



U.S. Army Corps
of Engineers
Baltimore District

Public Notice

In Reply to Application Number
CENAB-OP-RMN (MD SHA/FMIS # SO192A21/MD 413 @ Tull's Corner
Road/Intersection Improvements) 2016-60360-M24

PN 16- 36

Comment Period: June 7, 2016 to July 6, 2016

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 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: Nontidal wetlands adjacent to Colbourn Creek, near Marion Station, Somerset County, Maryland

PROPOSED WORK: The Maryland State Highway Administration (SHA) proposes, in accordance with the attached plans, to construct acceleration and deceleration lanes along MD 413 at the Tulls Corner Road intersection. The project will also include bicycle pocket lanes consistent with SHA's current bicycle policy within construction limits. Existing roadside palustrine emergent drainage features will be relocated and replaced in-kind. The roadway improvement project will result in a total of 30,214 square feet (SF) of permanent impacts to palustrine emergent wetlands (PEM) and 2,745 SF of permanent impacts to palustrine forested wetlands (PFO). The applicant has proposed relocating the existing roadside drainage feature containing palustrine emergent wetlands as in-kind mitigation for project impacts, in addition to planting hydrophytic vegetation. SHA proposes to mitigate for palustrine forested impacts (2,745 SF) by planting hydrophytic trees and shrubs within a swale in an adjacent MDOT right-of-way. The wetland mitigation enhancement area is 11,648 SF of area to be planted in trees and shrubs (PFO), 22,137 SF of wet meadow establishment (PEM) seeding, totalling 33,785 SF.

The purpose of the proposed interchange is to improve safety at the MD 413 and Tulls Corner Road intersection. Vehicular crashes are frequent at this intersection, and bicycle lanes will allow for increased safety.

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, Regulatory Branch, 10 S. Howard Street, Baltimore, Maryland 21201, 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 effect Essential Fish Habitat (EFH).

The project site is adjacent to EFH as described under MSFCMA for windowpane flounder (*Scophthalmus aquosus*) juvenile and adult; blue fish (*Pomatomus saltatrix*) juvenile and adult; summer flounder (*Paralichthys dentatus*) juvenile and adult; and egg, larvae, juvenile and adult stages of red drum (*Sciaenops ocellatus*), king mackerel (*Scomberomorus cavalla*), spanish mackerel (*Scomberomorus maculatus*), and cobia (*Rachycentron canadum*), all managed species under the MSFCMA.

The project site lies within EFH for juvenile life stages of bluefish and juvenile and adult life stages of summer flounder. The project has the potential to adversely affect EFH or the species of concern by loss of spawning, nursery, forage and/or shelter habitat as described under the MSFCMA for the species and life stages identified above. The Baltimore District 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.

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, Wetlands and Waterways Program, 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 Maryland Coastal Zone Management (CZM) program. By this public notice, we are requesting the State's concurrence or objection to the applicant's consistency certification statement. Public comments relating to consistency must be received by the Maryland Department of the Environment, Wetlands and Waterways Program, Montgomery Park Business Center, 1800 Washington Boulevard, Suite 430, Baltimore, Maryland

21230-1708 within the comment period as specified above to receive consideration. MDE has a statutory limit of 6 months to concur or object to the applicant's 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 may affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. The Delmarva fox squirrel is known to occur on or within the immediate vicinity of the project site. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

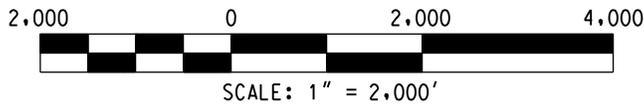
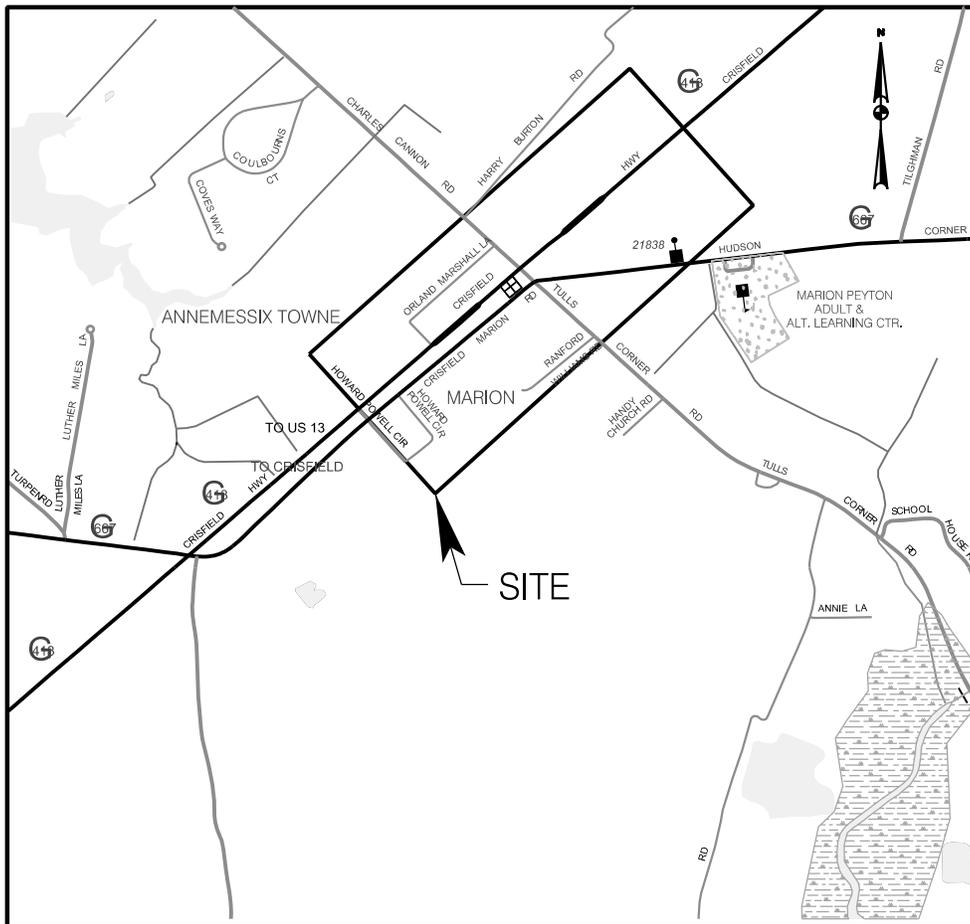
Review of the latest published version of the National Register of Historic Places indicates that no registered properties listed as eligible for inclusion therein are located at the site of the proposed work. Currently unknown archeological, scientific, prehistoric, or historical data may be lost or 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], Regulatory Branch, 10 S. Howard Street, Baltimore, Maryland 21201, 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



SHEET 1 OF 17



DATE:
APRIL 2016
SCALE:
1" = 2,000'
DRAWN BY:
AAW
FOR USACE
USE

STATE OF MARYLAND-DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF ENVIRONMENTAL DESIGN
MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130
VICINITY MAP

PLOTTED: Monday, April 11, 2016 AT 01:55 PM
 BY: - Division:
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LEGEND

PROPOSED MEDIAN BARRIER	
ELECTRICAL HAND BOX - SIGNALS	
FLOW LINE	
STATE, COUNTY OR CITY LINES	
PROPOSED TRAFFIC BARRIER	
EXISTING TRAFFIC BARRIER	
PROPOSED FENCE LINE	
EXISTING FENCE LINE	
RIGHT OF WAY LINE	
EXISTING ROADWAY	
RAILROAD	
BASE LINE OR SURVEY LINE	
FIRE HYDRANT	
HISTORIC BOUNDARY	
PROPOSED PIPE / CULVERT	
EXISTING PIPE / CULVERT	
EXISTING DROP INLET	
UTILITY POLE	
WETLAND BOUNDARY	
WETLAND BUFFER	
HEDGE / TREE LINE	
BUSH / TREE	
CONIFEROUS TREE	
PROPOSED DRAINAGE SWALE	
PROPOSED WETLAND BYPASS DITCH	
CHESAPEAKE BAY CRITICAL AREA	
CBCA 100 FT BUFFER	
100 YEAR FEMA FLOODPLAIN	
PROPOSED FUTURE BIKE PATH	

LEGEND FOR IMPACT TYPES

	PERMANENT PEM NON-TIDAL WETLAND IMPACT		PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT
	PERMANENT PFO NON-TIDAL WETLAND IMPACT		

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TELEPHONE: (410) 316-7800
FAX: (410) 316-7818



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DATE:
APRIL 2016

SCALE:
N. T. S.

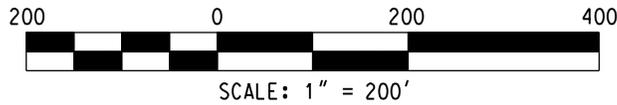
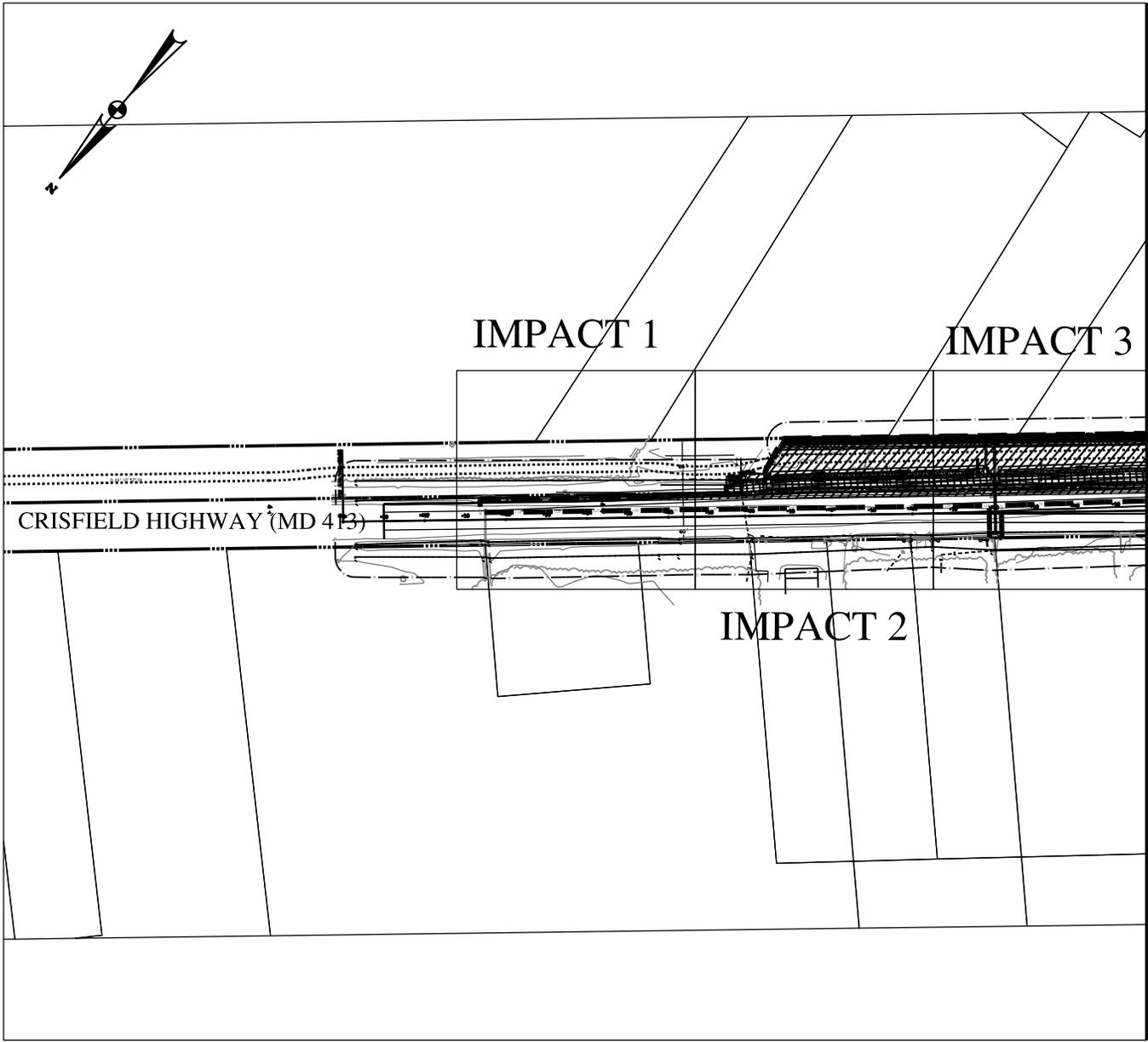
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LEGEND

