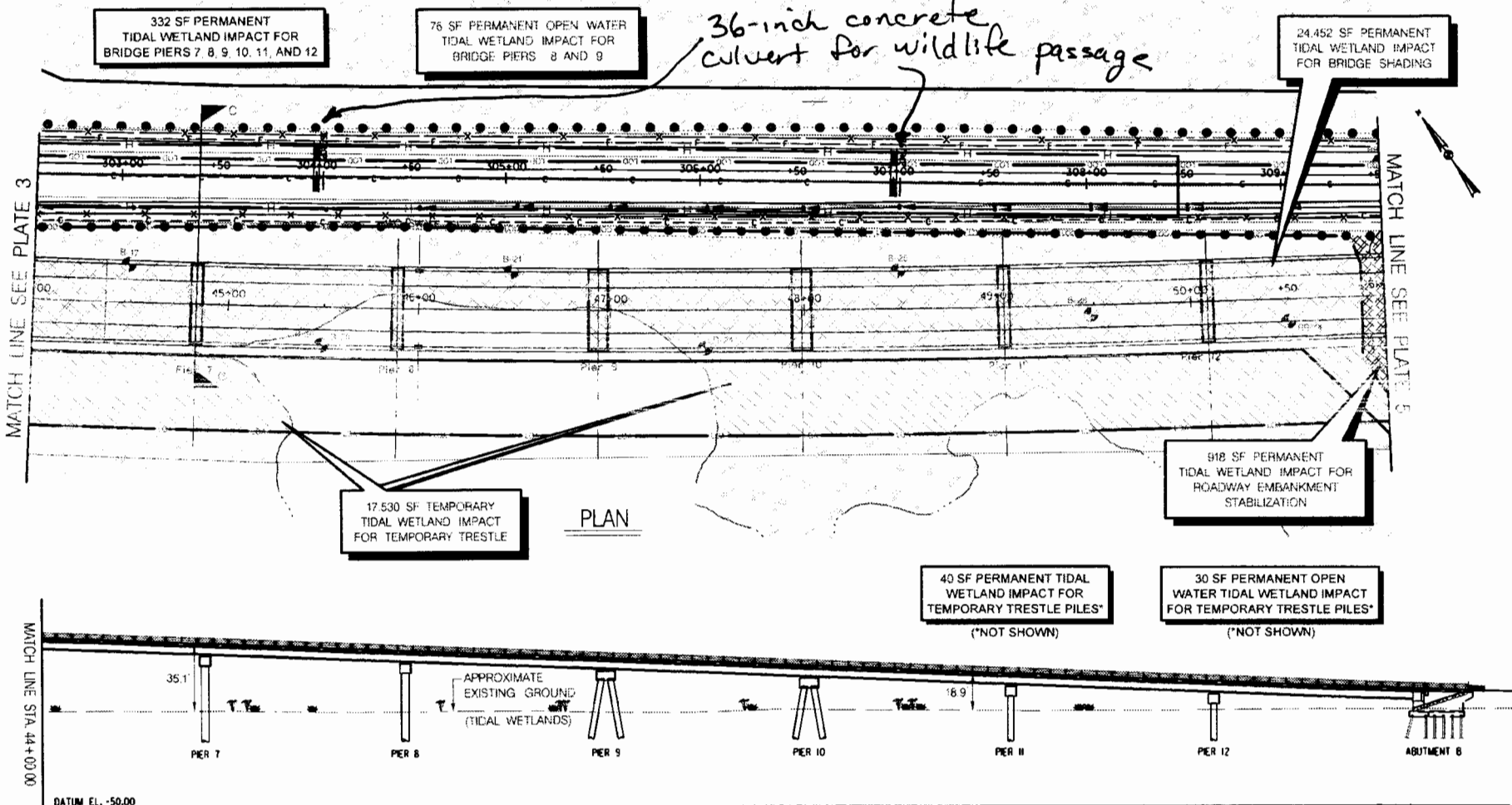


PLATE
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IMPACTS

TIDAL WETLAND:

	Total (sf)
PERMANENT =	25742
TEMPORARY =	17530

OPEN WATER TIDAL WETLANDS:

PERMANENT =	106
TEMPORARY =	0

DETAIL BREAKDOWN (INCLUDED IN WETLAND IMPACT TOTALS):

VEGETATED TIDAL WETLAND FOR BRIDGE CONSTRUCTION:

PERMANENT =	332
TEMPORARY =	0

FILL FOR ROADWAY EMBANKMENT STABILIZATION:

PERMANENT =	918
TEMPORARY =	0

VEGETATED TIDAL WETLAND FOR TEMPORARY TRESTLE BRIDGE CONSTRUCTION:

PERMANENT =	40	for Piles
TEMPORARY =	17530	

VEGETATED TIDAL WETLAND FOR BRIDGE SHADING:

PERMANENT =	24452
TEMPORARY =	0

IMPACT PLATE 4



STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
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 ENVIRONMENTAL IMPACT PLATES

