



COUNTY COMMISSIONERS HEARING ROOM
400 HIGH STREET
CHESTERTOWN, MARYLAND

AGENDA
 Thursday, June 6, 2024
 1:30 p.m.

Members of the public are welcome to attend meetings in person or via conference call.

Public participation and audio-only call-in number:

1. Dial **1-872-239-8359**
2. Enter Conference ID: **200 996 796#**

Members of the public are asked to mute their phones/devices, until the Commission Chair opens the floor for comment.

Members of the public may also watch the live video feed and view the video after the meeting at the County's YouTube channel at <https://www.youtube.com/@kentcountygovernment2757>.

MINUTES

May 2, 2024

DATE FOR JULY PLANNING COMMISSION MEETING

APPLICATIONS FOR REVIEW

22-67 Everton Industrial, Lot 1 – Major Site Plan (Preliminary)
 Map 31, Parcel 6, Part 1, Lot 1 near Millington – First Election District – Employment Center (EC)

23-28 Everton Industrial, Lot 2 – Major Site Plan (Preliminary)
 Map 31, Parcel 6, Part 1, Lot 2 near Millington – First Election District – Employment Center (EC)

GENERAL DISCUSSION

Map Change Request for review by Planning Commission

Final version of Official Zoning Map for recommendation

STAFF REPORTS

ADJOURN

Meetings are conducted in Open Session unless otherwise indicated. All or part of the Planning Commission meetings can be held in closed session under the authority of the MD Open Meetings Law by vote of the members. Breaks are at the call of the Chairman. Meetings are subject to audio and video recordings. All applicants will be given the time necessary to assure full public participation and a fair and complete review of all projects. Agenda items are subject to change due to cancellations.



DRAFT

Planning Commission
Department of Planning, Housing, and Zoning

MINUTES

May 2, 2024

1:30 p.m.

Video recordings of the Kent County Planning Commission meeting are available online for viewing on the County's YouTube channel at <https://www.youtube.com/@kentcountygovernment2757>.

The Planning Commission met in regular session on Tuesday, May 2, 2024, in the County Commissioners' Hearing Room at 400 High Street, Chestertown, Maryland. Members of the public were invited to attend in person or via conference call.

The following members were in attendance: Chair Joe Hickman, Vice Chair Paul Ruge, Jim Saunders, Ray Strong, Paula Reeder, Sean Jones, and William Crowding. Planning Commission Attorney Cynthia L. McCann, Esquire, was present. Staff in attendance included William Mackey, AICP, Director; Carla Gerber, AICP, Deputy Director; Mark Carper, LEED Green Associate, Associate Planner; Rob Tracey, AICP, Associate Planner; Beth Grieb, Office Manager, and serving as Acting Clerk; and Tyler Arnold, GIS Coordinator.

Representatives for the Mason Solar project included Ted Hastings; Josh Spencer; and Tony Kupersmith, Esq. Members of the public who spoke regarding the Mason Solar project included Linda O'Connor; Richard James O'Connor; Janet Christensen-Lewis; and A. Elizabeth Watson, FAICP.

Applicants for rezoning requests included Lance Young, Esq.; Robin Brayton; Roy Hoagland;

Chair Hickman called the meeting to order at 1:30 p.m.

MINUTES

Ms. Reeder moved to approve the minutes from the April 4 and April 11 meetings, along with the closed session summary. Vice Chair Ruge seconded the motion. The minutes were approved unanimously.

APPLICATIONS FOR REVIEW

23-51 Minary's Dream Alliance Inc. – Major Site Plan (Preliminary)

The applicant withdrew this application prior to the meeting.

24-17 MDL 153 Mason Solar – Major Site Plan (Concept)

Mr. Mark Carper, Associate Planner, provided background information and staff comments related to the proposed 1 MW utility-scale solar energy system on a 335-acre farm zoned AZD.

Representatives from Pivot Energy and the project's attorney responded to questions and concerns raised by the Planning Commission and members of the public regarding screening, visual impacts, glare, electromagnetic fields, stormwater management, economic benefits, and the eligibility criteria for low to moderate income subscribers.

Adopted on [insert date]

DRAFT

Discussion of the immediately neighboring, historical, African American church led to the recommendation that the applicant utilize berms to screen the view of the proposed solar field from the historic church and cemetery.

Concept site plans receive only comments from the Planning Commission for the applicant's use in preparing for the preliminary site plan. No motion was offered.

24-18 MDL 153 Mason Solar – Special Exception

Based on the site plan discussion and after further discussion, Ms. Reeder moved to send a favorable recommendation for the special exception to the Kent County Board of Zoning Appeals with the following conditions: 1) that they provide evidence that the glare or reflection onto adjacent properties and adjacent roadways shall not interfere with traffic or create a safety hazard, and 2) they demonstrate that the proposed energy system will not interfere with the view of or from sites of significant public interest, and that the proposed development integrates into the existing landscape.

The motion was seconded by Vice Chair Ruge. The motion passed 6-1, with Chair Hickman opposed.

GENERAL DISCUSSION

Town of Betterton Annexation Request

Mr. Mackey presented the staff report related to the proposed request for annexation by the Town of Betterton.

Mr. Crowding moved to send a favorable recommendation to the Board of County Commissioners for the Town of Betterton's request to annex the American Legion property (Tax Map 4, Parcels 88 and 130), and to include a waiver of the five-year zoning designation. Ms. Reeder seconded the motion. The motion passed unanimously.

Map Change Requests for Review by Planning Commission

The Planning Commission reviewed several map change requests and made recommendations to the County Commissioners as follows:

Re #4 Harris / Chandler property (Map 12, Parcel 92), Mr. Crowding moved to send a favorable recommendation to change the zoning of the portion currently zoned Resource Conservation District to Critical Area Residential. Ms. Reeder seconded, and the motion passed unanimously.

Re #15 Lindauer property (Map 28, Parcels 31, Lot 2), Mr. Crowding moved to send a favorable recommendation to change the zoning of Lot 2 and Parcel 97 from Industrial to AZD. Mr. Vice Chair Ruge seconded, and the motion passed unanimously.

Re #33 Mills properties (Map 13, Parcels 109 and 33A), Mr. Crowding moved to send a favorable recommendation to change the zoning of Parcel 109 and Parcel 33A from AZD to Commercial. Mr. Strong seconded, and the motion passed unanimously.

Re #1 Brayton Family properties (Map 37, Parcel 76 and Parcel 97), Mr. Crowding moved to send a favorable recommendation to change the zoning from Intense Village to Commercial. Mr. Strong seconded, and the motion passed unanimously.

DRAFT

RE #41 Hoagland property (Map 36, Parcel 24, Parcel 1, re applicant's request), Mr. Crowding moved to send a favorable recommendation to change the zoning from Community Residential to Village. Ms. Reeder seconded, and the motion passed unanimously.

Re Map D, the Hoagland property (Map 36, Parcel 24, a portion of Parcel 2, re staff request), Mr. Crowding moved to send a favorable recommendation to change the zoning on a portion of Parcel 2 from Community Residential to AZD. Mr. Strong seconded, and the motion passed unanimously.

Re #34 Kelly property (Map 51, Parcel 378), Mr. Crowding moved to send an unfavorable recommendation to change the zoning from Village to AZD. Vice Chair Ruge seconded, and the motion passed unanimously.

Re #35 Good House LLC properties (Map 27, Parcels 454, 470, 516, 577, and 691), Mr. Crowding moved to send an unfavorable recommendation to change the zoning from Critical Area Residential or Community Residential to Village. Vice Chair Ruge seconded, and the motion passed unanimously.

Re #36, Weinstein property (Map 7, Parcel 15B), Mr. Crowding moved to send an unfavorable recommendation regarding the requested change to the zoning district from Community Residential to Commercial. Vice Chair Ruge seconded, and the motion passed 6-0 with one abstention by Ms. Reeder.

Re #37 North property (Map 44, Parcel 110), this request was recommended to be added to the no-change list.

Re #38 Standiford / Yasinsky property (Map 45, Parcel 48, Lot 2), Ms. Reeder moved to send an unfavorable recommendation regarding the requested change from Resource Conservation District to Critical Area Residential. Mr. Crowding seconded, and the motion passed unanimously.

Re #39 Orr Property (Map 1, Parcel 302), Ms. Reeder moved to send an unfavorable recommendation regarding the requested change from Critical Area Residential to Community Residential. Mr. Strong seconded, and the motion passed unanimously.

Re #42 Kendall property (Map 48, Parcel 48), Mr. Crowding moved to send a favorable recommendation regarding the requested change from Community Residential to AZD. Mr. Strong seconded, and the motion passed unanimously.

Ms. Gerber read the consent list that includes all the applications for which no change in the zoning was requested. The consent list is attached to these minutes including an annotation that was added during the meeting.

Ms. Reeder moved to accept the list of "no change" requests as presented. Mr. Crowding seconded the motion, and it passed unanimously. The list is amended to these minutes with a notation added during the meeting.

Staff also presented a series of proposed map changes to correct zoning designations based on updated Critical Area mapping or due to property line adjustments since 2003. The Commission made favorable recommendations on Map A (Map 51, Parcel 169 Crosby area), Map B (Galena area), Map C (Betterton area), Map E (Golts area), Map F (Massey area), Map G (Chesterville Forest area), Map H (Harmony Corner / Molly's area), Map I (Kennedyville area), Map J (Still Pond area), and Map K (Coleman area).

Re Map A (Crosby area) Mr. Crowding moved to rezone to Village a portion of Map 51, Parcel 169, Lot 1 and Lot 2, to extend the Village zoning boundary from the northeast corner of Parcel 482 to the southeast corner of Parcel 202. Mr. Strong seconded, and the motion passed unanimously.

DRAFT

Re Map B (Galena area), Mr. Crowding moved to rezone the properties as indicated on Map B, due to changes in the Critical Area (affecting multiple parcels including Map 7, Parcels 4 and 349; Map 15, Parcels 2, 159, and 240, *et al*). Mr. Strong seconded, and the motion passed unanimously.

Re Map C (Betterton area), Mr. Crowding moved to send a favorable recommendation to do the clean-up of the Critical Area designations of the parcels on Map C (affecting multiple parcels including Map 4, Parcels 16, 19, 88, 140, *et al*). Ms Reeder seconded, and the motion passed unanimously.

Re Map E (Golts area), Ms. Reeder moved to amend the zoning on (Map 17) Parcel 116, owned by DNR in Golts, to make the entire parcel AZD. Mr. Crowding seconded, and the motion passed unanimously.

Re Map F (Massey area), Ms. Reeder moved to make all of (Map 16) Parcel 31 Employment Center. Mr. Strong seconded, and the motion passed unanimously.

Re Map G (Chesterville Forest area), Mr. Crowding moved to accept staff's rezoning request on (Map 31) Parcel 143 to rezone all of the parcel to Community Residential. Vice Chair Ruge seconded, and the motion passed unanimously.

Re Map H (Harmony Corner / Molly's), Mr. Crowding moved to send a favorable recommendation to rezone all of Lot 2 of (Map 14) Parcel 76 to Commercial zoning. Vice Chair Ruge seconded, and the motion passed unanimously.

Re Map I (Kennedyville area), Mr. Crowding moved to accept staff's rezoning request to rezone all of Map 21, Parcel 163 to AZD. Mr. Strong seconded, and the motion passed unanimously.

Re Map J (Still Pond area), Mr. Crowding moved to accept staff's rezoning request to change the zoning on Parcel 38A to all Commercial. Mr. Jones seconded, and the motion passed unanimously.

Re Map K (Coleman area), Mr. Crowding moved to accept staff's rezoning request to change the portion of Parcel 89 that is currently zoned Village to AZD. Vice Chair Ruge seconded, and the motion passed unanimously.

Ms. Gerber presented S&L Farms, LLC. Mr. Crowding moved to send a favorable recommendation to leave the zoning as is, for the property on Map 44, Parcel 313. Vice Chair Ruge seconded, and the motion passed unanimously.

STAFF REPORTS

Mr. Mackey summarized the role of staff in preparing recommendations for the Planning Commission's review.

ADJOURN

Vice Chair Ruge made a motion to adjourn. Mr. Jones seconded. The meeting adjourned at 4:30 p.m.

/s/ Joe Hickman
Joe Nickman, Chair

/s/ Bill Mackey
William Mackey, AICP, Director

Please note that a small portion of this document was created by Claude 3 from Anthropic, utilizing a transcript created by Microsoft Teams. Due to many highly-detailed motions, these minutes were created mostly by a human.

MAP #	OWNNAME1	LOT	MAP	PARCEL	Current	Change	Notes
11	F & S OPERATIONS LLC	3	0037	0485	IV	IV	Owner would like the zoning to stay the same.
11	HORSEY JOAN OZMAN		0037	0180	IV	IV	Owner wanted to make sure zoning stays the same.
11	JIMSTOWN LLC		0037	0044	IV	IV	Owner wanted to make sure zoning stays the same.
11	JIMSTOWN LLC		0037	0177	IV	IV	Owner wanted to make sure zoning stays the same.
11	LONDON WALTER F & TRACYE S	1	0037	0485	IV	IV	Owner wanted to make sure zoning stays the same.
11	SMITH SCOTT O & SHARI C	2	0037	0485	IV	IV	Owner wanted to make sure zoning stays the same.
11	SMITH TODD B & SMITH DIANE H	4	0037	0485	IV	IV	Owner wanted to make sure zoning stays the same.
16	LINS THOMAS IRVIN & DONNA MARIE		0027	0019	AZD	AZD	Owners wanted to make sure their zoning stays the same.
17	MACIELAG JOHN F & PATRICIA M		0055	0088	CAR	CAR	Owner wanted to make sure their zoning stays the same.
19	MAYO MARY JANE		0016	0006	EC	EC	Owner wanted to make sure their zoning stays the same.
22	SCHWARTZ JOHN A & SCHWARTZ PAMELA M		0020	0003	AZD	AZD	
23	SISCO ELIZABETH C		0046	0038	V	V	Owner wanted to make sure their zoning stays the same.

41	HOAGLAND ROY P		0035 D	0301	CC	C	Owner wanted to make sure zoning stays the same
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John North 7490 QNR



To: Kent County Planning Commission
 From: Carla Gerber, Deputy Director
 Meeting: June 6, 2024
 Subject: Everton Industrial – Preliminary Site Plan Review

Executive Summary

Request by Applicant

Everton Industrial is requesting preliminary site plan review for two proposed manufacturing/warehouse buildings on newly created lots near the interchange of US 301 and MD 291.

Public Process

Per Article VI, Section 5 of the Kent County *Land Use Ordinance* the Planning Commission shall review and approve site plans.

Summary of Staff Report

The parent parcel is bisected by US 301 with 114.499 acres on the west side of the highway and approximately 98 acres on the east side. Two new lots are being created from the western tract via a minor subdivision. Because some setbacks are approved as part of subdivision review for industrial subdivisions, staff is recommending that the subdivision be approved by the Planning Commission at final site plan review. The proposed manufacturing/warehouse buildings will be located on the new parcels. The lots will be purchased from Millington Crossing Associates One, LLC and developed by Everton Industrial Development. Lot 1 will be 20.543 acres and Lot 2 will be 20.665 acres. Both lots have frontage along Edge Road and Lot 1 also has frontage on Chesterville Bridge Road. Both buildings will be 256,924 square feet and will be served by public sewer and water. Parking for employees and visitors will be located in the front of the buildings, and trailer parking will be provided to the side and rear of the buildings. Each building will have 45 loading dock spaces. As suggested by Robert Baldwin, District Manager for the Kent Soil and Water Conservation District, sediment and erosion control and stormwater management will be reviewed collaboratively between the County and the District.

The applicant has sufficiently addressed all preliminary site plan standards as prescribed by the Kent County Land Use Ordinance.

Staff Recommendation

Staff recommends that the Planning Commission approve the requested setbacks and waive the requirement that “curb cuts” be at least 3,000 feet apart. Staff also recommends that the Planning Commission grant preliminary approval.

PRELIMINARY STAFF REPORT

TO: Kent County Planning Commission
 SUBJECT: Everton Industrial – Preliminary Site Plan Review
 DATE: May 31, 2024

DESCRIPTION OF PROPOSAL

Everton Industrial is requesting minor subdivision approval and preliminary site plan review for two proposed manufacturing/warehouse buildings on newly created lots near the interchange of US 301 and MD 291. The parent parcel is bisected by US 301 with 114.499 acres on the west side of the highway and approximately 98 acres on the east side. The western side is zoned Employment Center, Agricultural Zoning District, and Resource Conservation District; the eastern side is zoned Commercial and Resource Conservation District. Two new lots are being created from the western tract via a minor subdivision which staff is recommending be approved by the Planning Commission at final site plan review. The proposed manufacturing/ warehouse buildings will be located on the new parcels and will be within the Employment Center district. Lot 1 will be 20.543 acres and Lot 2 will be 20.665 acres. Both lots have frontage along Edge Road, and Lot 1 also has frontage on Chesterville Bridge Road. Both buildings will be 256,924 square feet and will be served by public sewer and water. Parking for employees and visitors will be located in the front of the buildings, and trailer parking will be provided to the side and rear of the buildings. Each building will have 45 loading dock spaces. The buildings will be constructed as flex space and at this time information on potential tenants is not available.

GENERAL STANDARDS

- I. Permitted Uses and Height, Area, and Bulk Requirements
- A. *Applicable Laws:* Article V, Sections 14.2 of the *Kent County Land Use Ordinance* establish site plan review requirements for all permitted industrial uses in the Employment Center. The use proposed by the applicant is permitted as follows:

Distribution center and warehousing provided that a single building footprint does not exceed 75,00 square feet in size. The restriction on building footprint does not apply to the Employment Center District in the Route 301 corridor. In reviewing the site plan, the *Planning Commission*, or where applicable the Planning Director, shall consider the following:

- a. The impact of the proposed business or industry on existing or planned public facilities.
- b. The impact of the operation of facility on the surrounding area.
- c. The health, safety and welfare of employees and residents of the neighborhood.

Article V, Sections 14.5 of the *Kent County Land Use Ordinance* establishes the density, height, width, bulk, and fence requirements for the Employment Center District.

Minimum Yard	Standard	Industrial Subdivision
Front - Primary Roads	100 feet*	100 feet*
Front – Other roads	Per subdivision review	<i>Per subdivision review</i>
Side and Rear –		
Adjacent to I, ICA, and EC	15 feet	<i>Per subdivision review</i>
Adjacent to AZD and RCD	40 feet	<i>Per subdivision review</i>
Adjacent to Public Road	100 feet^	100 feet^
Height – Industrial structure in 301 Corridor	60 feet	60 feet

Maximum Building Footprint	NA	NA
Route 301 Corridor		

*When a side or rear lot line coincides with a side or rear lot line of a property in a non-industrial zone, the required yard shall be landscaped and screened and shall be unoccupied by buildings, structures, or parking area.

^ May be reduced or increased during site plan review.

- B. *Staff and TAC Comments:* The minor subdivision is considered an Industrial Subdivision. The parcels do not front onto a primary road. For Lot 1, which is a corner lot, Chesterville Bridge Road is the technical front yard, and the applicant is requesting a 50-foot front setback. The applicant is requesting a 15-foot setback along Edge Road which is consistent with the Land Use Ordinance requirement that there shall be a front yard of at least 15 feet on the side street of a corner lot in any district. For Lot 2, the applicant is requesting a 50-foot front setback along Edge Road. For the side and rear setbacks on both lots, which abut other land zoned Employment Center, the applicant is requesting a 15-foot setback which is consistent with the Standard Subdivision requirements. In this zoning district, setbacks are applied to parking as well as buildings.

Staff is requesting that the Planning Commission approve the requested setbacks. Given the location along US 301 and existing screening, a reduction of the front setback requirement is appropriate. In addition, the applicant is proposing to locate the buildings as far back as possible on the lots, with the parking between the road and the buildings.

II. Employment Center and Industrial Performance Standards:

- A. *Comprehensive Plan:* "Insure that future development, redevelopment, and infill is completed in an environmentally and context sensitive manner." (Page 31)
- B. *Applicable Law:* Article V, Section 14.6 of the *Kent County Land Use Ordinance* establishes the EC performance standards. These performance standards address noise, vibration, glare, air pollution, water pollution, radioactivity, electrical interference, smoke and particulate matter, toxic matter, and odor with compliance certified in an engineer's report.

A Certified Engineer's Report is required to prove that the uses proposed will not cause violations of Federal, State, or County laws or regulations and which must describe the proposed operation, all machines, processes, products and by-products, stating the nature and expected levels of emission or discharge to land, air, water or liquid, solid, or gaseous effluent and electrical impulses, vibrations and noise under normal operations and the specifications or treatment methods and mechanisms to be used to control such emission or discharge.

- C. *Staff and TAC Comments:* The applicant is requesting that the Certified Engineer's Report be a condition of obtaining building and/or use permits. The applicant is aware of the standards and understands that all tenants must comply with the performance standards and submit the report.

III. Employment Center General Standards

- A. *Comprehensive Plan:* "Promote the development of County employment centers." (Page 11)

B. *Applicable Law:* Article V, Section 14.7 of the *Kent County Land Use Ordinance* establish the EC general standards as follows:

1. As a part of the site plan review, the applicant shall submit a statement that includes an explanation of the following:
 - a. The type of raw materials, waste products, and other by-products associated with the process.
 - b. The identity of all chemicals and solids to be discharged into the sewage system.
 - c. The type and amount of traffic expected to be generated by the operation.
 - d. The proposed hours of operation.
 - e. The proposed architectural design (graphic or narrative) of all structures.
2. The Planning Commission may require additional standards and requirements to those stated in this Article as are necessary for the protection of the environment and the health and safety of the citizens of the County.
3. The use established shall not create or be a continuation of highway “strip” development with multiple access points creating highway hazards and visual clutter in so far as practical. A highway strip is two or more access points or “curb cuts” off of an existing State or County Road within 3,000 feet of each other. Any use in an employment center district shall have access at least 3,000 feet from any highway strip, in so far as possible. The Planning Commission may waive this requirement when the Commission finds all of the following:
 - a. The proposal complies with the spirit and intent of the Land Use Ordinance and the Comprehensive Plan.
 - b. That the waiver will not cause a substantial detriment to adjacent or neighboring property.
 - c. That the waiver will not create a safety hazard or increase traffic congestion.
 - d. The waiver is the minimum necessary to relieve a practical difficulty and is not sought for reasons of convenience, profit or caprice.
4. Central water and sewer systems may be required by the Planning Commission in an Employment Center District. If a public system is available, use of such system shall be mandatory.
5. Signs in industrial areas shall be permitted in accordance with the regulations contained in Article VI, Section 2 of this Ordinance.
6. In so far as possible, all uses shall be conducted within a completely enclosed structure or be completely screened. Outdoor storage of materials and unfinished products is prohibited unless otherwise approved by the Planning Commission and subject to such conditions as may be determined by the Planning Commission.

C. *Staff and TAC Comments:*

- §14.7.1: The applicant is constructing a flex space building and no information on potential tenants has been provided. No information is known at this time concerning the types of materials and products that will be handled or hours of operation. Additional information will be required for final review. A traffic study and architectural elevations have been submitted.
- §14.7.3: The applicant is proposing multiple “curb cuts” for each parcel in order to keep traffic separated. Lot 1 will have two “curb cuts.” One on Chesterville Bridge Road and one on Edge Road. The entrance on Chesterville Bridge Road will be angled in such a way that all vehicles will be forced to turn toward US 301 when leaving. Lot 2 will have three “curb cuts” with 200-300 feet between each one. SHA is in the process of transferring the right of way for Edge Road to the County. However, SHA has reviewed the entrances and “has determined that distances between entrances are acceptable as proposed, provided the sight distance clearing

is approved and performed.” The Planning Commission will need to determine if a waiver is appropriate to allow multiple “curb cuts” that are less than 3,000 feet apart.

- §14.7.4: The proposed buildings will be served by public sewer and water. The Comprehensive Water and Sewerage Plan will need to be amended and it is likely that the project will need to be phased based on the tenants. The availability of sewer allocations may limit the amount of initial development and use of the proposed structures.
- §14.7.5: The location of a monument sign for each lot has been noted on the plans. No additional information on signs has been provided.
- §14.7.6: All uses will be conducted within the proposed buildings. If outdoor storage of material or unfinished products is needed, then the Planning Commission would have to approve this change.

IV. Environmental Standards

A. *Comprehensive Plan*: “Promote the use of best management practices such as stormwater management” (Page 61)

B. *Applicable Law*: Article V, Section 14.8 of the *Kent County Land Use Ordinance* establish the EC environmental standards which include forest conservation, nontidal wetlands, stream protection corridor, stormwater management, and water quality standards.

C. *Staff and TAC Comments*:

- §14.8.B.3 and Article VI, Section 8: The applicant has submitted a Forest Stand Delineation and Forest Conservation Plan as part of the subdivision application. The applicant will be deed restricting an area of forest for the net tract area being subdivided and for the area to be cleared. The total easement area will be 8.35 acres: 6.41 acres for the subdivision to meet the 15% forest cover requirement and 1.94 acres to mitigate at a rate of 0.25 acres for each acre cleared for the 7.75 acres to be cleared. The proposed clearing does not include sensitive areas such as floodplain, nontidal wetlands, stream protection corridors, or steep slopes. The field sampling sites did not identify any trees with diameters over 30 inches measured at 4.5 feet above the ground. The proposed clearing does not include any trees, shrubs, or plants that have been identified as rare, threatened, or endangered. The Forest Stand Delineation has a letter from DNR Wildlife and Heritage Service which includes guidelines that should be incorporated into the plan to protect Forest Interior Dwelling Bird (FIDS) habitat. Most of the guidelines are not applicable because the clearing is limited to the forest edge. DNR does recommend that clearing be restricted to within 300 feet of the existing forest edge, and with one exception due to a unique property line, the proposed clearing is less than 300 feet into the forest. The deepest point of clearing is 350 feet into the forest in one small area.
- §14.8.B.4-7: The majority of the existing forest is being retained which will preserve wildlife corridors. The applicant is proposing to create a 200-foot-wide forested buffer along Mill Branch, and the non-tidal wetlands and steep slopes have been delineated and will not be disturbed. Mill Branch is not considered a natural heritage area or Area of Critical State Concern.
- §14.8.B.8-10: As suggested by Robert Baldwin, District Manager for the Kent Soil and Water Conservation District, sediment and erosion control and stormwater management will be reviewed collaboratively between the County and the District. Preliminary stormwater management plans and calculations and preliminary sediment and erosion control plans have been submitted. Water quality will comply with the stormwater management regulations.

V. Design Standards

- A. *Applicable Law:* Article V, Section 14.9 of the *Kent County Land Use Ordinance* establishes the EC design standards which address site access, landscaping, screening, and lighting. Site access should ensure vehicle and pedestrian safety and alleviate congestion. The applicant should demonstrate that access to the project is adequate and the roads which will be impacted have the capacity to handle the traffic generated by the proposed project and will not endanger the safety of the general public.

Screening is required to protect adjoining properties and roadways from noise, glare, and uses which are visually incompatible with neighboring land uses. Screening is also required where exterior storage areas are visible from roadways, sidewalks, or nearby residential properties, or where the Planning Commission determines that additional screening is necessary to protect properties in the area. When required, the screen shall be capable of providing year-round screening and consist of coniferous and deciduous trees and plants, species and sizes of which will be chosen to best accomplish an adequate screen (i.e. evergreens used for visual screening, deciduous trees for seasonal screening). Screening may include masonry, or wooden fencing used with or without berms. Screening and fencing shall be maintained in at least the same quality and quantity as initially approved.

Lighting on the site should be sufficient to provide for the safety and security of the business, its employees, and its customers. Lighting should also be designed to avoid glare onto adjacent properties and adjacent roadways and not interfere with traffic or create a safety hazard

B. *Staff and TAC Comments:*

- §14.9.B.1: The proposed development does not have frontage on a primary road. Given the location of Mill Branch and other site conditions, requiring connections between the proposed lots or adjacent parcels does not contribute to traffic circulation or safety. A traffic study has been provided and approved by SHA.
- §14.9.B.2: Onsite vehicular circulation has been designed to avoid conflicts between large trucks and passenger vehicles. The loading spaces and trailer parking does not block passage of other vehicles and is separated from sidewalks and passenger vehicle parking. Handicap parking is provided. Parking is not located within the proposed front yard setback.
- §14.9.B.4 and 5: Preliminary landscaping plans have been submitted. There is already significant mature screening around much of the property. The rears of both lots back onto the 200-foot protected stream corridor. Much of the front of the properties is screened from US 301 by existing vegetation on a parcel owned by SHA. The applicant will be providing additional screening where necessary. The landscaping uses native species and has a mix of plant types to provide seasonal interest and to avoid monoculture rows of trees. The road frontages and parking lots will be landscaped and kept in a neat and attractive condition.
- §14.9.B.6: A lighting plan has been submitted. The light poles will be 30 feet tall, and the light analysis shows that the glare does not extend onto adjacent properties.

VI. Parking and Loading

- A. *Applicable Law:* Article VI, Section 1 of the *Kent County Land Use Ordinance* establishes the parking, loading, and bicycle parking standards.

- B. *Staff and TAC Comments*: The applicant proposes parking and loading spaces that meet or exceed the minimum requirements. Parking for industrial uses and warehousing requires 1 space per 2 employees in the principal shift and 1 loading/unloading space per 20,000 square feet which is 13 spaces per building. The building on Lot 1 is proposed to have 260 employees, which would require 130 parking spaces. The site plan shows 134 spaces, with 5 that are handicap accessible. The loading dock has 45 spaces and there are 112 trailer parking spaces. The building on Lot 2 is proposed to have 230 employees, which would require 115 spaces. The site plan shows 115 spaces, with 5 that are handicap accessible. The loading dock has 45 spaces. Bicycle parking has not been shown on the site plan. One bicycle parking space is required for every 20 required auto parking spaces. Bicycle parking may be met by providing lockers or racks inside a building, adjacent to the building, in an accessory parking lot, or underneath an awning or marquee.

SITE PLAN REVIEW

- A. *Comprehensive Plan*: “Require developers to engage and inform citizens during the development review process through the incorporation of a participation program.” (Page 27)
- B. *Applicable Law*: Article VI, Section 5 of the *Ordinance* establishes the procedures and standards for site plan review. The Planning Commission shall prepare findings of fact concerning the reasonable fulfillment of the objectives listed below.
1. Conformance with the Comprehensive Plan and, where applicable, the Village Master Plan.
 2. Conformance with the provisions of all applicable rules and regulations of county, state, and federal agencies.
 3. Convenience and safety of both vehicular and pedestrian movement within the site and in relationship to adjoining ways and properties.
 4. Provisions for the off-street loading and unloading of vehicles incidental to the normal operation of the establishment, adequate lighting, and internal traffic control.
 5. Reasonable demands placed on public services and infrastructure.
 6. Adequacy of methods for sewage and refuse disposal, and the protection from pollution of both surface waters and groundwater. This includes minimizing soil erosion both during and after construction.
 7. Protection of abutting properties and County amenities from any undue disturbance caused by excessive or unreasonable noise, smoke, vapors, fumes, dust, odors, glare, stormwater runoff, etc.
 8. Minimizing the area over which existing vegetation is to be removed. Where tree removal is required, special attention shall be given to planting of replacement trees.
 9. The applicant’s efforts to integrate the proposed development into the existing landscape through design features such as vegetative buffers, roadside plantings, and the retention of open space and agricultural land.
 10. The applicant’s efforts to design the development to complement and enhance the rural and historic nature of the County including incorporating into the project forms and materials that reflect the traditional construction patterns of neighboring communities.
 11. The building setbacks, area, and location of parking, architectural compatibility, signage, and landscaping of the development, and how these features harmonize with the surrounding townscape and the natural landscape.

C. *Staff and TAC Comments (and Potential Findings):*

1. The proposal is consistent with many strategies and goals of the Comprehensive Plan, such as “Promote the development of County employment centers.” (Page 11).
2. To the best of our knowledge, the subdivision and site plans conform with the provisions of all applicable rules and regulations. The Planning Commission would need to grant approval of the setbacks and “curb cuts”.
3. Onsite vehicular circulation appears to promote clearly defined access to loading and trailer parking areas and the employee/visitor parking areas. Multiple entrances per parcel help to achieve this separation. Sidewalks across the front of the buildings promote safe pedestrian movement.
4. Provisions have been made for off-street loading and unloading. Adequate lighting is proposed and provisions for safe internal traffic flow have been included.
5. There are no known unreasonable demands on public services or infrastructure. The Planning Commission may wish to consider requiring some type of road maintenance concession.
6. The applicant is working with the Department of Public Works. The Comprehensive Water and Sewerage Plan will need to be amended. DPW is in discussion with the developer regarding available water and sewer service capacity and the extent of off-site improvements to water, sewer, and roads that will be necessary.
7. Stormwater management must be addressed in accordance with Article VI, Section 10. The plan and affiliated sureties must be approved prior to final site plan approval.
8. Sediment control must be addressed in accordance with Article VI, Section 9. The plan and affiliated sureties must be approved prior to final site plan approval.
9. Any proposed use will be required to submit a Certified Engineer’s Report and must comply with the standards for noise, smoke, vapors, fumes, dust, odors, and glare.
10. A landscape plan has been prepared which will provide screening protection to abutting properties. The landscape plan must be finalized; sureties must be submitted prior to final site plan approval.
11. No parks or other places of public gathering are in the immediate vicinity.
12. The applicant has tried to integrate the proposed development into the existing landscape through the retention of existing vegetation. Site perspectives showing the proposed development from Route 301 and building elevations have been provided.
13. The landscape plan uses native species and includes a mix of plants to provide seasonal interest.
14. At the request of staff to consider expanding aesthetic elements in the building design that would add visual interest such as incorporating colors of the adjacent forest and interesting patterns to draw the eye across the façades, the applicant added a green and blue “ribbon” across the front of the proposed buildings. The Planning Commission may wish to discuss if this feature is sufficient to address the design standards.
15. A Citizen Participation meeting was held on October 19th.

STAFF RECOMMENDATION

Staff recommends that the Planning Commission approve the requested setbacks and waive the requirement that “curb cuts” be at least 3,000 feet apart. Staff also recommends that the Planning Commission grant preliminary approval.



Davis, Moore, Shearon & Associates, LLC

May 24, 2024

Mr. William Mackey, Planning Director
Kent County Department of Planning & Zoning
400 High Street
Chestertown, Maryland 21620

**RE: MINOR SUBDIVISION PLAT AND FOREST CONSERVATION PLANS ON THE
LANDS OF MILLINGTON CROSSING ASSOCIATES 1, LLC
KENT COUNTY TAX MAP 31, PARCEL 6-1
DMS & ASSOCIATES JOB #2021165**


Dear Mr. Mackey,

Attached please find seven copies of the plats for the above referenced project. Based on the latest TAC comments dated May 8, 2024, no revisions were needed. We have modified the configuration of the forest retention area slightly to accommodate the sight distance requested by MDOT SHA. The plats have been signed and sealed by the surveyor of record.

We ask that you review this information for placement on the June 6, 2024, Planning Commission agenda. If you have questions or need additional information, please call me at 443-262-9130.

Sincerely,

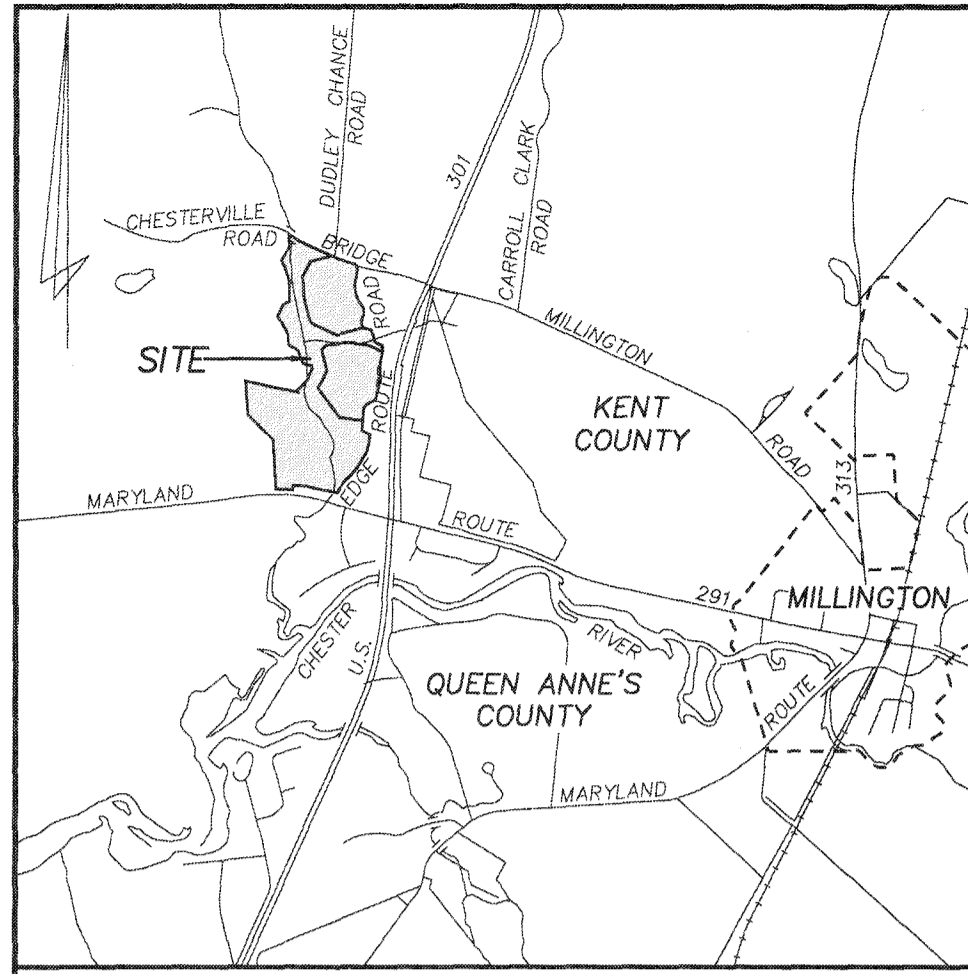
DMS & Associates, LLC



Kevin J. Shearon, P.E., LEED AP

Enclosures

pc: Mr. Russ Richardson, Millington Crossing Associates One, LLC (via email)
Mr. Kevin Vitelli, Esq. (via email)
Mr. Dan Gural, Everton Industrial (via email)



VICINITY MAP

SCALE 1" = 3000'

SITE NOTES

- PROPERTY LINE INFORMATION FOR P. 6-1 SHOWN HEREON IS THE RESULT OF A FIELD RUN SURVEY BY MICHAEL A. SCOTT, INC. IN JUNE, 2017. HORIZONTAL DATUM IS NAD 83.
- FOR DEED REFERENCE, SEE LIBER M.L.M. 892, FOLIO 45B. NO PREVIOUS SUBDIVISIONS HAVE OCCURRED ON PARCEL 6.
- CURRENT ZONING CLASSIFICATION - "RCD" (RESOURCE CONSERVATION DISTRICT, "AZD" (AGRICULTURAL ZONING DISTRICT) AND "EC" (EMPLOYMENT CENTER).
- THE PROPERTY IS PARTIALLY LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA DESIGNATION - RCA (RESOURCE CONSERVATION AREA).
- SITE IS PARTIALLY LOCATED WITHIN 100 YEAR FLOODPLAIN AS SCALED FROM FLOOD INSURANCE RATE MAP COMMUNITY PANEL No. 24029C213D (ZONE "A"), DATED JUNE 9, 2014.
- SOILS SHOWN HEREON ARE SCALED FROM MAPS LOCATED AT THE FOLLOWING WEBSITE: <http://websoilsurvey.nrcs.usda.gov> FOR KENT COUNTY. HYDRIC SOILS ON SITE ARE - Bs & Oh.
- THE PERENNIAL STREAM SHOWN HEREON IS SCALED FROM MARYLAND ENVIRONMENTAL RESOURCES AND LAND INFORMATION NETWORK WEBSITE <http://gisapps.dnr.state.md.us/Merlin/index.html>.
- THE NONTIDAL WETLANDS SHOWN HEREON ARE TAKEN FROM A REPORT PREPARED BY DAVIS & ASSOCIATES, ENVIRONMENTAL CONSULTING, LLC, DATE JUNE 17, 2022 AND OTHER MAPPED WETLANDS. DELINEATION SHOWN HEREON HAS BEEN SCALED FROM THE REPORT AND HAS NOT BEEN FIELD VERIFIED.
- STEEP SLOPES SHOWN HEREON ARE TAKEN FROM AERIAL TOPOGRAPHY FLOWN IN THE FALL OF 2013. VERTICAL DATUM IS NAVD 88.
- WOODLANDS WITHIN THE DEVELOPMENT AREA ARE THE RESULT OF A FIELD RUN SURVEY BY MICHAEL A. SCOTT, INC. IN FEBRUARY, 2023. WOODLANDS OUTSIDE THE DEVELOPMENT AREA ARE SCALED FROM ORTHO PHOTOS FLOWN IN THE FALL OF 2019 AND VERIFIED BY A SITE VISIT.
- THE PRESENCE OF ANY OTHER NATURAL RESOURCES (i.e., EROSION HAZARD AREAS, etc.) DO NOT EXIST ON THE SITE AS VERIFIED BY A SITE VISIT IN DECEMBER, 2018.
- THE MARYLAND DEPARTMENT OF NATURAL RESOURCES WILDLIFE AND HERITAGE SERVICE CONDUCTED AN ENVIRONMENTAL REVIEW OF THE SITE AND DETERMINED THAT THERE ARE NO OFFICIAL STATE OR FEDERAL RECORDS FOR LISTED PLANT OR ANIMAL SPECIES ON THE SITE. THE WILDLIFE AND HERITAGE SERVICE NOTED IN ITS RESPONSE LETTER, DATED JULY 20, 2022 THAT THE NO FORESTED AREA ON THE PROPERTY CONTAINS HABITAT FOR FOREST INTERIOR DWELLING BIRDS (FIDS).
- CONTOURS SHOWN HEREON ARE TAKEN FROM AERIAL TOPOGRAPHY FLOWN IN THE FALL OF 2013. VERTICAL DATUM IS NAVD 88.
- NEW PUBLIC SEWER WILL BE UTILIZED FOR SEWAGE DISPOSAL. NEW PUBLIC WATER WILL BE UTILIZED FOR POTABLE WATER SUPPLY AND FIRE SUPPRESSION.
- SITE REQUIREMENTS (INDUSTRIAL SUBDIVISION):**
 MINIMUM LOT SIZE = N/A
 FRONT BUILDING RESTRICTION LINE
 - 50' REQUESTED (NOT LOCATED ON "PRIMARY ROADS")
 SIDE BUILDING RESTRICTION LINE
 - 15' REQUESTED (PER "STANDARD" REQUIREMENTS)
 - 50' REQUESTED (ALONG "PUBLIC ROADS")
 REAR BUILDING RESTRICTION LINE
 - 15' REQUESTED (PER "STANDARD" REQUIREMENTS)
 BUILDING HEIGHT = 60'
 SECURITY FENCE HEIGHT = 8'
 MAXIMUM BUILDING SIZE = N/A

PERIMETER BOUNDARY COURSES AND DISTANCES

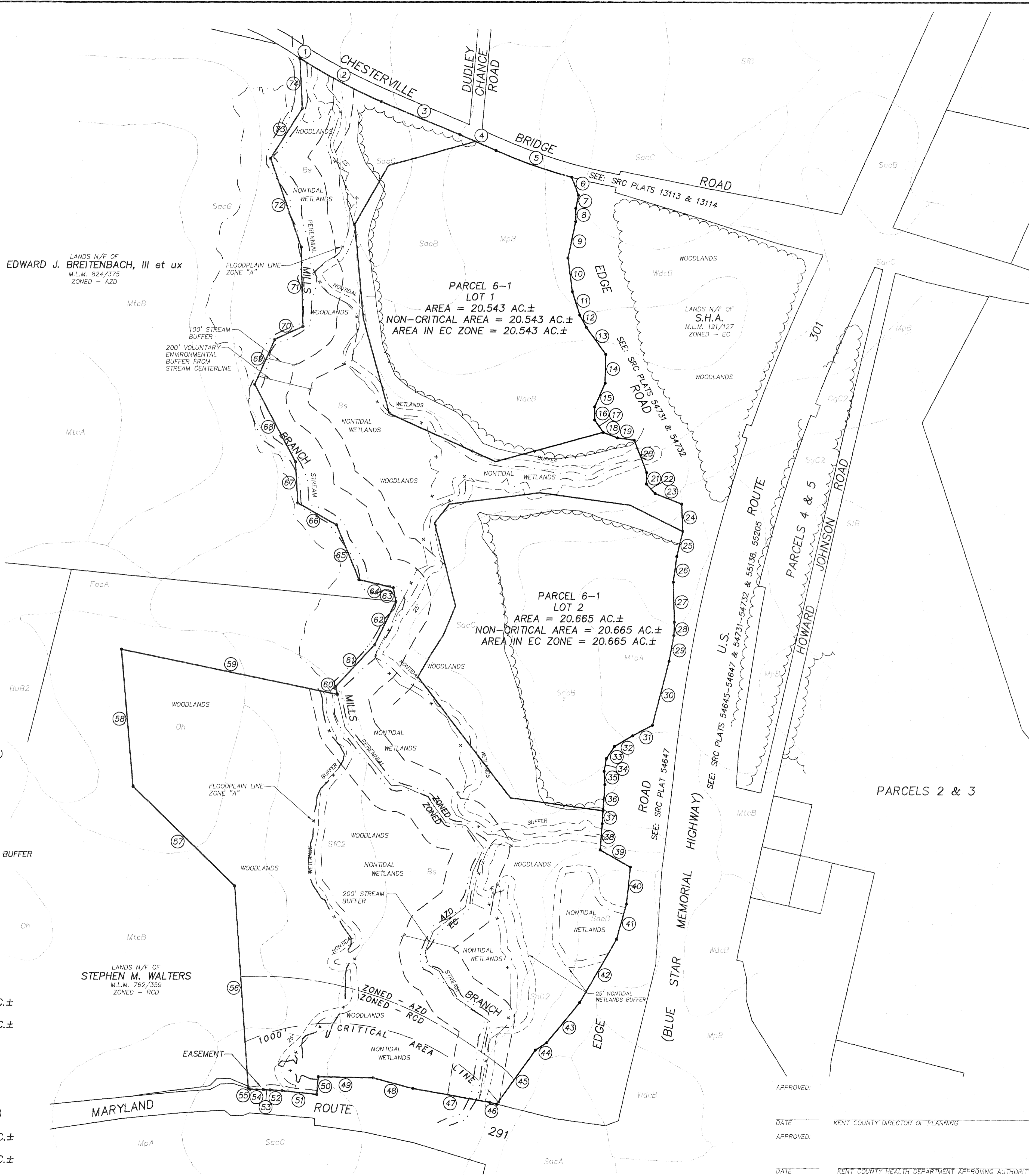
LINE	BEARING	DISTANCE
1	S 87°41'34" E	1.51'
2	S 02°21'18" E	352.90'
	R = 2182.12'	353.28'
3	S 66°59'35" E	326.95'
4	S 66°21'21" E	150.72'
5	S 70°39'12" E	307.67'
	R = 2052.82'	307.96'
6	S 20°30'34" E	73.87'
7	S 11°54'11" W	50.00'
8	S 00°55'35" W	50.99'
9	S 11°42'18" W	144.01'
10	S 07°20'51" E	129.32'
11	S 17°37'45" E	94.97'
12	S 28°15'11" E	51.90'
13	S 35°41'34" E	128.29'
14	S 01°15'22" W	111.22'
15	S 23°11'27" W	99.87'
16	S 00°07'11" W	50.77'
17	S 33°58'49" E	58.03'
18	S 68°40'47" E	58.60'
19	S 81°58'30" E	65.30'
20	S 20°54'55" E	133.03'
21	S 01°54'51" W	43.01'
22	S 42°19'28" E	50.50'
23	S 68°28'35" E	109.20'
24	S 02°21'44" E	105.02'
25	S 13°28'01" W	98.49'
26	S 07°48'59" W	100.00'
27	S 01°58'45" E	152.07'
28	S 02°06'21" W	50.25'
29	S 10°40'44" W	100.13'
30	S 14°39'33" W	251.79'
31	S 62°16'44" W	86.02'
32	S 59°22'45" W	80.43'
33	S 34°22'53" W	55.90'
34	S 10°06'25" W	50.04'
35	S 03°29'37" E	50.99'
36	S 04°22'58" W	100.18'
37	S 03°14'33" W	50.16'
38	S 04°22'58" W	100.18'
39	S 60°13'23" E	133.70'
40	S 05°56'11" W	142.56'
41	S 15°54'12" W	140.25'
42	S 30°18'58" W	280.31'
43	S 39°20'21" W	199.09'
44	S 56°03'57" W	52.20'
45	S 35°48'22" W	253.75'
46	N 78°14'08" W	27.75'
47	N 79°51'28" W	298.63'
48	N 75°01'11" W	157.13'
49	N 88°44'55" W	210.47'
50	S 04°59'46" W	68.07'
51	N 84°00'32" W	134.29'
52	N 86°13'17" W	45.78'
53	N 87°05'47" W	25.44'
54	N 88°02'02" W	50.87'
55	N 71°20'33" W	71.19'
56	N 03°51'09" W	778.07'
57	N 45°37'09" W	545.42'
58	N 04°49'35" W	525.33'
59	S 78°14'39" E	845.55'
60	N 11°59'39" W	30.93'
61	N 43°08'31" E	218.92'
62	N 26°05'41" E	183.60'
63	N 10°37'15" W	53.45'
64	N 76°44'35" W	134.76'
65	N 22°27'55" W	225.56'
66	N 60°27'05" W	171.71'
67	N 03°08'55" W	158.05'
68	N 27°39'55" W	336.87'
69	N 24°01'05" E	189.38'
70	N 65°08'05" E	118.58'
71	N 01°18'25" W	305.01'
72	N 19°07'05" W	359.26'
73	N 32°10'35" E	228.01'
74	N 02°50'27" W	190.14'

LEGEND

- DEED POINT (UNLESS OTHERWISE NOTED)
- AZD EC ZONING LINE
- EDGE OF EXISTING WOODLINE
- FLOOD PLAIN LINE
- PERENNIAL STREAM
- NONTIDAL WETLAND MARGIN
- 25' BUFFER FROM NONTIDAL WETLANDS BUFFER
- SOILS LINE AND TYPE

EXISTING PARCEL 6-1
 AREA = 114.499 AC.±
 NON-CRITICAL AREA = 110.454 AC.±
 CRITICAL AREA = 4.045 AC.±
 AREA IN EC ZONE = 81.307 AC.±
 AREA IN AZD ZONE = 25.787 AC.±
 AREA IN RCD ZONE = 7.406 AC.±
 NON-CRITICAL AREA IN EC ZONE = 81.307 AC.±
 CRITICAL AREA IN EC ZONE = 0.000 AC.±
 NON-CRITICAL AREA IN RCD ZONE = 3.361 AC.±
 CRITICAL AREA IN RCD ZONE = 4.045 AC.±

REMAINING PARCEL 6-1
 AREA = 73.291 AC.±
 NON-CRITICAL AREA = 69.246 AC.±
 CRITICAL AREA = 4.045 AC.±
 AREA IN EC ZONE = 40.099 AC.± (TOTAL)
 AREA IN AZD ZONE = 25.787 AC.± (TOTAL)
 AREA IN RCD ZONE = 7.406 AC.±
 NON-CRITICAL AREA IN EC ZONE = 40.099 AC.±
 CRITICAL AREA IN EC ZONE = 0.000 AC.±
 NON-CRITICAL AREA IN RCD ZONE = 3.361 AC.±
 CRITICAL AREA IN RCD ZONE = 4.045 AC.±



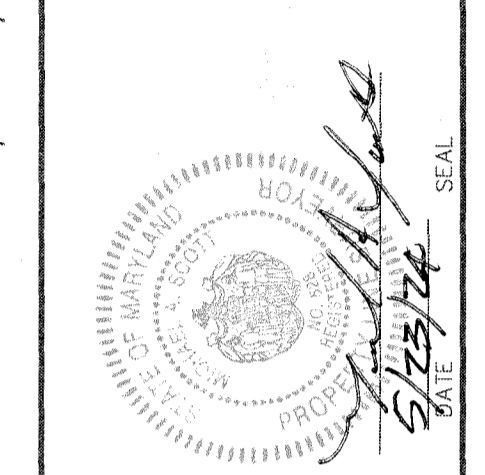
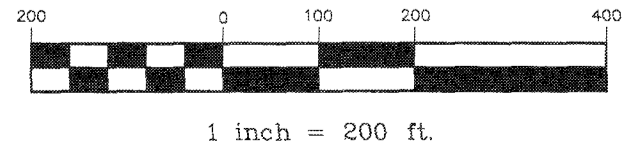
OWNER:
 MILLINGTON CROSSING ASSOCIATES 1, LLC
 c/o RUSS RICHARDSON
 P.O. BOX 546
 CHESTER HEIGHTS, PA 19017
 PHONE No. 1-410-275-2714

DEVELOPER/ CONTRACT PURCHASER
 EVERTON INDUSTRIAL
 c/o DAN GURAL
 266 ATSON ROAD
 MEDFORD, NEW JERSEY 08055
 PHONE No. 1-609-929-6025

SURVEYOR:
 MICHAEL A. SCOTT, INC.
 c/o MIKE SCOTT
 400 SOUTH CROSS STREET
 CHESTERTOWN, MARYLAND 21620
 PHONE No. 1-410-778-2310

ENGINEER:
 DMS & ASSOCIATES, LLC
 c/o KEVIN J. SHEARON, P.E. LEED AP
 P.O. BOX 80
 CENTREVILLE, MARYLAND 21617
 PHONE No. 1-443-262-9130

GRAPHIC SCALE



DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
 CENTREVILLE, MARYLAND 21617
MICHAEL A. SCOTT, INC.
 400 S. CROSS STREET CHESTERTOWN, MD 21620 (410)778-2310

REVISION	DATE
10-16-22 PER TAC COMMENTS	10-16-22
10-19-23 PER TAC COMMENTS	10-19-23

MILLINGTON CROSSING ASSOCIATES 1, LLC
 ON THE LANDS OF
 NEAR THE TOWN OF MILLINGTON
 TAX MAP - 31, GRID - 1E, PARCEL - 6-1
 FIRST ELECTION DISTRICT, KENT COUNTY, MARYLAND
 PREPARED FOR : EVERTON INDUSTRIAL

DATE	SCALE	MINOR SUBDIVISION PLAT
MARCH 23	1" = 200'	
JOB No. 202165	DRAWN BY J. MOORE	
FOLDER Ref. 31-202165	DESIGNED BY	
SHEET No. 1 OF 5		
CADD FILE - 2165-1		

APPROVED: _____
 DATE: _____ KENT COUNTY DIRECTOR OF PLANNING
 APPROVED: _____
 DATE: _____ KENT COUNTY HEALTH DEPARTMENT APPROVING AUTHORITY

PERIMETER BOUNDARY COURSES AND DISTANCES

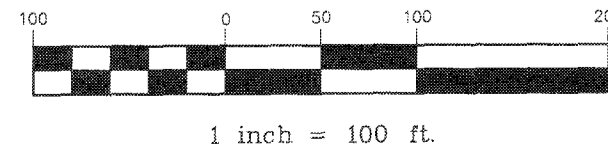
LINE	BEARING	DISTANCE
1	S 20°30'34" E	73.87'
2	S 11°54'11" W	50.00'
3	S 00°35'35" W	50.99'
4	S 11°42'18" W	144.01'
5	S 07°20'51" E	129.32'
6	S 17°37'45" E	94.97'
7	S 28°15'11" E	51.90'
8	S 35°41'34" E	128.29'
9	S 07°15'22" W	111.22'
10	S 23°11'27" W	99.87'
11	S 00°07'11" W	50.77'
12	S 33°58'49" E	58.03'
13	S 74°40'43" W	428.38'
14	N 65°19'17" W	447.97'
15	N 15°19'17" W	376.34'
16	N 05°09'55" W	365.29'
17	N 29°40'43" E	259.45'
18	N 74°40'43" E	345.59'
19	S 66°21'21" E	86.65'
20	S 70°39'12" E	307.67'
R = 2052.82'		L = 307.96'



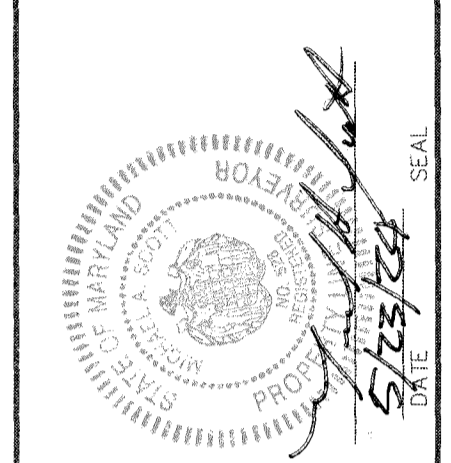
LEGEND

- DEED POINT (UNLESS OTHERWISE NOTED)
- EDGE OF EXISTING/PROPOSED WOODSLINE
- EDGE OF EXISTING WOODSLINE TO BE REMOVED
- - - FLOOD PLAIN LINE
- - - PERENNIAL STREAM
- - - NONTIDAL WETLAND MARGIN
- - - 25' BUFFER FROM NONTIDAL WETLANDS BUFFER
- - - EXISTING CONTOUR AND ELEVATION

GRAPHIC SCALE



DATE: AUGUST '22	SCALE: 1" = 100'	MINOR SUBDIVISION PLAT (LOT 1)
JOB No. 202165	DRAWN BY J. MOORE	ON THE LANDS OF MILLINGTON CROSSING ASSOCIATES 1, LLC
FOLDER Ref. 31-202165	DESIGNED BY	NEAR THE TOWN OF MILLINGTON
SHEET No. - 2 OF 5		TAX MAP - 31, GRID - 1E, PARCEL - 6-1
CADD FILE - 21165-2		FIRST ELECTION DISTRICT, KENT COUNTY, MARYLAND
		PREPARED FOR: EVERTON INDUSTRIAL
		REVISION
		DATE
		PER TAC COMMENTS
		PER TAC COMMENTS
		PER TAC COMMENTS
		PER TAC COMMENTS

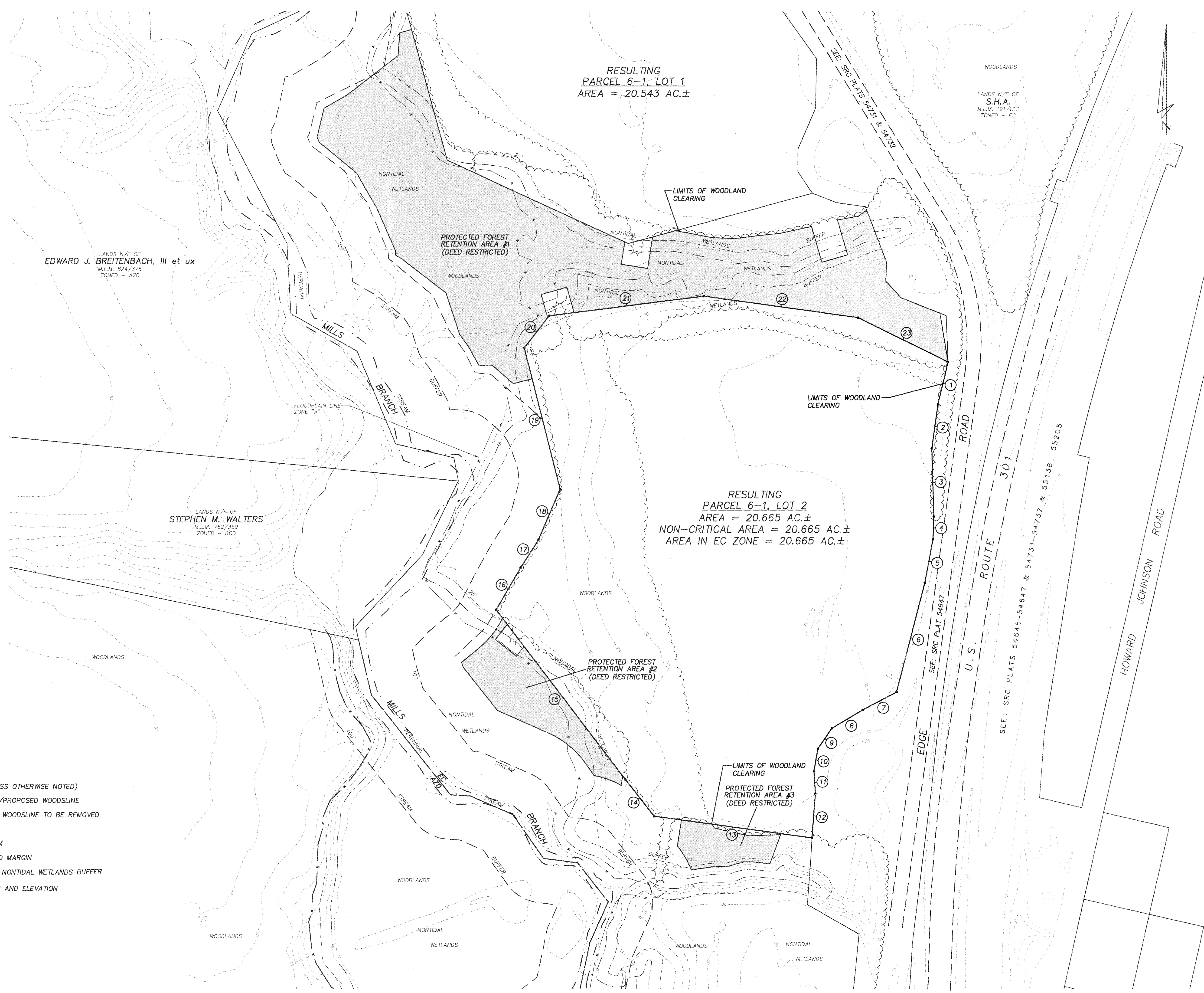


DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
 400 S. CROSS STREET, CHESTERTOWN, MD 21620 (410) 778-2310

MICHAEL A. SCOTT INC.
 400 S. CROSS STREET, CHESTERTOWN, MD 21620 (410) 778-2310

PERIMETER BOUNDARY COURSES AND DISTANCES

LINE	BEARING	DISTANCE
1	S 13°28'01" W	98.49'
2	S 07°48'59" W	100.00'
3	S 01°38'45" E	152.07'
4	S 02°06'21" W	50.25'
5	S 10°40'44" W	100.13'
6	S 14°39'33" W	251.79'
7	S 62°16'44" W	86.02'
8	S 59°22'45" W	80.43'
9	S 34°22'53" W	55.90'
10	S 10°06'25" W	50.04'
11	S 03°29'37" E	50.99'
12	S 04°22'58" W	100.18'
13	N 82°09'25" W	357.39'
14	N 37°59'44" W	105.56'
15	N 37°21'28" W	477.89'
16	N 30°27'05" E	109.13'
17	N 32°52'28" E	74.30'
18	N 23°16'25" E	122.21'
19	N 14°12'41" W	328.24'
20	N 37°50'35" E	91.41'
21	N 82°50'35" E	350.00'
22	S 82°09'25" E	350.00'
23	S 63°33'00" E	225.77'



LANDS N/F OF
EDWARD J. BREITENBACH, III et ux
M.L.M. 824/375
ZONED - AZD

LANDS N/F OF
STEPHEN M. WALTERS
M.L.M. 782/359
ZONED - RCD

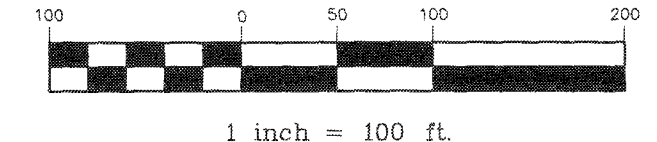
RESULTING
PARCEL 6-1, LOT 1
AREA = 20.543 AC.±

RESULTING
PARCEL 6-1, LOT 2
AREA = 20.665 AC.±
NON-CRITICAL AREA = 20.665 AC.±
AREA IN EC ZONE = 20.665 AC.±

LEGEND

- DEED POINT (UNLESS OTHERWISE NOTED)
- |— EDGE OF EXISTING/PROPOSED WOODSLINE
- |— EDGE OF EXISTING WOODSLINE TO BE REMOVED
- x— FLOOD PLAIN LINE
- |— PERENNIAL STREAM
- |— NONTIDAL WETLAND MARGIN
- |— 25' BUFFER FROM NONTIDAL WETLANDS BUFFER
- |— EXISTING CONTOUR AND ELEVATION

GRAPHIC SCALE



<p>DAVIS, MOORE, SHEARON & ASSOCIATES, LLC P.O. BOX 80 CENTREVILLE, MARYLAND 21517</p> <p>MICHAEL A. SCOTT INC. 400 S. CROSS STREET CHESTERTOWN, MD 21620 (410)778-2510</p>	
<p>DATE: MARCH '23</p>	<p>REVISION: 10-18-22 PER TAC COMMENTS</p>
<p>JOB NO.: 2021165</p>	<p>DATE: 10-9-22 PER TAC COMMENTS</p>
<p>FOLDER REF.: 31-2021165</p>	<p>DATE: 5-24-24 PER TAC COMMENTS</p>
<p>MINOR SUBDIVISION PLAT (LOT 2) ON THE LANDS OF MILLINGTON CROSSING ASSOCIATES 1, LLC NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1 FIRST ELECTION DISTRICT, KENT COUNTY, MARYLAND PREPARED FOR: EVERTON INDUSTRIAL</p>	
<p>SCALE: 1" = 100'</p>	<p>SHEET NO. - 3 OF 5</p>
<p>DRAWN BY: J. MOORE</p>	<p>CADD FILE - 21165-3</p>
<p>DESIGNED BY:</p>	

FOREST PROTECTION PLAN

ANY CLEARING, GRADING AND/OR CONSTRUCTION PROPOSED WITHIN 50 FEET OF PROTECTED FOREST AREAS MUST COMPLY WITH THE FOLLOWING FOREST PROTECTION PLAN:

- 1) FIELD LOCATION OF THE PROTECTED FOREST AREA BOUNDARIES, IN ACCORDANCE WITH SURVEY COURSES AND DISTANCES AND CRITICAL ROOT ZONE DETERMINATION GIVEN IN THIS APPROVED FOREST CONSERVATION PLAN, FCP #23-03-
- 2) INSTALLATION OF PROTECTIVE SIGNAGE ALONG THE PROTECTED FOREST AREA BOUNDARIES IN ACCORDANCE WITH DETAILS ENCLOSED IN THIS APPROVED FOREST CONSERVATION PLAN, FCP #23-03-
- 3) NOTIFY THE KENT COUNTY DEPARTMENT OF PLANNING AND ZONING, FOREST CONSERVATION COORDINATOR TO CONDUCT PRE-CLEARING/GRADING/CONSTRUCTION FIELD INSPECTION OF THE BOUNDARY LOCATION AND INSTALLED FOREST PROTECTION DEVICES.
- 4) AFTER INSPECTION APPROVAL IS GRANTED, CONDUCT THE CLEARING, GRADING AND/OR CONSTRUCTION.
- 5) AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND BEFORE REMOVAL OF THE FOREST PROTECTION DEVICES, NOTIFY THE KENT COUNTY DEPARTMENT OF PLANNING AND ZONING, FOREST CONSERVATION COORDINATOR TO CONDUCT A FIELD INSPECTION OF THE PROTECTED FOREST AREAS.

NOTES:

- 1) PROTECTED FOREST AREA SHOWN HEREON ARE PROHIBITED FROM CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT BY A RESTRICTIVE DEED OF FOREST CONSERVATION EASEMENT RECORDED IN THE LAND RECORDS OF KENT COUNTY.
- 2) PRIORITY AREA SELECTED FOR FOREST CONSERVATION CONTAIN HYDRIC SOIL, SOIL WITH A K-FACTOR ≥ 0.35 ON SLOPES $\geq 15\%$, NONTIDAL WETLANDS AND THEIR 25' BUFFER, A NATURAL FORESTED BUFFER TO ADJOINING PROPERTIES, AND ARE PART OF A FOREST > 100 ACRES.

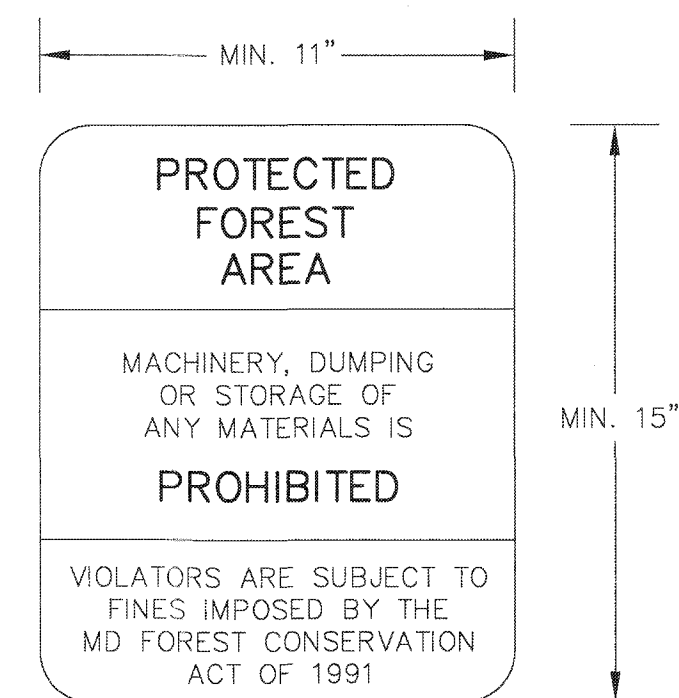
FOREST PROTECTION TIMETABLE DURING DEVELOPMENT ACTIVITIES

REQUIRED FOREST CONSERVATION INCLUDES THE RETENTION OF EXISTING FOREST ON THE WESTERN PORTION OF THE PROPERTY.

PROTECTIVE FENCING WILL BE PLACED AROUND A PORTION OF THE 8.35 ACRES PROTECTED FOREST AREA BOUNDARY UPON RECORDATION OF THE SUBDIVISION PLAT. PROTECTIVE SIGNS AND THEIR INSTALLATION SHALL MEET THE SPECIFICATIONS AND STANDARDS GIVEN IN THIS APPROVED FOREST CONSERVATION PLAN, FCP #23-03-. SIGNS MUST BE MAINTAINED INDEFINITELY.

PROTECTIVE SIGNAGE WILL BE PLACED AROUND THE 8.35 ACRES PROTECTED FOREST AREA BOUNDARY UPON RECORDATION OF THE SUBDIVISION PLAT. PROTECTIVE SIGNS AND THEIR INSTALLATION SHALL MEET THE SPECIFICATIONS AND STANDARDS GIVEN IN THIS APPROVED FOREST CONSERVATION PLAN, FCP #23-03-. SIGNS MUST BE MAINTAINED INDEFINITELY.

FOREST PROTECTION DEVICE PROTECTIVE SIGNAGE DETAIL

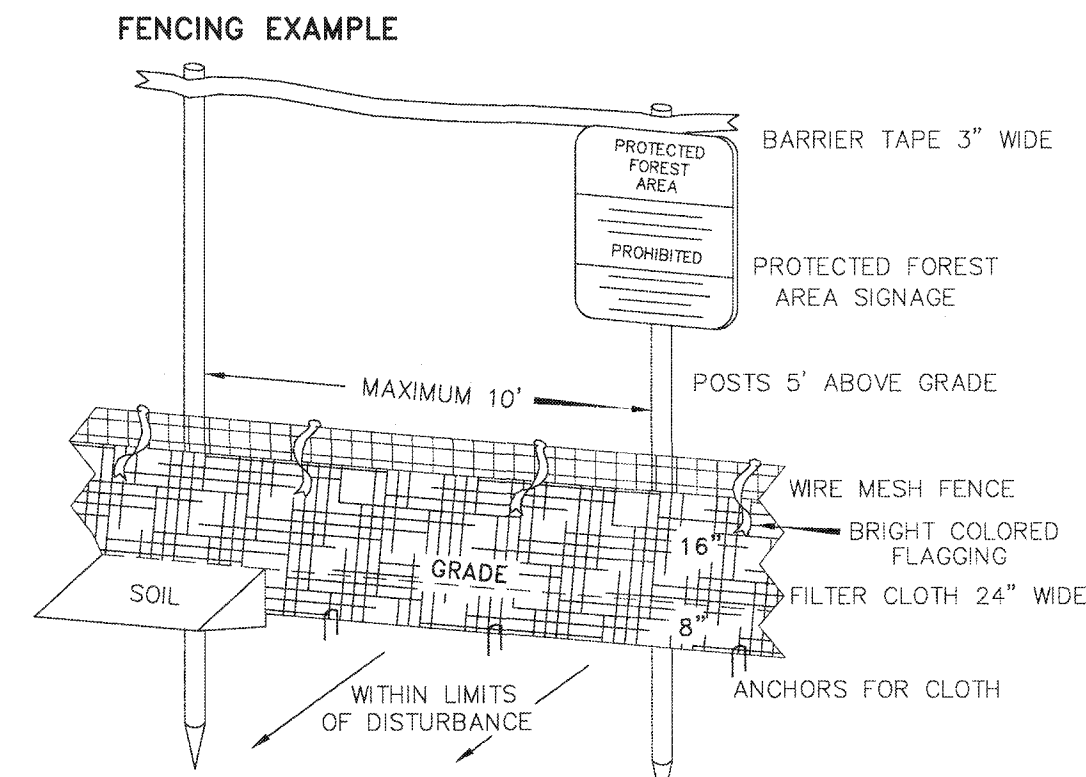


- A. SIGNS TO BE PLACED AT MAXIMUM OF 50 FEET INTERVALS ALONG PROTECTED FOREST BOUNDARY.
- B. SIGNS CANNOT BE NAILED, SCREWED OR STAPLED TO TREES.
- C. SIGNS WITH SIMILAR WORDING MAY BE OBTAINED FROM SURVEYOR/FORESTRY SUPPLY STORES.

FOREST PROTECTION DEVICE PROTECTIVE FENCING DETAIL

CONSTRUCTION FENCING SUCH AS FILTER CLOTH, CHAIN-LINK, PLASTIC OR WIRE MESH, STAKED STRAW BALES, BARBED WIRE, OR SNOW FENCING MAY BE USED TO MARK BOUNDARIES OF "PROTECTED FOREST AREAS" DURING CLEARING, GRADING, AND/OR CONSTRUCTION; HOWEVER THE FENCE MUST MEET THE FOLLOWING REQUIREMENTS:

- A) FENCE POSTS MUST BE A MINIMUM OF 5' ABOVE GRADE WITH CLOTH, MESH, WIRE OR SLATS SECURELY ATTACHED TO FORM A STRUCTURE CAPABLE OF RESISTING THE WEIGHT OF AN ADULT HUMAN. BRIGHTLY COLORED, 3" WIDE, PLASTIC, BARRIER TAPE MUST BE STRUNG BETWEEN THE TOPS OF EACH FENCE POST.
- B) BRIGHTLY COLORED FENCING SLATS, MESH, OR CLOTH, EXTENDING FROM GROUND TO AT LEAST 4' ABOVE GRADE ARE RECOMMENDED. DRAB FENCING MATERIALS (CLOTH, WIRE) MAY BE HIGH-LIGHTED WITH COLORED FLAGGING STREAMERS AT FREQUENT INTERVALS ALONG THE UPPER EDGE.
- C) PROTECTED FOREST AREA SIGNAGE (SEE ENCLOSED DETAIL) MUST BE ATTACHED TO FENCE POSTS A MINIMUM OF EVERY 50 FEET.
- D) SEE STATE, MUNICIPAL OR COUNTY FOREST CONSERVATION MANUAL FOR ILLUSTRATIONS OF VARIOUS TYPES OF PROTECTED FOREST AREA FENCING, AND THE ENCLOSED EXAMPLE OF A MODIFIED STANDARD FILTER CLOTH FENCE USED FOR SEDIMENT CONTROL AND FOREST PROTECTION:

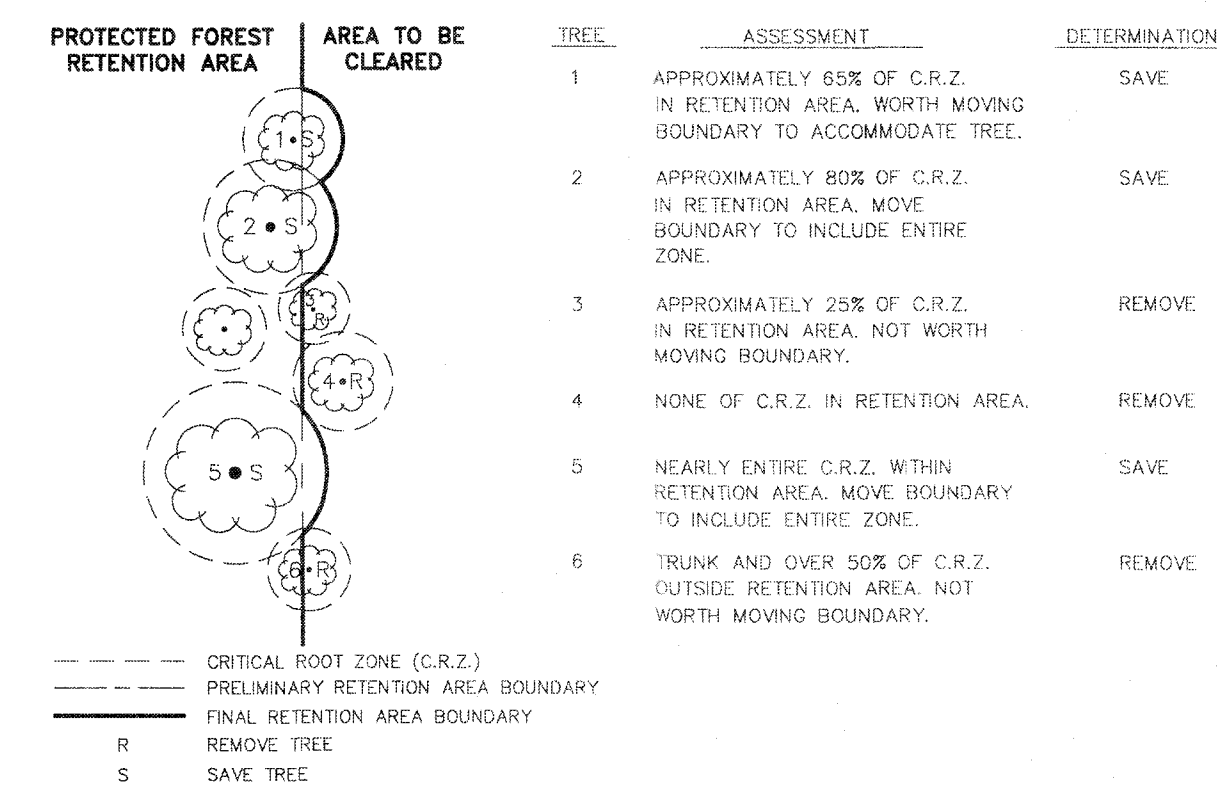


STANDARD FILTER CLOTH FENCING REQUIRED TO CONTROL EROSION SEDIMENT ON CONSTRUCTION SITES CAN ALSO BE USED AS THE PROTECTED FOREST AREA FENCING WITH SOME MODIFICATIONS (SEE ABOVE EXAMPLE) IF THE LIMITS OF CLEARING, GRADING AND/OR CONSTRUCTION ARE SYNONYMOUS WITH THE BOUNDARIES OF THE PROTECTED FOREST AREA OR IF LIMITS OF DEVELOPMENT DISTURBANCE ARE ANY DISTANCE OUTSIDE THE BOUNDARIES OF THE PROTECTED FOREST AREA.

CRITICAL ROOT ZONE

AREA OF ROOT PROTECTION NECESSARY FOR TREE SURVIVAL. DEFINED ZONE ENCIRCLES A TREE TRUNK ONE FOOT OUTWARD FOR EACH INCH OF TRUNK DIAMETER MEASURED AT 4.5 FEET ABOVE GROUND. MINIMUM RADIUS IS 8 FEET. THE ZONE IS 1.5 FEET OUTWARD FOR EACH TRUNK DIAMETER EQUALING OR EXCEEDING 30 INCHES, AND FOR ALL TREES WITHIN A RETENTION AREA LESS THAN 10,000 SQ. FT.

FIELD LOCATION AND MARKING OF THE PROTECTED FOREST BOUNDARY MAY REQUIRE A CRITICAL ROOT ZONE DETERMINATION FOR EACH INDIVIDUAL TREE IN CLOSE PROXIMITY TO THE BOUNDARY. THE DETERMINATION SAVES TREES WITH APPROXIMATELY 70 PERCENT OR MORE OF THE CRITICAL ROOT ZONE IN THE RETENTION AREA BY ADJUSTING THE RETENTION AREA BOUNDARY TO INCLUDE THE ENTIRE CRITICAL ROOT ZONE. THE FOLLOWING EXAMPLE SHOWS USE OF THE CRITICAL ROOT ZONE IN ESTABLISHING A FINAL RETENTION AREA BOUNDARY.



- NOTES:
- 1) TREE SPECIES AND HEALTH SHOULD BE CONSIDERED IN C.R.Z. ASSESSMENTS ALONG THE RETENTION AREA BOUNDARY.
 - 2) ANY DISTURBED CRITICAL ROOT ZONE IN THE RETENTION AREA MUST BE SHOWN ON THE FOREST CONSERVATION PLAN.
 - 3) PRUNING, AERATION, TUNNELING, STORMWATER MANAGEMENT AND OTHER PROCEDURES (SEE EXAMPLES IN APPENDIX C OF 1995 STATE FOREST CONSERVATION TECHNICAL MANUAL, 2ND EDITION) SHOULD BE CONSIDERED TO ENSURE LONG TERM SURVIVAL OF RETAINED TREES.

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
CENTREVILLE, MARYLAND 21617

DAVIS & ASSOCIATES ENVIRONMENTAL CONSULTING, LLC
P.O. BOX 733
Chester town, Maryland 21620
Phone No. 410-507-9793

DATE: MARCH 23, 2021

JOB No.: 2021165

FOLDER Ref: 2021165

DATE: 3/20/2025

REVISION: 10-18-22

DATE: 10-9-23

DATE: 10-18-22

DATE: 10-9-23

FOREST CONSERVATION PLAT (FCP #023-03-)
ON THE LANDS OF
MILLINGTON CROSSING ASSOCIATES 1, LLC
NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6-1
FIRST ELECTION DISTRICT, KENT COUNTY, MARYLAND
PREPARED FOR : EVERTON INDUSTRIAL

SCALE: 1" = 200'

DRAWN BY: J. MOORE

DESIGNED BY:

SHEET No. - 5 OF 5

CADD FILE - 21165-5

Forest Stand Delineation and Stand Condition Narrative
River Road
Millington, MD 21651
Kent County, Maryland
Tax Map 31 Parcel 6

Prepared for:

Everton Industrial Development LLC
266 Atsion Road
Medford, NJ 08055

Prepared By:

Davis & Associates
Environmental Consulting, LLC
P.O. Box 733
Chestertown, MD 21620

June 8, 2022

1. Introduction

On June 7, 2022, Davis & Associates completed a forest stand delineation (FSD) for the property located on the north side of River Road (MD 291) in Kent County. The purpose of the FSD is to describe forest stands on the parcel for woodland conservation purposes in compliance with the Maryland Forest Conservation Act of 1991.

2. Site Description

The site is located on the north side of River Road about 0.28 mile east of US Route 301 in Millington in Kent County in Maryland (see vicinity map). The property is zoned agricultural and is currently undeveloped.

3. Methodology

The forest stands were delineated based on topography, soil types, and aspect. Sample points were randomly located within the study area. The delineation was field verified. The sampling was accomplished using a wedge prism with a basal area of 10. The diameter of each sample tree was measured at breast height. The data sheets completed during the survey are included as Appendix A. The forest structure of each stand was assessed based on canopy coverage, herbaceous groundcover, downed woody debris, invasive plant cover, and the number of shrub species.

4. Stand Condition Narrative

Based on the methodology, one forest stand was identified. Sensitive species do occur on the southern portion of the site based on a review of Maryland's Environmental Resources & Land Information Network (MERLIN). Coordination with the Maryland Department of Natural Resources Wildlife and Heritage Service has been initiated and a response will be incorporated into the report when it is received.

No historic sites or cultural features were found on the site during the field investigation, and none were noted based on a review of information available from MERLIN. Adjacent land use is industrial, commercial, residential, agricultural, and forest.

Forest Stand A

Forest Stand A is an uneven-aged mixed bottomland hardwood forest. Dominant overstory species include beech and poplar. Other overstory species include red oak, white oak, hickory, red maple and sweetgum. Shrub layer and ground cover species are moderately dense and is mostly paw paw. Diameters of the dominant trees range from 5 to 25 inches. Canopy coverage averages 100 percent. The basal area averages 70 square feet per acre. The stand includes a perennial stream, Mill Branch, that drains to the Chester River. There are approximately 73 trees per acre. The forest is considered Priority Area 1.

The forest is in good health. Green ash is a small component of the stand and the green ash is dead or dying from the emerald ash borer. No other significant disease or insect infestation was observed on the site.

Soils in Forest Stands

Summary of Soil Map Unit Classifications for Stand A


Map Symbol	Soil Series
Bs	Bibb silt loam
CgC2	Colts Neck gravelly loam, 2 to 10 percent slopes, moderately eroded
MpB	Mattapex fine sandy loam, 2 to 5 percent slopes
MtcA	Mattapex silt loam, 0 to 2 percent slopes, Mid-Atlantic Coastal Plain
SacB	Sassafras sandy loam, 2 to 5 percent slopes, Mid-Atlantic Coastal Plain
SacC	Sassafras sandy loam, 5 to 10 percent slopes, Mid-Atlantic Coastal Plain
SaD2	Sassafras sandy loam, 10 to 15 percent slopes, moderately eroded
SfC2	Sassafras loam, 5 to 10 percent slopes, moderately eroded
WdcB	Woodstown sandy loam, 2 to 5 percent slopes, Mid-Atlantic Coastal Plain

Appendix

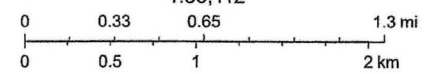
Richardson Fresh Ponds Forest Stand Delineation Location Map



6/8/2022, 1:09:21 PM

 State Boundary Mask

1:36,112

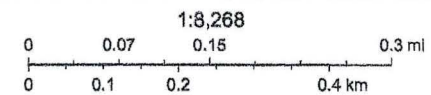


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, MD IMAP, ESRI

Richardson Fresh Ponds Areas W-1 and W-2 Forest Stand Delineation Map



6/17/2022, 11:43:11 AM

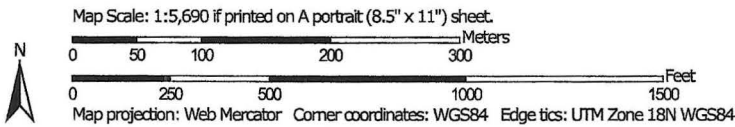


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, MD iMAP, DoIT

Soil Map—Kent County, Maryland
(Richardson Fresh Ponds Forest Stand Delineation Soil Map)




Soil Map may not be valid at this scale.