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SHEET 3 OF 17

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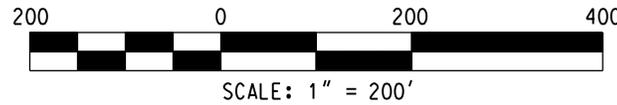
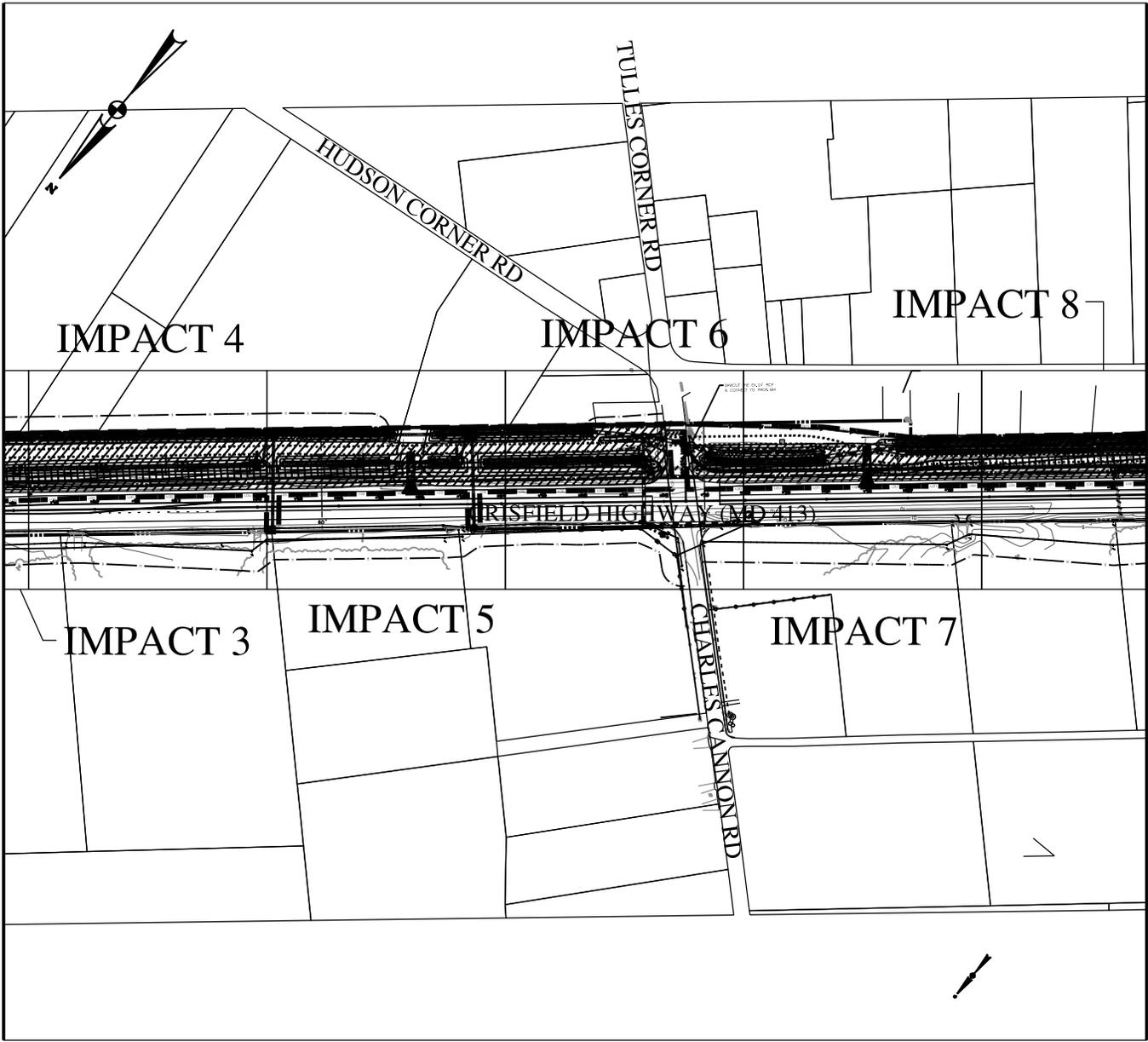
SHA
STATE OF MARYLAND
DEPARTMENT OF
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STATE HIGHWAY
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DATE:
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SCALE:
1" = 200'
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MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130
IMPACT LOCATION MAP 1

MATCHLINE AA (SEE SHEET 3 OF 17)

MATCHLINE BB (SEE SHEET 5 OF 17)



SHEET 4 OF 17

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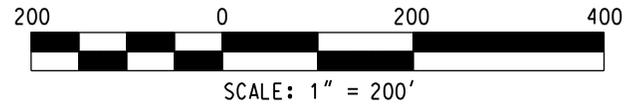
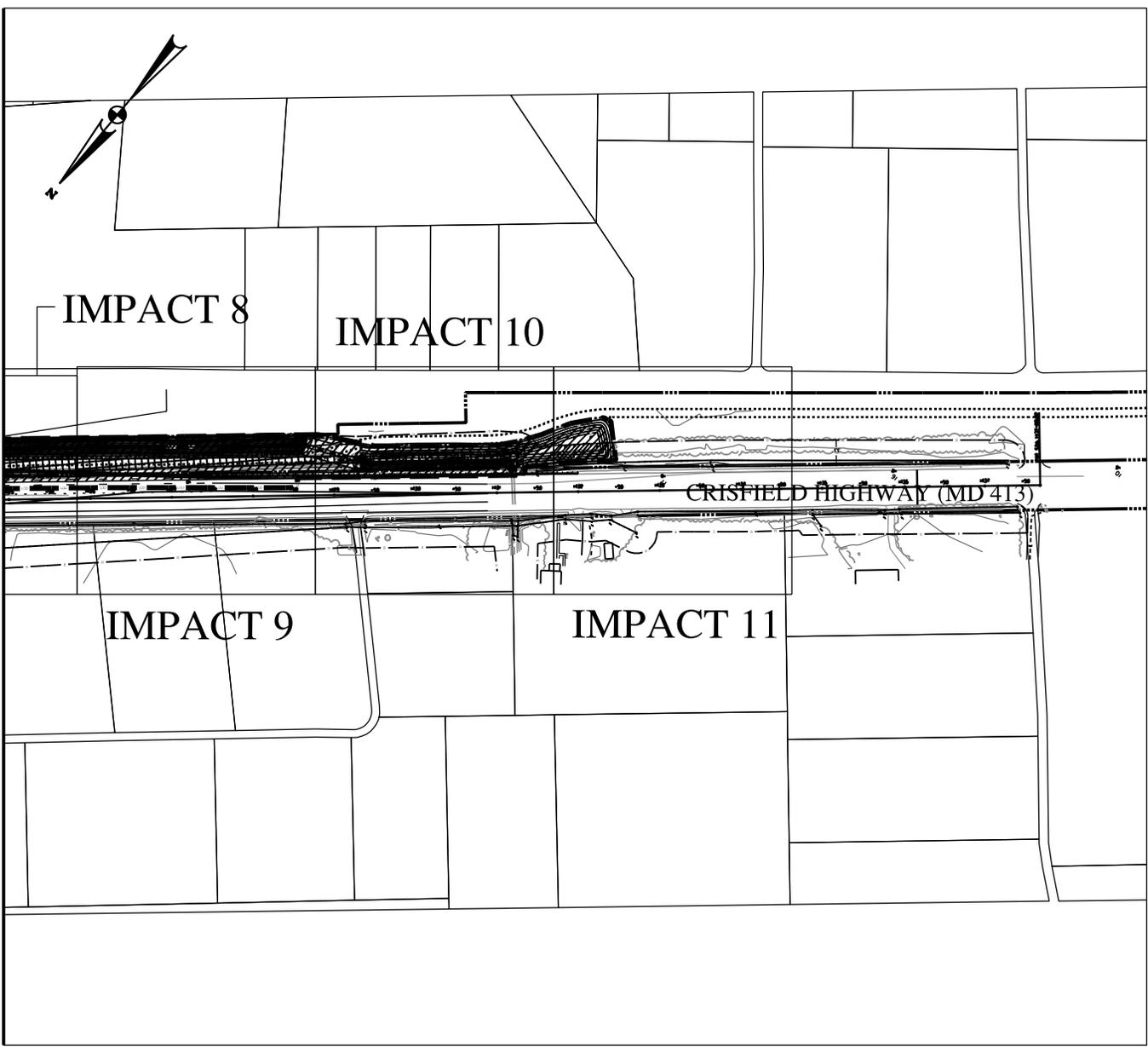
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AT TULLS CORNER ROAD, SOMERSET COUNTY
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IMPACT LOCATION MAP 2

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MATCHLINE BB (SEE SHEET 4 OF 17)



SHEET 5 OF 17

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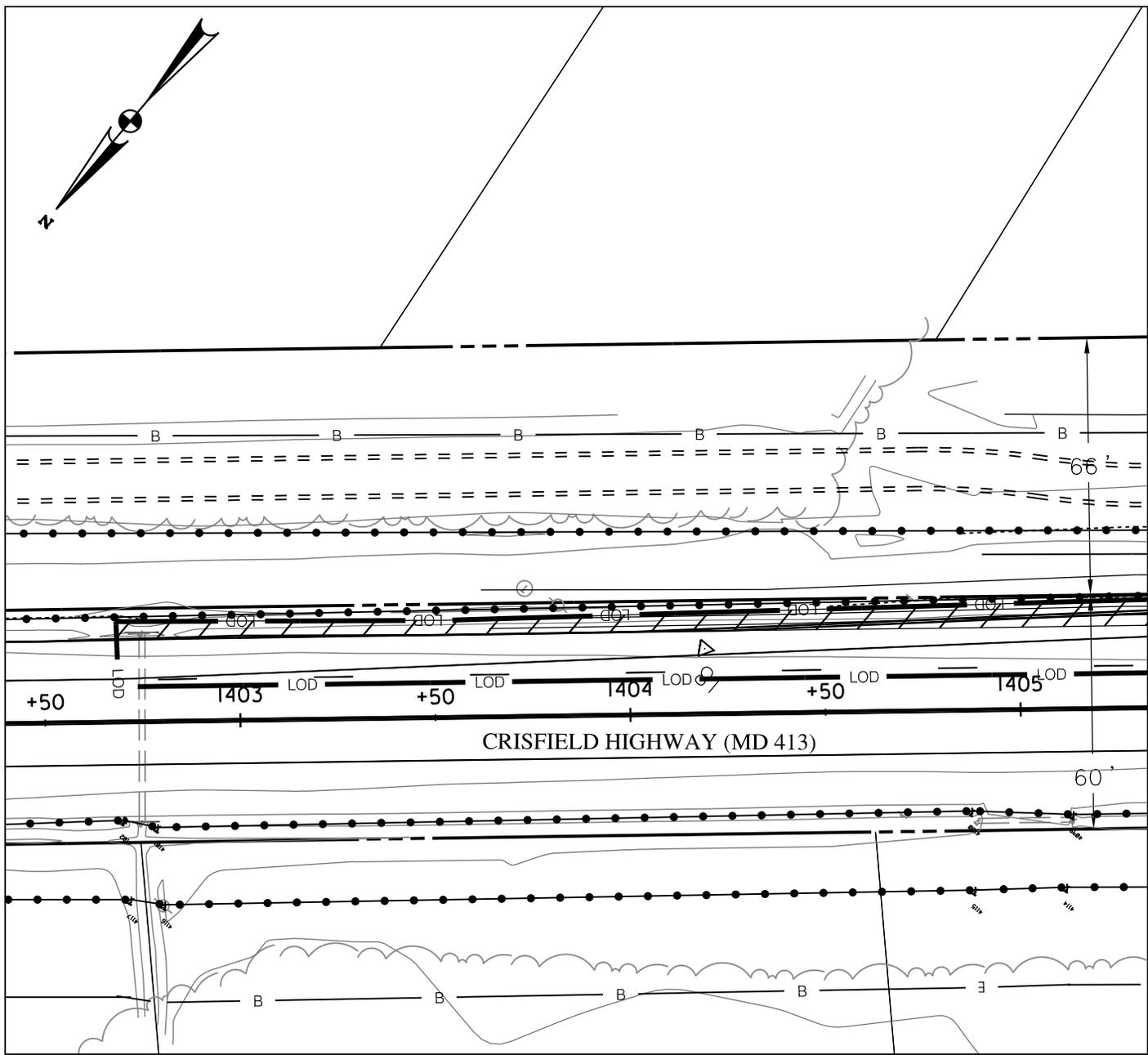
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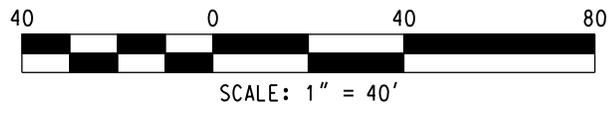
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AT TULLS CORNER ROAD, SOMERSET COUNTY
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IMPACT LOCATION MAP 3