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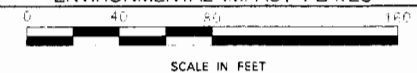
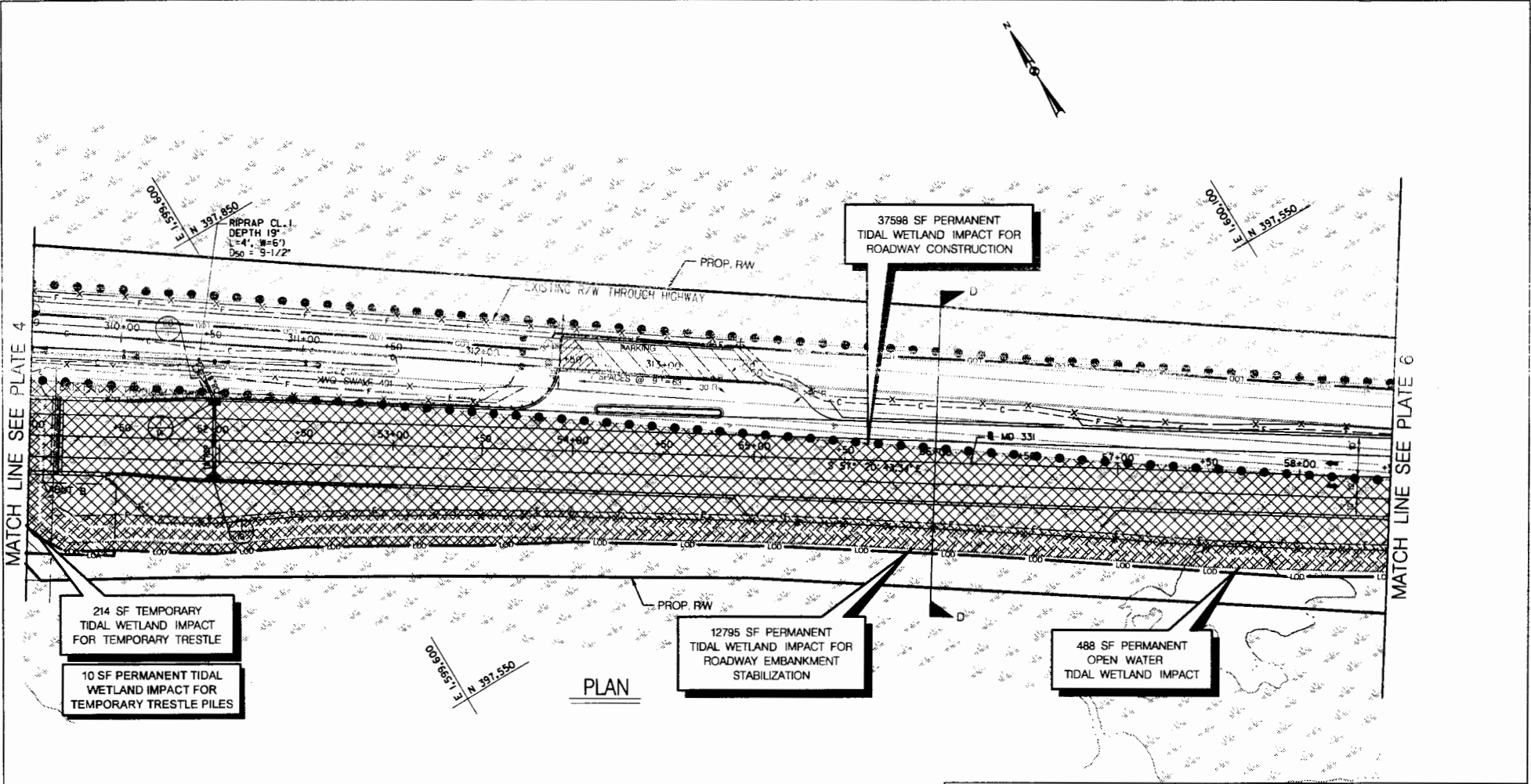


PLATE
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PLAN

DETAIL BREAKDOWN (INCLUDED IN WETLAND IMPACT TOTALS):

IMPACTS

TIDAL WETLAND:

	Total (sf)
PERMANENT =	50404
TEMPORARY =	214

OPEN WATER TIDAL WETLANDS:

PERMANENT =	488
TEMPORARY =	0

VEGETATED TIDAL WETLAND FOR BRIDGE CONSTRUCTION:

PERMANENT =	0
TEMPORARY =	0

FILL FOR ROADWAY:

PERMANENT =	37598
TEMPORARY =	0

FILL FOR ROADWAY EMBANKMENT STABILIZATION:

PERMANENT =	12795
TEMPORARY =	0

VEGETATED TIDAL WETLAND FOR TEMPORARY TRESTLE BRIDGE CONSTRUCTION:

PERMANENT =	10	for Piles
TEMPORARY =	214	

VEGETATED TIDAL WETLAND FOR BRIDGE SHADING:

PERMANENT =	0
TEMPORARY =	0

IMPACT PLATE 5



STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

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 ENVIRONMENTAL IMPACT PLATES

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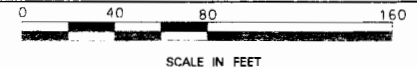
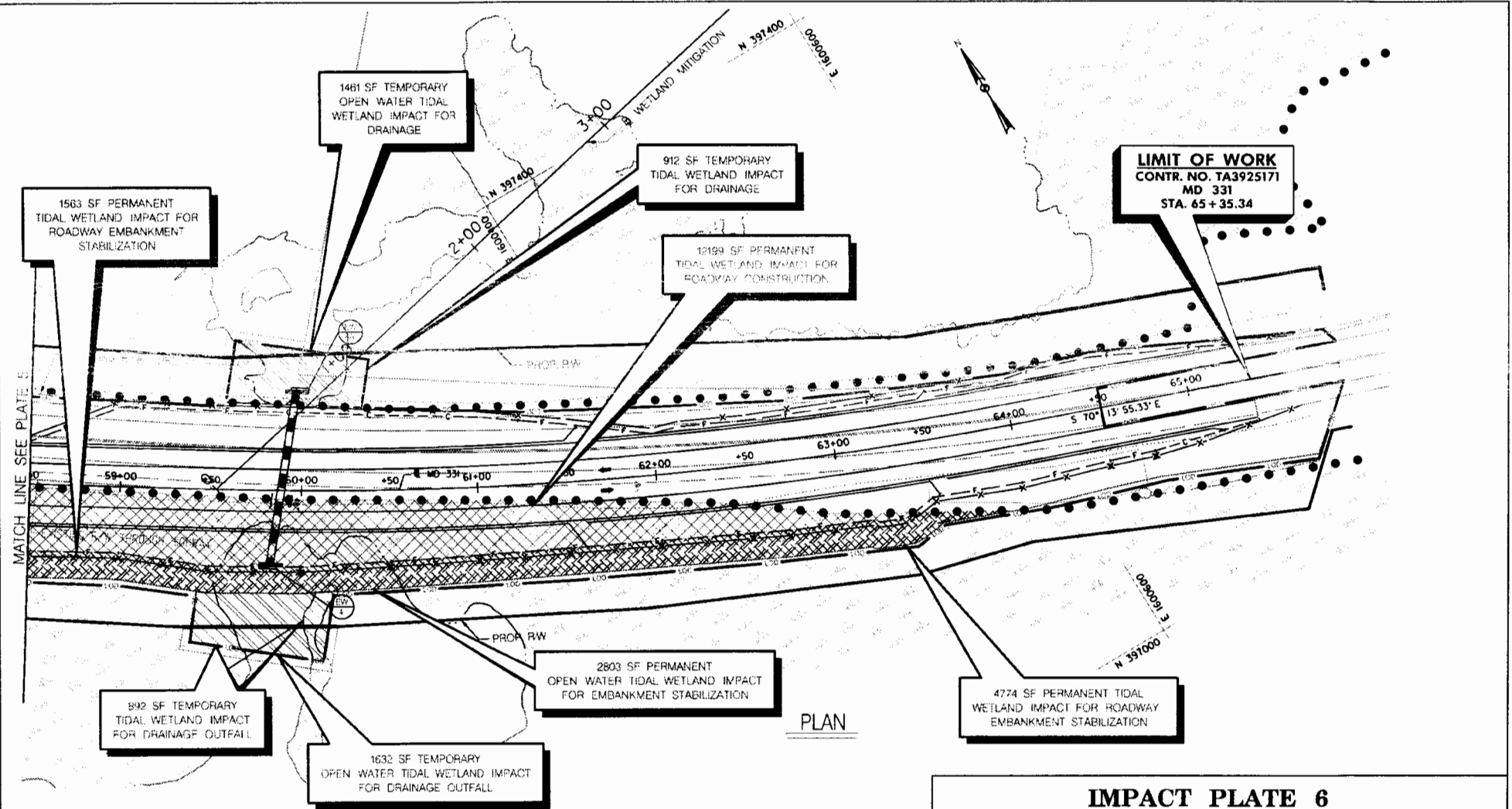


