# Critical Area Commission

### **STAFF REPORT**

July 6, 2022

**APPLICANT:** Maryland Department of Transportation

State Highway Administration

JURISDICTION: Talbot County

**PROPOSAL:** MD 322 at Glenwood Avenue Intersection

**Improvements** 

**COMMISSION ACTION:** Vote

**STAFF RECOMMENDATION:** Approval

**STAFF:** Alex DeWeese

APPLICABLE LAW/

**REGULATIONS:** COMAR 27.02.05 State Agency Actions Resulting

in Development on State-Owned Lands

### **DISCUSSION**

The Maryland Department of Transportation (MDOT) State Highway Administration (SHA) is proposing traffic and safety improvements along Maryland 322 at Glenwood Avenue in Talbot County. The proposed work involves full depth outside widening to provide a dedicated right turn lane, through lane and left turn lane; as well as 10-foot-wide shoulders along MD 322 northbound and southbound at Glenwood Avenue. Additionally, the proposed work includes the installation of stormwater management facilities, drainage improvements, grinding and resurfacing or the existing roadway, and necessary signage and pavement marking upgrades and landscaping. The purpose of the project is to provide additional safety capacity at the intersection. The left turn lane will eliminate queuing of vehicles and buses turning onto Glenwood Avenue, while the wider shoulders are a needed safety feature for cars and bicycles.

Due to the nature of the project, which includes adding a turn lane, this project is not captured under the Memorandum of Understanding (MOU) Exhibit between MDOT SHA and the Critical Area Commission. Therefore, review and approval by the Critical Area Commission is required.

### **Project Impacts and Mitigation**

The project's proposed limit of disturbance (LOD) is 5.07 acres, of which 4.57 acres are within the Critical Area. As a linear highway row-of-way (ROW), the Critical Area portion of the site is designated as Intensely Developed Area (IDA). The site is developed with existing roadways and associated improvements, while the surrounding area is mapped as IDA with a mix of

MDOT SHA – MD 322 at Glenwood Avenue Intersection Improvements July 6, 2022 Page **2** of **5** 

institutional and residential uses. Impervious surfaces within the LOD will increase from 0.4 acres to 1.54 acres.

Approximately 18,750 square feet of developed woodland will be cleared to accommodate the proposed development, as well as the loss of six individual trees within the Critical Area. A portion of the project is located within the Critical Area Buffer and expanded Buffer for construction of the new turn lanes. Appropriate mitigation is provided as discussed below.

## Tree Clearing and Buffer Impacts

Per COMAR 27.02.05.03.E(2), roads, bridges and utilities are allowed within the Critical Area Buffer if there is no practicable alternative; and the road, bridge or utility is designed to: provide maximum protection from erosion, avoid or minimize impacts to habitat, and maintain hydrologic processes and water quality. Per the Commission's MOU with SHA, permanent impacts to linear facilities within the right-of-way are mitigated at a ratio of 1:1, and any canopy area cleared is mitigated at an additional ratio of 1:1. There are 11,228 square feet of temporary disturbance in the Buffer; this area will be restored to its original conditions; therefore mitigation is not required. There are also 34,788 square feet of permanent disturbance in the ROW within the Buffer, to be mitigated at a 1:1 ratio. Finally, there will be 18,750 square feet of canopy cleared and six individual trees cleared, to be mitigated at a 1:1 ratio for a total mitigation requirement of 53,538 square feet.

Mitigation for impacts to the Buffer and clearing of developed woodlands and trees will occur within the Critical Area and Critical Area Buffer, within the project vicinity. Some of the plantings will be located outside of the LOD along MD 322 north and south of the intersection improvements. These plantings total 53,538 square feet (1.23 acres) of mitigation credit, as well as six additional trees. Mitigation plantings will consist of a mix of native overstory, understory and shrubs. The contractor will begin a one-year maintenance period upon planting completion, followed by MDOT SHA's monitoring program with regular inspections.

### 10% Phosphorus Reduction/Stormwater Management

The proposed project is required to meet the Critical Area Commission's 10% phosphorus reduction requirements. The pollutant reduction requirement is 1.73 pounds of phosphorus per year (lbs P/yr). A total load reduction of 1.95 lbs of P/yr is achieved through the construction of two microbioretention ponds, five grass swales and one bioswale, resulting in an excess of 0.22 lbs P/yr provided.