MATCHLINE A (SEE SHEET 7 OF 17)



 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT
1,285 SF/0.029 AC



SHEET 6 OF 17

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DATE:
APRIL 2016

SCALE:
1" = 40'

DRAWN BY:
AAW

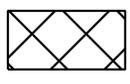
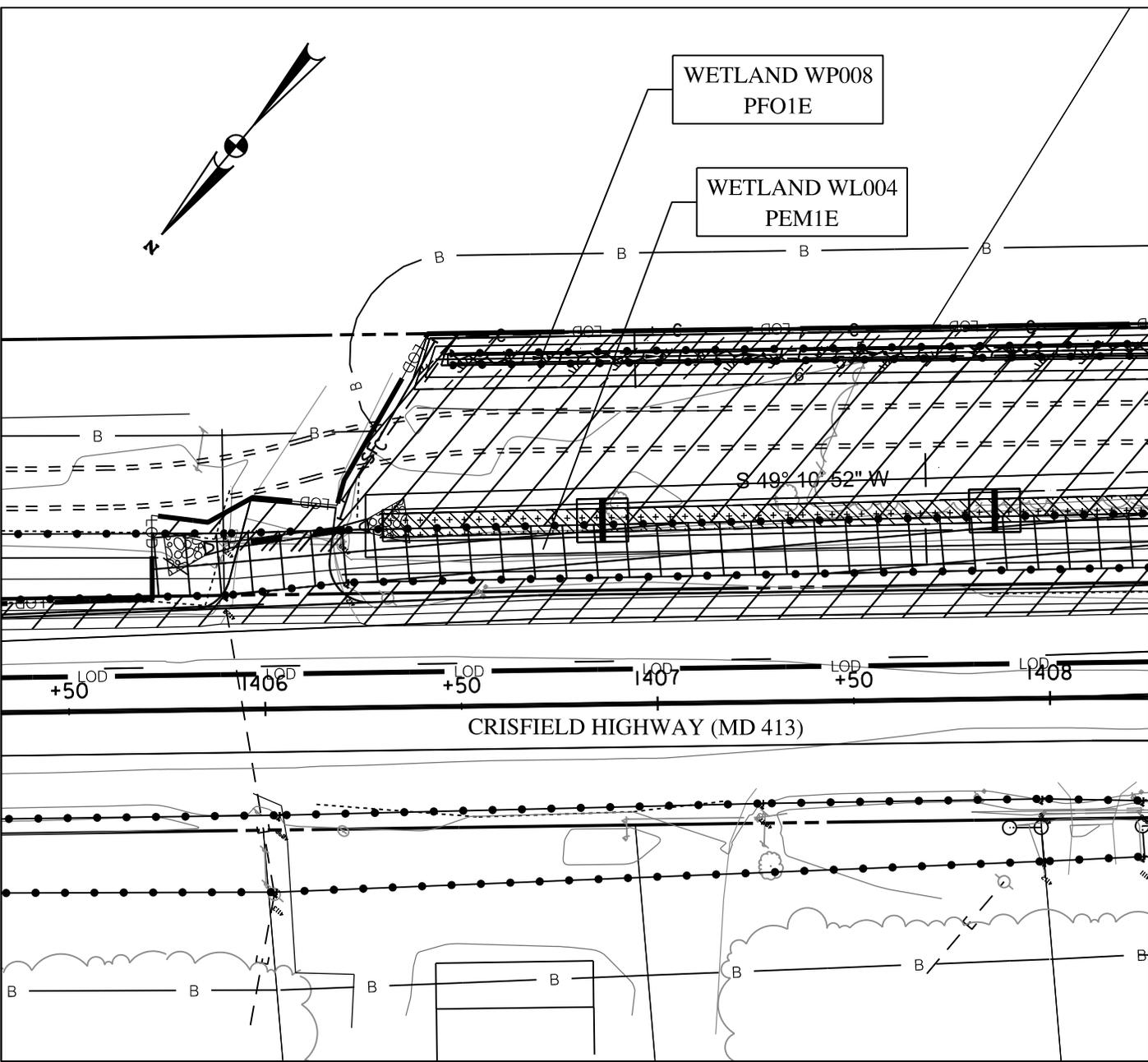
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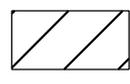
IMPACT 1

MATCHLINE A (SEE SHEET 6 OF 17)

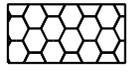
MATCHLINE B (SEE SHEET 8 OF 17)



PERMANENT PEM NON-TIDAL
WETLAND IMPACT
3,542 SF/0.081 AC



PERMANENT 25' NON-TIDAL
WETLAND BUFFER IMPACT
12,490 SF/0.287 AC



PERMANENT PFO NON-TIDAL
WETLAND IMPACT
534 SF/0.012 AC

NOTE: PEM AND PFO WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING. PFO WETLANDS WILL BE REPLANTED.



SCALE: 1" = 40'

SHEET 7 OF 17

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SCALE:
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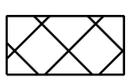
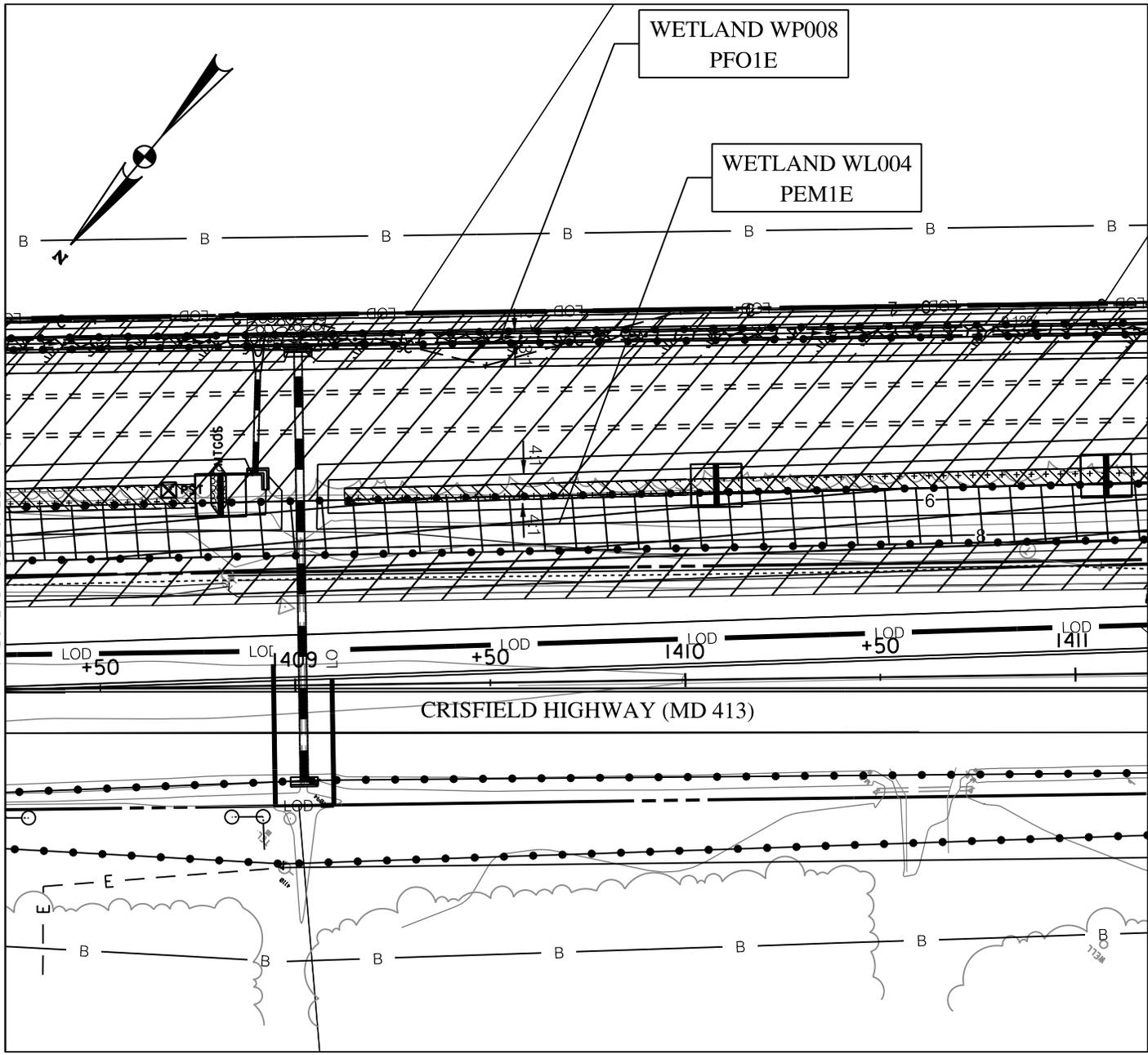
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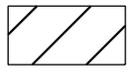
IMPACT 2

MATCHLINE B (SEE SHEET 7 OF 17)

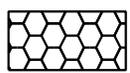
MATCHLINE C (SEE SHEET 9 OF 17)



PERMANENT PEM NON-TIDAL WETLAND IMPACT
4,129 SF/0.095 AC



PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT
16,574 SF/0.38 AC



PERMANENT PFO NON-TIDAL WETLAND IMPACT
878 SF/0.02 AC

NOTE: PEM AND PFO WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING. PFO WETLANDS WILL BE REPLANTED.