PLATE
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IMPACT PLATE 6

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
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 TALBOT & CAROLINE COUNTY, MD
 ENVIRONMENTAL IMPACT PLATES

DATE	0 40 80 160	PLATE
JULY 2013	SCALE IN FEET	6 OF 8

IMPACTS

TIDAL WETLAND:

	Total (sf)
PERMANENT =	18536
TEMPORARY =	1804

OPEN WATER TIDAL WETLANDS:

PERMANENT =	2803
TEMPORARY =	3093

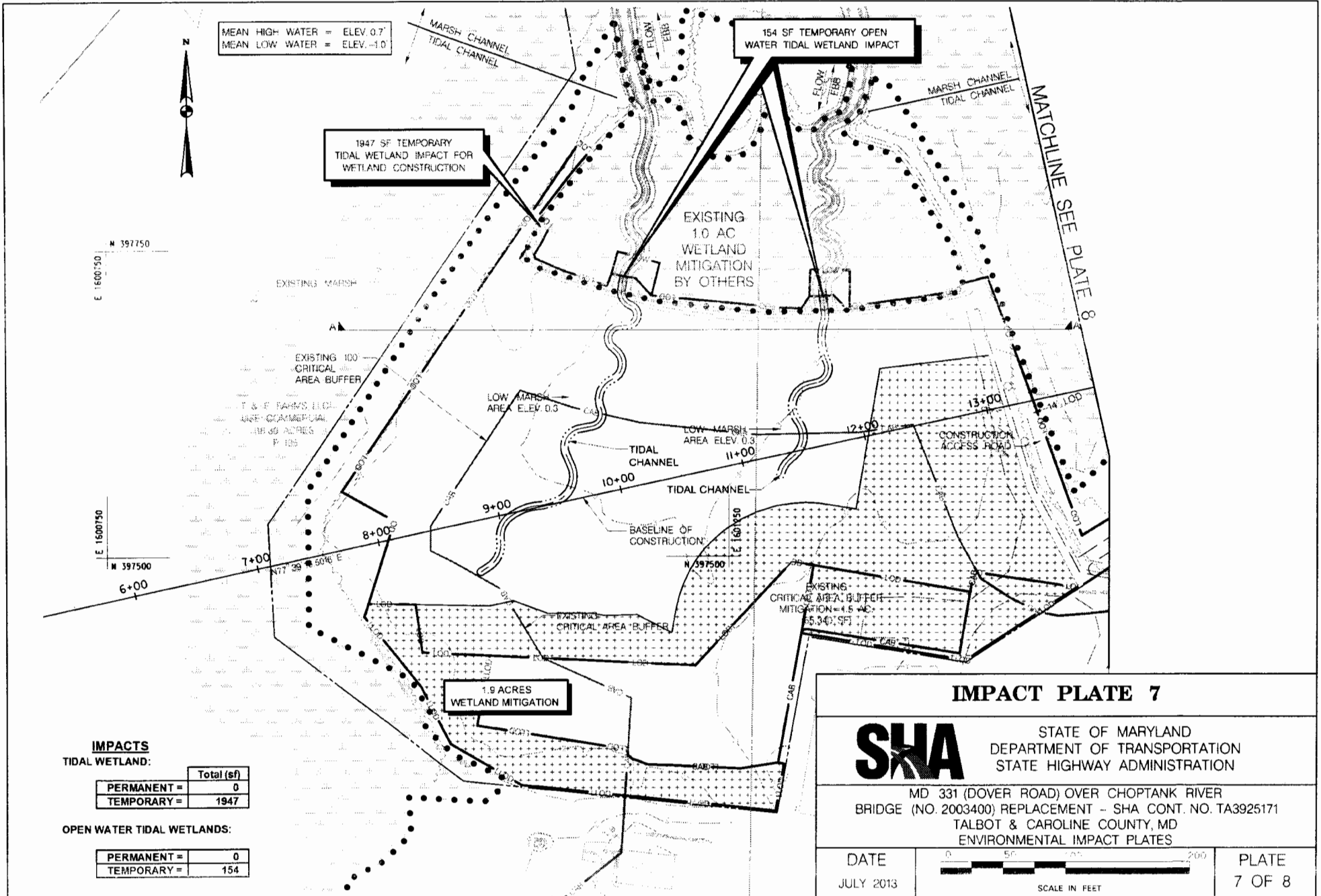
DETAIL - BREAKDOWN (INCLUDED IN WETLAND IMPACT TOTALS):

FILL FOR ROADWAY:

PERMANENT =	12199
TEMPORARY =	0

FILL FOR ROADWAY EMBANKMENT STABILIZATION:

PERMANENT =	6337
TEMPORARY =	0



IMPACT PLATE 7



STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

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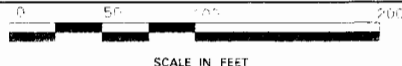