### Tidal and Nontidal Wetlands

The proposed project will have temporary and permanent impacts to both tidal and nontidal wetlands as well as tidal waters. The table below summarizes these impacts in square feet. Additional information regarding these impacts is addressed below under "Maryland Department of the Environment (MDE)."

Resource	Temporary Impacts	Permanent Impacts
Nontidal Wetlands	989	0
Nontidal Wetlands Buffer	9,049	131
Nontidal Waters	665	229
Tidal Wetlands	155	0
Tidal Waters	737	1,076

### Permits and Review by Other Agencies

### Maryland Department of the Environment (MDE)

A Joint Federal/State Application for the Alteration of any Floodplain, Waterway, Tidal or Nontidal Wetland (JPA) was submitted to MDE on July 26, 2019 and amended on September 30. No comments were received during the public notice period. Temporary and permanent impacts to nontidal waters and wetlands, their buffer, and tidal wetlands and waters are anticipated and will require approval by the Board of Public Works. MDOT SHA has requested to pay into the Tidal Wetlands Compensation Fund to fulfill the mitigation requirements. The Tidal Wetlands License Report and Recommendation was referred to BPW on June 15, 2022 and the Letter of Authorization is effective as of June 17, 2022.

In addition, sediment and erosion control authorization and approval of stormwater management plans from SHA's internal review is pending. Approvals are expected by mid-July.

### Maryland Department of Natural Resources (DNR)

The Department's Wildlife and Heritage Service (WHS) indicated that there are no official State or Federal records for listed plant or animal species existing onsite. A letter from the DNR Environmental Review Program dated June 11, 2021, noted the Use I and Use II stream closure periods.

### U.S. Fish and Wildlife Service (USFWS)

A Trust Resources List search on the USFWS website, conducted on August 5, 2021, indicated that there is no record of endangered species, refuges, or fish hatcheries within the vicinity of the project.

### Maryland Historical Trust (MHT)

Per correspondence dated May 9, 2019, and June 2, 2021, the Maryland Historical Trust (MHT) has determined that this project will have no adverse effect on historic properties.

### **Climate Resiliency**

MDOT SHA completed a climate impact and coastal resiliency analysis for this project, which has an anticipated service life of 25 years. Based on this analysis, the project is not immediately vulnerable to climate impacts. Some portions of the widened roadway and existing roadway footprint will be inundated when sea level rise reaches the 5 to 10 feet level, as per the Coastal Atlas mapping tool; as well as with storm surge from a Category 3 or greater storm. Impacts to wetland adaptation areas are expected due to roadway widening and drainage improvements

MDOT SHA – MD 322 at Glenwood Avenue Intersection Improvements July 6, 2022 Page 4 of 5

along MD 322 southbound, just north of the intersection. SHA determined that the as the project does not involve a "new structure" Coast Smart Construction Program criteria is not applicable.

As per COMAR 27.02.05.03.B(3)(b) and 27.02.05.03.C(1) through (3) state agencies must preserve, protect, and maintain a potential wetland migration area to the maximum extent practicable. If impacts are unavoidable, the State Agency must demonstrate why, assess ecological features on site that could be enhanced, restored, or created to maintain existing wetland functions and provide additional protection against future coastal hazards, and make recommendations regarding the most feasible methods to address the detrimental impact and the enhancement, restoration, and creation of natural features on site. SHA provided the following justification and assessment.

Just north of the MD 322/Glenwood Avenue intersection – along MD 322 SB – impacts to a DNR mapped wetland adaptation area are expected due to roadway widening and drainage improvements. Proposed roadway widening cannot be avoided at this location as additional capacity is needed to address safety issues at the MD 322/Glenwood Avenue intersection. The widening will provide a dedicated left turn lane on MD 322 NB and SB to eliminate queuing caused by vehicles and school buses turning onto Glenwood Avenue, and will include new 10-foot wide shoulders for vehicles turning onto/from MD 322. Please note areas disturbed by fill/grading activities beyond the widening will be stabilized and planted per the project's Landscape Plans.