Soil Map—Kent County, Maryland
(Richardson Fresh Ponds Forest Stand Delineation Soil Map)

MAP LEGEND

Area of Interest (AOI)

-  Area of Interest (AOI)

Soils

-  Soil Map Unit Polygons
-  Soil Map Unit Lines
-  Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

-  Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

-  Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Kent County, Maryland
Survey Area Data: Version 20, Aug 27, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

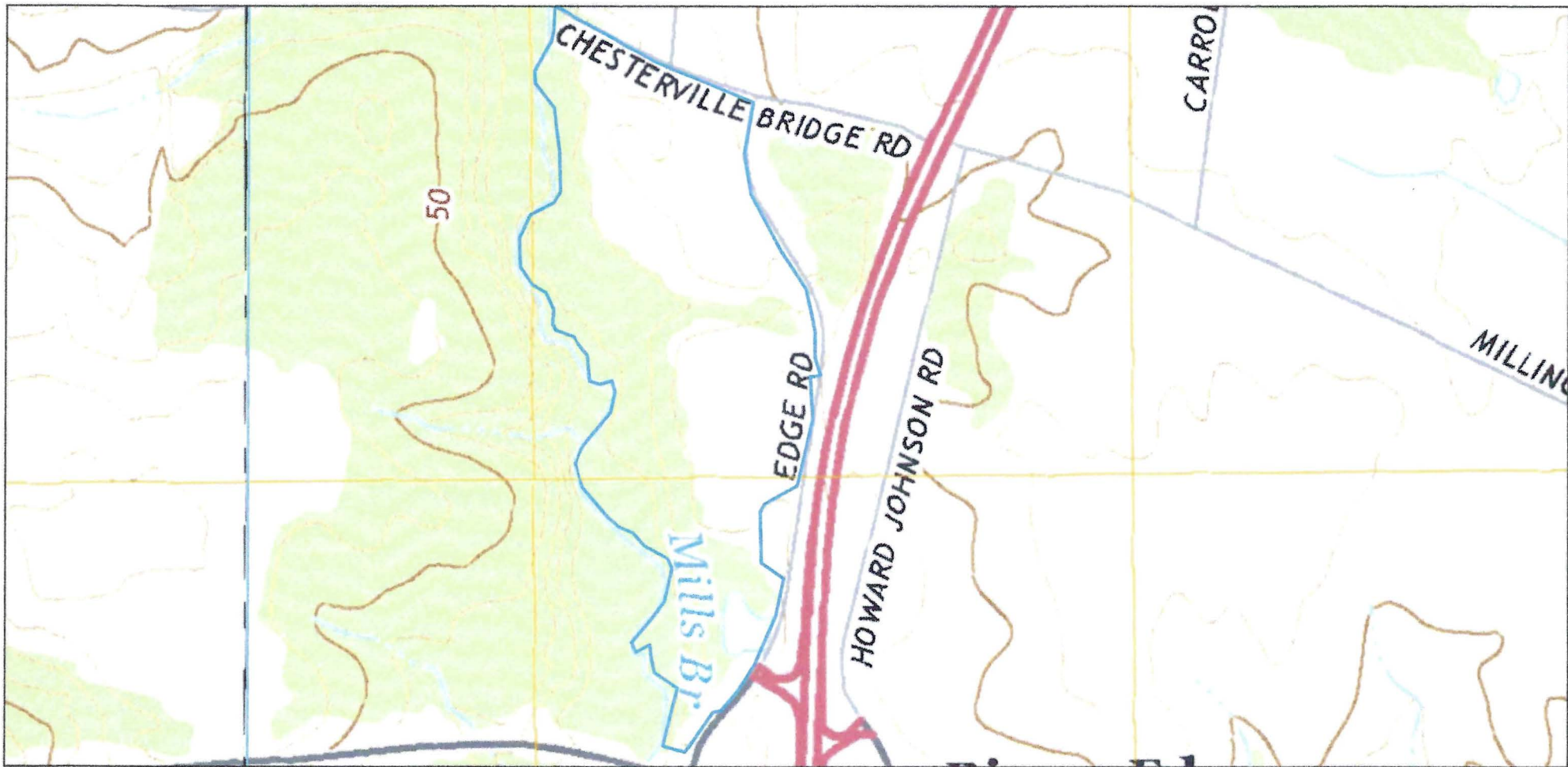
Date(s) aerial images were photographed: Jun 9, 2020—Jun 13, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

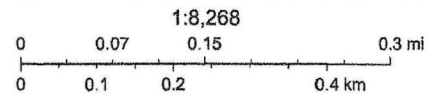
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Bs	Bibb silt loam	29.7	38.1%
CgC2	Colts Neck gravelly loam, 2 to 10 percent slopes, moderately eroded	0.0	0.0%
MpB	Mattapex fine sandy loam, 2 to 5 percent slopes	9.8	12.5%
MtcA	Mattapex silt loam, 0 to 2 percent slopes, Mid-Atlantic Coastal Plain	3.8	4.9%
SacB	Sassafras sandy loam, 2 to 5 percent slopes, Mid-Atlantic Coastal Plain	11.8	15.0%
SacC	Sassafras sandy loam, 5 to 10 percent slopes, Mid-Atlantic Coastal Plain	12.0	15.4%
SaD2	Sassafras sandy loam, 10 to 15 percent slopes, moderately eroded	0.5	0.6%
SfC2	Sassafras loam, 5 to 10 percent slopes, moderately eroded	0.4	0.6%
WdcB	Woodstown sandy loam, 2 to 5 percent slopes, Mid-Atlantic Coastal Plain	10.1	13.0%
Totals for Area of Interest		78.1	100.0%

Richardson Fresh Ponds Areas W-1 and W-2 Topographic Map



6/17/2022, 11:50:09 AM



MD IMAP, USGS, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Davis &
Associates
Environmental
Consulting, LLC

PO Box 733
Chestertown, MD 21620
410-507-9793

June 17, 2022

Ms. Lori Byrne
Environmental Review Specialist
MD DNR- Wildlife and Heritage Service
Tawes State Office Building, E-1
580 Taylor Avenue
Annapolis, MD 21401

RE: Environmental Review for Lands of Richardson Fresh Ponds LLC
River Rd
Millington, MD 21651
Tax Map 31 Parcel 6

Dear Ms. Byrne,

Davis & Associates is requesting an environmental review for the above referenced parcel. The site is located in Millington in Kent County. There are sensitive species mapped on the site.

A vicinity map of the site location is attached.

Please call me at 410-507-9793 if you have any questions regarding this site.

Sincerely,

Noreen Davis



Larry Hogan, Governor
 Boyd Rutherford, Lt. Governor
 Jeannie Haddaway-Riccio, Secretary
 Allan Fisher, Deputy Secretary

July 20, 2022

Ms. Noreen Davis
 Davis & Associates Environmental Consulting, LLC
 P.O. Box 733
 Chestertown, Maryland 21620

RE: Environmental Review for Lands of Richardson Fresh Ponds, LLC - River Road, Millington, Tax Map 31 Parcel 6, Kent County, Maryland.

Dear Ms. Davis:

The Wildlife and Heritage Service has determined that there are no official State or Federal records for listed plant or animal species within the delineated area shown on the map provided. We would like to point out, however, that our remote analysis suggests that the forested area on this property contains Forest Interior Dwelling Bird habitat. Populations of many bird species which depend on this type of forested habitat are declining in Maryland and throughout the eastern United States. The conservation of this habitat is mandated within the Chesapeake Bay Critical Area and must be addressed by the project plan. Specifically, if FIDS habitat is present, the following guidelines should be incorporated into the project plan (as applicable):

1. Restrict development to nonforested areas.
2. If forest loss or disturbance is unavoidable, concentrate or restrict development to the following areas:
 - a. the perimeter of the forest (i.e., within 300 feet of existing forest edge)
 - b. thin strips of upland forest less than 300 feet wide
 - c. small, isolated forests less than 50 acres in size
 - d. portions of the forest with low quality FIDS habitat, (i.e., areas that are already heavily fragmented, relatively young, exhibit low structural diversity, etc.)
3. Maximize the amount of forest "interior" (forest area >300 feet from the forest edge) within each forest tract (i.e., minimize the forest edge:area ratio). Circular forest tracts are ideal and square tracts are better than rectangular or long, linear forests.
4. Minimize forest isolation. Generally, forests that are adjacent, close to, or connected to other forests provide higher quality FIDS habitat than more isolated forests.
5. Limit forest removal to the "footprint" of houses and to that which is necessary for the placement of roads and driveways.
6. Minimize the number and length of driveways and roads.
7. Roads and driveways should be as narrow and as short as possible; preferably less than 25 and 15 feet, respectively
8. Maintain forest canopy closure over roads and driveways.
9. Maintain forest habitat up to the edges of roads and driveways; do not create or maintain mowed grassy berms.
10. Maintain or create wildlife corridors.

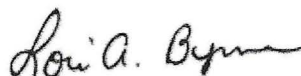
Page 2

11. Do not remove or disturb forest habitat during April-August, the breeding season for most FIDS. This seasonal restriction may be expanded to February-August if certain early nesting FIDS (e.g., Barred Owl) are present.
12. Landscape homes with native trees, shrubs and other plants and/or encourage homeowners to do so.
13. Encourage homeowners to keep pet cats indoors or, if taken outside, kept on a leash or inside a fenced area.
14. In forested areas reserved from development, promote the development of a diverse forest understory by removing livestock from forested areas and controlling white-tailed deer populations. Do not mow the forest understory or remove woody debris and snags.
15. Afforestation efforts should target a) riparian or streamside areas that lack woody vegetative buffers, b) forested riparian areas less than 300 feet wide, and c) gaps or peninsulas of nonforested habitat within or adjacent to existing FIDS habitat.

The Critical Area Commission's document "A Guide to the Conservation of Forest Interior Dwelling Birds in the Chesapeake Bay Critical Area" provides details on development standards and information about mitigation for projects where impacts to FIDS habitat cannot be totally avoided. Mitigation plantings for impacts to FIDS habitat may be required under the local government's Critical Area Program. The amount of mitigation required is generally based in whether the guidelines listed above are followed.

Please be sure to let us know if the limits of proposed disturbance or overall site boundaries change and we will provide you with an updated evaluation. Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at lori.byrne@maryland.gov or at (410) 260-8573.

Sincerely,



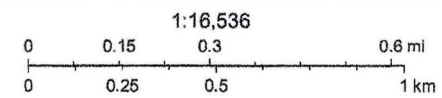
Lori A. Byrne,
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2022.0961.ke
Cc: C. Jones, CAC

Richardson Fresh Ponds Areas W-1 and W-2 Sensitive SpeciesMap



6/17/2022, 12:14:19 PM



MD iMAP, DNR, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, MD iMAP, DoIT

Table D-4 : Forest Stand Summary Sheet

Property Name: Richardson Freshlands

Prepared by: Nofern
Date: 6/17/22

Stand Variable	Stand #	Acreage	Stand #	Acreage
	A	49.7		
Forest Association (SAF cover type)	Mixed Oak, Poplar			
Size class of dominant trees	18-22"			
Number of Trees/acre	67			
Number of tree species/plot	5			
Basal area	83			
Number of dead trees/acre	2			
List of common understory species	Pawpaw, beech red maple			
Number of shrubs 1/100 acre plot	1			
% Canopy coverage	100			
% Herbaceous cover	10			
% Downed woody material	20			
% Exotic or invasive species	0			
Forest Structure Value				
Comments	Buffer for Mill Creek and 2 tributaries Priority Area 1			

Table D-3: Forest Structure Data Sheet

Property : Richardson Fresh Ponds Prepared by: Noreen Davis
 Stand #: A Plot #: 1 Date: 6/6/22

Forest Structure Variable	sample point 1	sample point 2	sample point 3	sample point 4	sample point 5	% yes
Canopy coverage	Y	Y	Y	Y	Y	100
herbaceous ground cover	N	N	N	N	N/Y	10
downed woody debris	N	N	Y	N	N	20
invasive plant cover	N	N	N	N	N	0
number of shrub species (1/100 acre)	1 - pawpaw					

Forest Structure Sampling Method:

1/10 acre plot,
5 sample points

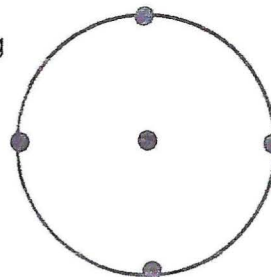


Table D-1: Field Sampling Data Sheet

Property Name: *Richardson Fresh Ponds*
 Stand # *A* Plot # *1*

Prepared by: *1*
 Date: *6/6/12*

Size Class of Trees Within the Sample Plot					
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>Poplar</i>				<i>24, 23</i>	
<i>Beech</i>					
<i>Sweetgum</i>		<i>6</i>		<i>21</i>	
<i>Hickory</i>					
<i>blackgum</i>		<i>8</i>		<i>13, 19</i>	
Number of Trees per size class					
List of understory species	<i>pawpaw sweetgum blackgum</i>				
Basal Area	<i>70</i>				
Number of Dead Trees per plot	<i>1</i>				
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: Richardson Fresh Parks
Stand # A Plot # 3

Prepared by: Nove
Date: 6/6/02

Size Class of Trees Within the Sample Plot					
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
Sweetgum				13	
Poplar					
Beech			11		
Hickory			11		
Blackgum		7			
Red Maple			19	20	
Green Ash			16		
White Oak			17		
Number of Trees per size class					
List of understory species	pawpaw skunk cabbage				
Basal Area					
Number of Dead Trees per plot	2				
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: Richardson Fresh Ponds
Stand # A Plot # 4

Prepared by: Naveen
Date: 6/6/22

Size Class of Trees Within the Sample Plot					
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
Poplar				19, 20	
Hickory			14		
Beech				20	
Sweetgum			15		
Red maple		101		22	
Number of Trees per size class					
List of understory species	Paw Paw				
Basal Area	70				
Number of Dead Trees per plot	2 - green ash				
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: *Richardson Fresh Ponds* Prepared by: *Norun*
 Stand # *A* Plot # *5* Date: *6/6/22*

Size Class of Trees Within the Sample Plot					
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>poplar</i>			<i>'17, '16'</i>	<i>18'</i>	
<i>hickory</i>		<i>15</i>			
<i>red oak</i>				<i>22'</i>	
<i>beech</i>		<i>10</i>	<i>16'</i>	<i>21'</i>	
Number of Trees per size class					
List of understory species	<i>beech</i>				
Basal Area	<i>80</i>				
Number of Dead Trees per plot					
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: *Richardson Fresh Parks*
 Stand # *A* Plot # *6*

Prepared by: *Noreen*
 Date: *6/6/72*

Size Class of Trees Within the Sample Plot					
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>Beech</i>			<i>17</i>		
<i>Hickory</i>			<i>15, 13</i>		
<i>red maple</i>		<i>10</i>	<i>16</i>	<i>20</i>	
<i>Sycamore</i>				<i>18</i>	
<i>red oak</i>				<i>21</i>	
Number of Trees per size class					
List of understory species	<i>beech, pawpaw, sweetgum</i>				
Basal Area	<i>80</i>				
Number of Dead Trees per plot	<i>1</i>				
Comments					

Table D-1: Field Sampling Data Sheet

 Property Name: *Richardson Fresh Ponds*

 Prepared by: *Noreen*

 Stand # *A*

 Plot # *7*

 Date: *6/6/22*

Size Class of Trees Within the Sample Plot					
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>Poplar</i>		<i>10</i>	<i>17</i>	<i>19</i>	
<i>red oak</i>				<i>23, 24</i>	
<i>hickory</i>			<i>15</i>		
<i>white oak</i>				<i>19</i>	
<i>sweetgum</i>			<i>16</i>	<i>18</i>	
Number of Trees per size class					
List of understory species	<i>beech, paw paw</i>				
Basal Area	<i>90</i>				
Number of Dead Trees per plot	<i>0</i>				
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: *Richardson*
 Stand # *A* Plot # *8*

Prepared by: *Norcon*
 Date: *6/6/13*

Tree Species (note dominant and co-dominant species)	Size Class of Trees Within the Sample Plot				
	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>Red maple</i>				<i>21</i>	
<i>Sweetgum</i>			<i>17, 15</i>		
<i>Beech</i>				<i>20</i>	
<i>Sycamore</i>				<i>19</i>	
<i>Poplar</i>		<i>10</i>	<i>16, 17</i>		
<i>red Oak</i>				<i>25</i>	
Number of Trees per size class					
List of understory species					
Basal Area	<i>90</i>				
Number of Dead Trees per plot					
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: *Richardson Fresh Ponds*
 Stand # *A* Plot # *9*

Prepared by: *Norcen*
 Date: *6/6/22*

Size Class of Trees Within the Sample Plot					
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>Poplar</i>			<i>16, 17</i>	<i>19</i>	
<i>red oak</i>				<i>25, 23</i>	
<i>white oak</i>				<i>18</i>	
<i>beech</i>				<i>21, 19</i>	
Number of Trees per size class					
List of understory species					
Basal Area	<i>80</i>				
Number of Dead Trees per plot					
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: *Richardson F.P*
 Stand # *A* Plot # *10*

Prepared by: *Noreen*
 Date: *6/6/13*

Size Class of Trees Within the Sample Plot					
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>Beech</i>		1		<i>19, 23</i>	
<i>Red Maple</i>		9, 10		<i>25, 19</i>	
<i>Sweetgum</i>			<i>16, 17</i>	<i>18</i>	
<i>Red Oak</i>				<i>22, 21</i>	
Number of Trees per size class					
List of understory species					
Basal Area	<i>110</i>				
Number of Dead Trees per plot					
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: *Richardson FP*
 Stand # *A* Plot # *11*

Prepared by: *Noreen*
 Date: *6/6/13*

Tree Species (note dominant and co-dominant species)	Size Class of Trees Within the Sample Plot				
	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>Poplar</i>		<i>17, 10</i>	<i>12</i>		
<i>White Oak</i>				<i>18</i>	
<i>Beech</i>				<i>27, 19</i>	
<i>Red Oak</i>				<i>24, 21</i>	
<i>Hickory</i>			<i>17</i>	<i>19</i>	
Number of Trees per size class					
List of understory species	<i>beech, paw paw</i>				
Basal Area	<i>100</i>				
Number of Dead Trees per plot					
Comments					

Table D-1: Field Sampling Data Sheet

Property Name: *Richardson FD*
 Stand # *A* Plot # *12*

Prepared by: *Noreen*
 Date: *6/6/22*

	Size Class of Trees Within the Sample Plot				
Tree Species (note dominant and co-dominant species)	Number of Trees 2-6" dbh	Number of Trees 6-10" dbh	Number of Trees 11-17" dbh	Number of Trees 18-29" dbh	Number of Trees >30" dbh
<i>Sycamore</i>				<i>18</i>	
<i>Sweet gum</i>			<i>15, 16</i>		
<i>red maple</i>			<i>14</i>	<i>21</i>	
<i>poplar</i>			<i>17</i>		
<i>beech</i>				<i>18</i>	
Number of Trees per size class					
List of understory species	<i>paup paup</i>				
Basal Area	<i>70</i>				
Number of Dead Trees per plot	<i>2</i>				
Comments					

CHECKLIST OF EXISTING PROPERTY FEATURES

TOPOGRAPHY LEVEL	YES
SLOPES ≥ 25%	YES
HIGHLY ERODIBLE SOIL ON SLOPES ≥ 15%	YES
HYDRIC SOIL	YES
100-YEAR FLOOD PLAIN	YES
INTERMITTENT STREAM	NO
PERENNIAL STREAM	YES
TIDAL WETLAND	NO
NONTIDAL WETLAND	YES
STAND PART OF FOREST ≥ 100 ACRES	YES
FORESTED ADJOINING PROPERTY	YES
TREES ≥ 30 INCHES DIAMETER	NO
CRITICAL HABITAT OF RARE OR ENDANGERED SPECIES	NO
HISTORICAL AND/OR ARCHAEOLOGICAL SITE	NO
CULTURAL FEATURE	NO
DISSECTING ROAD	NO

LEGEND

	BOUNDARY OF TOTAL TRACT
	ZONING LINE
	PERENNIAL STREAM
	SOIL TYPE AND CONFIGURATION
	EXISTING FOREST MARGIN
	FOREST STAND
	FLOODPLAIN LINE
	NONTIDAL WETLAND MARGIN
	PRIORITY RETENTION AREA

FOREST STAND DELINEATION NOTES

- SITE VICINITY MAP AND PROPERTY FOREST COVER ARE TAKEN FROM THE 2019 KENT COUNTY AERIAL PHOTOGRAPHY MAP AND THE LATTER VERIFIED BY THE SITE VISIT.
- SOIL TYPES AND CONFIGURATIONS ARE TAKEN FROM THE WEBSITE: <http://websoilsurvey.nrcs.usda.gov> FOR KENT COUNTY, MARYLAND.
- PERENNIAL STREAMS DOES OCCUR ON THE PROPERTY ACCORDING TO THE U.S. GEOLOGICAL SURVEY, 1986 (PHOTOREVISED) MILLINGTON, MARYLAND TOPOGRAPHIC QUADRANGLE MAP.
- NONTIDAL WETLANDS SHOWN HEREON ARE SCALED FROM A REPORT PREPARED BY DAVIS & ASSOCIATES ENVIRONMENTAL CONSULTING, LLC IN JUNE, 2022.
- 100-YEAR FLOOD PLAIN DOES OCCUR ON THE PROPERTY ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY, 2014 KENT COUNTY, MD UNINCORPORATED AREAS, FLOOD INSURANCE RATE MAP 24029 PANEL 0213 D.
- TOPOGRAPHIC CONTOURS AND ELEVATIONS ARE TAKEN FROM AERIAL TOPOGRAPHY FLOWN IN THE FALL OF 2013.
- CRITICAL HABITATS AND RARE OR ENDANGERED SPECIES WERE NOT FOUND DURING THE SITE VISIT AND THE PROPERTY IS NOT LISTED IN THE MARYLAND DEPARTMENT OF NATURAL RESOURCES COMAR 08.03.08.
- CULTURAL FEATURES DO NOT EXIST ON THE PROPERTY.
- HISTORICAL APPEARING STRUCTURES OR REMNANTS WERE NOT FOUND DURING THE SITE VISIT.
- THE PROPERTY IS, "RCD" (RESOURCE CONSERVATION DISTRICT), "AZD" (AGRICULTURAL ZONING DISTRICT) AND "EC" (EMPLOYMENT CENTER) BY THE KENT COUNTY DEPARTMENT OF PLANNING AND ZONING.
- PROPERTY BEARINGS AND DISTANCES ARE TAKEN FROM A BOUNDARY SURVEY PREPARED BY MICHAEL A. SCOTT, INC. IN JUNE, 2017. SEE DEED REFERENCE LIBER M.L.M. 892, FOLIO 458.

ACRES SUMMARY FOR FOREST STAND DELINEATION

TOTAL TRACT	114.50
CHESAPEAKE BAY CRITICAL AREA	7.41
LAND USE UNCHANGED	0.00
NET TRACT	107.09
EXISTING FOREST	72.03
PORTION PRIORITY FOR RETENTION (INCLUDES WETLANDS AND BUFFERS)	36.99

FOREST STAND SUMMARY

STAND	ACRES	SUCCESSIONAL STAGE	RETENTION PRIORITY	DOMINANT SPECIES	DIAMETER CLASS	CO-DOMINANT SPECIES
1	25.79	MATURE	11.20 ACRES	AMERICAN BEECH, HICKORY WHITE OAK, RED OAK	6 - 25 INCHES	AMERICAN BEECH FLOWERING DOGWOOD HICKORY, WHITE OAK RED OAK
2	46.24	MATURE	33.89 ACRES	YELLOW-POPLAR, AMERICAN BEECH	8 - 24 INCHES	PAW-PAW RED MAPLE SWEET GUM

PROPERTY SOILS

SYMBOL	SERIES	HYDRIC INDICATORS		K-FACTOR ≥ 0.35 ON LEVEL TO SLOPES ≥ 15%		LIMITATIONS FOR		
		?	No	?	No	EFFLUENT DISPOSAL	HOMESITES	VEHICLE ROADWAYS
Bs	BIBB SILT LOAM	?	No	?	No	?	?	?
MpB	MATTAPEX FINE SANDY LOAM	?	No	?	No	?	?	?
MtC A	MATTAPEX SILT LOAM	?	No	?	No	?	?	?
Oh	OTHELLO SILT LOAM	?	No	?	No	?	?	?
SacB	SASSAFRAS SANDY LOAM	?	No	?	No	?	?	?
SacC	SASSAFRAS SANDY LOAM	?	No	?	No	?	?	?
SacD2	SASSAFRAS SANDY LOAM	?	No	?	No	?	?	?
Sic2	SASSAFRAS LOAM	?	No	?	No	?	?	?
WdcB	WOODSTOWN SANDY LOAM	?	No	?	No	?	?	?

THIS FOREST CONSERVATION PLAN IS PREPARED BY DAVIS & ASSOCIATES ENVIRONMENTAL CONSULTING, LLC WHO MEETS THE FORESTRY REQUIREMENTS OF MARYLAND C.O.M.A.R. 08.19.01.06 AND ARE APPROVED BY THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, FOREST CONSERVATION PROGRAM AS PROFESSIONALS QUALIFIED TO CONDUCT FSD.

QUALIFIED PROFESSIONAL:
DAVIS & ASSOCIATES ENVIRONMENTAL CONSULTING, LLC
P.O. BOX 733
CHESTERTOWN, MARYLAND 21620

DATE

OWNER:

MILLINGTON CROSSING ASSOCIATES ONE, LLC
c/o RUSS RICHARDSON
P.O. BOX 546
CHESTER HEIGHTS, PA 19017
PHONE No. 1-410-275-2714

SURVEYOR:

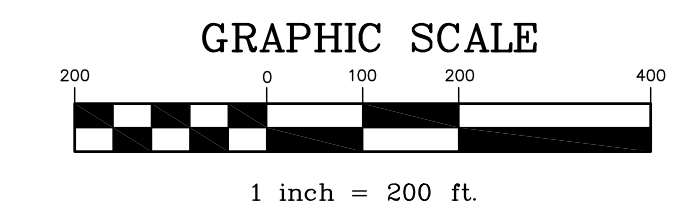
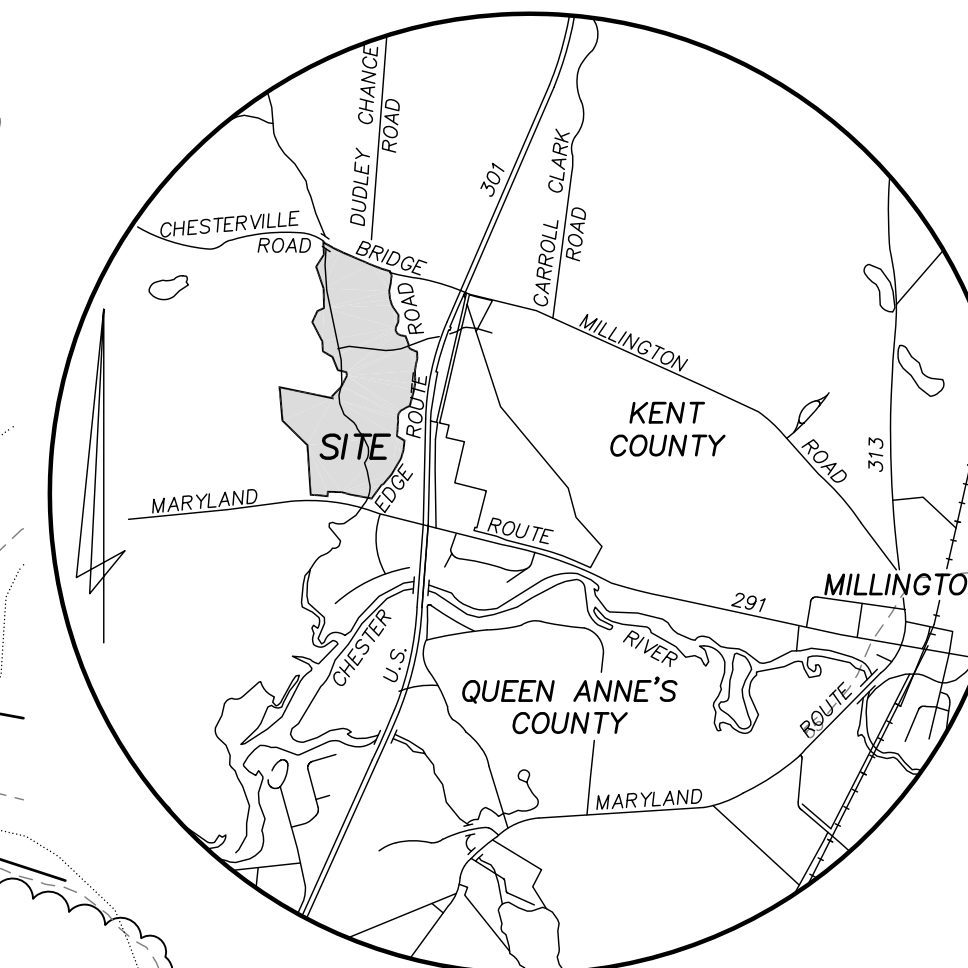
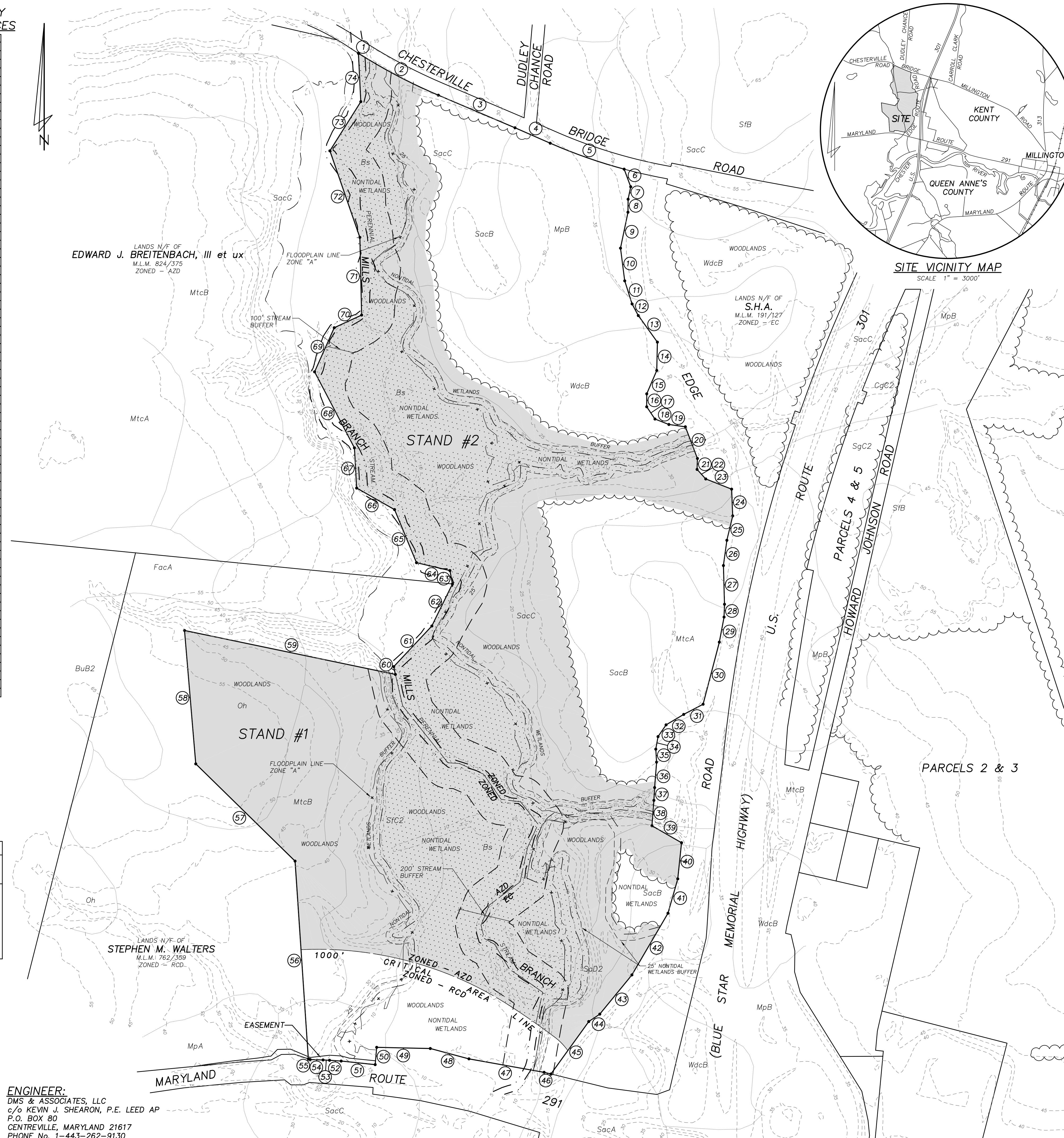
MICHAEL A. SCOTT, INC.
c/o MIKE SCOTT
400 SOUTH CROSS STREET
CHESTERTOWN, MARYLAND 21620
PHONE No. 1-410-778-2310

ENGINEER:

DMS & ASSOCIATES, LLC
c/o KEVIN J. SHEARON, P.E. LEED AP
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE No. 1-443-262-9130

PERIMETER BOUNDARY COURSES AND DISTANCES

LINE	BEARING	DISTANCE
1	S 57°41'34" E	1.51'
2	S 62°21'18" E	352.90'
	R = 2182.12'	353.28'
3	S 66°59'35" E	326.95'
4	S 66°21'21" E	150.72'
5	S 70°39'12" E	307.67'
	R = 2052.82'	307.96'
6	S 20°30'34" E	73.87'
7	S 11°54'11" W	50.00'
8	S 00°35'35" W	50.99'
9	S 11°42'18" W	144.01'
10	S 07°20'51" E	129.32'
11	S 17°37'45" E	94.97'
12	S 28°15'11" E	51.90'
13	S 35°41'34" E	128.29'
14	S 01°15'22" W	111.22'
15	S 23°11'27" W	98.87'
16	S 00°07'41" W	50.77'
17	S 33°58'49" E	58.03'
18	S 68°40'47" E	58.60'
19	S 81°58'30" E	65.30'
20	S 20°54'55" E	133.03'
21	S 01°54'51" W	43.01'
22	S 42°19'28" E	50.50'
23	S 68°28'35" E	109.20'
24	S 02°21'44" E	105.02'
25	S 13°28'01" W	98.49'
26	S 07°48'58" W	100.00'
27	S 01°38'45" E	152.07'
28	S 02°06'21" W	50.25'
29	S 10°40'44" W	100.13'
30	S 14°39'33" W	251.79'
31	S 62°16'44" W	86.02'
32	S 59°22'45" W	80.43'
33	S 34°22'53" W	55.90'
34	S 10°06'25" W	50.04'
35	S 03°29'37" E	50.99'
36	S 04°22'58" W	100.18'
37	S 03°14'33" W	50.16'
38	S 04°22'58" W	100.18'
39	S 60°13'23" E	133.70'
40	S 05°56'11" W	142.56'
41	S 15°54'12" W	140.25'
42	S 30°18'58" W	280.31'
43	S 39°20'21" W	199.09'
44	S 56°03'57" W	52.20'
45	S 35°48'22" W	253.75'
46	N 76°14'08" W	27.73'
47	N 79°51'28" W	289.63'
48	N 75°01'11" W	157.13'
49	N 88°44'55" W	210.47'
50	S 04°59'46" W	68.07'
51	N 84°00'32" W	134.29'
52	N 86°13'17" W	45.78'
53	N 87°05'47" W	25.44'
54	N 88°02'02" W	50.87'
55	N 71°20'33" W	7.19'
56	N 03°51'09" W	738.07'
57	N 43°37'09" W	548.42'
58	N 04°49'35" W	525.33'
59	S 78°14'39" E	845.55'
60	N 11°59'39" W	30.93'
61	N 43°08'31" E	218.92'
62	N 26°05'41" E	183.60'
63	N 10°37'15" W	53.45'
64	N 76°44'35" W	134.76'
65	N 22°27'55" W	225.56'
66	N 60°17'05" W	171.11'
67	N 03°08'55" W	158.05'
68	N 27°39'55" W	336.87'
69	N 24°01'05" E	189.38'
70	N 65°08'05" E	118.58'
71	N 01°18'25" W	305.01'
72	N 19°07'05" W	359.26'
73	N 32°10'35" E	228.01'
74	N 02°50'27" W	190.14'



DATE: _____ SEAL: _____

REVISION: _____

DATE: _____

FOREST STAND DELINEATION
ON THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6
FIRST ELECTION DISTRICT, KENT COUNTY, MARYLAND
PREPARED FOR : EVERTON INDUSTRIAL

SCALE: 1" = 200'
DRAWN BY: J. MOORE
DESIGNED BY: J. MOORE
SHEET No. -
CADD FILE - 2116FSFD

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN,
ENVIRONMENTAL SERVICES & SURVEYING
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 1-443-262-9130
FAX: 1-443-262-9148

Lands of Richardson Fresh Ponds LLC
River Road
Millington, MD 21651
Kent County, Maryland
Tax Map 31 Parcel 6 Areas W-1 and W-2
Wetland Delineation Report

Prepared for:

Everton Industrial Development LLC
266 Atsion Road
Medford, NJ 08055

Prepared by:

Davis & Associates
Environmental Consulting, LLC
410-507-9793
PO Box 733
Chestertown, MD 21620

June 17, 2022

Introduction

Davis & Associates completed a wetland delineation investigation for the property located in Kent County, Maryland on June 7, 2022. The purpose of the investigation was to determine the extent, location, and classification of any wetlands or waters of the U.S. on Areas W-1 and W-2. This report summarizes our investigation and results. The following attachments are included:

- Attachment 1. Vicinity Map
- Attachment 2. Aerial Photograph with Preliminary Wetland Delineation
- Attachment 3. Kent County Soil Survey Map
- Attachment 4: Routine Wetland Determination Data Forms

Description of the Property

The site is located on the north side of River Road about 0.19 mile east of its intersection with US Route 301 in Millington in Kent County in Maryland (see Attachment 1). The site is undeveloped. The site is owned by Richardson Fresh Ponds LLC, PO Box 546, Chester Heights, PA 19017. The latitude is 39.275981 and the longitude is -75.869152. The property is not located within the Chesapeake Bay Critical Area.

Methodology

The wetland delineation was conducted in accordance with the U.S. Army Corps of Engineers' Wetland Delineation Manual (USACE, 1987) and the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Plain Region (USACE 2012). These manuals utilize a three-parameter approach to identifying wetlands, which includes the presence of dominant hydrophytic vegetation, hydric soils, and wetland hydrology. All three parameters normally must be present for an area to be considered a wetland under the USACE jurisdiction in accordance with Section 404 of the Clean Water Act.

The wetland investigation included an evaluation of the Kent County Soil Survey and available topographic maps of the property.

Soils

A hydric soil is defined as a soil “that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part” (Federal Register, July 13, 1994). According to the USACE’s Wetland Delineation Manual (USACE, 1987), common hydric soil indicators include a low chroma matrix (chroma less than 2, value greater than 4), concretions, and listing on local or national hydric soils lists.

The following soils were mapped on the property in the Kent County Soil Survey (USDA, NRCS):

Table 1. Summary of Soil Map Unit Classifications

Map Symbol	Soil Series
Bs	Bibb silt loam
CgC2	Colts Neck gravelly loam, 2 to 10 percent slopes, moderately eroded
MpB	Mattapex fine sandy loam, 2 to 5 percent slopes
MtcA	Mattapex silt loam, 0 to 2 percent slopes, Mid-Atlantic Coastal Plain
SacB	Sassafras sandy loam, 2 to 5 percent slopes, Mid-Atlantic Coastal Plain
SacC	Sassafras sandy loam, 5 to 10 percent slopes, Mid-Atlantic Coastal Plain
SaD2	Sassafras sandy loam, 10 to 15 percent slopes, moderately eroded
SfC2	Sassafras loam, 5 to 10 percent slopes, moderately eroded
SgC2	Sassafras gravelly loam, 5 to 10 percent slopes, moderately eroded
WdcB	Woodstown sandy loam, 2 to 5 percent slopes, Mid-Atlantic Coastal Plain

A copy of the soil map is included as Attachment 3.

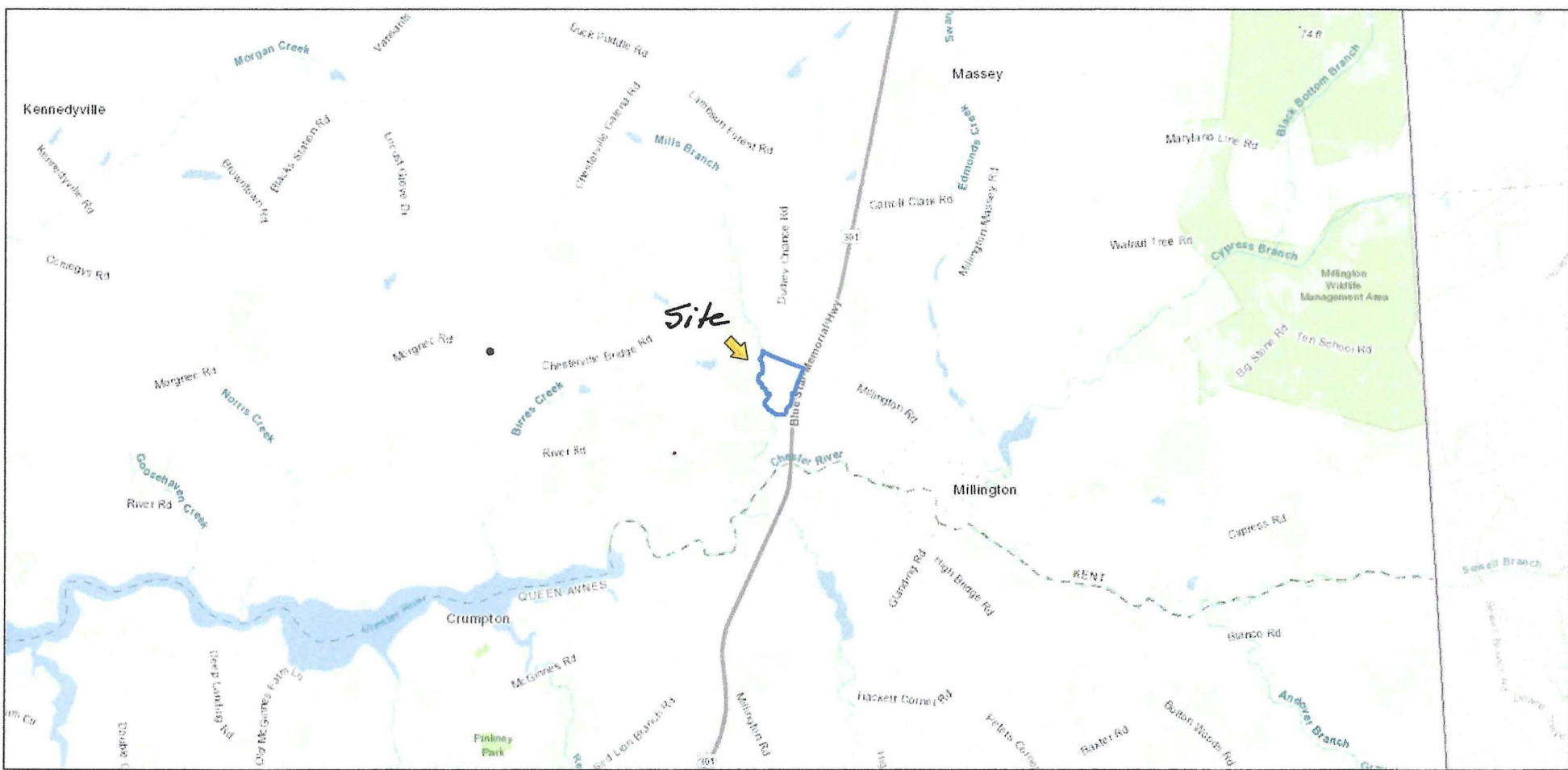
Vegetation

Plant species observed on the property were identified and the wetland indicator status for each species was determined from the *US Army Corps of Engineers, North American Digital Flora: National Wetland Plant List, Atlantic and Coastal Plain 2016*. The indicator status of a certain species indicates the probability that it will occur in a wetland of the northeast region of the United States. The indicator status designations are presented for each species identified at the property in Attachment 4. The following is an explanation of the indicator status designations:

- OBL = Obligate Wetland
(greater than 99 % probability of occurrence in wetland)
- FACW= Facultative Wetland
(greater than 66 % to less than 99 % probability of occurrence in wetland)
- FAC = Facultative
(33 % to 66 % probability of occurrence in wetland)
- FACU = Facultative Upland
(1 % to less than 33 % probability of occurrence in wetland)
- UPL = Obligate Upland
(less than 1% probability of occurrence in wetland)

Attachment 1

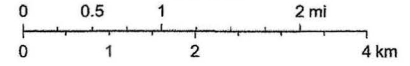
Richardson Fresh Ponds Wetland Delineation Location Map



6/6/2022, 1:29:12 PM

State Boundary Mask

1:72,224



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, MD iMAP, ESRI

Attachment 2

Richardson Fresh Ponds Wetland Delineation Map



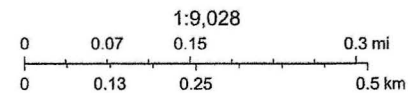
6/6/2022, 1:31:31 PM

Six Inch Imagery 2014-2016

State Boundary Mask

 Property Boundary

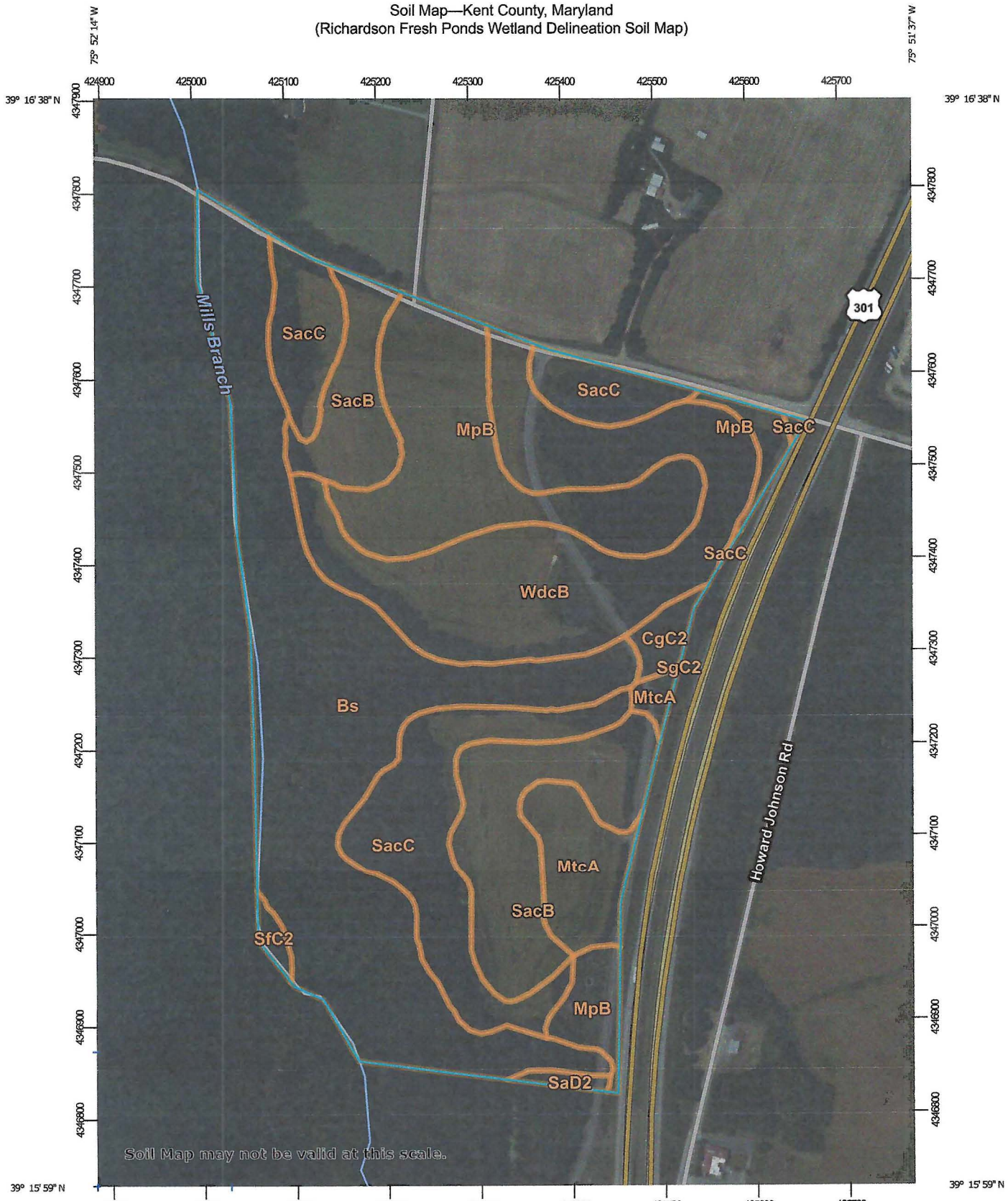
 Wetland



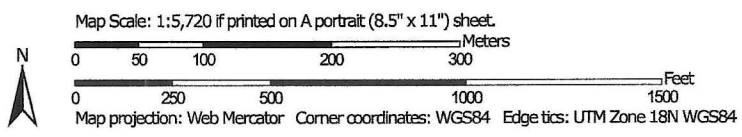
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, MD iMAP, DoIT, MD iMAP, ESRI

Attachment 3

Soil Map—Kent County, Maryland
(Richardson Fresh Ponds Wetland Delineation Soil Map)







































Soil Map may not be valid at this scale.



Soil Map—Kent County, Maryland
(Richardson Fresh Ponds Wetland Delineation Soil Map)

MAP LEGEND

Area of Interest (AOI)		 Spoil Area	
 Area of Interest (AOI)		 Stony Spot	
Soils		 Very Stony Spot	
 Soil Map Unit Polygons		 Wet Spot	
 Soil Map Unit Lines		 Other	
 Soil Map Unit Points		 Special Line Features	
Special Point Features		Water Features	
 Blowout		 Streams and Canals	
 Borrow Pit		Transportation	
 Clay Spot		 Rails	
 Closed Depression		 Interstate Highways	
 Gravel Pit		 US Routes	
 Gravelly Spot		 Major Roads	
 Landfill		 Local Roads	
 Lava Flow		Background	
 Marsh or swamp		 Aerial Photography	
 Mine or Quarry			
 Miscellaneous Water			
 Perennial Water			
 Rock Outcrop			
 Saline Spot			
 Sandy Spot			
 Severely Eroded Spot			
 Sinkhole			
 Slide or Slip			
 Sodic Spot			

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Kent County, Maryland

Survey Area Data: Version 20, Aug 27, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 9, 2020—Jun 13, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Bs	Bibb silt loam	29.9	31.4%
CgC2	Colts Neck gravelly loam, 2 to 10 percent slopes, moderately eroded	1.0	1.1%
MpB	Mattapex fine sandy loam, 2 to 5 percent slopes	14.4	15.2%
MtcA	Mattapex silt loam, 0 to 2 percent slopes, Mid-Atlantic Coastal Plain	4.3	4.5%
SacB	Sassafras sandy loam, 2 to 5 percent slopes, Mid-Atlantic Coastal Plain	12.2	12.8%
SacC	Sassafras sandy loam, 5 to 10 percent slopes, Mid-Atlantic Coastal Plain	14.4	15.1%
SaD2	Sassafras sandy loam, 10 to 15 percent slopes, moderately eroded	0.4	0.4%
SfC2	Sassafras loam, 5 to 10 percent slopes, moderately eroded	0.4	0.5%
SgC2	Sassafras gravelly loam, 5 to 10 percent slopes, moderately eroded	0.0	0.0%
WdcB	Woodstown sandy loam, 2 to 5 percent slopes, Mid-Atlantic Coastal Plain	18.1	19.1%
Totals for Area of Interest		95.1	100.0%

Attachment 4

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Richardson Fresh Ponds W-1 + W-2 City/County: Millington / Kent Sampling Date: 6/9/22
 Applicant/Owner: Everton Industrial State: _____ Sampling Point: SPI
 Investigator(s): N. Davis Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): _____ Slope (%): 0-10%
 Subregion (LRR or MLRA): LRRT Lat: 39.27598 Long: -75.869152 Datum: _____
 Soil Map Unit Name: B5 - Bibb silt loam NWI classification: PFO1A/C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? no Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? no (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) ___ Marl Deposits (B15) (LRR U) ___ Water Marks (B1) <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Sparsely Vegetated Concave Surface (B8) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

Sampling Point: SP1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Fraxinus pennsylvanica</i>	2	Y	FACW
2. <i>Liquidambar styraciflua</i>	2	Y	FAC
3. <i>Acer rubrum</i>	5	Y	FAC
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Sapling Stratum (Plot size: _____)

1.	2.	3.	4.	5.	6.	7.
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

_____ = Total Cover

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Shrub Stratum (Plot size: _____)

1.	2.	3.	4.	5.	6.	7.
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

_____ = Total Cover

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0¹

___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Herb Stratum (Plot size: _____)

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
<i>Symplocarpus foetidus</i>											
40	Y	OBL									
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

_____ = Total Cover

Definitions of Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).

Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.

Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.

Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, except woody vines, less than approximately 3 ft (1 m) in height.

Woody vine – All woody vines, regardless of height.

Woody Vine Stratum (Plot size: _____)

1.	2.	3.	4.	5.
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

_____ = Total Cover

Hydrophytic Vegetation Present? Yes No

Remarks: (If observed, list morphological adaptations below).

SOIL

Sampling Point: SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10YR 6/3		10YR 7/8	5				
5-12	10YR 6/1							

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (A9) (LRR P, T)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Coast Prairie Redox (A16) (MLRA 150A)
- Sandy Mucky Mineral (S1) (LRR O, S)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Indicators for Problematic Hydric Soils³:

- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12) (LRR T, U)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:



Wes Moore
Governor
Aruna Miller
Lieutenant Governor
Paul J. Wiedefeld
Secretary
William Pines, P.E.
Administrator

May 17, 2024

Kevin Shearon, P.E., LEED AP
Davis, Moore, Shearon and Associates, LLC
P.O. Box 80
Centreville, MD 21617

RE: Kent County
Everton
Millington Crossing
23apke003xx

Dear Mr. Shearon:

The Maryland Department of Transportation State Highway Administration (SHA) has reviewed the entrance plans, and we are pleased to respond. SHA has determined that distances between entrances are acceptable as proposed, provided the sight distance clearing is approved and performed. This determination has been formulated through collective review of the SHA Access Manual, proposed plan set, and site visit.

If you have any questions, please contact Henry R. Dierker via email at hdierker@mdot.maryland.gov or via phone at 410-810-3244.

Sincerely,

A handwritten signature in blue ink, appearing to read 'H. Dierker III'.

Henry R. Dierker III
Access Permits Regional Engineer

(STM/HD)



Wes Moore
Governor
Aruna Miller
Lieutenant Governor
Paul J. Wiedefeld
Secretary
William Pines, P.E.
Administrator

April 25, 2024

Mr. Brad Schmid
Traffic Concepts, Inc.
7525 Connelley Drive, Suite B
Hanover, MD 21076

RE: Kent County
US 301
Millington Crossing Warehouses
SHA Tracking No. 23apke003xx
Mile Point: 0.89

Dear Mr. Schmid:

Thank you for the opportunity to review the Point-by-Point Response and revised Traffic Impact Study (TIS) for the proposed Millington Crossing Warehouses in Kent County. The Maryland Department of Transportation State Highway Administration (SHA) has reviewed the TIS, and we are pleased to advise the TIS is **Approved with Comments**.

If you have any questions regarding the comments, please contact the Reviewer directly using the contact information that has been provided.

Travel Forecasting and Analysis Division (TFAD): (Elham Shayanfar, 410-545-5642, eshayanfar@mdot.maryland.gov)

- The 445 ft intersection sight distance satisfies the AASHTO guidelines for passenger cars.
- However, under the same conditions, a combination truck requires 675 ft intersection sight distance.
 - Ideally, we want to meet the 675 ft sight distance due to the truck traffic for this development.
- As stated in our previous comments, the limited sight distance for the south building truck access raises safety concerns and needs to be addressed.
 - We recommend restricting the access to right-in only and directing trucks to exit via the southern access point.

Access Management:

Plan submittal should reflect the above comments. Any submissions should be made to Mr. Ken Fender at 615 Morgnec Road, Chestertown, MD 21620, attention of Mr. Henry Dierker, III. Please reference the SHA tracking number on future submissions.

Please keep in mind that you can view the reviewer and project status via the SHA Access Management web page at <https://roads.maryland.gov/mdotsha/pages/amd.aspx>. If you have any questions or require additional information, please contact Mr. Henry Dierker, III at 410-778-3061, by using our toll-free number (in Maryland only) at 1-800-637-9740 (x3244), or via email at hdierker@mdot.maryland.gov.

Sincerely,

Richard Baker

Richard Baker
Assistant District Two Engineer--Traffic

STM/(HD)



TRAFFIC IMPACT STUDY

MILLINGTON CROSSING - WAREHOUSE

PROJECT #3906

KENT COUNTY, MD

DECEMBER 2023

**PREPARED FOR:
EVERTON INDUSTRIAL**

**PREPARED BY:
TRAFFIC CONCEPTS, INC.**

**7525 CONNELLEY DRIVE
SUITE B
HANOVER, MARYLAND 21076
(410)760-2911
www.traffic-concepts.com**

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EXECUTIVE SUMMARY

Millington Crossing Associates One, LLC warehouse project that is planned with two lots along the west side of MD 701A (Edge Road).

Proposed Project: The project consists of two 256,924 sqf warehouse buildings.

Scope of Services & Methodology: The key intersections listed below define the study area. **The intersection counts were conducted on October 25, 2022, when schools were in session.**

US Route 301 (Blue Star Memorial Highway) @ MD 313 (Galena Road) (Unsignalized)	SB US Route 301 (Blue Star Memorial Highway) @ Chesterville Bridge Road (Unsignalized)
SB US Route 301 (Blue Star Memorial Highway) @ MD 701A (Edge Road) Ramps (Unsignalized)	NB US Route 301 (Blue Star Memorial Highway) @ MD 701 (Howard Johnson Road) Ramps (Unsignalized)
Chesterville Bridge Road @ MD 701A (Edge Road) (Unsignalized)	MD 291 (Cypress Street) @ MD 701A (Edge Road) (Roundabout)
MD 291 (Cypress Street) @ MD 701 (Howard Johnson Road) (Roundabout)	Chesterville Bridge Road @ North Building Truck Access (Unsignalized)
MD 701A (Edge Road) @ North Building Car Access (Unsignalized)	MD 701A (Edge Road) @ South Building Truck Access (Unsignalized)
MD 701A (Edge Road) @ South Building Car Access (Unsignalized)	

Analysis Methodology: The traffic study is comprised of an Existing, Background, and Future traffic condition. The key intersections were analyzed under each traffic condition, which is explained with the following formula:

Total Future Traffic = (Existing Condition – current intersection turning movement volumes + Background Condition – 2 % Growth Rate compounder over 2 years + Future Condition - site generated traffic and passby)

All key intersections were analyzed with the Critical Lane Volume (CLV) methodology and the MD 301 and MD 313 unsignalized intersection was analyzed with the Highway Capacity Manual (HCM) software.

New Site Generated (Peak Hour) Trips: The new site generated peak hour trips listed below were generated with land use data contained in the *Institute of Transportation Engineers, Trip Generation Manual 11th Edition*.

SITE TRIPS:

	AM		PM	
	<u>IN</u>	<u>OUT</u>	<u>IN</u>	<u>OUT</u>
Warehousing				
ITE Land Use Code 150				
513.85k gsf				
New Truck Trips	8	2	4	11
New Car Trips	58	17	20	53
Total New Trips	66	19	24	64

CONCLUSION:

At the total future build-out condition (2025), the CLV analyses determined that all key intersections would continue to operate at adequate overall level of service "A" condition.

Based on the traffic study results, we recommend that this development be approved from a traffic level of service standpoint.

INTRODUCTION

Millington Crossing Associates One, LLC proposed to construct two warehousing buildings in Kent County. The site is located along the west side of MD 701A (Edge Road) just south of Chesterville Bridge Road, as shown on Exhibit 1.

Project Development

The developer plans to construct 513,848 gsf of warehousing. The site plan is included in the appendix.

Site Access

The developer plans to create three new full movement access for the south proposed lots along the west side of MD 701A. The north lot will have one new full movement access along the west side of MD 701A and one left-in, right-out, left-out access along the south side of Chesterville Bridge Road.

Key Intersections

The key intersections listed below were analyzed during the weekday morning and evening peak time periods.

- US Route 301 (Blue Star Memorial Highway) @ MD 313 (Galena Road) (Unsignalized)
- SB US Route 301 (Blue Star Memorial Highway) @ Chesterville Bridge Road (Unsignalized)
- SB US Route 301 (Blue Star Memorial Highway) @ MD 701A (Edge Road) Ramps (Unsignalized)
- NB US Route 301 (Blue Star Memorial Highway) @ MD 701 (Howard Johnson Road) Ramps (Unsignalized)
- Chesterville Bridge Road @ MD 701A (Edge Road) (Unsignalized)
- MD 291 (Cypress Street) @ MD 701A (Edge Road) (Roundabout)
- MD 291 (Cypress Street) @ MD 701 (Howard Johnson Road) (Roundabout)
- Chesterville Bridge Road @ North Building Truck Access (Unsignalized) (Future Only)
- MD 701A (Edge Road) @ North Building Car Access (Unsignalized) (Future Only)
- MD 701A (Edge Road) @ South Building Truck Access (Unsignalized) (Future Only)
- MD 701A (Edge Road) @ South Building Car Access (Unsignalized) (Future Only)

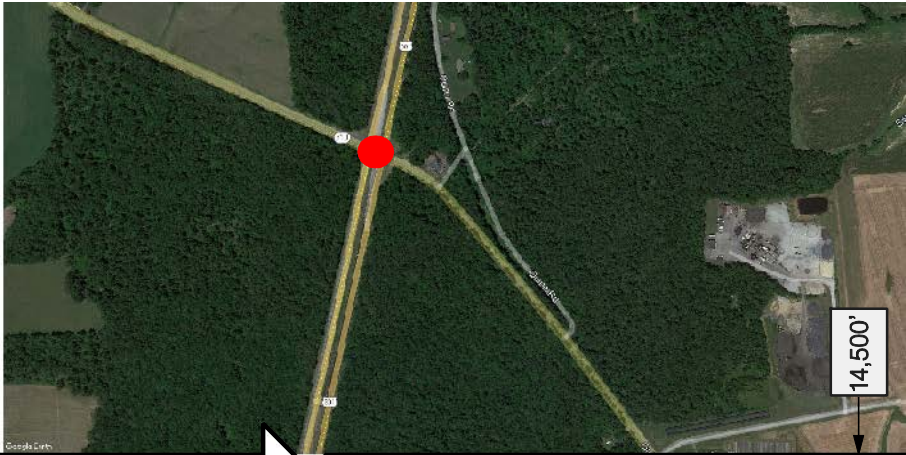
Study Methodology

The key intersections were analyzed during the existing, background, and future traffic condition. The existing condition determines the baseline intersection levels of service with recent intersection turning movement counts. The background condition includes both regional traffic traveling through the study area along arterial and collector roadways, which is represented with a growth rate, and local traffic generated by nearby approved background developments that are not constructed. The background trips are added to the existing traffic volumes to create the total background traffic volumes.

The future traffic condition determines the site generated peak hour trips. The total background traffic volumes are then added to the future peak hour trips to create the total future traffic volumes.

Analysis Methods

All key intersections were analyzed using the Critical Lane Volume (CLV) method except for the two roundabout intersections which were analyzed using SIDRA. The US Route 301 and MD 313 intersection was also analyzed with the Highway Capacity Manual (HCM) method and a queuing analysis were conducted for dedicated turn lanes at this intersection at proposed future traffic conditions. The existing lane configurations are shown on Exhibit 2.

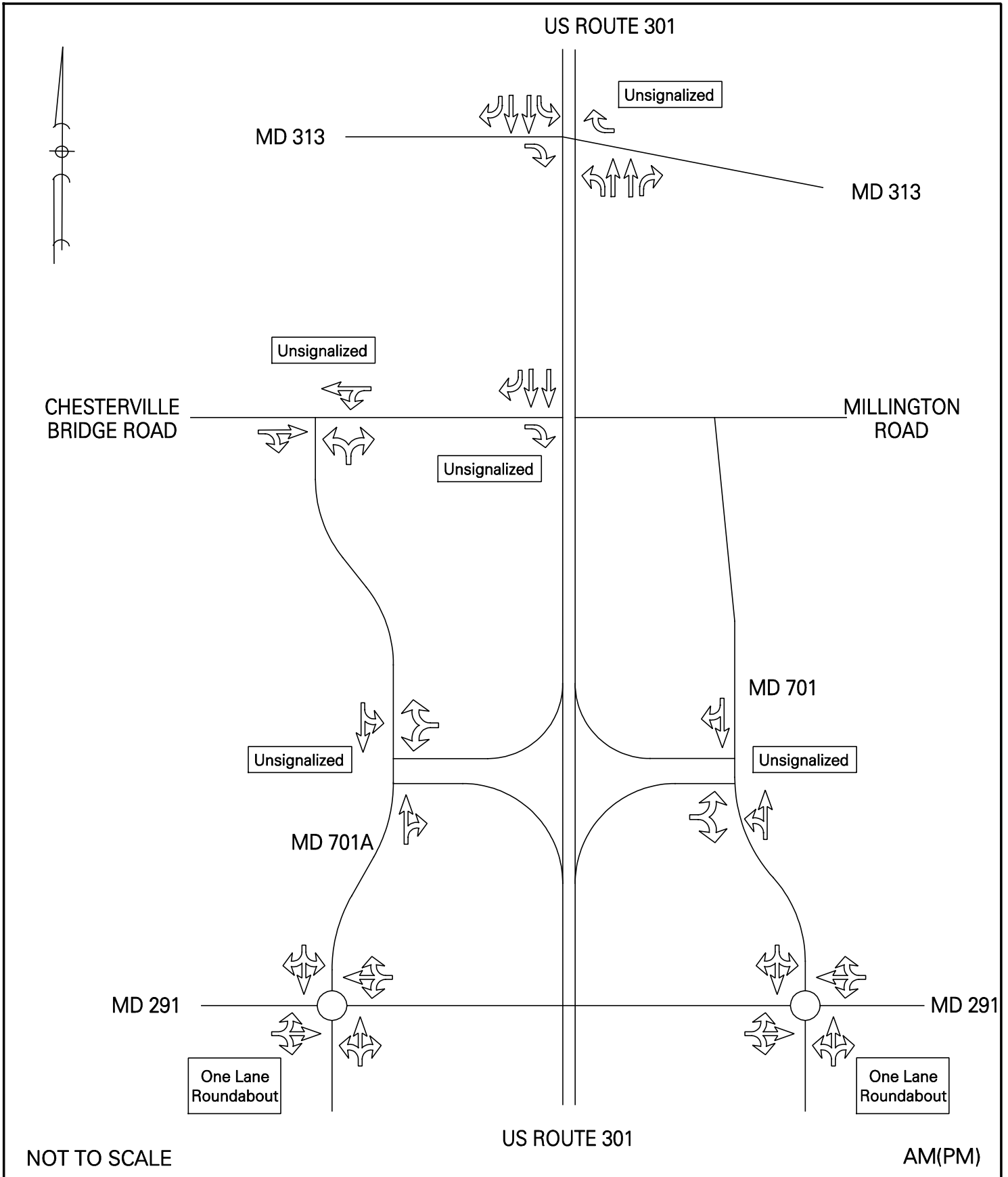


● - Intersection Studied

NOT TO SCALE

TRAFFIC CONCEPTS, INC.
7525 Connelley Drive
Suite B
Hanover, Maryland 21076
410-760-2911

EXHIBIT 1
Site Location Map



NOT TO SCALE

US ROUTE 301

AM(PM)

TRAFFIC CONCEPTS, INC.
 7525 Connelley Drive
 Suite B
 Hanover, Maryland 21076
 410-760-2911

EXHIBIT 2
 Existing Lane Configuration

EXISTING CONDITION

The existing traffic condition determines the peak hour traffic volumes that represent the base line traffic condition. The intersection turning movement counts, conducted at the key intersections, are provided in Appendix IV. The peak one-hour intersection movements are displayed on Exhibit 3.

CRITICAL LANE ANALYSIS

	AM <u>CLV(LOS)</u>	PM <u>CLV(LOS)</u>
US 301 @ MD 313	348(A)	408(A)
SB US 301 @ Chesterville Bridge Road	221(A)	268(A)
SB US 301 @ MD 701A Ramps	103(A)	144(A)
NB US 301 @ MD 701 Ramps	92(A)	154(A)
Chesterville Bridge Road @ MD 701A	22(A)	31(A)

HIGHWAY CAPACITY MANUAL, UNSIGNALIZED INTERSECTION (TWSC)

US 301 @ MD 313

	Approach LOS <u>AM(PM)</u>
Eastbound	A(B)
Westbound	A(A)
Northbound	A(A)
Southbound	A(A)

SIDRA ROUNDABOUT ANYLSYS

US 291 @ MD 701A

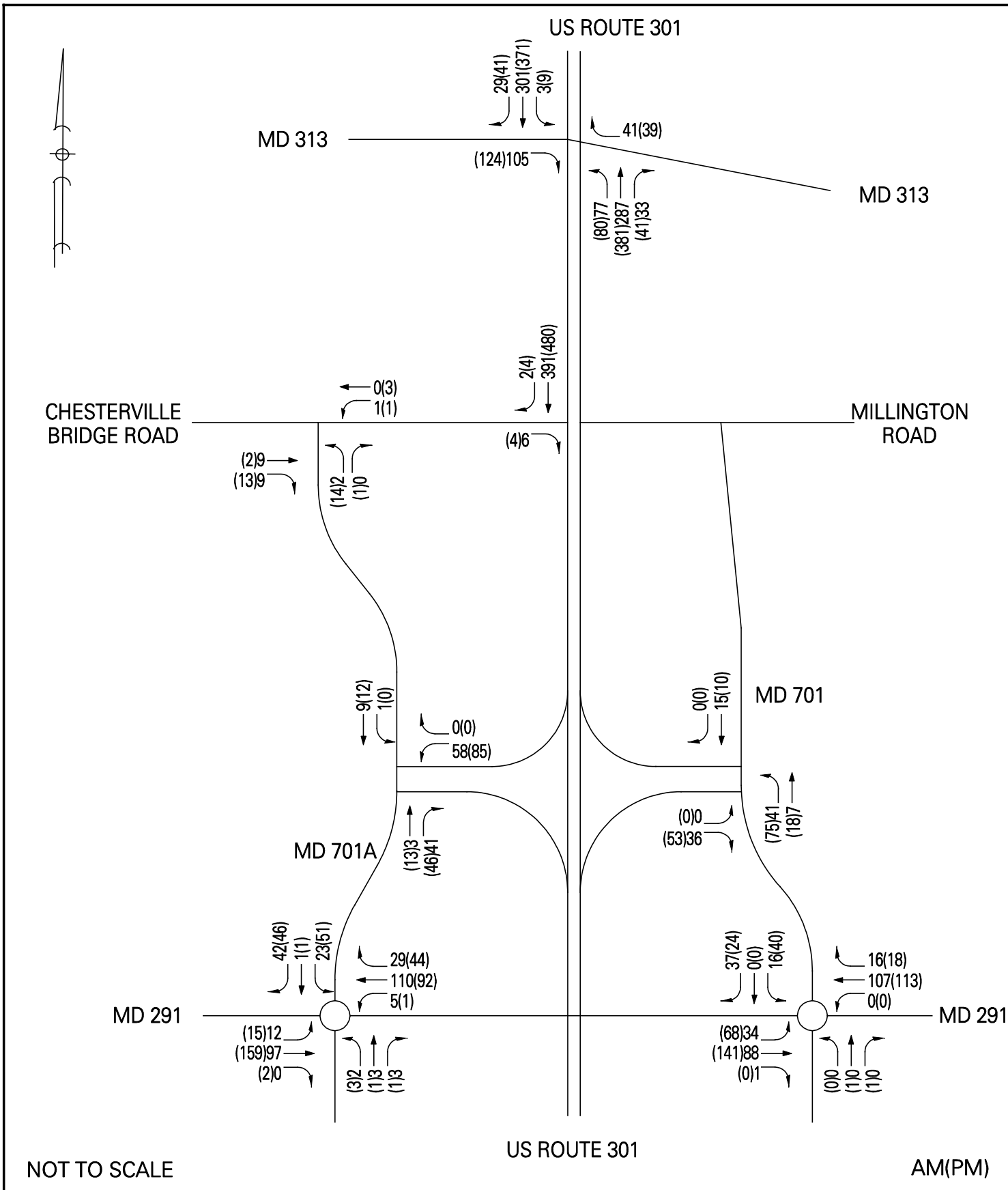
Overall LOS
AM(PM)

A(A)

US 291 @ MD 701

Overall LOS
AM(PM)

A(A)



NOT TO SCALE

US ROUTE 301

AM(PM)

TRAFFIC CONCEPTS, INC.
 7525 Connelley Drive
 Suite B
 Hanover, Maryland 21076
 410-760-2911

EXHIBIT 3
 Existing Traffic Volumes

BACKGROUND CONDITION

The background condition accounts for regional traffic that travels through the study area that is represented by a growth rate and local traffic generated by nearby background developments.

A 2 percent growth rate to the through traffic volumes over the project build-out period, which is two (2) years. Exhibit 4 shows the traffic volume increase.

Background developments are defined as approved projects that are not yet constructed or are not fully constructed. There are no current background developments in the area that would impact the intersections in this study.

The total background traffic volumes shown on Exhibit 5 were developed by adding the existing traffic volumes (Exhibit 3) with traffic generated by the growth rates. The background LOS results are listed on the following page and the LOS calculations are provided in Appendix I, II and III.

CRITICAL LANE ANALYSIS

	AM <u>CLV(LOS)</u>	PM <u>CLV(LOS)</u>
US 301 @ MD 313	361(A)	424(A)
SB US 301 @ Chesterville Bridge Road	230(A)	278(A)
SB US 301 @ MD 701A Ramps	103(A)	144(A)
NB US 301 @ MD 701 Ramps	92(A)	154(A)
Chesterville Bridge Road @ MD 701A	22(A)	31(A)

HIGHWAY CAPACITY MANUAL, UNSIGNALIZED INTERSECTION (TWSC)

US 301 @ MD 313

	Approach LOS <u>AM(PM)</u>
Eastbound	A(B)
Westbound	A(A)
Northbound	A(A)
Southbound	A(A)

SIDRA ROUNDABOUT ANYLSYS

US 291 @ MD 701A

Overall LOS

AM(PM)

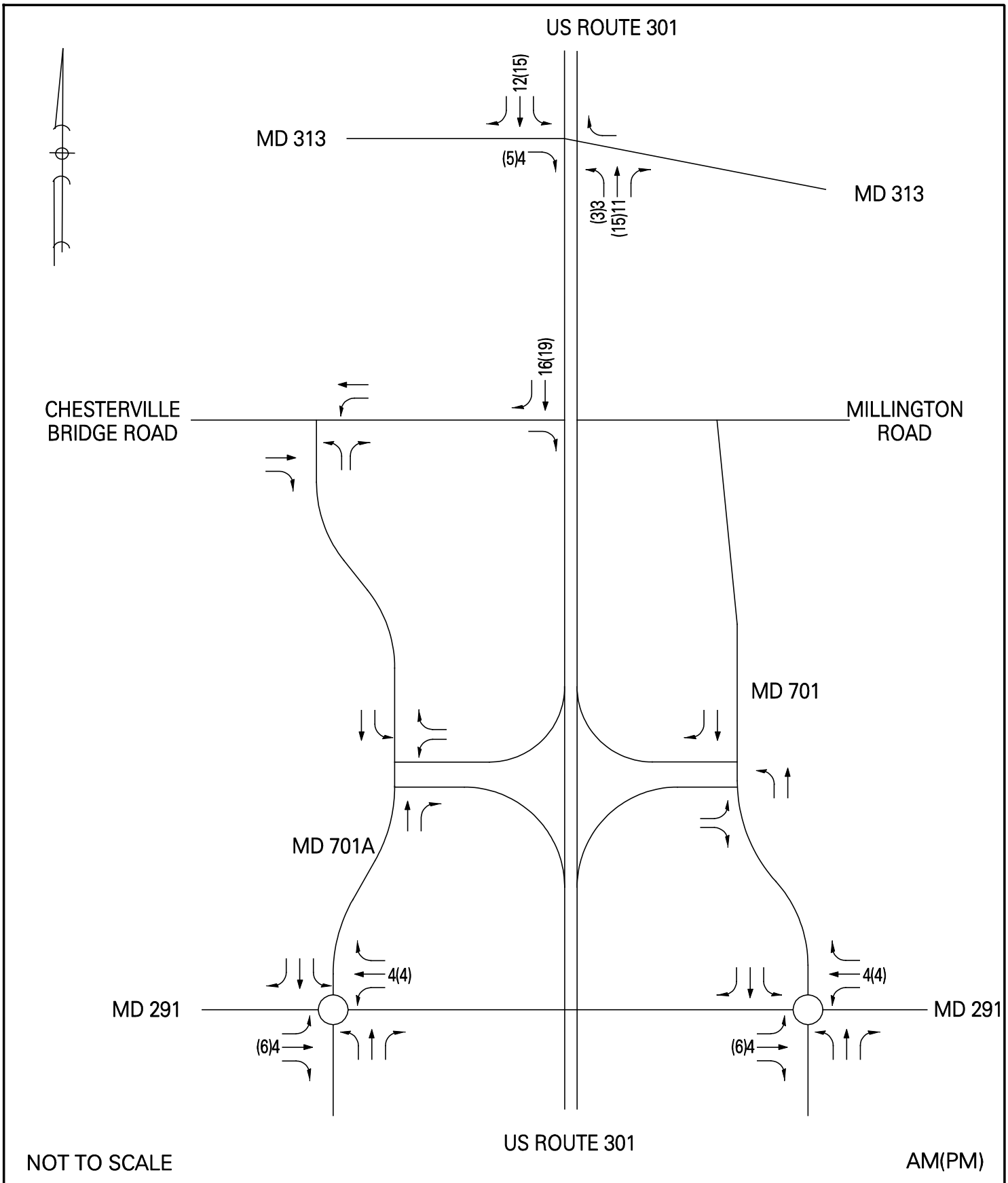
A(A)

US 291 @ MD 701

Overall LOS

AM(PM)

A(A)



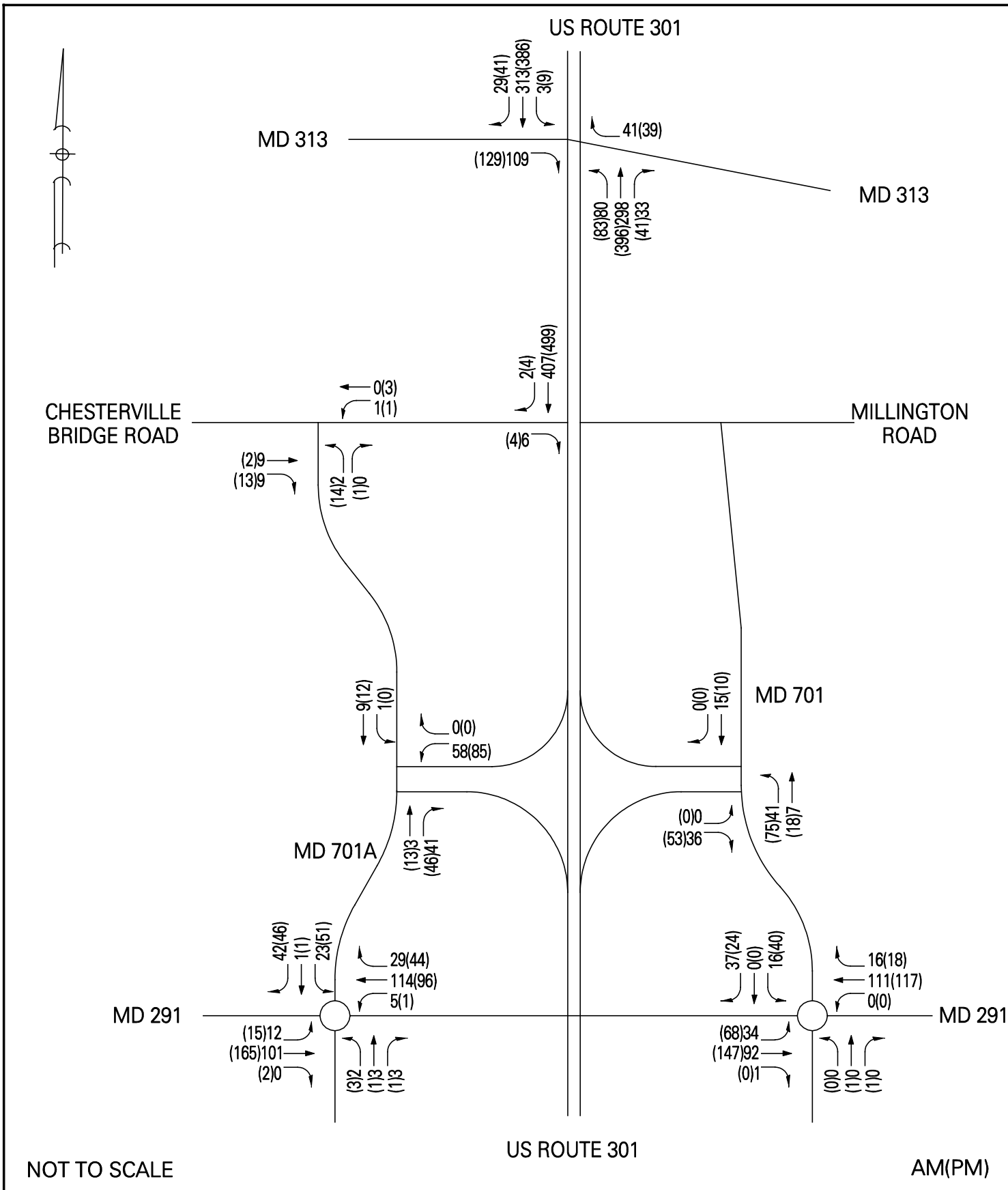
NOT TO SCALE

US ROUTE 301

AM(PM)

TRAFFIC CONCEPTS, INC.
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EXHIBIT 4
 Projected Growth Rates
 (2% for Two Years)



NOT TO SCALE

US ROUTE 301

AM(PM)

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EXHIBIT 5
 Background Traffic Volumes

FUTURE CONDITION

The future traffic condition determines the new peak hour trips generated by 513,848 gsf of warehousing. The new site trips were generated with data contained in the Institute of Transportation Engineers' (ITE), Trip Generation Manual, 11th Edition. The ITE trip data are provided in Appendix V.

SITE TRIPS:

	AM		PM	
	<u>IN</u>	<u>OUT</u>	<u>IN</u>	<u>OUT</u>
Warehousing				
ITE Land Use Code 150				
513.85k gsf				
New Truck Trips*	8	2	4	11
New Car Trips*	58	17	20	53
Total New Trips	66	19	24	64

*The distribution between truck and car trips was taken from the ITE Trip Distribution Data Plots for Trucks using the Peak AM and PM graphs and are located in Appendix V.

The new site trips distribution patterns shown on Exhibit 6 and Exhibit 7 and are based on the existing traffic pattern and information contained and approved traffic studies. The total future traffic volumes (Exhibit 8) were generated by adding the new site trips to the total background trips (Exhibit 5). The key intersections were analyzed with the total future traffic volumes, as reported below and on the following page. The CLV, HCM and SIDRA reports are included in Appendix I, II and III. Autoturn exhibits can be found in Appendix VI and show future truck traffic will be able to safely use the existing roundabouts with no modifications.