PLATE
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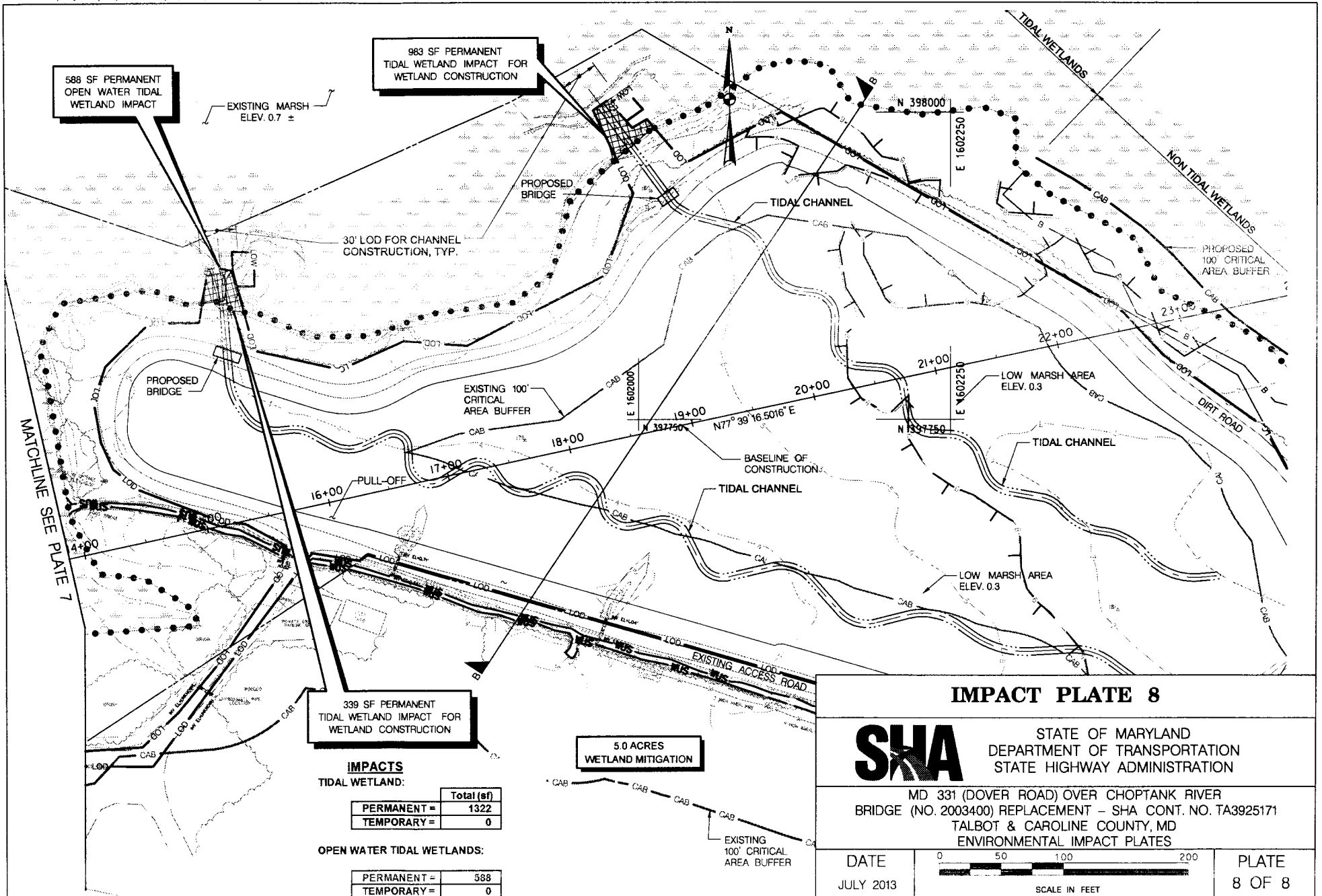
IMPACTS

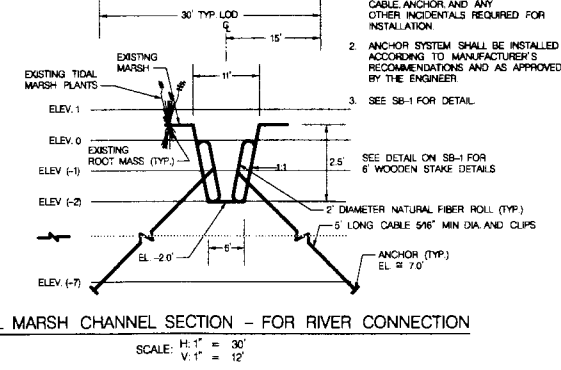
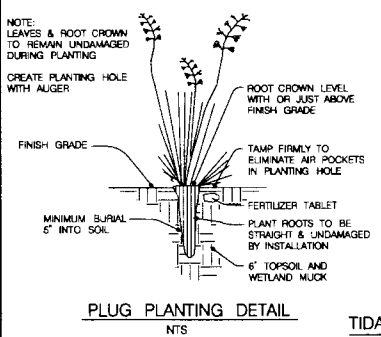
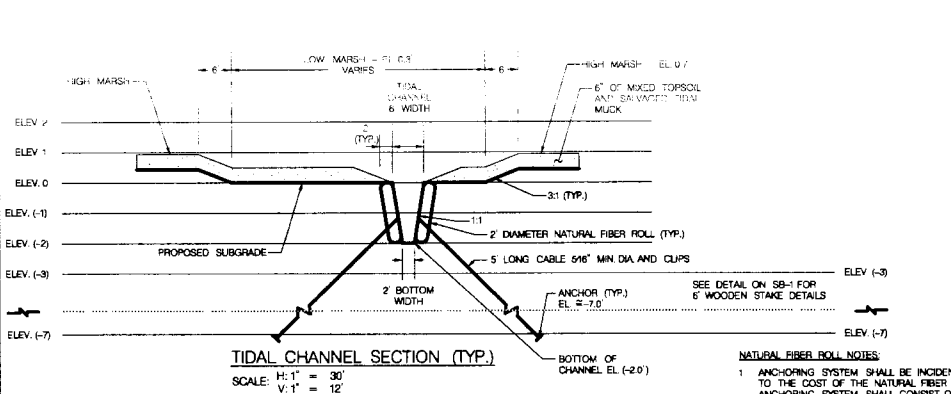
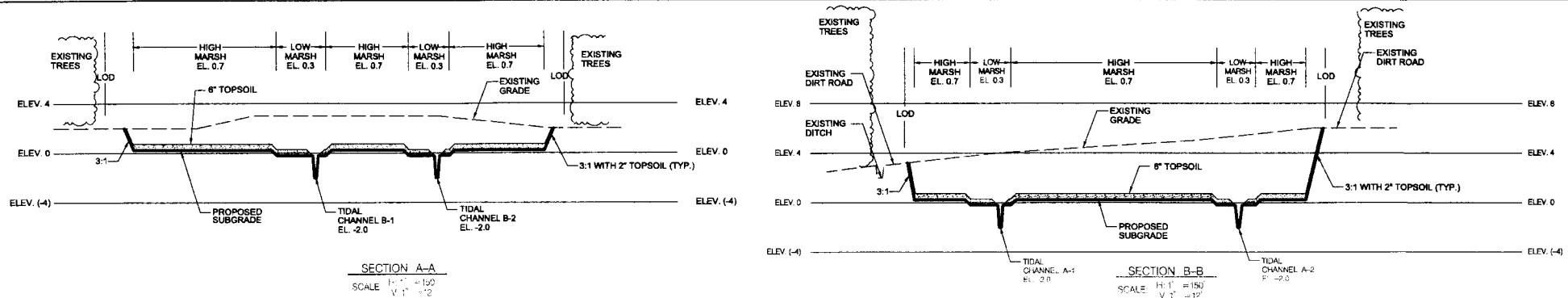
TIDAL WETLAND:

	Total (sf)
PERMANENT =	0
TEMPORARY =	1947

OPEN WATER TIDAL WETLANDS:

PERMANENT =	0
TEMPORARY =	154





	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	ON CENTER SPACING
LOW MARSH	0	PONTEDERA CORDATA	POCARELWEEED	2 INCH PLUG	CELLS	3 FEET
	0	PELTANDRA VIRGINICA	ARROW ARUM	2 INCH PLUG	CELLS	3 FEET
	0	RUMEX VERTICILLATUS	SWAMP DOCK	2 INCH PLUG	CELLS	3 FEET
	0	TOTAL				
HIGH MARSH	0	HIBISCUS MOSCHELITOR	SWAMP ROSE MALLOW	2 INCH PLUG	CELLS	3 FEET
	0	PELTANDRA VIRGINICA	ARROW ARUM	2 INCH PLUG	CELLS	3 FEET
	0	RUMEX VERTICILLATUS	SWAMP DOCK	2 INCH PLUG	CELLS	3 FEET
	0	TOTAL				
SIDE SLOPES	0	MORELLA CERIFERA	WAX MYRTLE	18" HT.	#1 CONT.	MINIMUM 4' TO MAXIMUM 10' SPACING FOR NATURALIZED APPEARANCE

- PLANTING NOTES:**
- PLANS ARE FOR WETLAND MITIGATION PURPOSES ONLY. AS-BUILT CONDITIONS MAY VARY. CONTRACTOR SHALL VERIFY FIELD CONDITION AND INFORM THE ENGINEER DESIGNATED SPECIALIST AND EPD (SHA'S ENVIRONMENTAL PROGRAMS DIVISION) OF ANY DISCREPANCIES OR POTENTIAL PROBLEMS PRIOR TO PERFORMING WORK. DIMENSIONS SHALL BE FIELD VERIFIED BETWEEN THE CONTRACTOR AND THE ENGINEER REGARDING DEVIATION FROM DIMENSIONS AS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF WORK.
 - CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO ANY PLANT INSTALLATION. THE CONTRACTOR SHALL CONTACT MISS UTILITY (1-800-257-7777) A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK.
 - AREAS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE HIGHWAY ADMINISTRATION.
 - ANY REQUEST TO SUBSTITUTE PLANTS OF DIFFERENT SPECIES, CULTIVARS, SIZE, GROWTH HABIT, OR PLANTING STOCK TYPE SHALL BE SUBMITTED IN WRITING TO THE ENGINEER DESIGNATED SPECIALIST AND EPD AS A SUBSTITUTION REQUEST. SUBSTITUTION WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE DESIGNATED SPECIALIST OR EPD.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING PLANT MATERIAL IN THE APPROPRIATE SEASON FOR EACH PLANT TYPE. THE PLANTING SEASON FOR HERBACEOUS PLANTS SHALL BE MARCH 1ST THROUGH JUNE 30TH.
 - UNHEALTHY PLANT STOCK AND PLANTS FROM COLD STORAGE ARE UNACCEPTABLE AND WILL BE REJECTED. THE PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE FROM DEFECTS, DECAY, PLANT DISEASE, INSECT PEST EGGS, AND ALL FORMS OF INFESTATIONS.
 - THE CONTRACTOR SHALL NOTIFY THE DESIGNATED SPECIALIST AND EPD A MINIMUM OF 5 DAYS PRIOR TO COMMENCING PLANTING OPERATIONS. ALL PLANTING SHALL BE CONDUCTED AT LOW TIDE, AND PLANTS SHALL BE INSTALLED IN THE DRY EBB CONDITION.
 - THE FINAL LOCATION OF PLANT MATERIAL AND PLANTING ZONES WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER DESIGNATED SPECIALIST AND EPD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLANTING PLANT MATERIAL INSTALLED WITHOUT THE APPROVAL OF THE DESIGNATED SPECIALIST ALLOW SITE TO FLUSH AND SETTLE FOR 1 WEEK PRIOR TO PLANTING OR AS DIRECTED BY THE DESIGNATED SPECIALIST.
 - PLANT MATERIAL SHALL NOT BE MULCHED WITH ANY TYPE OF MULCH.
 - CONTRACTOR SHALL WATER EACH PLANT IMMEDIATELY AFTER PLANTING WITH A MINIMUM QUANTITY OF 1 QUART PER PLUG OR SHRUB, OR AS DIRECTED BY THE DESIGNATED SPECIALIST.
 - NO VEHICULAR TRAFFIC SHALL BE ALLOWED OUTSIDE THE L.O.D.
 - DISTURBED AREAS NOT OTHERWISE INDICATED FOR SPECIFIC VEGETATION OR GAB SHALL RECEIVE TURFGRASS ESTABLISHMENT.
 - EXCAVATION**
ALL EXCAVATION SHALL BE PAID AS CLASS 1 EXCAVATION.
 - SEED MIXES**
A. SHA UPLAND MEADOW ESTABLISHMENT - SECTION 707.03.08 (STANDARD SPECIFICATIONS)
B. SHA WET MEADOW ESTABLISHMENT - SECTION 707.03.09 (STANDARD SPECIFICATIONS)