SCALE: 1" = 40'

SHEET 8 OF 17

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DATE:
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SCALE:
1" = 40'

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AT TULLS CORNER ROAD, SOMERSET COUNTY
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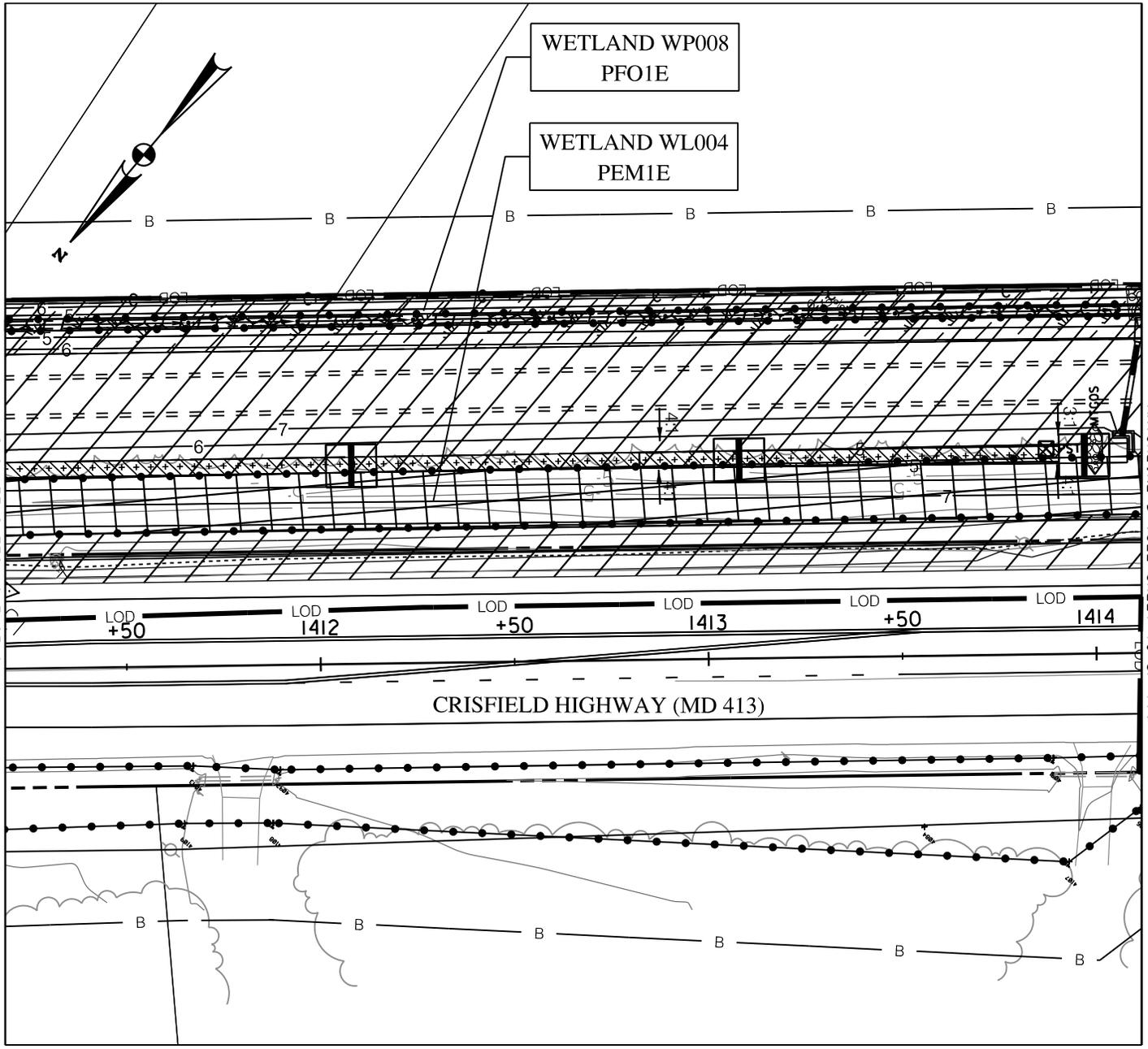
IMPACT 3

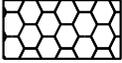
WETLAND WP008
PFO1E

WETLAND WL004
PEM1E

MATCHLINE C (SEE SHEET 8 OF 17)

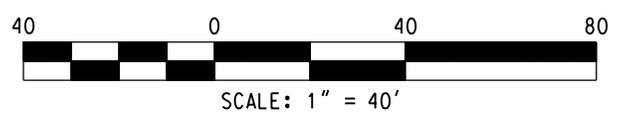
MATCHLINE D (SEE SHEET 10 OF 17)



-  PERMANENT PEM NON-TIDAL WETLAND IMPACT
4,294 SF/0.099 AC
-  PERMANENT PFO NON-TIDAL WETLAND IMPACT
877 SF/0.02 AC

-  PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT
16,294 SF/0.374 AC

NOTE: PEM AND PFO WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING. PFO WETLANDS WILL BE REPLANTED.



SHEET 9 OF 17

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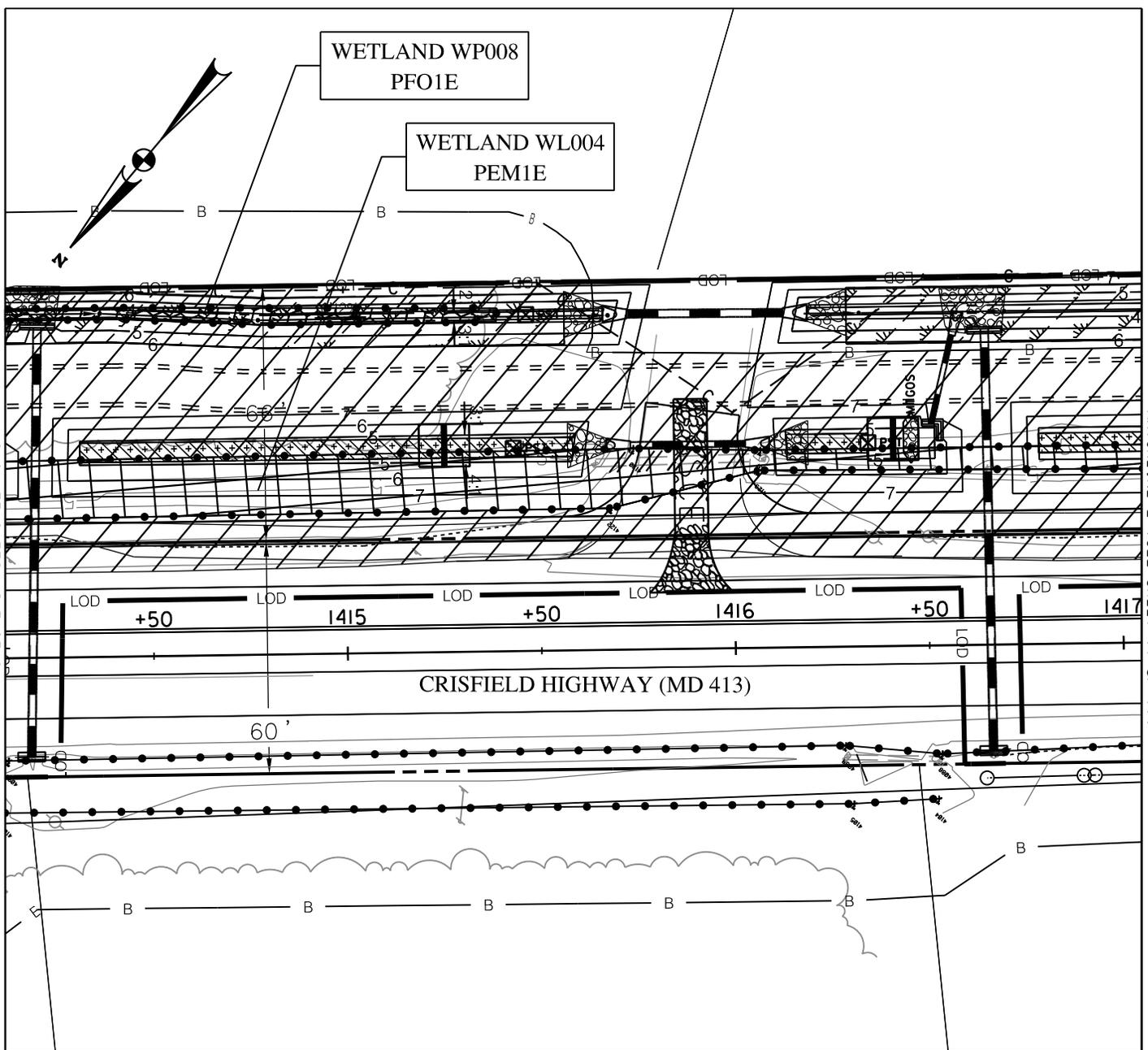
IMPACT 4

WETLAND WP008
PFO1E

WETLAND WL004
PEM1E

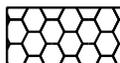
MATCHLINE D (SEE SHEET 9 OF 17)

MATCHLINE E (SEE SHEET 11 OF 17)

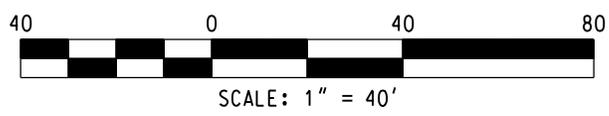


 PERMANENT PEM NON-TIDAL WETLAND IMPACT
3,315 SF/0.076 AC

 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT
14,765 SF/0.339 AC

 PERMANENT PFO NON-TIDAL WETLAND IMPACT
456 SF/0.01 AC

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SHEET 10 OF 17

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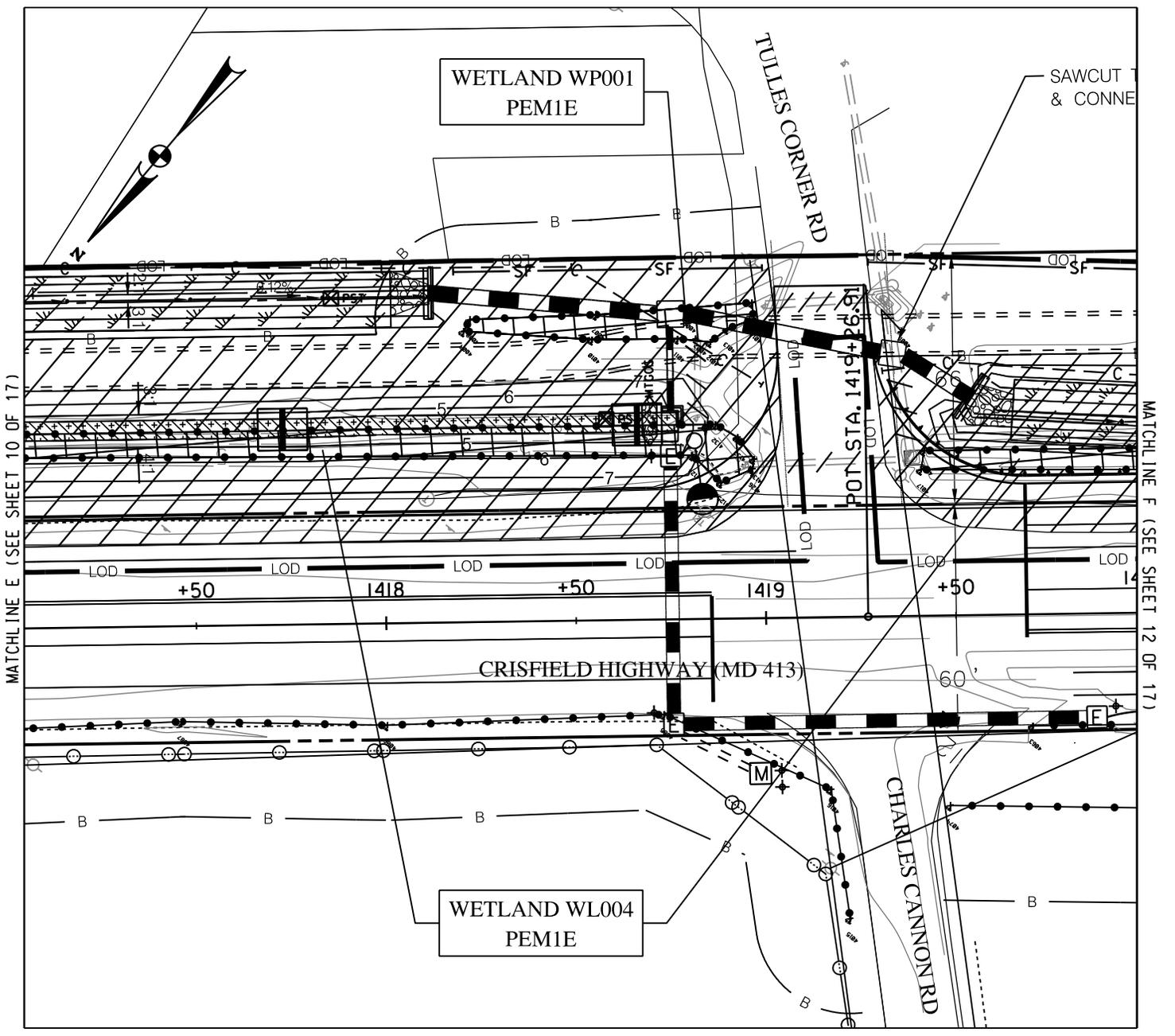
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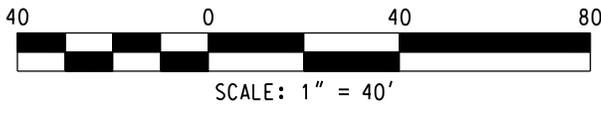
DATE:
APRIL 2016
SCALE:
1" = 40'
DRAWN BY:
AAW
FOR USAGE
USE

STATE OF MARYLAND-DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF ENVIRONMENTAL DESIGN
MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130
IMPACT 5



	PERMANENT PEM NON-TIDAL WETLAND IMPACT 2,192 SF/0.050 AC		PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT 13,426 SF/0.308 AC
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NOTE: PEM WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING.