CRITICAL LANE ANALYSIS

	<u>AM CLV(LOS)</u>	<u>PM CLV(LOS)</u>
US 301 @ MD 313	383(A)	437(A)
SB US 301 @ Chesterville Bridge Road	238(A)	281(A)
SB US 301 @ MD 701A Ramps	161(A)	183(A)
NB US 301 @ MD 701 Ramps	124(A)	193(A)
Chesterville Bridge Road @ MD 701A	35(A)	35(A)
Chesterville Bridge Road @ North Building Truck Access	23(A)	24(A)
MD 701A @ North Building Car Access	45(A)	66(A)
MD 701A @ South Building Truck Access	39(A)	53(A)
MD 701A @ South Building Car Access	65(A)	83(A)

HIGHWAY CAPACITY MANUAL, UNSIGNALIZED INTERSECTION (TWSC)

US 301 @ MD 313

	<u>Approach LOS AM(PM)</u>
Eastbound	B(B)
Westbound	A(A)
Northbound	A(A)
Southbound	A(A)

SIDRA ROUNDABOUT ANYLSYS

US 291 @ MD 701A

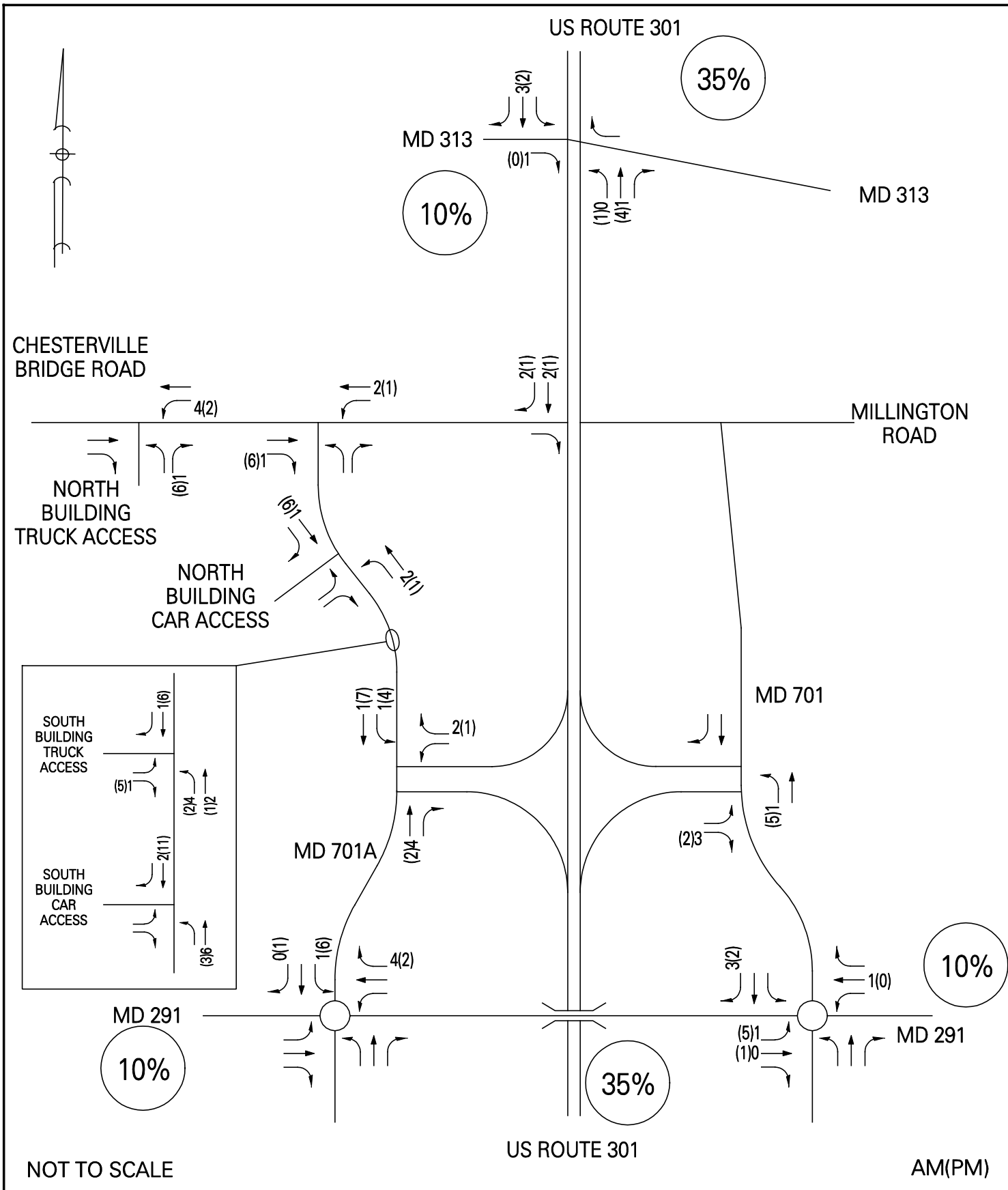
Overall LOS
AM(PM)

A(A)

US 291 @ MD 701

Overall LOS
AM(PM)

A(A)



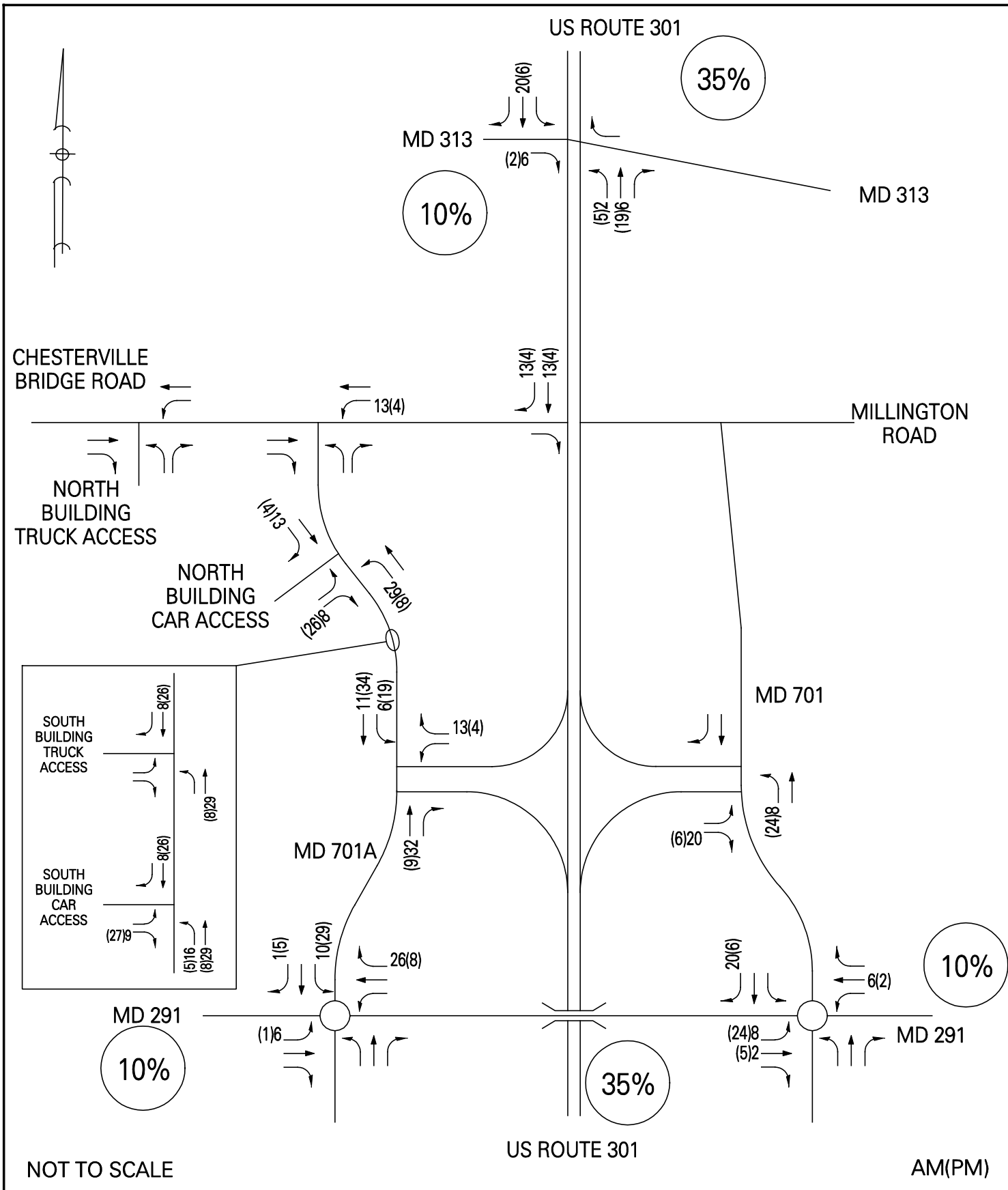
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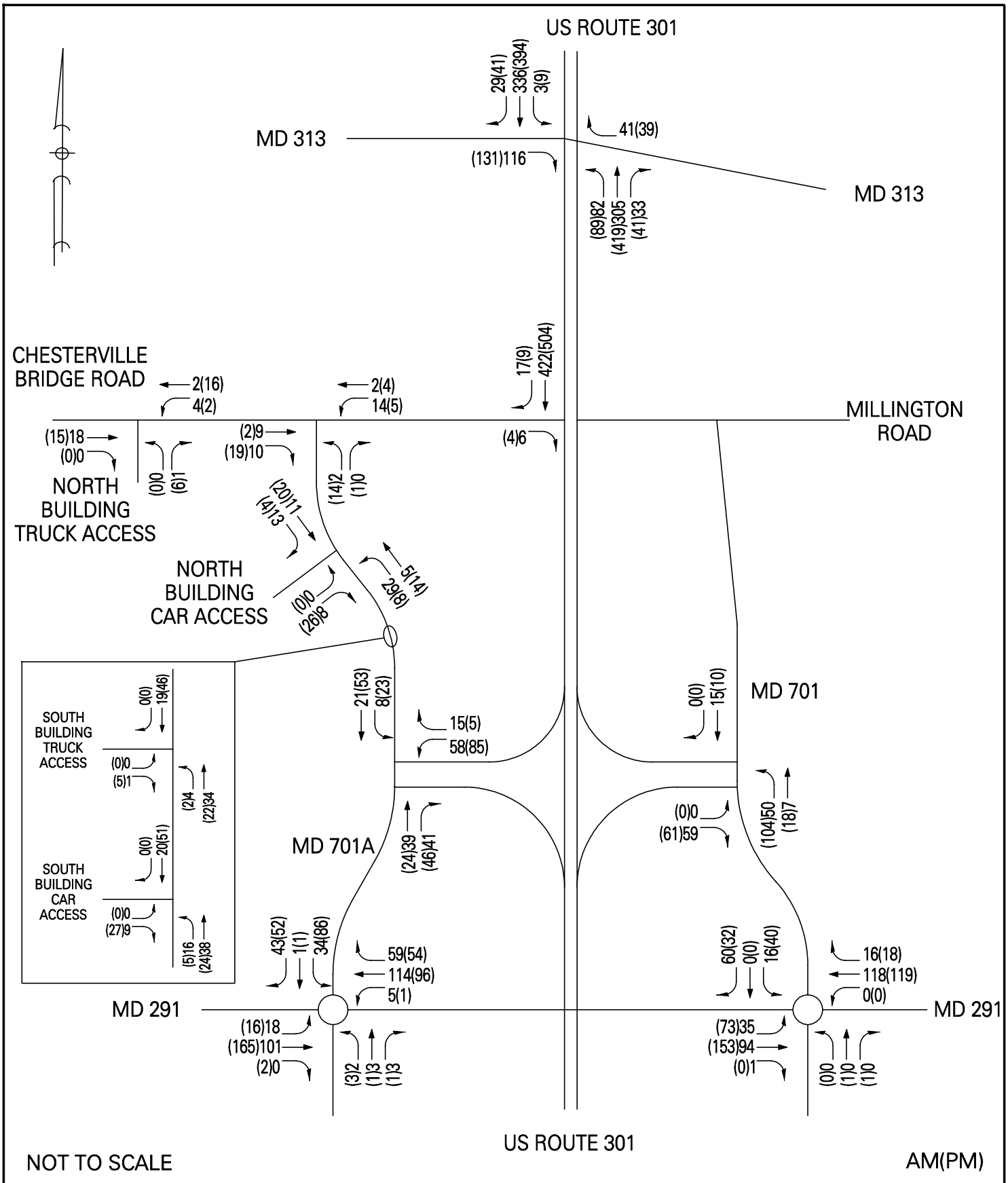
US ROUTE 301

AM(PM)

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EXHIBIT 6
 Site Generated Traffic - Trucks





NOT TO SCALE

US ROUTE 301

AM(PM)

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EXHIBIT 8
 Total Future Traffic Volumes

Queuing Analysis

A queuing analysis was also conducted for the northbound left turn movement at the US 301 at MD 313 unsignalized intersection. The SHA 95th Percentile Back-of-Queue formula was used to generate vehicle queues for the total future traffic volumes.

$$\text{SHA Formula} - \frac{\text{Volume} \times \text{Cycle Length}}{3600} \times 1.4 \times 25' = \text{Queue}$$

US 40 @ Site Access (Unsignalized)

Eastbound Left

$$\begin{aligned} \text{AM Peak} &= [(82 \times 1.0) \times 90] / 3600 \times 1.4 \times 25' = 72' \\ \text{PM Peak} &= [(89 \times 1.0) \times 90] / 3600 \times 1.4 \times 25' = 78' \end{aligned}$$

$$\text{Storage Length} = 1500'$$

CONCLUSIONS AND RECOMMENDATIONS

The Critical Lane Volume (CLV) results show that all of the study intersections would operate at “A” levels of service under the total future traffic condition. The Highway Capacity Manual (HCM) analysis determined the key intersections would operate with adequate “B” or better conditions levels of service (LOS) at projected future traffic conditions. Sidra analysis determined the key roundabouts would operate at “A” levels of service under the total future traffic condition. Additionally, the queuing analyses show adequate storage is available at the key intersection where left turn bays exist.

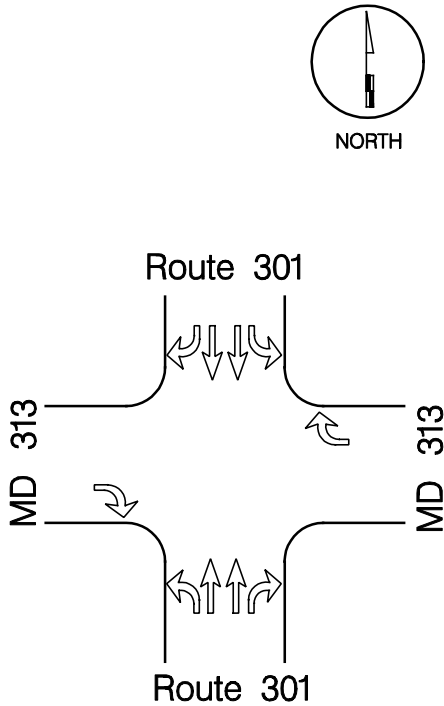
Therefore, based on the study results, we recommend approval of this development from a traffic impact standpoint.



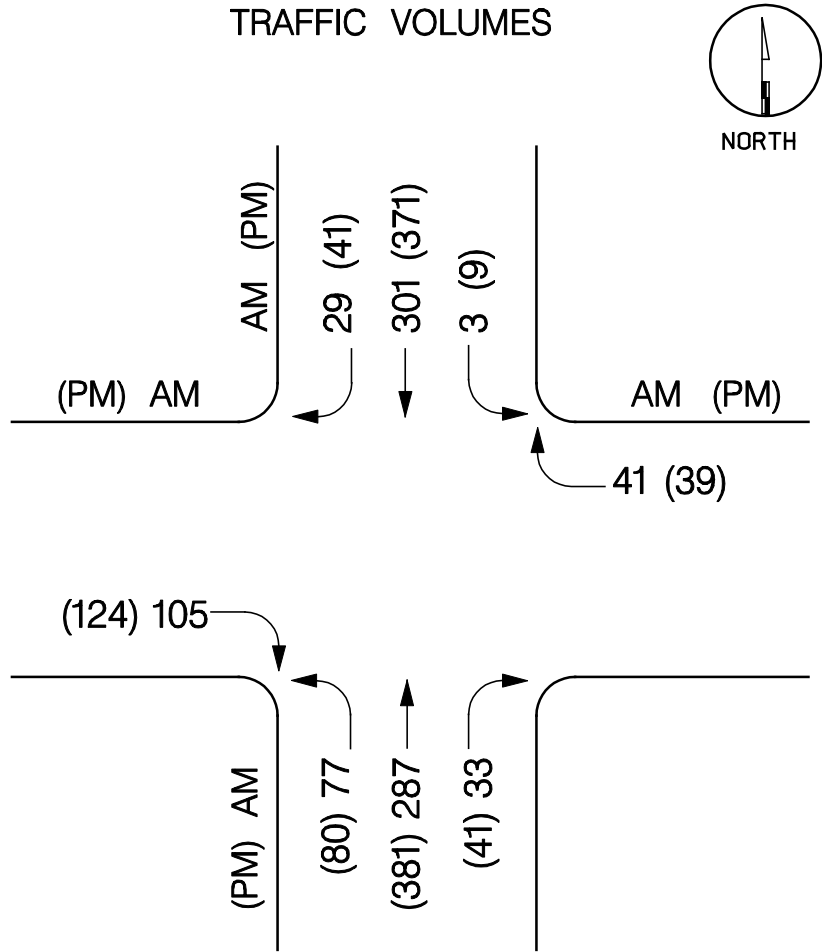
APPENDIX I CLV CALCULATIONS

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LANE CONFIGURATION



TRAFFIC VOLUMES



	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =					CRITICAL LANE VOLUME	LEVEL OF SERVICE				
AM	NB	287	*	0.55	+	3	*	1	=	161	A 348
	SB	301	*	0.55	+	77	*	1	=	243*	
	EB	105	*	1	=	105*					
	WB	41	*	1	=	41					
PM	NB	381	*	0.55	+	9	*	1	=	219	A 408
	SB	371	*	0.55	+	80	*	1	=	284*	
	EB	124	*	1	=	124*					
	WB	39	*	1	=	39					

CRITICAL LANE ANALYSIS

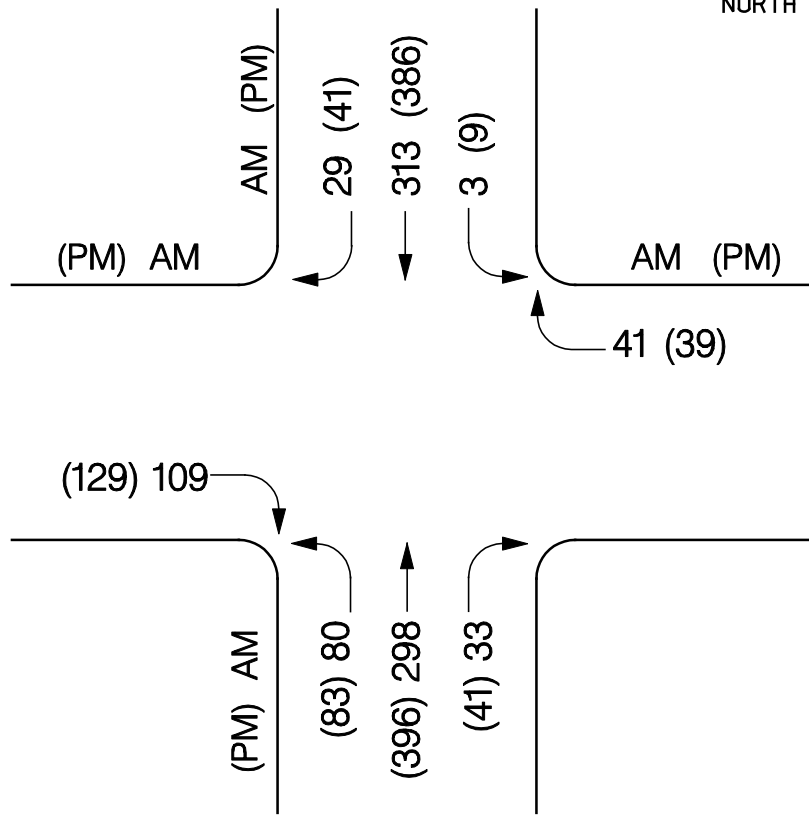
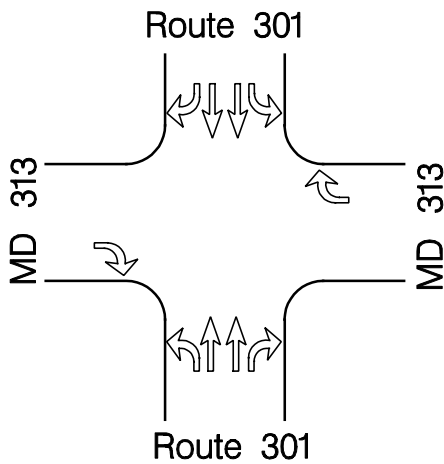
Prepared By: B. SCHMID Condition: EXISTING

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TRAFFIC VOLUMES



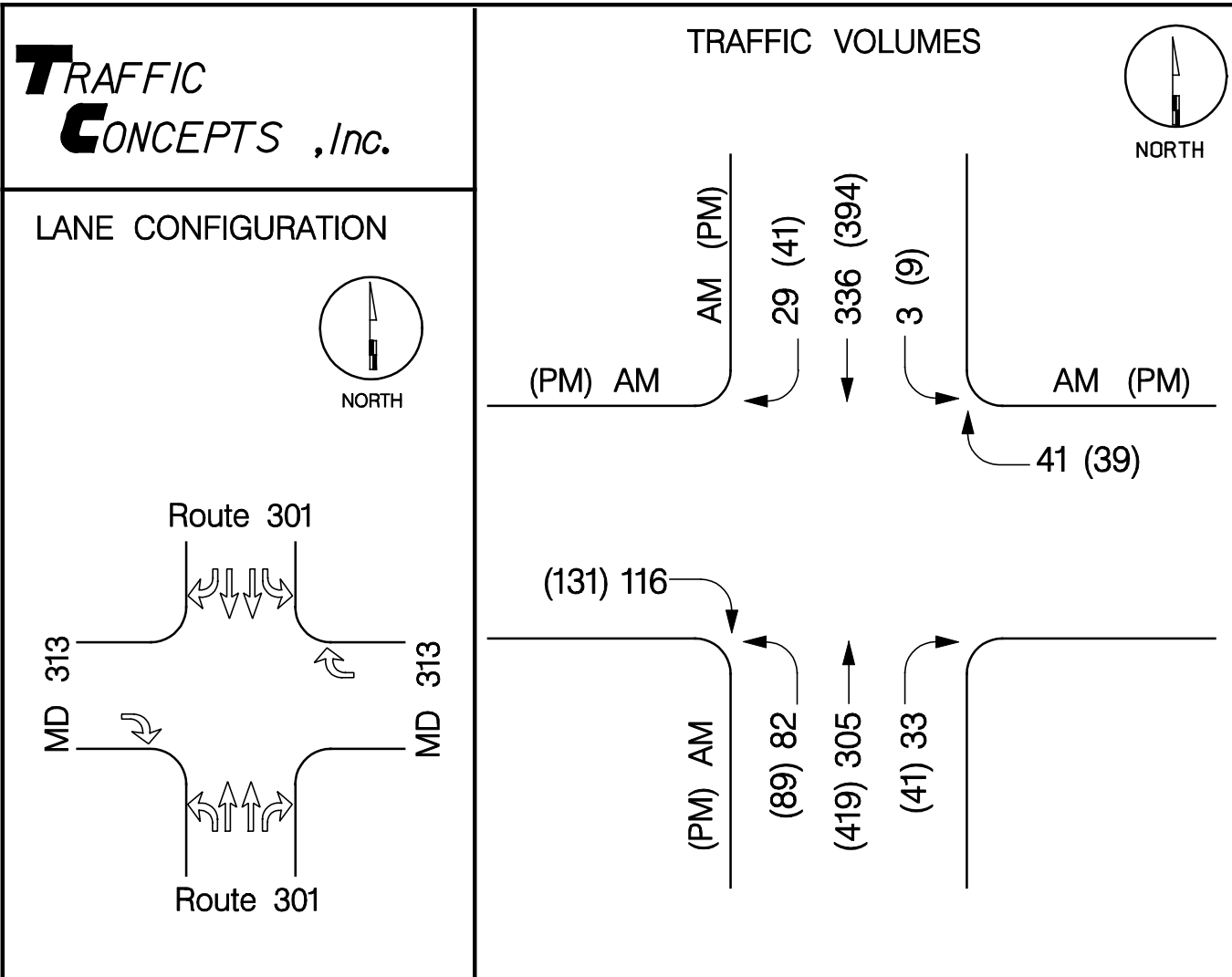
LANE CONFIGURATION



		TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =					CRITICAL LANE VOLUME	LEVEL OF SERVICE			
AM	NB	298	*	0.55	+	3	*	1	=	167	A 361
	SB	313	*	0.55	+	80	*	1	=	252*	
	EB	109	*	1					=	109*	
	WB	41	*	1					=	41	
PM	NB	396	*	0.55	+	9	*	1	=	227	A 424
	SB	386	*	0.55	+	83	*	1	=	295*	
	EB	129	*	1					=	129*	
	WB	39	*	1					=	39	

CRITICAL LANE ANALYSIS

Prepared By: B. SCHMID Condition: BACKGROUND



		TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =					CRITICAL LANE VOLUME	LEVEL OF SERVICE			
AM	NB	305	*	0.55	+	3	*	1	=	171	A 383
	SB	336	*	0.55	+	82	*	1	=	267*	
	EB	116	*	1			*		=	116*	
	WB	41	*	1			*		=	41	
PM	NB	419	*	0.55	+	9	*	1	=	239	A 437
	SB	394	*	0.55	+	89	*	1	=	306*	
	EB	131	*	1			*		=	131*	
	WB	39	*	1			*		=	39	

CRITICAL LANE ANALYSIS

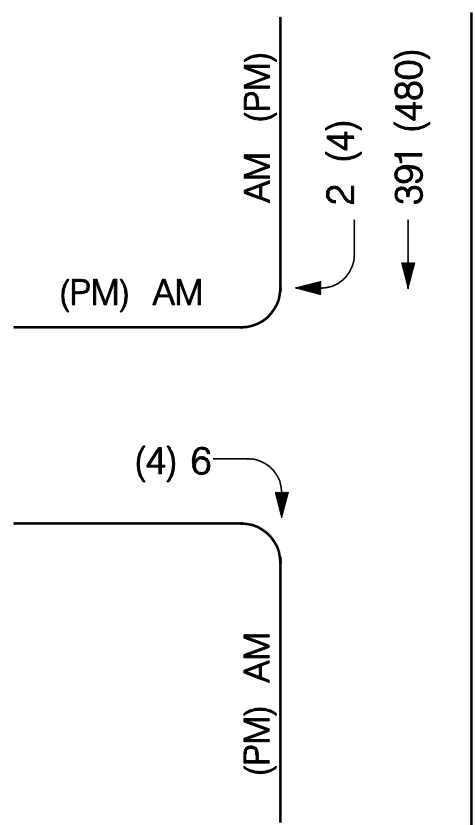
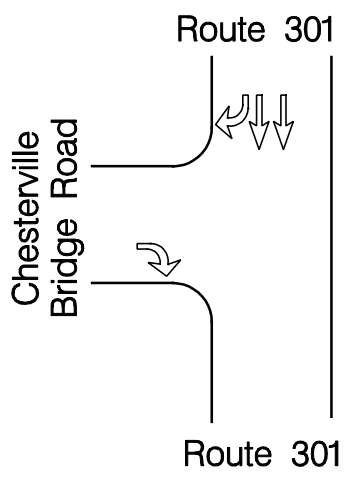
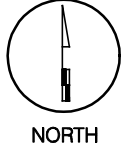
Prepared By: B. SCHMID Condition: FUTURE



TRAFFIC VOLUMES



LANE CONFIGURATION



		TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =			CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB					A 221
	SB	391	* 0.55	=	215*	
	EB	6	* 1	=	6*	
	WB					
PM	NB					B 268
	SB	480	* 0.55	=	264*	
	EB	4	* 1	=	4*	
	WB					

CRITICAL LANE ANALYSIS

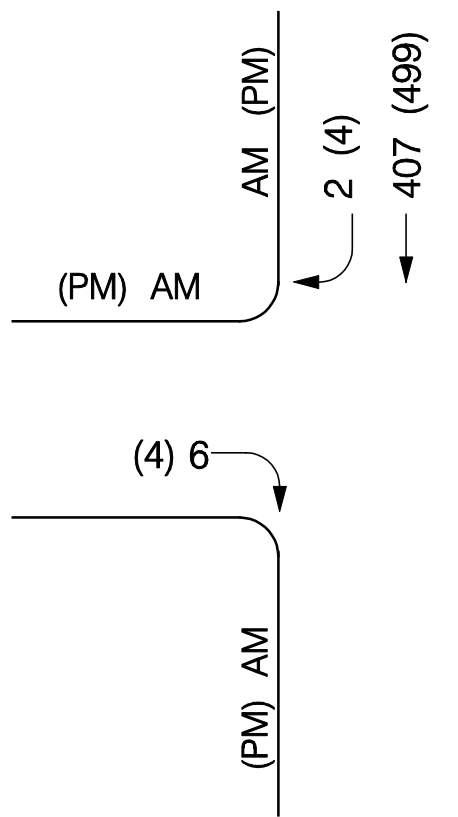
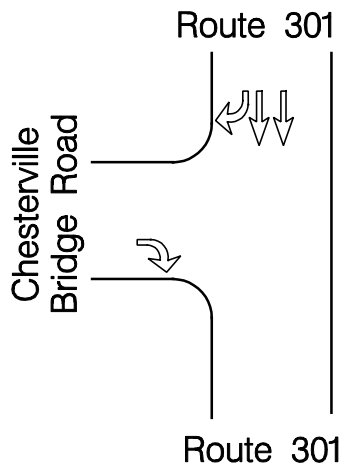
Prepared By: B. SCHMID Condition: EXISTING

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TRAFFIC VOLUMES



LANE CONFIGURATION



		TOTAL VOLUME * LUF		+	OPPOSING LEFTS * LUF =		CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB							
	SB	407	* 0.55	=		224*		
	EB	6	* 1	=		6*	A	
	WB						230	
PM	NB							
	SB	499	* 0.55	=		274*		
	EB	4	* 1	=		4*	B	
	WB						278	

CRITICAL LANE ANALYSIS

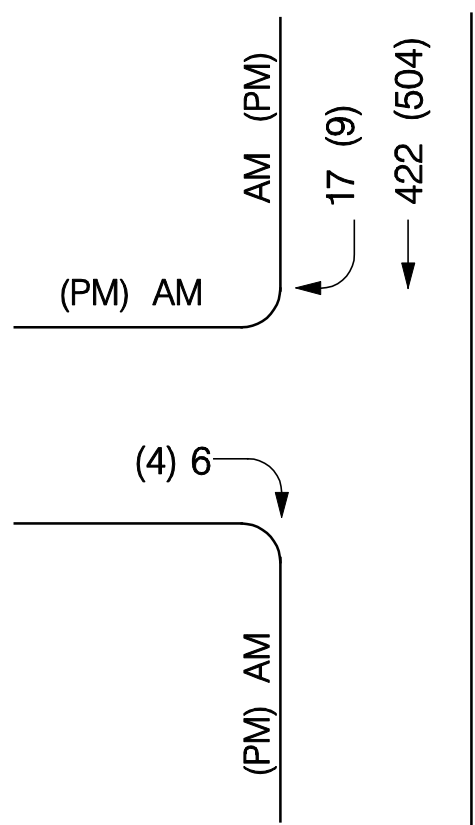
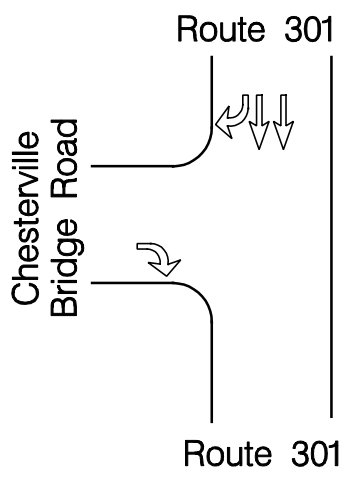
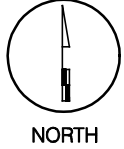
Prepared By: B. SCHMID Condition: BACKGROUND



TRAFFIC VOLUMES



LANE CONFIGURATION



		TOTAL VOLUME * LUF		+	OPPOSING LEFTS * LUF =		CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB							A 238
	SB	422	* 0.55	=		232*		
	EB	6	* 1	=		6*		
	WB							
PM	NB							B 281
	SB	504	* 0.55	=		277*		
	EB	4	* 1	=		4*		
	WB							

CRITICAL LANE ANALYSIS

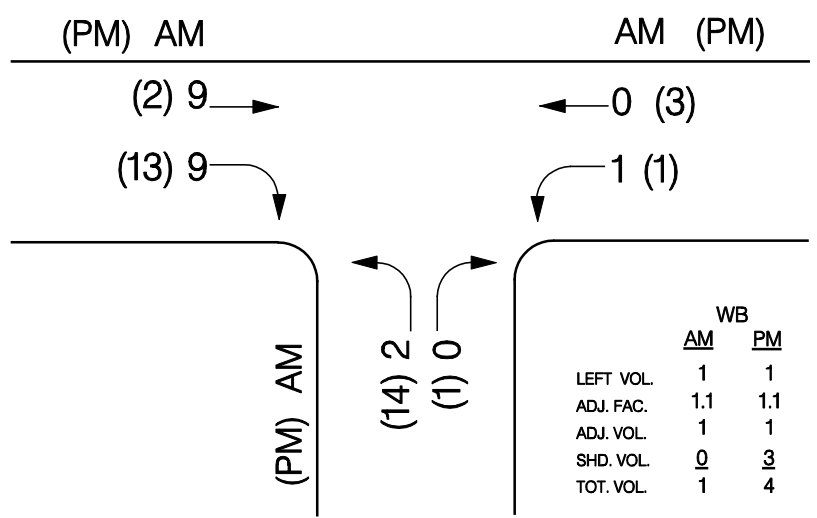
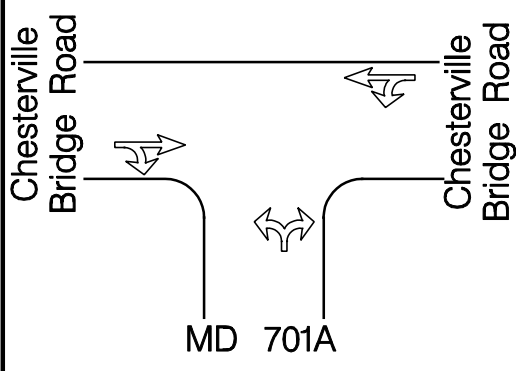
Prepared By: B. SCHMID Condition: FUTURE



TRAFFIC VOLUMES



LANE CONFIGURATION



	WB	
	AM	PM
LEFT VOL.	1	1
ADJ. FAC.	1.1	1.1
ADJ. VOL.	1	1
SHD. VOL.	0	3
TOT. VOL.	1	4

		TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =				CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB	2	*	1	=	2*	A 22
	SB	—				—	
	EB	(9+9)	*	1	+ 1 * 1	= 19*	
	WB	1	*	1		= 1	
PM	NB	(14+1)	*	1	=	15*	A 31
	SB	—				—	
	EB	(2+13)	*	1	+ 1 * 1	= 16*	
	WB	4	*	1		= 4	

CRITICAL LANE ANALYSIS

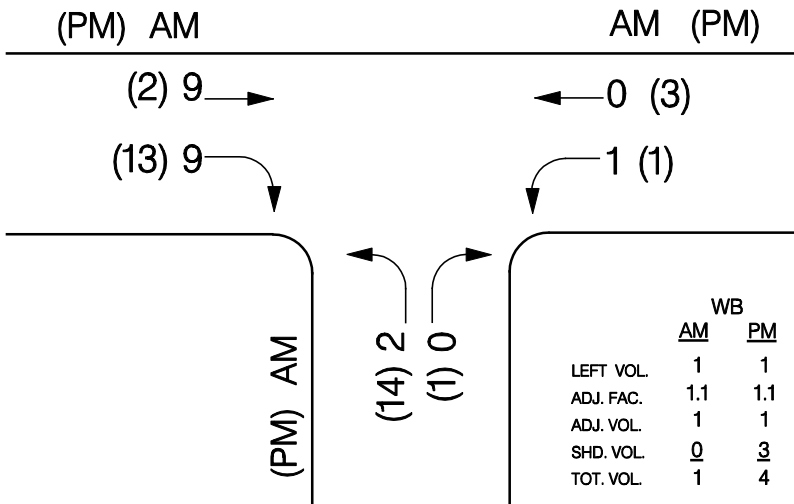
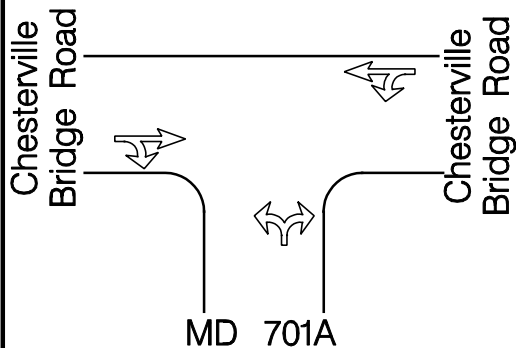
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TRAFFIC VOLUMES



LANE CONFIGURATION



		TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =				CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB	2	*	1	=	2*	A 22
	SB	—				—	
	EB	(9+9)	*	1	+ 1 * 1 =	19*	
	WB	1	*	1	=	1	
PM	NB	(14+1)	*	1	=	15*	A 31
	SB	—				—	
	EB	(2+13)	*	1	+ 1 * 1 =	16*	
	WB	4	*	1	=	4	

CRITICAL LANE ANALYSIS

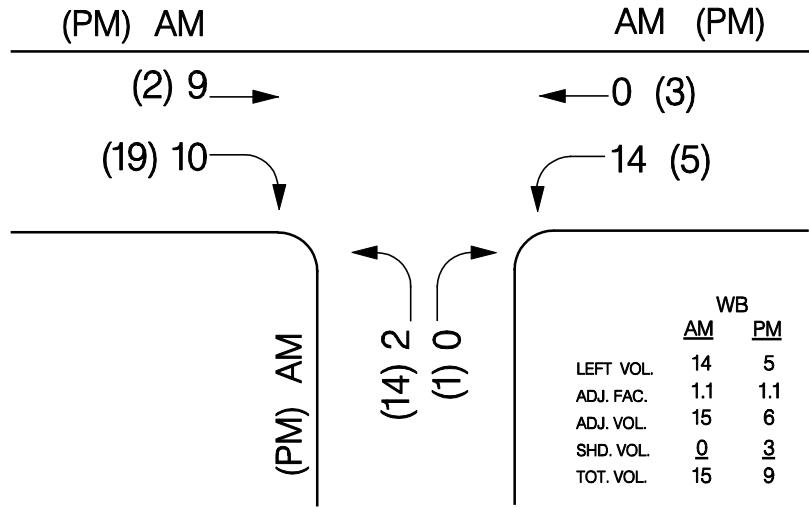
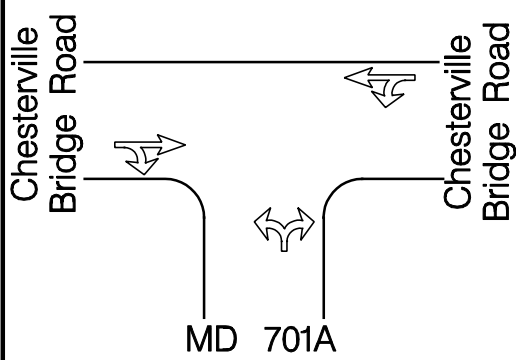
Prepared By: B. SCHMID Condition: BACKGROUND



TRAFFIC VOLUMES



LANE CONFIGURATION



	WB	
	AM	PM
LEFT VOL.	14	5
ADJ. FAC.	1.1	1.1
ADJ. VOL.	15	6
SHD. VOL.	0	3
TOT. VOL.	15	9

		TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =				CRITICAL LANE VOLUME	LEVEL OF SERVICE	
AM	NB	2	*	1	=	2*	A 35	
	SB	—				—		
	EB	(9 + 10)	*	1	+ 14	* 1 =		33*
	WB	15	*	1				15
PM	NB	(14 + 1)	*	1	=	15*	A 35	
	SB	—				—		
	EB	(2 + 13)	*	1	+ 5	* 1 =		20*
	WB	9	*	1				9

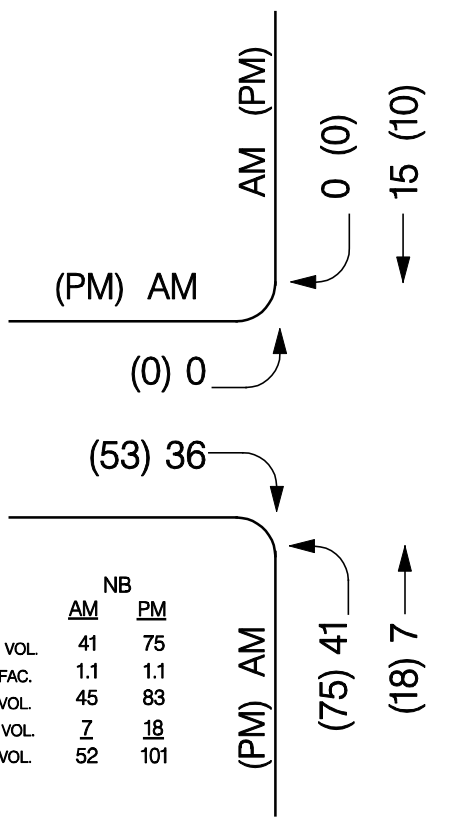
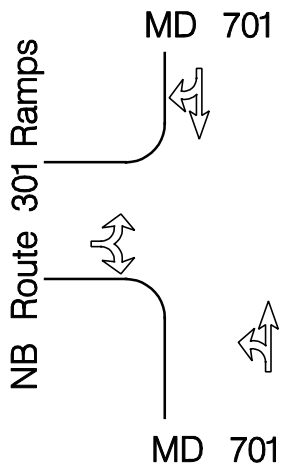
CRITICAL LANE ANALYSIS

Prepared By: B. SCHMID Condition: FUTURE

TRAFFIC VOLUMES



LANE CONFIGURATION



	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =					CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB	52	*	1	=	52	A 92
	SB	15	*	1	+ 41 * 1 =	56*	
	EB	36	*	1	=	36*	
	WB	—					
PM	NB	101	*	1	=	101*	A 154
	SB	10	*	1	+ 75 * 1 =	85	
	EB	53	*	1	=	53*	
	WB	—					

CRITICAL LANE ANALYSIS

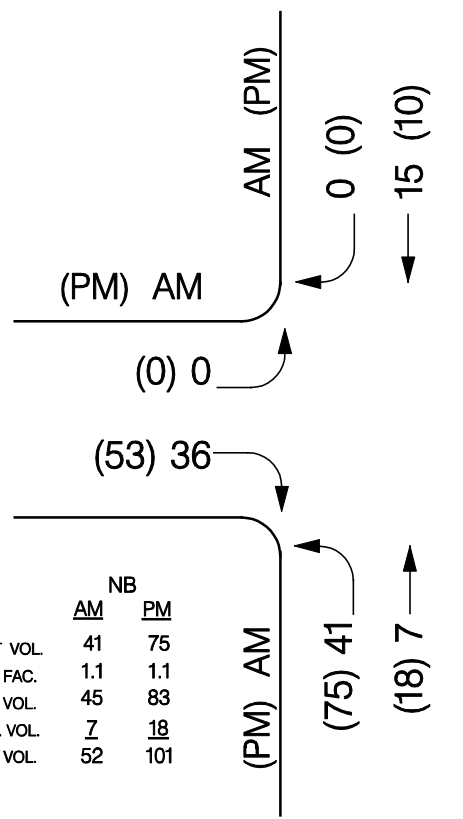
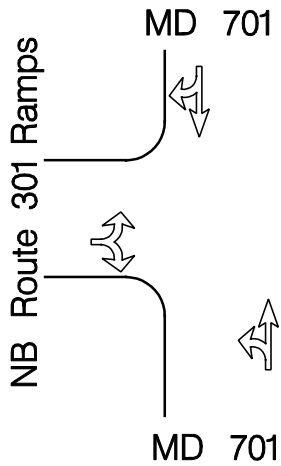
Prepared By: B. SCHMID Condition: EXISTING

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TRAFFIC VOLUMES



LANE CONFIGURATION



	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =					CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB	52	*	1	=	52	A 92
	SB	15	*	1	+ 41 * 1 =	56*	
	EB	36	*	1	=	36*	
	WB	—					
PM	NB	101	*	1	=	101*	A 154
	SB	10	*	1	+ 75 * 1 =	85	
	EB	53	*	1	=	53*	
	WB	—					

CRITICAL LANE ANALYSIS

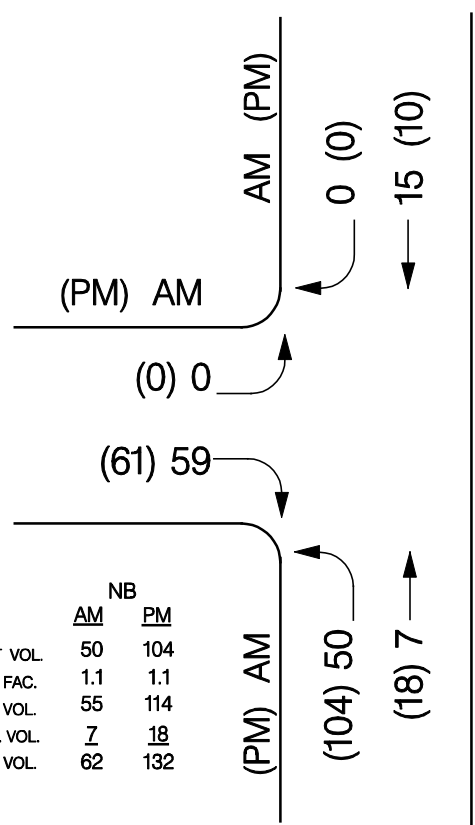
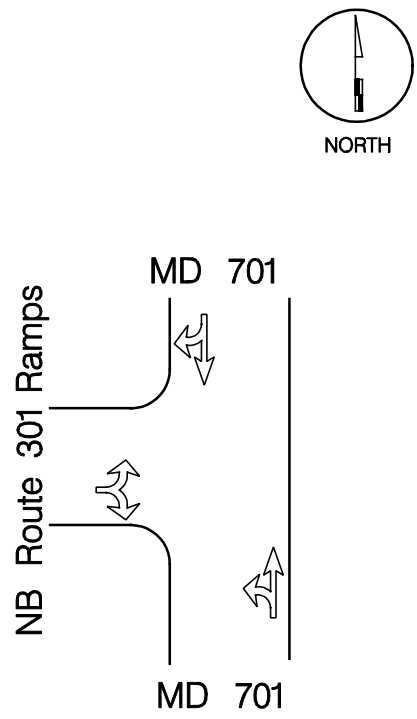
Prepared By: B. SCHMID Condition: BACKGROUND



TRAFFIC VOLUMES



LANE CONFIGURATION



	NB	
	AM	PM
LEFT VOL.	50	104
ADJ. FAC.	1.1	1.1
ADJ. VOL.	55	114
SHD. VOL.	7	18
TOT. VOL.	62	132

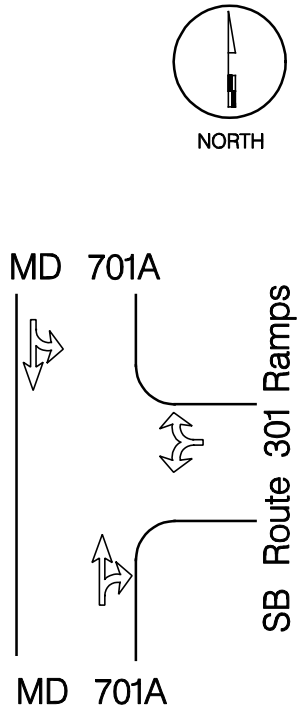
	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =					CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB	62	*	1	=	62	A 124
	SB	15	*	1	+ 50 * 1 =	65*	
	EB	59	*	1	=	59*	
	WB				—	—	
PM	NB	132	*	1	=	132*	A 193
	SB	10	*	1	+ 104 * 1 =	114	
	EB	61	*	1	=	61*	
	WB				—	—	

CRITICAL LANE ANALYSIS

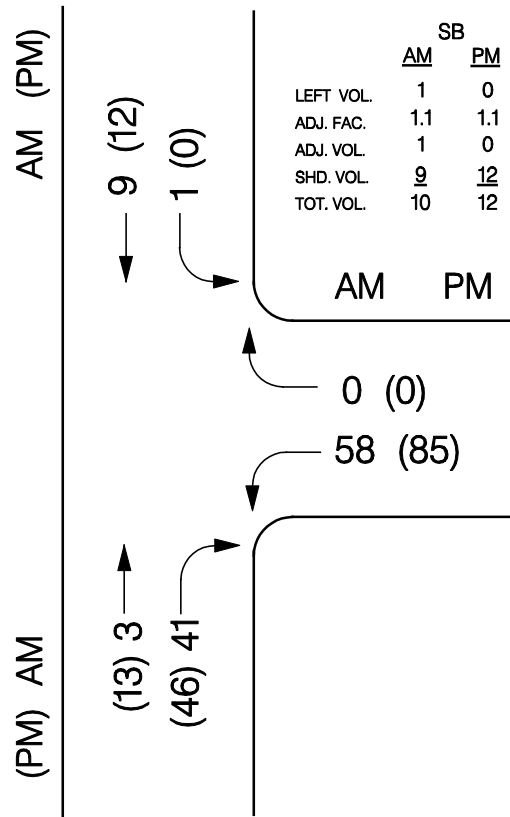
Prepared By: B. SCHMID Condition: FUTURE

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LANE CONFIGURATION



TRAFFIC VOLUMES



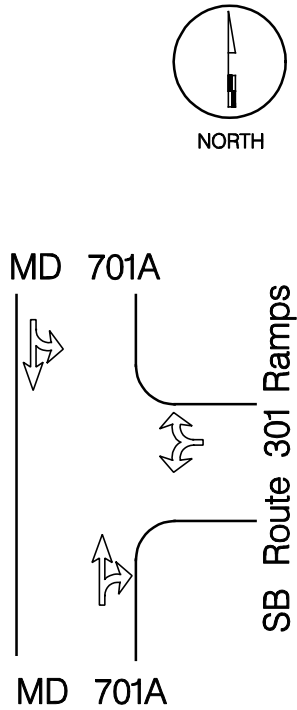
	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =						CRITICAL LANE VOLUME	LEVEL OF SERVICE			
AM	NB	(3 + 41)	*	1	+	1	*	1	=	45*	A 103
	SB	10	*	1					=	10	
	EB				—					—	
	WB	58	*	1					=	58*	
PM	NB	(13 + 46)	*	1	+	0	*	1	=	59*	A 144
	SB	12	*	1					=	12	
	EB				—					—	
	WB	85	*	1					=	85*	

CRITICAL LANE ANALYSIS

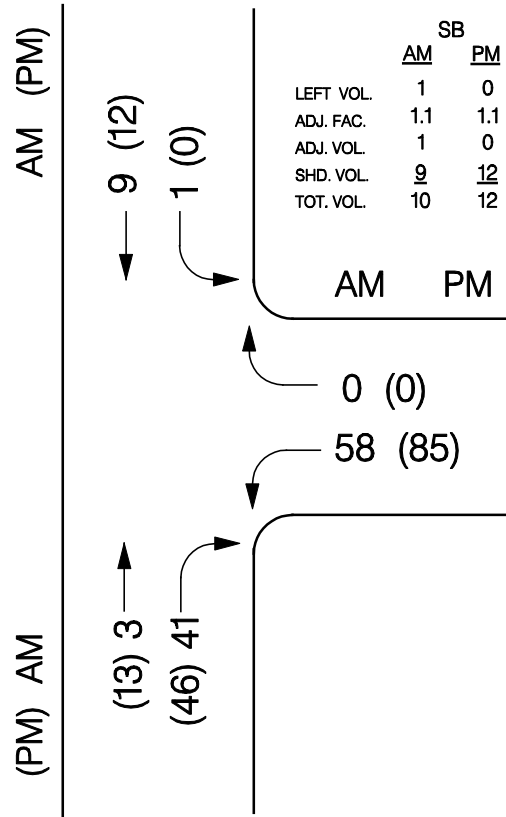
Prepared By: B. SCHMID Condition: EXISTING

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LANE CONFIGURATION



TRAFFIC VOLUMES



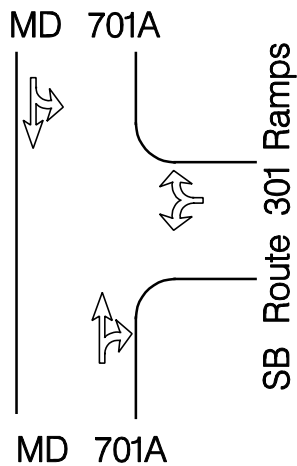
	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =						CRITICAL LANE VOLUME	LEVEL OF SERVICE			
AM	NB	(3 + 41)	*	1	+	1	*	1	=	45*	A 103
	SB	10	*	1					=	10	
	EB				—					—	
	WB	58	*	1					=	58*	
PM	NB	(13 + 46)	*	1	+	0	*	1	=	59*	A 144
	SB	12	*	1					=	12	
	EB				—					—	
	WB	85	*	1					=	85*	

CRITICAL LANE ANALYSIS

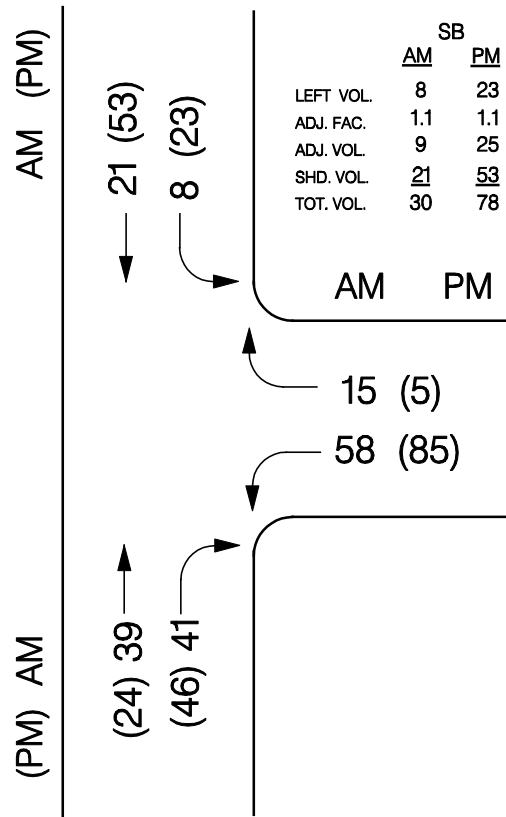
Prepared By: B. SCHMID Condition: BACKGROUND

TRAFFIC CONCEPTS, Inc.

LANE CONFIGURATION



TRAFFIC VOLUMES



	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =						CRITICAL LANE VOLUME	LEVEL OF SERVICE			
AM	NB	(39 + 41)	*	1	+	8	*	1	=	88*	A 161
	SB	30	*	1					=	30	
	EB				—					—	
	WB	(58 + 15)	*	1					=	73*	
PM	NB	(24 + 46)	*	1	+	23	*	1	=	93*	A 183
	SB	78	*	1					=	78	
	EB				—					—	
	WB	(85 + 5)	*	1					=	90*	

CRITICAL LANE ANALYSIS

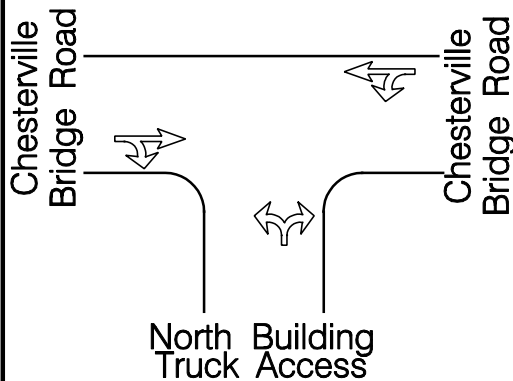
Prepared By: B. SCHMID Condition: FUTURE

TRAFFIC
CONCEPTS ,Inc.

TRAFFIC VOLUMES



LANE CONFIGURATION



(PM) AM

AM (PM)

(15) 18 →
(0) 0 ↘

← 2 (16)
↙ 4 (2)

(PM) AM

(0) 0
(6) 1

	WB	
	AM	PM
LEFT VOL.	4	2
ADJ. FAC.	1.1	1.1
ADJ. VOL.	4	2
SHD. VOL.	2	16
TOT. VOL.	6	18

		TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =				CRITICAL LANE VOLUME	LEVEL OF SERVICE	
AM	NB	1	*	1	=	1*		
	SB				=	—		
	EB	18	*	1	+ 4	* 1 =	22*	A
	WB	6	*	1			6	
PM	NB	6	*	1	=	6*		
	SB				=	—		
	EB	15	*	1	+ 2	* 1 =	17	A
	WB	18	*	1			18*	

CRITICAL LANE ANALYSIS

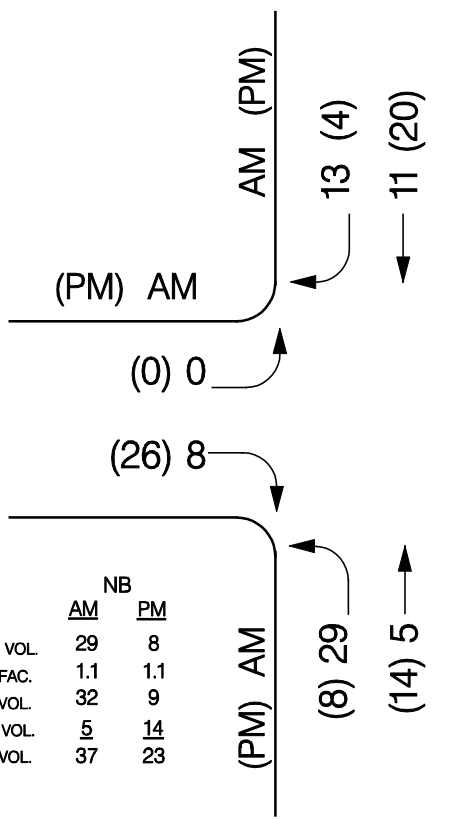
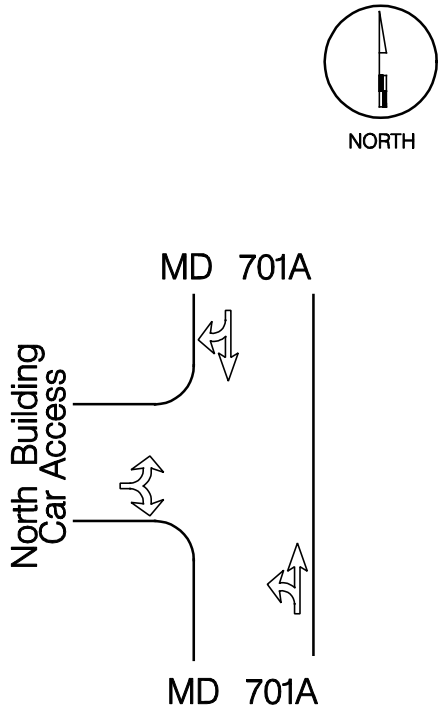
Prepared By: B. SCHMID Condition: FUTURE

TRAFFIC CONCEPTS, Inc.

TRAFFIC VOLUMES



LANE CONFIGURATION



		TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =				CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB	37	*	1	=	37*	A 45
	SB	(20 + 4)	*	1	+ 8 * 1 =	32	
	EB	8	*	1	=	8*	
	WB	—				—	
PM	NB	23	*	1	=	23	A 66
	SB	(11 + 13)	*	1	+ 26 * 1 =	40*	
	EB	26	*	1	=	26*	
	WB	—				—	

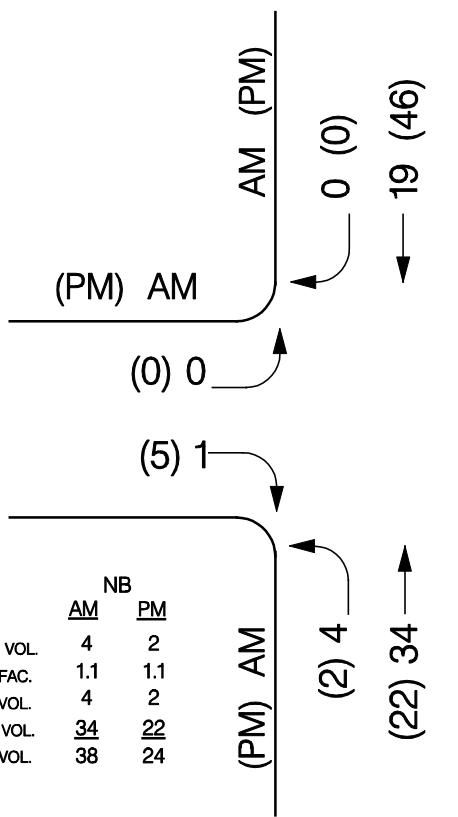
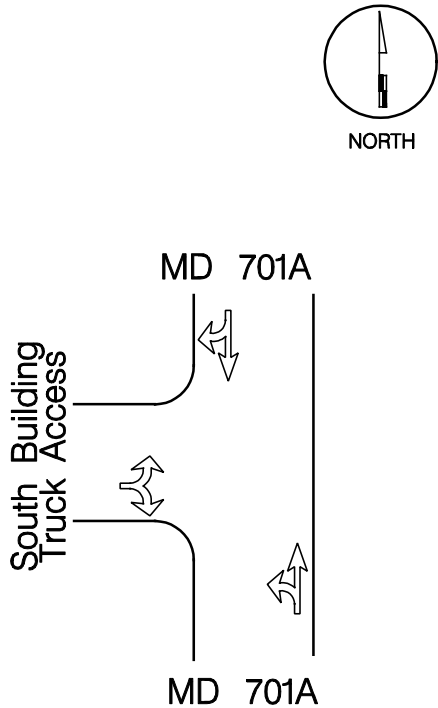
CRITICAL LANE ANALYSIS

Prepared By: B. SCHMID Condition: FUTURE

TRAFFIC VOLUMES



LANE CONFIGURATION



	NB	
	AM	PM
LEFT VOL.	4	2
ADJ. FAC.	1.1	1.1
ADJ. VOL.	4	2
SHD. VOL.	<u>34</u>	<u>22</u>
TOT. VOL.	38	24

	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =						CRITICAL LANE VOLUME	LEVEL OF SERVICE
AM	NB	38	*	1	=		38*	A 39
	SB	19	*	1	+	4 * 1 =	23	
	EB	1	*	1	=		1*	
	WB				—		—	
PM	NB	24	*	1	=		24	A 53
	SB	46	*	1	+	2 * 1 =	48*	
	EB	5	*	1	=		5*	
	WB				—		—	

CRITICAL LANE ANALYSIS

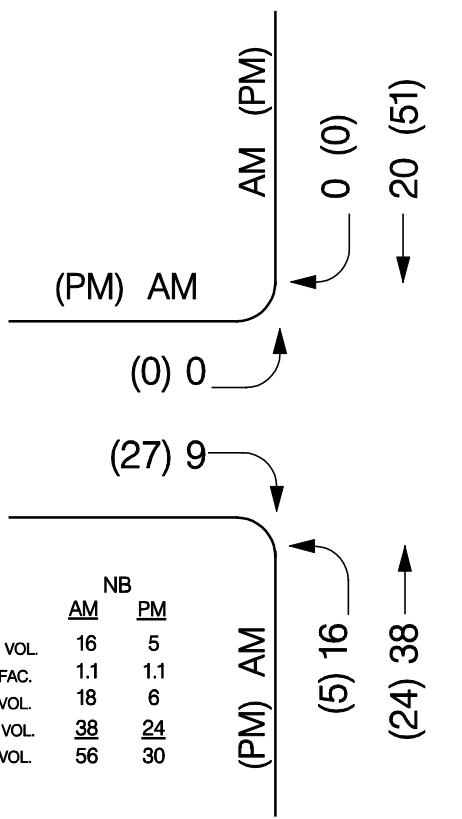
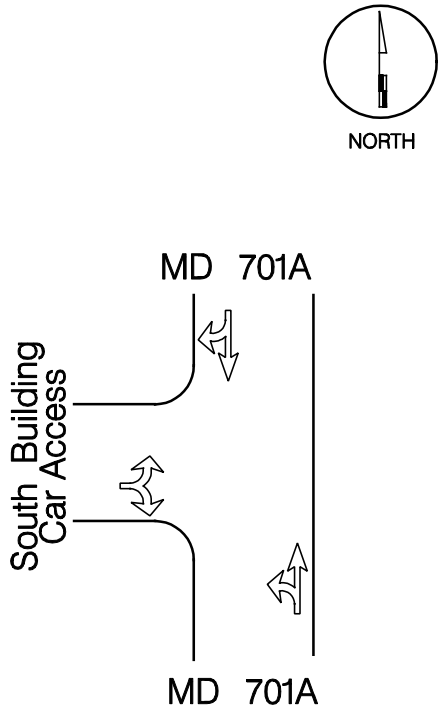
Prepared By: B. SCHMID Condition: FUTURE

TRAFFIC CONCEPTS, Inc.

TRAFFIC VOLUMES



LANE CONFIGURATION



	TOTAL VOLUME * LUF + OPPOSING LEFTS * LUF =				CRITICAL LANE VOLUME	LEVEL OF SERVICE	
AM	NB	56	*	1	=	56*	A 65
	SB	20	*	1	+ 16 * 1 =	36	
	EB	9	*	1	=	9*	
	WB				—	—	
PM	NB	30	*	1	=	30	A 83
	SB	51	*	1	+ 5 * 1 =	56*	
	EB	27	*	1	=	27*	
	WB				—	—	

CRITICAL LANE ANALYSIS

Prepared By: B. SCHMID Condition: FUTURE

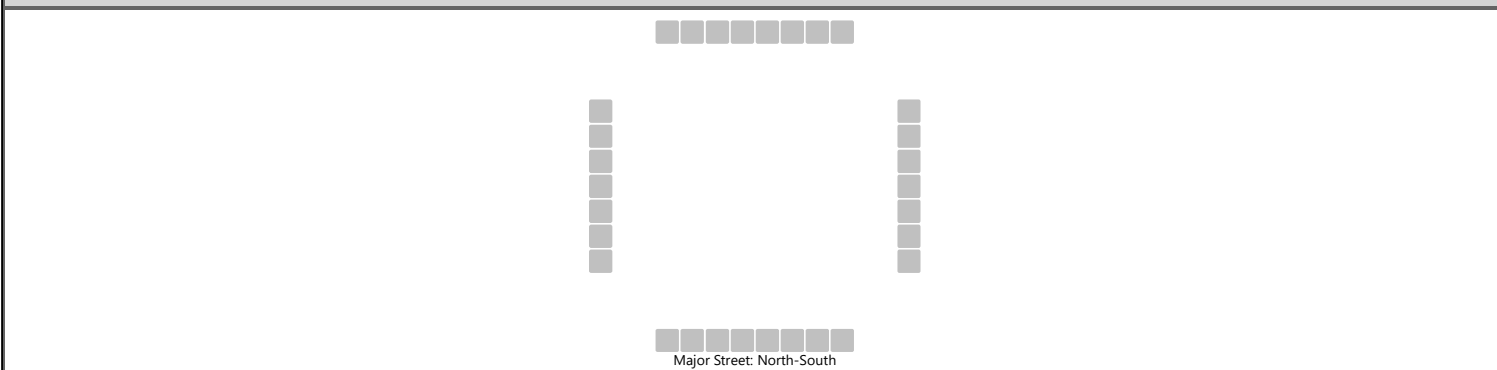


APPENDIX II
HCM
CALCULATIONS

HCS Two-Way Stop-Control Report

General Information				Site Information			
Analyst	B. SCHMID			Intersection	ROUTE 301 AND MD 313		
Agency/Co.	TRAFFIC CONCEPTS, INC.			Jurisdiction	HARFORD		
Date Performed	1/10/2023			East/West Street	MD 313		
Analysis Year	2023			North/South Street	ROUTE 301		
Time Analyzed	EXISTING AM			Peak Hour Factor	0.92		
Intersection Orientation	North-South			Analysis Time Period (hrs)	0.25		
Project Description	3906						

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	1	0	1	2	1	0	1	2	1
Configuration				R				R		L	T	R		L	T	R
Volume (veh/h)				105				41	0	77	287	33	0	3	301	29
Percent Heavy Vehicles (%)				3				3	3	3			3	3		
Proportion Time Blocked																
Percent Grade (%)	0				0											
Right Turn Channelized	No				No				No				No			
Median Type Storage	Undivided															

Critical and Follow-up Headways

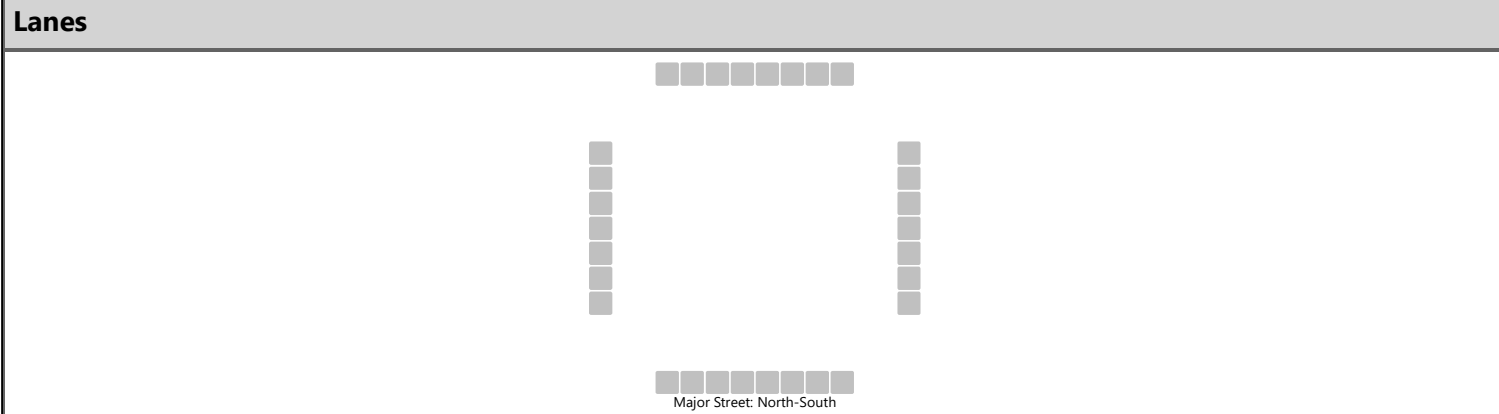
Base Critical Headway (sec)				6.9				6.9				4.1				4.1
Critical Headway (sec)				6.96				6.96				4.16				4.16
Base Follow-Up Headway (sec)				3.3				3.3				2.2				2.2
Follow-Up Headway (sec)				3.33				3.33				2.23				2.23

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				114				45				84				3
Capacity, c (veh/h)				849				859				1189				1201
v/c Ratio				0.13				0.05				0.07				0.00
95% Queue Length, Q ₉₅ (veh)				0.5				0.2				0.2				0.0
Control Delay (s/veh)				9.9				9.4				8.3				8.0
Level of Service (LOS)				A				A				A				A
Approach Delay (s/veh)	9.9				9.4				1.6				0.1			
Approach LOS	A				A				A				A			

HCS Two-Way Stop-Control Report

General Information				Site Information			
Analyst	B. SCHMID			Intersection	ROUTE 301 AND MD 313		
Agency/Co.	TRAFFIC CONCEPTS, INC.			Jurisdiction	HARFORD		
Date Performed	1/10/2023			East/West Street	MD 313		
Analysis Year	2023			North/South Street	ROUTE 301		
Time Analyzed	EXISTING PM			Peak Hour Factor	0.92		
Intersection Orientation	North-South			Analysis Time Period (hrs)	0.25		
Project Description	3906						



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	1	0	1	2	1	0	1	2	1
Configuration				R				R		L	T	R		L	T	R
Volume (veh/h)				124				39	0	80	381	41	0	9	371	41
Percent Heavy Vehicles (%)				3				3	3	3			3	3		
Proportion Time Blocked																
Percent Grade (%)	0				0											
Right Turn Channelized	No				No				No				No			
Median Type Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)				6.9				6.9					4.1				4.1		
Critical Headway (sec)				6.96				6.96					4.16				4.16		
Base Follow-Up Headway (sec)				3.3				3.3					2.2				2.2		
Follow-Up Headway (sec)				3.33				3.33					2.23				2.23		

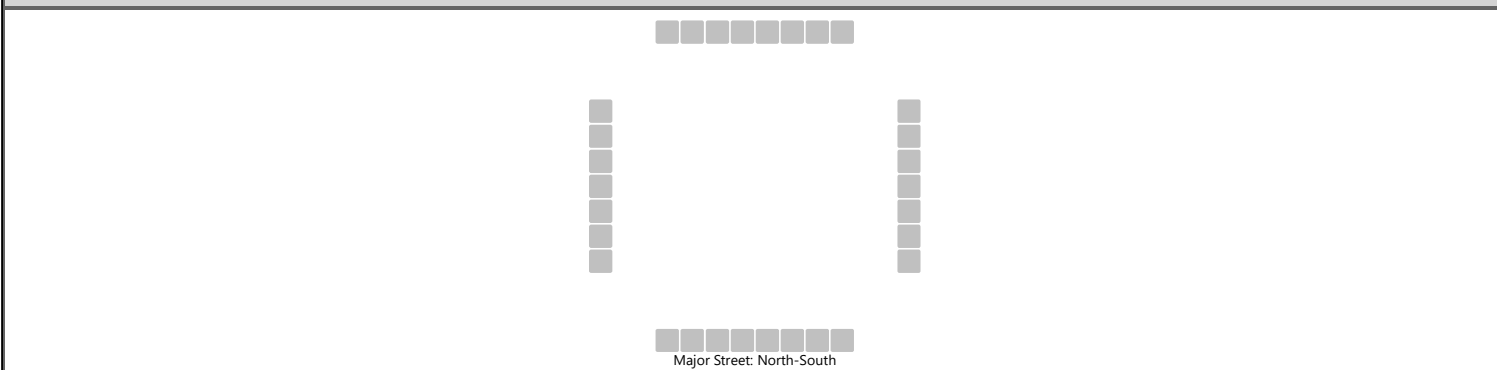
Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				135				42					87				10		
Capacity, c (veh/h)				802				796					1102				1092		
v/c Ratio				0.17				0.05					0.08				0.01		
95% Queue Length, Q ₉₅ (veh)				0.6				0.2					0.3				0.0		
Control Delay (s/veh)				10.4				9.8					8.5				8.3		
Level of Service (LOS)				B				A					A				A		
Approach Delay (s/veh)	10.4				9.8				1.4				0.2						
Approach LOS	B				A				A				A						

HCS Two-Way Stop-Control Report

General Information				Site Information			
Analyst	B. SCHMID			Intersection	ROUTE 301 AND MD 313		
Agency/Co.	TRAFFIC CONCEPTS, INC.			Jurisdiction	HARFORD		
Date Performed	1/10/2023			East/West Street	MD 313		
Analysis Year	2023			North/South Street	ROUTE 301		
Time Analyzed	EXISTING AM			Peak Hour Factor	0.92		
Intersection Orientation	North-South			Analysis Time Period (hrs)	0.25		
Project Description	3906						

Lanes



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	1	0	1	2	1	0	1	2	1
Configuration				R				R		L	T	R		L	T	R
Volume (veh/h)				109				41	0	80	298	33	0	3	313	29
Percent Heavy Vehicles (%)				3				3	3	3			3	3		
Proportion Time Blocked																
Percent Grade (%)	0				0											
Right Turn Channelized	No				No				No				No			
Median Type Storage	Undivided															

Critical and Follow-up Headways

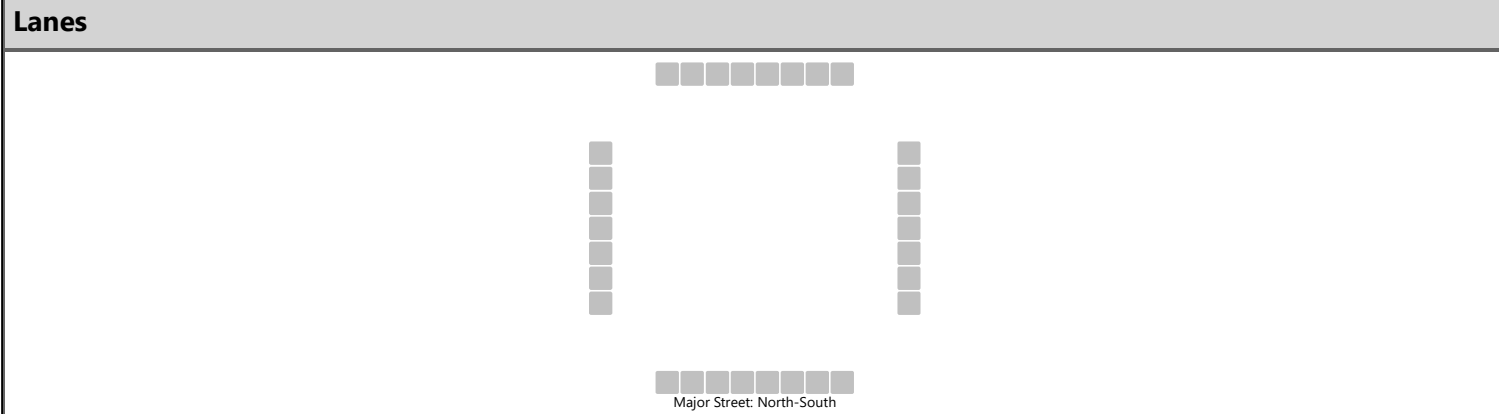
Base Critical Headway (sec)				6.9				6.9				4.1				4.1
Critical Headway (sec)				6.96				6.96				4.16				4.16
Base Follow-Up Headway (sec)				3.3				3.3				2.2				2.2
Follow-Up Headway (sec)				3.33				3.33				2.23				2.23

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				118				45				87				3
Capacity, c (veh/h)				841				851				1176				1188
v/c Ratio				0.14				0.05				0.07				0.00
95% Queue Length, Q ₉₅ (veh)				0.5				0.2				0.2				0.0
Control Delay (s/veh)				10.0				9.5				8.3				8.0
Level of Service (LOS)				A				A				A				A
Approach Delay (s/veh)	10.0				9.5				1.6				0.1			
Approach LOS	A				A				A				A			

HCS Two-Way Stop-Control Report

General Information				Site Information			
Analyst	B. SCHMID			Intersection	ROUTE 301 AND MD 313		
Agency/Co.	TRAFFIC CONCEPTS, INC.			Jurisdiction	HARFORD		
Date Performed	1/10/2023			East/West Street	MD 313		
Analysis Year	2023			North/South Street	ROUTE 301		
Time Analyzed	BACKGROUND PM			Peak Hour Factor	0.92		
Intersection Orientation	North-South			Analysis Time Period (hrs)	0.25		
Project Description	3906						



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Movement																
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	1	0	1	2	1	0	1	2	1
Configuration				R				R		L	T	R		L	T	R
Volume (veh/h)				129				39	0	83	396	41	0	9	386	41
Percent Heavy Vehicles (%)				3				3	3	3			3	3		
Proportion Time Blocked																
Percent Grade (%)	0				0											
Right Turn Channelized	No				No				No				No			
Median Type Storage	Undivided															

Critical and Follow-up Headways

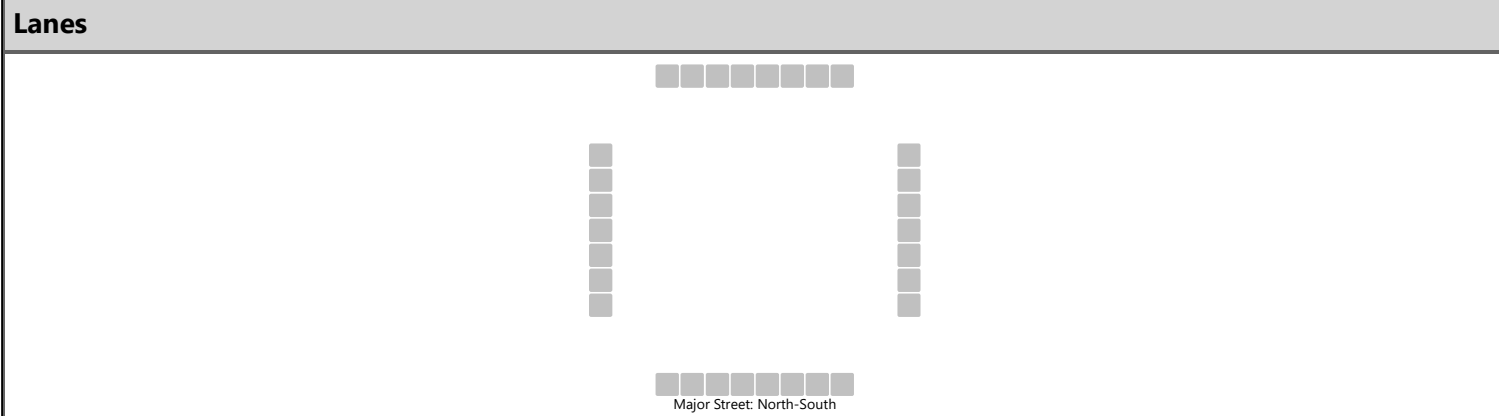
Base Critical Headway (sec)				6.9				6.9				4.1				4.1
Critical Headway (sec)				6.96				6.96				4.16				4.16
Base Follow-Up Headway (sec)				3.3				3.3				2.2				2.2
Follow-Up Headway (sec)				3.33				3.33				2.23				2.23

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				140				42				90				10
Capacity, c (veh/h)				793				786				1086				1076
v/c Ratio				0.18				0.05				0.08				0.01
95% Queue Length, Q ₉₅ (veh)				0.6				0.2				0.3				0.0
Control Delay (s/veh)				10.5				9.8				8.6				8.4
Level of Service (LOS)				B				A				A				A
Approach Delay (s/veh)	10.5				9.8				1.4				0.2			
Approach LOS	B				A				A				A			

HCS Two-Way Stop-Control Report

General Information				Site Information			
Analyst	B. SCHMID			Intersection	ROUTE 301 AND MD 313		
Agency/Co.	TRAFFIC CONCEPTS, INC.			Jurisdiction	HARFORD		
Date Performed	1/10/2023			East/West Street	MD 313		
Analysis Year	2025			North/South Street	ROUTE 301		
Time Analyzed	FUTURE AM			Peak Hour Factor	0.92		
Intersection Orientation	North-South			Analysis Time Period (hrs)	0.25		
Project Description	3906						



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	1	0	1	2	1	0	1	2	1
Configuration				R				R		L	T	R		L	T	R
Volume (veh/h)				116				41	0	82	305	33	0	3	336	29
Percent Heavy Vehicles (%)				3				3	3	3			3	3		
Proportion Time Blocked																
Percent Grade (%)	0				0											
Right Turn Channelized	No				No				No				No			
Median Type Storage	Undivided															

Critical and Follow-up Headways

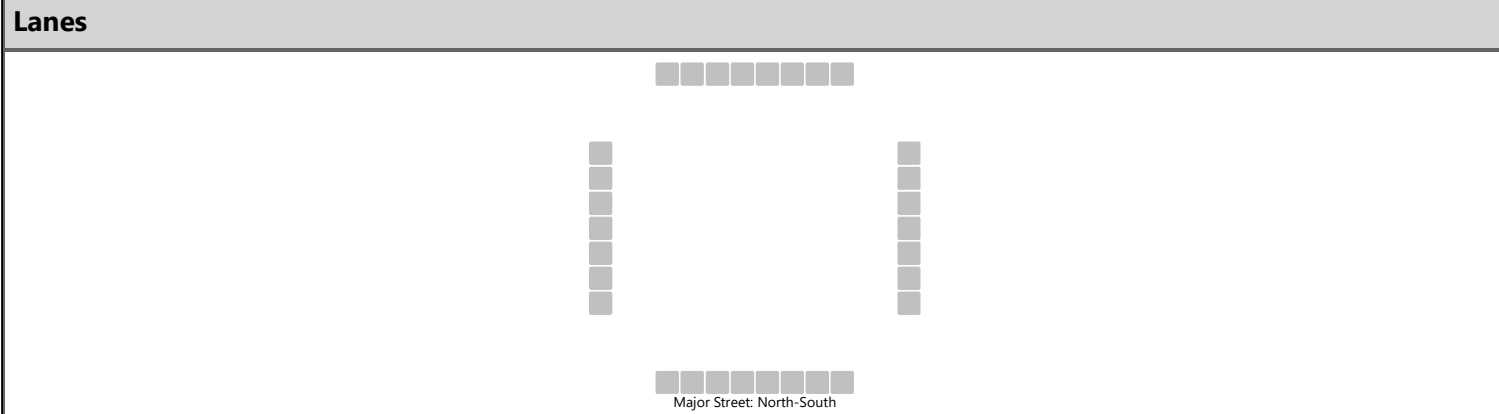
Base Critical Headway (sec)				6.9				6.9		4.1				4.1		
Critical Headway (sec)				6.96				6.96		4.16				4.16		
Base Follow-Up Headway (sec)				3.3				3.3		2.2				2.2		
Follow-Up Headway (sec)				3.33				3.33		2.23				2.23		

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				126				45		89				3		
Capacity, c (veh/h)				825				846		1151				1181		
v/c Ratio				0.15				0.05		0.08				0.00		
95% Queue Length, Q ₉₅ (veh)				0.5				0.2		0.3				0.0		
Control Delay (s/veh)				10.1				9.5		8.4				8.1		
Level of Service (LOS)				B				A		A				A		
Approach Delay (s/veh)	10.1				9.5				1.6				0.1			
Approach LOS	B				A				A				A			

HCS Two-Way Stop-Control Report

General Information				Site Information			
Analyst	B. SCHMID			Intersection	ROUTE 301 AND MD 313		
Agency/Co.	TRAFFIC CONCEPTS, INC.			Jurisdiction	HARFORD		
Date Performed	1/10/2023			East/West Street	MD 313		
Analysis Year	2025			North/South Street	ROUTE 301		
Time Analyzed	FUTURE PM			Peak Hour Factor	0.92		
Intersection Orientation	North-South			Analysis Time Period (hrs)	0.25		
Project Description	3906						



Vehicle Volumes and Adjustments

Approach	Eastbound				Westbound				Northbound				Southbound			
	U	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R
Priority		10	11	12		7	8	9	1U	1	2	3	4U	4	5	6
Number of Lanes		0	0	1		0	0	1	0	1	2	1	0	1	2	1
Configuration				R				R		L	T	R		L	T	R
Volume (veh/h)				131				39	0	89	419	41	0	9	394	41
Percent Heavy Vehicles (%)				3				3	3	3			3	3		
Proportion Time Blocked																
Percent Grade (%)	0				0											
Right Turn Channelized	No				No				No				No			
Median Type Storage	Undivided															

Critical and Follow-up Headways

Base Critical Headway (sec)				6.9				6.9					4.1				4.1		
Critical Headway (sec)				6.96				6.96					4.16				4.16		
Base Follow-Up Headway (sec)				3.3				3.3					2.2				2.2		
Follow-Up Headway (sec)				3.33				3.33					2.23				2.23		

Delay, Queue Length, and Level of Service

Flow Rate, v (veh/h)				142				42					97				10		
Capacity, c (veh/h)				788				772					1078				1053		
v/c Ratio				0.18				0.05					0.09				0.01		
95% Queue Length, Q ₉₅ (veh)				0.7				0.2					0.3				0.0		
Control Delay (s/veh)				10.6				9.9					8.7				8.4		
Level of Service (LOS)				B				A					A				A		
Approach Delay (s/veh)	10.6				9.9				1.4				0.2						
Approach LOS	B				A				A				A						



**APPENDIX III
SIDRA
CALCULATIONS**

SITE LAYOUT

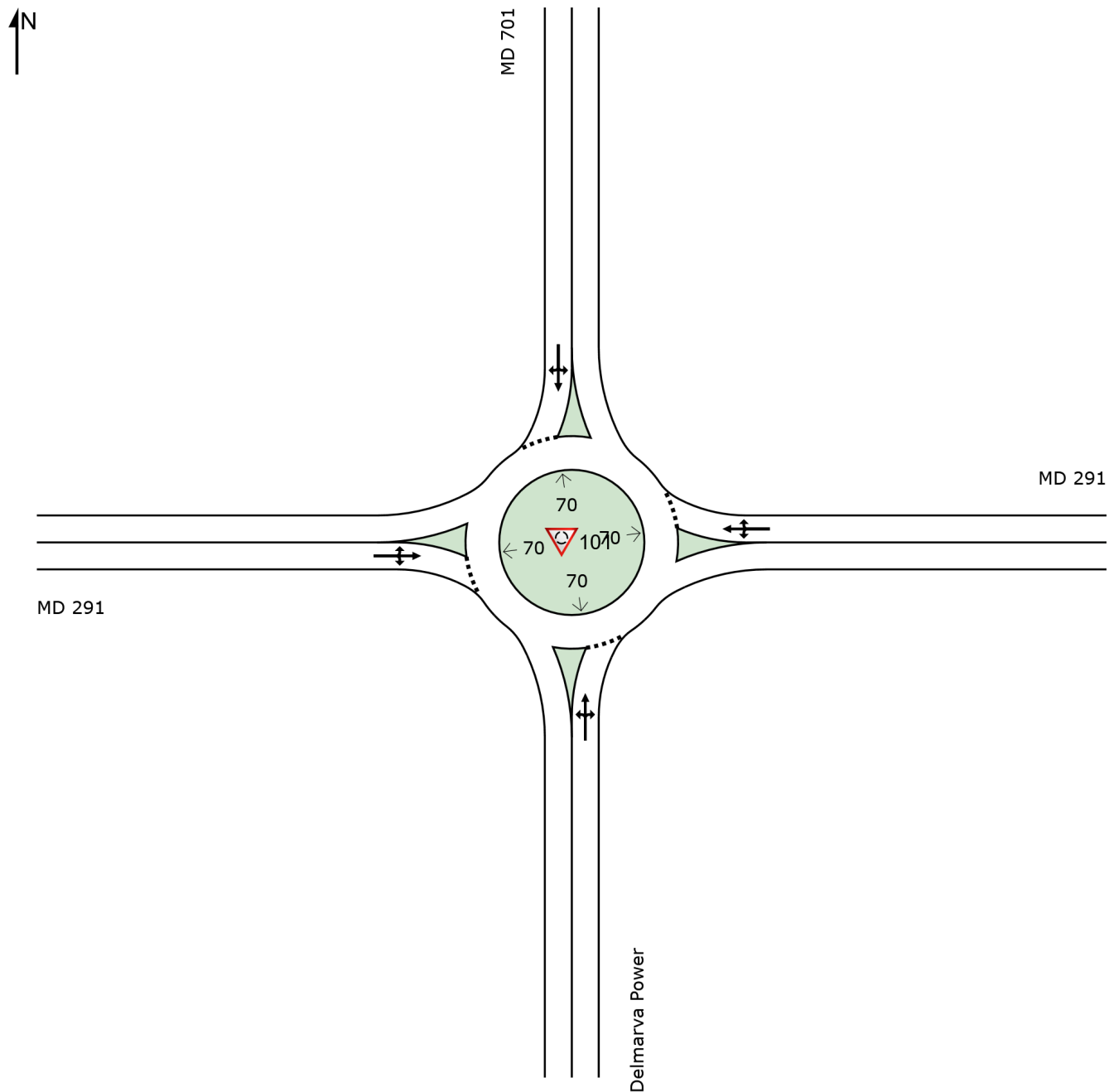
Site: 101 [MD 291 @ MD 701 - FUT AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701 - EX AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Delmarva Power														
3	L2	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.27	0.11	0.27	34.4
8	T1	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.27	0.11	0.27	34.5
18	R2	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.27	0.11	0.27	33.7
Approach		3	3.0	3	3.0	0.003	3.2	LOS A	0.0	0.3	0.27	0.11	0.27	34.2
East: MD 291														
1	L2	1	3.0	1	3.0	0.101	3.6	LOS A	0.5	11.6	0.14	0.05	0.14	35.0
6	T1	107	3.0	113	3.0	0.101	3.6	LOS A	0.5	11.6	0.14	0.05	0.14	35.1
16	R2	16	3.0	17	3.0	0.101	3.6	LOS A	0.5	11.6	0.14	0.05	0.14	34.2
Approach		124	3.0	131	3.0	0.101	3.6	LOS A	0.5	11.6	0.14	0.05	0.14	35.0
North: MD 701														
7	L2	16	3.0	17	3.0	0.048	3.4	LOS A	0.2	5.1	0.25	0.12	0.25	34.4
4	T1	1	3.0	1	3.0	0.048	3.4	LOS A	0.2	5.1	0.25	0.12	0.25	34.5
14	R2	37	3.0	39	3.0	0.048	3.4	LOS A	0.2	5.1	0.25	0.12	0.25	33.6
Approach		54	3.0	57	3.0	0.048	3.4	LOS A	0.2	5.1	0.25	0.12	0.25	33.9
West: MD 291														
5	L2	34	3.0	36	3.0	0.099	3.5	LOS A	0.4	11.3	0.09	0.02	0.09	34.3
2	T1	88	3.0	93	3.0	0.099	3.5	LOS A	0.4	11.3	0.09	0.02	0.09	34.4
12	R2	1	3.0	1	3.0	0.099	3.5	LOS A	0.4	11.3	0.09	0.02	0.09	33.6
Approach		123	3.0	129	3.0	0.099	3.5	LOS A	0.4	11.3	0.09	0.02	0.09	34.4
All Vehicles		304	3.0	320	3.0	0.101	3.5	LOS A	0.5	11.6	0.14	0.05	0.14	34.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701.sip9

MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701 - EX AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Delmarva Power														
3	L2	1	3.0	1	3.0	0.003	3.6	LOS A	0.0	0.3	0.38	0.19	0.38	34.2
8	T1	1	3.0	1	3.0	0.003	3.6	LOS A	0.0	0.3	0.38	0.19	0.38	34.3
18	R2	1	3.0	1	3.0	0.003	3.6	LOS A	0.0	0.3	0.38	0.19	0.38	33.5
Approach		3	3.0	3	3.0	0.003	3.6	LOS A	0.0	0.3	0.38	0.19	0.38	34.0
East: MD 291														
1	L2	1	3.0	1	3.0	0.117	3.9	LOS A	0.5	13.5	0.21	0.09	0.21	34.8
6	T1	113	3.0	124	3.0	0.117	3.9	LOS A	0.5	13.5	0.21	0.09	0.21	34.9
16	R2	18	3.0	20	3.0	0.117	3.9	LOS A	0.5	13.5	0.21	0.09	0.21	34.1
Approach		132	3.0	145	3.0	0.117	3.9	LOS A	0.5	13.5	0.21	0.09	0.21	34.8
North: MD 701														
7	L2	40	3.0	44	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.13	0.27	33.5
4	T1	1	3.0	1	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.13	0.27	33.6
14	R2	24	3.0	26	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.13	0.27	32.8
Approach		65	3.0	71	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.13	0.27	33.3
West: MD 291														
5	L2	68	3.0	75	3.0	0.181	4.3	LOS A	0.9	22.5	0.17	0.06	0.17	33.8
2	T1	141	3.0	155	3.0	0.181	4.3	LOS A	0.9	22.5	0.17	0.06	0.17	33.9
12	R2	1	3.0	1	3.0	0.181	4.3	LOS A	0.9	22.5	0.17	0.06	0.17	33.1
Approach		210	3.0	231	3.0	0.181	4.3	LOS A	0.9	22.5	0.17	0.06	0.17	33.9
All Vehicles		410	3.0	451	3.0	0.181	4.1	LOS A	0.9	22.5	0.20	0.09	0.20	34.1

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701.sip9

MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701 - BACK AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Delmarva Power														
3	L2	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.28	0.11	0.28	34.4
8	T1	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.28	0.11	0.28	34.5
18	R2	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.28	0.11	0.28	33.7
Approach		3	3.0	3	3.0	0.003	3.2	LOS A	0.0	0.3	0.28	0.11	0.28	34.2
East: MD 291														
1	L2	1	3.0	1	3.0	0.105	3.6	LOS A	0.5	12.0	0.14	0.05	0.14	34.9
6	T1	111	3.0	117	3.0	0.105	3.6	LOS A	0.5	12.0	0.14	0.05	0.14	35.1
16	R2	16	3.0	17	3.0	0.105	3.6	LOS A	0.5	12.0	0.14	0.05	0.14	34.2
Approach		128	3.0	135	3.0	0.105	3.6	LOS A	0.5	12.0	0.14	0.05	0.14	35.0
North: MD 701														
7	L2	16	3.0	17	3.0	0.048	3.4	LOS A	0.2	5.1	0.26	0.12	0.26	34.3
4	T1	1	3.0	1	3.0	0.048	3.4	LOS A	0.2	5.1	0.26	0.12	0.26	34.5
14	R2	37	3.0	39	3.0	0.048	3.4	LOS A	0.2	5.1	0.26	0.12	0.26	33.6
Approach		54	3.0	57	3.0	0.048	3.4	LOS A	0.2	5.1	0.26	0.12	0.26	33.9
West: MD 291														
5	L2	34	3.0	36	3.0	0.102	3.6	LOS A	0.5	11.7	0.09	0.02	0.09	34.3
2	T1	92	3.0	97	3.0	0.102	3.6	LOS A	0.5	11.7	0.09	0.02	0.09	34.5
12	R2	1	3.0	1	3.0	0.102	3.6	LOS A	0.5	11.7	0.09	0.02	0.09	33.6
Approach		127	3.0	134	3.0	0.102	3.6	LOS A	0.5	11.7	0.09	0.02	0.09	34.4
All Vehicles		312	3.0	328	3.0	0.105	3.6	LOS A	0.5	12.0	0.14	0.05	0.14	34.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701.sip9

MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701 - BACK PM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Delmarva Power														
3	L2	1	3.0	1	3.0	0.003	3.6	LOS A	0.0	0.3	0.39	0.19	0.39	34.2
8	T1	1	3.0	1	3.0	0.003	3.6	LOS A	0.0	0.3	0.39	0.19	0.39	34.3
18	R2	1	3.0	1	3.0	0.003	3.6	LOS A	0.0	0.3	0.39	0.19	0.39	33.4
Approach		3	3.0	3	3.0	0.003	3.6	LOS A	0.0	0.3	0.39	0.19	0.39	33.9
East: MD 291														
1	L2	1	3.0	1	3.0	0.121	3.9	LOS A	0.5	14.0	0.22	0.09	0.22	34.8
6	T1	117	3.0	129	3.0	0.121	3.9	LOS A	0.5	14.0	0.22	0.09	0.22	34.9
16	R2	18	3.0	20	3.0	0.121	3.9	LOS A	0.5	14.0	0.22	0.09	0.22	34.1
Approach		136	3.0	149	3.0	0.121	3.9	LOS A	0.5	14.0	0.22	0.09	0.22	34.8
North: MD 701														
7	L2	40	3.0	44	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.14	0.27	33.5
4	T1	1	3.0	1	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.14	0.27	33.6
14	R2	24	3.0	26	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.14	0.27	32.8
Approach		65	3.0	71	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.14	0.27	33.3
West: MD 291														
5	L2	68	3.0	75	3.0	0.186	4.4	LOS A	0.9	23.3	0.17	0.06	0.17	33.8
2	T1	147	3.0	162	3.0	0.186	4.4	LOS A	0.9	23.3	0.17	0.06	0.17	33.9
12	R2	1	3.0	1	3.0	0.186	4.4	LOS A	0.9	23.3	0.17	0.06	0.17	33.1
Approach		216	3.0	237	3.0	0.186	4.4	LOS A	0.9	23.3	0.17	0.06	0.17	33.9
All Vehicles		420	3.0	462	3.0	0.186	4.1	LOS A	0.9	23.3	0.20	0.09	0.20	34.1

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701.sip9

MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701 - FUT AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Delmarva Power														
3	L2	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.28	0.11	0.28	34.4
8	T1	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.28	0.11	0.28	34.5
18	R2	1	3.0	1	3.0	0.003	3.2	LOS A	0.0	0.3	0.28	0.11	0.28	33.7
Approach		3	3.0	3	3.0	0.003	3.2	LOS A	0.0	0.3	0.28	0.11	0.28	34.2
East: MD 291														
1	L2	1	3.0	1	3.0	0.110	3.7	LOS A	0.5	12.8	0.14	0.05	0.14	34.9
6	T1	118	3.0	124	3.0	0.110	3.7	LOS A	0.5	12.8	0.14	0.05	0.14	35.0
16	R2	16	3.0	17	3.0	0.110	3.7	LOS A	0.5	12.8	0.14	0.05	0.14	34.2
Approach		135	3.0	142	3.0	0.110	3.7	LOS A	0.5	12.8	0.14	0.05	0.14	34.9
North: MD 701														
7	L2	16	3.0	17	3.0	0.069	3.6	LOS A	0.3	7.5	0.27	0.14	0.27	34.5
4	T1	1	3.0	1	3.0	0.069	3.6	LOS A	0.3	7.5	0.27	0.14	0.27	34.6
14	R2	60	3.0	63	3.0	0.069	3.6	LOS A	0.3	7.5	0.27	0.14	0.27	33.7
Approach		77	3.0	81	3.0	0.069	3.6	LOS A	0.3	7.5	0.27	0.14	0.27	33.9
West: MD 291														
5	L2	35	3.0	37	3.0	0.104	3.6	LOS A	0.5	12.0	0.09	0.02	0.09	34.3
2	T1	94	3.0	99	3.0	0.104	3.6	LOS A	0.5	12.0	0.09	0.02	0.09	34.4
12	R2	1	3.0	1	3.0	0.104	3.6	LOS A	0.5	12.0	0.09	0.02	0.09	33.6
Approach		130	3.0	137	3.0	0.104	3.6	LOS A	0.5	12.0	0.09	0.02	0.09	34.4
All Vehicles		345	3.0	363	3.0	0.110	3.6	LOS A	0.5	12.8	0.15	0.06	0.15	34.5

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701.sip9

MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701 - FUT PM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Delmarva Power														
3	L2	1	3.0	1	3.0	0.003	3.7	LOS A	0.0	0.3	0.40	0.20	0.40	34.1
8	T1	1	3.0	1	3.0	0.003	3.7	LOS A	0.0	0.3	0.40	0.20	0.40	34.2
18	R2	1	3.0	1	3.0	0.003	3.7	LOS A	0.0	0.3	0.40	0.20	0.40	33.4
Approach		3	3.0	3	3.0	0.003	3.7	LOS A	0.0	0.3	0.40	0.20	0.40	33.9
East: MD 291														
1	L2	1	3.0	1	3.0	0.121	3.9	LOS A	0.5	13.9	0.22	0.10	0.22	34.8
6	T1	118	3.0	130	3.0	0.121	3.9	LOS A	0.5	13.9	0.22	0.10	0.22	34.9
16	R2	16	3.0	18	3.0	0.121	3.9	LOS A	0.5	13.9	0.22	0.10	0.22	34.1
Approach		135	3.0	148	3.0	0.121	3.9	LOS A	0.5	13.9	0.22	0.10	0.22	34.8
North: MD 701														
7	L2	40	3.0	44	3.0	0.069	3.7	LOS A	0.3	7.5	0.28	0.14	0.28	33.6
4	T1	1	3.0	1	3.0	0.069	3.7	LOS A	0.3	7.5	0.28	0.14	0.28	33.7
14	R2	32	3.0	35	3.0	0.069	3.7	LOS A	0.3	7.5	0.28	0.14	0.28	32.9
Approach		73	3.0	80	3.0	0.069	3.7	LOS A	0.3	7.5	0.28	0.14	0.28	33.3
West: MD 291														
5	L2	73	3.0	80	3.0	0.195	4.5	LOS A	1.0	24.7	0.17	0.07	0.17	33.7
2	T1	153	3.0	168	3.0	0.195	4.5	LOS A	1.0	24.7	0.17	0.07	0.17	33.9
12	R2	1	3.0	1	3.0	0.195	4.5	LOS A	1.0	24.7	0.17	0.07	0.17	33.1
Approach		227	3.0	249	3.0	0.195	4.5	LOS A	1.0	24.7	0.17	0.07	0.17	33.8
All Vehicles		438	3.0	481	3.0	0.195	4.2	LOS A	1.0	24.7	0.21	0.09	0.21	34.0

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701.sip9

SITE LAYOUT

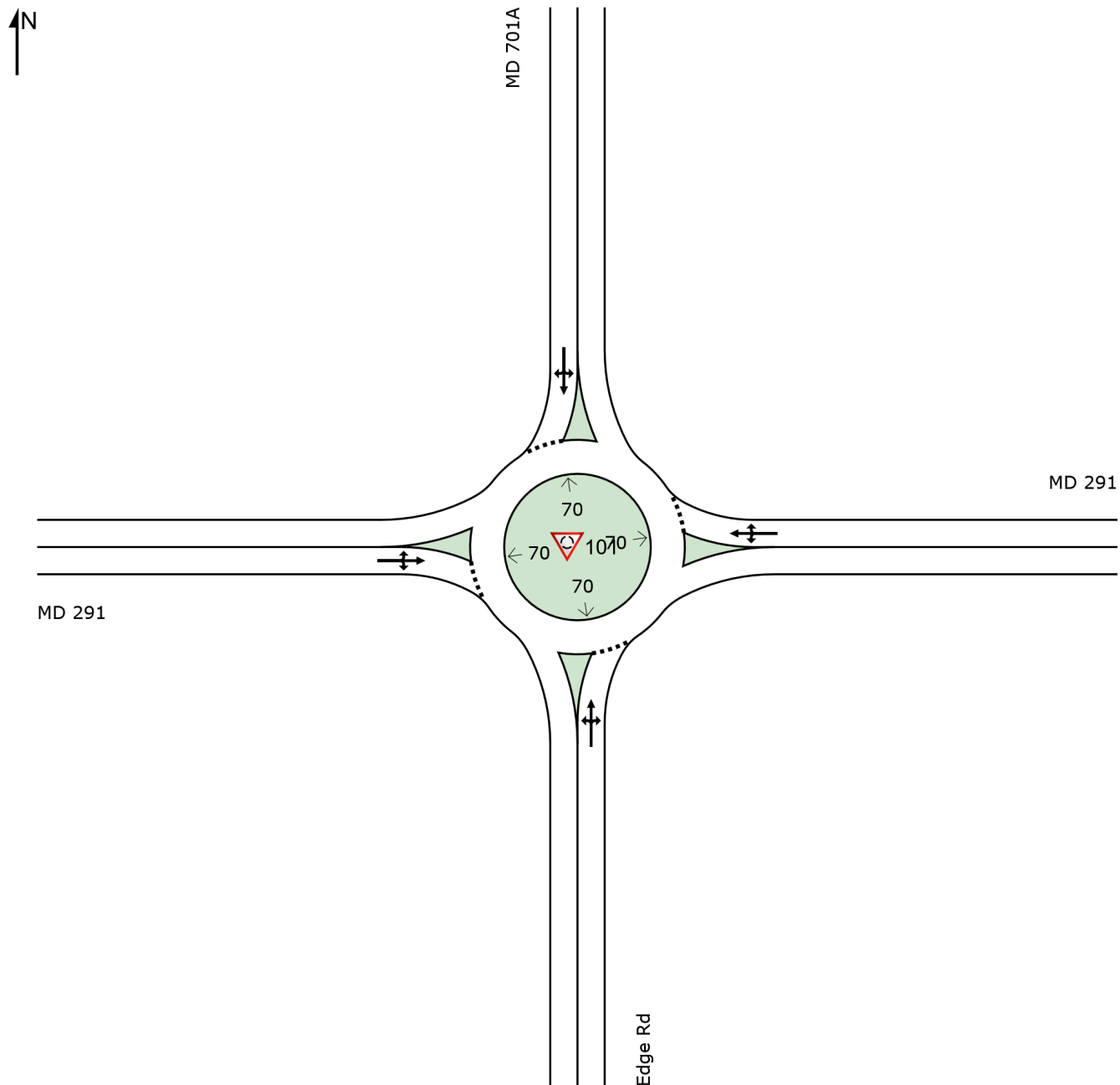
 Site: 101 [MD 291 @ MD 701A - FUT AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Layout pictures are schematic functional drawings reflecting input data. They are not design drawings.



MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701A - EX AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Edge Rd														
3	L2	2	3.0	2	3.0	0.008	3.2	LOS A	0.0	0.8	0.27	0.12	0.27	34.6
8	T1	3	3.0	3	3.0	0.008	3.2	LOS A	0.0	0.8	0.27	0.12	0.27	34.7
18	R2	3	3.0	3	3.0	0.008	3.2	LOS A	0.0	0.8	0.27	0.12	0.27	33.9
Approach		8	3.0	9	3.0	0.008	3.2	LOS A	0.0	0.8	0.27	0.12	0.27	34.4
East: MD 291														
1	L2	5	3.0	5	3.0	0.119	3.7	LOS A	0.5	14.0	0.09	0.02	0.09	34.9
6	T1	110	3.0	120	3.0	0.119	3.7	LOS A	0.5	14.0	0.09	0.02	0.09	35.0
16	R2	29	3.0	32	3.0	0.119	3.7	LOS A	0.5	14.0	0.09	0.02	0.09	34.1
Approach		144	3.0	157	3.0	0.119	3.7	LOS A	0.5	14.0	0.09	0.02	0.09	34.8
North: MD 701A														
7	L2	23	3.0	25	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.13	0.27	34.1
4	T1	1	3.0	1	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.13	0.27	34.3
14	R2	42	3.0	46	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.13	0.27	33.4
Approach		66	3.0	72	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.13	0.27	33.7
West: MD 291														
5	L2	12	3.0	13	3.0	0.092	3.5	LOS A	0.4	10.5	0.13	0.04	0.13	34.8
2	T1	97	3.0	105	3.0	0.092	3.5	LOS A	0.4	10.5	0.13	0.04	0.13	34.9
12	R2	1	3.0	1	3.0	0.092	3.5	LOS A	0.4	10.5	0.13	0.04	0.13	34.0
Approach		110	3.0	120	3.0	0.092	3.5	LOS A	0.4	10.5	0.13	0.04	0.13	34.9
All Vehicles		328	3.0	357	3.0	0.119	3.6	LOS A	0.5	14.0	0.14	0.05	0.14	34.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701A.sip9

MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701A - EX PM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Edge Rd														
3	L2	3	3.0	3	3.0	0.006	3.6	LOS A	0.0	0.6	0.37	0.19	0.37	33.6
8	T1	1	3.0	1	3.0	0.006	3.6	LOS A	0.0	0.6	0.37	0.19	0.37	33.7
18	R2	1	3.0	1	3.0	0.006	3.6	LOS A	0.0	0.6	0.37	0.19	0.37	32.9
Approach		5	3.0	6	3.0	0.006	3.6	LOS A	0.0	0.6	0.37	0.19	0.37	33.4
East: MD 291														
1	L2	1	3.0	1	3.0	0.120	3.7	LOS A	0.6	14.1	0.10	0.03	0.10	34.9
6	T1	92	3.0	106	3.0	0.120	3.7	LOS A	0.6	14.1	0.10	0.03	0.10	35.0
16	R2	44	3.0	51	3.0	0.120	3.7	LOS A	0.6	14.1	0.10	0.03	0.10	34.2
Approach		137	3.0	157	3.0	0.120	3.7	LOS A	0.6	14.1	0.10	0.03	0.10	34.7
North: MD 701A														
7	L2	51	3.0	59	3.0	0.094	3.8	LOS A	0.4	10.5	0.26	0.13	0.26	33.6
4	T1	1	3.0	1	3.0	0.094	3.8	LOS A	0.4	10.5	0.26	0.13	0.26	33.7
14	R2	46	3.0	53	3.0	0.094	3.8	LOS A	0.4	10.5	0.26	0.13	0.26	32.9
Approach		98	3.0	113	3.0	0.094	3.8	LOS A	0.4	10.5	0.26	0.13	0.26	33.3
West: MD 291														
5	L2	15	3.0	17	3.0	0.161	4.2	LOS A	0.8	19.5	0.20	0.08	0.20	34.4
2	T1	159	3.0	183	3.0	0.161	4.2	LOS A	0.8	19.5	0.20	0.08	0.20	34.6
12	R2	2	3.0	2	3.0	0.161	4.2	LOS A	0.8	19.5	0.20	0.08	0.20	33.7
Approach		176	3.0	202	3.0	0.161	4.2	LOS A	0.8	19.5	0.20	0.08	0.20	34.5
All Vehicles		416	3.0	478	3.0	0.161	4.0	LOS A	0.8	19.5	0.18	0.08	0.18	34.3

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701A.sip9

MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701A - BACK AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV] %	[Total veh/h	HV] %				[Veh. veh	Dist] ft				
South: Edge Rd														
3	L2	2	3.0	2	3.0	0.008	3.2	LOS A	0.0	0.8	0.28	0.12	0.28	34.6
8	T1	3	3.0	3	3.0	0.008	3.2	LOS A	0.0	0.8	0.28	0.12	0.28	34.7
18	R2	3	3.0	3	3.0	0.008	3.2	LOS A	0.0	0.8	0.28	0.12	0.28	33.9
Approach		8	3.0	9	3.0	0.008	3.2	LOS A	0.0	0.8	0.28	0.12	0.28	34.4
East: MD 291														
1	L2	5	3.0	5	3.0	0.122	3.7	LOS A	0.6	14.4	0.09	0.02	0.09	34.8
6	T1	114	3.0	124	3.0	0.122	3.7	LOS A	0.6	14.4	0.09	0.02	0.09	35.0
16	R2	29	3.0	32	3.0	0.122	3.7	LOS A	0.6	14.4	0.09	0.02	0.09	34.1
Approach		148	3.0	161	3.0	0.122	3.7	LOS A	0.6	14.4	0.09	0.02	0.09	34.8
North: MD 701A														
7	L2	23	3.0	25	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.14	0.27	34.1
4	T1	1	3.0	1	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.14	0.27	34.3
14	R2	42	3.0	46	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.14	0.27	33.4
Approach		66	3.0	72	3.0	0.061	3.6	LOS A	0.3	6.6	0.27	0.14	0.27	33.7
West: MD 291														
5	L2	12	3.0	13	3.0	0.096	3.5	LOS A	0.4	10.9	0.13	0.04	0.13	34.8
2	T1	101	3.0	110	3.0	0.096	3.5	LOS A	0.4	10.9	0.13	0.04	0.13	34.9
12	R2	1	3.0	1	3.0	0.096	3.5	LOS A	0.4	10.9	0.13	0.04	0.13	34.0
Approach		114	3.0	124	3.0	0.096	3.5	LOS A	0.4	10.9	0.13	0.04	0.13	34.8
All Vehicles		336	3.0	365	3.0	0.122	3.6	LOS A	0.6	14.4	0.14	0.05	0.14	34.6

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701A.sip9

MOVEMENT SUMMARY

Site: 101 [MD 291 @ MD 701A - BACK PM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV %	[Total veh/h	HV %				[Veh. veh	Dist] ft				
South: Edge Rd														
3	L2	3	3.0	3	3.0	0.006	3.6	LOS A	0.0	0.6	0.38	0.20	0.38	33.5
8	T1	1	3.0	1	3.0	0.006	3.6	LOS A	0.0	0.6	0.38	0.20	0.38	33.6
18	R2	1	3.0	1	3.0	0.006	3.6	LOS A	0.0	0.6	0.38	0.20	0.38	32.9
Approach		5	3.0	6	3.0	0.006	3.6	LOS A	0.0	0.6	0.38	0.20	0.38	33.4
East: MD 291														
1	L2	1	3.0	1	3.0	0.124	3.8	LOS A	0.6	14.6	0.10	0.03	0.10	34.9
6	T1	96	3.0	110	3.0	0.124	3.8	LOS A	0.6	14.6	0.10	0.03	0.10	35.0
16	R2	44	3.0	51	3.0	0.124	3.8	LOS A	0.6	14.6	0.10	0.03	0.10	34.2
Approach		141	3.0	162	3.0	0.124	3.8	LOS A	0.6	14.6	0.10	0.03	0.10	34.7
North: MD 701A														
7	L2	51	3.0	59	3.0	0.095	3.8	LOS A	0.4	10.6	0.26	0.13	0.26	33.6
4	T1	1	3.0	1	3.0	0.095	3.8	LOS A	0.4	10.6	0.26	0.13	0.26	33.7
14	R2	46	3.0	53	3.0	0.095	3.8	LOS A	0.4	10.6	0.26	0.13	0.26	32.9
Approach		98	3.0	113	3.0	0.095	3.8	LOS A	0.4	10.6	0.26	0.13	0.26	33.3
West: MD 291														
5	L2	15	3.0	17	3.0	0.166	4.3	LOS A	0.8	20.3	0.20	0.08	0.20	34.4
2	T1	165	3.0	190	3.0	0.166	4.3	LOS A	0.8	20.3	0.20	0.08	0.20	34.5
12	R2	2	3.0	2	3.0	0.166	4.3	LOS A	0.8	20.3	0.20	0.08	0.20	33.7
Approach		182	3.0	209	3.0	0.166	4.3	LOS A	0.8	20.3	0.20	0.08	0.20	34.5
All Vehicles		426	3.0	490	3.0	0.166	4.0	LOS A	0.8	20.3	0.18	0.08	0.18	34.3

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701A.sip9

MOVEMENT SUMMARY

 Site: 101 [MD 291 @ MD 701A - FUT AM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
		[Total veh/h	HV] %	[Total veh/h	HV] %				[Veh. veh	Dist] ft				
South: Edge Rd														
3	L2	2	3.0	2	3.0	0.008	3.3	LOS A	0.0	0.8	0.30	0.13	0.30	34.6
8	T1	3	3.0	3	3.0	0.008	3.3	LOS A	0.0	0.8	0.30	0.13	0.30	34.7
18	R2	3	3.0	3	3.0	0.008	3.3	LOS A	0.0	0.8	0.30	0.13	0.30	33.8
Approach		8	3.0	9	3.0	0.008	3.3	LOS A	0.0	0.8	0.30	0.13	0.30	34.3
East: MD 291														
1	L2	5	3.0	5	3.0	0.148	4.0	LOS A	0.7	17.9	0.12	0.03	0.12	34.7
6	T1	114	3.0	124	3.0	0.148	4.0	LOS A	0.7	17.9	0.12	0.03	0.12	34.8
16	R2	59	3.0	64	3.0	0.148	4.0	LOS A	0.7	17.9	0.12	0.03	0.12	34.0
Approach		178	3.0	193	3.0	0.148	4.0	LOS A	0.7	17.9	0.12	0.03	0.12	34.5
North: MD 701A														
7	L2	34	3.0	37	3.0	0.073	3.7	LOS A	0.3	7.9	0.28	0.14	0.28	33.9
4	T1	1	3.0	1	3.0	0.073	3.7	LOS A	0.3	7.9	0.28	0.14	0.28	34.0
14	R2	43	3.0	47	3.0	0.073	3.7	LOS A	0.3	7.9	0.28	0.14	0.28	33.2
Approach		78	3.0	85	3.0	0.073	3.7	LOS A	0.3	7.9	0.28	0.14	0.28	33.5
West: MD 291														
5	L2	18	3.0	20	3.0	0.102	3.6	LOS A	0.5	11.7	0.15	0.05	0.15	34.6
2	T1	101	3.0	110	3.0	0.102	3.6	LOS A	0.5	11.7	0.15	0.05	0.15	34.7
12	R2	1	3.0	1	3.0	0.102	3.6	LOS A	0.5	11.7	0.15	0.05	0.15	33.9
Approach		120	3.0	130	3.0	0.102	3.6	LOS A	0.5	11.7	0.15	0.05	0.15	34.7
All Vehicles		384	3.0	417	3.0	0.148	3.8	LOS A	0.7	17.9	0.16	0.06	0.16	34.4

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701A.sip9

MOVEMENT SUMMARY

 Site: 101 [MD 291 @ MD 701A - FUT PM (Site Folder: General)]

#3906

Site Category: (None)

Roundabout

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed mph
		[Total veh/h	HV] %	[Total veh/h	HV] %				[Veh. veh	Dist] ft				
South: Edge Rd														
3	L2	3	3.0	3	3.0	0.006	3.8	LOS A	0.0	0.6	0.41	0.22	0.41	33.5
8	T1	1	3.0	1	3.0	0.006	3.8	LOS A	0.0	0.6	0.41	0.22	0.41	33.6
18	R2	1	3.0	1	3.0	0.006	3.8	LOS A	0.0	0.6	0.41	0.22	0.41	32.8
Approach		5	3.0	6	3.0	0.006	3.8	LOS A	0.0	0.6	0.41	0.22	0.41	33.3
East: MD 291														
1	L2	1	3.0	1	3.0	0.133	3.8	LOS A	0.6	15.8	0.11	0.03	0.11	34.9
6	T1	96	3.0	110	3.0	0.133	3.8	LOS A	0.6	15.8	0.11	0.03	0.11	35.0
16	R2	54	3.0	62	3.0	0.133	3.8	LOS A	0.6	15.8	0.11	0.03	0.11	34.1
Approach		151	3.0	174	3.0	0.133	3.8	LOS A	0.6	15.8	0.11	0.03	0.11	34.7
North: MD 701A														
7	L2	86	3.0	99	3.0	0.135	4.2	LOS A	0.6	15.6	0.27	0.14	0.27	33.2
4	T1	1	3.0	1	3.0	0.135	4.2	LOS A	0.6	15.6	0.27	0.14	0.27	33.3
14	R2	52	3.0	60	3.0	0.135	4.2	LOS A	0.6	15.6	0.27	0.14	0.27	32.5
Approach		139	3.0	160	3.0	0.135	4.2	LOS A	0.6	15.6	0.27	0.14	0.27	33.0
West: MD 291														
5	L2	16	3.0	18	3.0	0.175	4.5	LOS A	0.8	21.2	0.26	0.13	0.26	34.3
2	T1	165	3.0	190	3.0	0.175	4.5	LOS A	0.8	21.2	0.26	0.13	0.26	34.4
12	R2	2	3.0	2	3.0	0.175	4.5	LOS A	0.8	21.2	0.26	0.13	0.26	33.6
Approach		183	3.0	210	3.0	0.175	4.5	LOS A	0.8	21.2	0.26	0.13	0.26	34.4
All Vehicles		478	3.0	549	3.0	0.175	4.2	LOS A	0.8	21.2	0.22	0.10	0.22	34.0

Site Level of Service (LOS) Method: Delay & v/c (HCM 6). Site LOS Method is specified in the Parameter Settings dialog (Site tab).

Roundabout LOS Method: Same as Sign Control.

Vehicle movement LOS values are based on average delay and v/c ratio (degree of saturation) per movement.

LOS F will result if v/c > 1 irrespective of movement delay value (does not apply for approaches and intersection).

Intersection and Approach LOS values are based on average delay for all movements (v/c not used as specified in HCM 6).

Roundabout Capacity Model: US HCM 6.

Delay Model: HCM Delay Formula (Geometric Delay is not included).

Queue Model: HCM Queue Formula.

Gap-Acceptance Capacity: Traditional M1.

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: M:\3900\3906\TIS\SIDRA\MD 291 @ MD 701A.sip9



**APPENDIX IV
TRAFFIC COUNT
INFORMATION**

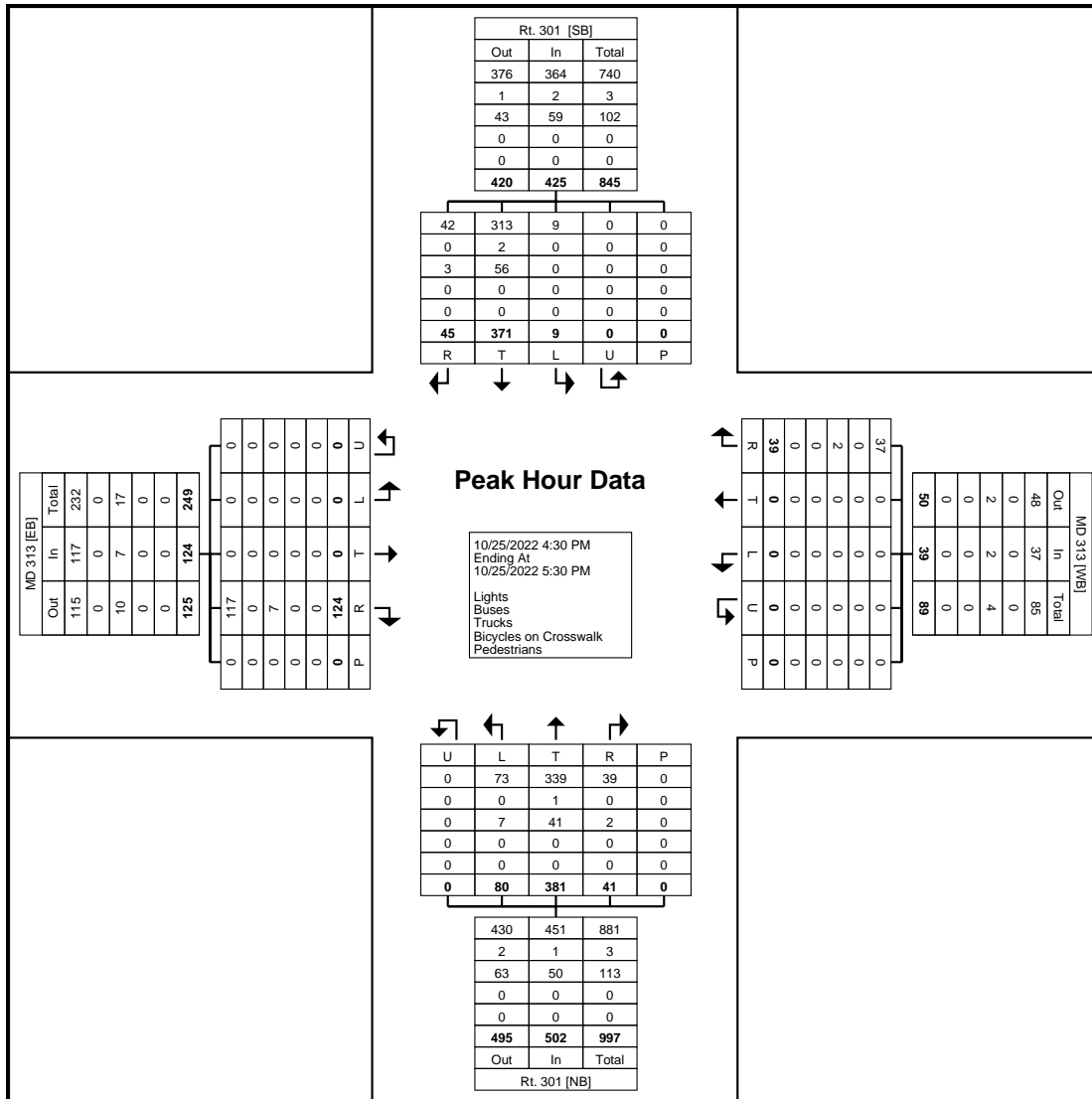


www.TSTData.com
184 Baker Rd

Kent County, MD
Route 301 & MD 313
Tuesday, October 25, 2022
Location: 39.319754, -
75.846661

Coatesville, Pennsylvania, United States 19320
610-466-1469
Serving Transportation Professionals Since 1995

Count Name: Rt. 301 & MD 313
Site Code:
Start Date: 10/25/2022
Page No: 6



Turning Movement Peak Hour Data Plot (4:30 PM)





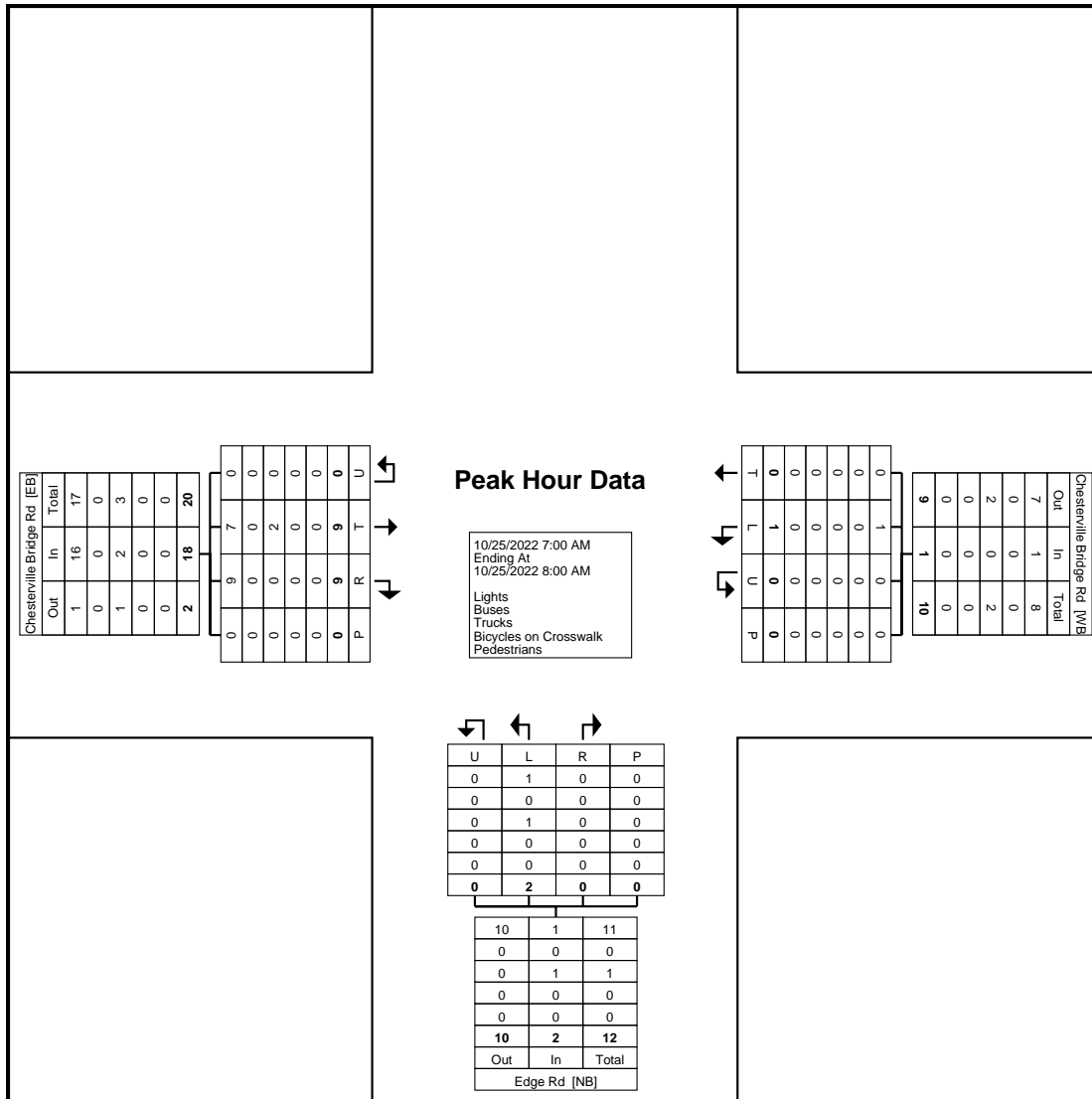


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Coatesville, Pennsylvania, United States 19320
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Kent County, MD
Chesterville Bridge Rd & Edge Rd
Tuesday, October 25, 2022
Location: 39.274795, -75.8651

Count Name: Chesterville Bridge Rd & Edge Rd
Site Code:
Start Date: 10/25/2022
Page No: 4



Turning Movement Peak Hour Data Plot (7:00 AM)

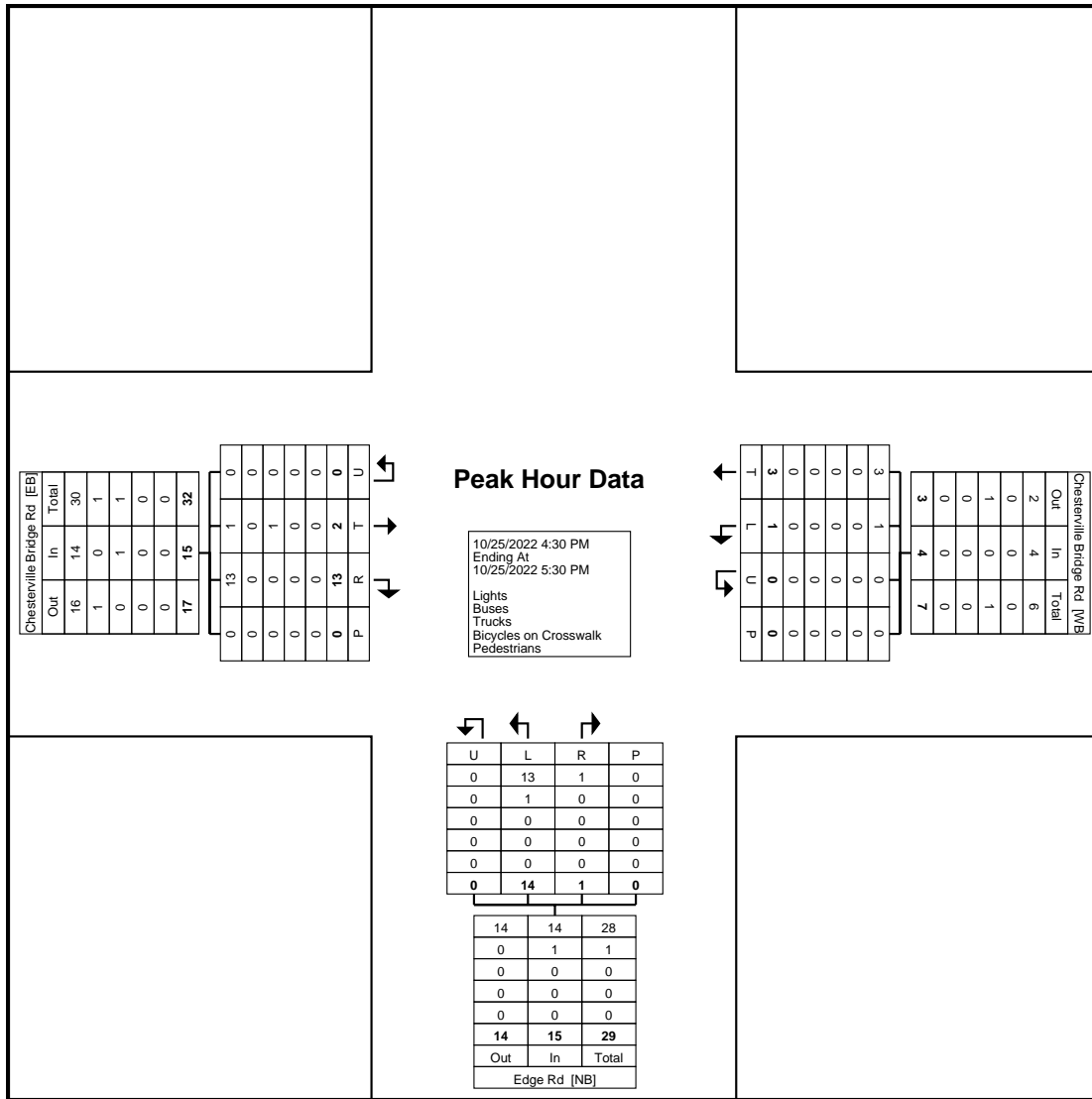


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610-466-1469
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Kent County, MD
Chesterville Bridge Rd & Edge Rd
Tuesday, October 25, 2022
Location: 39.274795, -75.8651

Count Name: Chesterville Bridge Rd & Edge Rd
Site Code:
Start Date: 10/25/2022
Page No: 6



Turning Movement Peak Hour Data Plot (4:30 PM)





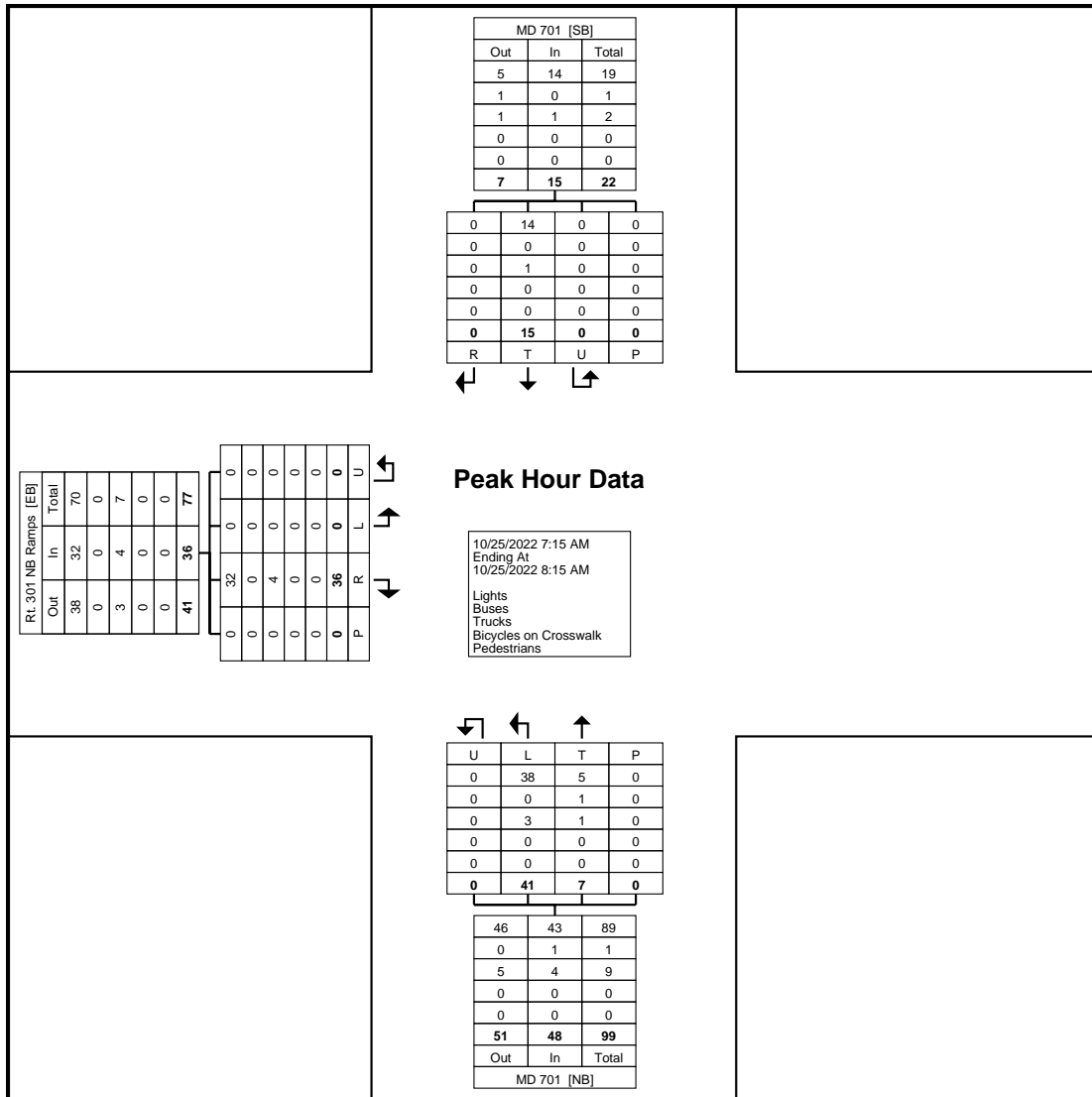


www.TSTData.com
184 Baker Rd

Coatesville, Pennsylvania, United States 19320
610-466-1469
Serving Transportation Professionals Since 1995

Count Name: MD 701 & Rt. 301
NB Ramps
Site Code:
Start Date: 10/25/2022
Page No: 4

Kent County, MD
MD 701 & Route 301 NB Ramps
Tuesday, October 25, 2022
Location: 39.265396, -
75.863044



Turning Movement Peak Hour Data Plot (7:15 AM)

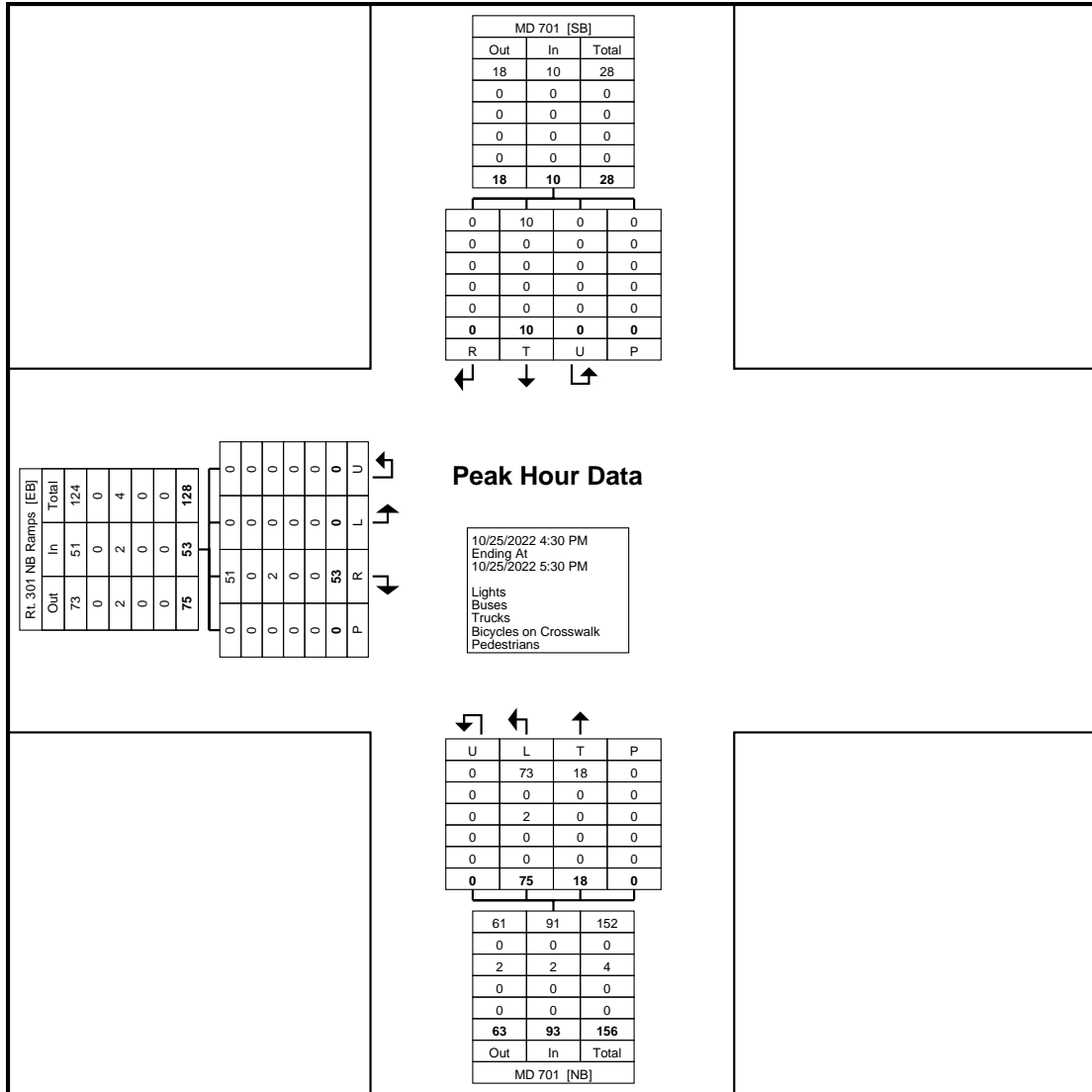


www.TSTData.com
184 Baker Rd

Coatesville, Pennsylvania, United States 19320
610-466-1469
Serving Transportation Professionals Since 1995

Count Name: MD 701 & Rt. 301
NB Ramps
Site Code:
Start Date: 10/25/2022
Page No: 6

Kent County, MD
MD 701 & Route 301 NB Ramps
Tuesday, October 25, 2022
Location: 39.265396, -
75.863044



Turning Movement Peak Hour Data Plot (4:30 PM)



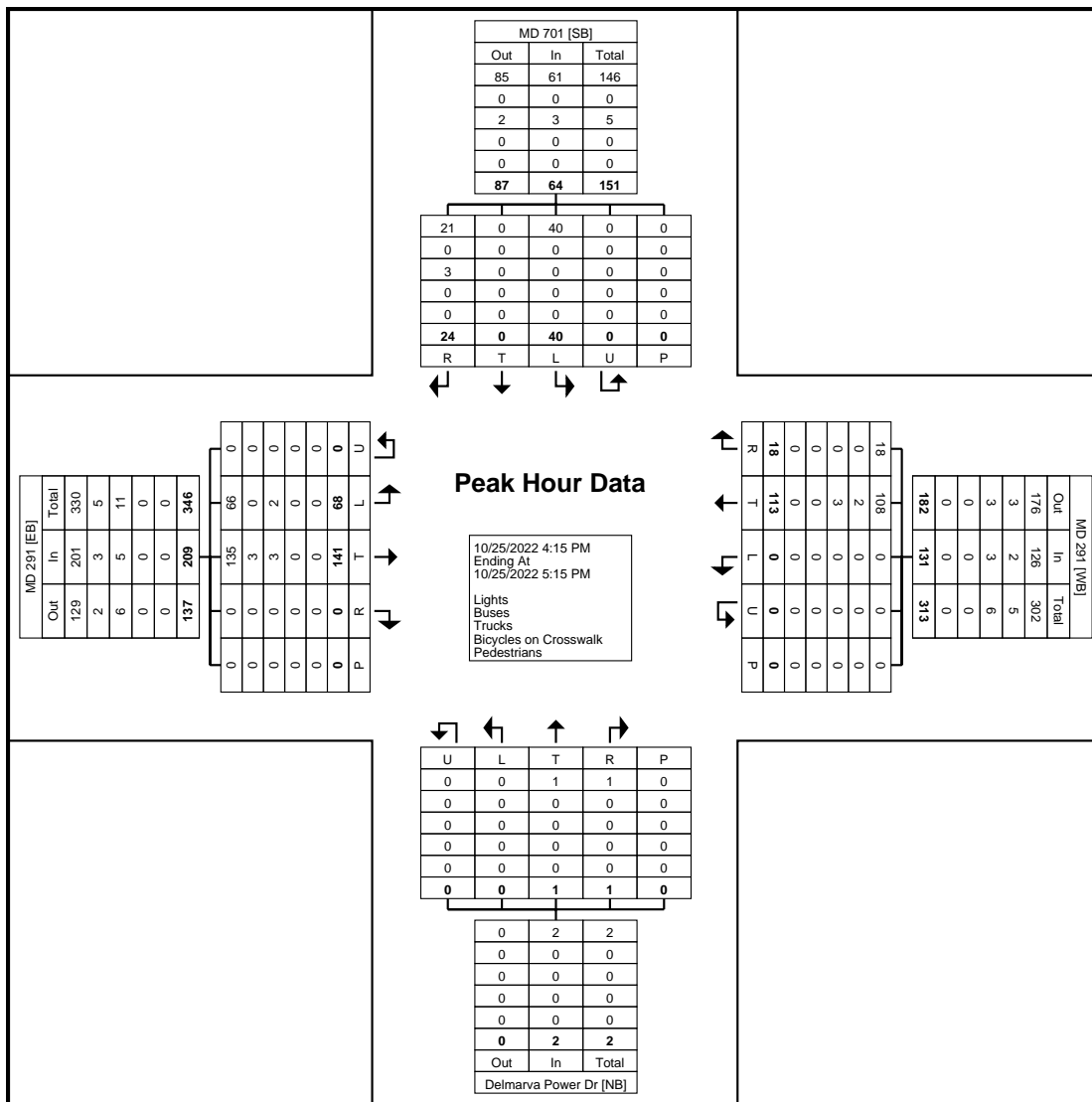


www.TSTData.com
184 Baker Rd

Coatesville, Pennsylvania, United States 19320
610-466-1469
Serving Transportation Professionals Since 1995

Kent County, MD
MD 291 & MD 701 Roundabout
Tuesday, October 25, 2022
Location: 39.263873, -
75.862595

Count Name: MD 291 & MD 701
Roundabout
Site Code:
Start Date: 10/25/2022
Page No: 6



Turning Movement Peak Hour Data Plot (4:15 PM)



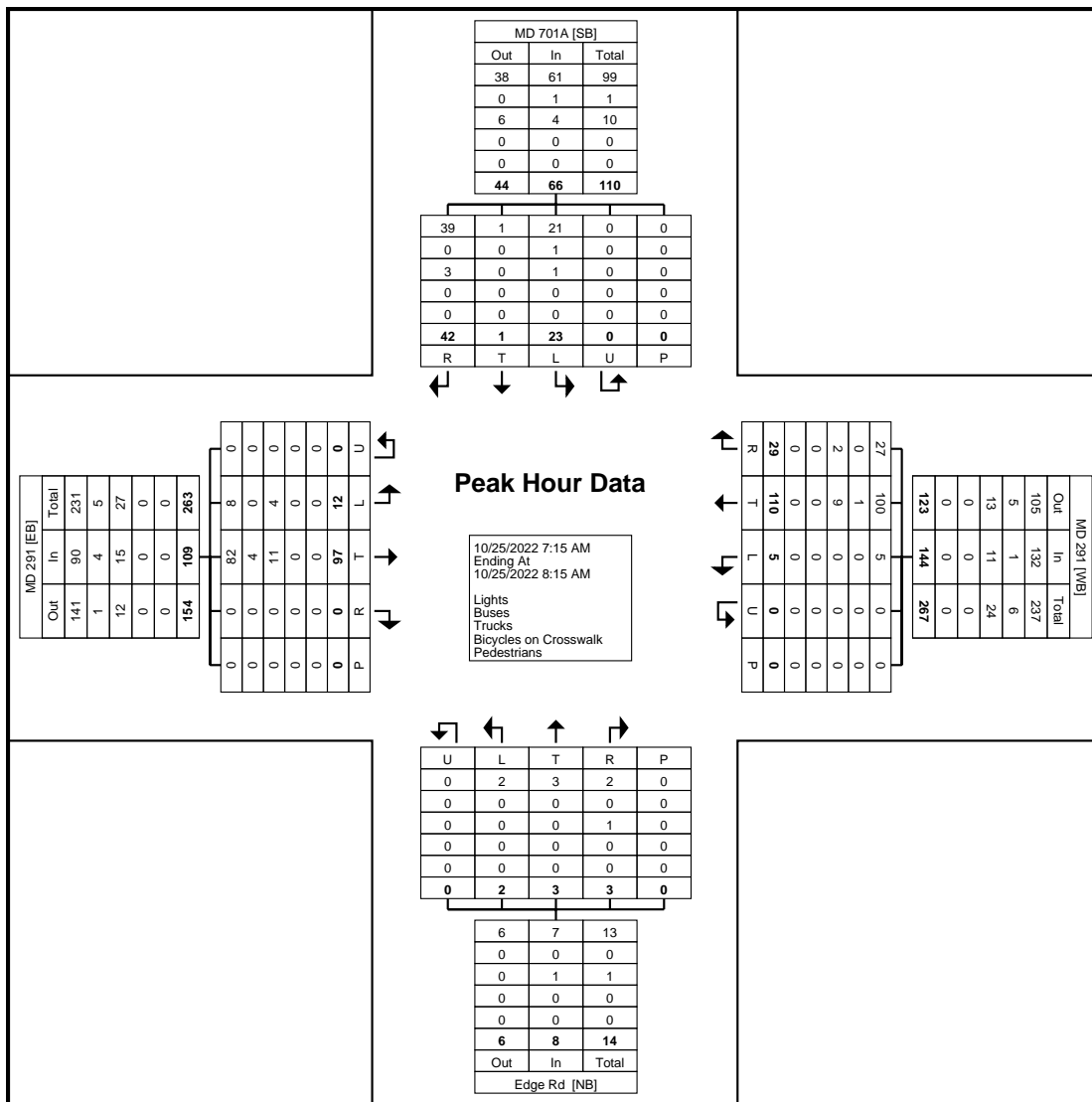


www.TSTData.com
184 Baker Rd

Kent County, MD
MD 291 & MD 701 A
Roundabout
Tuesday, October 25, 2022
Location: 39.264641, -
75.866398

Coatesville, Pennsylvania, United States 19320
610-466-1469
Serving Transportation Professionals Since 1995

Count Name: MD 291 & MD
701A roundabout
Site Code:
Start Date: 10/25/2022
Page No: 4



Turning Movement Peak Hour Data Plot (7:15 AM)





**APPENDIX V
SITE PLAN &
ITE TRIP DATA**

Warehousing (150)

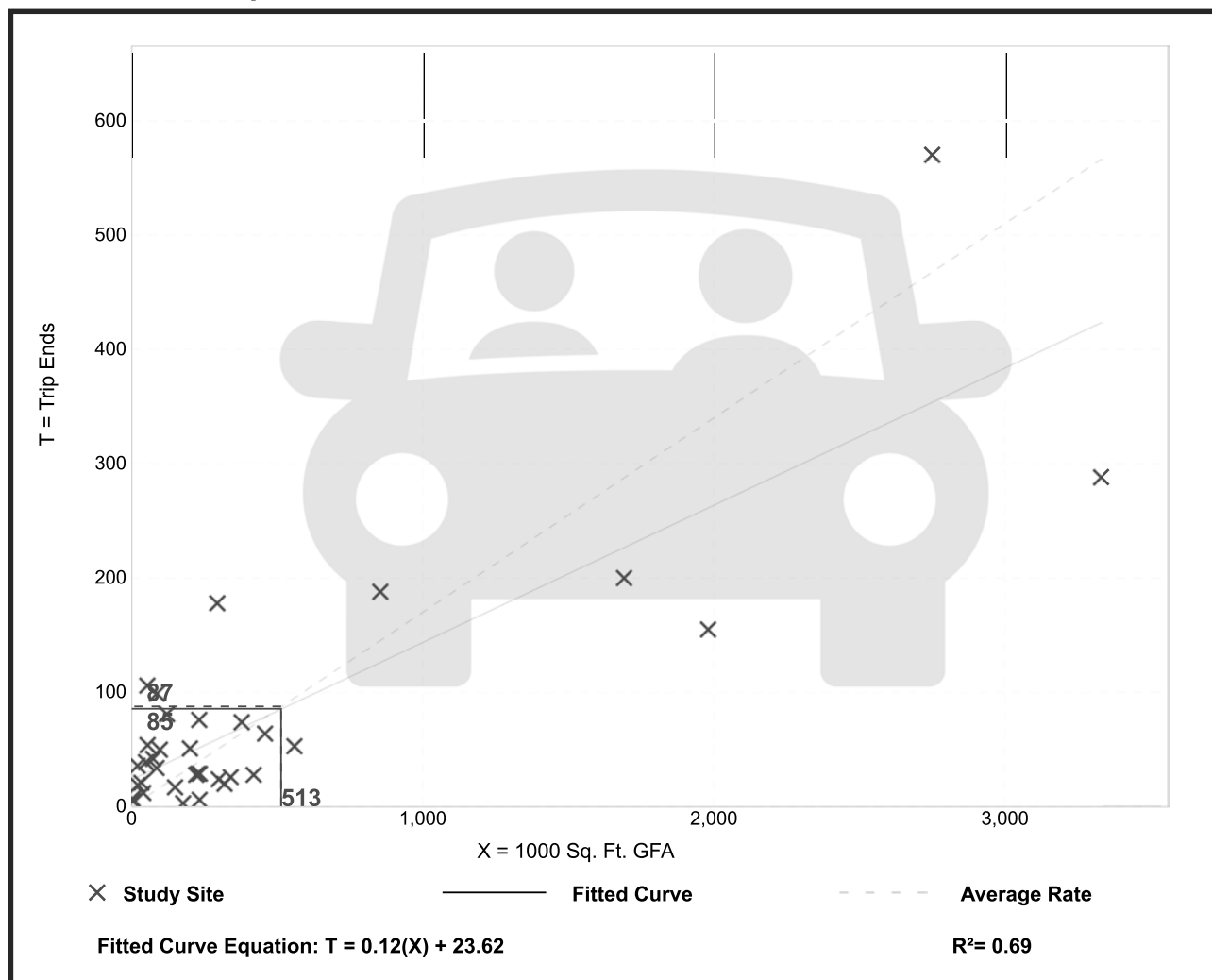
Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban
 Number of Studies: 36
 Avg. 1000 Sq. Ft. GFA: 448
 Directional Distribution: 77% entering, 23% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.17	0.02 - 1.93	0.19

Data Plot and Equation



Warehousing (150)

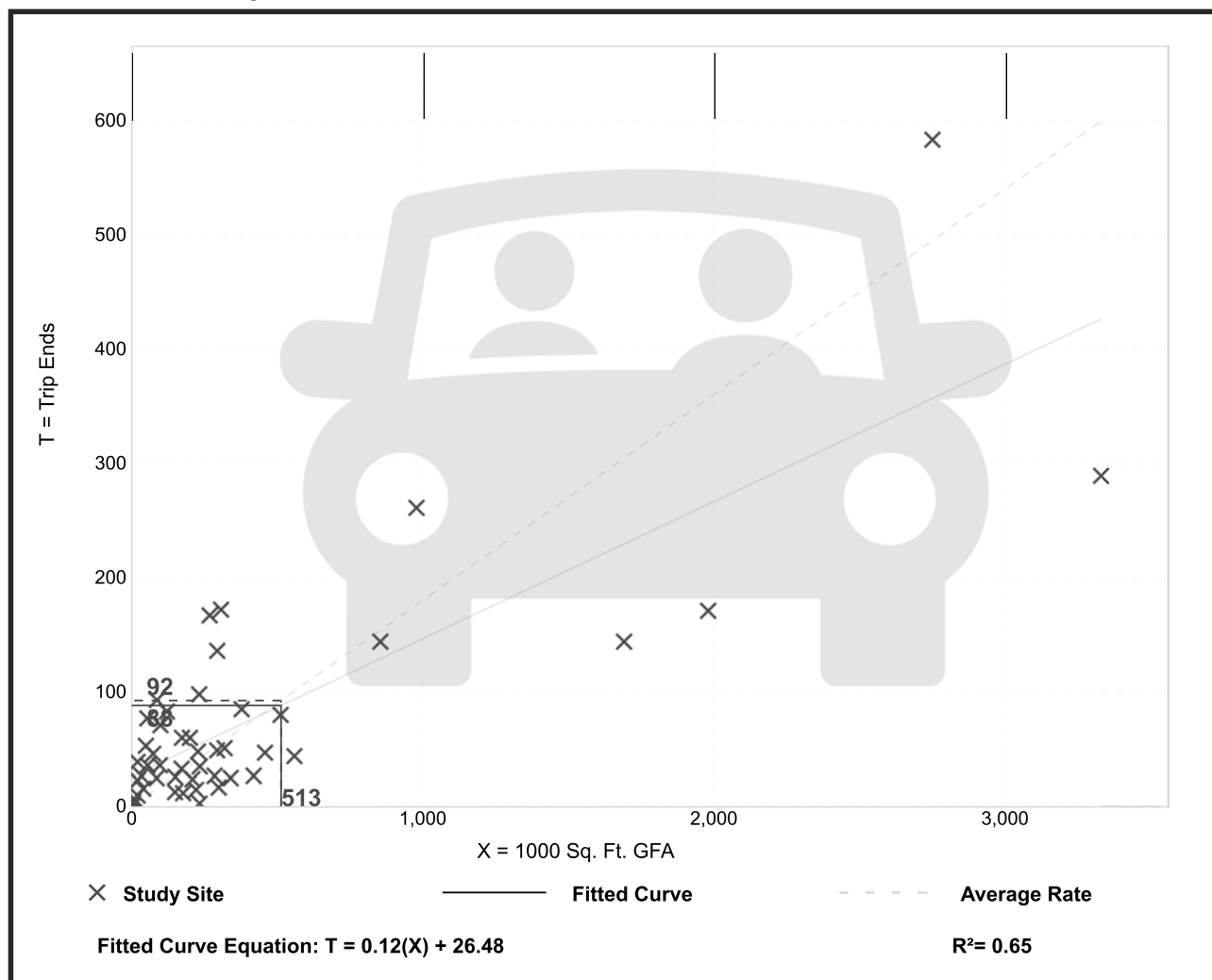
Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban
 Number of Studies: 49
 Avg. 1000 Sq. Ft. GFA: 400
 Directional Distribution: 28% entering, 72% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.18	0.01 - 1.80	0.18

Data Plot and Equation



Warehousing (150)

Truck Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 21

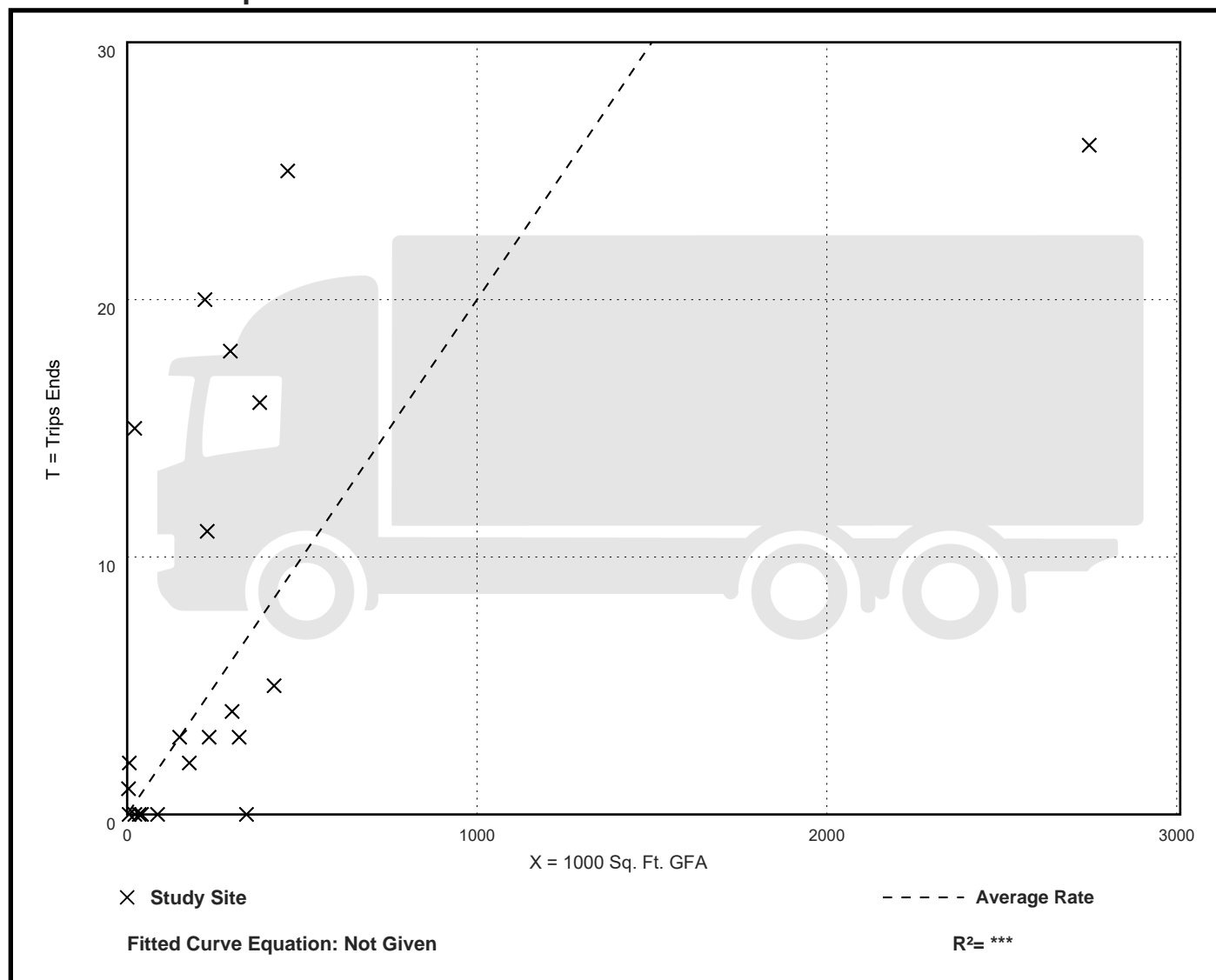
Avg. 1000 Sq. Ft. GFA: 309

Directional Distribution: 52% entering, 48% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.02	0.00 - 0.69	0.05

Data Plot and Equation



Warehousing (150)

Truck Trip Ends vs: 1000 Sq. Ft. GFA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 23

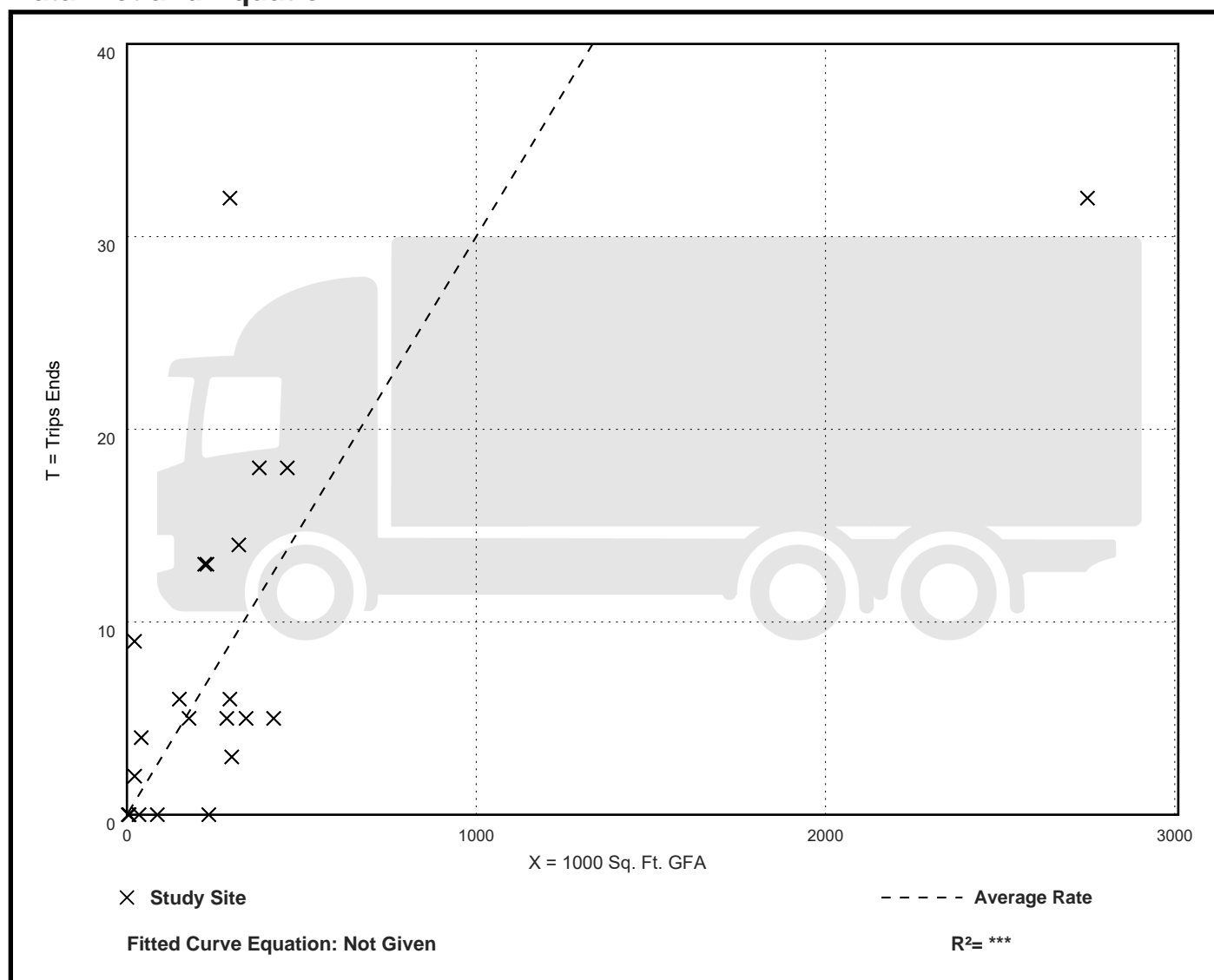
Avg. 1000 Sq. Ft. GFA: 308

Directional Distribution: 52% entering, 48% exiting

Truck Trip Generation per 1000 Sq. Ft. GFA

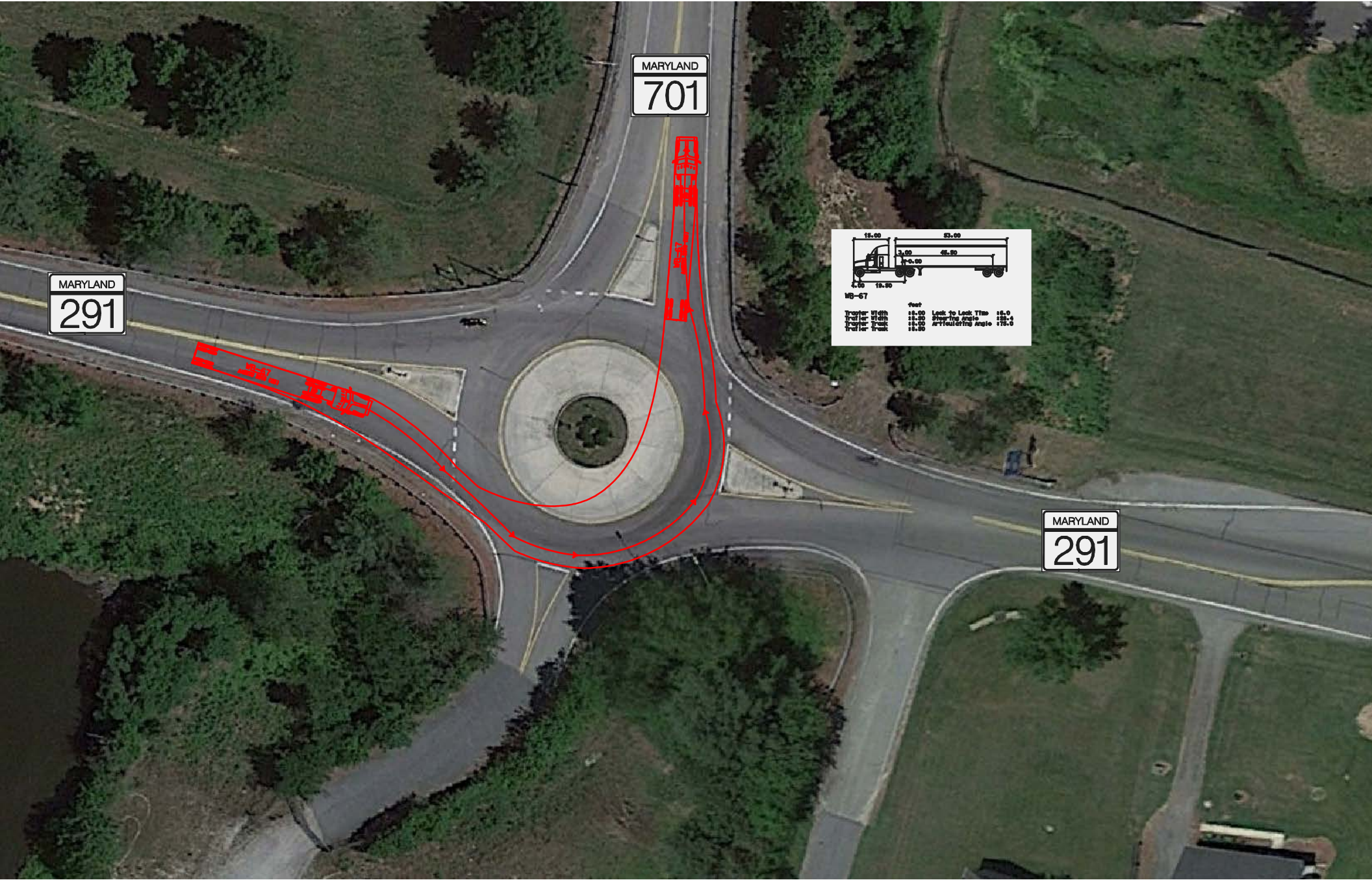
Average Rate	Range of Rates	Standard Deviation
0.03	0.00 - 0.42	0.03

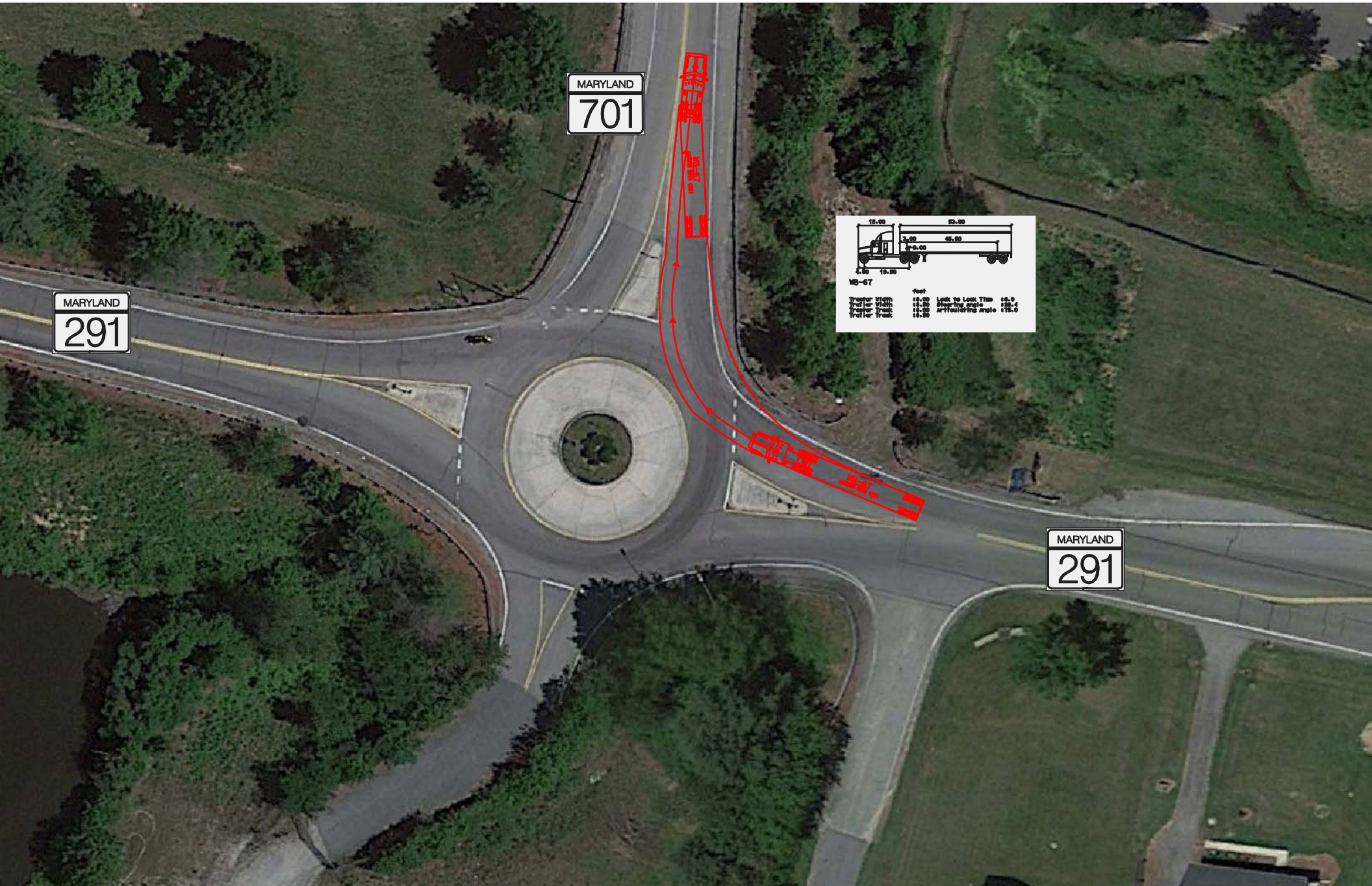
Data Plot and Equation





**APPENDIX VI
AUTOTURN
EXHIBITS**

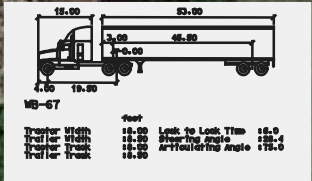


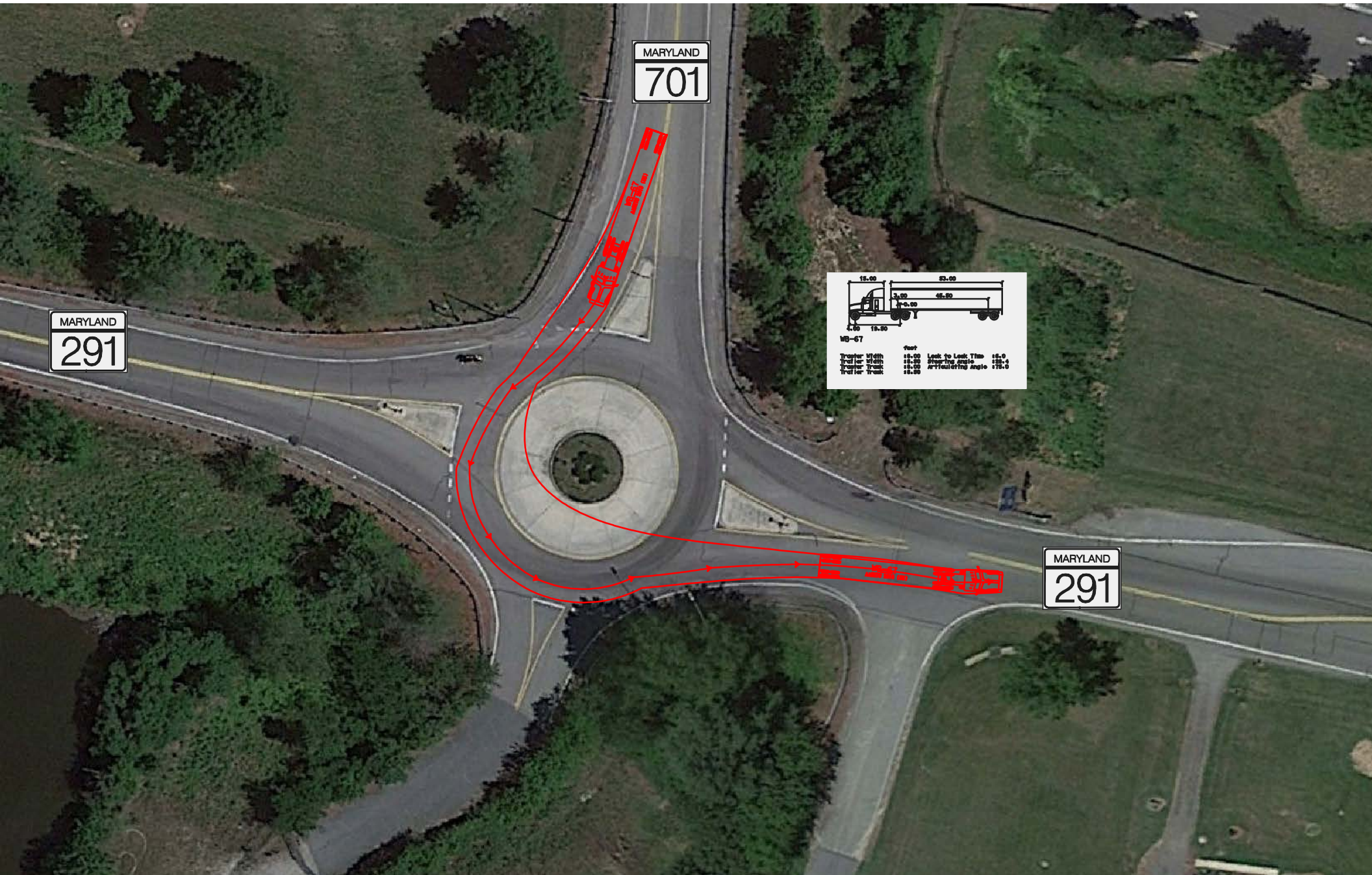


MARYLAND
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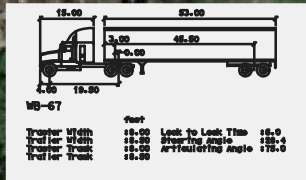


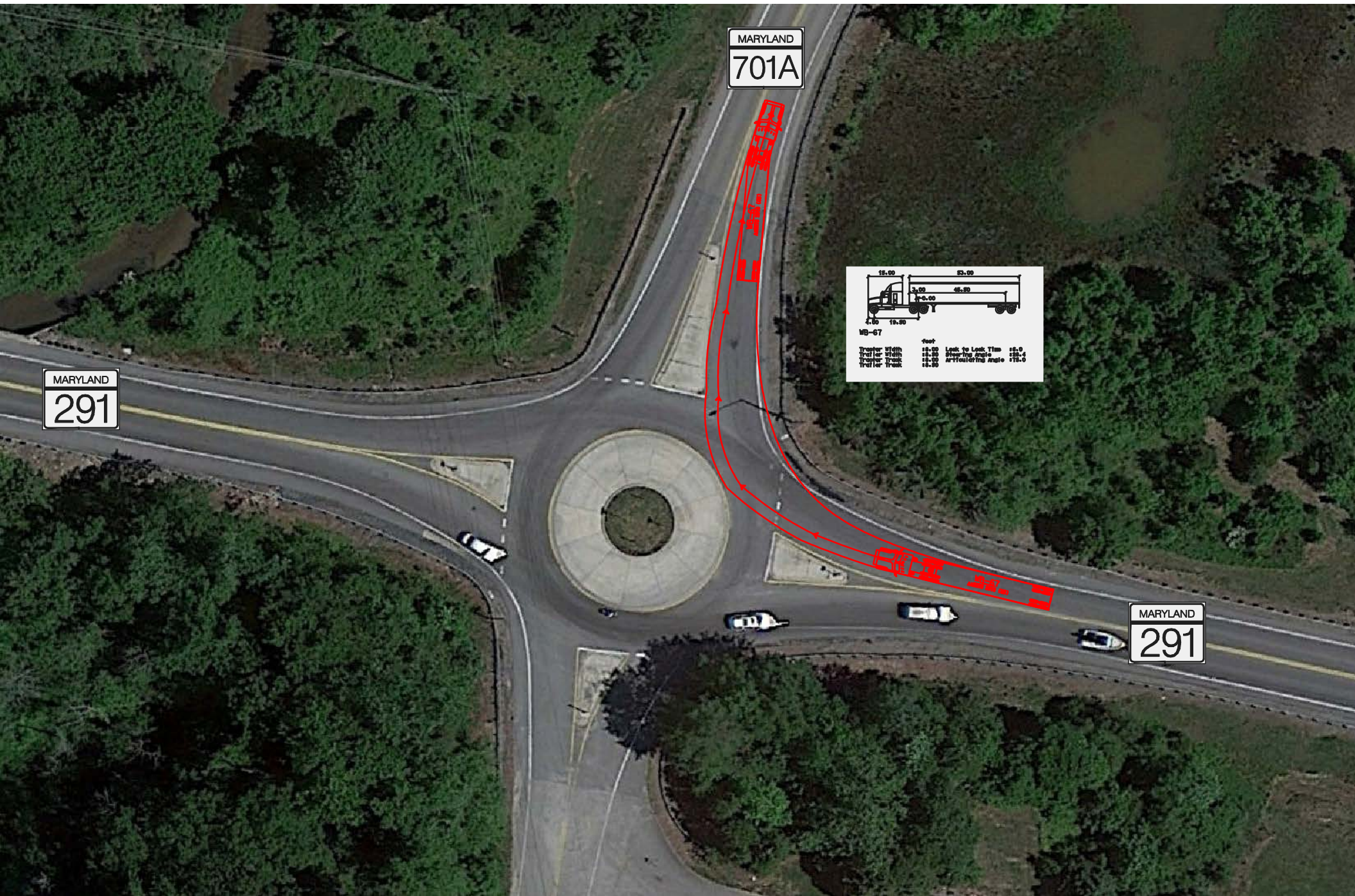


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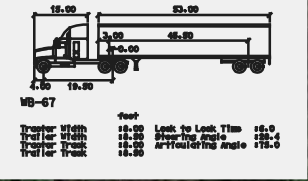