WETLAND MITIGATION DETAILS



STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

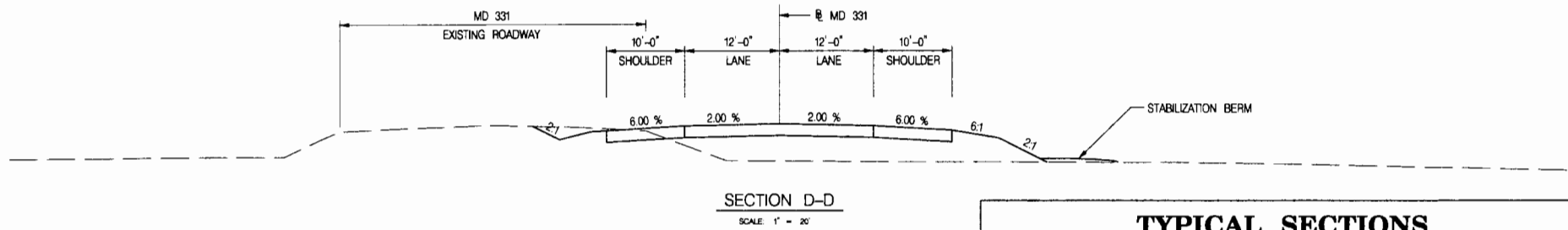
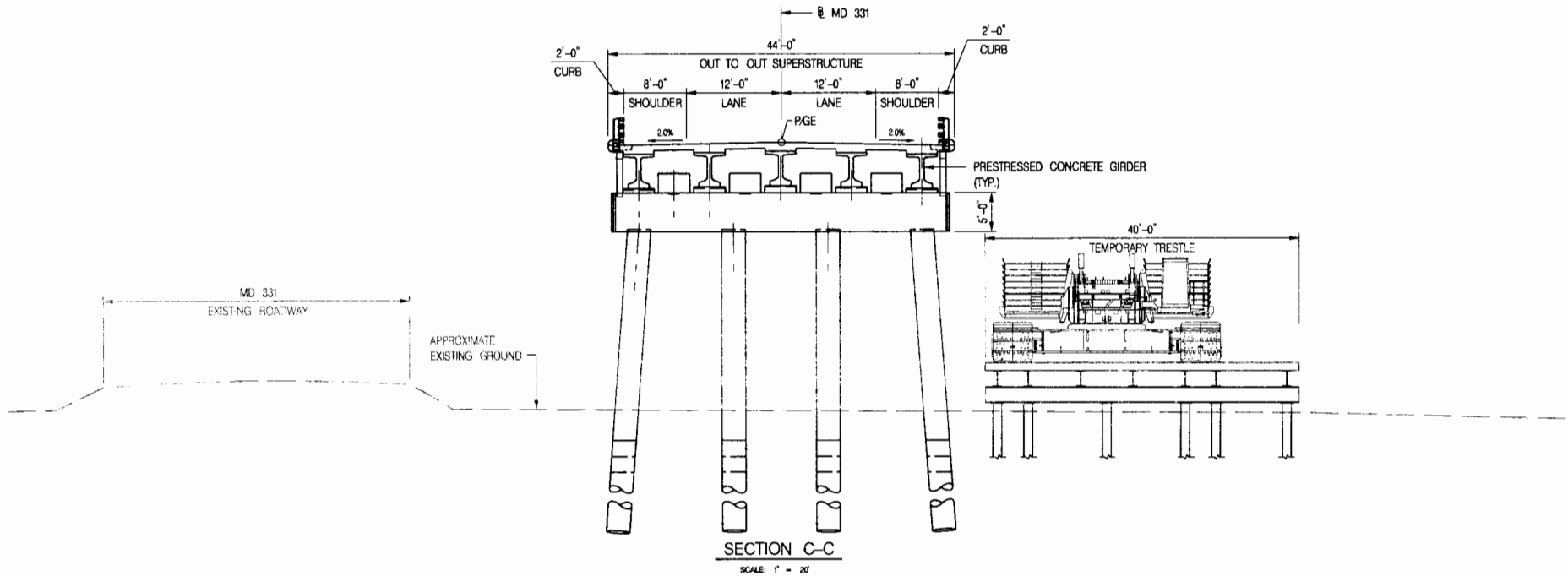
MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
 BRIDGE (NO. 2003400) REPLACEMENT - SHA CONT. NO. TA3925171
 TALBOT & CAROLINE COUNTY, MD

DATE
 JULY 2013



SCALE IN FEET

- MARSH CHANNEL NOTES:**
- EXCAVATED MATERIAL SHALL BE PLACED IN TOPSOIL STOCKPILE OR WITHIN NEW MITIGATION AREA AS DIRECTED BY THE ENGINEER.
 - MEANS AND METHODS OF MARSH ACCESS SHALL BE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE MEASURED.
 - NO SEEDING OF MARSH CHANNEL BOTTOM WILL BE REQUIRED.