With regards to the proposed drainage improvements, only minor temporary impacts to existing nontidal and tidal vegetated wetlands are expected to occur within a DNR mapped wetland adaptation area, along MD 322 SB just north of the MD 322/Glenwood Avenue intersection. Proposed drainage work at this location includes extension of a 48-inch diameter pipe and installation of an adjacent/parallel 54-inch diameter pipe to reduce flooding on upstream properties. Please note impacts to nontidal and tidal wetlands at the outfall are associated with temporary E&SC measures resulting in 449 square feet of temporary nontidal wetland impact and 155 SF of temporary tidal wetland impact. There will be no loss of existing wetland habitat at this location. Temporarily impacted nontidal and tidal wetlands will be restored with Wet Meadow seed per the project's Landscape Plans. Please note there will be minor permanent tidal open water impact at the outfall of the pipes due to the extension and required riprap outfall protection. This impact is being mitigated via payment into MDE's Wetlands Compensation Fund.

### **Public Notice**

In accordance with the provisions of COMAR 27.03.01.03, multiple signs were posted at the project site and notice of the project was posted in *The Star Democrat* newspaper on June 8, 2022. As of the writing of this staff report, no public comments have been received. Any comments received will be noted at the Commission meeting.

MDOT SHA – MD 322 at Glenwood Avenue Intersection Improvements July 6, 2022 Page  $\bf 5$  of  $\bf 5$ 

# STAFF RECOMMENDATION

Staff recommends approval of the proposed project with the following condition:

1. Prior to the start of construction or within 30 days, whichever comes first, MDOT SHA shall submit a copy of all final plans, permits, and approvals, including stormwater management plans and MDE stormwater and erosion and sediment control authorizations, to Commission staff.

**ATTACHMENT 2** 

INDEX OF SHEETS

### SHEET NOS. AND OTHER CLARIFICATIONS 69–80, SIGNING AND PAVEMENT MARKING 15–30, MAINTENANCE OF TRAFFIC NOTES AND PLANS I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. MD LICENSE NO. 25381 EXPIRATION DATE: 07-19-2022

CONSTRUCTABILITY REVIEW

**SUBMITTAL MARCH, 2022** 

NOT FOR CONSTRUCTION

# McCORMICK TAYLOR

McCORMICK TAYLOR

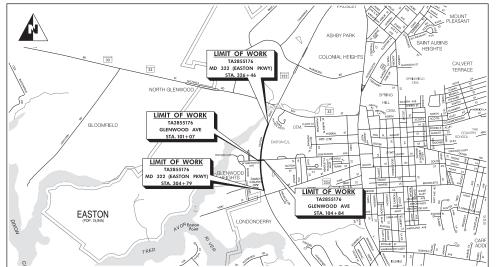
1 – 14, HIGHWAY DESIGN I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT IAM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

SHEET NOS. AND OTHER CLARIFICATIONS 31–38, STORM DRAIN SCHEDULES, STORMWATER MANAGENENT 39–68, EROSION AND SEDIMENT CONTROL NOTES AND PLANS I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. 33519 EXPIRATION DATE: 10-17-2022

MD LICENSE NO. 49376 EXPIRATION DATE: 06-01-2022 \baserver1\Projects\6871\_MD\_MDSHA\_SurveyEng\01\_MD322 Glanwood Ave\300\_CADD\Plan\_Set\Roadway\pGN-T000\_MD 322.dgn \text{Wednesday, March 09, 2022 AT 01:03 PM} MARYLAND DEPARTMENT OF TRANSPORTATION

### STATE HIGHWAY ADMINISTRATION

S.H.A. CONTRACT NO. - TA2855176 FEDERAL AID PROJECT NO. - N / A MD 322 (EASTON PARKWAY) AT GLENWOOD AVENUE INTERSECTION IMPROVEMENTS