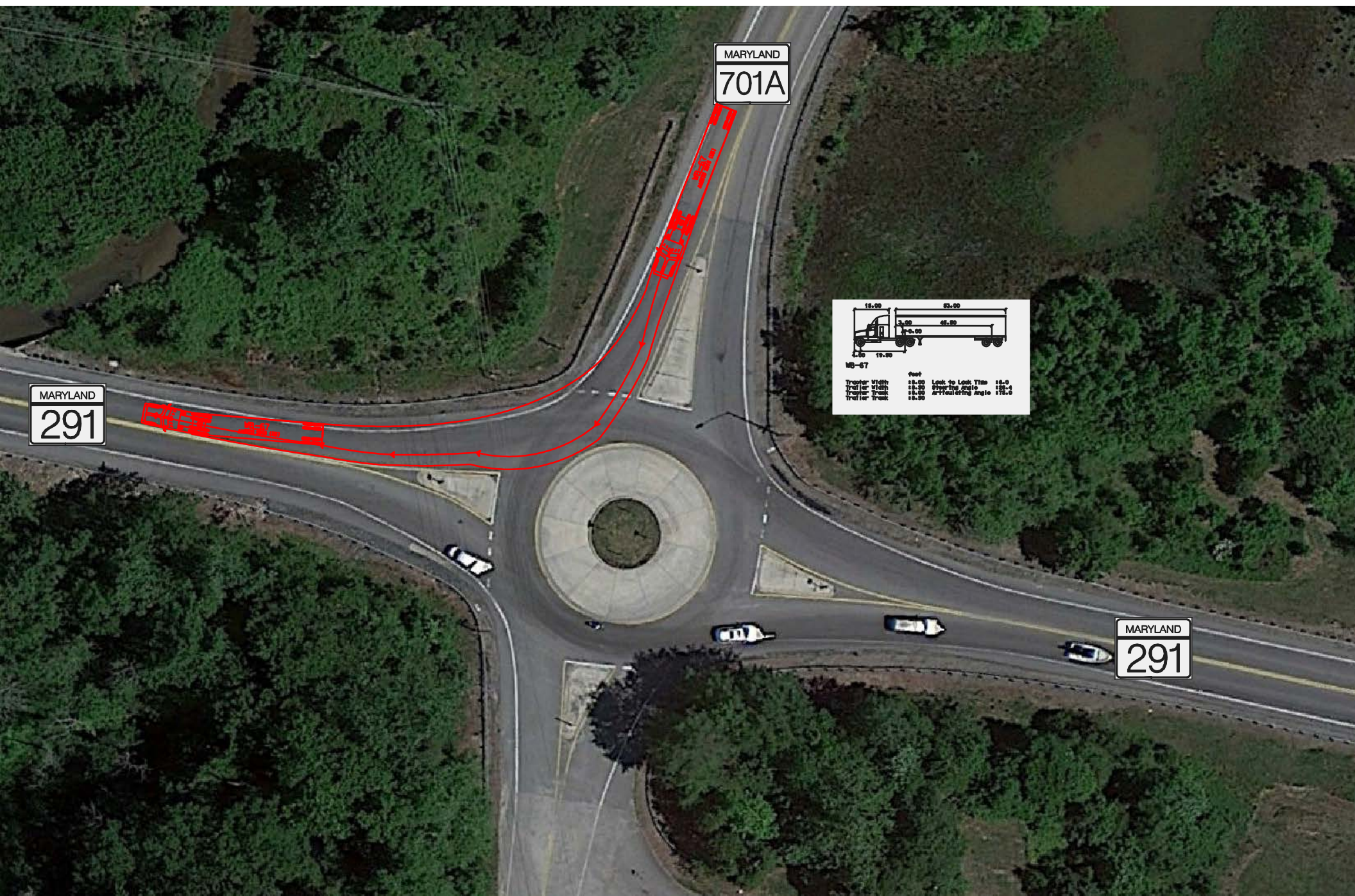


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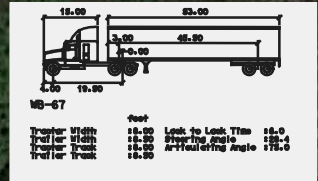


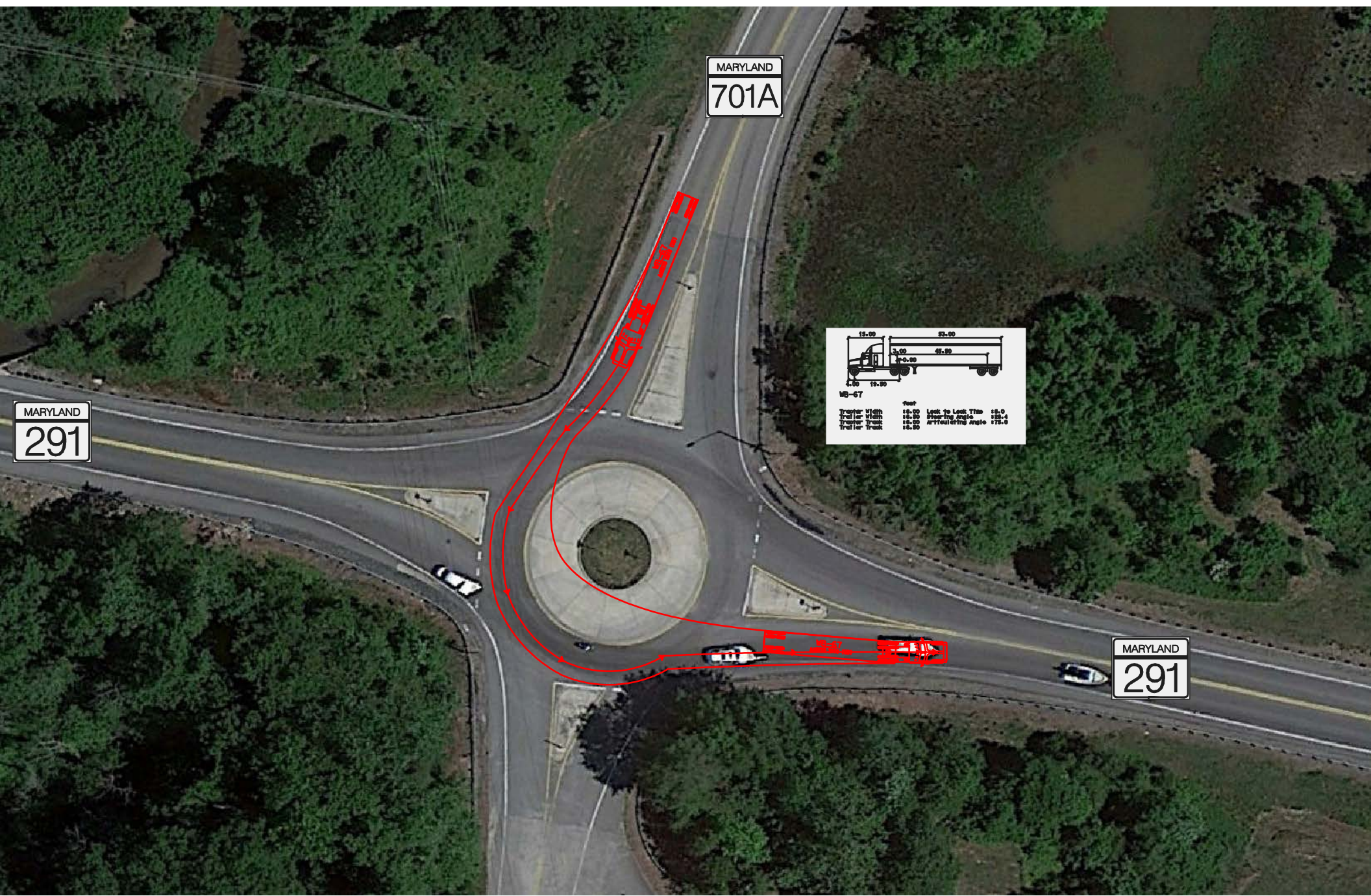


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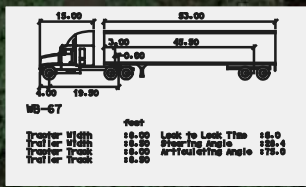


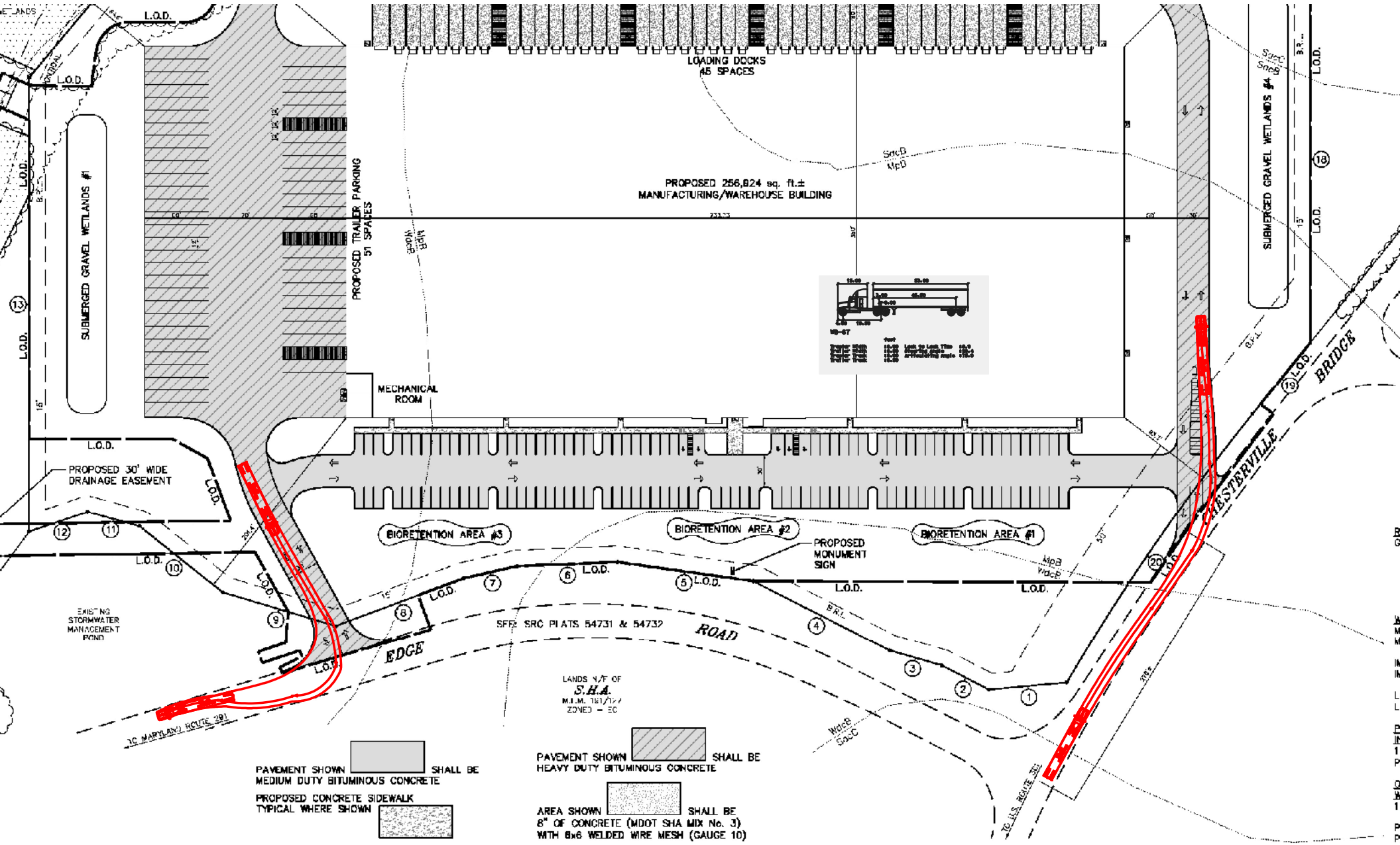


MARYLAND
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PROPOSED 256,824 sq. ft.±
MANUFACTURING/WAREHOUSE BUILDING

LOADING DOCKS
45 SPACES

PROPOSED TRAILER PARKING
51 SPACES

MECHANICAL ROOM

BIORETENTION AREA #3

BIORETENTION AREA #2

BIORETENTION AREA #1

PROPOSED MONUMENT SIGN


PROPOSED 30' WIDE DRAINAGE EASEMENT

EXIST'NG STORMWATER MANAGEMENT POND


SFE: SRC PLATS 54731 & 54732

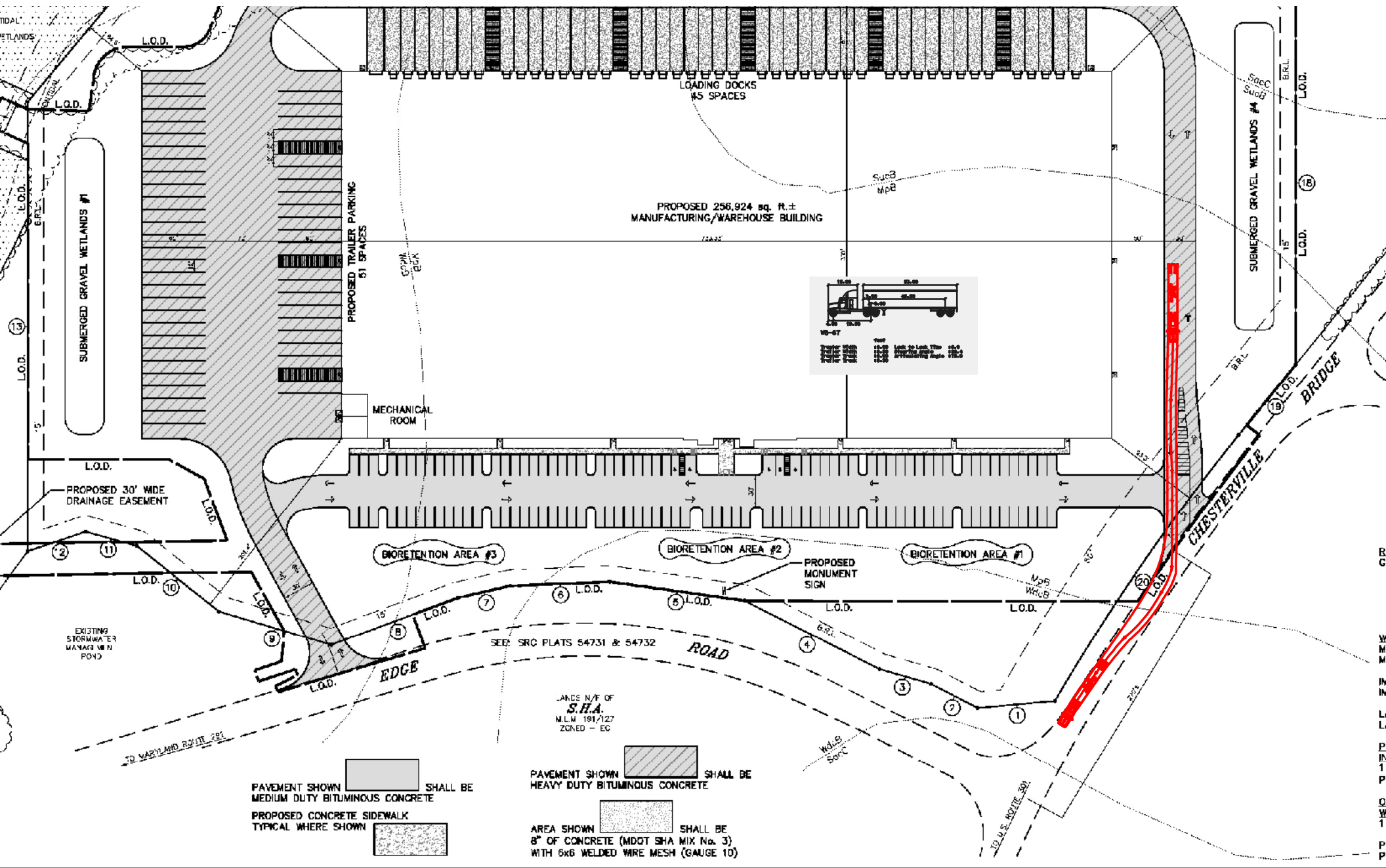
LANDS 4/7 OF
S.H.A.
M.I.M. 181/177
ZONED - EC


PAVEMENT SHOWN  SHALL BE MEDIUM DUTY BITUMINOUS CONCRETE

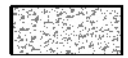
PROPOSED CONCRETE SIDEWALK TYPICAL WHERE SHOWN 

PAVEMENT SHOWN  SHALL BE HEAVY DUTY BITUMINOUS CONCRETE


AREA SHOWN  SHALL BE 8" OF CONCRETE (MDOT SHA MIX No. 3) WITH 6x6 WELDED WIRE MESH (GAUGE 10)




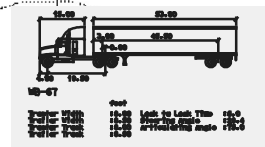
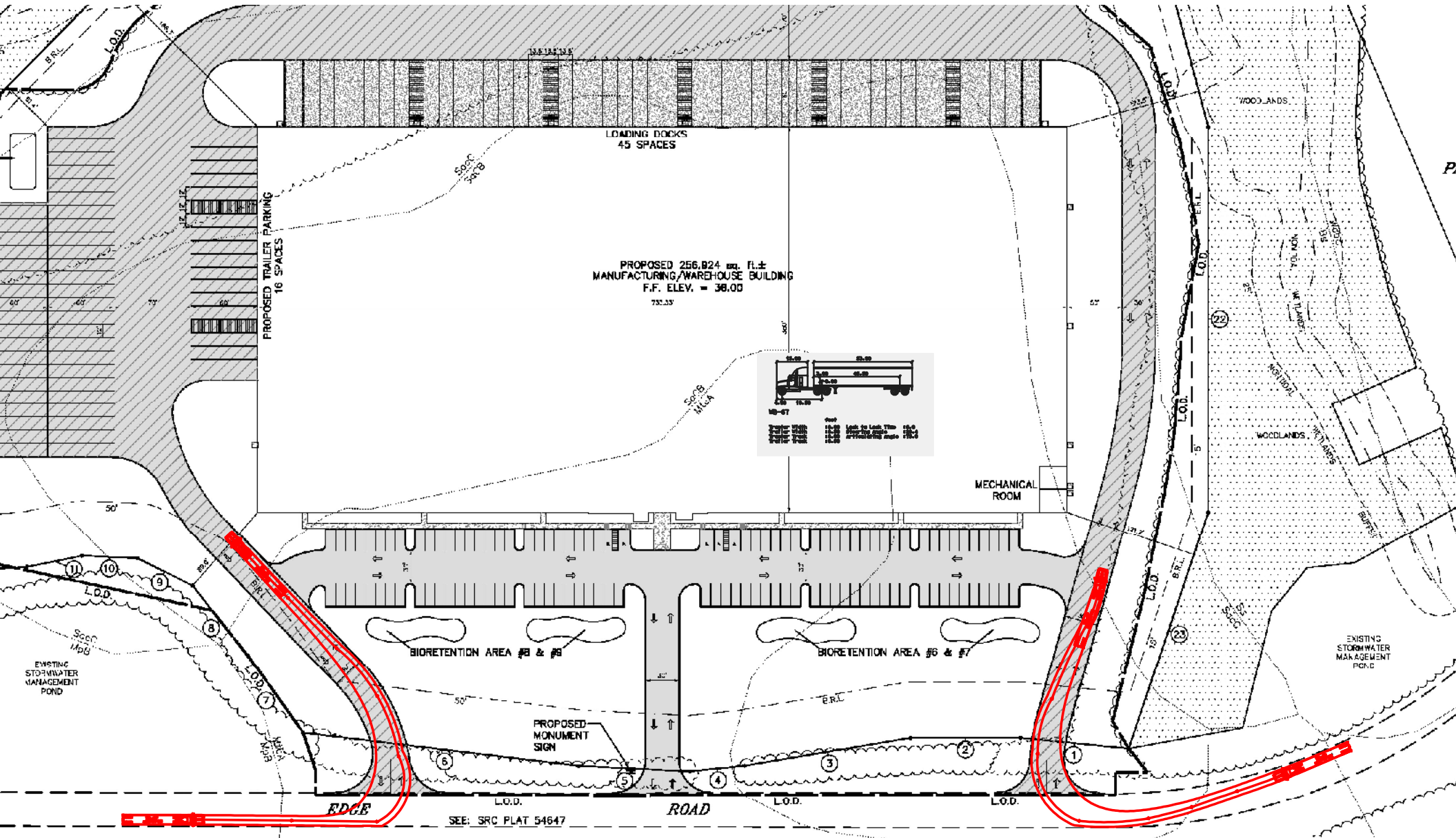
PAVEMENT SHOWN  SHALL BE MEDIUM DUTY BITUMINOUS CONCRETE

PROPOSED CONCRETE SIDEWALK TYPICAL WHERE SHOWN 

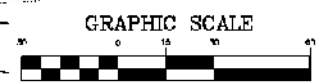
LANDS N/F OF S.H.A. M.L.M. 191/127 ZONED - EG

PAVEMENT SHOWN  SHALL BE HEAVY DUTY BITUMINOUS CONCRETE

AREA SHOWN  SHALL BE 8" OF CONCRETE (MDOT SHA MIX No. 3) WITH 6x6 WELDED WIRE MESH (GAUGE 10)



US ROUTE 301
(BLUE STAR MEMORIAL HIGHWAY)
 SEE: SRC PLATS 54645-54647 & 54731-54732 & 55138, 55205



REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT
 KENT SOIL AND WATER CONSERVATION DISTRICT
 KENT SOIL AND WATER CONSERVATION DISTRICT

Kent County Department of Planning, Housing and Zoning

Kent County Government Center
400 High Street • Chestertown, MD 21620
410-778-7475 (phone) • 410-810-2932 (fax)

SITE PLAN APPLICATION

File Number: _____ **Amount Paid:** _____ **Date:** _____

Project Name: LOT 1 - Everton Industrial office/warehouse

District: 1st Map: 31 Parcel: 6-1 Lot Size: 20.543ac Deed Ref: MLM 892/458 Zoning: EC

LOCATION: west side of Maryland Route 301 near Millington, north of MD Rte 291 and south of Chesterville Bridge Road

PROPOSED USE: Industrial office/manufacturing/warehouse

OWNER OF LAND:

Name: Millington Crossing Associates 1, LLC c/o Russ Richardson Telephone: 410-275-2714

Address: P.O. Box 546, Chester Heights, PA 19017 Email: russ.richardson@rpcrealtors.com

APPLICANT:

Name: Everton Industrial c/o Dan Gural Telephone: 609-929-6025

Address: 266 Atsion Road, Medford, NJ 08055 Email: dgural@evertonindustrial.net

AGENT/ATTORNEY (if any):

Name: _____ Telephone: _____

Address: _____ Email: _____

REGISTERED ENGINEER OR SURVEYOR:

Name: DMS & Associates, LLC c/o Kevin Shearon Telephone: 443-262-9130

Address: P.O. Box 80, Centreville, MD 21617 Email: kjs@dmsandassociates.com

Please provide the email of the one person who will be responsible for responding to comments. Only this person will be contacted by staff and will be the person responsible for forwarding the comments or requests for additional information to any other interested parties. EMAIL: kjs@dmsandassociates.com

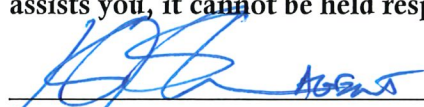
Water Supply: Public System On lot system

Sewerage: Public System On lot system

TELEPHONE SERVICED BY: Verizon

ELECTRIC SERVICED BY: Delmarva Power

NOTICE: The Planning Office is not required to make out this Application. If the Planning Department assists you, it cannot be held responsible for its contents.


Signature of Applicant

3/29/23
Date

Concept Plan Approving Authority: _____ Date _____

Preliminary Approving Authority: _____ Date _____

Final Approving Authority: _____ Date _____

PROJECT NARRATIVE

Everton Industrial Development Lot 1 of the lands of Millington Crossing Associates 1, LLC Near Millington, Maryland

In accordance with Article VI, Section 5.4.B of the Kent County Zoning Ordinance, we offer the following:

The site is located on the west side of Maryland Route 301 near the Town of Millington. Following a subdivision process, this property will be identified as Tax Map 31, Parcel 6-1, Lot 1. This lot and Lot 2 are being subdivided from an overall 114.499 acre parcel owned by Millington Crossing Associates 1, LLC. Everton Industrial Development is the contract purchaser of Lot 1.

The lot is zoned Employment Center (EC) and will be 20.543 acres. The proposed development includes a 256,924-sf flex manufacturing/warehouse building with associated parking and loading docks.

The building is proposed to be connected to the Town of Millington / Kent County public water and sewer systems. A 10" diameter water line will be extended from an existing 10" main at the intersection of Edge Road and West Edge Road. The new main will extend along Edge Road past the two proposed lots to the intersection of Chesterville Bridge Road where it will be capped for future extension (by others) to loop back to the Town of Millington. A service lateral will be installed to connect the building to the new main. Fire hydrants will be provided along the route.

The building will also be served by public sewer. A grinder pump will be installed at the building. A small diameter force main lateral will connect to a new public 2" force main that will run within MDOT SHA right-of-way to a connection point near Maryland Route 301 and West Edge Road.

Forest Conservation was addressed during the subdivision process and resulted in a deed restricted area of 6.41 acres.

In accordance with Section 14.9.B.1-7 we offer the following relative to standards for site design (responses in *italics*):

1. Site Access
 - a. Site access shall be subject to the following regulations to help ensure safety and alleviate traffic congestion:
 - i. Where property abuts a primary, secondary, or a collector road, access to the property shall be by way of the secondary or collector road. Exceptions to this rule shall be instances where the Planning Commission,

or where applicable the Planning Director, determines that direct access onto the primary road would promote traffic safety.

The proposed development is located just off of US Route 301, but takes access from Chesterville Bridge Road and Edge Road. One tractor trailer access will be located on Chesterville Bridge Road. The orientation of the access is on an angle to the existing road in order to avoid tractor trailers from turning north onto Chesterville Bridge Road. The second access point will occur off of Edge Road. Both roads are owned and maintained by Kent County.

- ii. Where one or more contiguous parcels abutting a primary road are under single ownership and any one of the parcels abuts a secondary or collector road, access to the property shall be by of the secondary road. Exceptions to this rule shall be instances where the Planning Commission, or where applicable the Planning Director, determines that direct access onto the primary road would promote traffic safety.

N/A – access to a primary road is not proposed.

- iii. Only one direct approach onto a primary road from an individual parcel of record as of August 1, 1989 shall be permitted unless the Planning Commission, or where applicable the Planning Director, finds one of the following:

N/A – access to a primary road is not proposed.

- iv. An additional entrance is significantly beneficial to the safety and operation of the highway.
 - 1. One entrance is a safety hazard or increases traffic congestion.
 - 2. The property is bisected by steep slopes, bodies of water, or other topographic feature so as to render some portion of the property inaccessible without additional road access.

N/A – access to a primary road is not proposed.

- b. Where a proposed road is designated on an approved County or Town map, site plans for development adjacent to the designated roadway shall include provisions for future access to the roadway.

N/A – no new public roads are proposed.

- c. Existing, planned, or platted streets on adjacent properties shall be continued when the Planning Commission or where applicable the Planning Director determines that the continuation is necessary for safe and reasonable circulation between the properties.

To our knowledge there are no existing, planned or platted streets on adjacent properties that would need to be connected through this development.

- d. When deemed necessary by the Planning Commission or where applicable the Planning Director, developments shall provide access to adjacent tracts not presently developed.

Given the topography west of the proposed building sites, we request that a requirement to connect to adjacent tracts be waived.

- e. Access shall be consolidated whenever possible.

The number of access points has been reduced from three to two.

- f. Whenever possible, roads shall be constructed above the elevation of the 100-year floodplain.

The entire development envelope is above the 100-year floodplain.

- g. The applicant shall demonstrate that access to the project is adequate and the roads which will be impacted have the capacity to handle the traffic generated by the proposed project and will not endanger the safety of the general public.

A Traffic Impact Study was completed as part of the subdivision process. The results show that all of the surrounding intersections will operate at Level of Service A or B following this development.

2. On-site Circulation

- a. Sites shall be designed to prevent awkward or dangerous vehicular flow.

The site has been designed to separate employee/visitor vehicles from tractor trailers to the extent possible to promote a safer vehicular flow pattern.

- b. Loading and unloading spaces shall not block the passage of other vehicles on the service drive or major pedestrian ways or create blind spots when trucks are loading or unloading.

All loading and unloading spaces are located behind or to the side of the building, away from other employee/visitor vehicles.

- c. Sites shall be designed to discourage pedestrians and vehicles from sharing the same pathways.

Sidewalks have been provided along the building façade to aid in separating pedestrians from vehicles.

- d. Safe, convenient, and centralized handicap parking shall be provided.

All ADA compliant spaces have been located closest to pedestrian entrance doors.

- e. Trash boxes must be accessible to collection trucks when all vehicle parking spaces are filled.

Trash corrals will be located to the rear of the buildings to avoid conflict with employee/visitor vehicles.

- f. Parking shall not be permitted in the required front yard.

With approval of the requested 50-ft width, no parking is located within the front yard.

3. Floodplain

- a. In order to prevent excessive flood damage and to allow for the protection of the natural and beneficial floodplain functions, all development, new construction, and substantial improvements to existing structures in all floodplain zones shall comply with the requirements of Article VI, Section 7 of this Ordinance, including but not limited to the following:

- i. Elevation of all new or substantially improved structures;
- ii. Compliance with venting and other construction standards; and
- iii. Submission and recordation, where applicable, of Elevation Certificates, Declaration of Land Restrictions, deed restrictions, and venting affidavits.

N/A – development area is not within the floodplain.

- b. Placement of buildings and materials. In general, buildings and accessory structures should be located entirely out of the floodplain, out of the flood protection setback, or on land that is least susceptible to flooding. All structures permitted in the floodplain shall be oriented so as to offer the least resistance to the flow of floodwaters.

The proposed building is located out of the floodplain.

- c. General development shall not occur in the floodplain where alternative locations exist. Before a permit is issued, the applicant shall demonstrate that new structures cannot be located out of the floodplain and that encroachments onto the floodplain are minimized.

N/A – development area is not within the floodplain.

4. General Landscape Requirements

- a. The front yard shall be landscaped and shall be maintained in a neat and attractive condition.

The front yards will be landscaped and maintained in a neat and attractive condition.

- b. Sites shall be permanently maintained in good condition with at least the same quality and quantity of landscaping as originally proposed.

So noted.

- c. The landscape plan shall be prepared by a registered professional forester, landscape architect, or other professional with equivalent experience and qualifications.

The landscape plan will be designed by a licensed landscape architect.

- d. The Planning Commission, or where applicable the Planning Director, may waive the landscape requirements when it is demonstrated that the spirit and intent of the requirement is accomplished through other means or the nature of the change is one that does not require additional landscaping.

So noted.

5. Screening

- a. Screening is required to protect adjoining properties and roadways from noise, glare, and uses which are visually incompatible with neighboring land uses. Screening is required:

- i. On sites which involve loading or unloading (including the storage of vehicles and boats), trash, or disposal areas and where accessory buildings and structures are adjacent to residential properties.

The site layouts have been designed to have all loading / unloading areas facing away from adjacent properties and public roads to the extent possible. Screening has been provided where areas may be visible.

- ii. Where exterior storage areas are visible from roadways, sidewalks, or nearby residential properties.

N/A

- iii. When noise not typically occurring in residential areas is expected to project onto nearby properties.

It is not anticipated that excessive noise will occur at this site. Once an end user is identified, we will provide information relative to the Industrial Performance Standards.

- iv. To screen parking areas from motorists, pedestrians, and adjoining residential properties.

Natural screening exists for these properties between Edge Road and US Route 301. Additional screening has been added along Chesterville Bridge Road near the existing residential homes.

- v. Where the industrial district abuts a residential district or a primary or secondary road.

The property abuts agricultural fields and a few residences, and a service road. Additional screening has been added along Chesterville Bridge Road near the existing residential homes.

- vi. Where the Planning Commission determines that additional screening is necessary to protect properties in the area.

So noted.

- b. Landscaped screens shall be designed to complement other landscaping occurring naturally on the site, planted previously, or approved as a part of a site plan review. Whenever possible, existing vegetation and landform shall be used to create screens.

Natural screening exists onsite as well as on adjacent properties between Edge Road and US Route 301. Additional screening has been added along Chesterville Bridge Road near the existing residential homes.

- c. The screen shall be capable of providing year round screening.

Screening added is evergreen to provide year round screening.

- d. When noise is likely to be a factor, the screen shall be of sufficient construction to be an effective noise buffer.

So noted.

- e. Screening shall consist of trees and plants and may include masonry, or wooden fencing used with or without berms. Screening shall consist of a functional and well-designed combination of the following:

- i. Vegetative ground cover

- ii. Coniferous and deciduous shrubs

1. Specimens of which will reach and maintain a minimum height of 5 feet of full vegetative growth.
2. Plants which measure a minimum of 3 feet in height at the time of planting and are expected to attain a 5-foot height within 3 years.
3. Coniferous and deciduous trees Species and sizes of which will be chosen to best accomplish an adequate screen (i.e., evergreens used for visual screening, deciduous trees for seasonal screening)

So noted.

- f. Natural slopes and existing vegetation may be substituted for some or all of the requirements above, provided that these features serve to screen the area from adjoining properties and roadways. The Planning Commission, or where applicable the Planning Director, shall determine the acceptability of using existing slopes and vegetation for this purpose. The Planning Commission, or

where applicable the Planning Director, may waive screening where it is physically impossible to accomplish.

So noted.

- g. Screening and fencing shall be maintained in at least the same quality and quantity as initially approved.

So noted.

6. Lighting

- a. Lighting on the site shall be designed to avoid glare onto adjacent properties.

All site lighting will be dark sky compatible and will be directed downward to avoid glare onto adjacent properties.

- b. Lighting on the site shall be sufficient to provide for the safety and security of the business, its employees, and its customers.

A lighting plan will be developed to provide a safe and secure environment for the business, its employees, and its customers / guests.

- 7. Site Planning External Relationship: Site planning within the District shall provide protection of individual lots from adverse surrounding influences and for protection of surrounding areas from adverse influences existing within the District. In particular:

- a. Principal vehicular access points shall be designed to encourage smooth traffic flow with controlled turning movements and minimum hazards to vehicular or pedestrian traffic. Storage, turn lanes, or traffic dividers may be required by the Planning Commission where existing or anticipated heavy flows indicate need. In general, streets shall not be connected with streets outside the District in such a way as to encourage the use of such streets by substantial amounts of through traffic.

One tractor trailer access is located on Chesterville Bridge Road. The orientation of the access is on an angle to the existing road in order to avoid tractor trailers from turning north onto Chesterville Bridge Road. The second access points is off of Edge Road.

- b. Yards, fences, walls, or vegetative screening shall be provided where needed to protect residential districts or public streets from undesirable views, lighting, noise, or other offsite influences. In particular, outdoor storage, extensive off-street parking areas, and service areas for loading and unloading vehicles, and for storage and collection of refuse and garbage shall be effectively screened.

Additional screening has been added along Chesterville Bridge Road near the existing residential homes.

This project is consistent with the Kent County Comprehensive Plan. The following are excerpts from the plan that show consistency with the proposed subdivision:

- Promote the development of the County employment centers.
 - The subdivision is proposed in the Employment Center zoning district which allows a variety of industrial scale developments.
- The County can encourage potential employers to locate in areas where employment and industrial uses are desirable and compatible.

- The County can also provide a stronger commercial/industrial tax base to help balance County tax revenues.
- Expand regulatory flexibility for the creation of and location of employment centers and industrial uses...Theses efforts will especially focus on the Worton area, and the US 301 corridor with a priority that the area between the Town of Millington and the lands surrounding the Route 291-Route 301 intersection be guided by the desired expansion of services and land use identified by Millington's municipal growth element.

Following recordation of the subdivision plats, Lots 1 & 2 will be owned, developed, and maintained by Everton Industrial Development, LLC, 266 Atsion Road, Medford, New Jersey, 08055. The balance of the parcel will be owned and maintained by Millington Crossing Associates 1, LLC, P.O. Box 546, Chester Heights, Pennsylvania, 19017.

Stormwater management has been addressed using Environmental Site Design to the Maximum Extent Practicable. A Stormwater Management Report has been provided.

INDUSTRIAL PERFORMANCE STANDARDS

Everton Industrial Development Lot 1 of the lands of Millington Crossing Associates 1, LLC Near Millington, Maryland

In accordance with Article V, Section 15.6 of the Kent County Zoning Ordinance, the following will be addressed once an end user has been identified:

1. NOISE
2. VIBRATION
3. GLARE
4. AIR POLLUTION
5. WATER POLLUTION
6. RADIOACTIVITY
7. ELECTRICAL INTERFERENCE
8. SMOKE AND PARTICULATE MATTER
9. TOXIC MATTER
10. ODOROUS MATTER

PRELIMINARY CONSTRUCTION PLANS FOR A MANUFACTURING/WAREHOUSE BUILDING

ON LOT 1, THE LANDS OF MILLINGTON CROSSING ASSOCIATES 1, LLC FIRST ELECTION DISTRICT, KENT COUNTY, MARYLAND NEAR THE TOWN OF MILLINGTON

SITE NOTES

- PROPERTY LINE INFORMATION FOR P. 6-1 SHOWN HEREON IS THE RESULT OF A FIELD RUN SURVEY BY MICHAEL A. SCOTT, INC. IN JUNE, 2017. HORIZONTAL DATUM IS NAD 83/2011. SEE PRELIMINARY SUBDIVISION PLATS PREPARED BY DMS & ASSOCIATES, LLC FOR PARCEL 6-1, LOTS 1 AND 2 PROPERTY LINE AND FOREST CONSERVATION INFORMATION.
- FOR DEED REFERENCE, SEE LIBER M.L.M. 892, FOLIO 458.
- CURRENT ZONING CLASSIFICATION - "RCD" (RESOURCE CONSERVATION DISTRICT), "AZD" (AGRICULTURAL ZONING DISTRICT) AND "EC" (EMPLOYMENT CENTER).
- THE PROPERTY IS PARTIALLY LOCATED WITHIN THE CHESAPEAKE BAY CRITICAL AREA DESIGNATION - RCA (RESOURCE CONSERVATION AREA).
- SITE IS PARTIALLY LOCATED WITHIN 100 YEAR FLOODPLAIN AS SCALED FROM FLOOD INSURANCE RATE MAP COMMUNITY PANEL No. 24029C213D (ZONE "A"), DATED JUNE 9, 2014.
- SOILS SHOWN HEREON ARE SCALED FROM MAPS LOCATED AT THE FOLLOWING WEBSITE: <http://websoilsurvey.nrcs.usda.gov> FOR KENT COUNTY. HYDRIC SOILS ONSITE ARE - Bs & Oh.
- THE PERENNIAL STREAM SHOWN HEREON IS SCALED FROM MARYLAND ENVIRONMENTAL RESOURCES AND LAND INFORMATION NETWORK WEBSITE <http://gisapps.dnr.state.md.us/Merlin/index.html>.
- THE NONTIDAL WETLANDS SHOWN HEREON ARE TAKEN FROM A REPORT PREPARED BY DAVIS & ASSOCIATES, ENVIRONMENTAL CONSULTING, LLC, DATE JUNE 17, 2022 AND OTHER MAPPED WETLANDS. DELINEATION SHOWN HEREON HAS BEEN SCALED FROM THE REPORT AND HAS NOT BEEN FIELD VERIFIED.
- STEEP SLOPES SHOWN HEREON ARE TAKEN FROM AERIAL TOPOGRAPHY FLOWN IN THE FALL OF 2013. VERTICAL DATUM IS NAVD 88.
- WOODLANDS WITHIN THE DEVELOPMENT AREA ARE THE RESULT OF A FIELD RUN SURVEY BY MICHAEL A. SCOTT, INC. IN FEBRUARY, 2023. WOODLANDS OUTSIDE THE DEVELOPMENT AREA ARE SCALED FROM ORTHO PHOTOS FLOWN IN THE FALL OF 2019 AND VERIFIED BY A SITE VISIT.
- THE PRESENCE OF ANY OTHER NATURAL RESOURCES (i.e., EROSION HAZARD AREAS, etc.) DO NOT EXIST ON THE SITE AS VERIFIED BY A SITE VISIT IN DECEMBER, 2018.
- THE MARYLAND DEPARTMENT OF NATURAL RESOURCES WILDLIFE AND HERITAGE SERVICE CONDUCTED AN ENVIRONMENTAL REVIEW OF THE SITE AND DETERMINED THAT THERE ARE NO OFFICIAL STATE OR FEDERAL RECORDS FOR LISTED PLANT OR ANIMAL SPECIES ON THE SITE. THE WILDLIFE AND HERITAGE SERVICE NOTED IN ITS RESPONSE LETTER, DATED JULY 20, 2022 THAT THE NO FORESTED AREA ON THE PROPERTY CONTAINS HABITAT FOR FOREST INTERIOR DWELLING BIRDS (FIDS).
- CONTOURS WITHIN THE DEVELOPMENT AREA ARE THE RESULT OF A FIELD RUN SURVEY BY MICHAEL A. SCOTT, INC. IN FEBRUARY, 2023. CONTOURS OUTSIDE THE DEVELOPMENT ARE THE RESULT OF AERIAL TOPOGRAPHY FLOWN IN THE FALL OF 2013. VERTICAL DATUM IS NAVD 88.
- NEW PUBLIC SEWER WILL BE UTILIZED FOR SEWAGE DISPOSAL. NEW PUBLIC WATER WILL BE UTILIZED FOR POTABLE WATER SUPPLY AND FIRE SUPPRESSION.
- SECURITY LIGHTING IS PROPOSED MOUNTED TO THE BUILDING. ADDITIONAL SITE LIGHTING PROPOSED IN THE PARKING LOT IS TO BE DARK SKY COMPATIBLE.
- STORMWATER MANAGEMENT FOR THE SITE HAS BEEN ADDRESSED VIA THE IMPLEMENTATION OF ENVIRONMENTAL SITE DESIGN (ESD) TO THE MAXIMUM EXTENT PRACTICABLE (MEP).
- ALL SIGNS SHALL COMPLY WITH THE CURRENT REGULATIONS OF KENT COUNTY CODE (SECTION 2. SIGNS, FOR THE EMPLOYMENT CENTER ZONE (EC).
- SITE REQUIREMENTS (INDUSTRIAL SUBDIVISION):**
MINIMUM LOT SIZE = N/A
FRONT BUILDING RESTRICTION LINE = 50' (NOT LOCATED ON "PRIMARY ROADS")
SIDE BUILDING RESTRICTION LINE
- 15' (PER "STANDARD" REQUIREMENTS)
- 50' (ALONG "PUBLIC ROADS")
REAR BUILDING RESTRICTION LINE
- 15' (PER "STANDARD" REQUIREMENTS)
SECURITY FENCE HEIGHT = 8'
MAXIMUM BUILDING SIZE = N/A
BUILDING HEIGHT PERMITTED = 60'
BUILDING HEIGHT PROPOSED = 50.5'

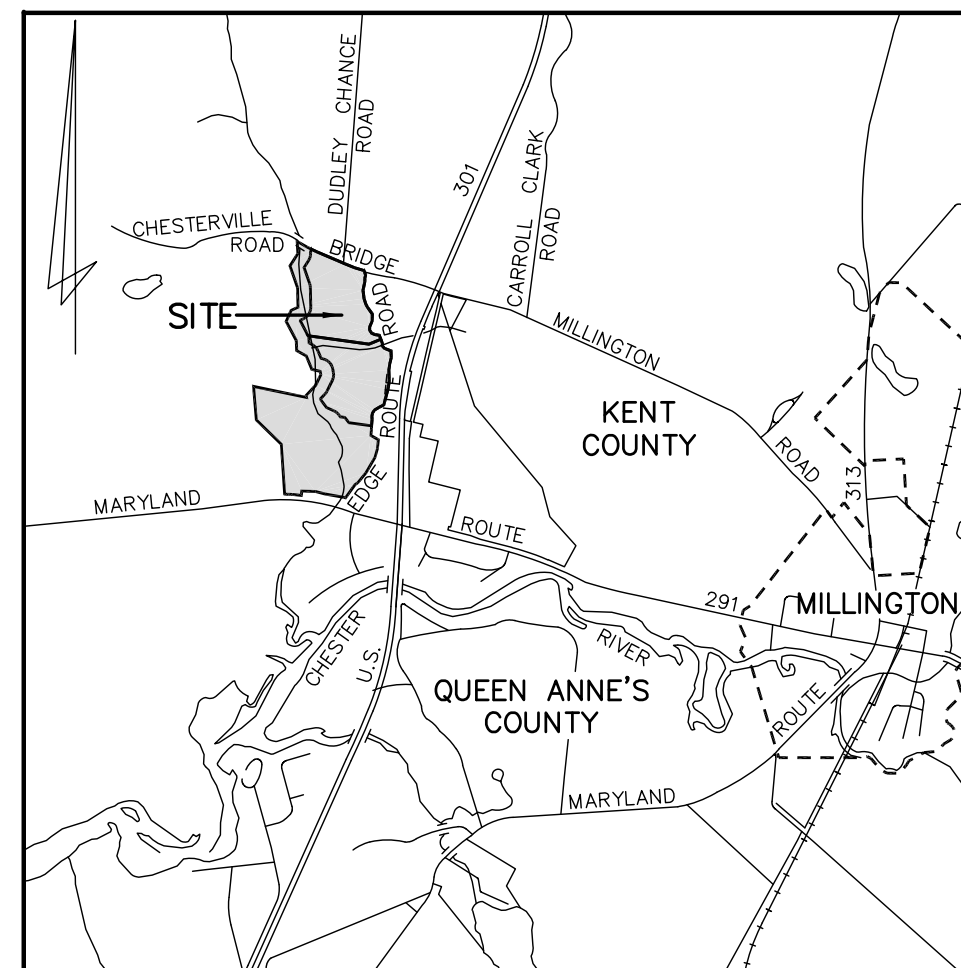
NOTE:
SEDIMENT AND EROSION CONTROL
WILL BE STRICTLY ENFORCED

OWNER:
MILLINGTON CROSSING
ASSOCIATES 1, LLC
c/o RUSS RICHARDSON
P.O. BOX 546
CHESTER HEIGHTS, PA 19017
PHONE No. 1-410-275-2714

SURVEYOR:
MICHAEL A. SCOTT, INC.
c/o MIKE SCOTT
400 SOUTH CROSS STREET
CHESTERTOWN, MARYLAND 21620
PHONE No. 1-410-778-2310

**DEVELOPER/
CONTRACT PURCHASER**
EVERTON INDUSTRIAL
c/o DAN GURAL
266 ATSON ROAD
MEDFORD, NEW JERSEY 08055
PHONE No. 1-609-929-6025

ENGINEER:
DMS & ASSOCIATES, LLC
c/o KEVIN J. SHEARON, P.E. LEED AP
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE No. 1-443-262-9130



VICINITY MAP
SCALE 1" = 3000'

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SHEET C-2.06 thru C-2.09	-	STORMWATER MANAGEMENT AND SEDIMENT & EROSION CONTROL PLANS
SHEET C-3.00	-	STORMWATER MANAGEMENT SPECIFICATIONS
SHEET C-3.01	-	TYPICAL STORMWATER MANAGEMENT SECTIONS
SHEET C-4.00	-	OVERALL UTILITY PLAN
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SHEET C-5.01	-	SITE DETAILS
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SHEET L-1.00	-	OVERALL LANDSCAPE PLAN
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SHEET L-1.04	-	LANDSCAPE DETAILS AND SPECIFICATIONS

GENERAL NOTES

- These drawings show information obtained from the best available records regarding pipes, conduits, telephone lines, and other structures and conditions which exist along the lines of the work both at and below the surface of the ground. The owner and engineer disclaim any responsibilities for the accuracy or completeness of said information being shown only for the convenience of the contractor, who must verify the information to his own satisfaction. If the contractor relies on said information, he does so at his own risk. The giving of the information on the contract drawings will not relieve the contractor of his obligations to support and protect all pipes, conduits, telephone lines, and other structures.
- The contractor shall notify the following two (2) weeks prior to the start of construction and shall coordinate construction with the utility companies involved:

Delmarva Power & Light Company ----- 1-800-375-7117
Miss Utility ----- 1-800-441-8355
DMS & Associates, LLC ----- 1-443-262-9130
Kent County Dept. Public Works ----- 1-410-778-7439
Kent Co. Sediment & Erosion Control Inspector - 1-410-778-7457
Kent Co. Dept. of Water & Wastewater ----- 1-410-778-3287
Maryland Department of the Environment ----- 1-410-631-3510
- All construction shall be marked for traffic and pedestrian safety.
- The Contractor shall provide all equipment, labor, and materials for any miscellaneous or test pit excavations required by the Engineer.
- The owner is responsible for the acquisition of all easements, both permanent and temporary.
- The Contractor assumes all responsibility for any deviations from these plans unless said deviation is approved by the Engineer. Contractor shall receive written permission from the Engineer if a deviation of the plans is necessary.
- All disturbed areas shall be smoothly graded to provide positive drainage in the direction of flow arrows herein and stabilized with topsoil, seed, and mulch. If settlement occurs, topsoil, seeding, and mulching shall be repeated until settlement subsides (See Erosion and Sediment Control Specifications).
- All trash, trees, and underbrush are to be cleared and removed off site to an approved dump site by the contractor.
- Any excess excavated material shall be removed off site by the contractor or material shall be placed on site as directed by the Engineer and/or Owner.
- Any existing survey monumentation that is disturbed during construction shall be replaced by a registered surveyor at the contractor's expense.
- The Contractor shall conduct his work in easements so that there will be a minimum of disturbance of the properties crossed. Any disturbed areas shall be restored to its original condition.
- All materials and methods of construction shall conform to the drawings, specifications, local building codes, and the standard specifications and details of Kent County.
- All drainage structures and swales shall remain functional during construction unless otherwise indicated on the plans.
- All water valves, boxes and hydrants shall be set and adjusted to finish grade.
- Wherever sewer or water mains or services run parallel to each other, a minimum horizontal separation of 10' shall be provided.
- Minimum cover over the sewer main shall be 42".
- All concrete used for utility work shall be in accordance with MD SHA Standards and Specifications for Mix No. 2.
- All paving materials and methods shall be in accordance with the latest MD SHA Standards and Specifications and be supplied by a State Certified plant.
- Trenches shall not remain open overnight. If it is necessary for trenches to remain open, steel plates capable of bearing traffic shall be used to completely cover the trench openings.
- Erosion and Sediment Control will be strictly enforced by the Kent County Sediment and Erosion Control Inspector.

STATEMENT OF PURPOSE AND INTENT

THE SITE IS LOCATED ON THE WEST SIDE OF EDGE ROAD IN THE U.S. ROUTE 301 CORRIDOR NEAR THE TOWN OF MILLINGTON, MARYLAND. THE SITE IS CURRENTLY VACANT. THE INTENT OF THE PRELIMINARY SITE PLAN IS TO PROPOSE A MANUFACTURING/WAREHOUSE BUILDING AND ITS ASSOCIATED PARKING ON LOT 1 OF THE LANDS OF MILLINGTON CROSSING ASSOCIATES 1, LLC.

THE PURPOSE OF THIS PRELIMINARY SITE PLAN IS TO RECEIVE APPROVAL FOR PROPOSED DEVELOPMENT FROM THE KENT COUNTY PLANNING COMMISSION.

CONCRETE MONUMENT COORDINATE TABLE

No.	DESCRIPTION	NORTHING	EASTING	ELEVATION
(1)	CONC. MONUMENT SET	587604.1651	1633543.0798	-----
(2)	CONC. MONUMENT SET	587234.9796	1633519.5611	-----
(3)	CONC. MONUMENT SET	586883.3676	1633645.3015	-----

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS

APPROVED:

KENT SOIL AND WATER CONSERVATION DISTRICT _____ DATE _____

NOTE: KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

DEVELOPERS CERTIFICATION

I (WE) CERTIFY THAT:

A. ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE IN ACCORDANCE WITH THIS SEDIMENT AND EROSION CONTROL PLAN AND/OR STORMWATER MANAGEMENT PLAN, AND FURTHER, AUTHORIZED THE RIGHT OF ENTRY FOR PERIODIC ONSITE EVALUATION BY THE KENT SOIL AND WATER CONSERVATION DISTRICT SEDIMENT CONTROL INSPECTOR OR MARYLAND DEPARTMENT OF THE ENVIRONMENT.

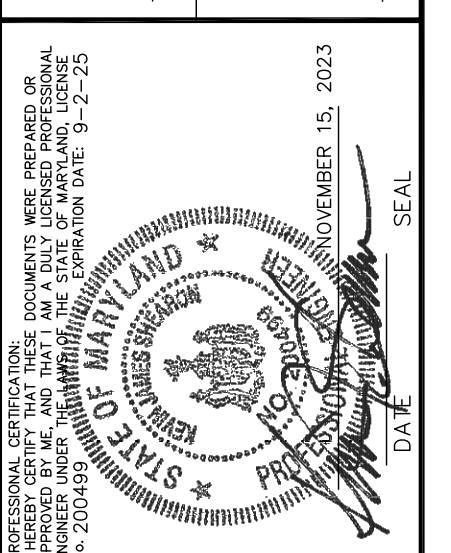
B. ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT THE DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT.

C. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN, ANY CHANGE MADE IN THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL PLACE RESPONSIBILITY FOR SAID CHANGE ON THE CONTRACTOR OR SUBCONTRACTOR.

SIGNATURE _____ DATE _____

ADDRESS _____ CARD No. _____

PHONE No. _____



DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN,
ENVIRONMENTAL SERVICES & SURVEYING
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 1-443-262-9130
FAX: 1-443-262-9148

DATE	REVISION	PER TAC COMMENTS	PER MOD COMMENTS
10-29-23			
11-15-23			

TITLE SHEET
FOR A
MANUFACTURING/WAREHOUSE BUILDING
ON LOT 1, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES 1, LLC
FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6-1

SCALE AS SHOWN
DATE MARCH '23
JOB No. 2021165
DRAWN BY WJM
FOLDER Ref. 31-2021165
DESIGNED BY KJS
SHEET No. - C-1.00
CADD FILE - 21165C100

SITE STATISTICS

OVERALL SITE STATISTICS	
GROSS SITE AREA	= 114.499 ac.±
NON-CRITICAL AREA	= 110.454 ac.±
CRITICAL AREA	= 4.045 ac.±
GROSS SITE AREA	
ZONE (EC)	= 81.307 ac.±
ZONE (AZD)	= 25.787 ac.±
ZONE (RCD)	= 7.406 ac.±
AREA WITHIN ZONE (EC)	
NON-CRITICAL AREA	= 81.307 ac.±
CRITICAL AREA	= 0.000 ac.±
AREA WITHIN ZONE (RCD)	
NON-CRITICAL AREA	= 7.406 ac.±
CRITICAL AREA	= 3.361 ac.±
REMAINING PARCEL 6-1 SITE STATISTICS	
GROSS SITE AREA	= 73.291 ac.±
NON-CRITICAL AREA	= 69.246 ac.±
CRITICAL AREA	= 4.045 ac.±
GROSS SITE AREA	
ZONE (EC)	= 40.099 ac.±
ZONE (AZD)	= 25.787 ac.±
ZONE (RCD)	= 7.406 ac.±
AREA WITHIN ZONE (EC)	
NON-CRITICAL AREA	= 40.099 ac.±
CRITICAL AREA	= 0.000 ac.±
AREA WITHIN ZONE (RCD)	
NON-CRITICAL AREA	= 7.406 ac.±
CRITICAL AREA	= 3.361 ac.±



PERIMETER BOUNDARY COURSES AND DISTANCES

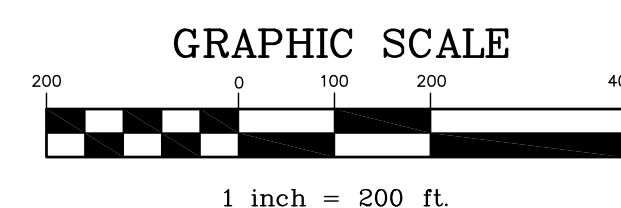
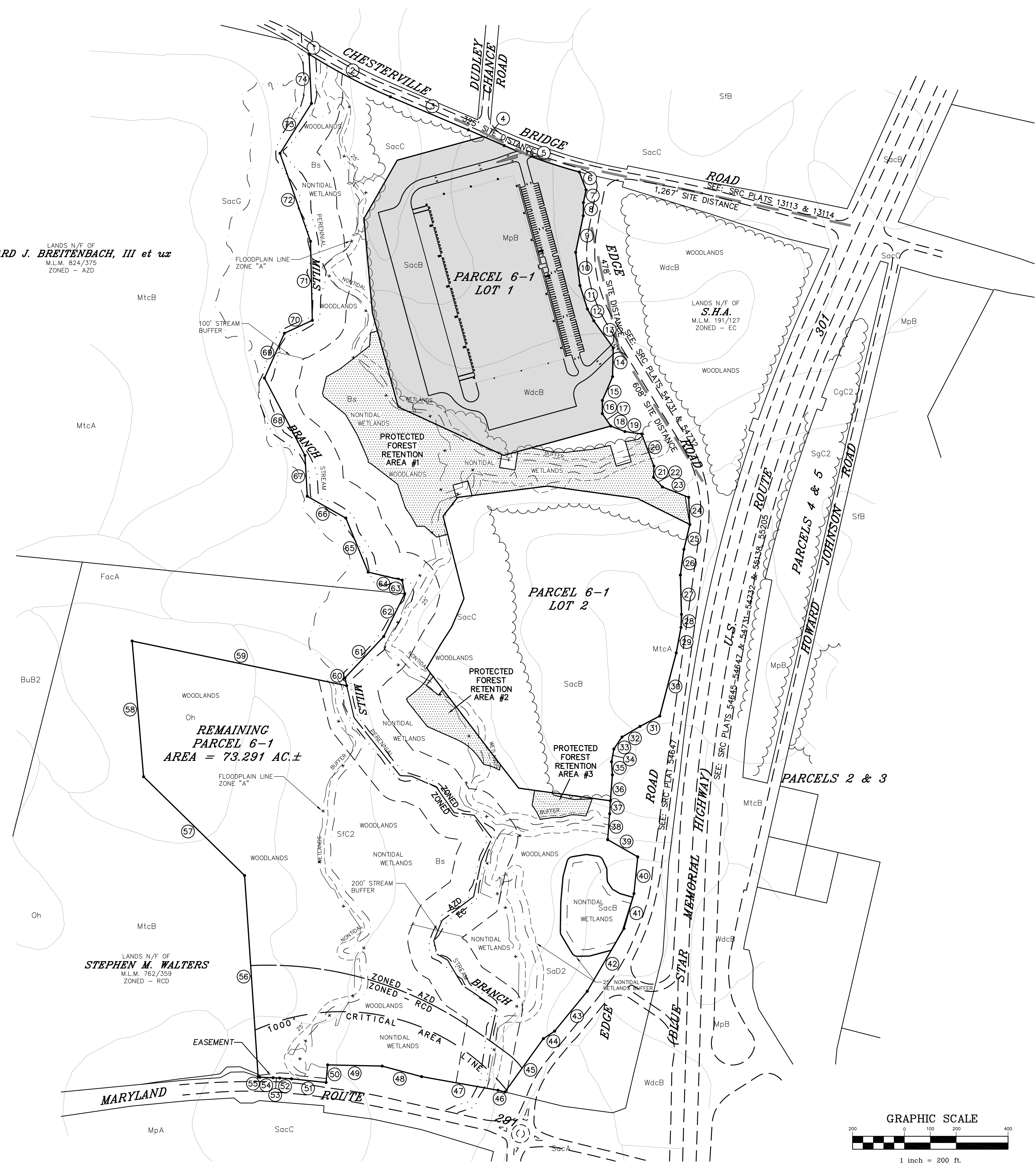
LINE	BEARING	DISTANCE
1	S 57°41'34" E	1.51'
2	S 62°21'18" E	352.90'
R = 2182.12' 353.28'		
3	S 66°59'35" E	326.95'
4	S 66°21'21" E	150.72'
5	S 70°39'12" E	307.87'
R = 2052.82' 307.96'		
6	S 20°30'34" E	73.87'
7	S 11°54'11" W	50.00'
8	S 00°35'35" W	50.99'
9	S 11°42'18" W	144.01'
10	S 07°20'51" E	129.32'
11	S 17°37'45" E	94.97'
12	S 28°15'11" E	51.90'
13	S 35°41'34" E	128.29'
14	S 01°15'22" W	111.22'
15	S 23°11'27" W	99.87'
16	S 00°07'11" W	50.77'
17	S 33°58'49" E	58.03'
18	S 68°40'47" E	58.60'
19	S 81°58'30" E	65.30'
20	S 20°54'55" E	133.03'
21	S 01°54'51" W	43.01'
22	S 42°19'28" E	50.50'
23	S 68°28'35" E	109.20'
24	S 02°01'44" E	105.02'
25	S 13°28'01" W	98.49'
26	S 07°48'59" W	100.00'
27	S 01°38'45" E	152.07'
28	S 02°06'21" W	50.25'
29	S 10°40'44" W	100.13'
30	S 14°39'33" W	251.79'
31	S 62°16'44" W	86.02'
32	S 59°22'45" W	80.43'
33	S 34°52'53" W	55.90'
34	S 10°06'25" W	50.04'
35	S 03°29'37" E	50.99'
36	S 04°22'58" W	100.18'
37	S 03°14'33" W	50.16'
38	S 04°22'58" W	100.18'
39	S 60°13'23" E	133.70'
40	S 05°56'11" W	142.56'
41	S 15°54'12" W	140.25'
42	S 30°18'58" W	280.31'
43	S 39°20'21" W	199.09'
44	S 68°03'57" W	52.20'
45	S 35°48'22" W	253.75'
46	N 76°14'08" W	27.73'
47	N 79°51'28" W	299.63'
48	N 75°01'11" W	157.13'
49	N 88°44'55" W	210.47'
50	S 04°59'46" W	68.07'
51	N 84°00'32" W	134.29'
52	N 86°13'17" W	45.78'
53	N 87°05'47" W	25.44'
54	N 88°02'02" W	50.87'
55	N 71°20'33" W	7.19'
56	N 03°51'09" W	778.07'
57	N 45°37'09" W	545.42'
58	N 04°49'35" W	525.33'
59	S 78°14'39" E	845.55'
60	N 11°59'39" W	30.93'
61	N 43°08'31" E	218.92'
62	N 26°05'41" E	183.60'
63	N 10°37'15" W	53.45'
64	N 78°44'35" W	134.76'
65	N 22°27'55" W	225.56'
66	N 60°27'05" W	171.11'
67	N 03°08'55" W	158.05'
68	N 27°39'55" W	336.87'
69	N 24°01'05" E	189.38'
70	N 65°08'05" E	118.58'
71	N 01°18'25" W	305.01'
72	N 19°07'05" W	359.26'
73	N 32°10'35" E	228.01'
74	N 02°50'27" W	190.14'

LEGEND

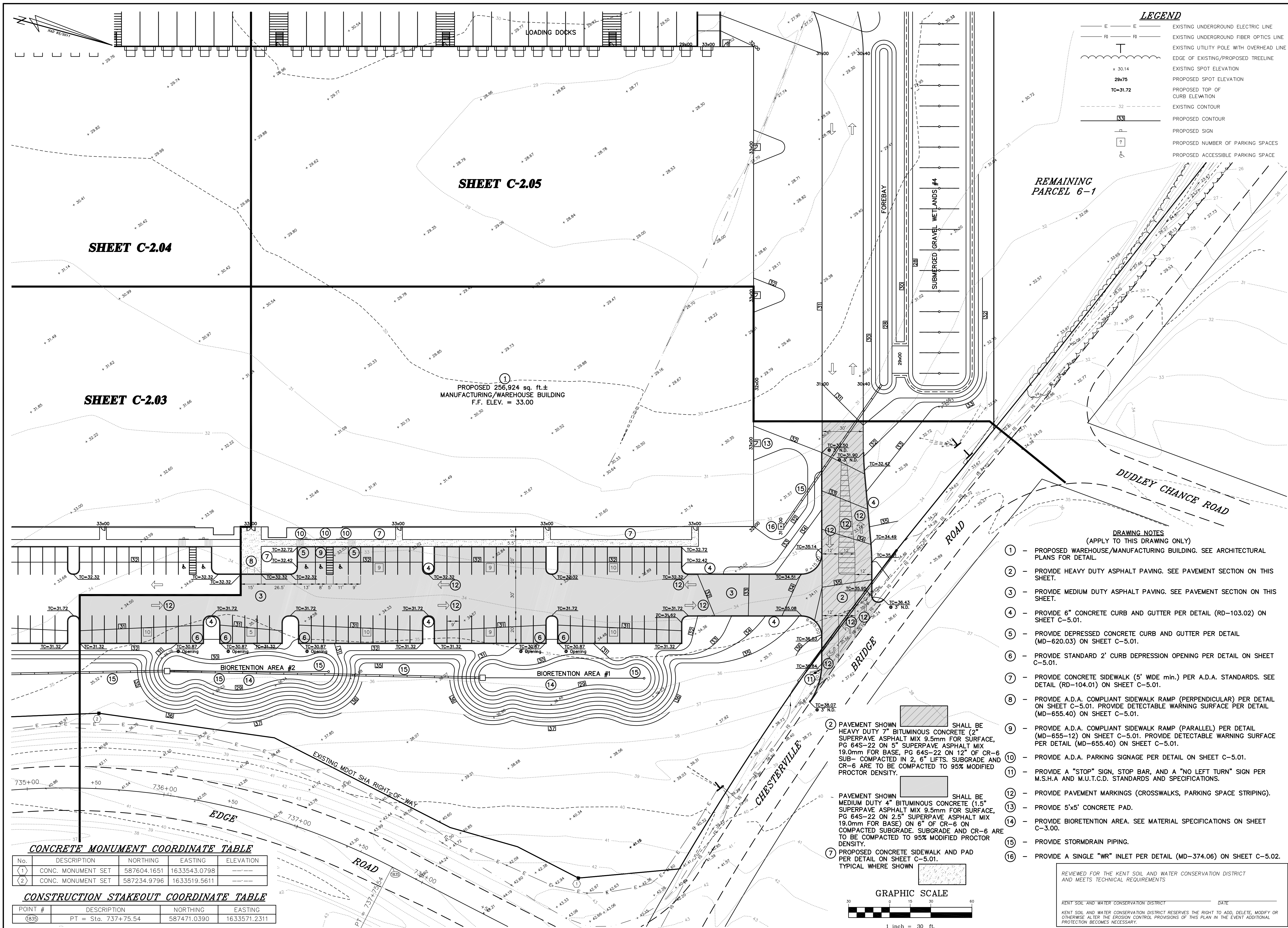
- DEED POINT (UNLESS OTHERWISE NOTED)
- ZONING LINE
- EDGE OF EXISTING/PROPOSED WOODLINE
- FLOOD PLAIN LINE
- PERENNIAL STREAM
- NONTIDAL WETLAND MARGIN
- 25' BUFFER FROM NONTIDAL WETLANDS BUFFER
- SOILS LINE AND TYPE

LANDS N/F OF
EDWARD J. BREITENBACH, III et ux
M.L.M. 824/375
ZONED - AZD

LANDS N/F OF
STEPHEN M. WALTERS
M.L.M. 762/359
ZONED - RCD



<p>DATE: MARCH '23</p> <p>JOB No.: 2021165</p> <p>FOLDER Ref.: 31-2021165</p> <p>SHEET No.: C-2.00</p> <p>CADD FILE - 21165C200</p>	<p>SCALE: 1" = 200'</p> <p>DRAWN BY: WJM</p> <p>DESIGNED BY: KJS</p>	<p>OVERALL SITE PLAN FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 1, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC</p> <p>FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON</p> <p>TAX MAP - 31, GRID - 1E, PARCEL - 6-1</p>	<p>REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>PER TAC COMMENTS</th> </tr> </thead> <tbody> <tr> <td>10-19-23</td> <td></td> </tr> <tr> <td>5-24-24</td> <td></td> </tr> </tbody> </table>	DATE	PER TAC COMMENTS	10-19-23		5-24-24		<p>DAVIS, MOORE, SHEARON & ASSOCIATES, LLC ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING</p> <p>P.O. BOX 80 CENTREVILLE, MARYLAND 21617 PHONE: 1-443-262-9148 FAX: 1-443-262-9148</p>	<p>STATE OF MARYLAND PROFESSIONAL ENGINEER S. H. A. M.L.M. 191/127 ZONED - EC</p> <p>OCTOBER 9, 2023</p> <p>SEAL</p>	<p>WEST COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>WEST COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>WEST COUNTY HEALTH DEPARTMENT</p> <p>WEST COUNTY SOLID AND WATER CONSERVATION DISTRICT</p>
DATE	PER TAC COMMENTS											
10-19-23												
5-24-24												



LEGEND

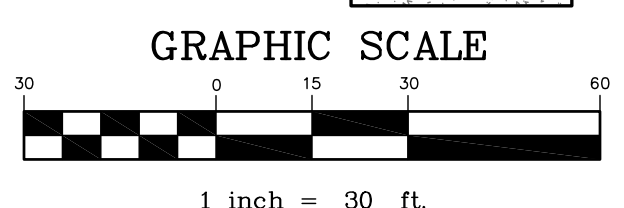
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING UNDERGROUND FIBER OPTICS LINE
	EXISTING UTILITY POLE WITH OVERHEAD LINE
	EDGE OF EXISTING/PROPOSED TREE LINE
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SIGN
	PROPOSED NUMBER OF PARKING SPACES
	PROPOSED ACCESSIBLE PARKING SPACE

- DRAWING NOTES**
(APPLY TO THIS DRAWING ONLY)
- PROPOSED WAREHOUSE/MANUFACTURING BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.
 - PROVIDE HEAVY DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
 - PROVIDE MEDIUM DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
 - PROVIDE 6" CONCRETE CURB AND GUTTER PER DETAIL (RD-103.02) ON SHEET C-5.01.
 - PROVIDE DEPRESSED CONCRETE CURB AND GUTTER PER DETAIL (MD-620.03) ON SHEET C-5.01.
 - PROVIDE STANDARD 2' CURB DEPRESSION OPENING PER DETAIL ON SHEET C-5.01.
 - PROVIDE CONCRETE SIDEWALK (5' WIDE MIN.) PER A.D.A. STANDARDS. SEE DETAIL (RD-104.01) ON SHEET C-5.01.
 - PROVIDE A.D.A. COMPLIANT SIDEWALK RAMP (PERPENDICULAR) PER DETAIL ON SHEET C-5.01. PROVIDE DETECTABLE WARNING SURFACE PER DETAIL (MD-655.40) ON SHEET C-5.01.
 - PROVIDE A.D.A. COMPLIANT SIDEWALK RAMP (PARALLEL) PER DETAIL (MD-655-12) ON SHEET C-5.01. PROVIDE DETECTABLE WARNING SURFACE PER DETAIL (MD-655.40) ON SHEET C-5.01.
 - PROVIDE A.D.A. PARKING SIGNAGE PER DETAIL ON SHEET C-5.01.
 - PROVIDE A "STOP" SIGN, STOP BAR, AND A "NO LEFT TURN" SIGN PER M.S.H.A AND M.U.T.C.D. STANDARDS AND SPECIFICATIONS.
 - PROVIDE PAVEMENT MARKINGS (CROSSWALKS, PARKING SPACE STRIPING).
 - PROVIDE 5'x5' CONCRETE PAD.
 - PROVIDE BIORETENTION AREA. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00.
 - PROVIDE STORMDRAIN PIPING.
 - PROVIDE A SINGLE "WR" INLET PER DETAIL (MD-374.06) ON SHEET C-5.02.

PAVEMENT SHOWN SHALL BE HEAVY DUTY 7" BITUMINOUS CONCRETE (2" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE, PG 64S-22 ON 12" OF CR-6 SUB-COMPACTED IN 2, 6" LIFTS. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

PAVEMENT SHOWN SHALL BE MEDIUM DUTY 4" BITUMINOUS CONCRETE (1.5" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 2.5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE) ON 6" OF CR-6 ON COMPACTED SUBGRADE. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

PROPOSED CONCRETE SIDEWALK AND PAD PER DETAIL ON SHEET C-5.01. TYPICAL WHERE SHOWN



REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT DATE

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

SHEET C-2.04

SHEET C-2.05

SHEET C-2.03

PROPOSED 256,924 sq. ft.±
MANUFACTURING/WAREHOUSE BUILDING
F.F. ELEV. = 33.00

CONCRETE MONUMENT COORDINATE TABLE

No.	DESCRIPTION	NORTHING	EASTING	ELEVATION
(1)	CONC. MONUMENT SET	587604.1651	1633543.0798	
(2)	CONC. MONUMENT SET	587234.9796	1633519.5611	

CONSTRUCTION STAKEOUT COORDINATE TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
(835)	PT = Sta. 737+75.54	587471.0390	1633571.2311

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING

10000 WOODBURN ROAD, SUITE 200, GREENBELT, MD 20884
P.O. BOX 80, CENTREVILLE, MARYLAND 21617
PHONE: 410-326-1148 FAX: 410-326-9148

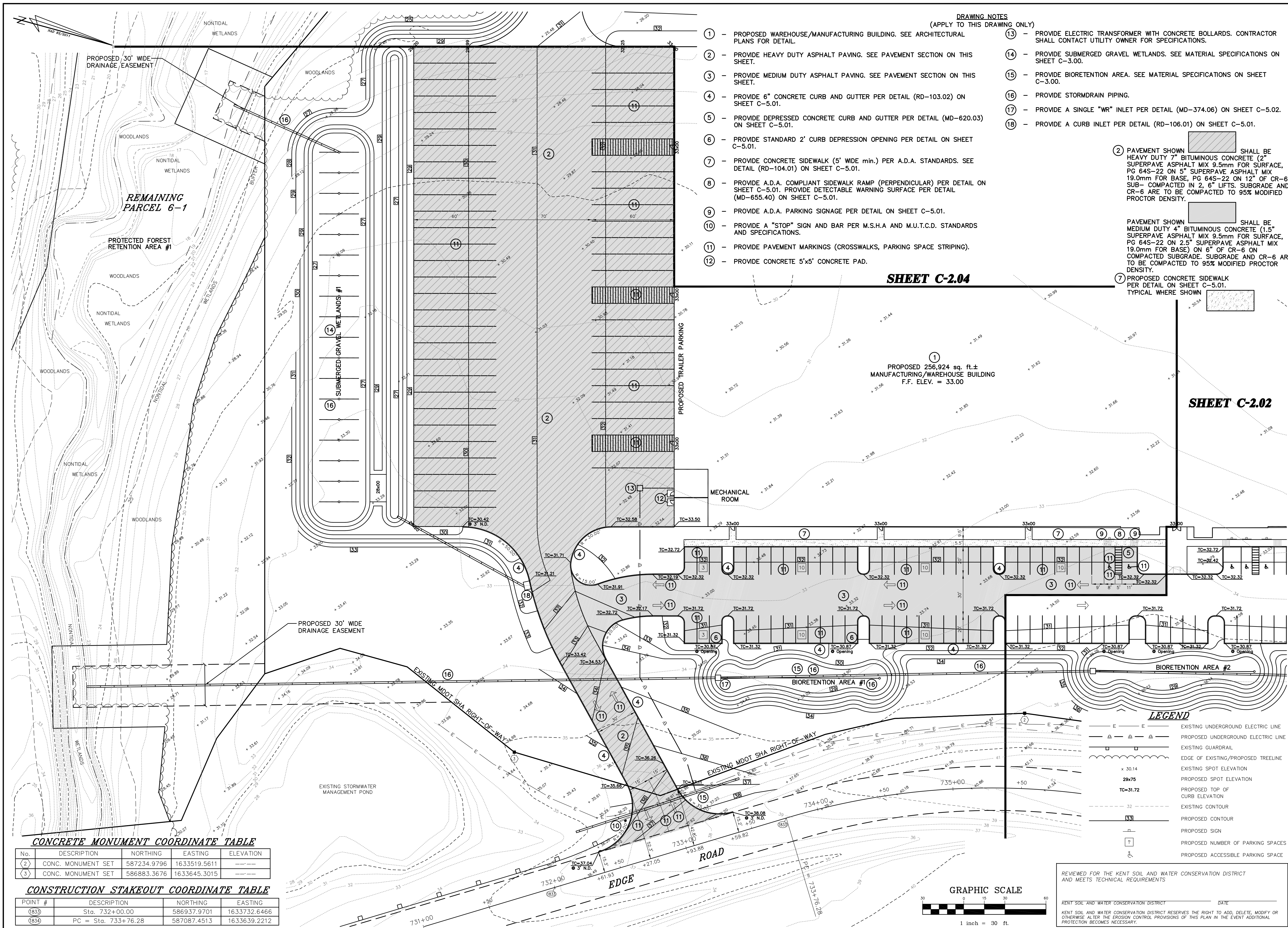
DATE: MARCH '23 SCALE: 1" = 30'
JOB NO.: 2021165 DRAWN BY: WJM
FOLDER REF.: 31-2021165 DESIGNED BY: KJS
SHEET NO.: C-2.02
CADD FILE: 21165C202

REVISION PER TAC COMMENTS DATE

10-19-23
11-15-23

SITE AND GRADING PLAN FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 1, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING



- DRAWING NOTES**
(APPLY TO THIS DRAWING ONLY)
- ① - PROPOSED WAREHOUSE/MANUFACTURING BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.
 - ② - PROVIDE HEAVY DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
 - ③ - PROVIDE MEDIUM DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
 - ④ - PROVIDE 6" CONCRETE CURB AND GUTTER PER DETAIL (RD-103.02) ON SHEET C-5.01.
 - ⑤ - PROVIDE DEPRESSED CONCRETE CURB AND GUTTER PER DETAIL (MD-620.03) ON SHEET C-5.01.
 - ⑥ - PROVIDE STANDARD 2' CURB DEPRESSION OPENING PER DETAIL ON SHEET C-5.01.
 - ⑦ - PROVIDE CONCRETE SIDEWALK (5' WIDE MIN.) PER A.D.A. STANDARDS. SEE DETAIL (RD-104.01) ON SHEET C-5.01.
 - ⑧ - PROVIDE A.D.A. COMPLIANT SIDEWALK RAMP (PERPENDICULAR) PER DETAIL ON SHEET C-5.01. PROVIDE DETECTABLE WARNING SURFACE PER DETAIL (MD-655.40) ON SHEET C-5.01.
 - ⑨ - PROVIDE A.D.A. PARKING SIGNAGE PER DETAIL ON SHEET C-5.01.
 - ⑩ - PROVIDE A "STOP" SIGN AND BAR PER M.S.H.A. AND M.U.T.C.D. STANDARDS AND SPECIFICATIONS.
 - ⑪ - PROVIDE PAVEMENT MARKINGS (CROSSWALKS, PARKING SPACE STRIPING).
 - ⑫ - PROVIDE CONCRETE 5'x5' CONCRETE PAD.
 - ⑬ - PROVIDE ELECTRIC TRANSFORMER WITH CONCRETE BOLLARDS. CONTRACTOR SHALL CONTACT UTILITY OWNER FOR SPECIFICATIONS.
 - ⑭ - PROVIDE SUBMERGED GRAVEL WETLANDS. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00.
 - ⑮ - PROVIDE BIORETENTION AREA. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00.
 - ⑯ - PROVIDE STORMDRAIN PIPING.
 - ⑰ - PROVIDE A SINGLE "WR" INLET PER DETAIL (MD-374.06) ON SHEET C-5.02.
 - ⑱ - PROVIDE A CURB INLET PER DETAIL (RD-106.01) ON SHEET C-5.01.

② PAVEMENT SHOWN SHALL BE HEAVY DUTY 7" BITUMINOUS CONCRETE (2" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE, PG 64S-22 ON 12" OF CR-6 SUB-COMPACTED IN 2, 6" LIFTS. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

⑦ PAVEMENT SHOWN SHALL BE MEDIUM DUTY 4" BITUMINOUS CONCRETE (1.5" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 2.5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE) ON 6" OF CR-6 ON COMPACTED SUBGRADE. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

SHEET C-2.04

SHEET C-2.02

① PROPOSED 256,924 sq. ft.± MANUFACTURING/WAREHOUSE BUILDING
F.F. ELEV. = 33.00

CONCRETE MONUMENT COORDINATE TABLE

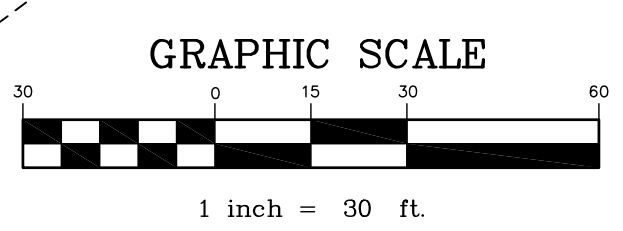
No.	DESCRIPTION	NORTHING	EASTING	ELEVATION
②	CONC. MONUMENT SET	587234.9796	1633519.5611	---
③	CONC. MONUMENT SET	586883.3676	1633645.3015	---

CONSTRUCTION STAKEOUT COORDINATE TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
⑧33	Sta. 732+00.00	586937.9701	1633732.6466
⑧34	PC = Sta. 733+76.28	587087.4513	1633639.2212

LEGEND

	EXISTING UNDERGROUND ELECTRIC LINE
	PROPOSED UNDERGROUND ELECTRIC LINE
	EXISTING GUARDRAIL
	EDGE OF EXISTING/PROPOSED TREELINE
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SIGN
	PROPOSED NUMBER OF PARKING SPACES
	PROPOSED ACCESSIBLE PARKING SPACE



REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

DATE: MARCH '23
JOB No.: 2021165
DRAWN BY: WJM
DESIGNED BY: KJS
DATE: _____

REVISION

DATE	REVISION
10-19-23	PER TAC COMMENTS
11-15-23	PER MDT COMMENTS
5-24-24	PER TAC COMMENTS

SITE AND GRADING PLAN

FOR A
MANUFACTURING/WAREHOUSE BUILDING
ON LOT 1, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6-1

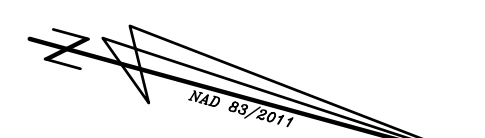
SCALE: 1" = 30'

SHEET No. - C-2.03

CADD FILE - 21165C203

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 410-291-1100
FAX: 410-291-1148

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY HEALTH DEPARTMENT



DRAWING NOTES
(APPLY TO THIS DRAWING ONLY)

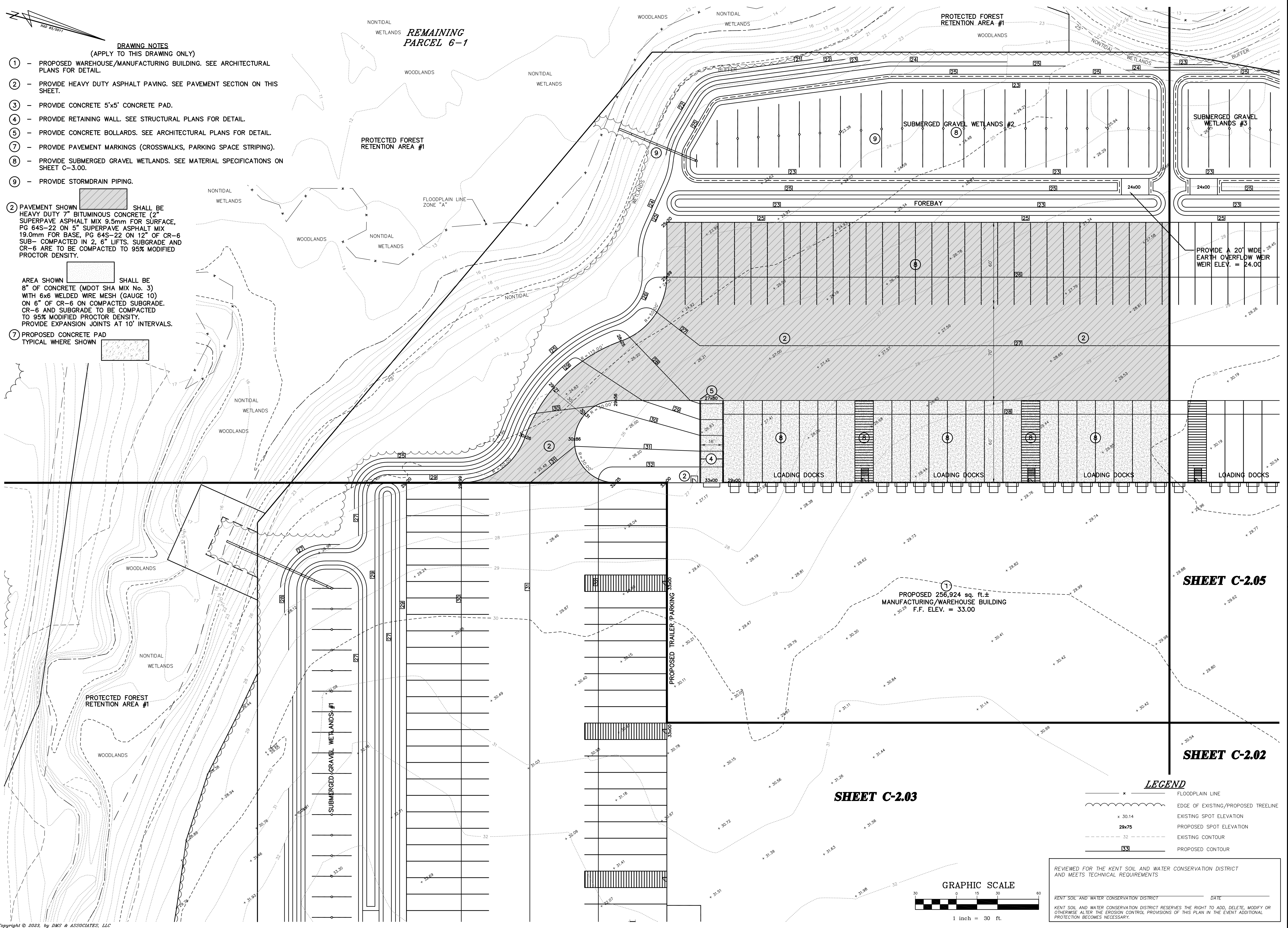
- ① - PROPOSED WAREHOUSE/MANUFACTURING BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.
- ② - PROVIDE HEAVY DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
- ③ - PROVIDE CONCRETE 5'x5' CONCRETE PAD.
- ④ - PROVIDE RETAINING WALL. SEE STRUCTURAL PLANS FOR DETAIL.
- ⑤ - PROVIDE CONCRETE BOLLARDS. SEE ARCHITECTURAL PLANS FOR DETAIL.
- ⑦ - PROVIDE PAVEMENT MARKINGS (CROSSWALKS, PARKING SPACE STRIPING).
- ⑧ - PROVIDE SUBMERGED GRAVEL WETLANDS. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00.
- ⑨ - PROVIDE STORMDRAIN PIPING.

② PAVEMENT SHOWN SHALL BE HEAVY DUTY 7" BITUMINOUS CONCRETE (2" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE, PG 64S-22 ON 12" OF CR-6 SUB- COMPACTED IN 2, 6" LIFTS. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

AREA SHOWN SHALL BE 8" OF CONCRETE (MDOT SHA MIX No. 3) WITH 6x6 WELDED WIRE MESH (GAUGE 10) ON 6" OF CR-6 ON COMPACTED SUBGRADE. CR-6 AND SUBGRADE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. PROVIDE EXPANSION JOINTS AT 10' INTERVALS.