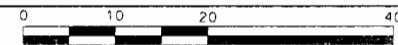
TYPICAL SECTIONS



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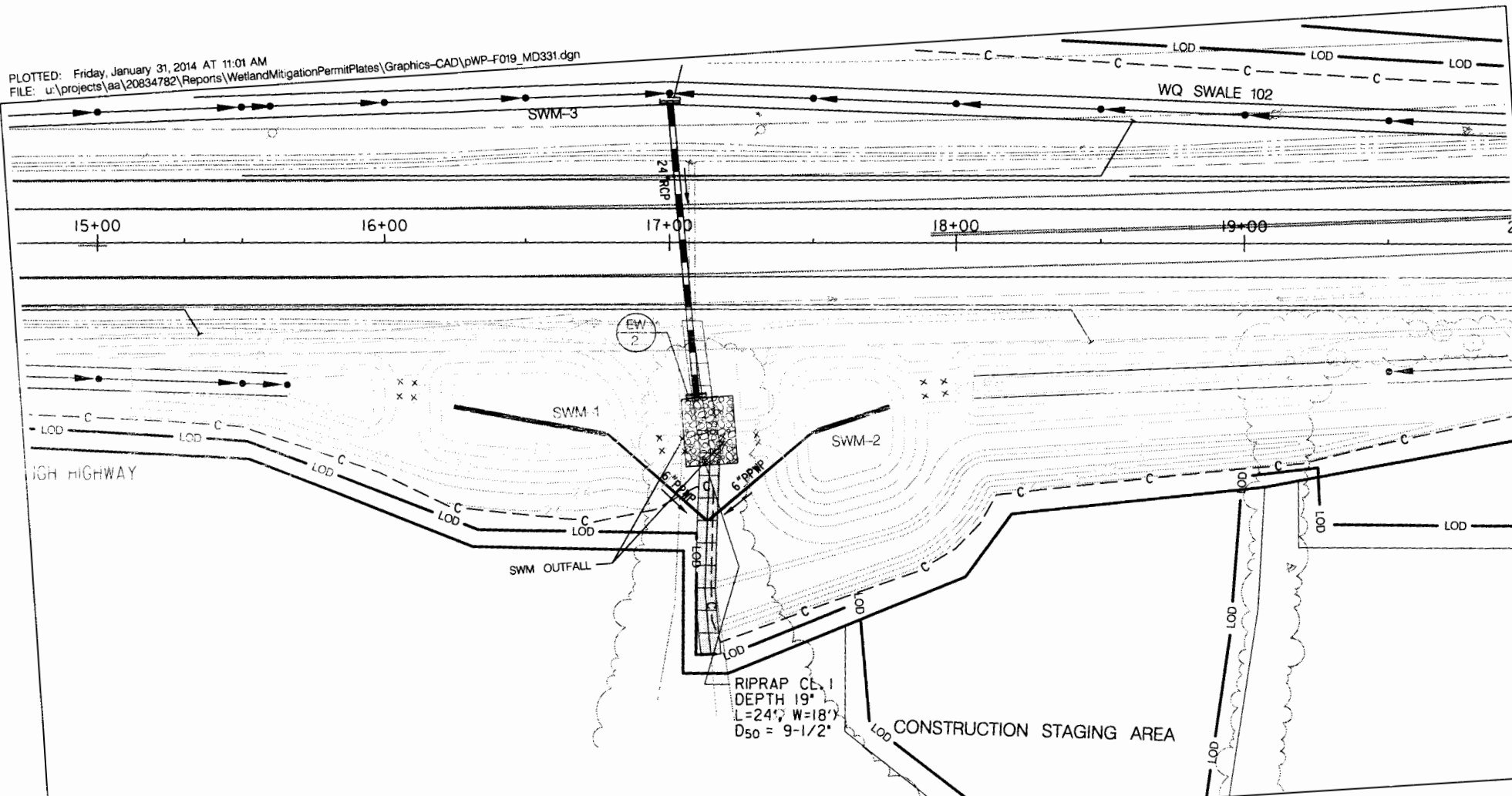
MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
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SCALE IN FEET

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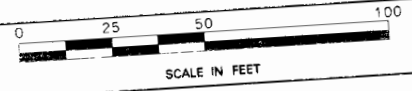
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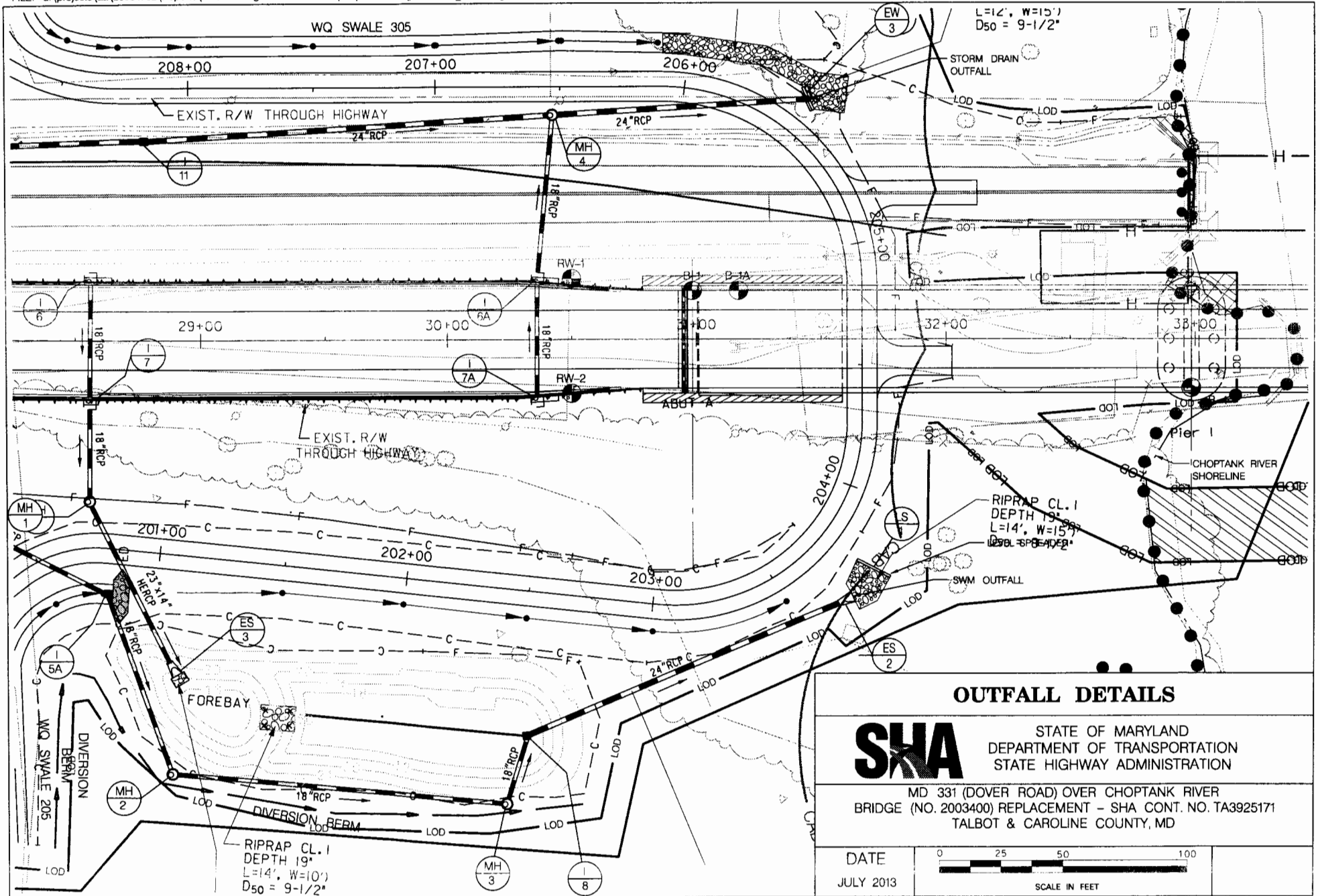