SHEET 11 OF 17

PLOTTED: Monday, April 11, 2016 AT 01:55 PM
 BY: - Division:
 FILE: M:\2014\22146149\02\Drawings\NRM\Impact Plots\DWG-F011_MD413_USACE.dgn



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 STATE HIGHWAY ADMINISTRATION
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 MD 413 INTERSECTION IMPROVEMENTS
 AT TULLS CORNER ROAD, SOMERSET COUNTY
 CONTRACT # S01925130
IMPACT 6

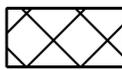
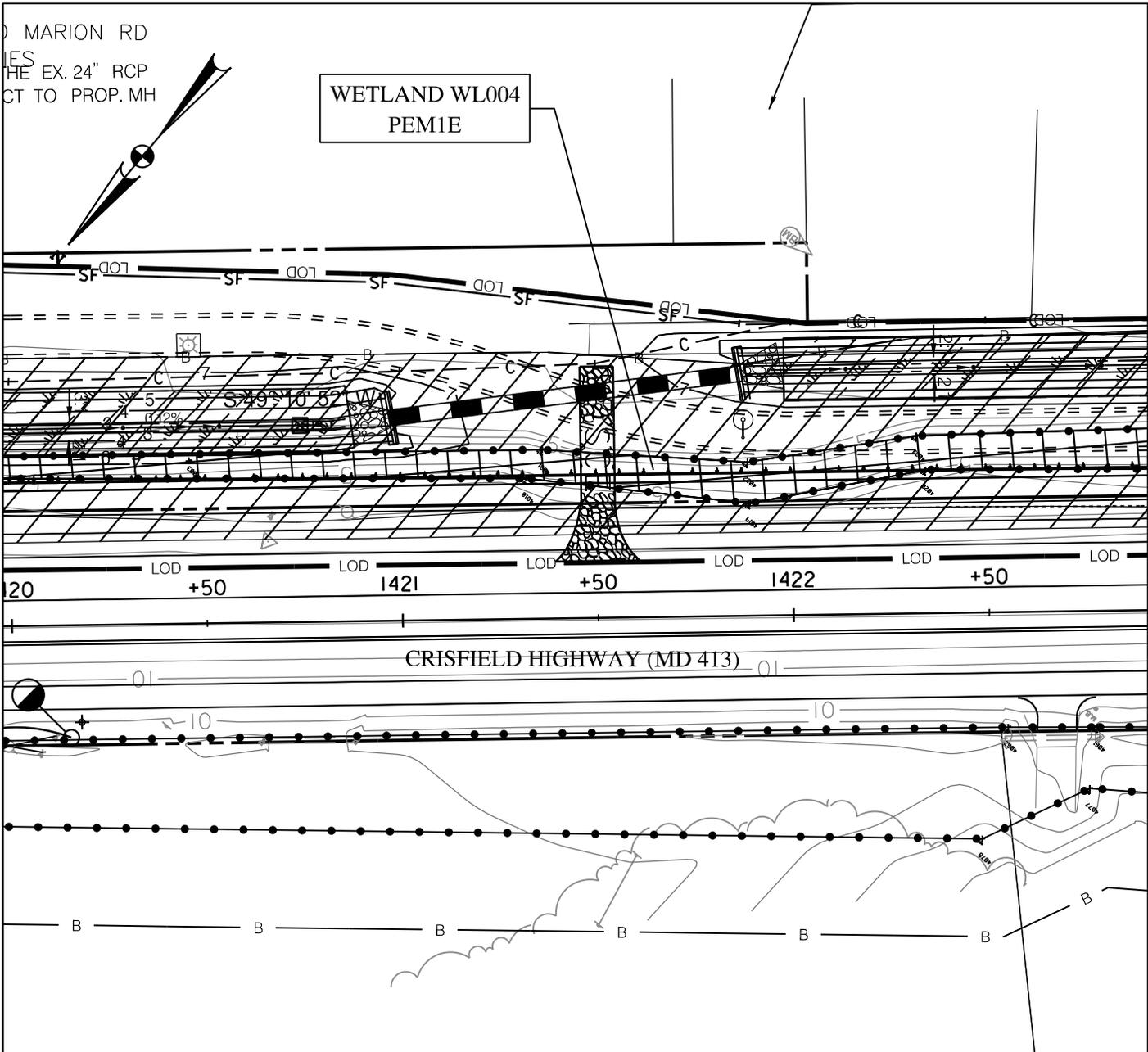
DATE: APRIL 2016
SCALE: 1" = 40'
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0 MARION RD
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THE EX. 24" RCP
CT TO PROP. MH

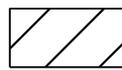
WETLAND WL004
PEM1E

MATCHLINE F (SEE SHEET 11 OF 17)

MATCHLINE G (SEE SHEET 13 OF 17)



PERMANENT PEM NON-TIDAL
WETLAND IMPACT
2,370 SF/0.054 AC



PERMANENT 25' NON-TIDAL
WETLAND BUFFER IMPACT
11,423 SF/0.262 AC

NOTE: PEM WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING.



SCALE: 1" = 40'

SHEET 12 OF 17



DATE:
APRIL 2016

SCALE:
1" = 40'

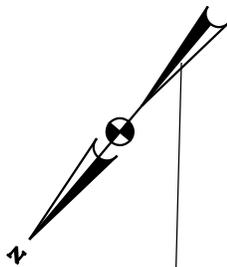
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AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130

IMPACT 7

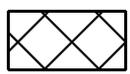
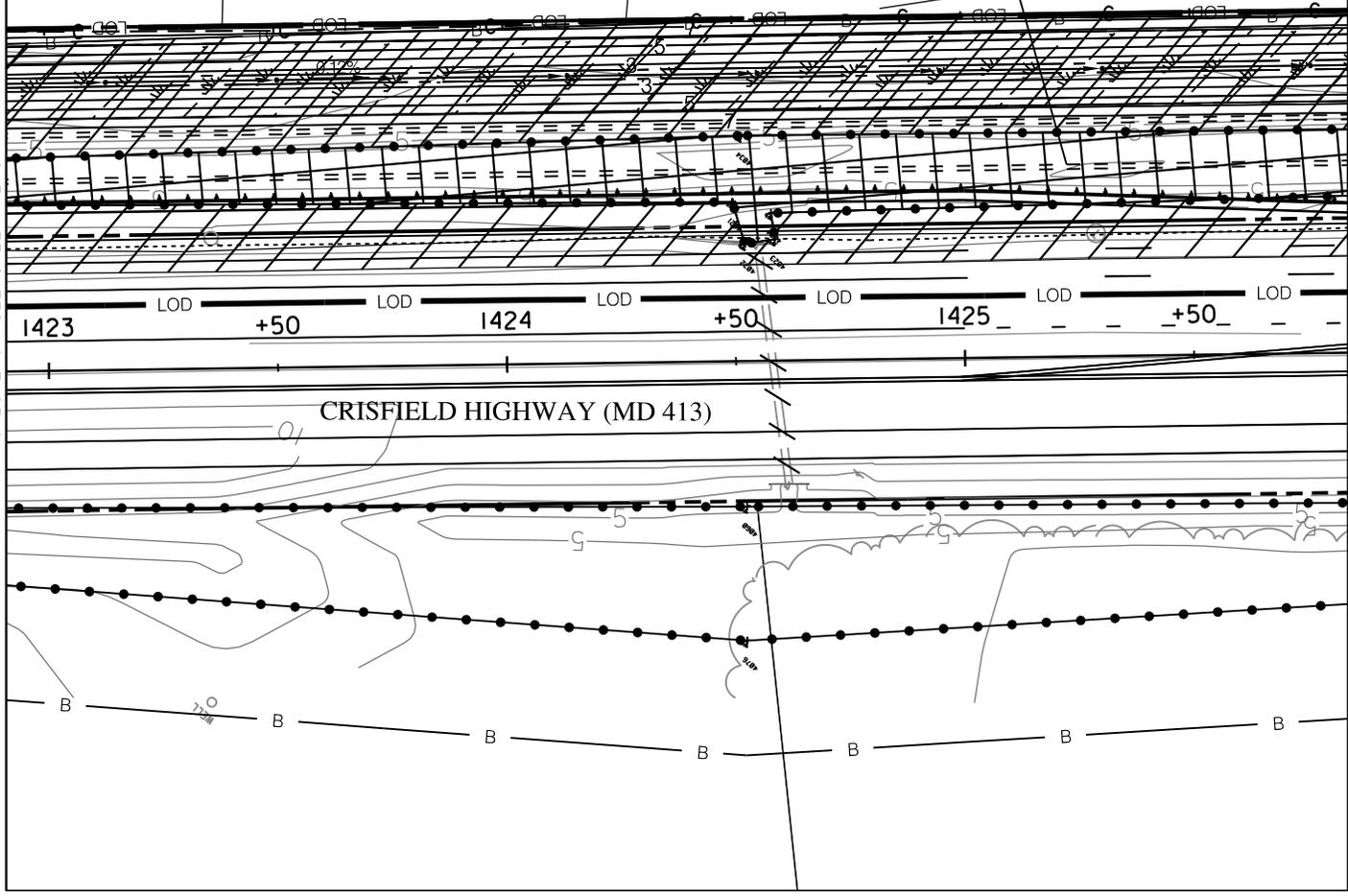
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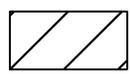
WETLAND WL004
PEM1E

MATCHLINE G (SEE SHEET 12 OF 17)

MATCHLINE H (SEE SHEET 14 OF 17)



PERMANENT PEM NON-TIDAL
WETLAND IMPACT
4,136 SF/0.095 AC



PERMANENT 25' NON-TIDAL
WETLAND BUFFER IMPACT
11,176 SF/0.257 AC

NOTE: PEM WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING.