⑦ PROPOSED CONCRETE PAD TYPICAL WHERE SHOWN

REMAINING PARCEL 6-1



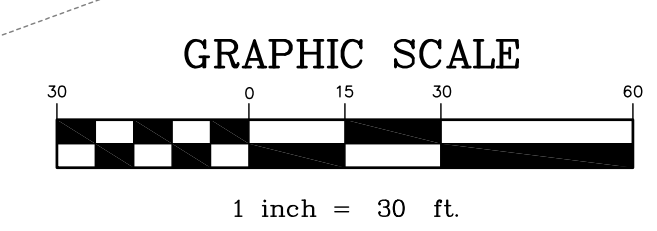
SHEET C-2.05

SHEET C-2.02

SHEET C-2.03

LEGEND

	FLOODPLAIN LINE
	EDGE OF EXISTING/PROPOSED TREELINE
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	EXISTING CONTOUR
	PROPOSED CONTOUR

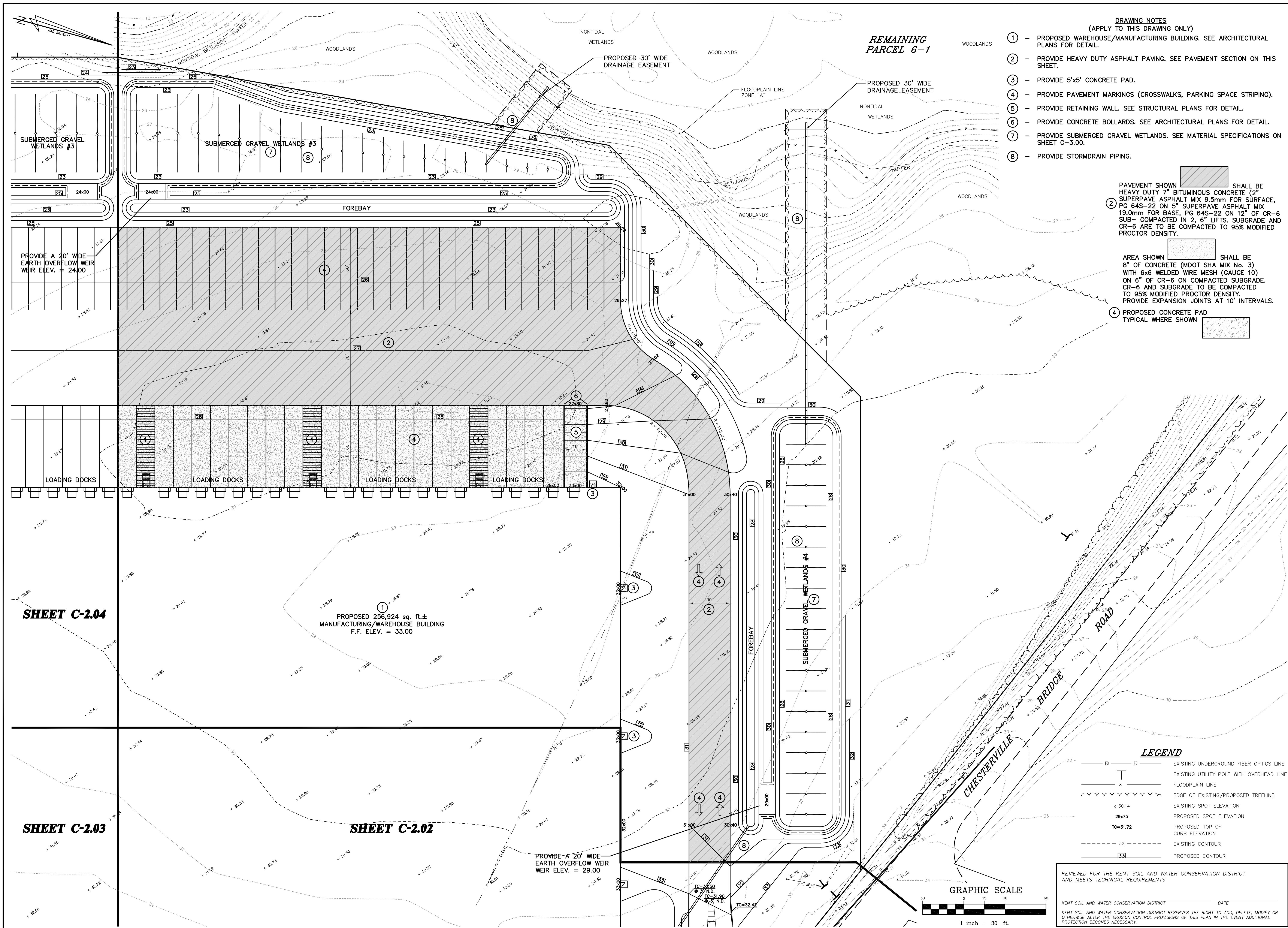


REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT

DATE _____

<p>DATE: MARCH '23</p> <p>JOB NO.: 2021165</p> <p>FOLDER #4: 31-2021165</p> <p>SHEET No.: C-2.04</p> <p>CADD FILE - 21165C204</p>	<p>SCALE: 1" = 30'</p> <p>DRAWN BY: WJM</p> <p>DESIGNED BY: KJS</p>	<p>SITE AND GRADING PLAN FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 1, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC</p> <p>FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON</p> <p>TAX MAP - 31, GRID - 1E, PARCEL - 6-1</p>	<p>REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>10-19-23</td><td></td><td>PER TAC COMMENTS</td></tr> <tr><td>5-24-24</td><td></td><td>PER TAC COMMENTS</td></tr> </table>	NO.	DATE	DESCRIPTION	10-19-23		PER TAC COMMENTS	5-24-24		PER TAC COMMENTS	<p>DATE: OCTOBER 9, 2023</p> <p>BY: [Signature]</p> <p>SEAL: [Professional Seal]</p>	<p>DAVIS, MOORE, SHEARON & ASSOCIATES, LLC</p> <p>ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING</p> <p>P.O. BOX 80 CENTREVILLE, MARYLAND 21617 PHONE: 1-443-262-9148 FAX: 1-443-262-9148</p>	<p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>KENT COUNTY DEPARTMENT OF PUBLIC WORKS</p> <p>KENT COUNTY HEALTH DEPARTMENT</p> <p>KENT SOIL AND WATER CONSERVATION DISTRICT</p>
NO.	DATE	DESCRIPTION													
10-19-23		PER TAC COMMENTS													
5-24-24		PER TAC COMMENTS													



REMAINING PARCEL 6-1

- DRAWING NOTES**
(APPLY TO THIS DRAWING ONLY)
- ① - PROPOSED WAREHOUSE/MANUFACTURING BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.
 - ② - PROVIDE HEAVY DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
 - ③ - PROVIDE 5'x5' CONCRETE PAD.
 - ④ - PROVIDE PAVEMENT MARKINGS (CROSSWALKS, PARKING SPACE STRIPING).
 - ⑤ - PROVIDE RETAINING WALL. SEE STRUCTURAL PLANS FOR DETAIL.
 - ⑥ - PROVIDE CONCRETE BOLLARDS. SEE ARCHITECTURAL PLANS FOR DETAIL.
 - ⑦ - PROVIDE SUBMERGED GRAVEL WETLANDS. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00.
 - ⑧ - PROVIDE STORMDRAIN PIPING.

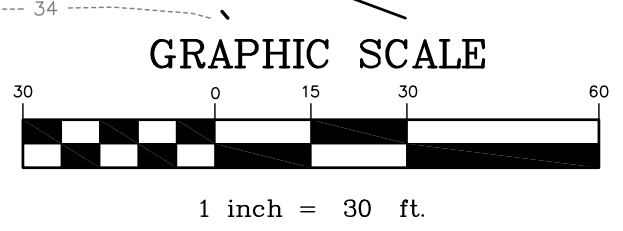
PAVEMENT SHOWN SHALL BE HEAVY DUTY 3" BITUMINOUS CONCRETE (2" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE, PG 64S-22 ON 12" OF CR-6 SUB-COMPACTED IN 2, 6" LIFTS. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

AREA SHOWN SHALL BE 8" OF CONCRETE (MDOT SHA MIX No. 3) WITH 6x6 WELDED WIRE MESH (GAUGE 10) ON 6" OF CR-6 ON COMPACTED SUBGRADE. CR-6 AND SUBGRADE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. PROVIDE EXPANSION JOINTS AT 10' INTERVALS.

④ PROPOSED CONCRETE PAD TYPICAL WHERE SHOWN

LEGEND

— FB — FB	EXISTING UNDERGROUND FIBER OPTICS LINE
— T —	EXISTING UTILITY POLE WITH OVERHEAD LINE
—	FLOODPLAIN LINE
—	EDGE OF EXISTING/PROPOSED TREELINE
x 30.14	EXISTING SPOT ELEVATION
29.75	PROPOSED SPOT ELEVATION
TC=31.72	PROPOSED TOP OF CURB ELEVATION
- - - -	EXISTING CONTOUR
—	PROPOSED CONTOUR



REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

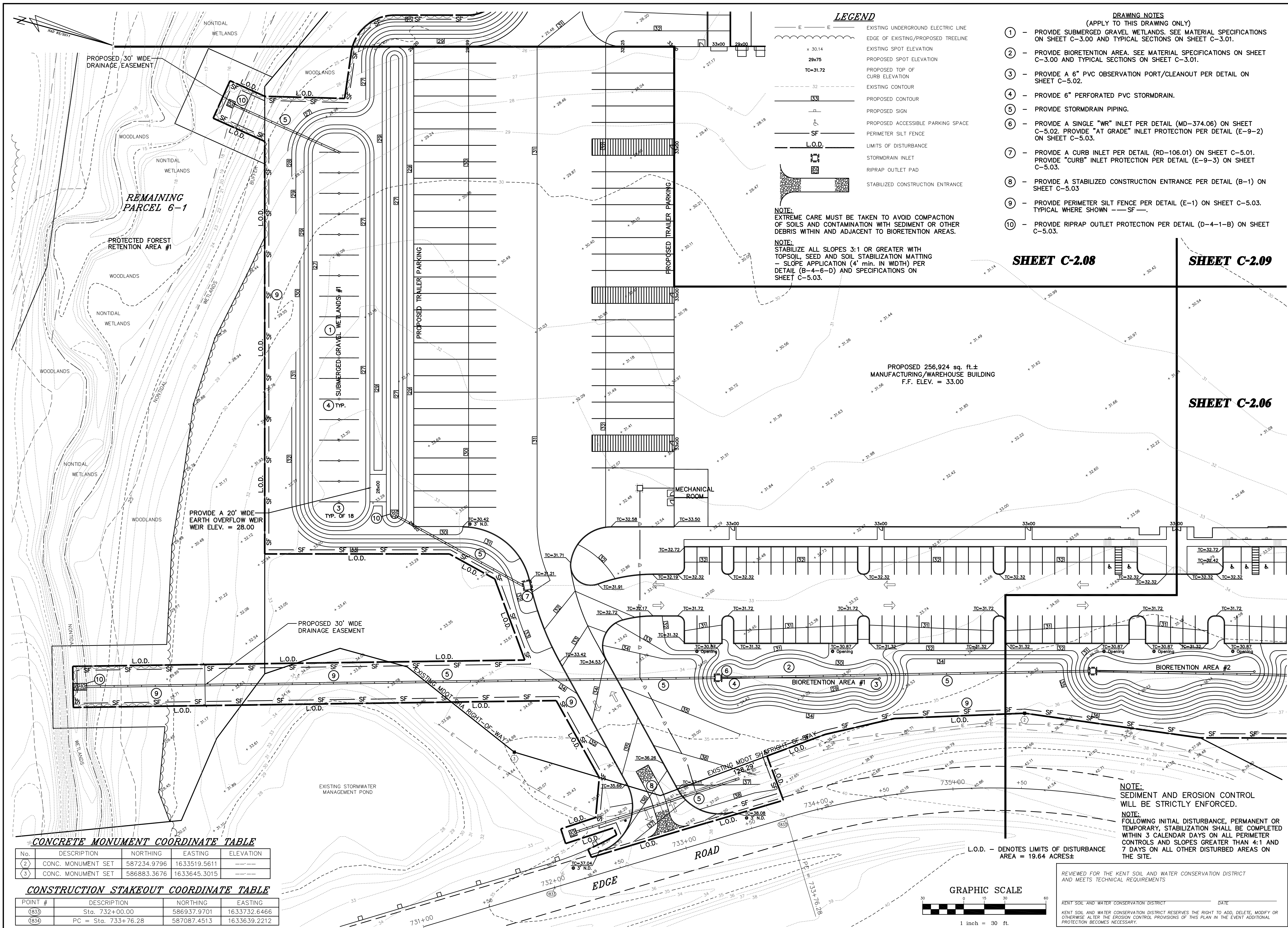
KENT COUNTY DEPARTMENT OF PUBLIC WORKS
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY HEALTH DEPARTMENT

DATE: MARCH '23	SCALE: 1" = 30'
JOB NO.: 2021165	DRAWN BY: WJM
FOLDER REF: 31-2021165	DESIGNED BY: KJS
SHEET NO.: C-2.05	
CADD FILE: 21165C205	

MANUFACTURING/WAREHOUSE BUILDING
ON LOT 1, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6-1

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 410-291-1144
FAX: 410-291-1148

OCTOBER 9, 2023
DAE
SEAL



- LEGEND**
- EXISTING UNDERGROUND ELECTRIC LINE
 - EDGE OF EXISTING/PROPOSED TREELINE
 - EXISTING SPOT ELEVATION
 - PROPOSED SPOT ELEVATION
 - PROPOSED TOP OF CURB ELEVATION
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - PROPOSED ACCESSIBLE PARKING SPACE
 - PERIMETER SILT FENCE
 - LIMITS OF DISTURBANCE
 - STORMDRAIN INLET
 - RIPRAP OUTLET PAD
 - STABILIZED CONSTRUCTION ENTRANCE

- DRAWING NOTES**
(APPLY TO THIS DRAWING ONLY)
- 1 - PROVIDE SUBMERGED GRAVEL WETLANDS. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00 AND TYPICAL SECTIONS ON SHEET C-3.01.
 - 2 - PROVIDE BIORETENTION AREA. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00 AND TYPICAL SECTIONS ON SHEET C-3.01.
 - 3 - PROVIDE A 6" PVC OBSERVATION PORT/CLEANOUT PER DETAIL ON SHEET C-5.02.
 - 4 - PROVIDE 6" PERFORATED PVC STORMDRAIN.
 - 5 - PROVIDE STORMDRAIN PIPING.
 - 6 - PROVIDE A SINGLE "WR" INLET PER DETAIL (MD-374.06) ON SHEET C-5.02. PROVIDE "AT GRADE" INLET PROTECTION PER DETAIL (E-9-2) ON SHEET C-5.03.
 - 7 - PROVIDE A CURB INLET PER DETAIL (RD-106.01) ON SHEET C-5.01. PROVIDE "CURB" INLET PROTECTION PER DETAIL (E-9-3) ON SHEET C-5.03.
 - 8 - PROVIDE A STABILIZED CONSTRUCTION ENTRANCE PER DETAIL (B-1) ON SHEET C-5.03.
 - 9 - PROVIDE PERIMETER SILT FENCE PER DETAIL (E-1) ON SHEET C-5.03. TYPICAL WHERE SHOWN --- SF ---.
 - 10 - PROVIDE RIPRAP OUTLET PROTECTION PER DETAIL (D-4-1-B) ON SHEET C-5.03.

NOTE:
EXTREME CARE MUST BE TAKEN TO AVOID COMPACTION OF SOILS AND CONTAMINATION WITH SEDIMENT OR OTHER DEBRIS WITHIN AND ADJACENT TO BIORETENTION AREAS.

NOTE:
STABILIZE ALL SLOPES 3:1 OR GREATER WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION (4' min. IN WIDTH) PER DETAIL (B-4-6-D) AND SPECIFICATIONS ON SHEET C-5.03.

SHEET C-2.08

SHEET C-2.09

SHEET C-2.06

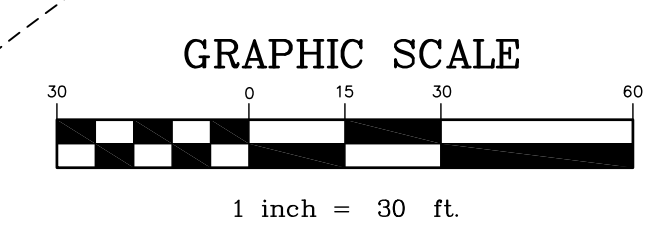
PROPOSED 256,924 sq. ft. ±
MANUFACTURING/WAREHOUSE BUILDING
F.F. ELEV. = 33.00

CONCRETE MONUMENT COORDINATE TABLE

No.	DESCRIPTION	NORTHING	EASTING	ELEVATION
2	CONC. MONUMENT SET	587234.9796	1633519.5611	---
3	CONC. MONUMENT SET	586883.3676	1633645.3015	---

CONSTRUCTION STAKEOUT COORDINATE TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
1833	Sta. 732+00.00	586937.9701	1633732.6466
1834	PC = Sta. 733+76.28	587087.4513	1633639.2212



NOTE:
SEDIMENT AND EROSION CONTROL WILL BE STRICTLY ENFORCED.

NOTE:
FOLLOWING INITIAL DISTURBANCE, PERMANENT OR TEMPORARY, STABILIZATION SHALL BE COMPLETED WITHIN 3 CALENDAR DAYS ON ALL PERIMETER CONTROLS AND SLOPES GREATER THAN 4:1 AND 7 DAYS ON ALL OTHER DISTURBED AREAS ON THE SITE.

L.O.D. - DENOTES LIMITS OF DISTURBANCE AREA = 19.64 ACRES±

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT

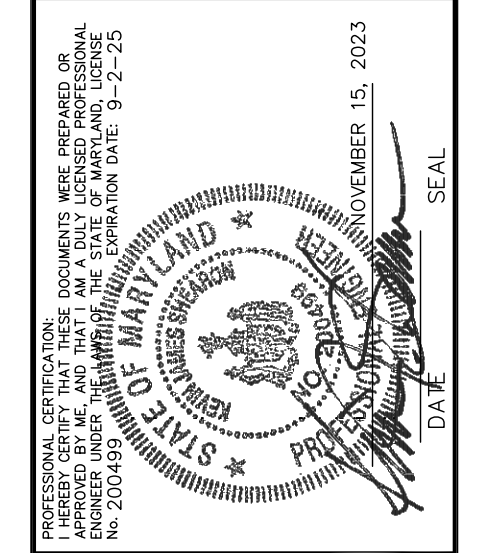
DATE

<p>DATE: MARCH '23</p> <p>JOB No.: 2021165</p> <p>FOLDER #4: 31-2021165</p> <p>SHEET No.: C-2.07</p> <p>CADD FILE - 21165C207</p>	<p>SCALE: 1" = 30'</p> <p>DRAWN BY: WJM</p> <p>DESIGNED BY: KJS</p>	<p>STORMWATER MANAGEMENT AND SEDIMENT & EROSION CONTROL PLAN</p> <p>FOR A</p> <p>MANUFACTURING/WAREHOUSE BUILDING</p> <p>ON LOT 1, THE LANDS OF</p> <p>MILLINGTON CROSSING ASSOCIATES ONE, LLC</p> <p>FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON</p> <p>TAX MAP - 31, GRID - 1E, PARCEL - 6-1</p>	<p>REVISION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>PER TAC COMMENTS</th> <th>PER MOD COMMENTS</th> <th>PER TAC COMMENTS</th> </tr> </thead> <tbody> <tr> <td>10-19-23</td> <td></td> <td></td> <td></td> </tr> <tr> <td>11-15-23</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5-24-24</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	DATE	PER TAC COMMENTS	PER MOD COMMENTS	PER TAC COMMENTS	10-19-23				11-15-23				5-24-24				<p>DATE: NOVEMBER 15, 2023</p> <p>BY: [Signature]</p> <p>SEAL: [Seal]</p> <p>DAE</p>	<p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p>
DATE	PER TAC COMMENTS	PER MOD COMMENTS	PER TAC COMMENTS																		
10-19-23																					
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5-24-24																					

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC

ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING

P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 410-296-1148
FAX: 410-296-9148



B.4.C Specifications for Micro-Bioretenion

1. Materials Specifications

The allowable materials to be used in bioretention area are detailed in Table B.4.1

2. Filtering Media or Planting Soil

The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the bioretention area that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05.

The planting soil shall be tested and shall meet following criteria:

- Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification)
- Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%).
- Clay Content - Media shall have a clay content of less than 5%.
- pH Range - Should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH.

There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.

3. Compaction

It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoes to remove original soil. If practices are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary tilling operation such as a chisel plow, ripper, or subsoiler. These tilling operations are to refracture the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.

Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 18". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

4. Plant Material

See Landscape Plans.

5. Plant Installation

Compost is a better organic material source, is less likely to float, and should be placed in the vent and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Pine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant materials shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8th of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.

Grasses and legume seed should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

The topsoil specifications provide enough organic material to adequately supply nutrients from natural cycling. The primary function of the bioretention structure is to improve water quality. Adding fertilizers defeats, or at a minimum, impedes this goal. Only add fertilizer if wood chips or mulch are used to amend the soil. Rototill urea fertilizer at a rate of 2 pounds per 1000 square feet.

6. Underdrains

Underdrains should meet the following criteria (See profiles for modifications to specifications below):

- Pipe-Should be 4" to 6" diameter, slotted or perforated rigid plastic pipe (ASTM 758, Type PS 28, or AASHTO-M-278) in a gravel layer. The preferred material is slotted, 4" rigid pipe (e.g., PVC or HDPE).
- Perforations-If perforated pipe is used, perforations should be 3/8" diameter located 6" on center with a minimum of four holes per row. Pipe shall be wrapped with a 1/4" (No. 4 or 4x4) galvanized hardware cloth.
- Gravel-The gravel layer (No. 57 stone preferred) shall be at least 3" thick above and below the underdrain.
- The main collector pipe shall be at a minimum 0.5% slope.
- A rigid, non-perforated observation well must be provided (one per every 1,000 square feet) to provide a clean-out port and monitor performance of the filter.
- A 4" layer of pea gravel (1/8" to 3/8" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".

The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1000 square feet of surface area).

7. Miscellaneous

The bioretention facility may not be constructed until all contributing drainage area has been stabilized.

MATERIAL SPECIFICATIONS FOR MICRO-BIORETENTION

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE LANDSCAPE PLANS	SEE PLAN	PLANTINGS ARE SITE-SPECIFIC - SEE LANDSCAPE PLAN
PLANTINGS SOILS (2' to 4' DEEP)	LOAMY SAND (60% to 65%) & COMPOST (35% to 40%) or SANDY LOAM (30%), COARSE SAND (30%) & COMPOST (40%)	N/A	USDA SOIL TYPES LOAMY SAND OR SANDY LOAM; CLAY CONTENT < 5%
ORGANIC CONTENT	Min. 10% BY DRY WEIGHT (ASTM D 2974)		
PEA GRAVEL DIAPHRAGM	PEA GRAVEL; ASTM-D-448	No. 8 or No. 9 (1/8" to 3/8")	
CURRENT DRAIN	ORNAMENTAL STONE; WASHED COBBLES	STONE: 2" to 5"	
GEOTEXTILE	SEE APPENDIX A, TABLE A.4	N/A	PE TYPE 1 NONWOVEN
GRAVEL (UNDERDRAINS AND INFILTRATION BERMS)	AASHTO M-43	No. 57 or No. 6 AGGREGATE (3/8" to 3/4")	
UNDERDRAIN PIPING	F 758, TYPE PS 28 or AASHTO M-278	4" to 6" RIGID (SCH-40) PVC or SDR-35	SLOTTED OR PERFORATED PIPE; 3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH
POURED IN PLACE CONCRETE (IF REQUIRED)	MSHA MIX No. 3; f _c = 3500 psi @ 28 DAYS, NORMAL WEIGHT, AIR-ENTRAINED; REINFORCING TO MEET ASTM-615-60	N/A	ON-SITE TESTING OF POURED-IN-PLACE CONCRETE REQUIRED; 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT USING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND - DESIGN TO INCLUDE MEETING ACI CODE 350.R/89; VERTICAL LOADING [H-10 OR H-20]; ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES); AND ANALYSIS OF POTENTIAL CRACKING
SAND	AASHTO M-6 or ASTM-C-33	0.02" to 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATE OR DOLOMITIC SAND SUBSTITUTION ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND

MICRO-BIORETENTION MAINTENANCE SCHEDULE

DESCRIPTION	METHOD	FREQUENCY	TIME OF THE YEAR
SOIL			
INSPECT AND REPAIR EROSION, RESEED	VISUAL	MONTHLY	MONTHLY
ORGANIC LAYER			
TOPSOIL MEDIA SHALL BE REMOVED AND REPLACED WHEN PONDING DRAWDOWN EXCEEDS 48 HOURS	VISUAL	AFTER MAJOR STORM EVENTS	WHENEVER NEEDED
PLANTS			
REMOVAL AND REPLACEMENT OF ALL DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT	SEE PLANTING SPECS.	TWICE A YEAR	3/15 to 4/30 AND 10/1 to 11/30
INSPECT FOR DISEASE/PEST PROBLEMS	VISUAL	ONCE A MONTH (AVERAGE)	INSPECT MORE FREQUENTLY IN WARMER MONTHS
DETERMINE IF TREATMENT IS WARRANTED. USE LEAST TOXIC TREATMENT APPROACH	BY HAND	N/A	VARIES, DEPENDS ON DISEASE OR INSECT INFESTATION
WATERING OF PLANT MATERIAL SHALL TAKE PLACE FOR FOURTEEN CONSECUTIVE DAYS AFTER PLANTING HAS BEEN COMPLETED UNLESS THERE IS SUFFICIENT NATURAL RAINFALL	BY HAND	IMMEDIATELY AFTER COMPLETION OF PROJECT	N/A

BIORETENTION AND SUBMERGED GRAVEL WETLANDS SYSTEM SCHEDULE

SYSTEM NUMBER	SURFACE ELEVATION	TEMPORARY PONDING DEPTH	PIPE INVERT	PLANTING SOIL THICKNESS	PEA GRAVEL THICKNESS	# 57 STONE THICKNESS
BIO #1	---	12"	---	---	4"	---
BIO #2	---	12"	---	---	4"	---
BIO #3	---	12"	---	---	4"	---
SGW #1	---	12"	---	---	4"	---
SGW #2	---	12"	---	---	4"	---
SGW #3	---	12"	---	---	4"	---
SGW #4	---	12"	---	---	4"	---

BMP MATERIAL SPECIFICATIONS FOR SUBMERGED GRAVEL WETLANDS

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLAN	SEE PLAN	PLANTINGS ARE SITE-SPECIFIC - SEE LANDSCAPE PLAN FOR PLANT SPECIES
WETLAND MEDIA	LOAMY SAND COMPOST SANDY LOAM, COARSE SAND & COMPOST	N/A	USDA SOIL TYPES LOAMY SAND OR SANDY LOAM; CLAY CONTENT < 5% ORGANIC MATTER CONTENT SHALL BE GREATER THAN 15% HYDRAULIC CONDUCTIVITY SHALL BE BETWEEN 0.01 AND 0.10 ft/day
PEA GRAVEL DIAPHRAGM	PEA GRAVEL; ASTM-D-448	No. 8 or No. 9 (1/8" to 3/8")	
UNDERDRAIN STONE	AASHTO M-43	No. 57 or No. 6 AGGREGATE (3/8" to 3/4")	
UNDERDRAIN PIPING	F 758, TYPE PS 28 or AASHTO M-278	4" to 6" RIGID (SCH-40) PVC or SDR-35	SLOTTED OR PERFORATED PIPE; 3/8" PERF. @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" OF GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4" GALVANIZED HARDWARE CLOTH

MAINTENANCE SCHEDULE

THE OWNER OF THE PROPERTY WILL ESTABLISH AN INSPECTION AND MAINTENANCE LOG UPON COMPLETION OF THE STORMWATER MANAGEMENT FACILITIES. THE LOG WILL BE UPDATED QUARTERLY OR AFTER ANY MAJOR STORM. THE LOG WILL BE MADE AVAILABLE FOR REVIEW UPON REQUEST BY THE QUEEN ANNE'S COUNTY DEPARTMENT OF PUBLIC WORKS INSPECTION DIVISION.

SUBMERGED GRAVEL WETLANDS:
THE FOLLOWING ITEMS SHALL BE ADDRESSED TO ENSURE PROPER MAINTENANCE AND LONG-TERM PERFORMANCE OF SUBMERGED GRAVEL WETLANDS:

INSPECTION AND MAINTENANCE:

1st YEAR POST-CONSTRUCTION: INSPECTION FREQUENCY SHALL BE AFTER EVERY MAJOR STORM IN THE FIRST YEAR FOLLOWING CONSTRUCTION.

- INSPECT TO BE CERTAIN SYSTEM DRAINS WITHIN 24-72 hrs.(WITHIN THE DESIGN PERIOD, BUT ALSO NOT SO QUICKLY AS TO MINIMIZE STORMWATER MANAGEMENT
- WATERING PLANTS AS NECESSARY DURING THE FIRST GROWING SEASON
- RE-VEGETATING POORLY ESTABLISHED AREAS AS NECESSARY
- TREATING DISEASED VEGETATION AS NECESSARY
- QUARTERLY INSPECTION OF SOIL AND REPAIRING ERODED AREAS, ESPECIALLY ON SLOPES.
- CHECKING INLETS, OUTLETS AND OVERFLOW SPILLWAY FOR BLOCKAGE, STRUCTURAL INTEGRITY AND EVIDENCE OF EROSION & SEDIMENTATION.

POST-CONSTRUCTION: INSPECTION FREQUENCY SHALL BE AT LEAST EVERY 6 MONTHS THEREAFTER, AS PER USEPA GOOD HOUSE-KEEPING REQUIREMENTS. INSPECTION FREQUENCY CAN BE REDUCED TO ANNUAL FOLLOWING 2 YEARS OF MONITORING THAT INDICATES THE RATE OF SEDIMENT ACCUMULATION IS LESS THAN THE CLEANING CRITERIA LISTED BELOW. INSPECTIONS SHALL FOCUS ON:

- CHECKING THE FILTER SURFACE FOR DENSE COMPLETE, ROOT MAT ESTABLISHMENT ACROSS THE WETLAND SURFACE. THOROUGH REVEGETATION WITH GRASSES, FORBS AND SHRUBS IS NECESSARY. UNLIKE BIORETENTION, WHERE MULCH IS COMMONLY USED, COMPLETE SURFACE COVERAGE WITH VEGETATION IS NEEDED.
- CHECKING THE GRAVEL WETLAND SURFACE FOR STANDING WATER OR OTHER EVIDENCE OF RISER CLOGGING, SUCH AS DISCOLORED OR ACCUMULATED SEDIMENTS.
- CHECKING THE SEDIMENTATION CHAMBER OR FOREBAY FOR SEDIMENT ACCUMULATION, TRASH AND DEBRIS.
- INSPECT TO BE CERTAIN SEDIMENTATION FOREBAY DRAINS WITHIN 24 TO 72 hrs.
- CHECKING INLETS, OUTLETS AND OVERFLOW SPILLWAY FOR BLOCKAGE, STRUCTURAL INTEGRITY AND EVIDENCE OF EROSION.
- REMOVAL OF DECAYING VEGETATION, LITTER, DEBRIS, INVASIVE SPECIES AND WOODY VEGETATION.

CLEANING CRITERIA FOR SEDIMENTATION FOREBAY: SEDIMENT SHALL BE REMOVED FROM THE SEDIMENTATION CHAMBER (FOREBAY) WHEN IT ACCUMULATES TO A DEPTH OF MORE THAN 3 inches (30 cm) OR 10 PERCENT OF THE PRETREATMENT VOLUME. THE SEDIMENTATION FOREBAY SHALL BE CLEANED OF VEGETATION IF PERSISTENT STANDING WATER AND WETLAND SURFACE MATERIALS DOMINANT. THE CLEANING INTERVAL IS APPROXIMATELY EVERY 4 YEARS. A DRY SEDIMENTATION FOREBAY IS THE OPTIMAL CONDITION WHILE IN PRACTICE THIS CONDITION IS RARELY ACHIEVED. THE SEDIMENTATION CHAMBER, FOREBAY AND TREATMENT CELL OUTLET DEVICE SHOULD BE CLEANED WHEN DRAWDOWN TIMES EXCEED 60 to 72 hrs. MATERIALS CAN BE REMOVED WITH HEAVY CONSTRUCTION EQUIPMENT; HOWEVER THIS EQUIPMENT SHALL NOT TRACK ON THE WETLAND SURFACE. REVEGETATION OF DISTURBED AREAS AS NECESSARY. REMOVED SEDIMENTS SHOULD BE DETERMINED (IF NECESSARY) AND DISPOSED OF IN AN ACCEPTABLE MANNER.

CLEANING CRITERIA FOR GRAVEL WETLAND TREATMENT CELLS: SEDIMENT SHALL BE REMOVED FROM THE GRAVEL WETLAND SURFACE WHEN IT ACCUMULATES TO A DEPTH OF SEVERAL INCHES (>10 cm) ACROSS THE WETLAND SURFACE. MATERIALS SHOULD BE REMOVED WITH RAKES RATHER THAN HEAVY CONSTRUCTION EQUIPMENT TO AVOID COMPACTION OF THE GRAVEL WETLAND SURFACE. HEAVY EQUIPMENT COULD BE USED IF THE SYSTEM IS DESIGNED WITH DIMENSIONS THAT ALLOW EQUIPMENT TO BE LOCATED OUTSIDE THE GRAVEL WETLAND, WHILE A BACKHOE SHOVEL REACHES INSIDE THE GRAVEL WETLAND TO REMOVE SEDIMENT. REMOVED SEDIMENTS SHALL BE DETERMINED (IF NECESSARY) AND DISPOSED OF IN AN ACCEPTABLE MANNER.

DRAINING AND FLUSHING GRAVEL WETLAND TREATMENT CELLS: FOR MAINTENANCE IT MAY BE NECESSARY TO DRAIN OR FLUSH THE TREATMENT CELLS. PUMP OUT WATER FROM THE SYSTEM FROM THE NYLOPLAST HYDRAULIC CONTROL STRUCTURE AND FROM OTHER YARD GRATES. FLUSHING THE RISERS AND HORIZONTAL SUBDRAINS IS THE MOST EFFECTIVE WITH THE ENTIRE SYSTEM DRAINED. FLUSHED WATER AND SEDIMENT SHALL BE COLLECTED AND PROPERLY DISPOSED.

ENTIRE SITE STORMWATER MANAGEMENT SUMMARY TABLE

STEP No.	REQUIREMENT	VOLUME REQ.	VOLUME PRO.	NOTES
1	WATER QUALITY (Wq)	___ ac.-ft.	___ ac.-ft.	SUBMERGED GRAVEL WETLANDS
2	RECHARGE (Rev)	___ ac.-ft.	___ ac.-ft.	SUBMERGED GRAVEL WETLANDS
3	CHANNEL PROTECTION (Cp)	___ ac.-ft.	___ ac.-ft.	VOLUME REQUIREMENT DETERMINED AFTER ESD VOLUME CONSIDERATION
4	OVERBANK FLOOD (Op)	___ ac.-ft.	___ ac.-ft.	2-YEAR & 10-YEAR QUANTITY MANAGEMENT
	EXTREME FLOOD (Qt)	N/A	N/A	NOT REQUIRED BY REVIEWING AUTHORITY

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
KENT SOIL AND WATER CONSERVATION DISTRICT DATE
OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

FOR A
MANUFACTURING/WAREHOUSE BUILDING
ON LOT 1, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6-1

REVISION PER TAC COMMENTS
DATE 10-19-23

SCALE AS SHOWN
MARCH '23
JOB No. 2021165
DRAWN BY WJM
DESIGNED BY KJS
SHEET No. - C-3.00
CADD FILE - 21165C300

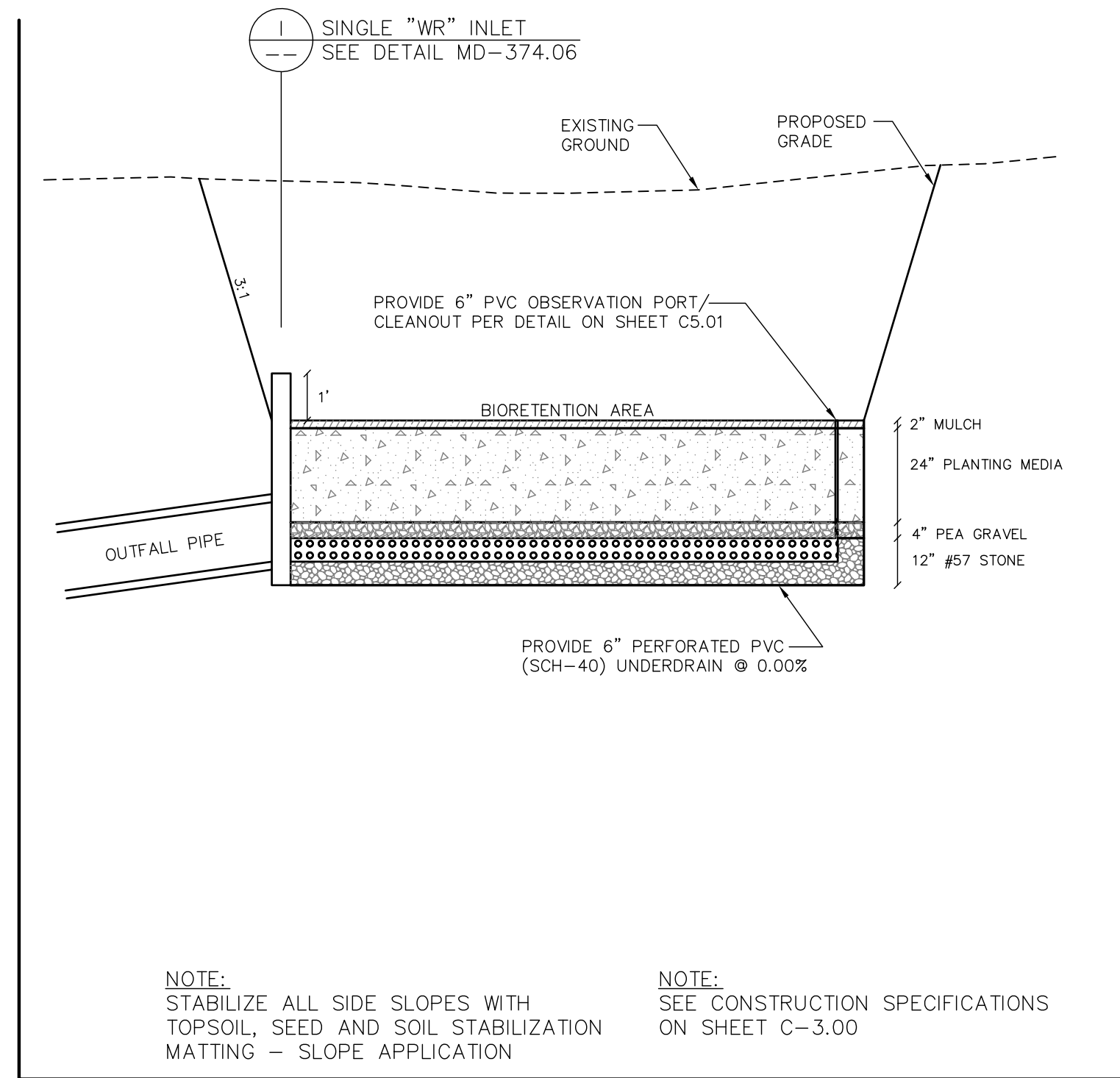
STORMWATER MANAGEMENT SPECIFICATIONS

FOR THE COUNTY DEPARTMENT OF PUBLIC WORKS
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY HEALTH DEPARTMENT

SEAL
OCTOBER 9, 2023
D.A.S.
CENTREVILLE, MARYLAND 21617
P.O. BOX 80
FAX: 1-443-262-9148

THESE DOCUMENTS WERE PREPARED OR REVIEWED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND. NO PORTION OF THESE DOCUMENTS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

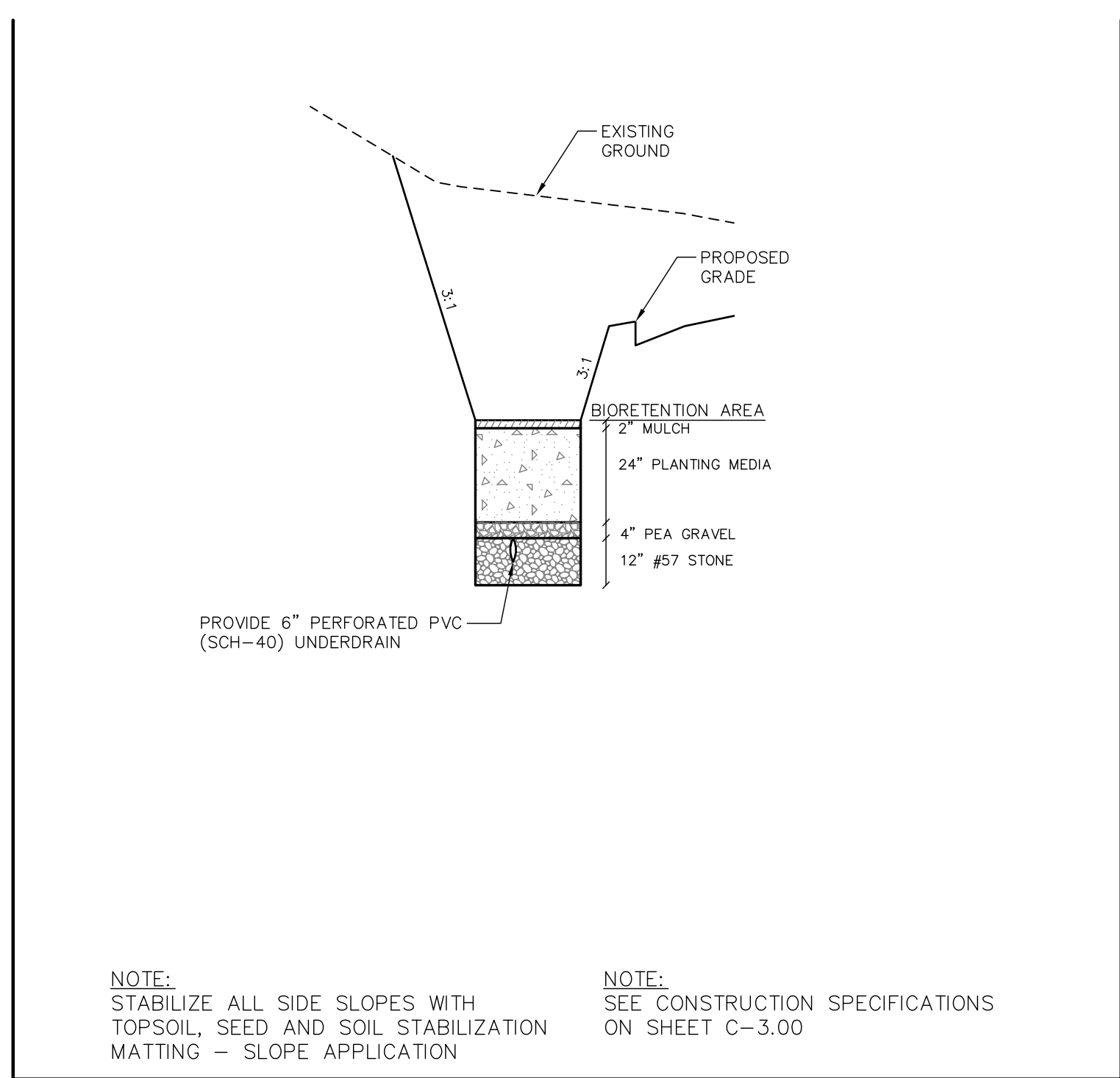
DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING



NOTE:
STABILIZE ALL SIDE SLOPES WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION

NOTE:
SEE CONSTRUCTION SPECIFICATIONS ON SHEET C-3.00

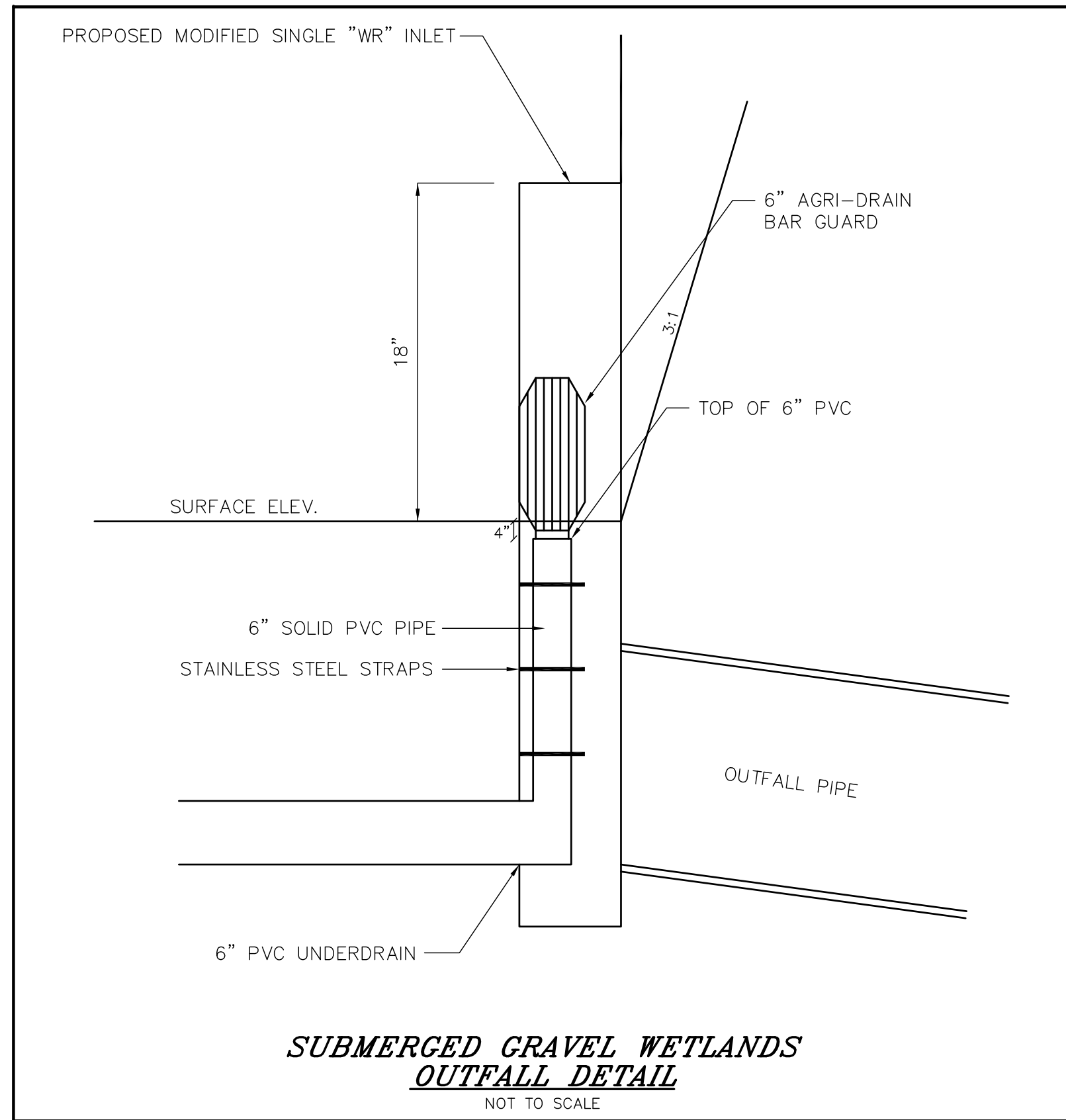
TYPICAL BIOTENTION SECTION
SCALE 1" = 30' HORIZONTAL
1" = 3' VERTICAL



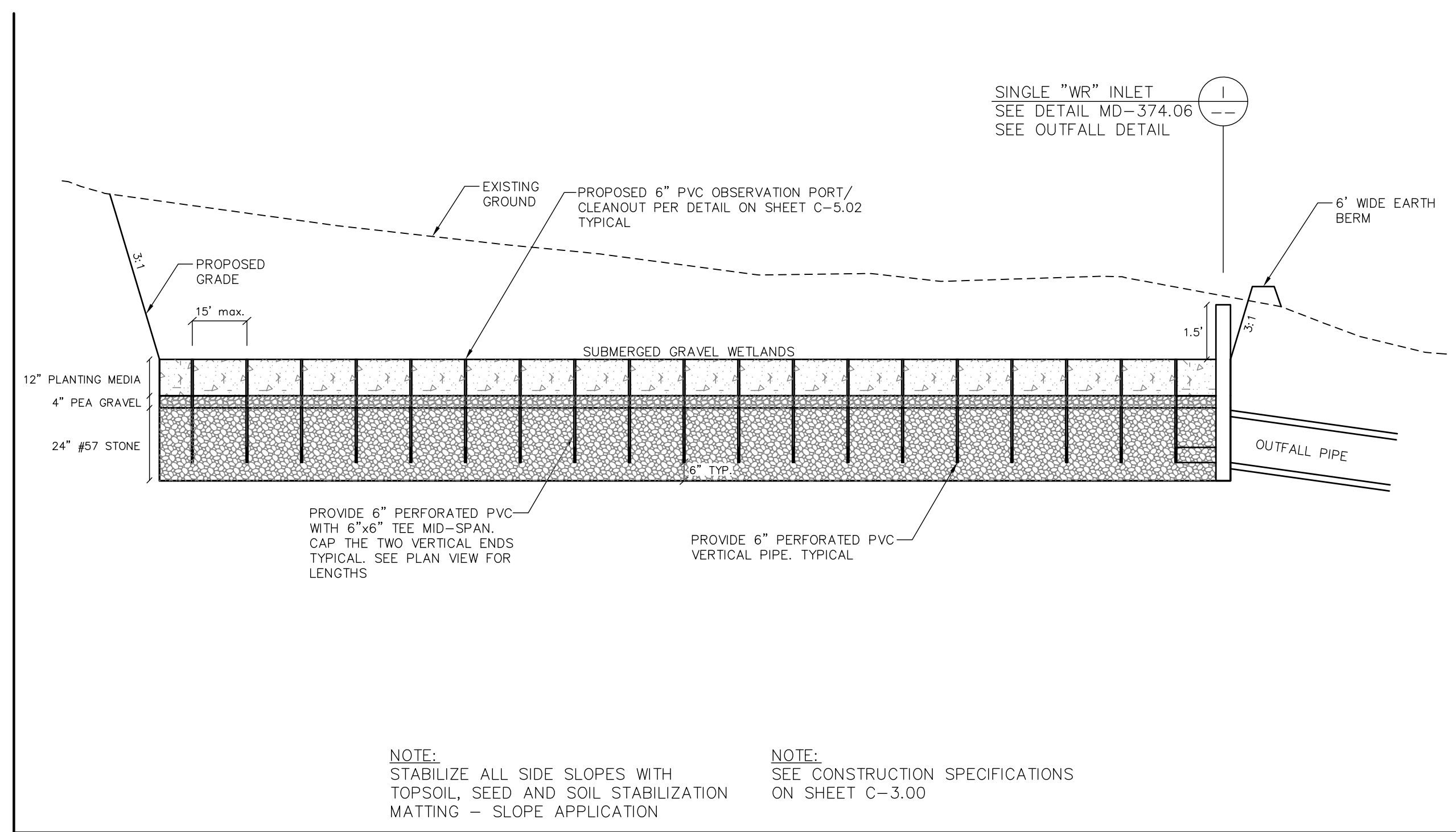
NOTE:
STABILIZE ALL SIDE SLOPES WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION

NOTE:
SEE CONSTRUCTION SPECIFICATIONS ON SHEET C-3.00

TYPICAL BIOTENTION SECTION
SCALE 1" = 30' HORIZONTAL
1" = 3' VERTICAL



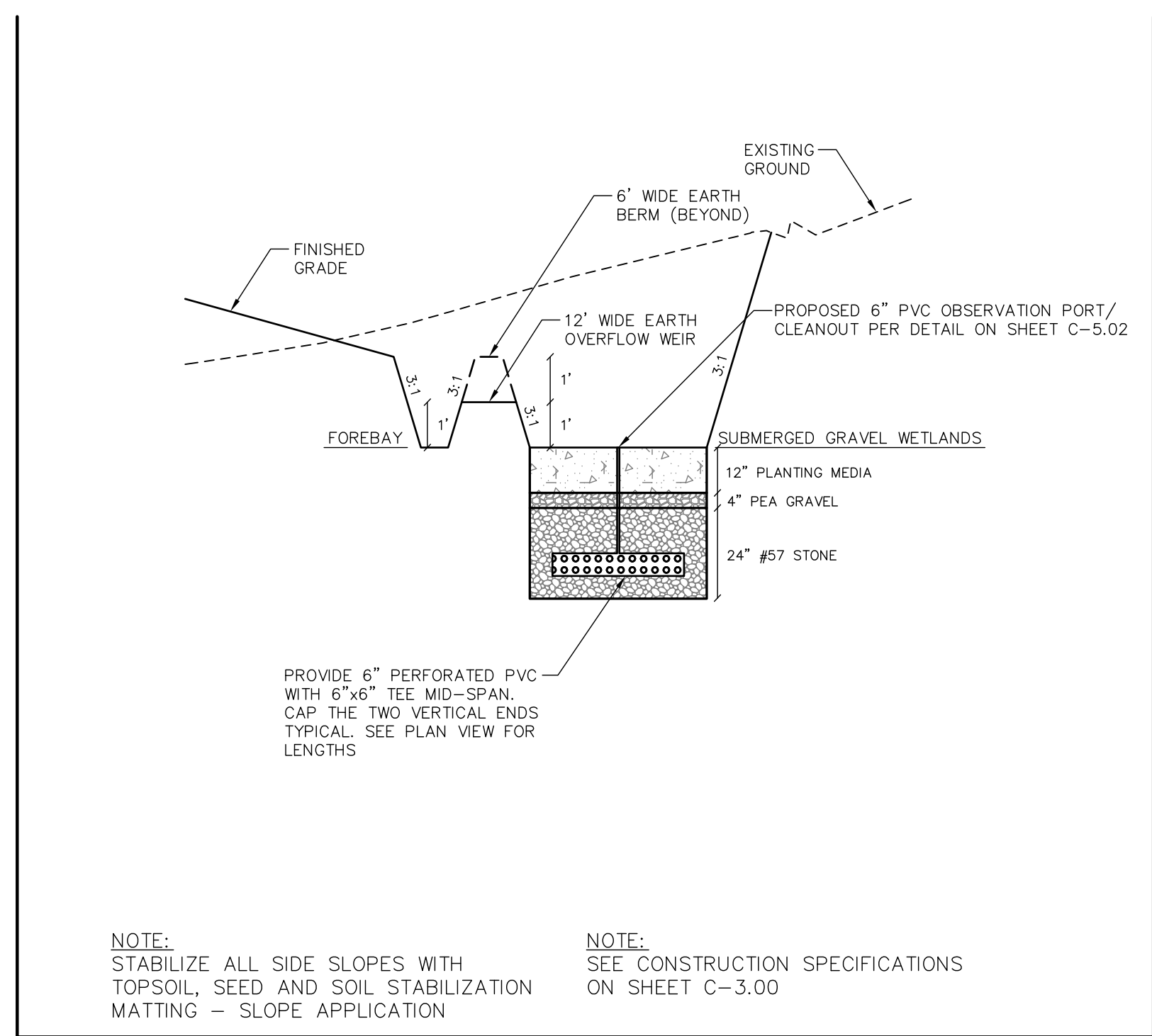
SUBMERGED GRAVEL WETLANDS OUTFALL DETAIL
NOT TO SCALE



NOTE:
STABILIZE ALL SIDE SLOPES WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION

NOTE:
SEE CONSTRUCTION SPECIFICATIONS ON SHEET C-3.00

TYPICAL SUBMERGED GRAVEL WETLANDS SECTION
SCALE 1" = 30' HORIZONTAL
1" = 3' VERTICAL



NOTE:
STABILIZE ALL SIDE SLOPES WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION

NOTE:
SEE CONSTRUCTION SPECIFICATIONS ON SHEET C-3.00

TYPICAL SUBMERGED GRAVEL WETLANDS SECTION
SCALE 1" = 30' HORIZONTAL
1" = 3' VERTICAL

AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT _____ DATE _____

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

DATE	MARCH '23	SCALE	AS SHOWN
JOB No.	2021165	DRAWN BY	WJM
FOLDER #4	31-2021165	DESIGNED BY	KJS
SHEET No.	C-3.01		
CADD FILE	21165C301		

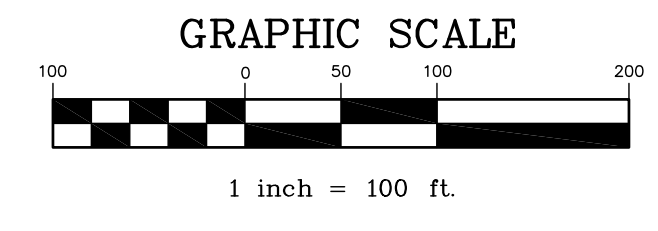
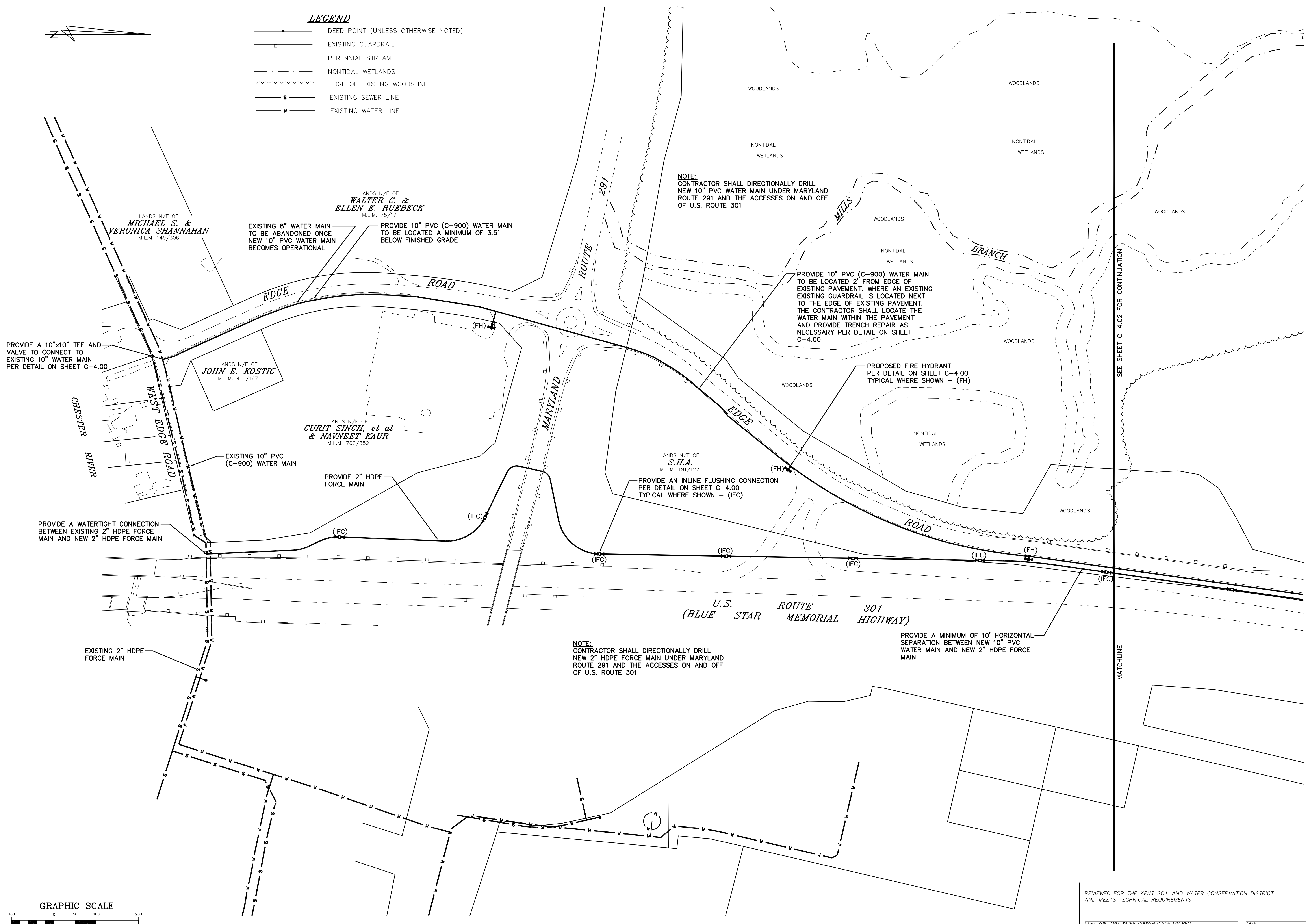
TYPICAL STORMWATER MANAGEMENT SECTIONS FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 1, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1

REVISION PER TAC COMMENTS DATE 10-9-23

PROFESSIONAL SEAL: DAVIS, MOORE, SHEARON & ASSOCIATES, LLC. ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING. P.O. BOX 80, CENTREVILLE, MARYLAND 21617. PHONE: 1-443-262-9148. FAX: 1-443-262-9148. OCTOBER 9, 2023. KENT COUNTY DEPARTMENT OF PLANNING AND ZONING. KENT COUNTY DEPARTMENT OF PUBLIC WORKS. KENT COUNTY HEALTH DEPARTMENT. KENT SOIL AND WATER CONSERVATION DISTRICT.



- LEGEND**
- DEED POINT (UNLESS OTHERWISE NOTED)
 - EXISTING GUARDRAIL
 - - - PERENNIAL STREAM
 - - - NONTIDAL WETLANDS
 - ~ ~ ~ EDGE OF EXISTING WOODSLINE
 - s— EXISTING SEWER LINE
 - v— EXISTING WATER LINE



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KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

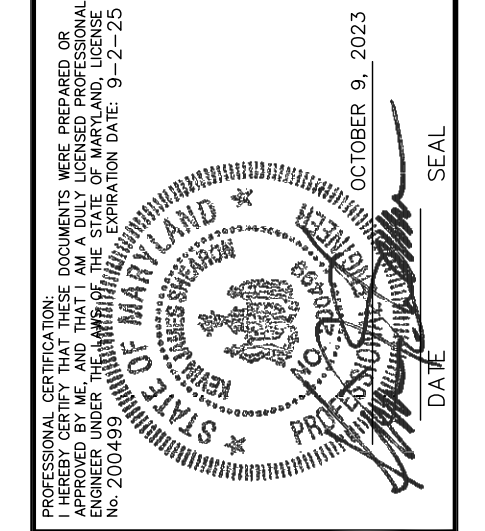
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

KENT COUNTY HEALTH DEPARTMENT

KENT SOIL AND WATER CONSERVATION DISTRICT

APPROVED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

DATE: _____



DAVIS, MOORE, SHEARON & ASSOCIATES, LLC

ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING

P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 1-443-262-9148
FAX: 1-443-262-9148

DATE	REVISION
10-9-23	PER TAC COMMENTS

UTILITY PLAN FOR A

MANUFACTURING/WAREHOUSE BUILDING

ON LOT 1, THE LANDS OF

MILLINGTON CROSSING ASSOCIATES ONE, LLC

FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON

TAX MAP - 31, GRID - 1E, PARCEL - 6-1

DATE: MARCH '23

SCALE: 1" = 100'

JOB No.: 2021165

DRAWN BY: WJM

FOLDER #4: 31-2021165

DESIGNED BY: KJS

SHEET No.: C-4.01

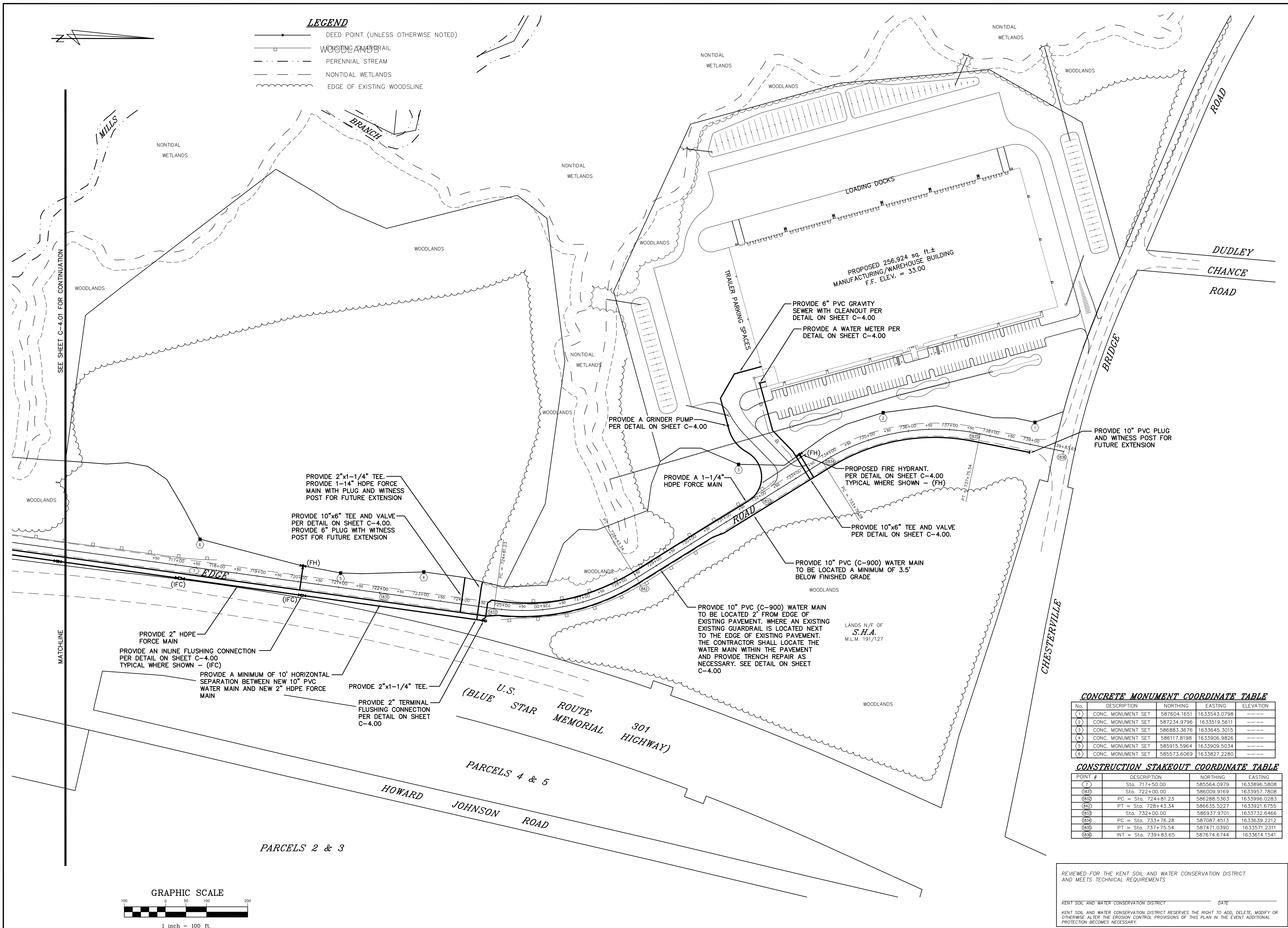
CADD FILE - 21165C401

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT

DATE: _____

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

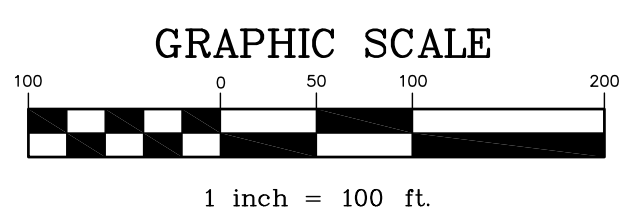


LEGEND

	DEED POINT (UNLESS OTHERWISE NOTED)
	WOODLAND
	PERENNIAL STREAM
	NONTIDAL WETLANDS
	EDGE OF EXISTING WOODLINE

SEE SHEET C-4.01 FOR CONTINUATION

MATCHLINE



CONCRETE MONUMENT COORDINATE TABLE

No.	DESCRIPTION	NORTHING	EASTING	ELEVATION
(1)	CONC. MONUMENT SET	587604.1651	1633543.0798	---
(2)	CONC. MONUMENT SET	587234.9796	1633519.5611	---
(3)	CONC. MONUMENT SET	586883.3676	1633645.3015	---
(4)	CONC. MONUMENT SET	586117.8198	1633906.9826	---
(5)	CONC. MONUMENT SET	585915.5964	1633909.5034	---
(6)	CONC. MONUMENT SET	585573.6069	1633827.2280	---

CONSTRUCTION STAKEOUT COORDINATE TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
(7)	Sta. 717+50.00	585564.0979	1633896.5808
(83)	Sta. 722+00.00	586009.9169	1633957.7808
(83)	PC = Sta. 724+81.23	586288.5363	1633996.0283
(84)	PT = Sta. 728+43.34	586635.5227	1633921.6755
(83)	Sta. 732+00.00	586937.9701	1633732.6466
(83)	PC = Sta. 733+76.28	587087.4513	1633639.2212
(83)	PT = Sta. 737+75.54	587471.0390	1633571.2311
(83)	INT = Sta. 739+83.65	587674.6744	1633614.1541

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT _____ DATE _____

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

DATE	MARCH '23	SCALE	1" = 100'
JOB No.	2021165	DRAWN BY	WJM
FOLDER Ref.	31-2021165	DESIGNED BY	KJS
SHEET No.	C-4.02		
CADD FILE	21165C402		

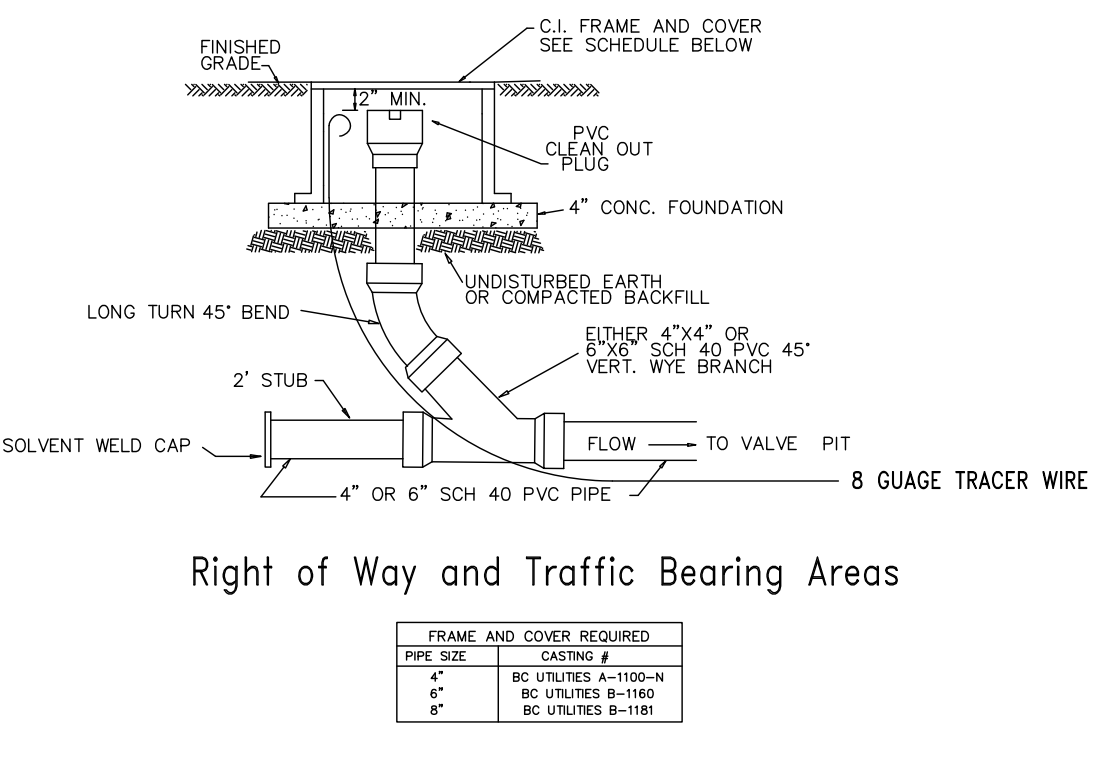
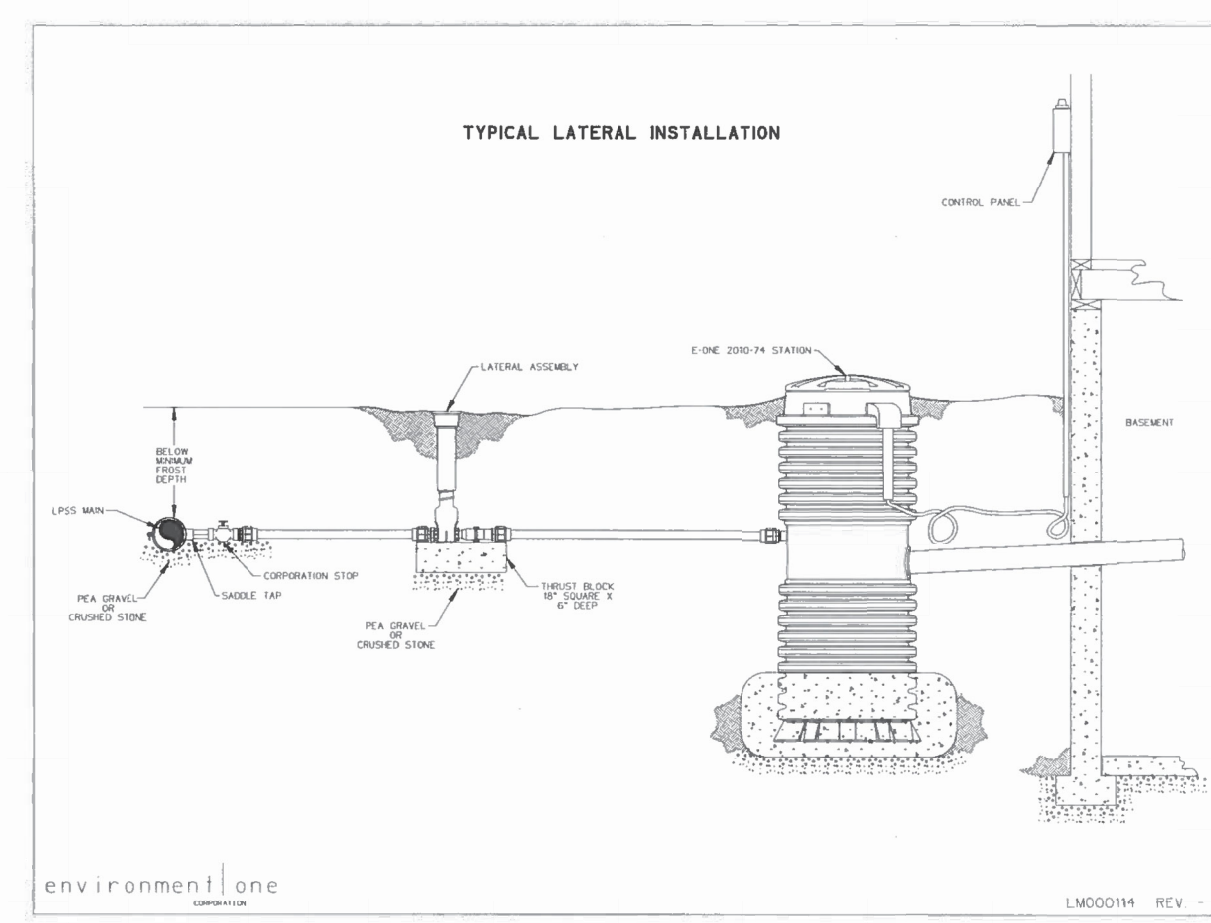
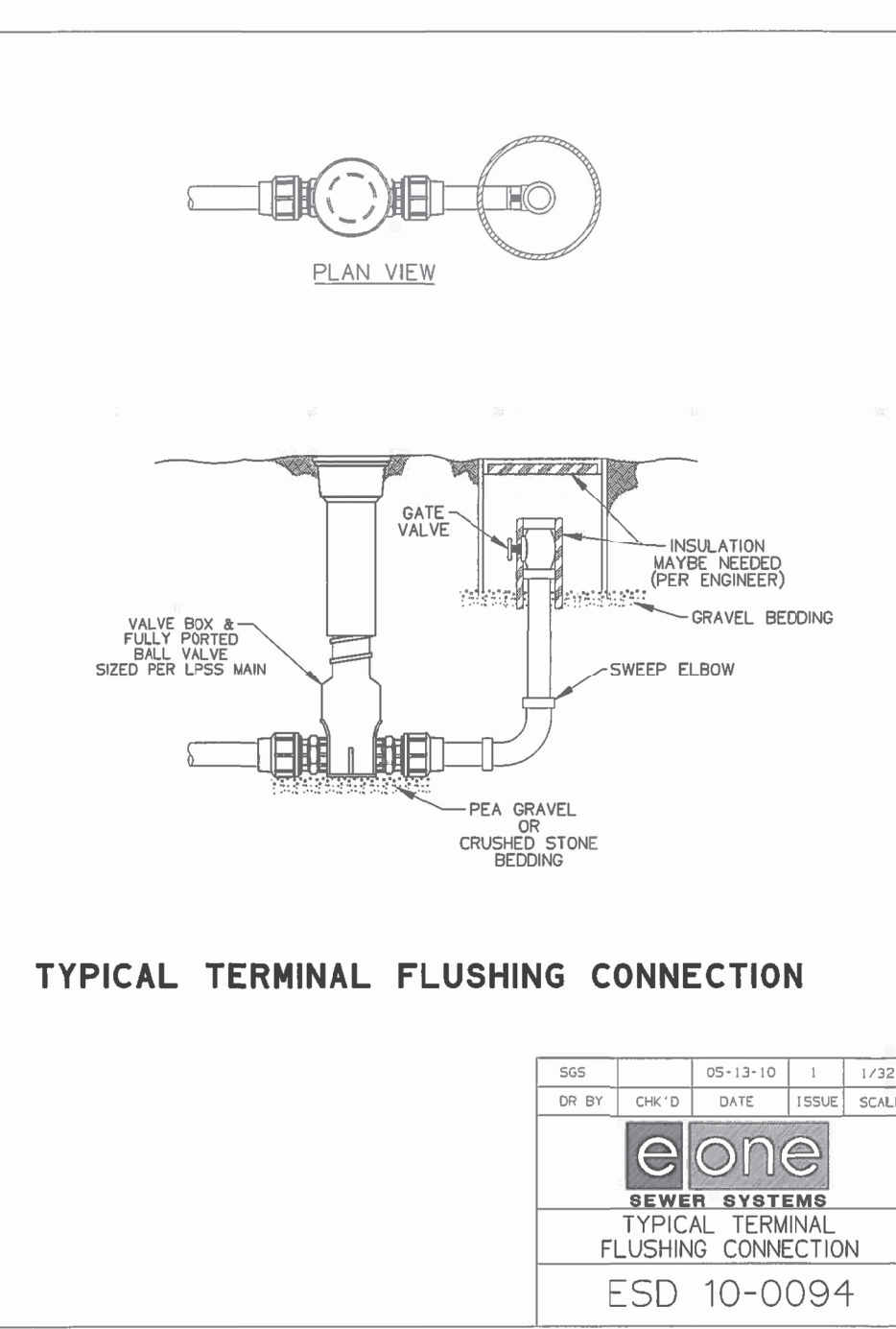
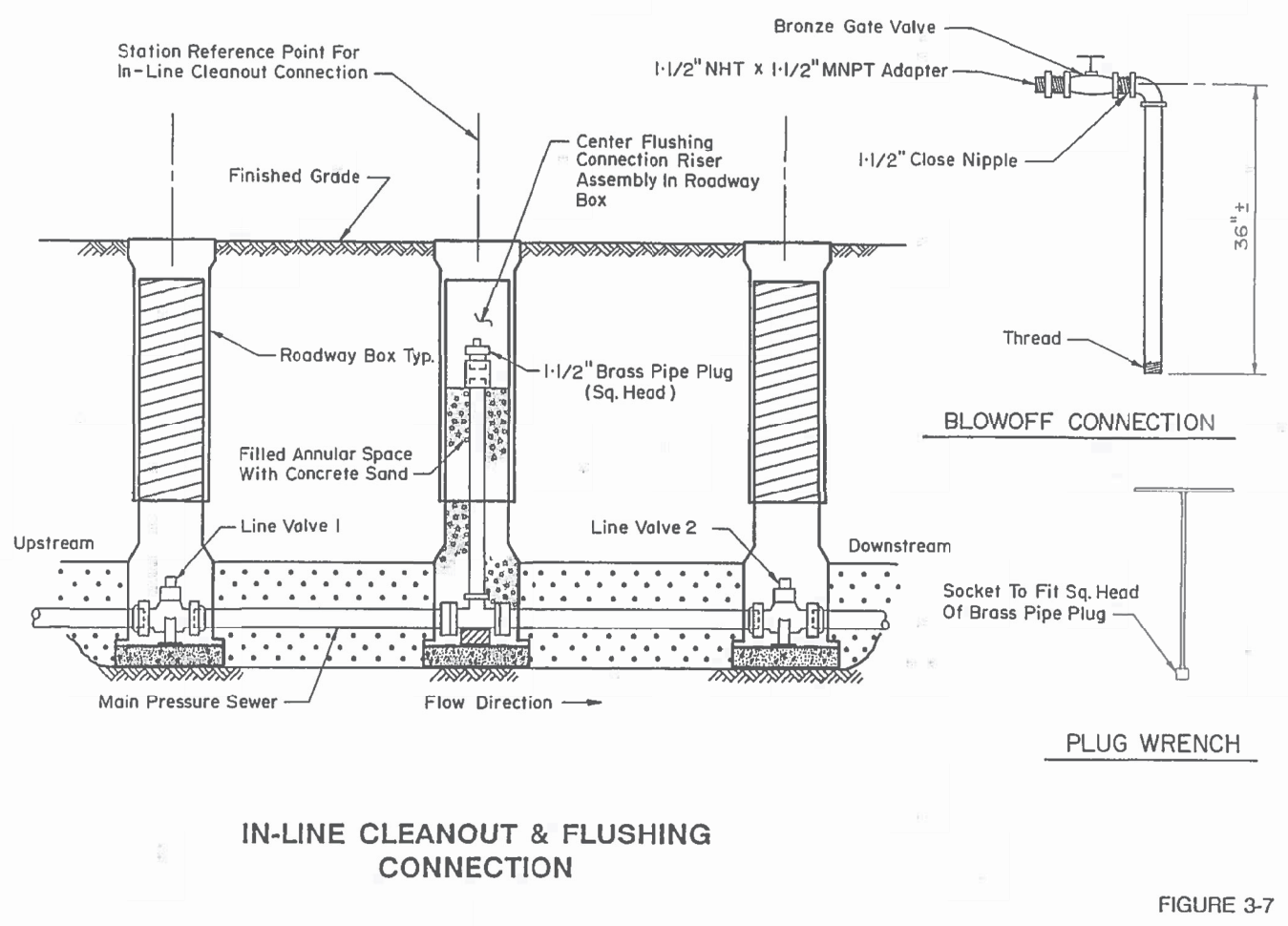
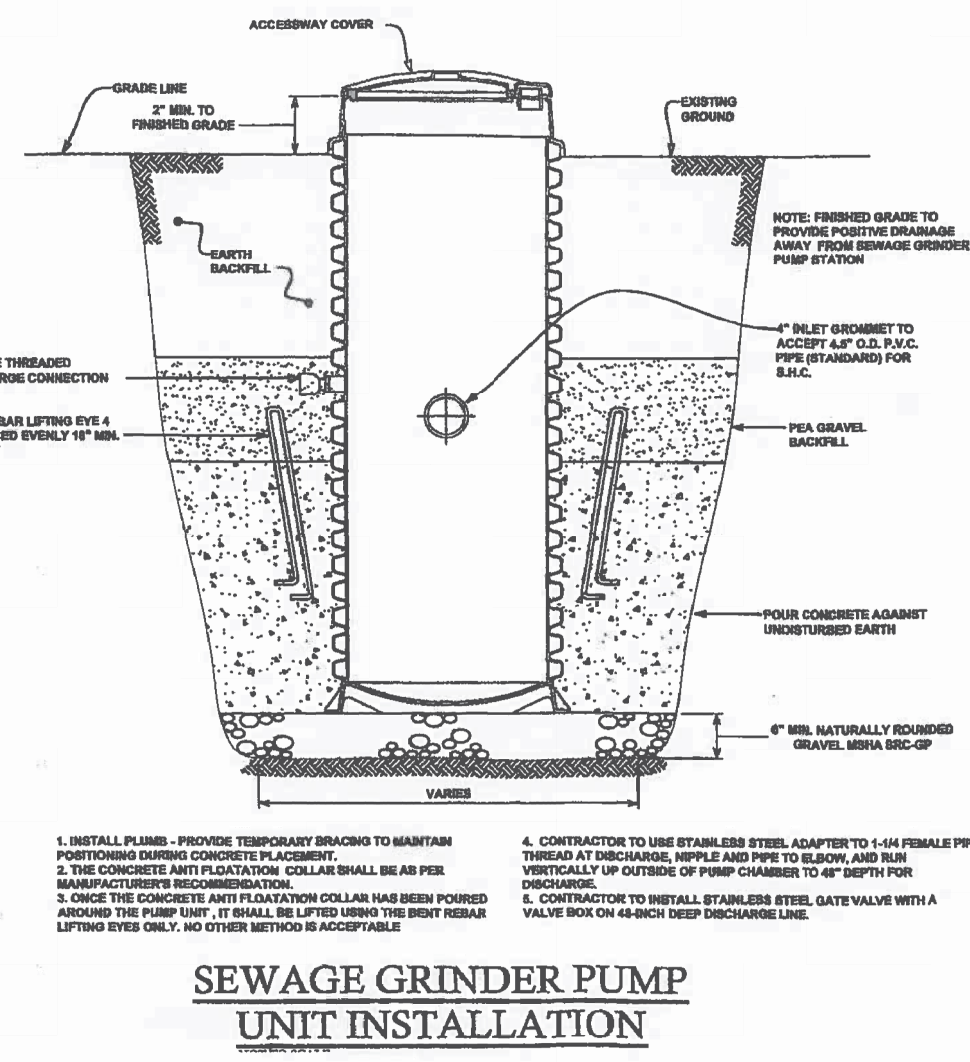
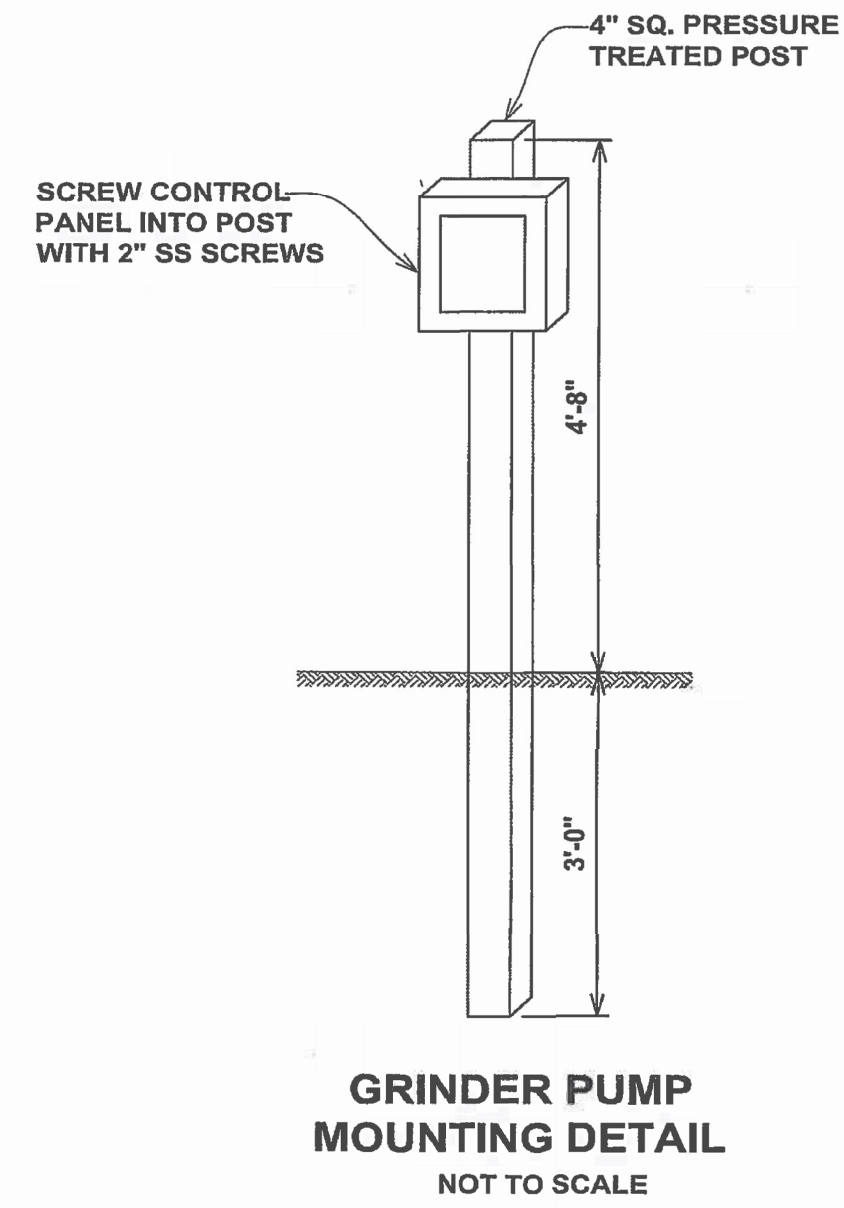
UTILITY PLAN FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 1, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1

REVISION

DATE	REVISION
10-19-23	PER TAC COMMENTS
11-15-23	PER MODT COMMENTS
5-24-24	PER TAC COMMENTS

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 1-410-262-9148
FAX: 1-410-262-9148

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY HEALTH DEPARTMENT
KENT COUNTY SOIL AND WATER CONSERVATION DISTRICT