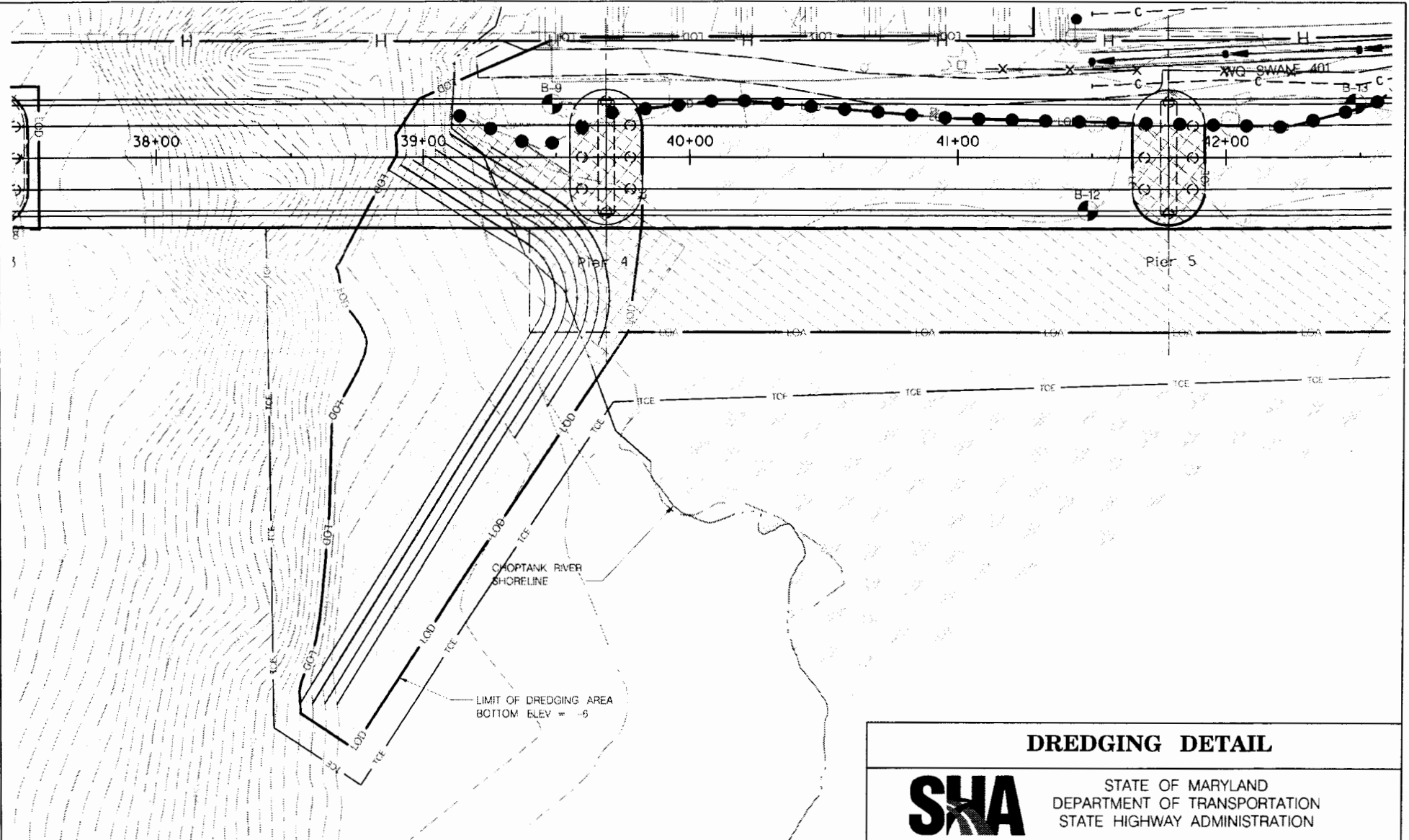
STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION

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- NOTES:
1. THE CONTRACTOR SHALL DREDGE THE SMALLEST AREA POSSIBLE WITHIN THE DESIGNATED DREDGING AREA TO ACCOMMODATE THE REQUIRED EQUIPMENT BARGE(S). ADEQUATE PRECAUTIONS SHOULD BE TAKEN TO AVOID DISTURBANCE OUTSIDE THE DESIGNATED DREDGING AREA. DREDGING TO BE PERFORMED WITHIN THE SPECIFIED AREA ONLY.
 2. ALL DREDGED MATERIALS SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

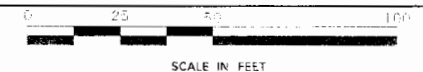
DREDGING DETAIL



STATE OF MARYLAND
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MD 331 (DOVER ROAD) OVER CHOPTANK RIVER
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Sequence of Construction

STAGE 1

1. CONSTRUCT DETOUR ROAD, TEMPORARY PAVEMENT MARKINGS, TEMPORARY DRIVEWAY CONNECTIONS AND TEMPORARY DRAINAGE.
2. MAINTAIN EXISTING TRAVEL LANES ON MD 331

STAGE 2

1. SHIFT EXISTING TRAFFIC TO THE PREVIOUSLY CONSTRUCTED DETOUR ROADWAY. MAINTAIN ONE 12' LANE IN EACH DIRECTION.
2. DEMOLISH EXISTING PAVEMENT FOR MD 331 BUT ACCESS TO BRIDGE TENDER HOUSE AND PARKING SHALL BE MAINTAINED DURING CONSTRUCTION OF THE NEW ROAD.
3. CONSTRUCT PROPOSED MD 331 ROADWAY, THE PROPOSED DRAINAGE SYSTEM, THE DRIVEWAY AND THE FARMER ACCESS ROAD ON THE SOUTH SIDE.
4. COMPLETE CONSTRUCTION FOR THE PROPOSED BRIDGE.

STAGE 3

1. SHIFT EXISTING TRAFFIC TO THE PREVIOUSLY CONSTRUCTED MD 331 ROADWAY AND BRIDGE.
2. DEMOLISH PART OF THE DETOUR ROAD PAVEMENT.
3. COMPLETE CONSTRUCTION OF THE DRIVEWAY, THE FARMER ACCESS ROAD AND PROPOSED DRAINAGE SYSTEM ON THE NORTH SIDE OF MD 331.
4. COMPLETE CONSTRUCTION OF THE PARKING LOT AT STA. 55+00 ON MD 331.

PLOTTED: Friday, January 31, 2014, AT 11:01 AM
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