### TALBOT COUNTY

HORIZONTAL DATUM	NAD	83 /91
VERTICAL DATUM	NAD	88

ROADWAY	MD 322	ROADWAY	MD 322
ROADWAY LENGTH (MILES)	1.131	ROADWAY LENGTH (MILES)	1.131
CONTROLS YEARS	2014	CONTROLS YEARS	2030
AVERAGE DAILY TRAFFIC (A.D.T.)	15,125	AVERAGE DAILY TRAFFIC (A.D.T.)	19,200
DESIGN HOURLY VOLUME (D.H.V.)	9%	DESIGN HOURLY VOLUME (D.H.V.)	9%
DIRECTIONAL DISTRIBUTION	58%	DIRECTIONAL DISTRIBUTION	58%
% TRUCKS (A.D.T.)	6%	% TRUCKS (A.D.T.)	6%
% TRUCKS (D.H.V.)	6%	% TRUCKS (D.H.V.)	6%
FUNCTIONAL CLASSIFICATION	OPA	FUNCTIONAL CLASSIFICATION	OPA
CONTROL OF ACCESS	PARTIAL	CONTROL OF ACCESS	PARTIAL
INTENSITY OF DEVELOPMENT	URBAN	INTENSITY OF DEVELOPMENT	URBAN
TERRAIN	LEVEL	TERRAIN	LEVEL
DESIGN SPEED (M. P. H.)	60	DESIGN SPEED (M. P. H.)	60
ANTICIDATED DOSTED SPEED (M. P. H.)	50	ANTICIDATED POSTED SPEED (M. D. H.)	50

### LENGTH OF PROJECT: MD 322 = 0.40 MILES

APPROV	/ED	DATE
DIVISION	CHIEF, PLAN REVIEW	DIVISION
PRD NO:_	17-PR-0151	EXPIRATION DATE:

STORMWATER AND SEDIMENT CONTROL FINAL APPROVAL

DISTRICT ENGINEER, DISTRICT 2

GEOMETRIC DESIGN CRITERIA

THIS PROJECT WAS DESIGNED IN ACCORDANCE WITH THE 2011 PUBLICATION OF AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

(AASHTO) "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" STANDARD SPECIFICATIONS BOOK, BOOK OF STANDARDS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ALL WORK ON THIS PROJECT SHALL CONFORM TO: THE LATEST APPROVED MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA)

"STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" REVISIONS THEREOF OR ADDITIONS THEREOF, AS INDICATED IN THE PROJECT DESCRIPTION OF THE INVITATION FOR BIDS BOOK; THE SPECIAL PROVISIONS INCLUDED IN THE

INVITATION FOR RIDS BOOK THE ADMINISTRATION'S "ROOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES" AND THE LATEST ADOPTED MUTCO.

RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT OFFICIAL, FOR OFFICIAL FEE RIGHT OF WAY AND EASEMENT INFORMATION, SEE APPROPRIATE

THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE OF THE ACCURACY OF SAID

ADA COMPLIANCE
THE DESIGN OF THIS PROJECT HAS INCORPORATED FACILITIES TO ACCOMMODATE PERSONS WITH DISABILITIES IN COMPLIANCE WITH STATE AND FEDERAL ENVIRONMENTAL INFORMATION
ALL STORMWATER MANAGEMENT FACILITIES CONSTRUCTED FOR THIS CONTRACT
SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MOOT SHA BEST

MANAGEMENT PRACTICES (BMP) INSPECTION AND REMEDIATION PROGRAM

FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES,

DITCHES, PERIMETER SLOPES, AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), AND SEVEN DAYS (7) AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. OWNERS / DEVELOPERS CERTIFICATION:

1 / WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION ANDOR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE

RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. HEREBY AUTHORIZE THE

EAISTING STRUCTURES PLANS
FOR THE CONVENIENCE AND INFORMATION OF BIDDERS, PRINTS OF PLANS OF
EXISTING PERTINENT STRUCTURE(S) ARE INCLUDED WITH THIS CONTRACT, NO
RESPONSIBILITY FOR THEIR ACCURACY OR COMPLETENESS IS ASSUMED BY THE

MDOT SHA DIMENSIONS DETAILS FTC. AS SHOWN THEREON MAY NOT BE AS BUILT.

RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY MDE COMPLIANCE INSPECTORS

RIGHT OF WAY

RIGHT OF WAY PLATS.

STANDARD STABILIZATION NOTE:

EXISTING STRUCTURES PLANS

LOCATIONS.

APPROVED DIRECTOR, OFFICE OF HIGHWAY DEVELOPMENT

STRUCTURE INVENTORY NO.:

SCALE: 1" - 1000 RIGHT OF WAY REVISIONS NOTE: SEE SHEET NO.2 FOR LIST OF SURVEY BOOK DESIGN DESIGNATION NUMBERS PLAT NUMBERS

DEPUTY ADMINISTRATOR / CHIEF ENGINEER FOR PLANNING, ENGINEERING, REAL ESTATE AND ENVIRONMENT

CONTRACT NO.: TA2855176

MODIFICATIONS