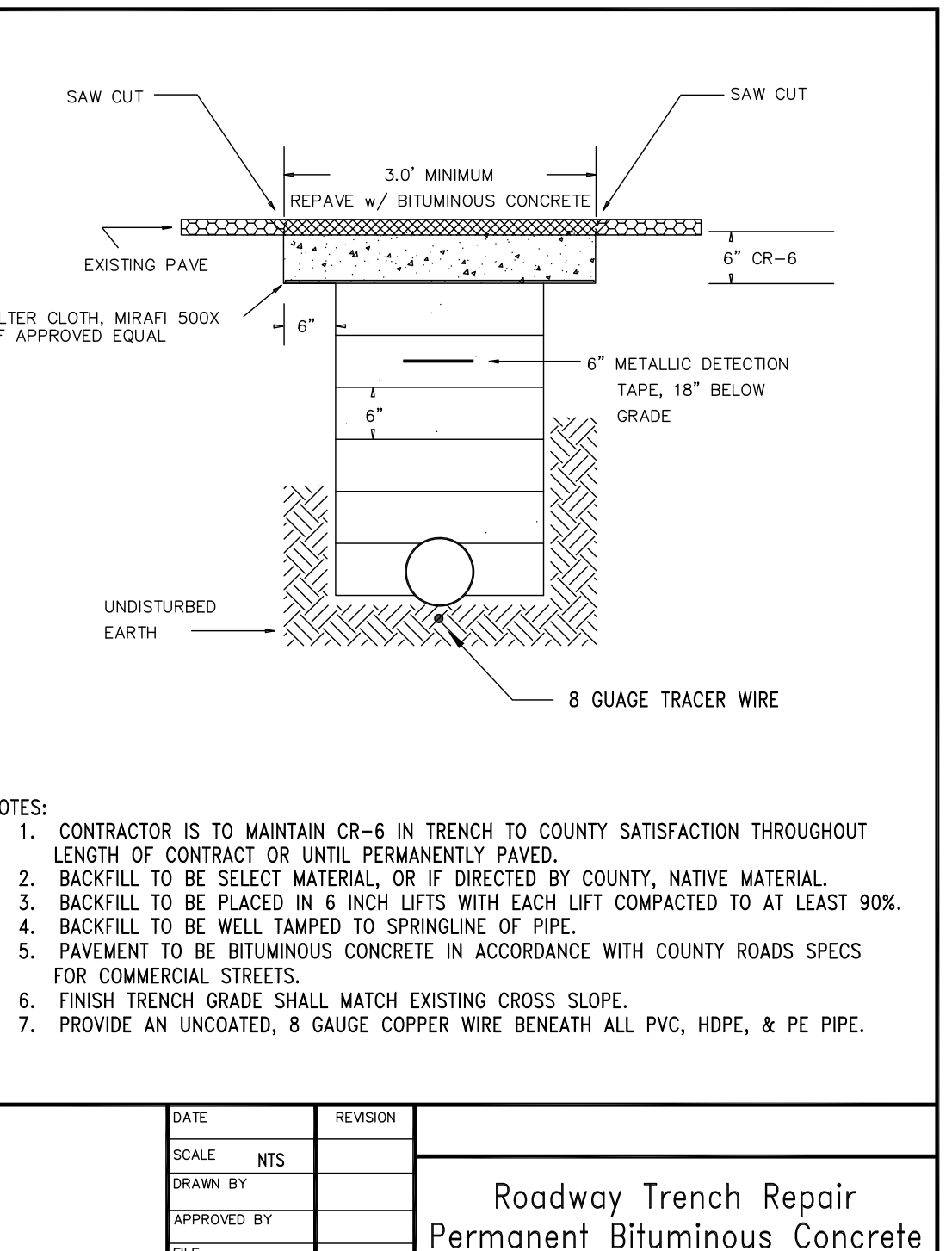
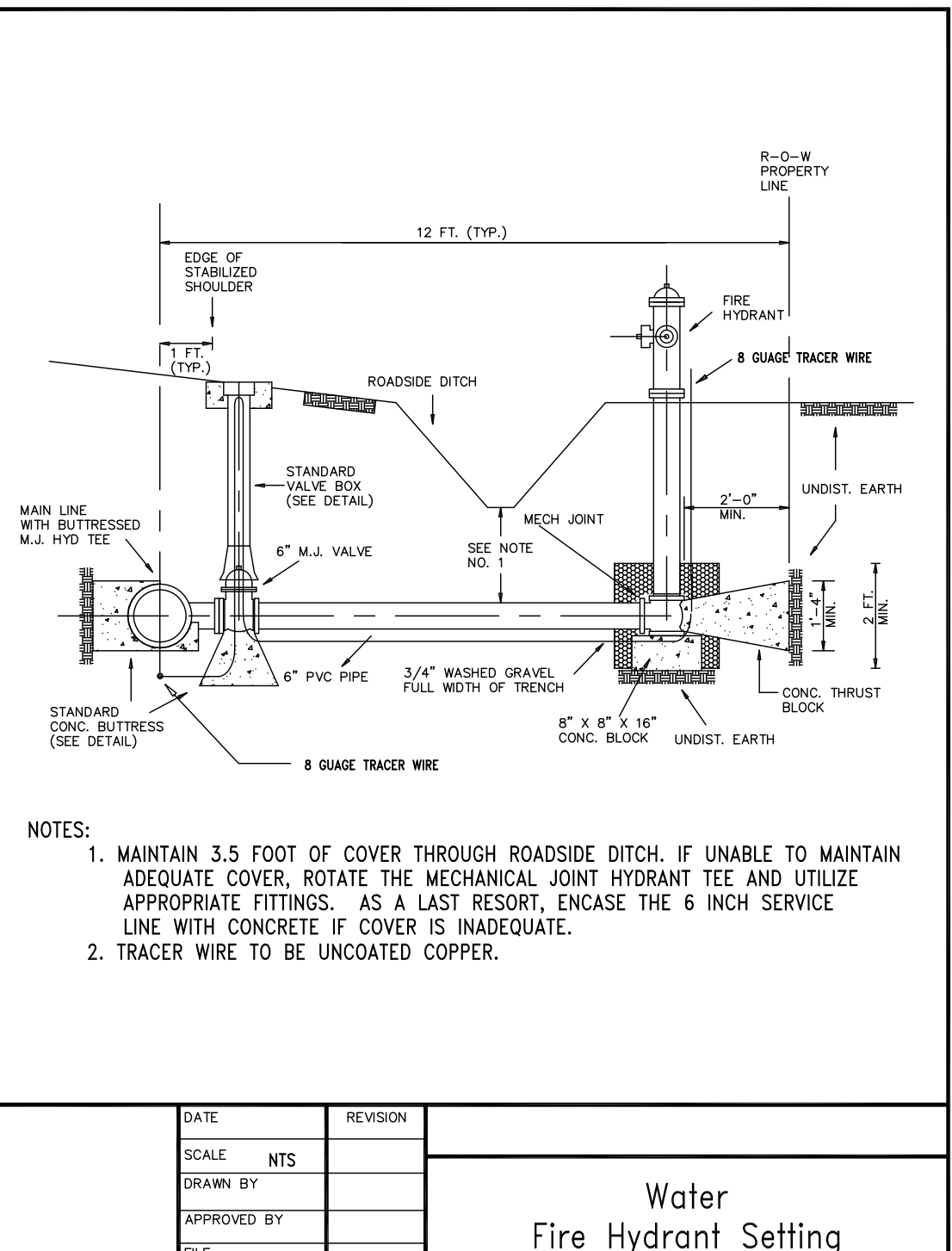
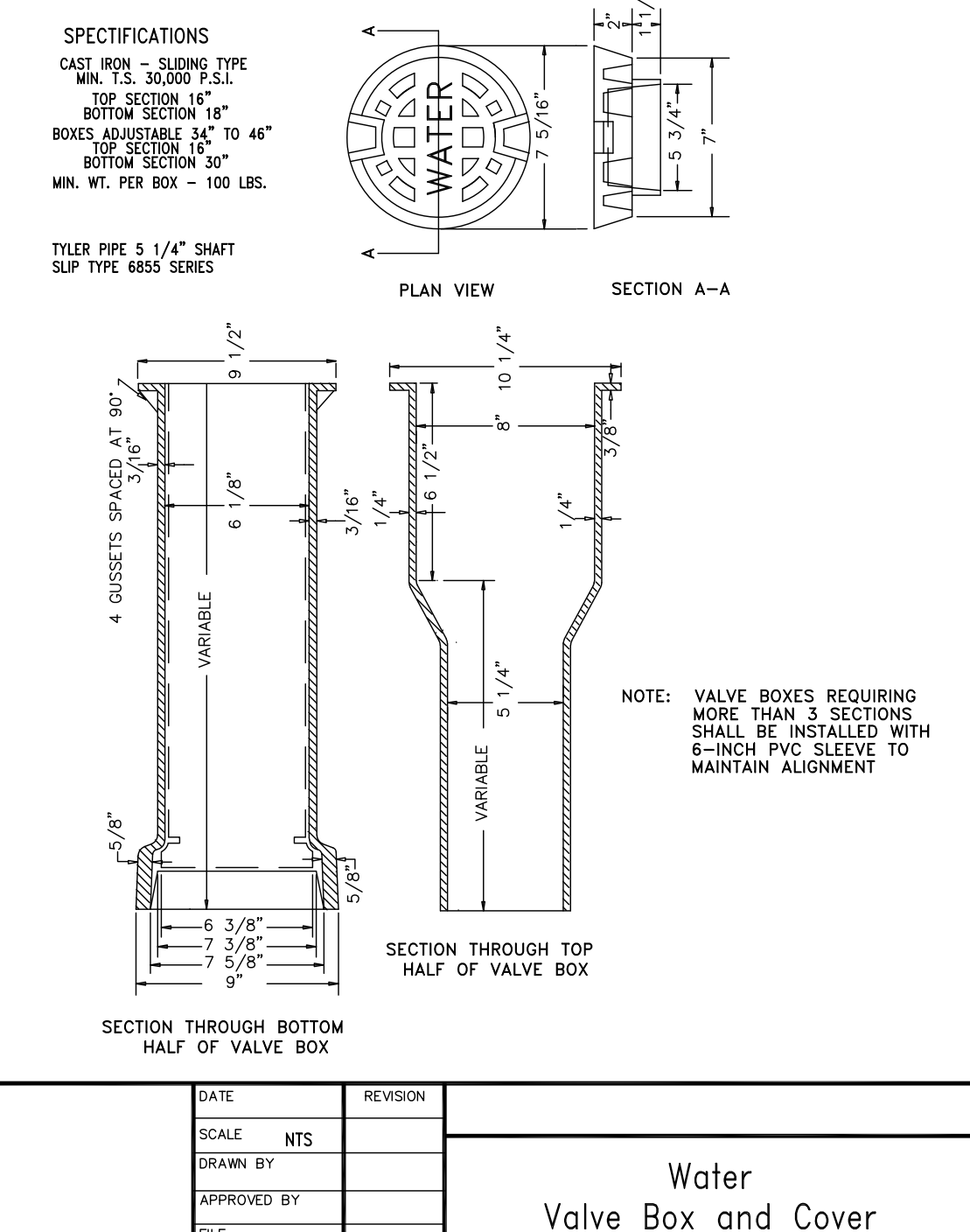
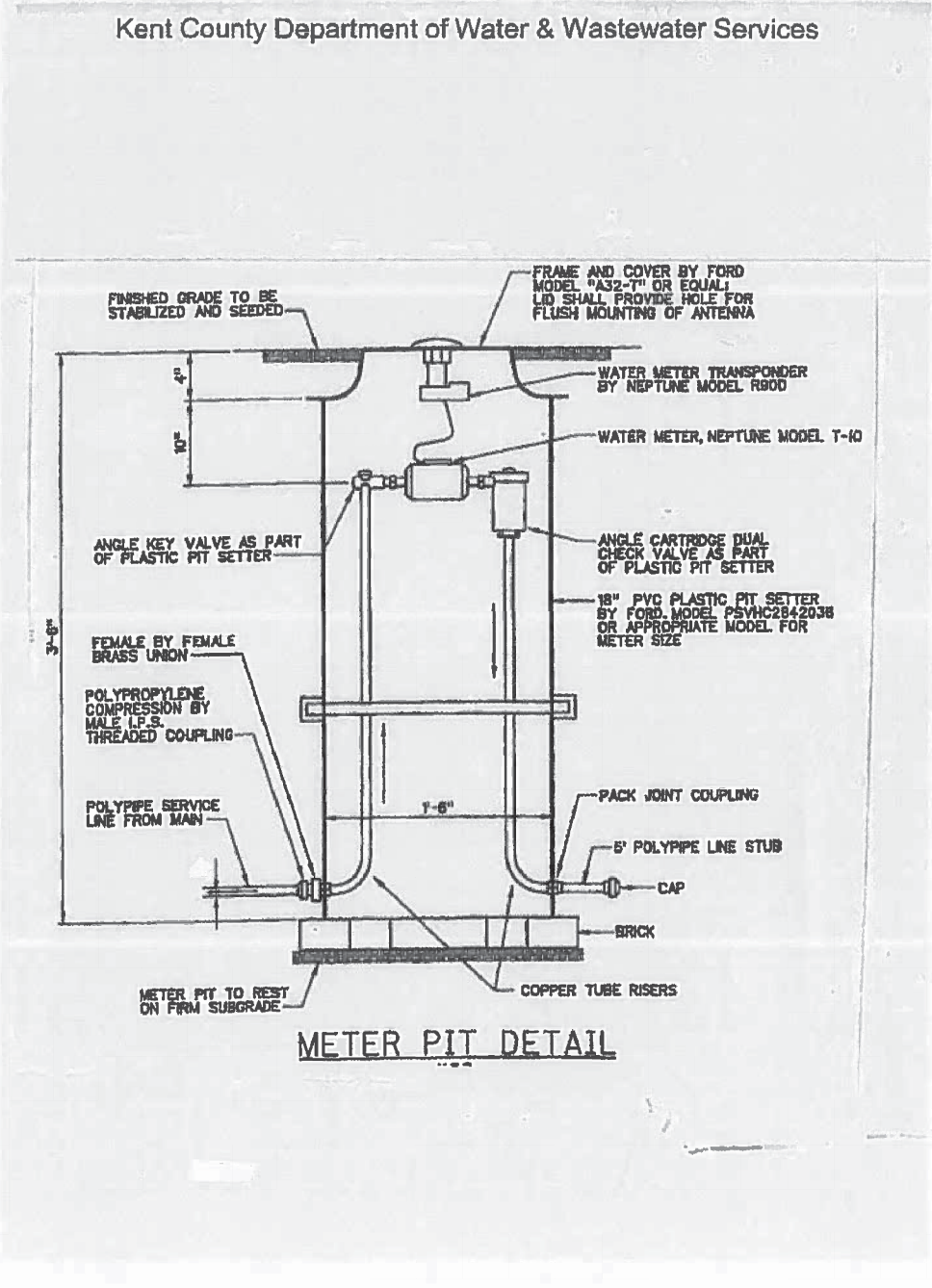


Notes:

- Right of Way clean outs are also necessary at the edge of any easements.
- Traffic Bearing Areas are defined as being in, or within 3 feet of, any paving, driveways, or any other area where vehicular traffic is likely.
- Tracer wire to be uncoated copper.

DATE	REVISION
01-08-09	

Gravity Sewer Cleanouts



REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT _____ DATE _____

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

Kent County Department of Planning and Zoning

Kent County Health Department

Seal of Kent County, Maryland

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 410-326-2622
FAX: 410-326-2622-9148

DATE: 10-18-23

REVISION PER TAC COMMENTS

UTILITY DETAILS FOR A

MANUFACTURING/WAREHOUSE BUILDING
ON LOT 1, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6-1

SCALE AS SHOWN

DATE: MARCH '23

JOB No. 202165

DRAWN BY: WJM

FOLDER No. 31-202165

DESIGNED BY: KJS

SHEET No. - C-5.00

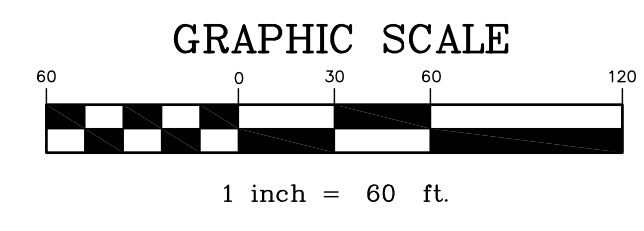
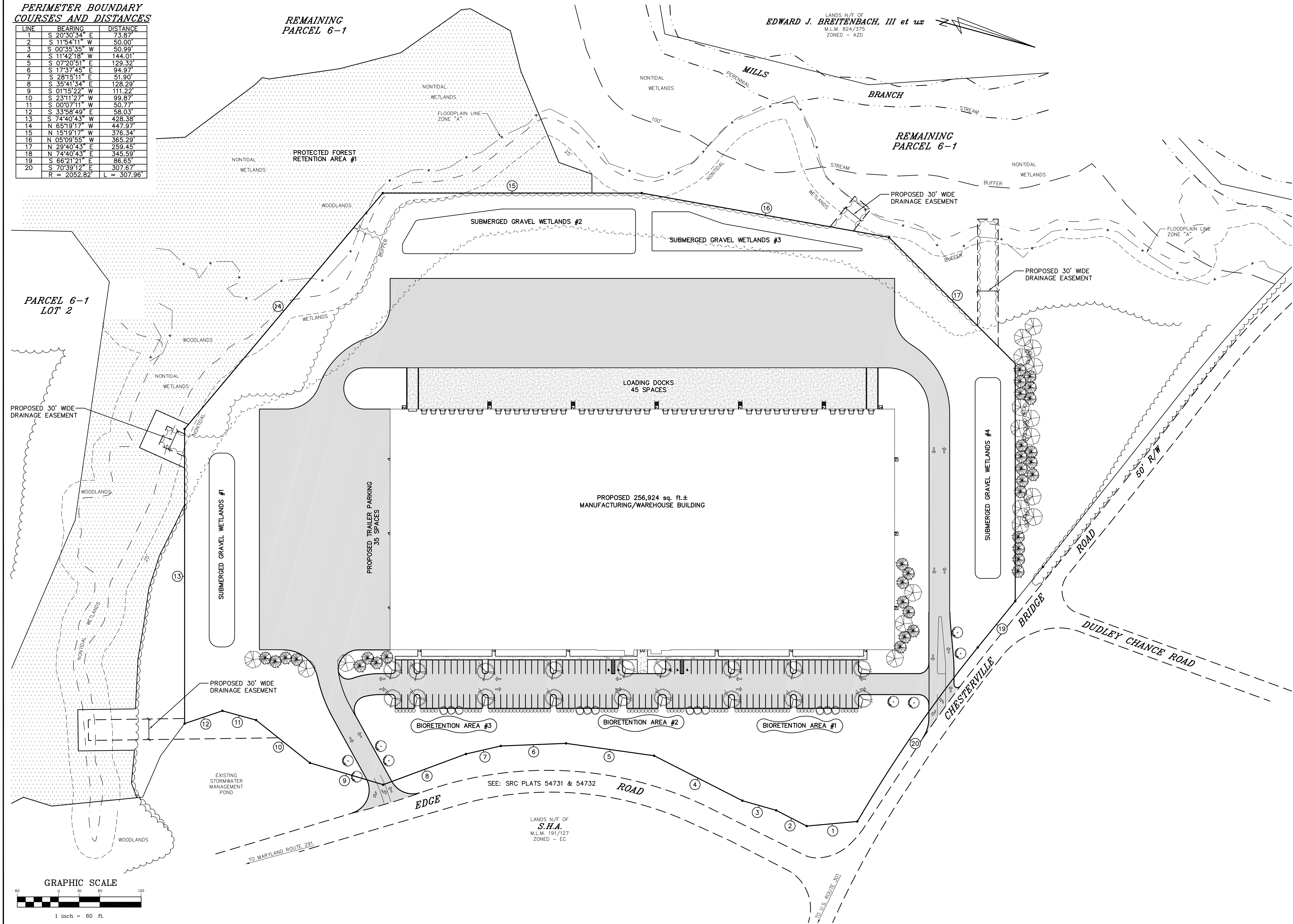
CADD FILE - 21165C500

PERIMETER BOUNDARY COURSES AND DISTANCES

LINE	BEARING	DISTANCE
1	S 20°30'34" E	73.87
2	S 11°54'11" W	50.00'
3	S 00°35'35" W	50.99'
4	S 11°42'18" W	144.01'
5	S 07°20'51" E	129.32'
6	S 1°37'45" E	94.97'
7	S 28°15'11" E	51.90'
8	S 35°41'34" E	128.29'
9	S 01°15'22" W	111.22'
10	S 23°11'27" W	99.87'
11	S 00°07'11" W	50.77'
12	S 33°58'49" E	58.03'
13	S 74°40'43" W	428.38'
14	N 65°19'17" W	447.97'
15	N 15°19'17" W	376.34'
16	N 05°09'55" W	365.29'
17	N 29°40'43" E	259.46'
18	N 74°40'43" E	345.59'
19	S 66°21'21" E	86.65'
20	S 70°39'12" E	307.67'
R = 2052.82'		L = 307.96'

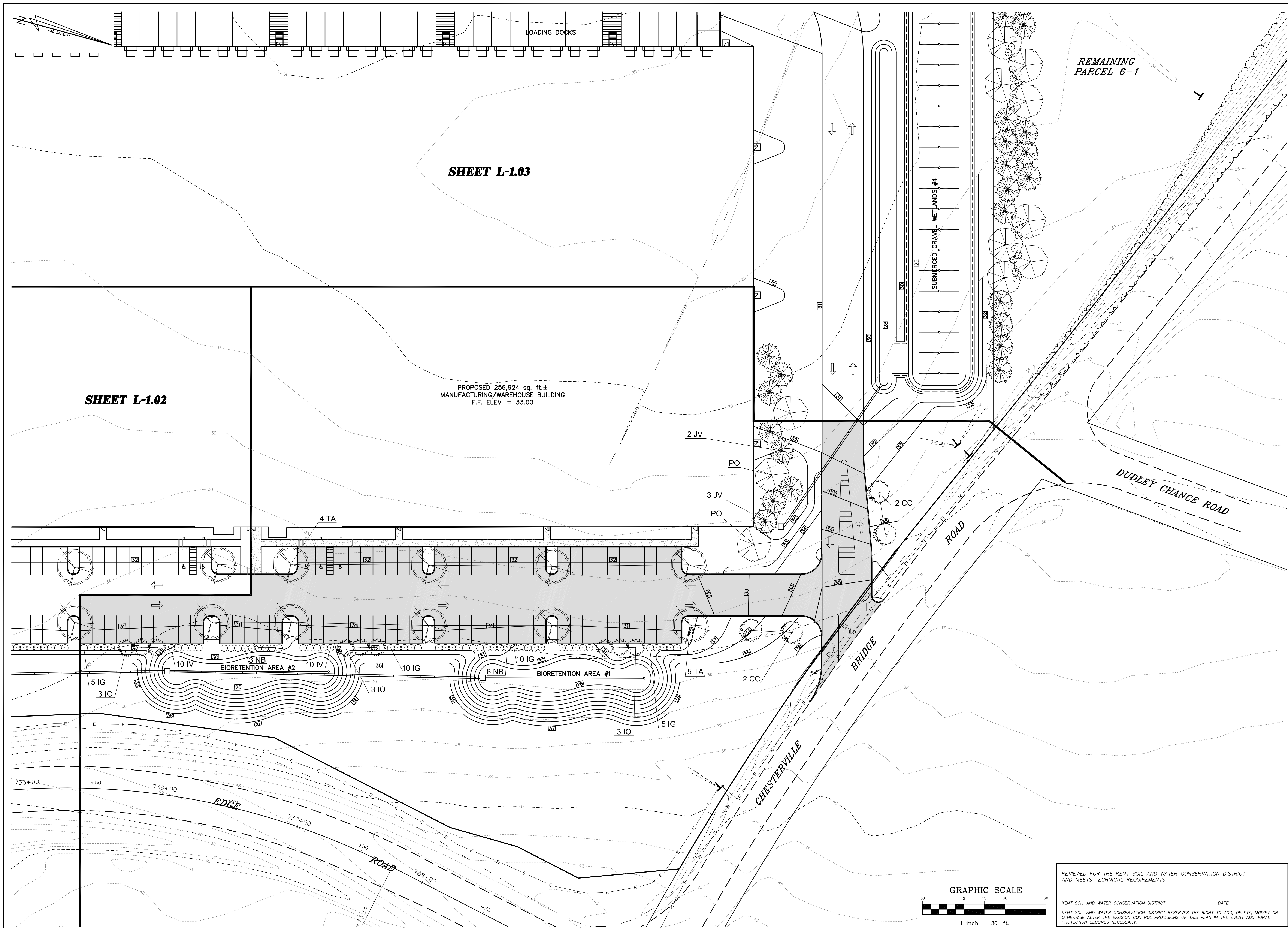
REMAINING PARCEL 6-1

LANDS N/E OF
EDWARD J. BREITENBACH, III et ux
M.L.M. 824/375
ZONED - AZD



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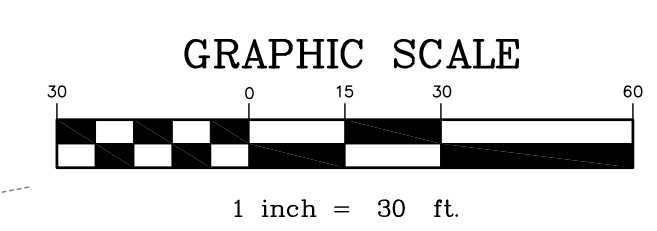
DATE: MARCH '23	SCALE: 1" = 60'	FOR A: MANUFACTURING/WAREHOUSE BUILDING	OVERALL LANDSCAPE PLAN
JOB No.: 2021165	DRAWN BY: VH	ON LOT 1, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC	
FOLDER Ref.: 31-2021165	DESIGNED BY: VH	FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON	
SHEET No.: L-1,100		TAX MAP - 31, GRID - 1E, PARCEL - 6-1	
CADD FILE - 21165L100			
DAVIS, MOORE, SHEARON & ASSOCIATES, LLC CENTREVILLE, MARYLAND 21617		HUSTEAD Landscape Architecture, LLC 120 Bay Meadows Lane, Stevensville, MD, 21666 Phone: 443.988.2294 E-mail: v.hustead@husteadia.com Web: www.husteadia.com	
WEST COUNTY DEPARTMENT OF PLANNING AND ZONING		WEST COUNTY DEPARTMENT OF PLANNING AND ZONING	
WEST COUNTY HEALTH DEPARTMENT		WEST COUNTY HEALTH DEPARTMENT	
WEST COUNTY SOLID AND WATER CONSERVATION DISTRICT		WEST COUNTY SOLID AND WATER CONSERVATION DISTRICT	
NOVEMBER 7, 2023 DATE		SEAL	



SHEET L-1.03

SHEET L-1.02

PROPOSED 256,924 sq. ft.±
MANUFACTURING/WAREHOUSE BUILDING
F.F. ELEV. = 33.00

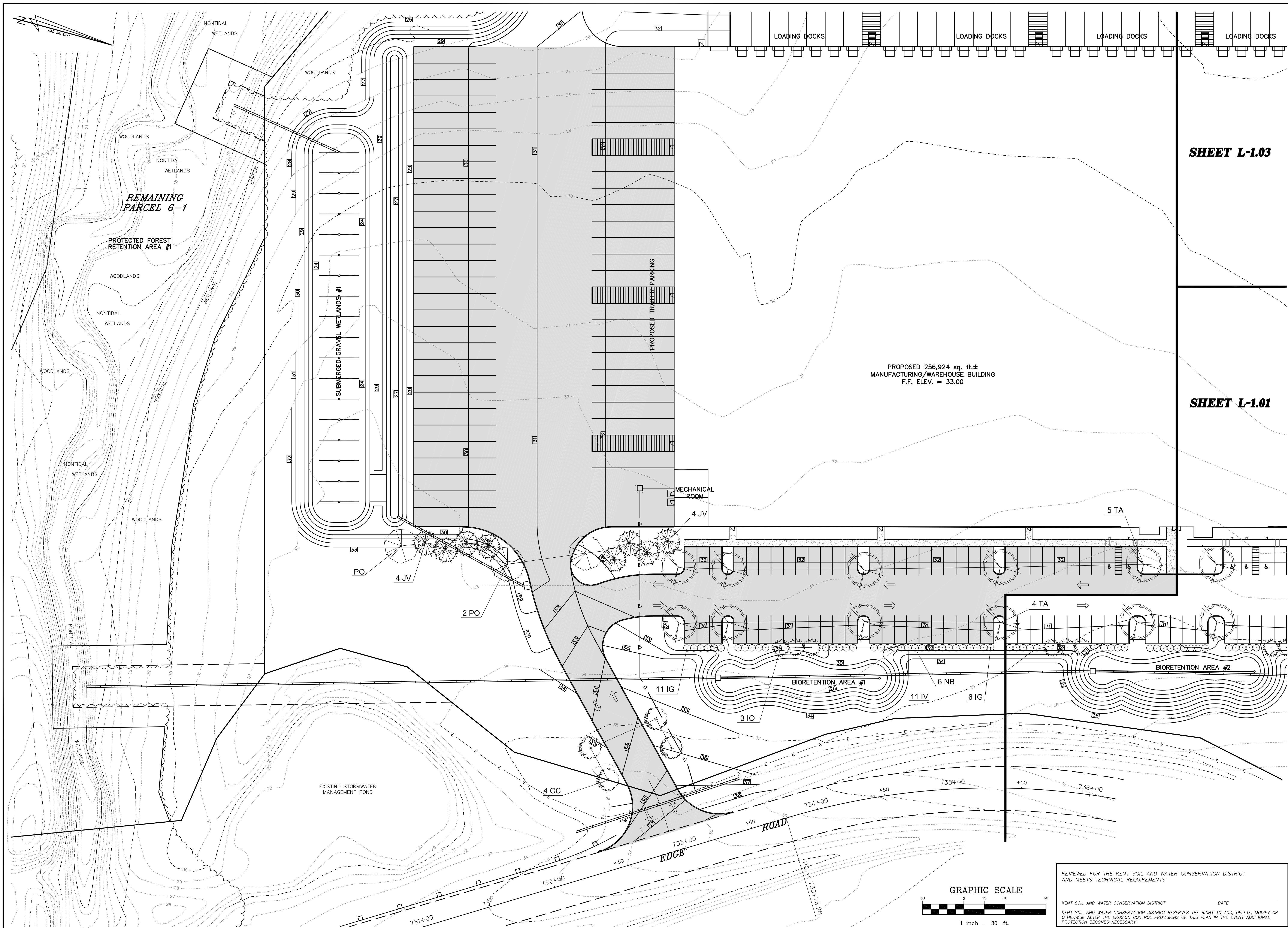


REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT _____ DATE _____

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

DATE	MARCH '23	SCALE	1" = 30'
JOB NO.	2021165	DRAWN BY	VH
FOLDER #4	31-2021165	DESIGNED BY	VH
SHEET No.	L-1.01		
CADD FILE	- 21165L101		
LANDSCAPE PLAN FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 1, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1			
<p>DAVIS, MOORE, SHEARON & ASSOCIATES, LLC CENTREVILLE, MARYLAND 21617</p> <p>HUSTEAD Landscape Architecture, LLC 120 Bay Meadows Lane, Stevensville, MD, 21666 Phone: 443.988.2294 E-mail: Vhustead@Husteadia.com Web: www.Husteadia.com</p>			
<p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>KENT COUNTY HEALTH DEPARTMENT</p> <p>KENT SOIL AND WATER CONSERVATION DISTRICT</p>			

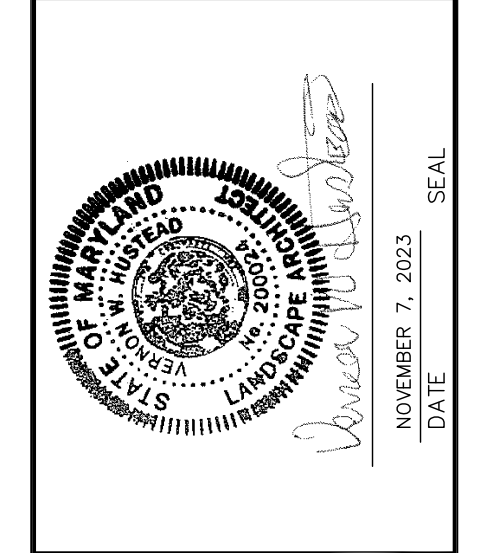


SHEET L-1.03

SHEET L-1.01

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY HEALTH DEPARTMENT
KENT SOIL AND WATER CONSERVATION DISTRICT

NOVEMBER 7, 2023
DATE

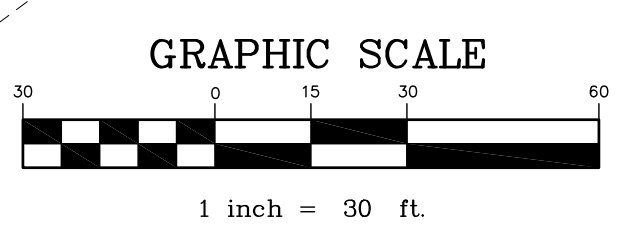


DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
CENTREVILLE, MARYLAND 21617
HUSTEAD Landscape Architecture, LLC
120 Bay Meadows Lane, Stevensville, MD, 21666
Phone: 443.988.2294
E-mail: Vhustead@HusteadIA.com Web: www.HusteadIA.com

DATE	REVISION
10-19-23	PER TAC COMMENTS
5-24-24	PER TAC COMMENTS

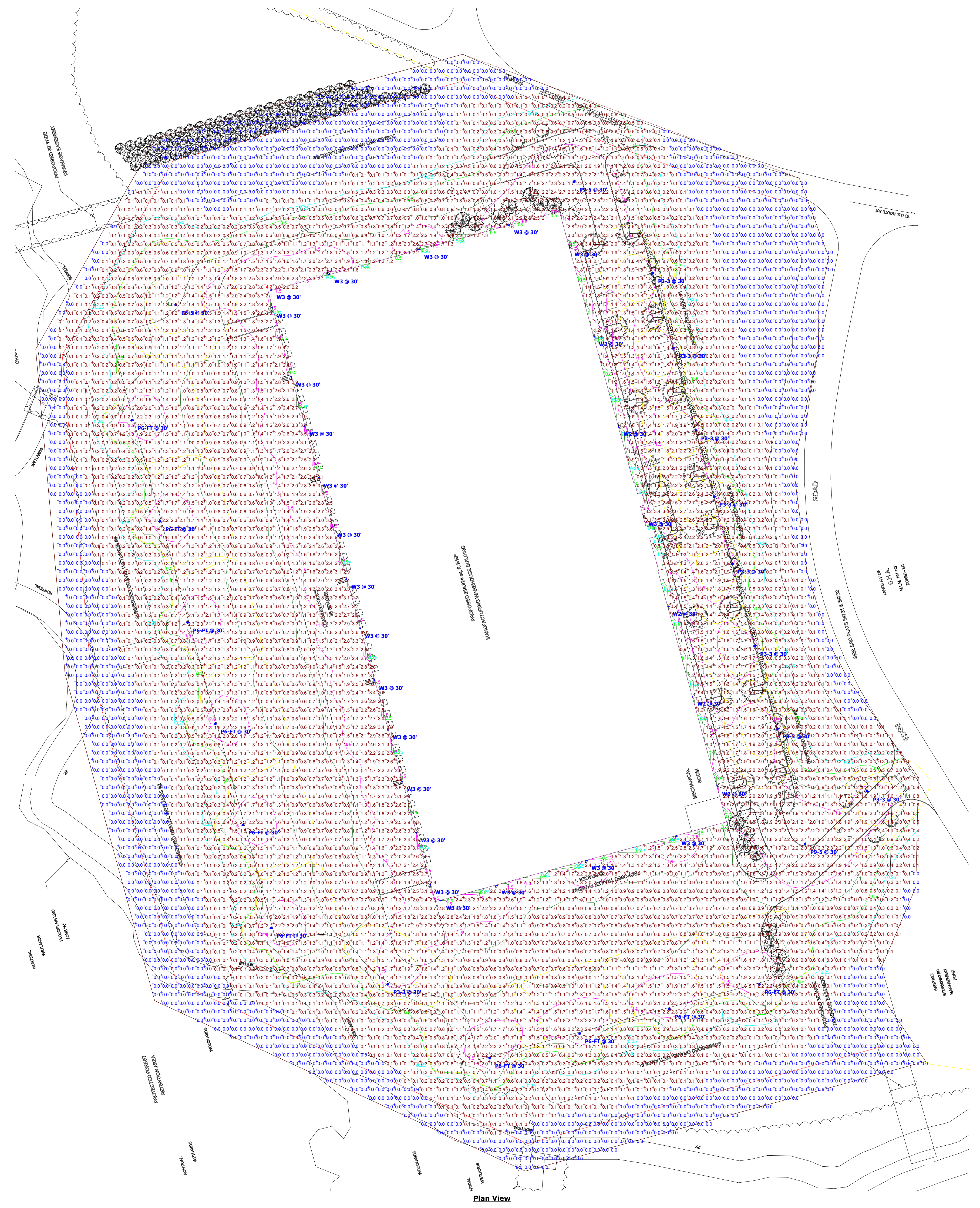
LANDSCAPE PLAN
FOR A
MANUFACTURING/WAREHOUSE BUILDING
ON LOT 1, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6-1

DATE: MARCH '23
SCALE: 1" = 30'
JOB No.: 2021165
DRAWN BY: VH
FOLDER #4: 31-2021165
DESIGNED BY: VH
SHEET No.: L-1.02
CADD FILE - 21165L102



REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
	P3-2		6	Lithonia Lighting	DSX1 LED P3 30K 70CRI T2M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 2 Medium	1	13055	0.95	102.17	
	P3-3		16	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 3 Medium	1	13206	0.95	102.17	
	P6-FT		22	Lithonia Lighting	DSX1 LED P6 30K 70CRI TFTM	D-Series Size 1 Area Luminaire P6 Performance Package 3000K CCT 70 CRI Forward Throw	1	20140	0.95	165.25	
	P6-5		3	Lithonia Lighting	DSX1 LED P6 30K 70CRI T5M	D-Series Size 1 Area Luminaire P6 Performance Package 3000K CCT 70 CRI Type 5 Medium	1	20579	0.95	165.25	
	P9-5		2	Lithonia Lighting	DSX1 LED P9 30K 70CRI T5M	D-Series Size 1 Area Luminaire P9 Performance Package 3000K CCT 70 CRI Type 5 Medium	1	34071	0.95	277.07	
	W2		8	Lithonia Lighting	WDGE2 LED P4 30K 70CRI T1S	WDGE2 LED WITH P4 - PERFORMANCE PACKAGE, 3000K, 70CRI, TYPE 1 SHORT OPTIC	1	4295	0.95	46.6589	
	W3		46	Lithonia Lighting	WDGE3 LED P4 70CRI R4 30K	WDGE3 LED WITH P4 - PERFORMANCE PACKAGE, 3000K, 70CRI, TYPE 4 OPTIC	1	11554	0.95	87.8914	

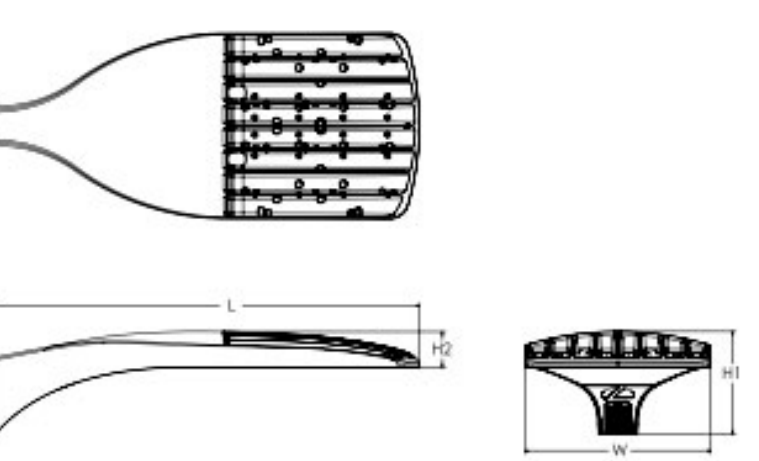


D-Series Size 1 LED Area Luminaire



Specifications

- EPA: 0.69 ft² (0.06 m²)
- Length: 32.71" (83.1 cm)
- Width: 14.26" (36.2 cm)
- Height H1: 7.88" (20.0 cm)
- Height H2: 2.73" (6.9 cm)
- Weight: 34 lbs (15.4 kg)



Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBXD

Series	LEDs	Color temperature ¹	Color Rendering Index ⁴	Distribution	Voltage	Mounting
DSX1 LED	Forward optics (this section 70CRI only)	30K 3000K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ¹ T4M Type IV medium T4LG Type IV low glare ¹ TFTM Forward throw medium	MVOLT (120V-277V) ¹⁴ HVOLT (347V-480V) ¹⁴ XVOLT (277V-480V) ¹⁴ 208 V.L. 240 V.L. 277 V.L. 347 V.L. 480 V.L.	Shipped included SPA Square pole mounting (R8 drilling) RPA Round pole mounting (R8 drilling) SPAS Square pole mounting (#5 drilling) RPAS Round pole mounting (#5 drilling) SPARN Square narrow pole mounting (#8 drilling) WBA Wall bracket ¹⁵ MA Mast arm adapter (mounts on 2.318" OD horizontal tenon)
	Rotated optics	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	80CRI 80CRI 80CRI 80CRI	LCCO Left corner cutoff ¹⁶ RCCO Right corner cutoff ¹⁶		

Control options	Other options	Finish options
Shipped installed NLTAR2 PIRHN Allight AIR gen 2 enabled with bi-level motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2K. ^{17, 18, 20, 21}	PER7 Seven-pin receptacle only (controls ordered separately) ^{19, 21} FAO Field adjustable output ^{19, 21} BL30 Bi-level switched dimming, 50% ^{19, 21} RL50 Bi-level switched dimming, 50% ^{19, 21} DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) ^{19, 21} DS Dual switching ^{19, 21, 22}	DBXD Dark Bronze DBLD Black DBND Natural Aluminum DWHK White DBDXT Textured dark bronze DBLBD Textured black DBNDX Textured natural aluminum DWHGD Textured white
PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2K. ^{18, 20, 21}		
PER NEEMA twist-lock receptacle only (controls ordered separately) ^{19, 21}		
PER5 Five-pin receptacle only (controls ordered separately) ^{19, 21}		
	Shipped separately EGSR External Glass Shield (reversible, field install required, matches housing finish) B5DB Bird Spikes (field install required)	

Kent County Department of Planning, Housing and Zoning

Kent County Government Center
400 High Street • Chestertown, MD 21620
410-778-7475 (phone) • 410-810-2932 (fax)

SITE PLAN APPLICATION

File Number: _____ **Amount Paid:** _____ **Date:** _____

Project Name: LOT 2 - Everton Industrial office/warehouse

District: 1st Map: 31 Parcel: 6-1 Lot Size: 20.665ac Deed Ref: MLM 892/458 Zoning: EC

LOCATION: west side of Maryland Route 301 near Millington, north of MD Rte 291 and south of Chesterville Bridge Road

PROPOSED USE: Industrial office/manufacturing/warehouse

OWNER OF LAND:

Name: Millington Crossing Associates I, LLC c/o Russ Richardson Telephone: 410-275-2714

Address: P.O. Box 546, Chester Heights, PA 19017 Email: russ.richardson@rpcrealtors.com

APPLICANT:

Name: Everton Industrial c/o Dan Gural Telephone: 609-929-6025

Address: 266 Atsion Road, Medford, NJ 08055 Email: dgural@evertonindustrial.net

AGENT/ATTORNEY (if any):

Name: _____ Telephone: _____

Address: _____ Email: _____

REGISTERED ENGINEER OR SURVEYOR:

Name: DMS & Associates, LLC c/o Kevin Shearon Telephone: 443-262-9130

Address: P.O. Box 80, Centreville, MD 21617 Email: kjs@dmsandassociates.com

Please provide the email of the one person who will be responsible for responding to comments. Only this person will be contacted by staff and will be the person responsible for forwarding the comments or requests for additional information to any other interested parties. EMAIL: kjs@dmsandassociates.com

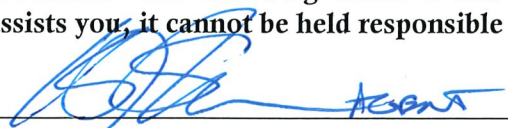
Water Supply: Public System On lot system

Sewerage: Public System On lot system

TELEPHONE SERVICED BY: Verizon

ELECTRIC SERVICED BY: Delmarva Power

NOTICE: The Planning Office is not required to make out this Application. If the Planning Department assists you, it cannot be held responsible for its contents.


Signature of Applicant

3/29/23
Date

Concept Plan Approving Authority: _____ Date _____

Preliminary Approving Authority: _____ Date _____

Final Approving Authority: _____ Date _____

PROJECT NARRATIVE

Everton Industrial Development Lot 2 of the lands of Millington Crossing Associates 1, LLC Near Millington, Maryland

In accordance with Article VI, Section 5.4.B of the Kent County Zoning Ordinance, we offer the following:

The site is located on the west side of Maryland Route 301 near the Town of Millington. Following a subdivision process, this property will be identified as Tax Map 31, Parcel 6-1, Lot 2. This lot and Lot 1 are being subdivided from an overall 114.499 acre parcel owned by Millington Crossing Associates 1, LLC. Everton Industrial Development is the contract purchaser of Lot 2.

The lot is zoned Employment Center (EC) and will be 20.665 acres. The proposed development includes a 256,924-sf flex manufacturing/warehouse building with associated parking and loading docks.

The building is proposed to be connected to the Town of Millington / Kent County public water and sewer systems. A 10" diameter water line will be extended from an existing 10" main at the intersection of Edge Road and West Edge Road. The new main will extend along Edge Road past the two proposed lots to the intersection of Chesterville Bridge Road where it will be capped for future extension (by others) to loop back to the Town of Millington. A service lateral will be installed to connect the building to the new main. Fire hydrants will be provided along the route.

The building will also be served by public sewer. A grinder pump will be installed at the building. A small diameter force main lateral will connect to a new public 2" force main that will run within MDOT SHA right-of-way to a connection point near Maryland Route 301 and West Edge Road.

Forest Conservation was addressed during the subdivision process and resulted in a deed restricted area of 6.41 acres.

In accordance with Section 14.9.B.1-7 we offer the following relative to standards for site design (responses in *italics*):

1. Site Access
 - a. Site access shall be subject to the following regulations to help ensure safety and alleviate traffic congestion:
 - i. Where property abuts a primary, secondary, or a collector road, access to the property shall be by way of the secondary or collector road. Exceptions to this rule shall be instances where the Planning Commission,



or where applicable the Planning Director, determines that direct access onto the primary road would promote traffic safety.

The proposed development is located just off of US Route 301, but takes access from Edge Road, a secondary road. Two combined tractor trailer and employee entrances are proposed to create a loop to the rear loading docks, and one dedicated employee/visitor entrance is proposed.

- ii. Where one or more contiguous parcels abutting a primary road are under single ownership and any one of the parcels abuts a secondary or collector road, access to the property shall be by of the secondary road. Exceptions to this rule shall be instances where the Planning Commission, or where applicable the Planning Director, determines that direct access onto the primary road would promote traffic safety.

N/A – access to a primary road is not proposed.

- iii. Only one direct approach onto a primary road from an individual parcel of record as of August 1, 1989 shall be permitted unless the Planning Commission, or where applicable the Planning Director, finds one of the following:

N/A – access to a primary road is not proposed.

- iv. An additional entrance is significantly beneficial to the safety and operation of the highway.
 - 1. One entrance is a safety hazard or increases traffic congestion.
 - 2. The property is bisected by steep slopes, bodies of water, or other topographic feature so as to render some portion of the property inaccessible without additional road access.

N/A – access to a primary road is not proposed.

- b. Where a proposed road is designated on an approved County or Town map, site plans for development adjacent to the designated roadway shall include provisions for future access to the roadway.

N/A – no new public roads are proposed.

- c. Existing, planned, or platted streets on adjacent properties shall be continued when the Planning Commission or where applicable the Planning Director determines that the continuation is necessary for safe and reasonable circulation between the properties.

To our knowledge there are no existing, planned or platted streets on adjacent properties that would need to be connected through this development.

- d. When deemed necessary by the Planning Commission or where applicable the Planning Director, developments shall provide access to adjacent tracts not presently developed.

Given the topography west of the proposed building sites, we request that a requirement to connect to adjacent tracts be waived.

- e. Access shall be consolidated whenever possible.

Tractor trailer and employee access points on either end of the building have been consolidated.

- f. Whenever possible, roads shall be constructed above the elevation of the 100-year floodplain.

The entire development envelope is above the 100-year floodplain.

- g. The applicant shall demonstrate that access to the project is adequate and the roads which will be impacted have the capacity to handle the traffic generated by the proposed project and will not endanger the safety of the general public.

A Traffic Impact Study was completed as part of the subdivision process. The results show that all of the surrounding intersections will operate at Level of Service A or B following this development.

2. On-site Circulation

- a. Sites shall be designed to prevent awkward or dangerous vehicular flow.

The site has been designed to separate employee/visitor vehicles from tractor trailers to the extent possible to promote a safer vehicular flow pattern.

- b. Loading and unloading spaces shall not block the passage of other vehicles on the service drive or major pedestrian ways or create blind spots when trucks are loading or unloading.

All loading and unloading spaces are located behind or to the side of the building, away from other employee/visitor vehicles.

- c. Sites shall be designed to discourage pedestrians and vehicles from sharing the same pathways.

Sidewalks have been provided along the building façade to aid in separating pedestrians from vehicles.

- d. Safe, convenient, and centralized handicap parking shall be provided.

All ADA compliant spaces have been located closest to pedestrian entrance doors.

- e. Trash boxes must be accessible to collection trucks when all vehicle parking spaces are filled.

Trash corrals will be located to the rear of the buildings to avoid conflict with employee/visitor vehicles.

- f. Parking shall not be permitted in the required front yard.

With approval of the requested 50-ft width, no parking is located within the front yard.

3. Floodplain

- a. In order to prevent excessive flood damage and to allow for the protection of the natural and beneficial floodplain functions, all development, new construction, and substantial improvements to existing structures in all floodplain zones shall comply with the requirements of Article VI, Section 7 of this Ordinance, including but not limited to the following:

- i. Elevation of all new or substantially improved structures;
- ii. Compliance with venting and other construction standards; and
- iii. Submission and recordation, where applicable, of Elevation Certificates, Declaration of Land Restrictions, deed restrictions, and venting affidavits.

N/A – development area is not within the floodplain.

- b. Placement of buildings and materials. In general, buildings and accessory structures should be located entirely out of the floodplain, out of the flood protection setback, or on land that is least susceptible to flooding. All structures permitted in the floodplain shall be oriented so as to offer the least resistance to the flow of floodwaters.

The proposed building is located out of the floodplain.

- c. General development shall not occur in the floodplain where alternative locations exist. Before a permit is issued, the applicant shall demonstrate that new structures cannot be located out of the floodplain and that encroachments onto the floodplain are minimized.

N/A – development area is not within the floodplain.

4. General Landscape Requirements

- a. The front yard shall be landscaped and shall be maintained in a neat and attractive condition.

The front yards will be landscaped and maintained in a neat and attractive condition.

- b. Sites shall be permanently maintained in good condition with at least the same quality and quantity of landscaping as originally proposed.

So noted.

- c. The landscape plan shall be prepared by a registered professional forester, landscape architect, or other professional with equivalent experience and qualifications.

The landscape plan will be designed by a licensed landscape architect.

- d. The Planning Commission, or where applicable the Planning Director, may waive the landscape requirements when it is demonstrated that the spirit and intent of the requirement is accomplished through other means or the nature of the change is one that does not require additional landscaping.

So noted.

5. Screening

- a. Screening is required to protect adjoining properties and roadways from noise, glare, and uses which are visually incompatible with neighboring land uses. Screening is required:

- i. On sites which involve loading or unloading (including the storage of vehicles and boats), trash, or disposal areas and where accessory buildings and structures are adjacent to residential properties.

The site layouts have been designed to have all loading / unloading areas facing away from adjacent properties and public roads to the extent possible. Screening has been provided where areas may be visible.

- ii. Where exterior storage areas are visible from roadways, sidewalks, or nearby residential properties.

N/A

- iii. When noise not typically occurring in residential areas is expected to project onto nearby properties.

It is not anticipated that excessive noise will occur at this site. Once an end user is identified, we will provide information relative to the Industrial Performance Standards.

- iv. To screen parking areas from motorists, pedestrians, and adjoining residential properties.

Natural screening exists for these properties between Edge Road and US Route 301. Screening has been provided where areas may be visible.

- v. Where the industrial district abuts a residential district or a primary or secondary road.

N/A – this lot does not abut a residential district.

- vi. Where the Planning Commission determines that additional screening is necessary to protect properties in the area.

So noted.

- b. Landscaped screens shall be designed to complement other landscaping occurring naturally on the site, planted previously, or approved as a part of a site plan review. Whenever possible, existing vegetation and landform shall be used to create screens.

Natural screening exists onsite as well as on adjacent properties between Edge Road and US Route 301. Screening has been provided where areas may be visible.

- c. The screen shall be capable of providing year round screening.

Screening added is evergreen to provide year round screening.

- d. When noise is likely to be a factor, the screen shall be of sufficient construction to be an effective noise buffer.

So noted.

- e. Screening shall consist of trees and plants and may include masonry, or wooden fencing used with or without berms. Screening shall consist of a functional and well-designed combination of the following:

- i. Vegetative ground cover
- ii. Coniferous and deciduous shrubs
 - 1. Specimens of which will reach and maintain a minimum height of 5 feet of full vegetative growth.
 - 2. Plants which measure a minimum of 3 feet in height at the time of planting and are expected to attain a 5-foot height within 3 years.
 - 3. Coniferous and deciduous trees Species and sizes of which will be chosen to best accomplish an adequate screen (i.e., evergreens used for visual screening, deciduous trees for seasonal screening)

So noted.

- f. Natural slopes and existing vegetation may be substituted for some or all of the requirements above, provided that these features serve to screen the area from adjoining properties and roadways. The Planning Commission, or where applicable the Planning Director, shall determine the acceptability of using existing slopes and vegetation for this purpose. The Planning Commission, or where applicable the Planning Director, may waive screening where it is physically impossible to accomplish.

So noted.

- g. Screening and fencing shall be maintained in at least the same quality and quantity as initially approved.

So noted.

6. Lighting

- a. Lighting on the site shall be designed to avoid glare onto adjacent properties.
All site lighting will be dark sky compatible and will be directed downward to avoid glare onto adjacent properties.
- b. Lighting on the site shall be sufficient to provide for the safety and security of the business, its employees, and its customers.
A lighting plan will be developed to provide a safe and secure environment for the business, its employees, and its customers / guests.

7. Site Planning External Relationship: Site planning within the District shall provide protection of individual lots from adverse surrounding influences and for protection of surrounding areas from adverse influences existing within the District. In particular:

- a. Principal vehicular access points shall be designed to encourage smooth traffic flow with controlled turning movements and minimum hazards to vehicular or pedestrian traffic. Storage, turn lanes, or traffic dividers may be required by the Planning Commission where existing or anticipated heavy flows indicate need. In general, streets shall not be connected with streets outside the District in such a way as to encourage the use of such streets by substantial amounts of through traffic.

Two combined tractor trailer and employee entrances are proposed to create a loop to the rear loading docks, and one dedicated employee/visitor entrance is proposed.

- b. Yards, fences, walls, or vegetative screening shall be provided where needed to protect residential districts or public streets from undesirable views, lighting, noise, or other offsite influences. In particular, outdoor storage, extensive off-street parking areas, and service areas for loading and unloading vehicles, and for storage and collection of refuse and garbage shall be effectively screened.

Additional screening has been added.

This project is consistent with the Kent County Comprehensive Plan. The following are excerpts from the plan that show consistency with the proposed subdivision:

- Promote the development of the County employment centers.
 - The subdivision is proposed in the Employment Center zoning district which allows a variety of industrial scale developments.
- The County can encourage potential employers to locate in areas where employment and industrial uses are desirable and compatible.
- The County can also provide a stronger commercial/industrial tax base to help balance County tax revenues.
- Expand regulatory flexibility for the creation of and location of employment centers and industrial uses...Theses efforts will especially focus on the Worton area, and the US 301

corridor with a priority that the area between the Town of Millington and the lands surrounding the Route 291-Route 301 intersection be guided by the desired expansion of services and land use identified by Millington's municipal growth element.

Following recordation of the subdivision plats, Lots 1 & 2 will be owned, developed, and maintained by Everton Industrial Development, LLC, 266 Atsion Road, Medford, New Jersey, 08055. The balance of the parcel will be owned and maintained by Millington Crossing Associates 1, LLC, P.O. Box 546, Chester Heights, Pennsylvania, 19017.

Stormwater management has been addressed using Environmental Site Design to the Maximum Extent Practicable. A Stormwater Management Report has been provided.

INDUSTRIAL PERFORMANCE STANDARDS

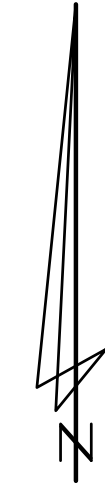
Everton Industrial Development Lot 2 of the lands of Millington Crossing Associates 1, LLC Near Millington, Maryland

In accordance with Article V, Section 15.6 of the Kent County Zoning Ordinance, the following will be addressed once an end user has been identified:

1. NOISE
2. VIBRATION
3. GLARE
4. AIR POLLUTION
5. WATER POLLUTION
6. RADIOACTIVITY
7. ELECTRICAL INTERFERENCE
8. SMOKE AND PARTICULATE MATTER
9. TOXIC MATTER
10. ODOROUS MATTER

SITE STATISTICS

OVERALL SITE STATISTICS	
GROSS SITE AREA	= 114,499 ac.±
NON-CRITICAL AREA	= 110,454 ac.±
CRITICAL AREA	= 4,045 ac.±
GROSS SITE AREA	= 114,599 ac.±
ZONE (EC)	= 81,307 ac.±
ZONE (AZD)	= 25,787 ac.±
ZONE (RCD)	= 7,406 ac.±
AREA WITHIN ZONE (EC)	= 81,307 ac.±
NON-CRITICAL AREA	= 81,307 ac.±
CRITICAL AREA	= 0,000 ac.±
AREA WITHIN ZONE (RCD)	= 7,406 ac.±
NON-CRITICAL AREA	= 3,361 ac.±
CRITICAL AREA	= 4,045 ac.±
REMAINING PARCEL 6-1 SITE STATISTICS	
GROSS SITE AREA	= 73,291 ac.±
NON-CRITICAL AREA	= 69,246 ac.±
CRITICAL AREA	= 4,045 ac.±
GROSS SITE AREA	= 73,291 ac.±
ZONE (EC)	= 40,099 ac.±
ZONE (AZD)	= 25,787 ac.±
ZONE (RCD)	= 7,406 ac.±
AREA WITHIN ZONE (EC)	= 40,099 ac.±
NON-CRITICAL AREA	= 40,099 ac.±
CRITICAL AREA	= 0,000 ac.±
AREA WITHIN ZONE (RCD)	= 7,406 ac.±
NON-CRITICAL AREA	= 3,361 ac.±
CRITICAL AREA	= 4,045 ac.±



PERIMETER BOUNDARY COURSES AND DISTANCES

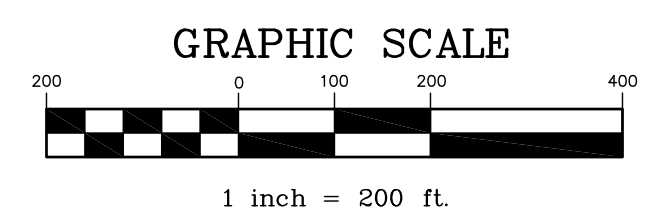
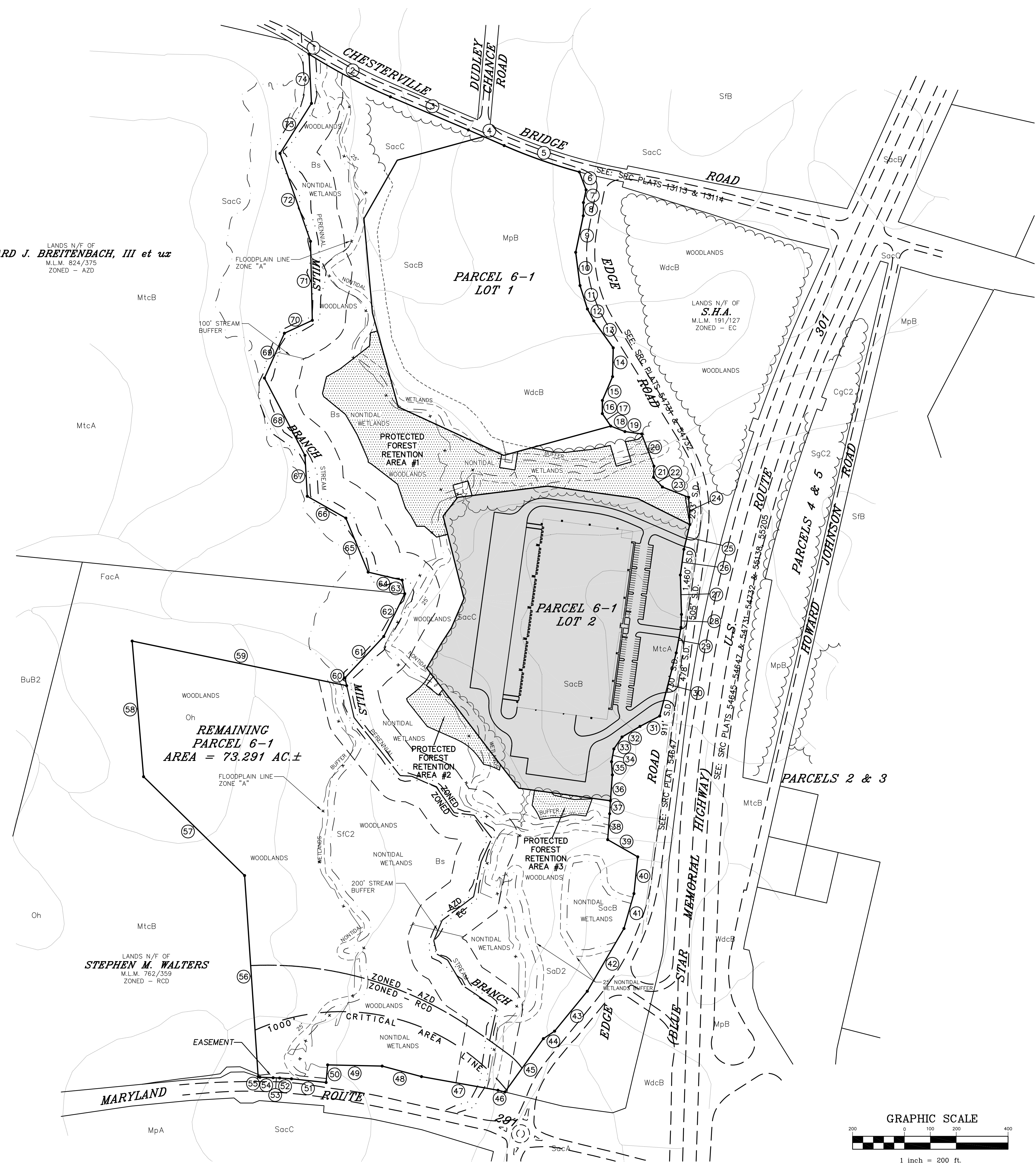
LINE	BEARING	DISTANCE
1	S 57°41'34" E	1.51'
2	S 62°21'18" E	352.90'
	R = 2182.12'	353.28'
3	S 66°59'35" E	326.95'
4	S 66°21'21" E	150.72'
5	S 70°39'12" E	307.87'
	R = 2052.82'	307.96'
6	S 20°30'34" E	73.87'
7	S 11°54'11" W	50.00'
8	S 00°35'35" W	50.99'
9	S 11°42'18" W	144.01'
10	S 07°20'51" E	129.32'
11	S 17°37'45" E	94.97'
12	S 28°15'11" E	51.90'
13	S 35°41'34" E	128.29'
14	S 01°15'22" E	111.22'
15	S 23°11'27" W	99.87'
16	S 00°07'11" W	50.77'
17	S 33°58'49" E	58.03'
18	S 68°40'47" E	58.60'
19	S 81°58'30" E	65.30'
20	S 20°54'55" E	133.03'
21	S 01°54'51" W	43.01'
22	S 42°19'28" E	50.50'
23	S 68°28'35" E	109.20'
24	S 02°01'44" E	105.02'
25	S 13°28'01" W	98.49'
26	S 07°48'59" W	100.00'
27	S 01°38'45" E	152.07'
28	S 02°06'21" W	50.25'
29	S 10°40'44" W	100.13'
30	S 14°39'33" W	251.79'
31	S 62°16'44" W	86.02'
32	S 59°22'45" W	80.43'
33	S 34°32'53" W	55.90'
34	S 10°06'25" W	50.04'
35	S 03°29'37" E	50.99'
36	S 04°22'58" W	100.18'
37	S 03°14'33" W	50.16'
38	S 04°22'58" W	100.18'
39	S 60°13'23" E	133.70'
40	S 05°56'11" W	142.56'
41	S 15°54'12" W	140.25'
42	S 30°18'58" W	280.31'
43	S 39°20'21" W	199.09'
44	S 68°03'57" W	52.20'
45	S 35°48'22" W	253.75'
46	N 76°14'08" W	27.73'
47	N 79°51'28" W	299.63'
48	N 75°01'11" W	157.13'
49	N 88°44'55" W	210.47'
50	S 04°59'46" W	68.07'
51	N 84°00'32" W	134.29'
52	N 86°13'17" W	45.78'
53	N 87°05'47" W	25.44'
54	N 88°02'02" W	50.87'
55	N 71°20'33" W	7.19'
56	N 03°51'09" W	778.07'
57	N 45°37'09" W	545.42'
58	N 04°49'35" W	525.33'
59	S 78°14'39" E	845.55'
60	N 11°59'39" W	30.93'
61	N 43°08'31" E	218.92'
62	N 26°05'41" E	183.60'
63	N 10°37'15" W	53.45'
64	N 78°44'35" W	134.76'
65	N 22°27'55" W	225.56'
66	N 60°27'05" W	171.11'
67	N 03°08'55" W	158.05'
68	N 27°39'55" E	336.87'
69	N 24°01'05" E	189.38'
70	N 65°08'05" E	118.58'
71	N 01°18'25" W	305.01'
72	N 19°07'05" W	359.26'
73	N 32°10'35" E	228.01'
74	N 02°50'27" W	190.14'

LEGEND

- DEED POINT (UNLESS OTHERWISE NOTED)
- ZONING LINE
- EDGE OF EXISTING/PROPOSED WOODLINE
- FLOOD PLAIN LINE
- PERENNIAL STREAM
- NONTIDAL WETLAND MARGIN
- 25' BUFFER FROM NONTIDAL WETLANDS BUFFER
- SOILS LINE AND TYPE

LANDS N/E OF
EDWARD J. BREITENBACH, III et ux
M.L.M. 824/375
ZONED - AZD

LANDS N/F OF
STEPHEN M. WALTERS
M.L.M. 762/359
ZONED - RCD



<p>DAVIS, MOORE, SHEARON & ASSOCIATES, LLC ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING P.O. BOX 80 CENTREVILLE, MARYLAND 21117 PHONE : 1-443-262-9148 FAX : 1-443-262-9148</p>		<p>DATE: MARCH '23 JOB No.: 2021165 DRAWN BY: WJM FOLDER Ref.: 31-2021165 DESIGNED BY: KJS SHEET No.: C-2.00 CADD FILE - 21165C2200</p>
<p>OVERALL SITE PLAN FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 2, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1</p>		<p>REVISION DATE PER TAC COMMENTS 5-24-24</p>
<p>DATE: MARCH '23 JOB No.: 2021165 DRAWN BY: WJM FOLDER Ref.: 31-2021165 DESIGNED BY: KJS SHEET No.: C-2.00 CADD FILE - 21165C2200</p>		<p>SCALE: 1" = 200' DRAWN BY: WJM DESIGNED BY: KJS</p>
<p>DATE: MARCH '23 JOB No.: 2021165 DRAWN BY: WJM FOLDER Ref.: 31-2021165 DESIGNED BY: KJS SHEET No.: C-2.00 CADD FILE - 21165C2200</p>		<p>DATE: MARCH '23 JOB No.: 2021165 DRAWN BY: WJM FOLDER Ref.: 31-2021165 DESIGNED BY: KJS SHEET No.: C-2.00 CADD FILE - 21165C2200</p>

SHEET C-2.04

SHEET C-2.05

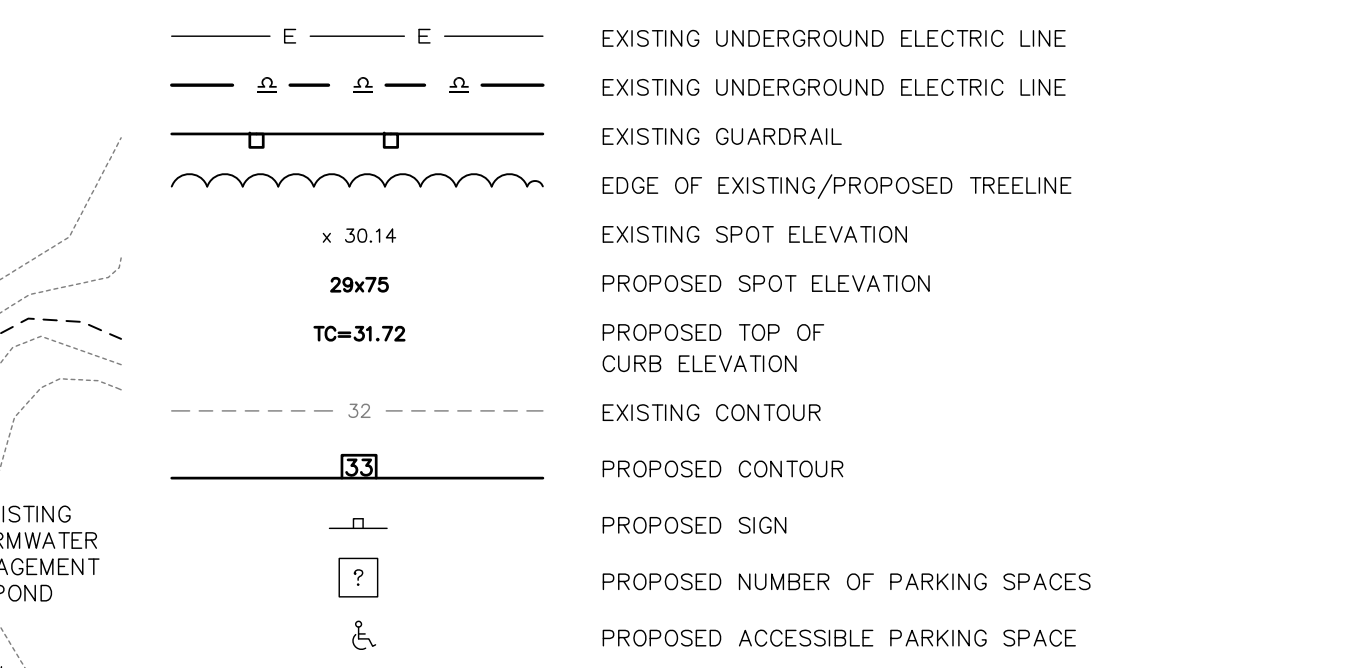
LOADING DOCKS

LOADING DOCKS

LOADING DOCKS

- DRAWING NOTES**
(APPLY TO THIS DRAWING ONLY)
- PROPOSED WAREHOUSE/MANUFACTURING BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.
 - PROVIDE HEAVY DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
 - PROVIDE MEDIUM DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
 - PROVIDE 6" CONCRETE CURB AND GUTTER PER DETAIL (RD-103.02) ON SHEET C-5.01.
 - PROVIDE DEPRESSED CONCRETE CURB AND GUTTER PER DETAIL (MD-620.03) ON SHEET C-5.01.
 - PROVIDE STANDARD 2' CURB DEPRESSION OPENING PER DETAIL ON SHEET C-5.01.
 - PROVIDE CONCRETE SIDEWALK (5' WIDE min.) PER A.D.A. STANDARDS. SEE DETAIL (RD-104.01) ON SHEET C-5.01.
 - PROVIDE 5'x5' CONCRETE PAD.
 - PROVIDE A.D.A. COMPLIANT SIDEWALK RAMP (PERPENDICULAR) PER DETAIL ON SHEET C-5.01. PROVIDE DETECTABLE WARNING SURFACE PER DETAIL (MD-655.40) ON SHEET C-5.01.
 - PROVIDE A.D.A. COMPLIANT SIDEWALK RAMP (PARALLEL) PER DETAIL (MD-655-12) ON SHEET C-5.01. PROVIDE DETECTABLE WARNING SURFACE PER DETAIL (MD-655.40) ON SHEET C-5.01.
 - PROVIDE A.D.A. PARKING SIGNAGE PER DETAIL ON SHEET C-5.01.
 - PROVIDE A "STOP" SIGN AND BAR PER M.S.H.A AND M.U.T.C.D. STANDARDS AND SPECIFICATIONS.
 - PROVIDE PAVEMENT MARKINGS (CROSSWALKS, PARKING SPACE STRIPING).
 - PROVIDE ELECTRIC TRANSFORMER WITH CONCRETE BOLLARDS. CONTRACTOR SHALL CONTACT UTILITY OWNER OF SPECIFICATIONS.
 - PROVIDE BIORETENTION AREA. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00.
 - PROVIDE STORMDRAIN PIPING.
 - PROVIDE A SINGLE "WR" INLET PER DETAIL (MD-374.06) ON SHEET C-5.02.
 - PROVIDE A COG/COS OPENING PER DETAIL (MD-374.68) ON SHEET C-5.02.
 - PROVIDE A 2' WIDE TRAPEZOIDAL DITCH WITH 3:1 SIDE SLOPES @ 1.25%.
 - PROVIDE A "V-DITCH" WITH 3:1 SIDE SLOPES.

- PAVEMENT SHOWN [Hatched Pattern] SHALL BE HEAVY DUTY 7" BITUMINOUS CONCRETE (2" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE, PG 64S-22 ON 12" OF CR-6 SUB-COMPACTED IN 2, 6" LIFTS. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- PAVEMENT SHOWN [Dotted Pattern] SHALL BE MEDIUM DUTY 4" BITUMINOUS CONCRETE (1.5" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 2.5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE) ON 6" OF CR-6 ON COMPACTED SUBGRADE. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- PROPOSED CONCRETE SIDEWALK AND PAD. PER DETAIL ON SHEET C-5.01.
- TYPICAL WHERE SHOWN [Hatched Pattern]



CONCRETE MONUMENT COORDINATE TABLE

No.	DESCRIPTION	NORTHING	EASTING	ELEVATION
4	CONC. MONUMENT SET	586117.8198	1633906.9826	---
5	CONC. MONUMENT SET	585915.5964	1633909.5034	---

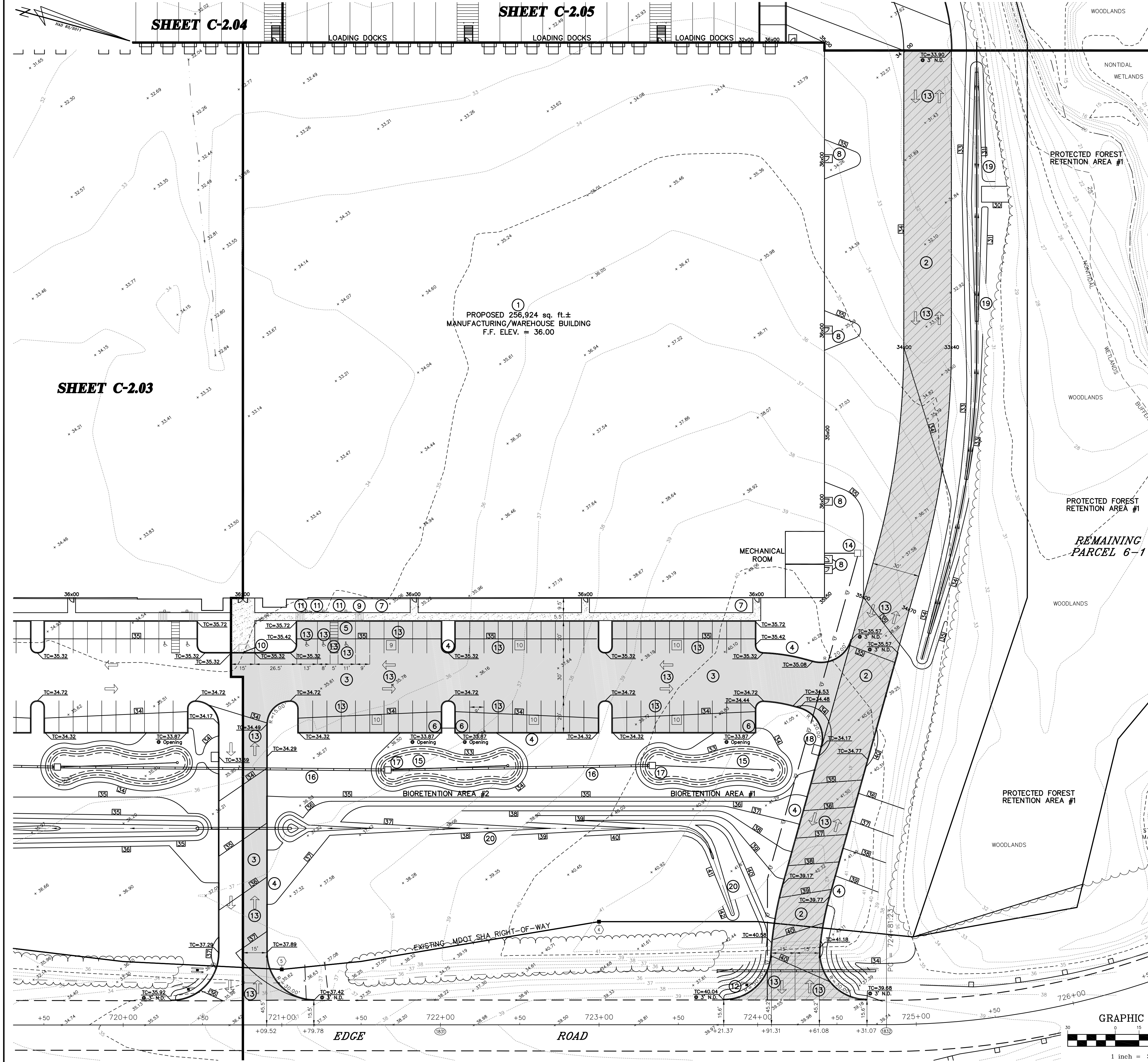
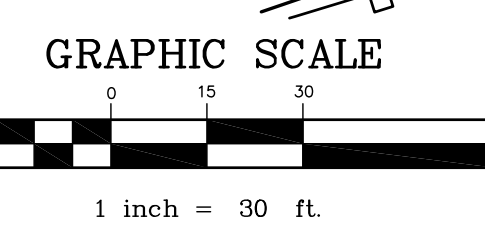
CONSTRUCTION STAKEOUT COORDINATE TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
(183)	Sta. 722+00.00	586009.9169	1633957.7808
(182)	PC = Sta. 724+81.23	586288.5363	1633996.0283

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT DATE

RENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.



REVISION

DATE	PER TAC COMMENTS	PER TAC COMMENTS
10-19-23		
5-24-24		

SITE AND GRADING PLAN

FOR A

MANUFACTURING/WAREHOUSE BUILDING

ON LOT 2, THE LANDS OF

MILLINGTON CROSSING ASSOCIATES ONE, LLC

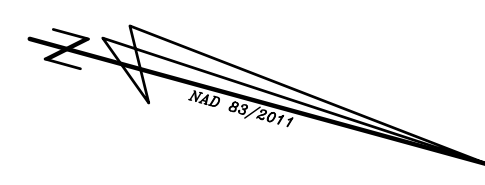
FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON

TAX MAP - 31, GRID - 1E, PARCEL - 6-1

DATE: MARCH '23
JOB No.: 2021165
DRAWN BY: WJM
FOLDER REF: 31-2021165
DESIGNED BY: KJS
SHEET No.: C-2.02
CADD FILE - 21165C2202


DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 410-291-1100
FAX: 1-443-262-9148


KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY HEALTH DEPARTMENT
KENT COUNTY SOIL AND WATER CONSERVATION DISTRICT

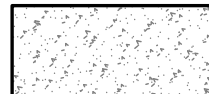


DRAWING NOTES
(APPLY TO THIS DRAWING ONLY)

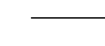






- ① - PROPOSED WAREHOUSE/MANUFACTURING BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.
- ② - PROVIDE HEAVY DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
- ③ - PROVIDE 6" CONCRETE CURB AND GUTTER PER DETAIL (RD-103.02) ON SHEET C-5.01.
- ④ - PROVIDE 5'x5' CONCRETE PAD.
- ⑤ - PROVIDE RETAINING WALL. SEE STRUCTURAL PLANS FOR DETAIL.
- ⑥ - PROVIDE CONCRETE BOLLARDS. SEE ARCHITECTURAL PLANS FOR DETAIL.
- ⑦ - PROVIDE PAVEMENT MARKINGS (CROSSWALKS, PARKING SPACE STRIPING).
- ⑧ - PROVIDE SUBMERGED GRAVEL WETLANDS. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00.
- ⑨ - PROVIDE STORMDRAIN PIPING.
- ⑩ - PROVIDE A CURB INLET PER DETAIL (RD-106.01) ON SHEET C-5.01.

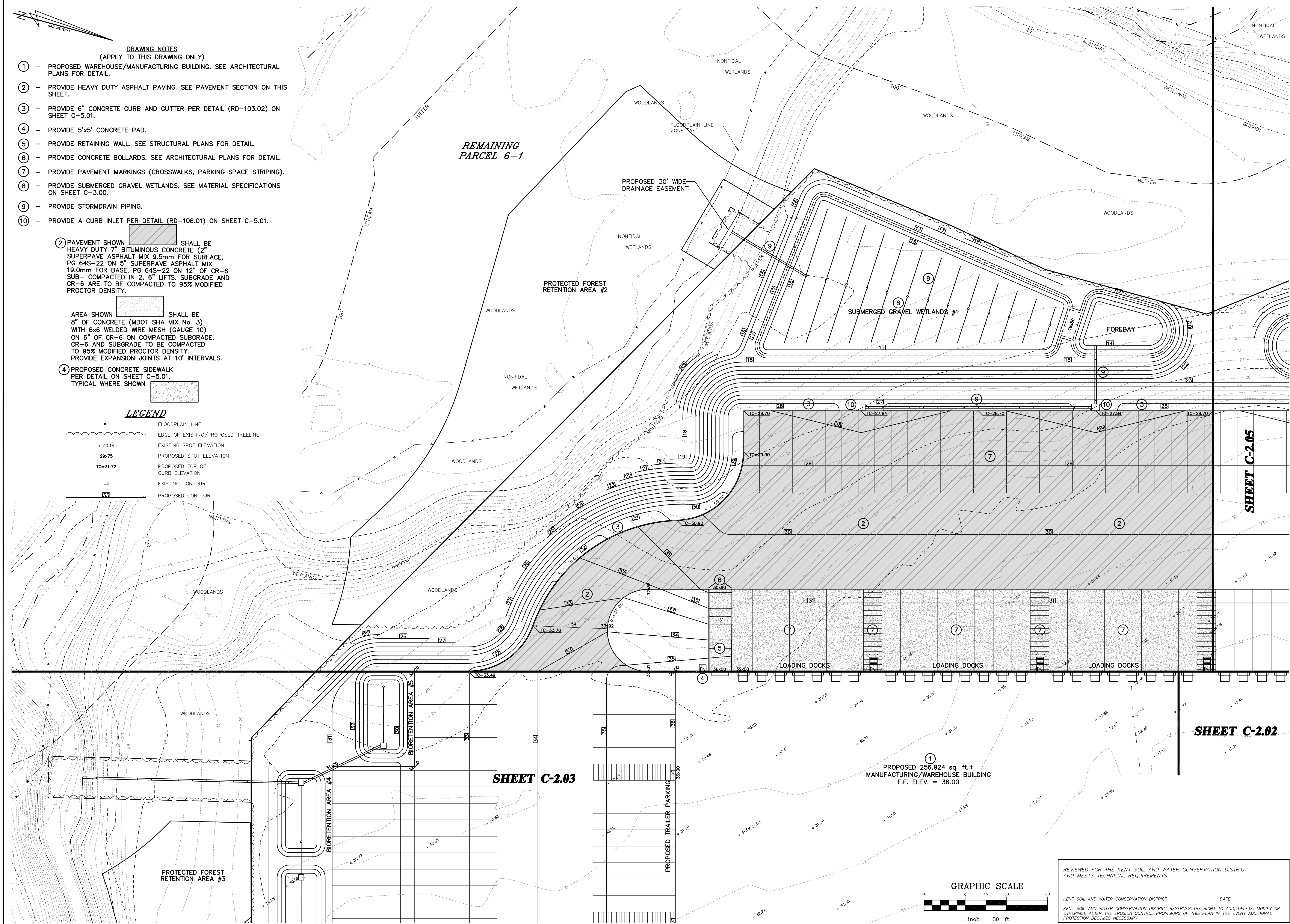
② PAVEMENT SHOWN  SHALL BE HEAVY DUTY 7" BITUMINOUS CONCRETE (2" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 6" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE, PG 64S-22 ON 12" OF CR-6 SUB-COMPACTED IN 2, 6" LIFTS. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

AREA SHOWN  SHALL BE 8" OF CONCRETE (MDOT SHA MIX No. 3) WITH 6x6 WELDED WIRE MESH (GAUGE 10) ON 6" OF CR-6 ON COMPACTED SUBGRADE. CR-6 AND SUBGRADE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. PROVIDE EXPANSION JOINTS AT 10' INTERVALS.