SCALE: 1" = 40'

SHEET 13 OF 17

PLOTTED: Monday, April 11, 2016 AT 01:55 PM
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 **SHA**

STATE OF MARYLAND
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DATE:
APRIL 2016

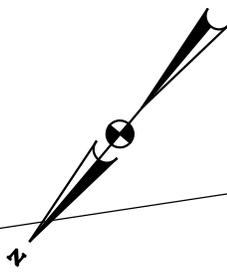
SCALE:
1" = 40'

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STATE HIGHWAY ADMINISTRATION
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MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130

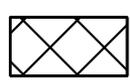
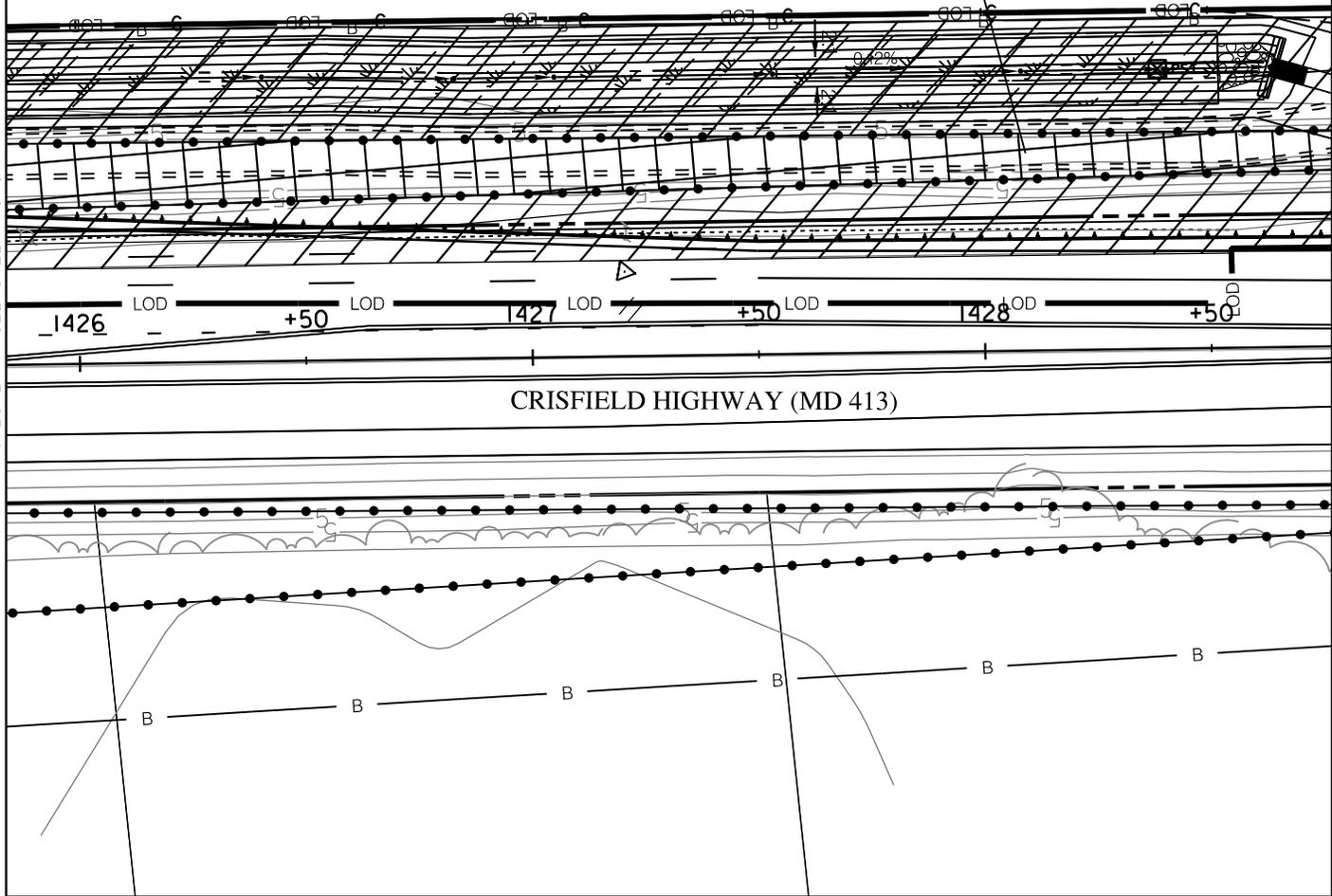
IMPACT 8



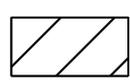
WETLAND WL004
PEM1E

MATCHLINE H (SEE SHEET 13 OF 17)

MATCHLINE I (SEE SHEET 15 OF 17)



PERMANENT PEM NON-TIDAL
WETLAND IMPACT
3,411 SF/0.078 AC



PERMANENT 25' NON-TIDAL
WETLAND BUFFER IMPACT
11,866 SF/0.272 AC

NOTE: PEM WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING.



SCALE: 1" = 40'

SHEET 14 OF 17

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DATE:
APRIL 2016

SCALE:
1" = 40'

DRAWN BY:
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AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130

IMPACT 9

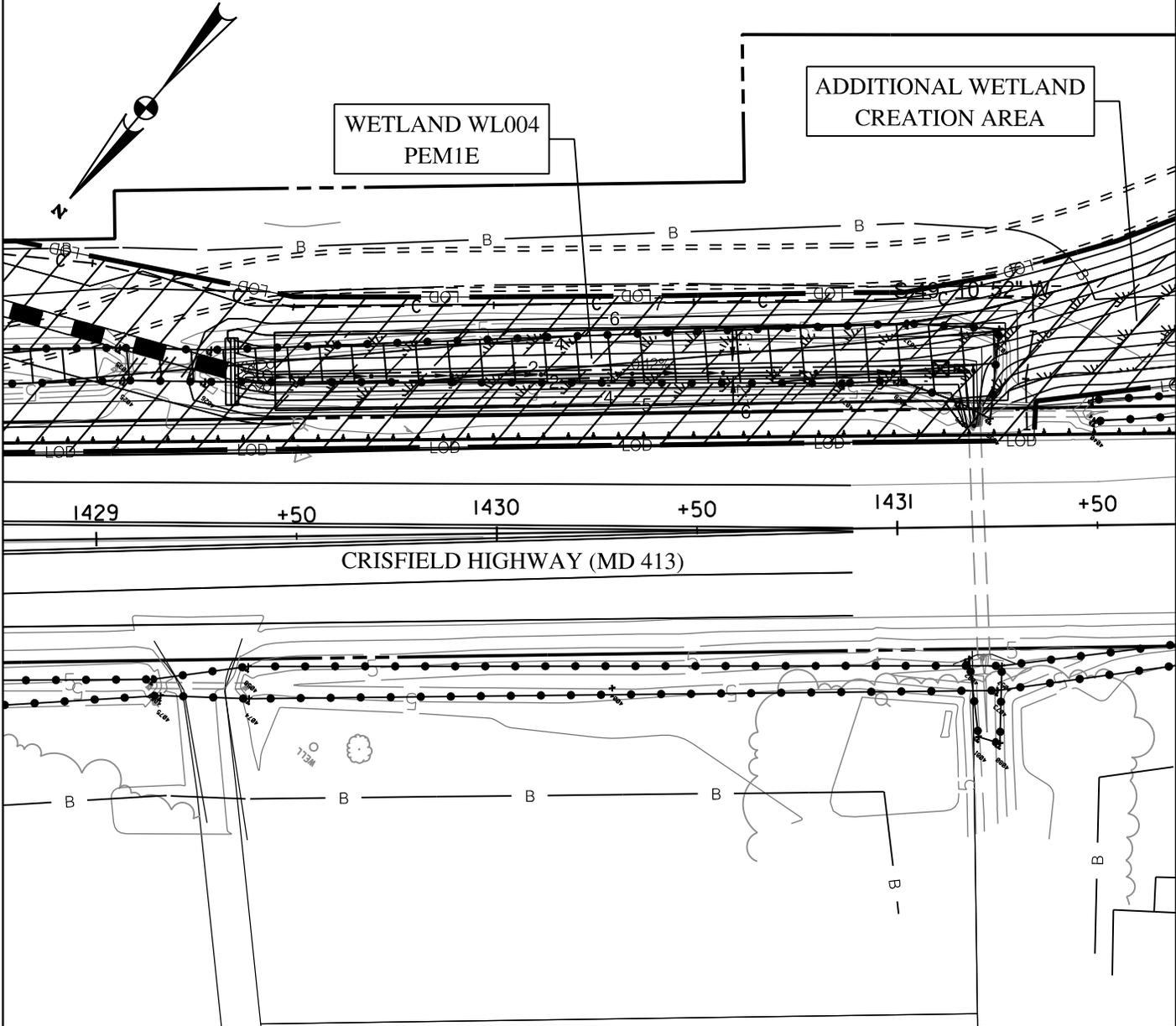
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WETLAND WL004
PEM1E

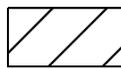
ADDITIONAL WETLAND
CREATION AREA

MATCHLINE I (SEE SHEET 14 OF 17)

MATCHLINE J (SEE SHEET 16 OF 17)



PERMANENT PEM NON-TIDAL
WETLAND IMPACT
2,825 SF/0.065 AC



PERMANENT 25' NON-TIDAL
WETLAND BUFFER IMPACT
8,473 SF/0.195 AC

NOTE: PEM WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING.



SCALE: 1" = 40'

SHEET 15 OF 17

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STATE HIGHWAY
ADMINISTRATION

DATE:
APRIL 2016

SCALE:
1" = 40'

DRAWN BY:
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FOR USACE
USE

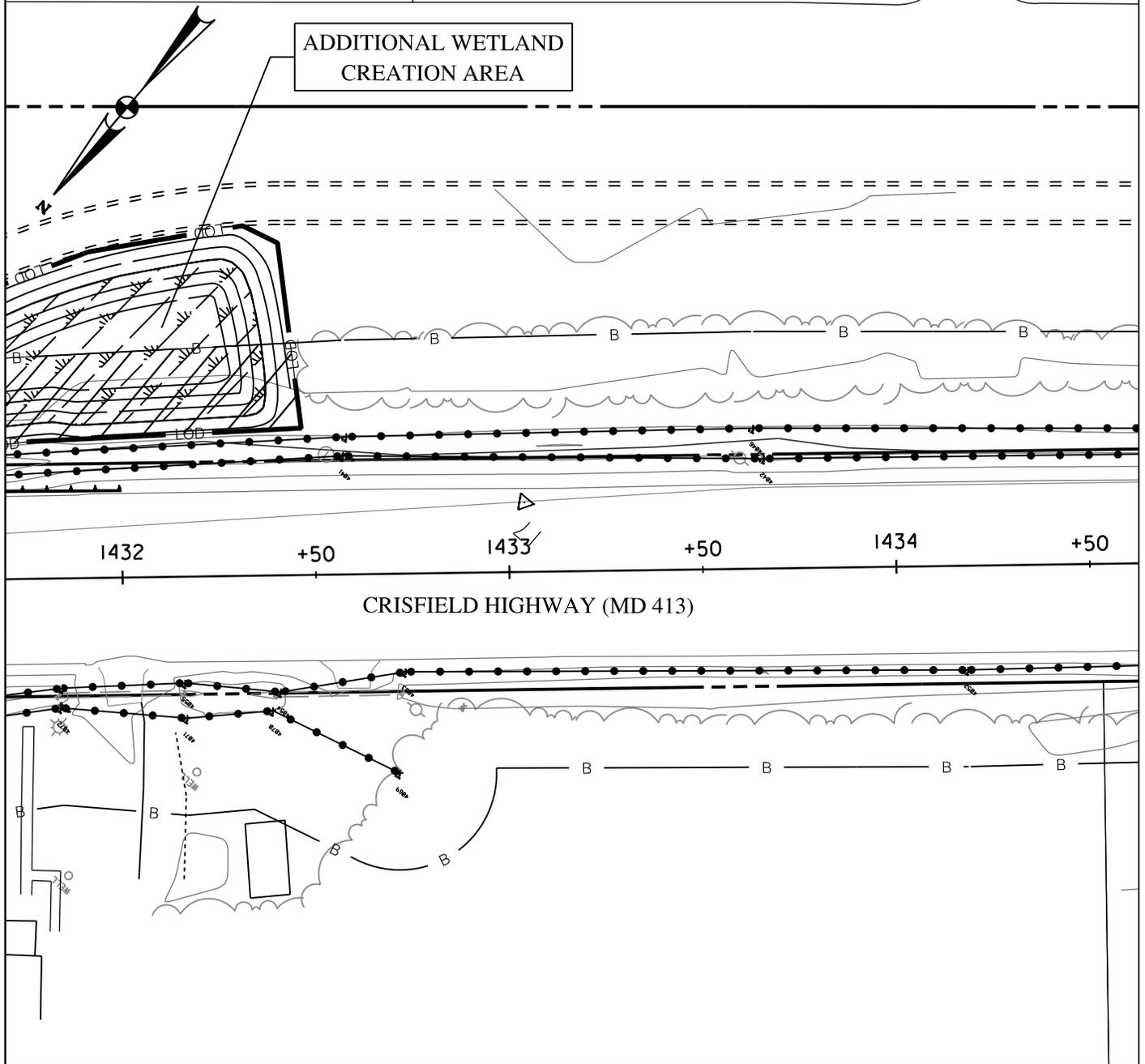
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MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130

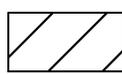
IMPACT 10

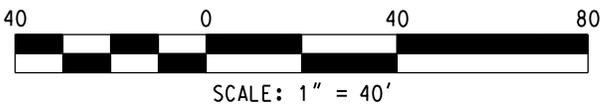
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BY: - Division:
FILE: M:\2014\22146149\02 Drawings\NRM\Impact Plotses\pwp-f015_md413_usace.dgn

MATCHLINE J (SEE SHEET 15 OF 17)

ADDITIONAL WETLAND CREATION AREA



 PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT
1,655 SF/0.038 AC



SHEET 16 OF 17

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ADMINISTRATION

DATE:
APRIL 2016
SCALE:
1" = 40'
DRAWN BY:
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FOR USACE
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OFFICE OF ENVIRONMENTAL DESIGN
MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130
IMPACT 11

	PERMANENT PEM NON-TIDAL WETLAND IMPACT	PERMANENT PFO NON-TIDAL WETLAND IMPACT	PERMANENT 25' NON-TIDAL WETLAND BUFFER IMPACT
IMPACT 1	—————	—————	1,285 SF 0.029 AC
IMPACT 2	3,542 SF 0.081 AC	534 SF 0.012 AC	12,490 SF 0.287 AC
IMPACT 3	4,129 SF 0.095 AC	878 SF 0.02 AC	16,574 SF 0.38 AC
IMPACT 4	4,294 SF 0.099 AC	877 SF 0.02 AC	16,294 SF 0.374 AC
IMPACT 5	3,315 SF 0.076 AC	456 SF 0.01 AC	14,765 SF 0.339 AC
IMPACT 6	2,192 SF 0.05 AC	—————	13,426 SF 0.308 AC
IMPACT 7	2,370 SF 0.054 AC	—————	11,423 SF 0.262 AC
IMPACT 8	4,136 SF 0.095 AC	—————	11,176 SF 0.257 AC
IMPACT 9	3,411 SF 0.078 AC	—————	11,866 SF 0.272 AC
IMPACT 10	2,825 SF 0.065 AC	—————	8,473 SF 0.195 AC
IMPACT 11	—————	—————	1,655 SF 0.038 AC
TOTALS	30,214 SF 0.694 AC	2,745 SF 0.063 AC	119,427 SF 2.742 AC

NOTE:

1. THERE ARE NO 100-YEAR FLOODPLAIN IMPACTS.
2. PEM AND PFO WETLANDS WILL BE REPLACED IN KIND, THE IMPACTS ARE SELF-MITIGATING. PFO WETLANDS WILL BE REPLANTED.

SHEET 17 OF 17



DATE:
APRIL 2016

SCALE:
N. T. S.

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MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD, SOMERSET COUNTY
CONTRACT # S01925130

IMPACT TOTALS

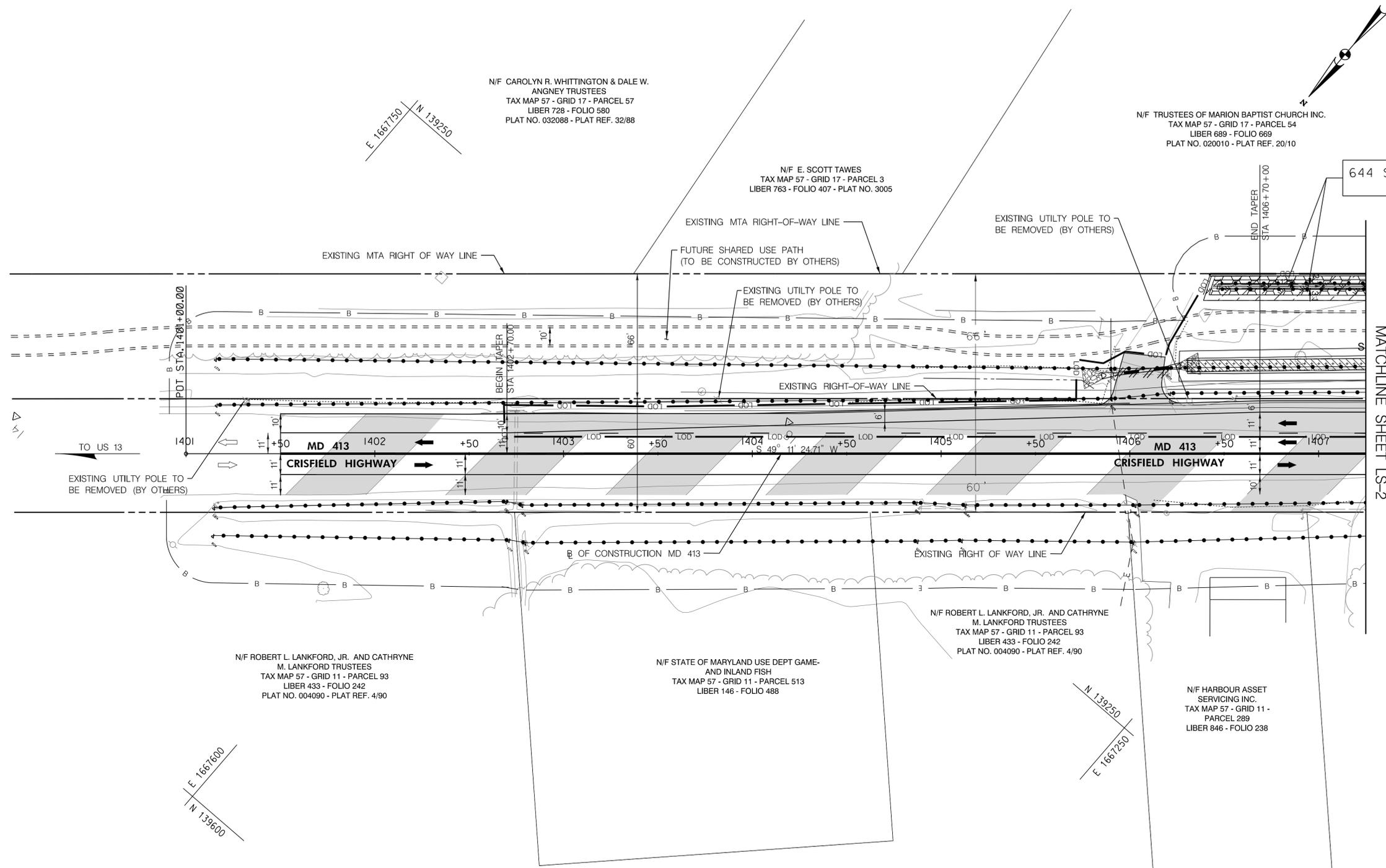
E 1667130 / N 139250

N/F CAROLYN R. WHITTINGTON & DALE W. ANGNEY TRUSTEES
TAX MAP 57 - GRID 17 - PARCEL 57
LIBER 728 - FOLIO 580
PLAT NO. 032088 - PLAT REF. 32/88

N/F E. SCOTT TAWES
TAX MAP 57 - GRID 17 - PARCEL 3
LIBER 763 - FOLIO 407 - PLAT NO. 3005

N/F TRUSTEES OF MARION BAPTIST CHURCH INC.
TAX MAP 57 - GRID 17 - PARCEL 54
LIBER 689 - FOLIO 669
PLAT NO. 020010 - PLAT REF. 20/10

644 SF TO BE PLANTED WITH TREES



TO US 13

N/F ROBERT L. LANKFORD, JR. AND CATHRYNE M. LANKFORD TRUSTEES
TAX MAP 57 - GRID 11 - PARCEL 93
LIBER 433 - FOLIO 242
PLAT NO. 004090 - PLAT REF. 4/90

N/F STATE OF MARYLAND USE DEPT GAME- AND INLAND FISH
TAX MAP 57 - GRID 11 - PARCEL 513
LIBER 146 - FOLIO 488

N/F ROBERT L. LANKFORD, JR. AND CATHRYNE M. LANKFORD TRUSTEES
TAX MAP 57 - GRID 11 - PARCEL 93
LIBER 433 - FOLIO 242
PLAT NO. 004090 - PLAT REF. 4/90

N/F HARBOUR ASSET SERVICING INC.
TAX MAP 57 - GRID 11 - PARCEL 289
LIBER 846 - FOLIO 238

MATCHLINE SHEET LS-2

E 1667600 / N 139600

N 139250 / E 1667250

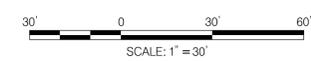


STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD

LANDSCAPE LEGEND

- TREE PLANTING ZONE
- ESD WET SWALE
- WETLAND BYPASS DITCH

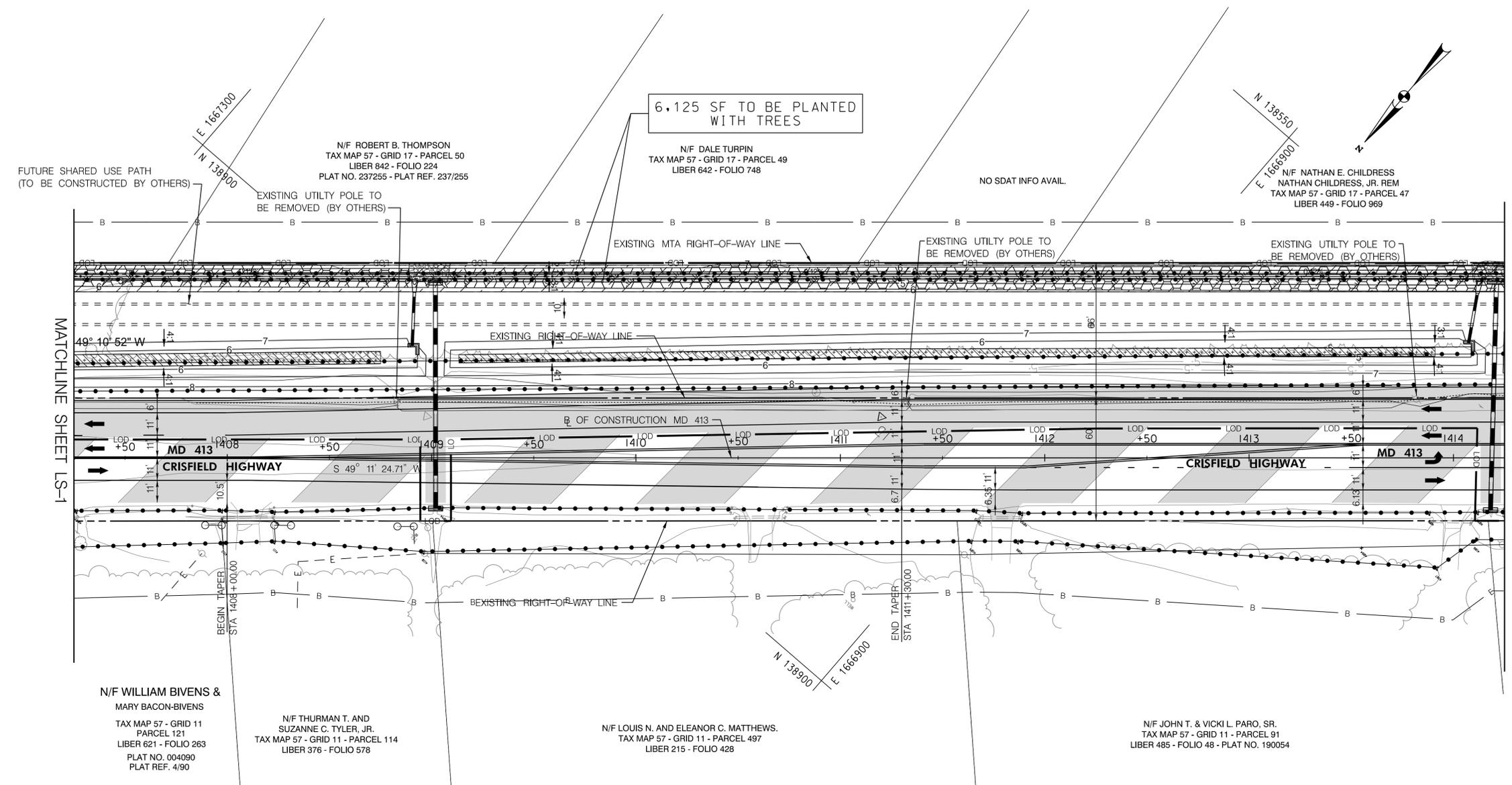


REVISIONS	LANDSCAPE PLAN - WETLAND BYPASS DITCH	
	SCALE 1" = 30'	ADVERTISED DATE _____ CONTRACT NO. S01925130
	DESIGNED BY _____	COUNTY SOMERSET
	DRAWN BY _____	LOGMILE _____
	CHECKED BY _____	HORIZONTAL SCALE _____
	F.A.P. NO. SEE TITLE SHEET	VERTICAL SCALE _____
	DRAWING NO. LS-01	OF 04 SHEET NO. 55 OF 59

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BY: - Division:



6,125 SF TO BE PLANTED WITH TREES

N/F ROBERT B. THOMPSON
TAX MAP 57 - GRID 17 - PARCEL 50
LIBER 842 - FOLIO 224
PLAT NO. 237255 - PLAT REF. 237/255

N/F DALE TURPIN
TAX MAP 57 - GRID 17 - PARCEL 49
LIBER 642 - FOLIO 748

N/F NATHAN E. CHILDRESS
NATHAN CHILDRESS, JR. REM
TAX MAP 57 - GRID 17 - PARCEL 47
LIBER 449 - FOLIO 969

N/F WILLIAM BIVENS &
MARY BACON-BIVENS
TAX MAP 57 - GRID 11
PARCEL 121
LIBER 621 - FOLIO 263
PLAT NO. 004090
PLAT REF. 4/90

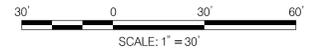
N/F THURMAN T. AND
SUZANNE C. TYLER, JR.
TAX MAP 57 - GRID 11 - PARCEL 114
LIBER 376 - FOLIO 578

N/F LOUIS N. AND ELEANOR C. MATTHEWS.
TAX MAP 57 - GRID 11 - PARCEL 497
LIBER 215 - FOLIO 428

N/F JOHN T. & VICKI L. PARO, SR.
TAX MAP 57 - GRID 11 - PARCEL 91
LIBER 485 - FOLIO 48 - PLAT NO. 190054

LANDSCAPE LEGEND

- TREE PLANTING ZONE
- ESD WET SWALE
- WETLAND BYPASS DITCH



STATE OF MARYLAND
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MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD

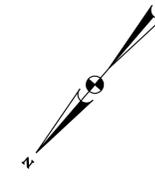
REVISIONS	LANDSCAPE PLAN - WETLAND BYPASS DITCH
	SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. S01925130
	DESIGNED BY _____ COUNTY SOMERSET
	DRAWN BY _____ LOGMILE _____
	CHECKED BY _____ HORIZONTAL SCALE _____
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	DRAWING NO. LS-02 OF 04 SHEET NO. 56 OF 59

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FILE: M:\2014\22146149\02\Drawings\NRM\Drawings\pLS-002.dgn

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FAX: (410) 316-7818



BY: - Division:

E 1666800
N 138450

1,243 SF TO BE PLANTED WITH TREES

N/F NATHAN E. CHILDRESS
NATHAN CHILDRESS, JR. REM
TAX MAP 57 - GRID 17 - PARCEL 47
LIBER 449 - FOLIO 969

EXISTING UTILITY POLE TO BE REMOVED (BY OTHERS)

N/F ELIZABETH G. THORNTON
TAX MAP 57 - GRID 17 - PARCEL 45
LIBER 376 - FOLIO 24 - PLAT NO. 260450

N/F JAMES A. AND ELIZABETH G. THORNTON
TAX MAP 57 - GRID 17 - PARCEL 515
LIBER 376 - FOLIO 24 - LOT 2 3
PLAT NO. 4090

N/F ELIZABETH G. THORNTON
TAX MAP 57 - GRID 17 -
PARCEL 43 - LIBER 487 - FOLIO 220
PLAT NO. 233553 - PLAT REF 233/553

CRISFIELD MARION RD
R/W VARIES
SAWCUT THE EX. 24" RCP
& CONNECT TO PROP. MH

N/F MARION FIRE DEPT., INC.
CO. TAX MAP 57 - GRID 16 - PARCEL 72
LIBER 418 - FOLIO 1094
EXISTING UTILITY POLE TO BE REMOVED (BY OTHERS)

N 138050
E 1666300

FUTURE SHARED USE PATH
(TO BE CONSTRUCTED BY OTHERS)

EXISTING MTA
RIGHT-OF-WAY LINE

TULLS CORNER RD
34' R/W PLAT 233/553

MATCHLINE SHEET LS-2

EXISTING RIGHT-OF-WAY LINE

CRISFIELD HIGHWAY
ROUTE 413 60' R/W

LOD +50

OF CONSTRUCTION MD 413

N/F JAMES W. AND BETH P. WILEY
TAX MAP 57 - GRID 17 - PARCEL 90
LIBER 504 - FOLIO 197 - LOT 6
PLAT NO. 024069 - PLAT REF. 24/69

N/F JAMES W. AND BETH P. WILEY
TAX MAP 57 - GRID 16 - PARCEL 177
LIBER 504 - FOLIO 197 - LOT 5A
PLAT NO. 024069 - PLAT REF. 24/69

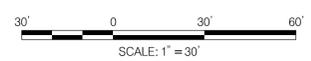
N 138450
E 1666300

N/F CURTIS P. JOHNS, GARRISONB. JOHNS,
CHARLES M. CAHN JR. TRUSTEES
TAX MAP 57 - GRID 16 - PARCEL 89
LIBER 424 - FOLIO 211
PLAT NO. 003015 - PLAT REF. 3/15

LANDSCAPE LEGEND

- TREE PLANTING ZONE 
- ESD WET SWALE 
- WETLAND BYPASS DITCH 

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STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD

REVISIONS	LANDSCAPE PLAN - WETLAND BYPASS DITCH
	SCALE 1" = 30' ADVERTISED DATE _____ CONTRACT NO. SO1925130
	DESIGNED BY _____ COUNTY SOMERSET
	DRAWN BY _____ LOGMILE _____
	CHECKED BY _____ HORIZONTAL SCALE _____
	F.A.P. NO. SEE TITLE SHEET VERTICAL SCALE _____
	DRAWING NO. LS-03 OF 04 SHEET NO. 57 OF 59

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MASTER PLANT SCHEDULE

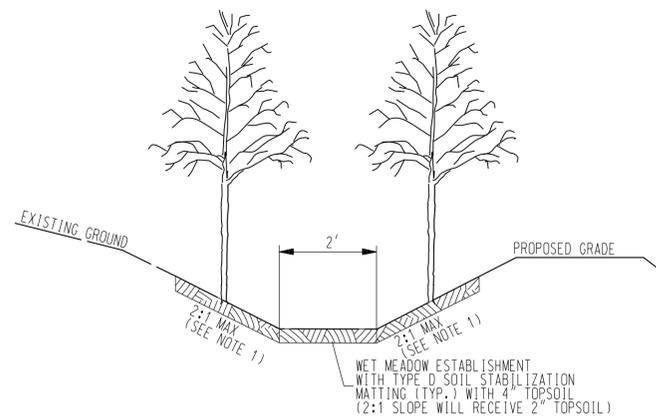
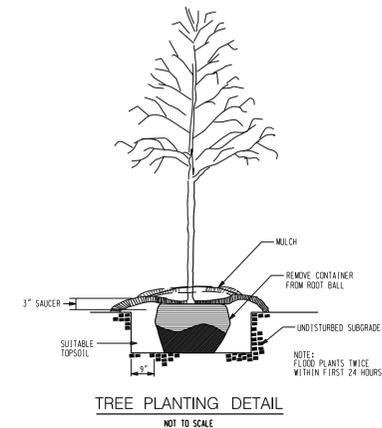
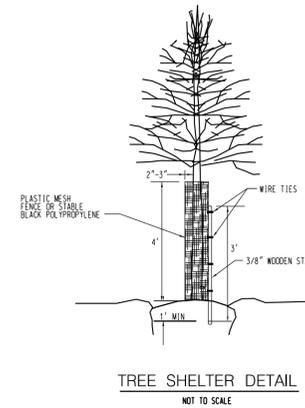


WETLAND BYPASS DITCH PLANTING AREA (STATION 1406+50 TO STATION 1414+50)
(8,012 SQ. FT. OR 18 AC)

Qty	Botanical Name	Common Name	Size	Form	Spacing/Rate
TREES					
16	<i>Corpinus caroliniana</i>	Musclewood	5' Height	Container	10' O.C.
16	<i>Ilex opaca</i>	American Holly	5' Height	Container	10' O.C.
16	<i>Liquidambar styraciflua</i>	Sweet Gum	5' Height	Container	10' O.C.
16	<i>Magnolia virginiana</i>	Sweetbay Magnolia	5' Height	Container	10' O.C.
17	<i>Salix nigra</i>	Black Willow	5' Height	Container	10' O.C.

NOTES:

1. PLANT TREES ONLY ON SLOPES OF WETLAND BYPASS DITCH. SEE THIS SHEET AND SHEET SW-5 FOR DETAIL OF WETLAND BYPASS DITCH.
2. ALTERNATE PLANTING OF DECIDUOUS SPECIES AND GROUP ILEX OPACA IN THREES.
3. THE WETLAND BYPASS DITCH WILL BE SEEDED AS WET MEADOW ESTABLISHMENT AS SPECIFIED ON SHEET SW-5.



WETLAND BYPASS DITCH TYPICAL SECTION

- NOTE:**
1. FOR STATION 1406+50 TO STATION 1414+50 ONLY
 2. THE SIDE SLOPE OF THE WETLAND BYPASS DITCH VARIES BETWEEN 2:1 TO 3:1. SEE CROSS SECTION SHEETS FOR DETAILS.



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
HIGHWAY DESIGN DIVISION

MD 413 INTERSECTION IMPROVEMENTS
AT TULLS CORNER ROAD

REVISIONS	LANDSCAPE DETAILS
	SCALE <u>N.T.S.</u> ADVERTISED DATE _____ CONTRACT NO. <u>SO1925130</u>
	DESIGNED BY _____ COUNTY <u>SOMERSET</u>
	DRAWN BY _____ LOGMILE _____
	CHECKED BY _____ HORIZONTAL SCALE _____
	F.A.P. NO. <u>SEE TITLE SHEET</u> VERTICAL SCALE _____
	DRAWING NO. <u>LS-04</u> OF <u>04</u> SHEET NO. <u>58</u> OF <u>59</u>

ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS

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