④ PROPOSED CONCRETE SIDEWALK PER DETAIL ON SHEET C-5.01. TYPICAL WHERE SHOWN 

LEGEND

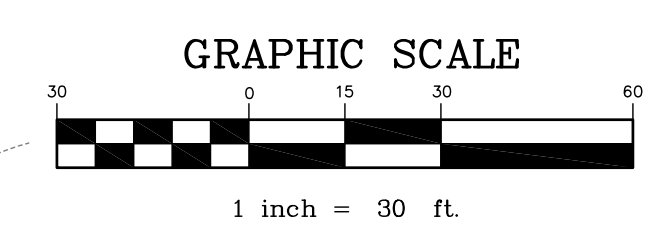
	FLOODPLAIN LINE
	EDGE OF EXISTING/PROPOSED TREELINE
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	PROPOSED TOP OF CURB ELEVATION
	EXISTING CONTOUR
	PROPOSED CONTOUR



SHEET C-2.02

SHEET C-2.03

SHEET C-2.05

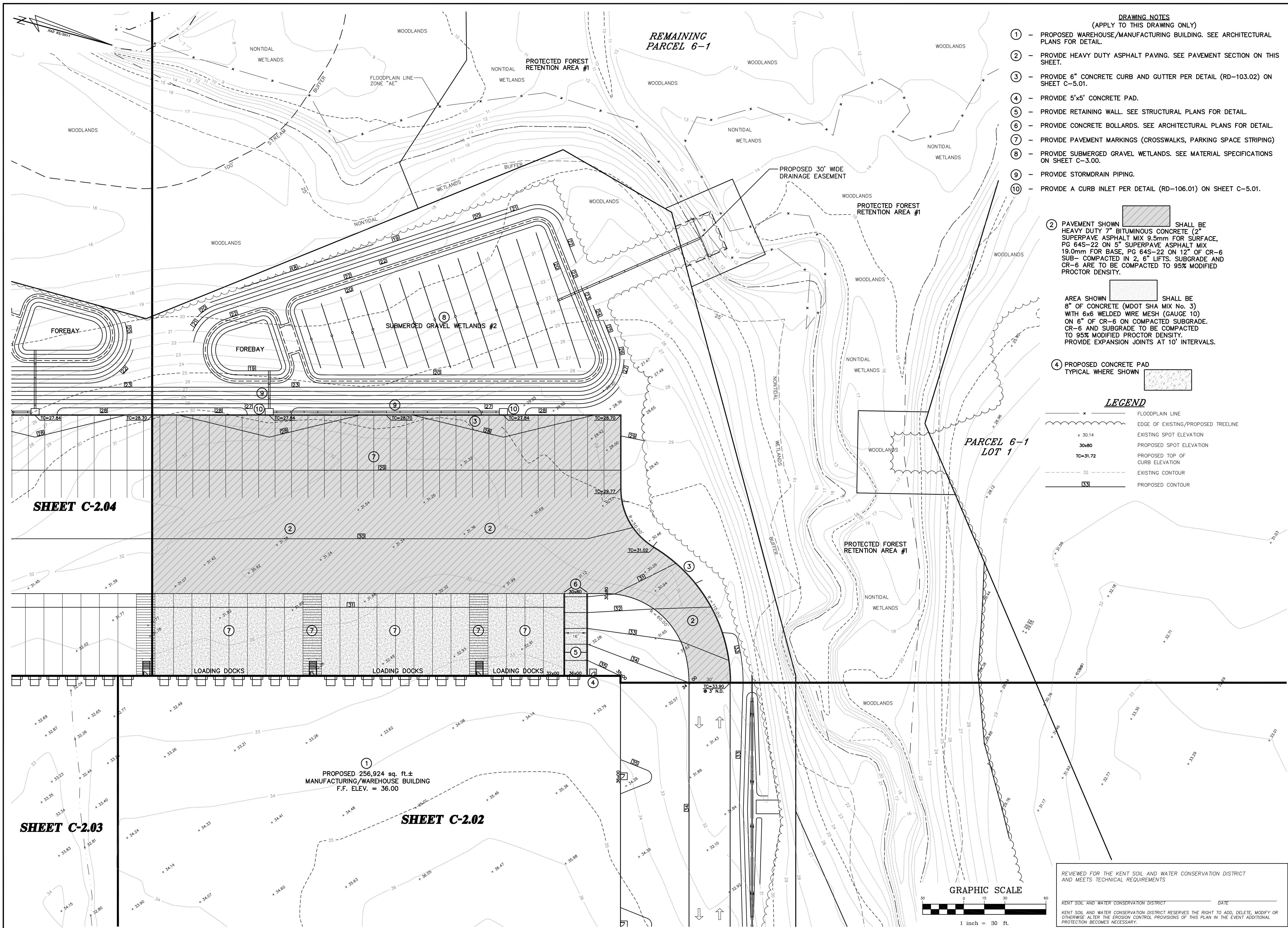


REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

DATE: _____ SCALE: 1" = 30'
 DRAWN BY: WJM
 DESIGNED BY: KJS
 SHEET No. - C-2.04
 CADD FILE - 21165C2204

<p>DATE: MARCH '23</p> <p>JOB No.: 2021165</p> <p>FOLDER #4: 31-2021165</p>	<p>REVISION PER TAC COMMENTS</p> <p>DATE</p>	<p>SITE AND GRADING PLAN FOR A</p> <p>MANUFACTURING/WAREHOUSE BUILDING ON LOT 2, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC</p> <p>FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON</p> <p>TAX MAP - 31, GRID - 1E, PARCEL - 6-1</p>	<p>DESIGNED BY: KJS</p> <p>CHECKED BY: KJS</p> <p>DATE: OCTOBER 9, 2023</p>	<p>PROFESSIONAL SEAL</p> <p>DAVID S. MOORE, SHEARON & ASSOCIATES, LLC</p> <p>ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING</p> <p>P.O. BOX 80 CENTREVILLE, MARYLAND 21617 PHONE: 1-443-262-9148 FAX: 1-443-262-9148</p>	<p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>KENT COUNTY DEPARTMENT OF PLANNING AND ZONING</p> <p>KENT COUNTY HEALTH DEPARTMENT</p> <p>KENT COUNTY SOIL AND WATER CONSERVATION DISTRICT</p>
---	--	--	---	---	--



- DRAWING NOTES**
(APPLY TO THIS DRAWING ONLY)
- ① - PROPOSED WAREHOUSE/MANUFACTURING BUILDING. SEE ARCHITECTURAL PLANS FOR DETAIL.
 - ② - PROVIDE HEAVY DUTY ASPHALT PAVING. SEE PAVEMENT SECTION ON THIS SHEET.
 - ③ - PROVIDE 6" CONCRETE CURB AND GUTTER PER DETAIL (RD-103.02) ON SHEET C-5.01.
 - ④ - PROVIDE 5'x5' CONCRETE PAD.
 - ⑤ - PROVIDE RETAINING WALL. SEE STRUCTURAL PLANS FOR DETAIL.
 - ⑥ - PROVIDE CONCRETE BOLLARDS. SEE ARCHITECTURAL PLANS FOR DETAIL.
 - ⑦ - PROVIDE PAVEMENT MARKINGS (CROSSWALKS, PARKING SPACE STRIPING)
 - ⑧ - PROVIDE SUBMERGED GRAVEL WETLANDS. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00.
 - ⑨ - PROVIDE STORMDRAIN PIPING.
 - ⑩ - PROVIDE A CURB INLET PER DETAIL (RD-106.01) ON SHEET C-5.01.

② PAVEMENT SHOWN SHALL BE HEAVY DUTY 7" BITUMINOUS CONCRETE (2" SUPERPAVE ASPHALT MIX 9.5mm FOR SURFACE, PG 64S-22 ON 5" SUPERPAVE ASPHALT MIX 19.0mm FOR BASE, PG 64S-22 ON 12" OF CR-6 SUB-COMPACTED IN 2, 6" LIFTS. SUBGRADE AND CR-6 ARE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

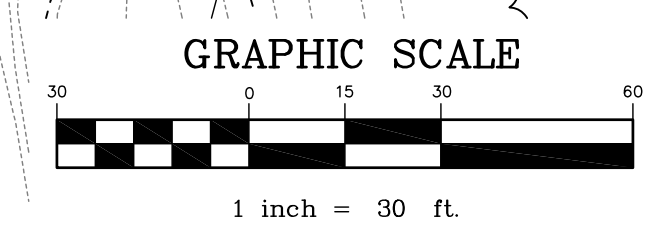
AREA SHOWN SHALL BE 8" OF CONCRETE (MDOT SHA MIX No. 3) WITH 6x6 WELDED WIRE MESH (GAUGE 10) ON 6" OF CR-6 ON COMPACTED SUBGRADE. CR-6 AND SUBGRADE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. PROVIDE EXPANSION JOINTS AT 10' INTERVALS.

④ PROPOSED CONCRETE PAD TYPICAL WHERE SHOWN

LEGEND

- FLOODPLAIN LINE
- - - EDGE OF EXISTING/PROPOSED TREELINE
- + 30.14 EXISTING SPOT ELEVATION
- 30x80 PROPOSED SPOT ELEVATION
- TC=31.72 PROPOSED TOP OF CURB ELEVATION
- - - 32 EXISTING CONTOUR
- ⑤ PROPOSED CONTOUR

PARCEL 6-1
LOT 1

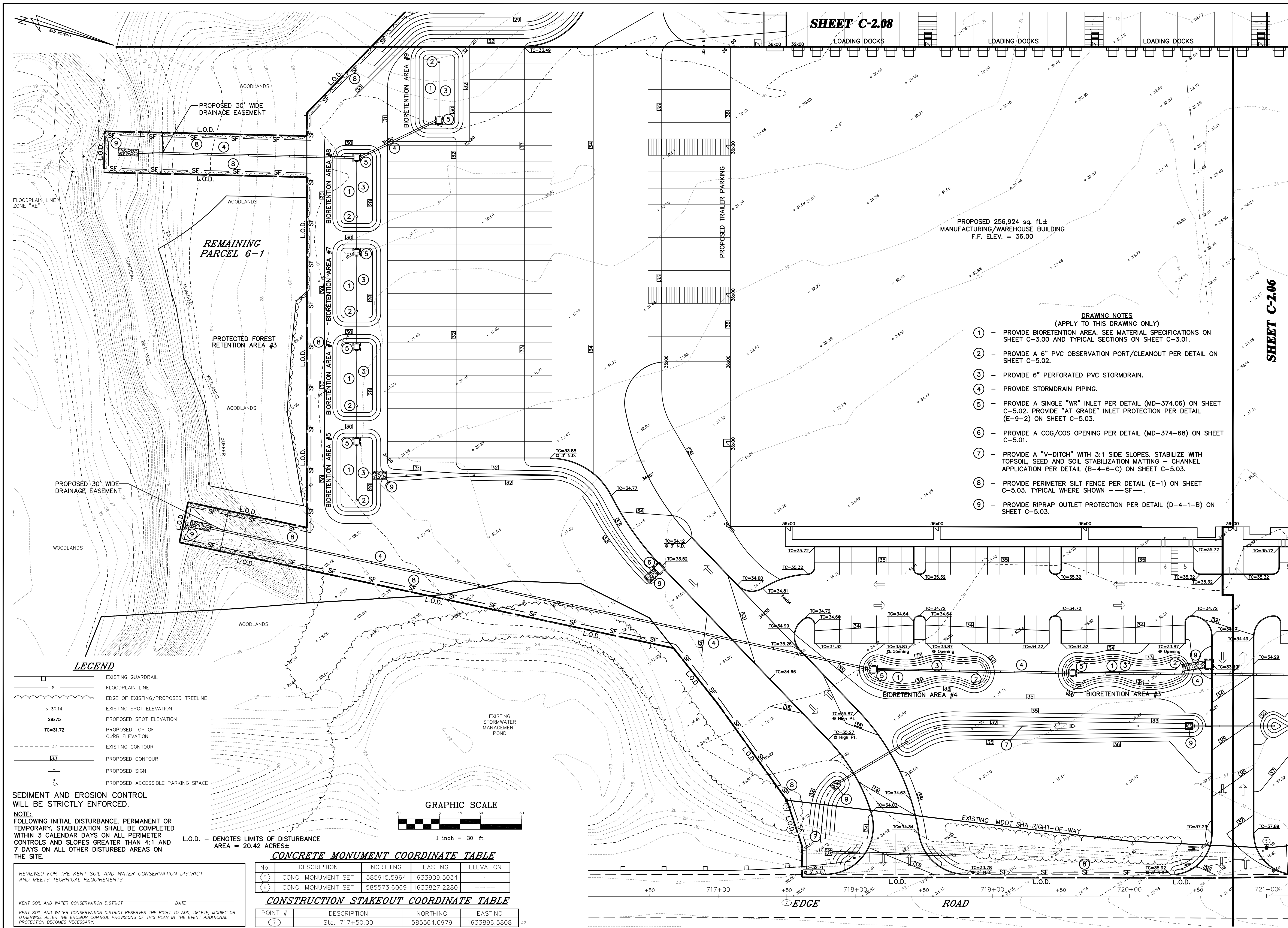


REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT DATE

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

<p>DAVIS, MOORE, SHEARON & ASSOCIATES, LLC ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING P.O. BOX 80 CENTREVILLE, MARYLAND 21617 PHONE: 1-443-262-9148 FAX: 1-443-262-9148</p>							
<p>MILLINGTON CROSSING ASSOCIATES ONE, LLC ON LOT 2, THE LANDS OF FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1</p>							
<p>MANUFACTURING/WAREHOUSE BUILDING</p>							
<p>SITE AND GRADING PLAN</p>							
<p>FOR A</p>							
<p>ON LOT 2, THE LANDS OF</p>							
<p>DATE: MARCH '23</p>							
<p>SCALE: 1" = 30'</p>							
<p>JOB NO.: 202165</p>							
<p>DRAWN BY: WJM</p>							
<p>DESIGNED BY: KJS</p>							
<p>FOLDER #4: 31-202165</p>							
<p>SHEET No. - C-2.05</p>							
<p>CADD FILE - 21165C2205</p>							



PROPOSED 256,924 sq. ft.±
MANUFACTURING/WAREHOUSE BUILDING
F.F. ELEV. = 36.00

DRAWING NOTES
(APPLY TO THIS DRAWING ONLY)

- ① - PROVIDE BIORETENTION AREA. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00 AND TYPICAL SECTIONS ON SHEET C-3.01.
- ② - PROVIDE A 6" PVC OBSERVATION PORT/CLEANOUT PER DETAIL ON SHEET C-5.02.
- ③ - PROVIDE 6" PERFORATED PVC STORMDRAIN.
- ④ - PROVIDE STORMDRAIN PIPING.
- ⑤ - PROVIDE A SINGLE "WR" INLET PER DETAIL (MD-374.06) ON SHEET C-5.02. PROVIDE "AT GRADE" INLET PROTECTION PER DETAIL (E-9-2) ON SHEET C-5.03.
- ⑥ - PROVIDE A COG/COS OPENING PER DETAIL (MD-374-68) ON SHEET C-5.01.
- ⑦ - PROVIDE A "V-DITCH" WITH 3:1 SIDE SLOPES. STABILIZE WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - CHANNEL APPLICATION PER DETAIL (B-4-6-C) ON SHEET C-5.03.
- ⑧ - PROVIDE PERIMETER SILT FENCE PER DETAIL (E-1) ON SHEET C-5.03. TYPICAL WHERE SHOWN - SF.
- ⑨ - PROVIDE RIPRAP OUTLET PROTECTION PER DETAIL (D-4-1-B) ON SHEET C-5.03.

LEGEND

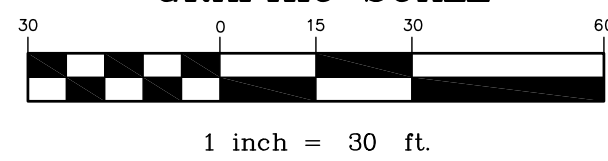
- EXISTING GUARDRAIL
- FLOODPLAIN LINE
- EDGE OF EXISTING/PROPOSED TREELINE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SIGN
- PROPOSED ACCESSIBLE PARKING SPACE

SEDIMENT AND EROSION CONTROL
WILL BE STRICTLY ENFORCED.

NOTE:
FOLLOWING INITIAL DISTURBANCE, PERMANENT OR TEMPORARY, STABILIZATION SHALL BE COMPLETED WITHIN 3 CALENDAR DAYS ON ALL PERIMETER CONTROLS AND SLOPES GREATER THAN 4:1 AND 7 DAYS ON ALL OTHER DISTURBED AREAS ON THE SITE.

L.O.D. - DENOTES LIMITS OF DISTURBANCE
AREA = 20.42 ACRES±

GRAPHIC SCALE



CONCRETE MONUMENT COORDINATE TABLE

No.	DESCRIPTION	NORTHING	EASTING	ELEVATION
5	CONC. MONUMENT SET	585915.5964	1633909.5034	---
6	CONC. MONUMENT SET	585573.6069	1633827.2280	---

CONSTRUCTION STAKEOUT COORDINATE TABLE

POINT #	DESCRIPTION	NORTHING	EASTING
7	Sta. 717+50.00	585564.0979	1633896.5808

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

KENT COUNTY HEALTH DEPARTMENT

KENT COUNTY SOIL AND WATER CONSERVATION DISTRICT

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC

ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING

P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 410-291-1100
FAX: 1-443-262-9148

REVISION	DATE	PER TAC COMMENTS	PER MDT COMMENTS
	10-19-23		
	11-15-23		

STORMWATER MANAGEMENT AND SEDIMENT & EROSION CONTROL PLAN

FOR A

MANUFACTURING/WAREHOUSE BUILDING

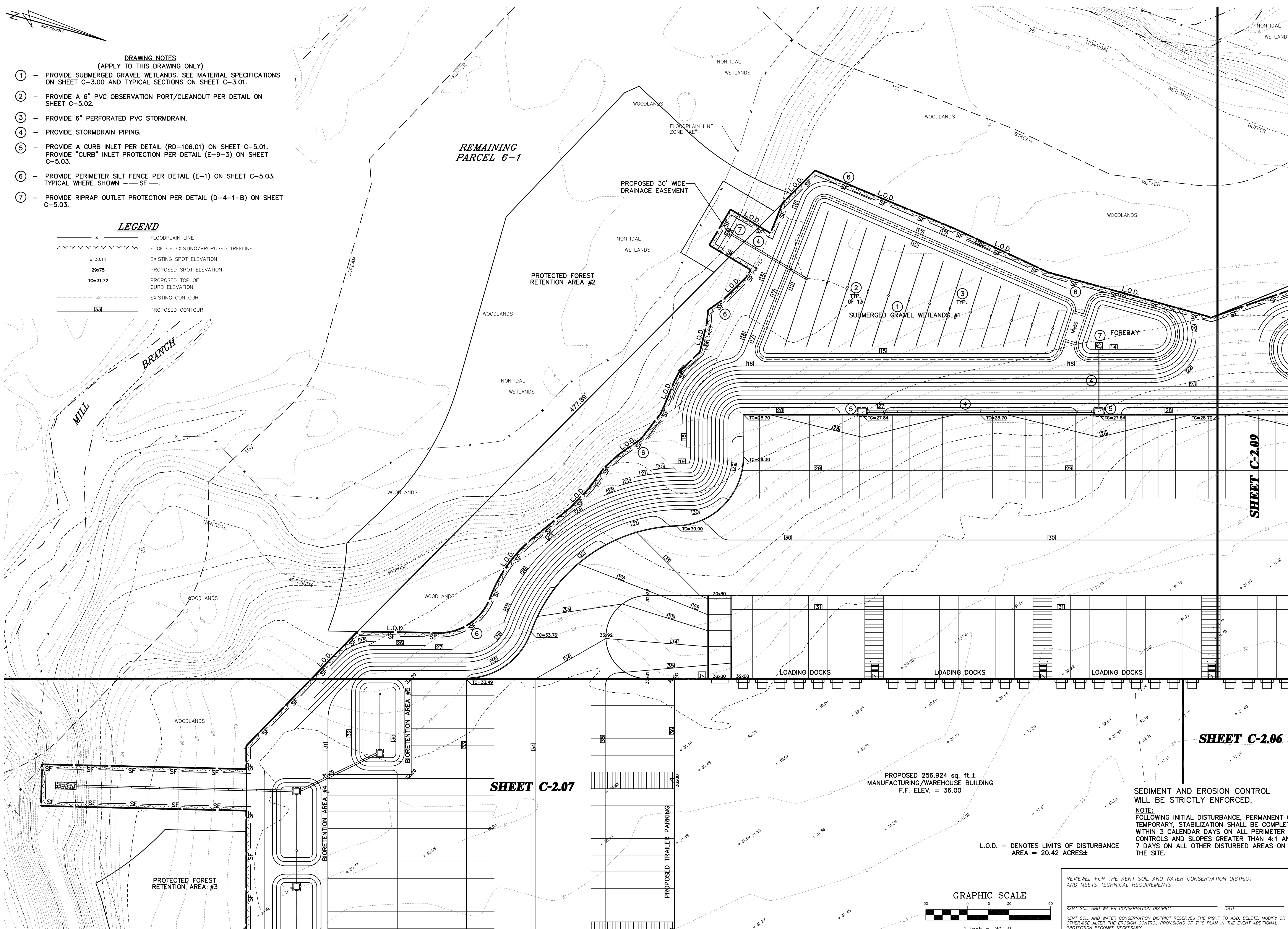
ON LOT 2, THE LANDS OF

MILLINGTON CROSSING ASSOCIATES ONE, LLC

FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON

TAX MAP - 31, GRID - 1E, PARCEL - 6-1

DATE	SCALE	1" = 30'
MARCH '23	DRAWN BY	WJM
JOB NO.	DESIGNED BY	KJS
2021165	CHECKED BY	
FOLDER #64	DATE	
31-202165		
SHEET No. - C-2.07		
CADD FILE - 21165C2207		



- DRAWING NOTES**
(APPLY TO THIS DRAWING ONLY)
- ① - PROVIDE SUBMERGED GRAVEL WETLANDS. SEE MATERIAL SPECIFICATIONS ON SHEET C-3.00 AND TYPICAL SECTIONS ON SHEET C-3.01.
 - ② - PROVIDE A 6" PVC OBSERVATION PORT/CLEANOUT PER DETAIL ON SHEET C-5.02.
 - ③ - PROVIDE 6" PERFORATED PVC STORMDRAIN.
 - ④ - PROVIDE STORMDRAIN PIPING.
 - ⑤ - PROVIDE A CURB INLET PER DETAIL (RD-106.01) ON SHEET C-5.01. PROVIDE "CURB" INLET PROTECTION PER DETAIL (E-9-3) ON SHEET C-5.03.
 - ⑥ - PROVIDE PERIMETER SILT FENCE PER DETAIL (E-1) ON SHEET C-5.03. TYPICAL WHERE SHOWN ---SF---
 - ⑦ - PROVIDE RIPRAP OUTLET PROTECTION PER DETAIL (D-4-1-B) ON SHEET C-5.03.

LEGEND

—x—	FLOODPLAIN LINE
~	EDGE OF EXISTING/PROPOSED TREELINE
x 30.14	EXISTING SPOT ELEVATION
28x75	PROPOSED SPOT ELEVATION
TC=31.72	PROPOSED TOP OF CURB ELEVATION
---	EXISTING CONTOUR
---	PROPOSED CONTOUR

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY HEALTH DEPARTMENT
KENT SOIL AND WATER CONSERVATION DISTRICT

APPROVED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

DATE: _____

DESIGNED BY: KJS

DRAWN BY: WJM

JOB NO.: 2021165

FOLDER #4: 31-2021165

SHEET NO.: C-2.08

CADD FILE: 21165C2208

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING

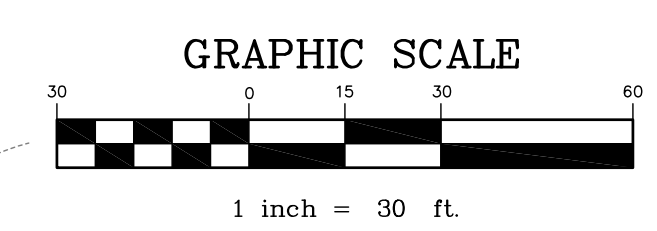
1000 WEST MAIN STREET, SUITE 200
CENTREVILLE, MARYLAND 21617
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 410-296-1144
FAX: 410-296-9148

OCTOBER 9, 2023

REVISION	DATE	PER	TAC COMMENTS
	10-19-23		

STORMWATER MANAGEMENT AND SEDIMENT & EROSION CONTROL PLAN FOR A **MANUFACTURING/WAREHOUSE BUILDING** ON LOT 2, THE LANDS OF **MILLINGTON CROSSING ASSOCIATES ONE, LLC** FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1

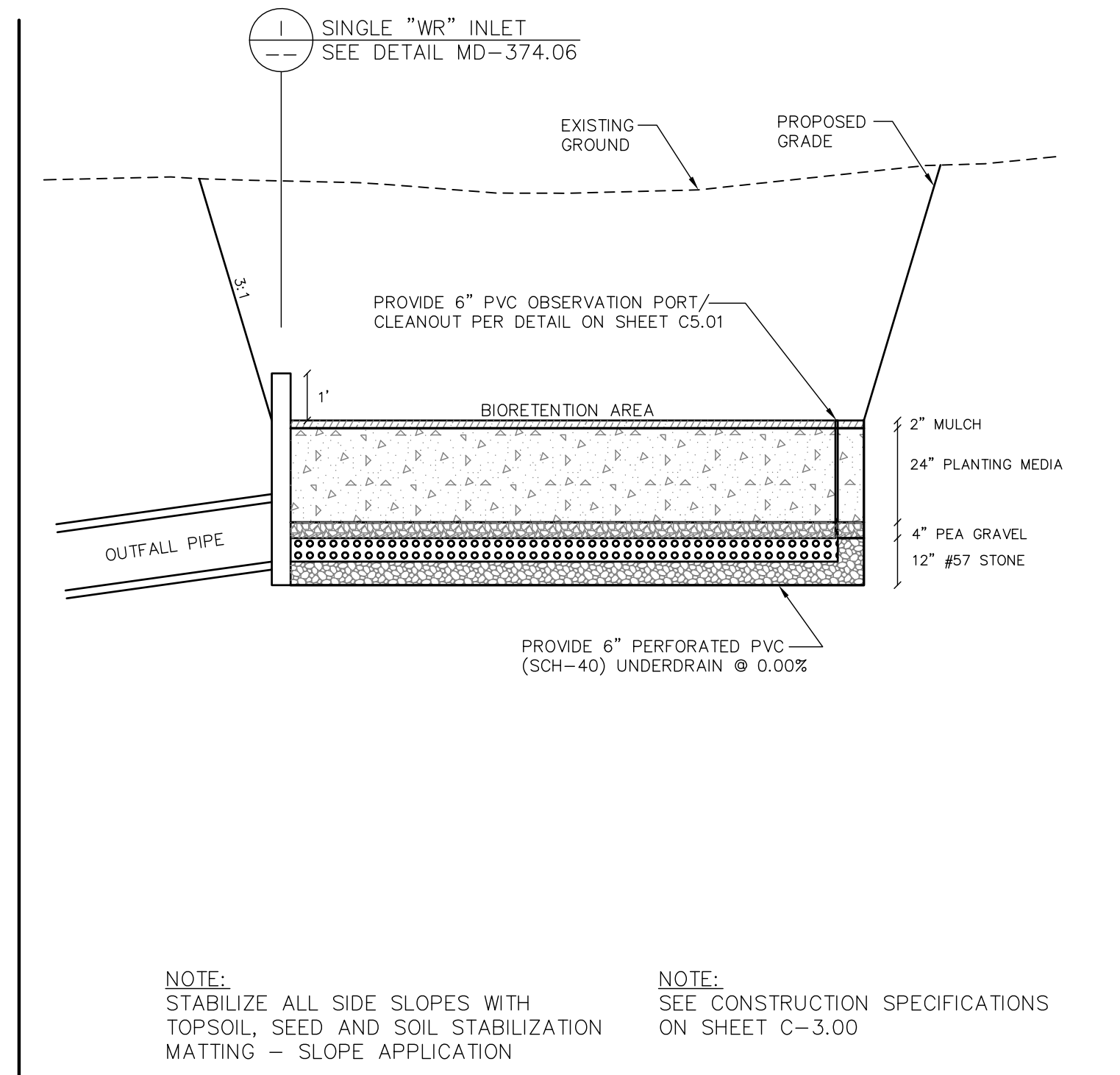
NOTE:
SEDIMENT AND EROSION CONTROL WILL BE STRICTLY ENFORCED.
NOTE: FOLLOWING INITIAL DISTURBANCE, PERMANENT OR TEMPORARY, STABILIZATION SHALL BE COMPLETED WITHIN 3 CALENDAR DAYS ON ALL PERIMETER CONTROLS AND SLOPES GREATER THAN 4:1 AND 7 DAYS ON ALL OTHER DISTURBED AREAS ON THE SITE.



REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT

DATE: _____

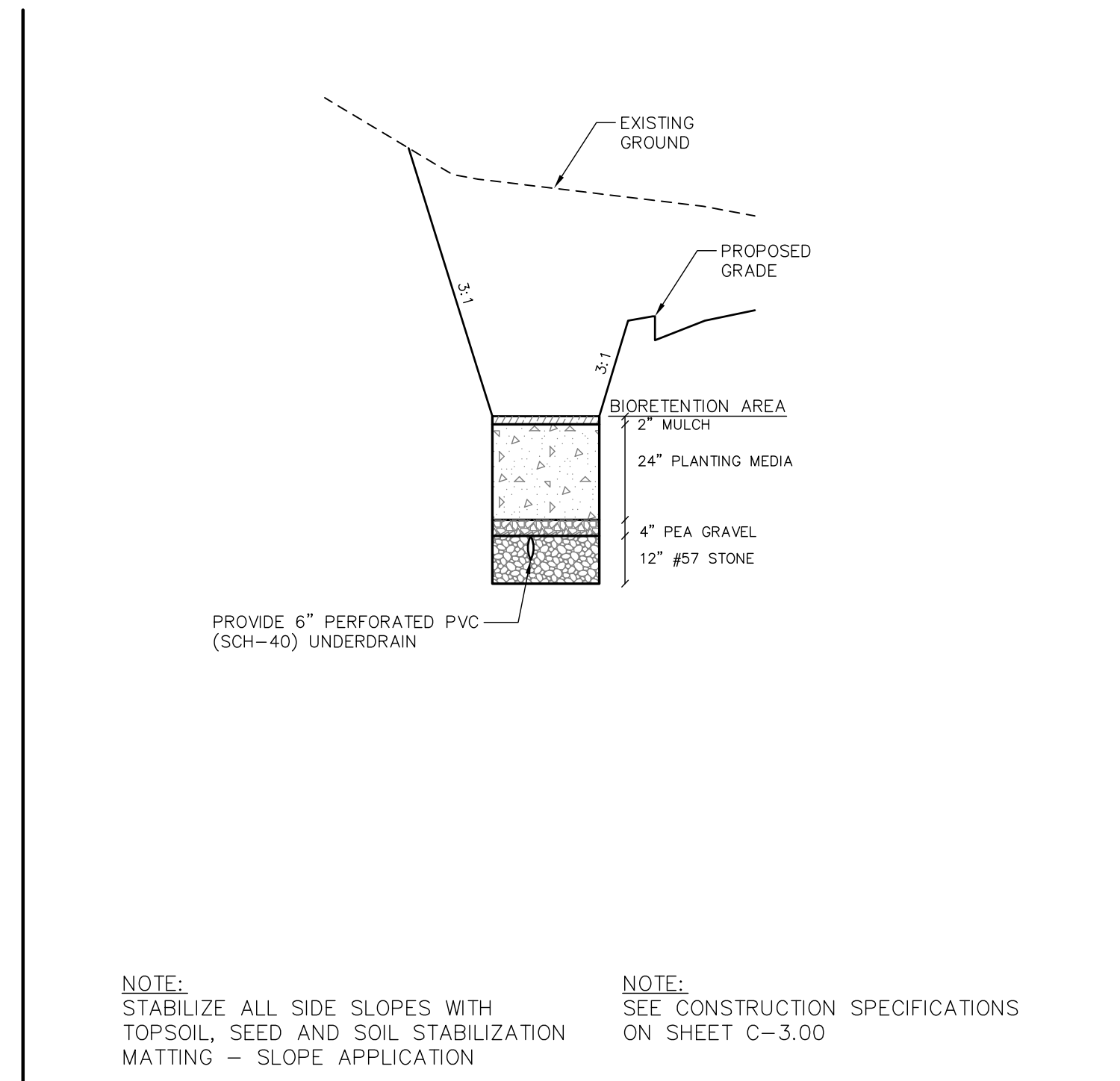


NOTE: STABILIZE ALL SIDE SLOPES WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION

NOTE: SEE CONSTRUCTION SPECIFICATIONS ON SHEET C-3.00

TYPICAL BIOTENTION SECTION

SCALE 1" = 30' HORIZONTAL
1" = 3' VERTICAL

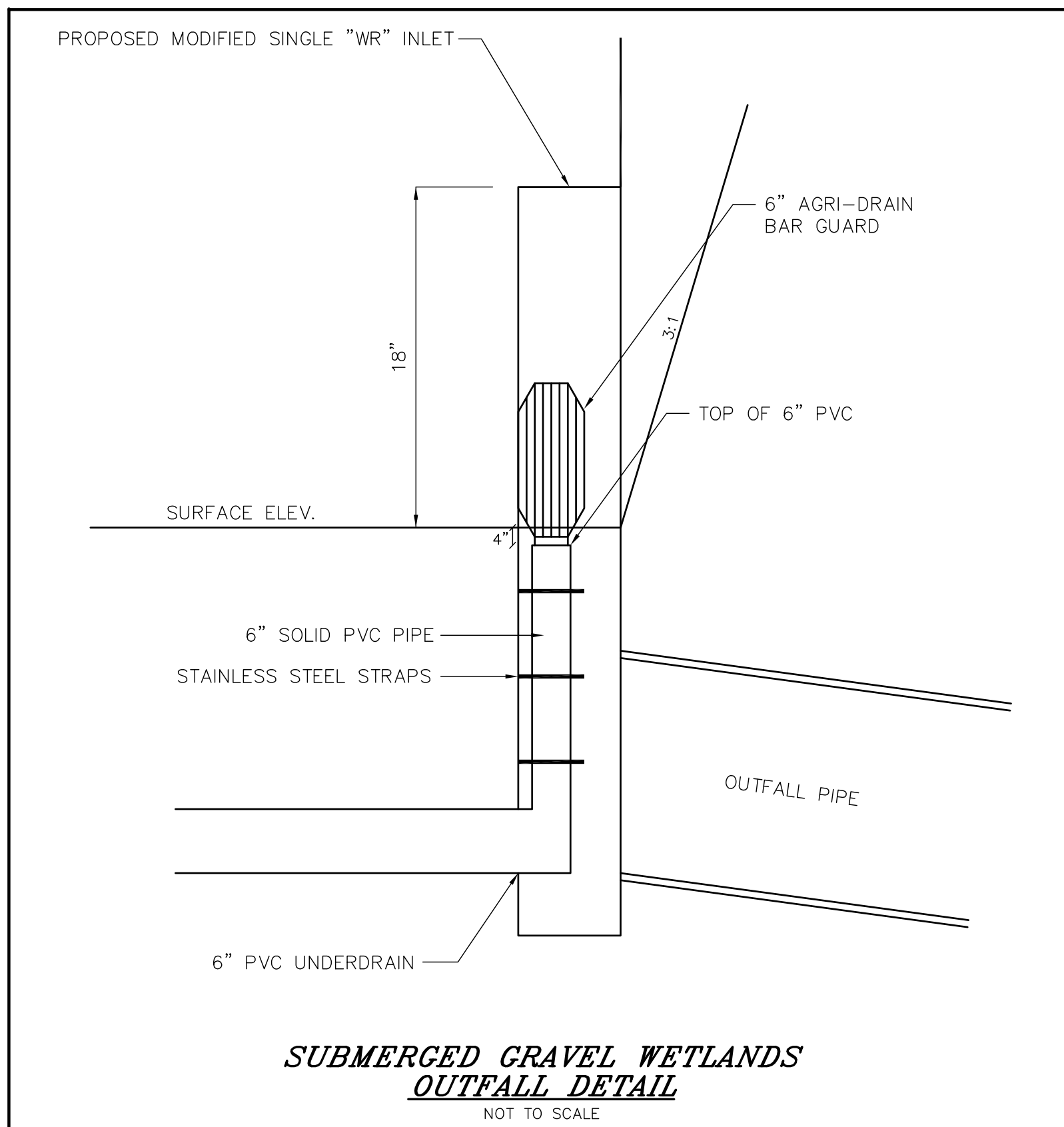


NOTE: STABILIZE ALL SIDE SLOPES WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION

NOTE: SEE CONSTRUCTION SPECIFICATIONS ON SHEET C-3.00

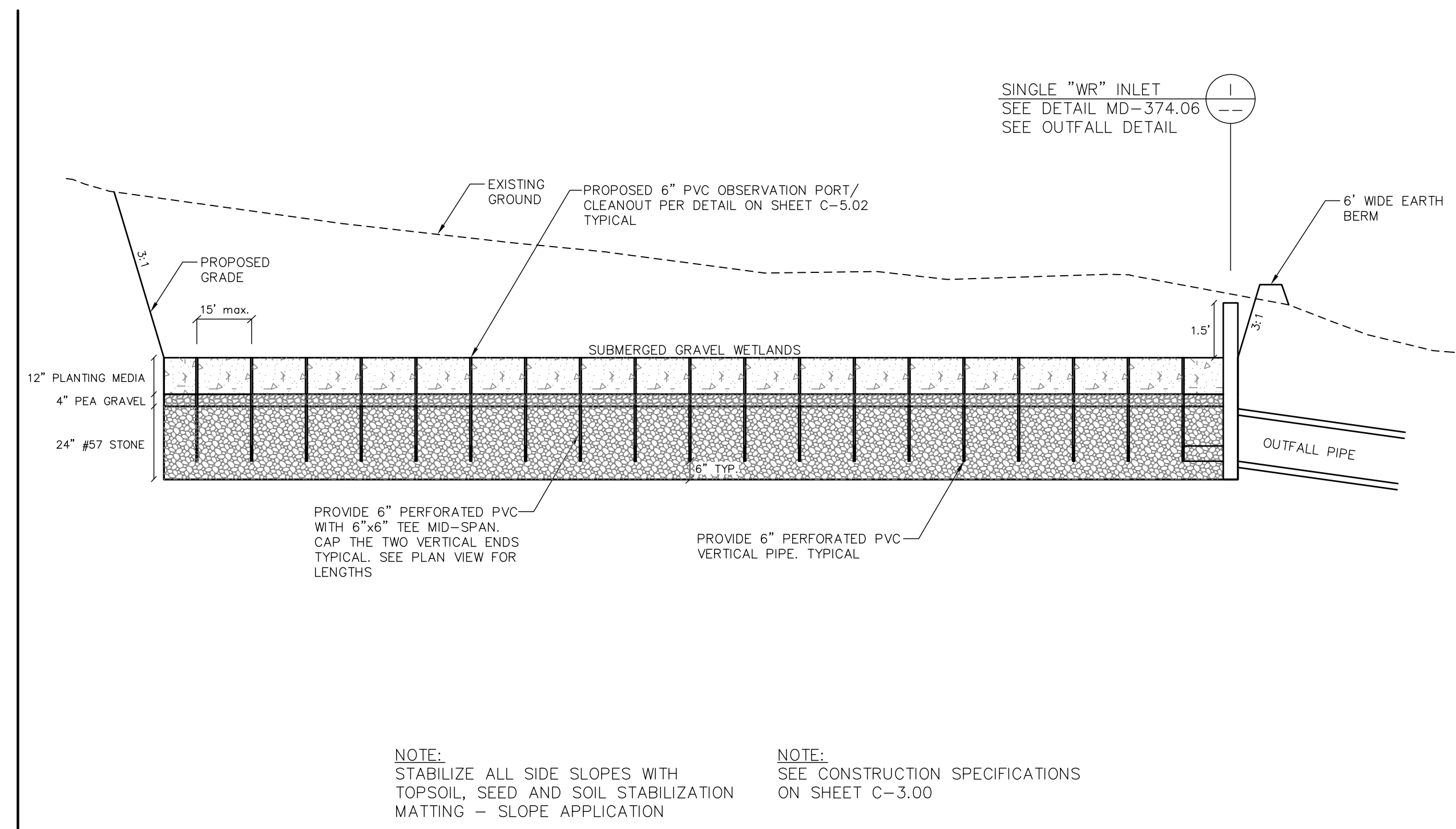
TYPICAL BIOTENTION SECTION

SCALE 1" = 30' HORIZONTAL
1" = 3' VERTICAL



SUBMERGED GRAVEL WETLANDS OUTFALL DETAIL

NOT TO SCALE

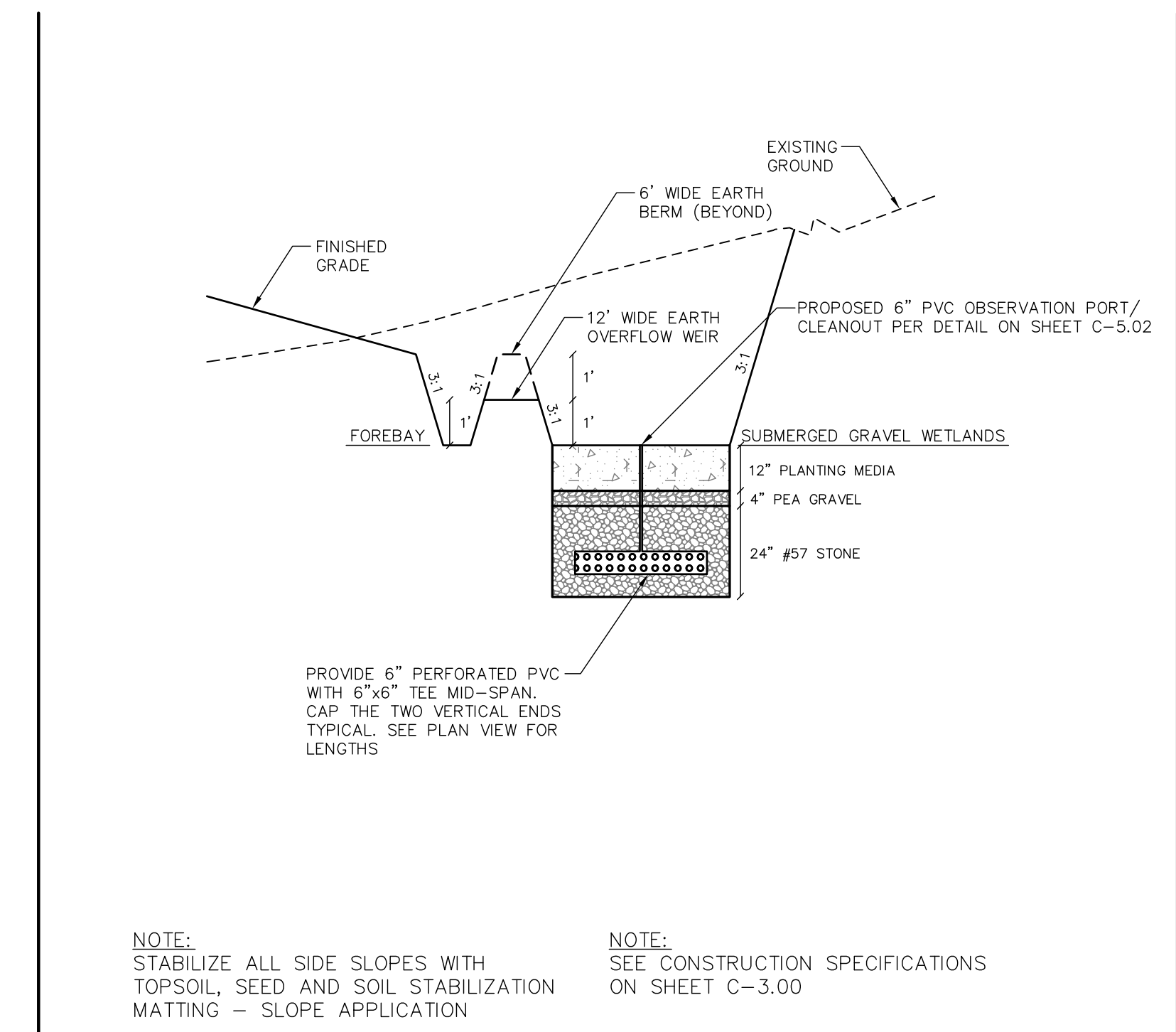


NOTE: STABILIZE ALL SIDE SLOPES WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION

NOTE: SEE CONSTRUCTION SPECIFICATIONS ON SHEET C-3.00

TYPICAL SUBMERGED GRAVEL WETLANDS SECTION

SCALE 1" = 30' HORIZONTAL
1" = 3' VERTICAL



NOTE: STABILIZE ALL SIDE SLOPES WITH TOPSOIL, SEED AND SOIL STABILIZATION MATTING - SLOPE APPLICATION

NOTE: SEE CONSTRUCTION SPECIFICATIONS ON SHEET C-3.00

TYPICAL SUBMERGED GRAVEL WETLANDS SECTION

SCALE 1" = 30' HORIZONTAL
1" = 3' VERTICAL

AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT DATE

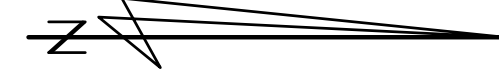
KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

DATE	MARCH '23	SCALE	AS SHOWN
JOB No.	2021165	DRAWN BY	WJM
FOLDER #4	31-2021165	DESIGNED BY	KJS
SHEET No.	C-3.01		
CADD FILE	21165C301		

TYPICAL STORMWATER MANAGEMENT SECTIONS FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 2, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1

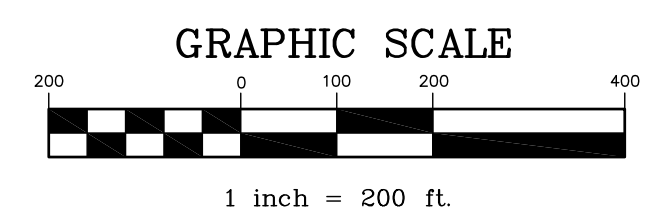
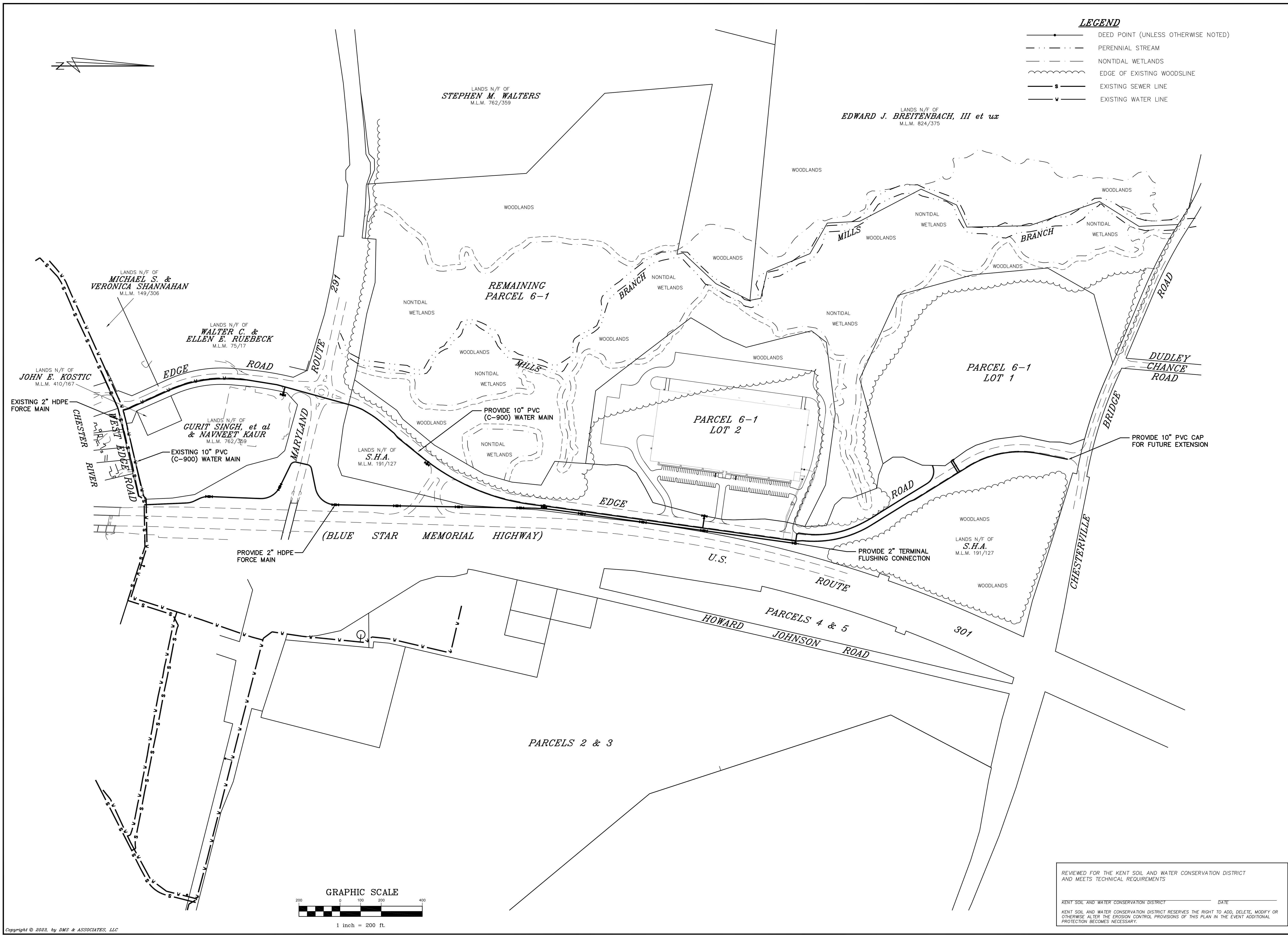
REVISION PER TAC COMMENTS DATE 10-9-23

PROFESSIONAL SEAL: DAVIS, MOORE, SHEARON & ASSOCIATES, LLC. ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING. P.O. BOX 80, CENTREVILLE, MARYLAND 21617. PHONE: 1-443-262-9148. FAX: 1-443-262-9148. OCTOBER 9, 2023. KENT COUNTY DEPARTMENT OF PLANNING AND ZONING. KENT COUNTY DEPARTMENT OF PUBLIC WORKS. KENT COUNTY HEALTH DEPARTMENT. KENT SOIL AND WATER CONSERVATION DISTRICT.



LEGEND

- DEED POINT (UNLESS OTHERWISE NOTED)
- — — PERENNIAL STREAM
- - - - NONTIDAL WETLANDS
- ~~~~~ EDGE OF EXISTING WOODSLINE
- S— EXISTING SEWER LINE
- V— EXISTING WATER LINE

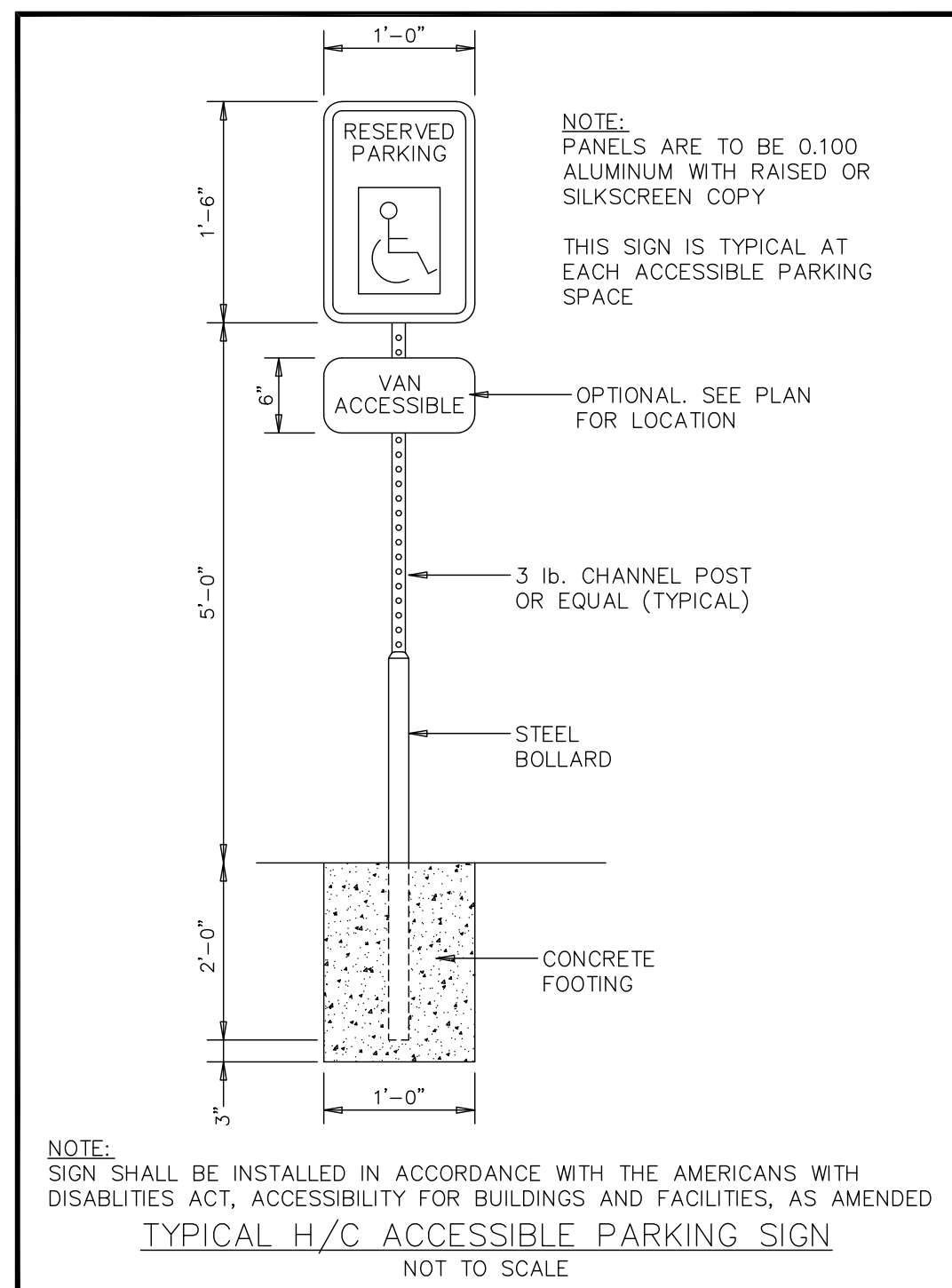
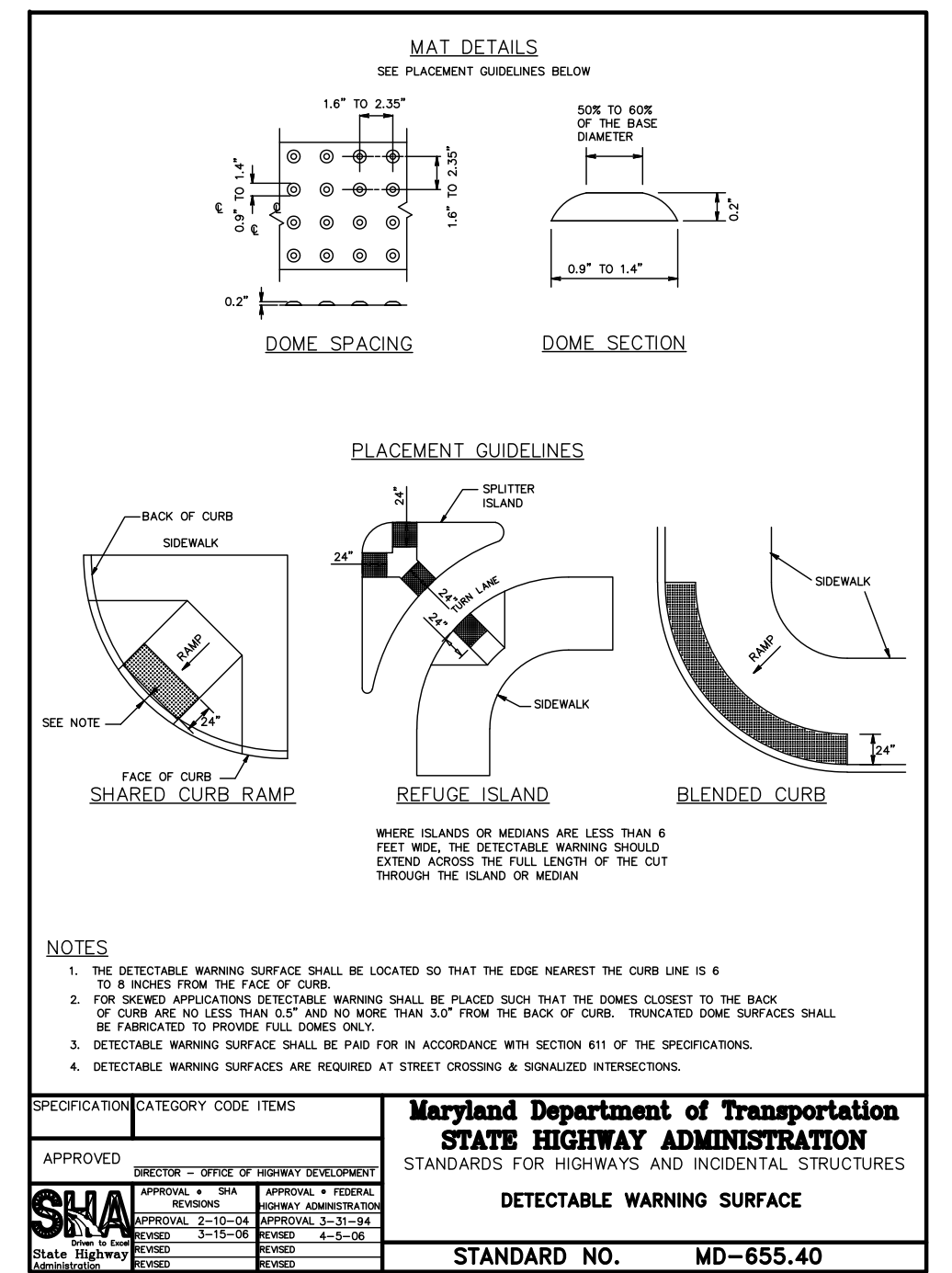
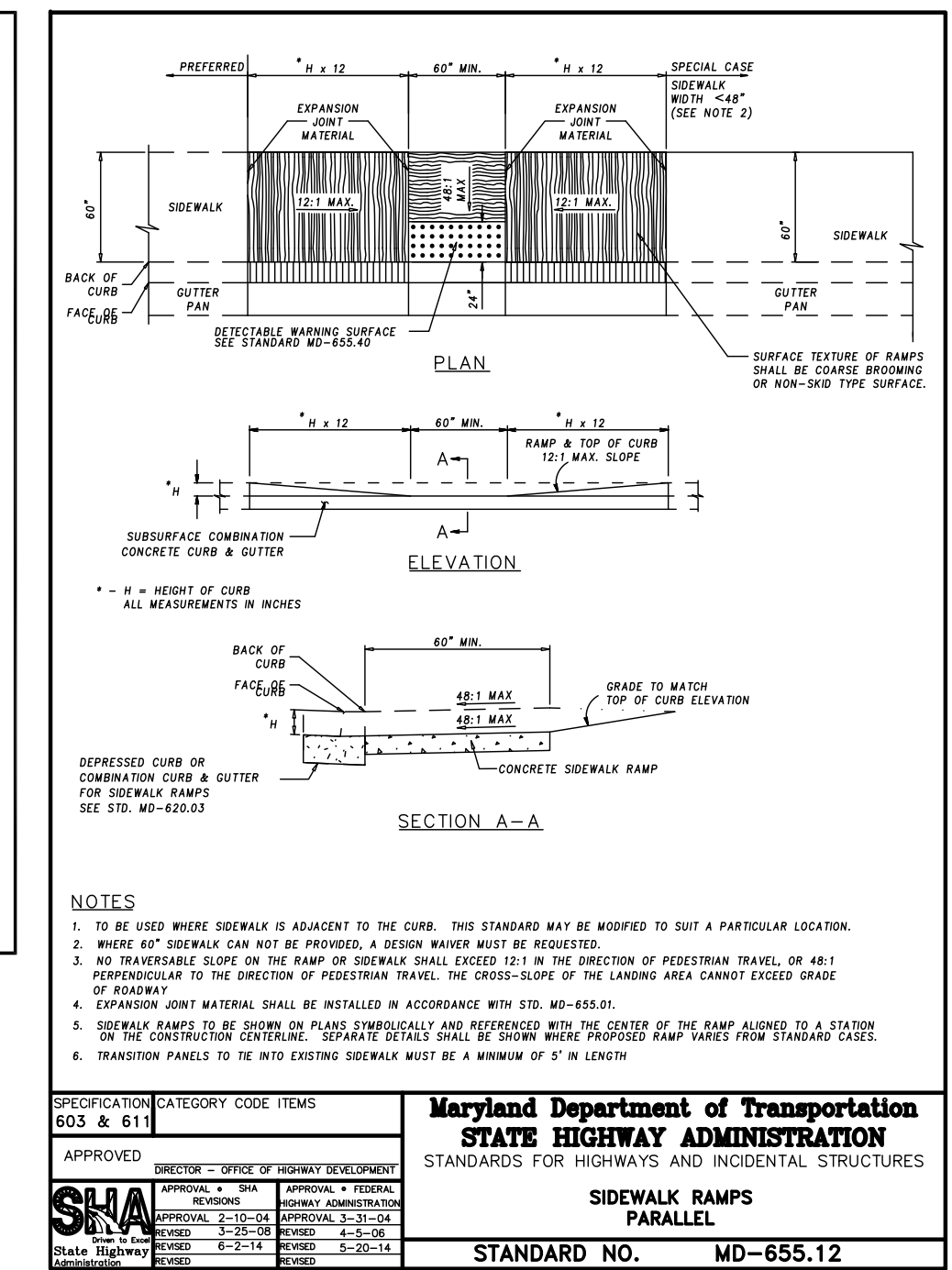
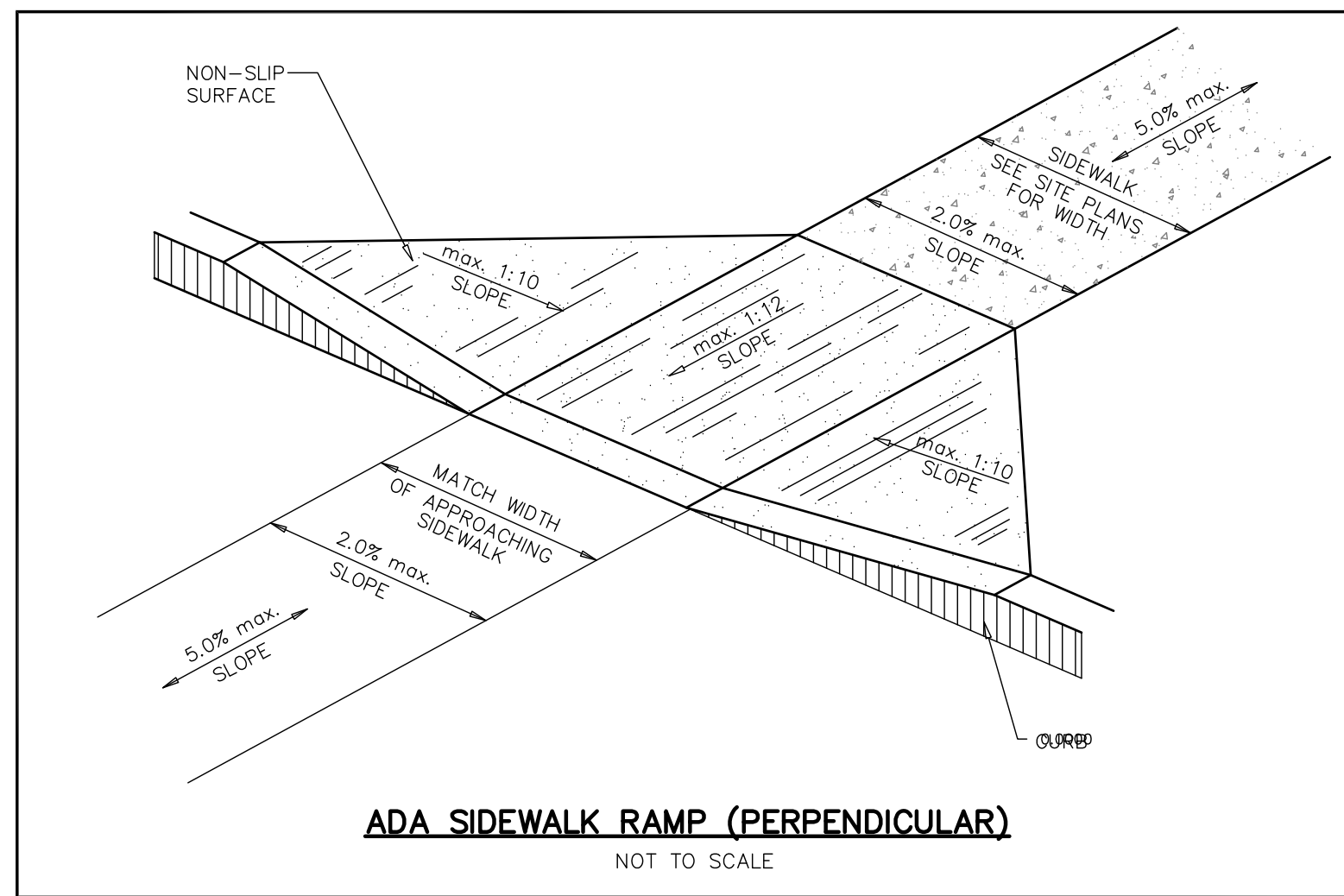
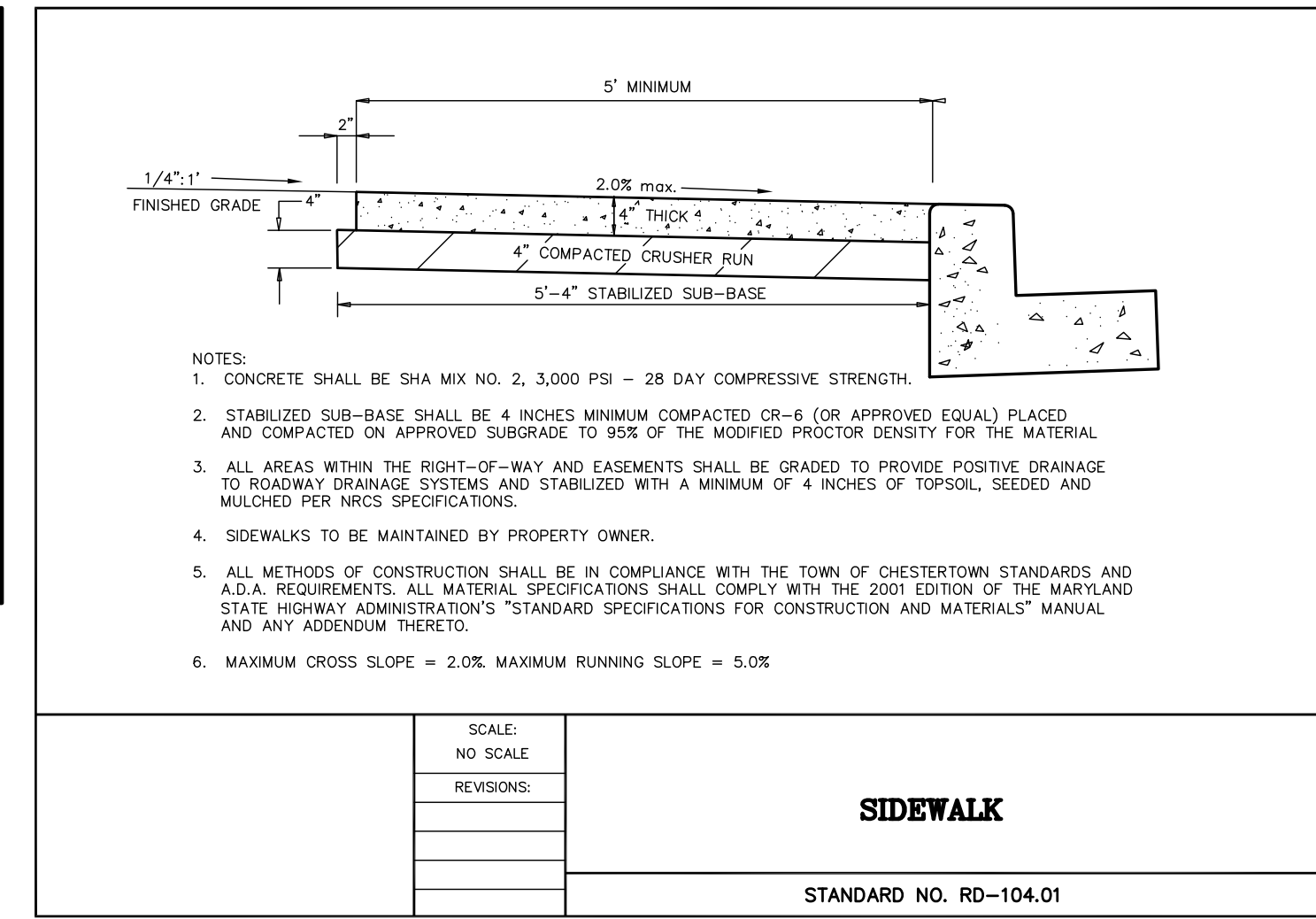
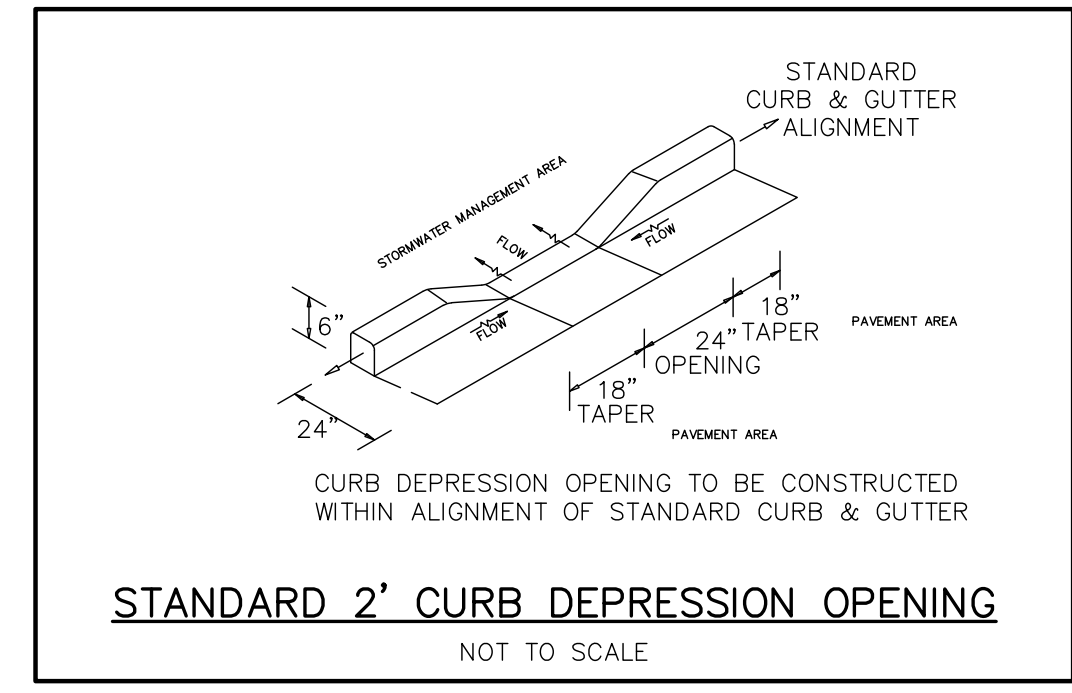
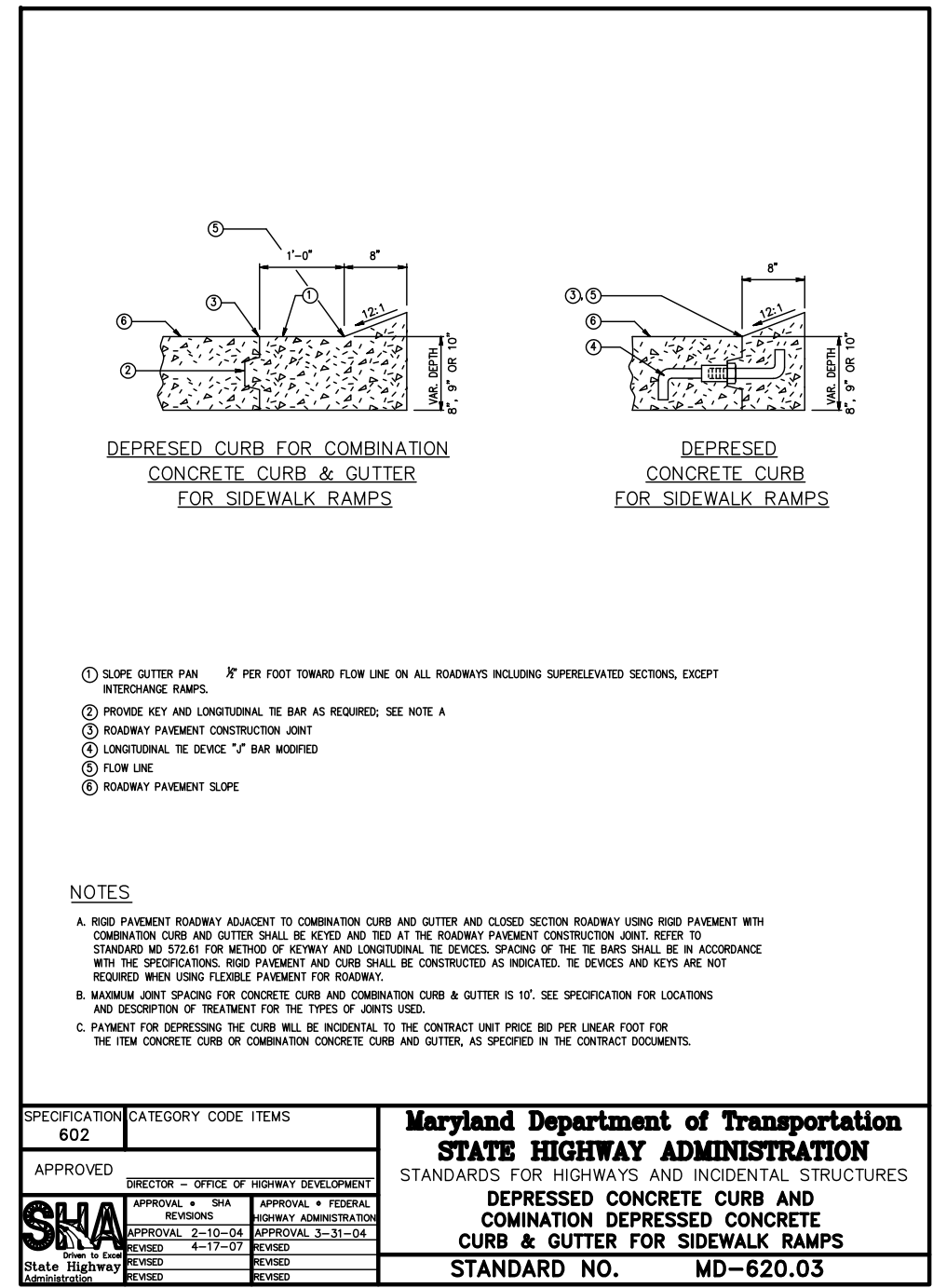
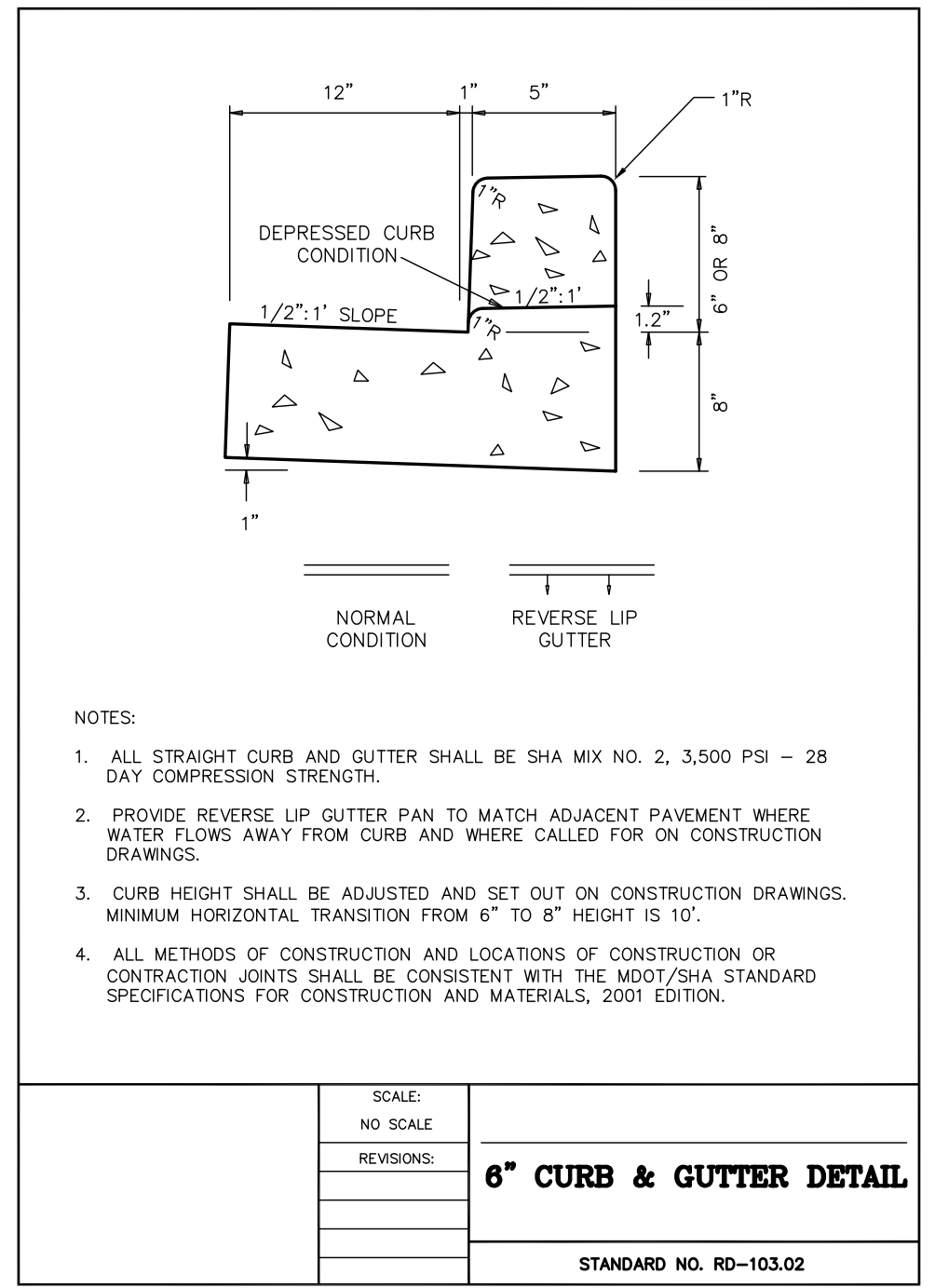


<p>DAVIS, MOORE, SHEARON & ASSOCIATES, LLC ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING P.O. BOX 80 CENTREVILLE, MARYLAND 21617 TEL: 410-296-1100 FAX: 1-443-262-9148</p>							
<p>MANUFACTURING/WAREHOUSE BUILDING ON LOT 2, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1</p>							
<p>OVERALL UTILITY PLAN FOR A</p>							
DATE	SCALE	DESIGNED BY	DATE	REVISION	PER TAC COMMENTS	DATE	REVISION
MARCH '23	1" = 200'	WJM		10-19-23	PER TAC COMMENTS	10-19-23	PER TAC COMMENTS
2021165		KJS		5-24-24	PER TAC COMMENTS	5-24-24	PER TAC COMMENTS
31-2021165							
SHEET No. - C-4.00							
CADD FILE - 21165C2400							

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT _____ DATE _____

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.



KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
KENT COUNTY HEALTH DEPARTMENT
KENT SOIL AND WATER CONSERVATION DISTRICT

APPROVED FOR THE TOWN OF MILLINGTON
MILLINGTON CROSSING ASSOCIATES ONE, LLC
ON LOT 2, THE LANDS OF
MANUFACTURING/WAREHOUSE BUILDING
FOR A
DATE: MARCH 23, 2021
JOB NO. 2021165
DRAWN BY WJM
DESIGNED BY KJS
SHEET NO. - C-5.01
CADD FILE - 21165C2501

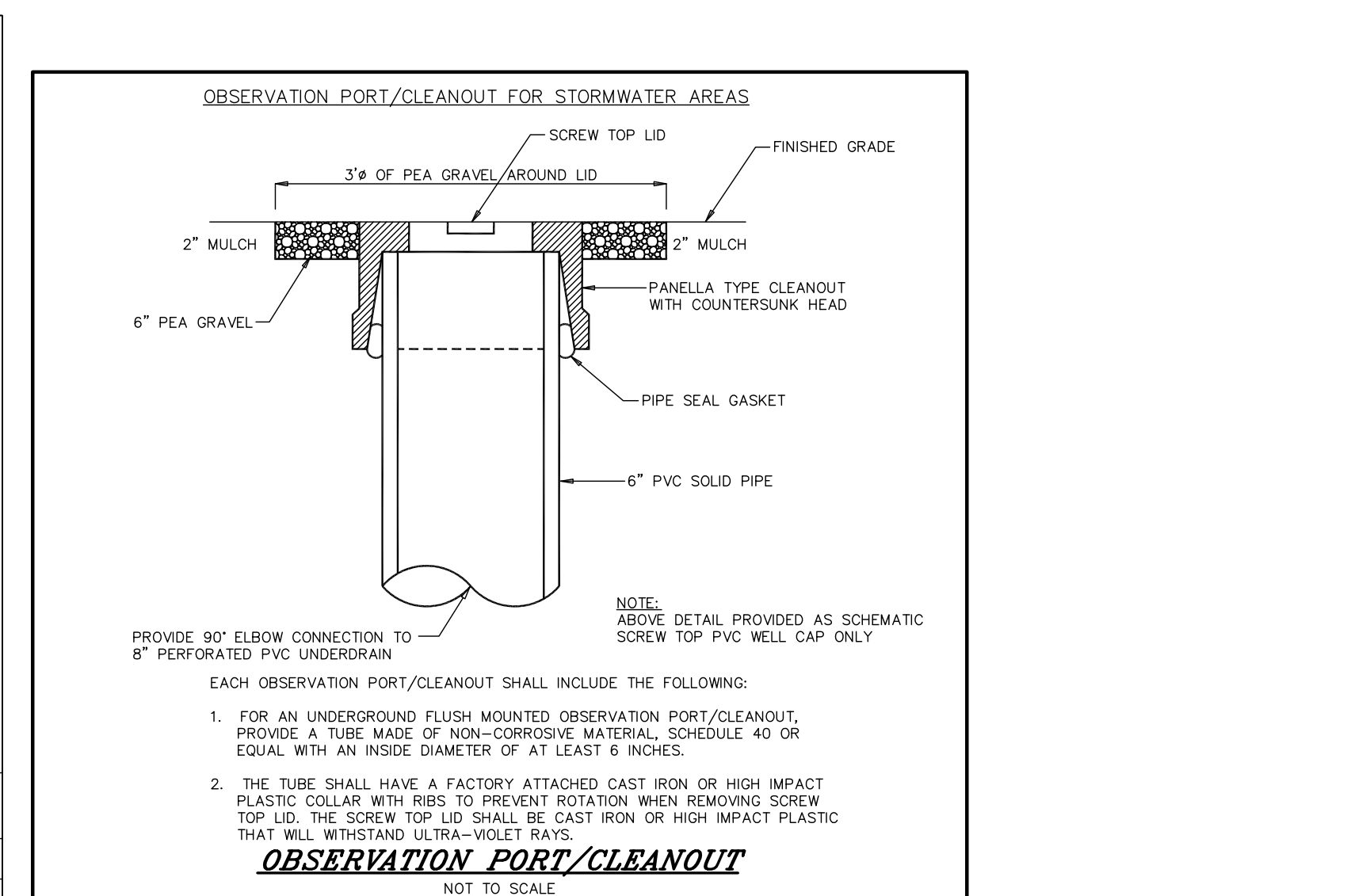
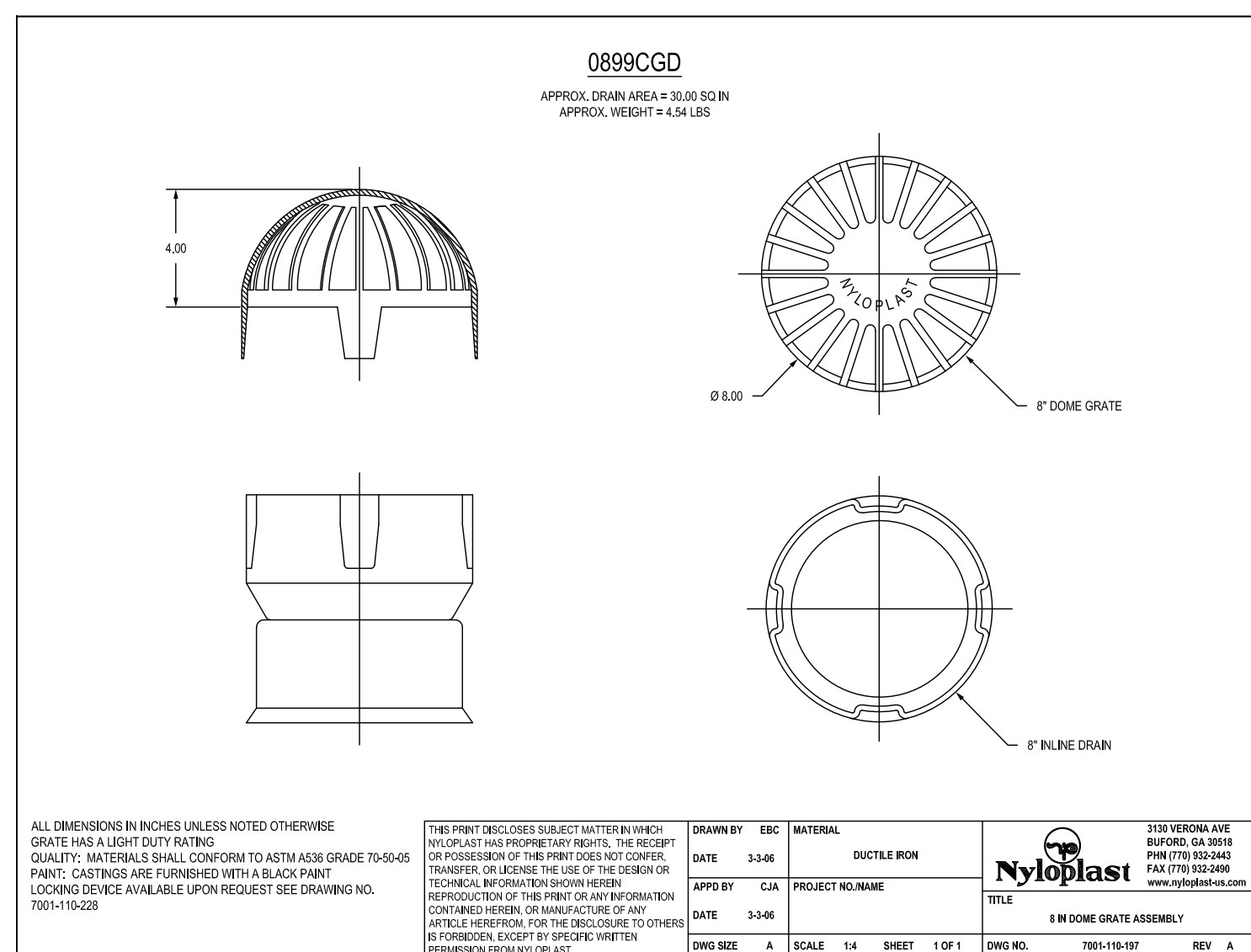
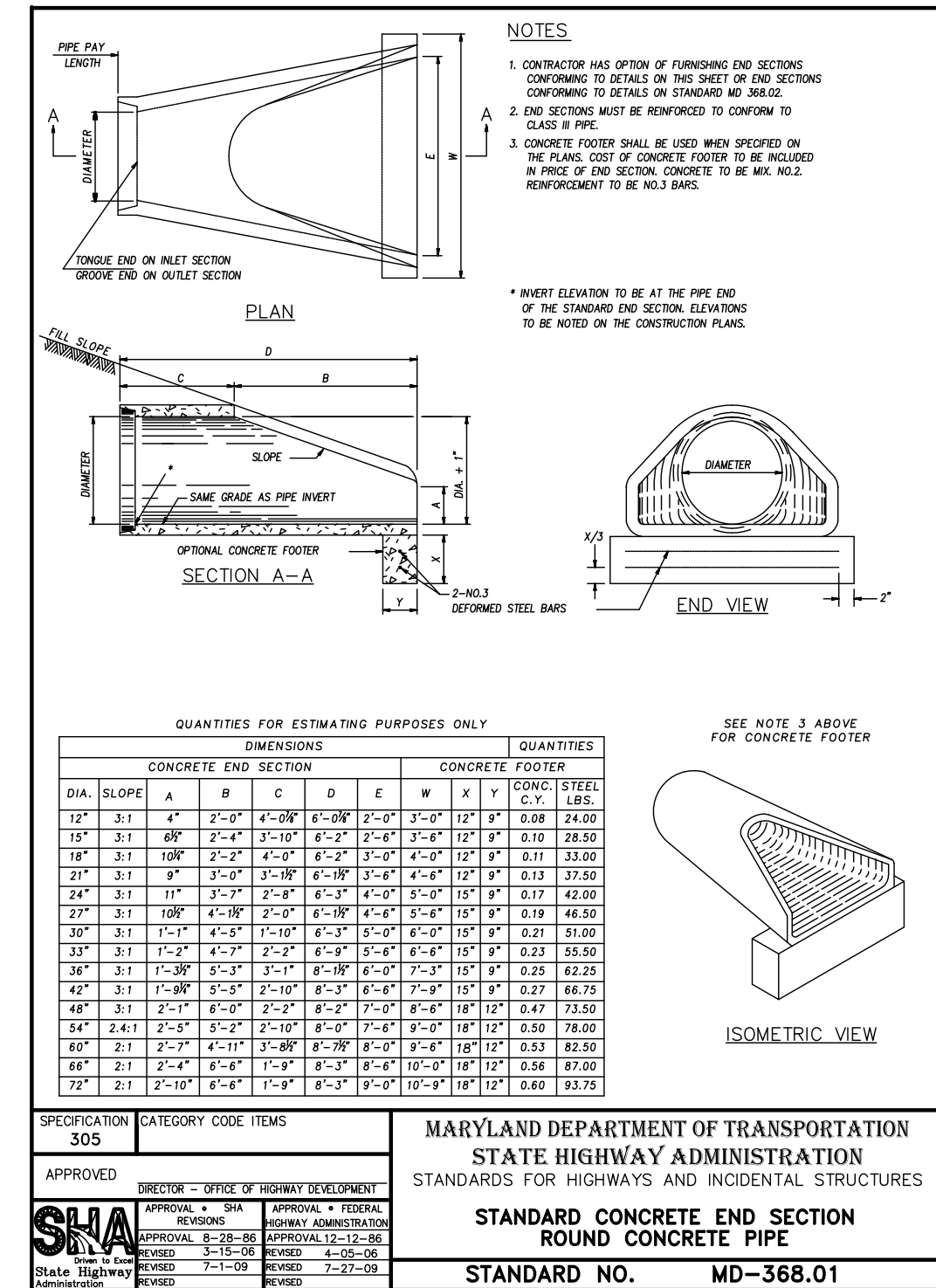
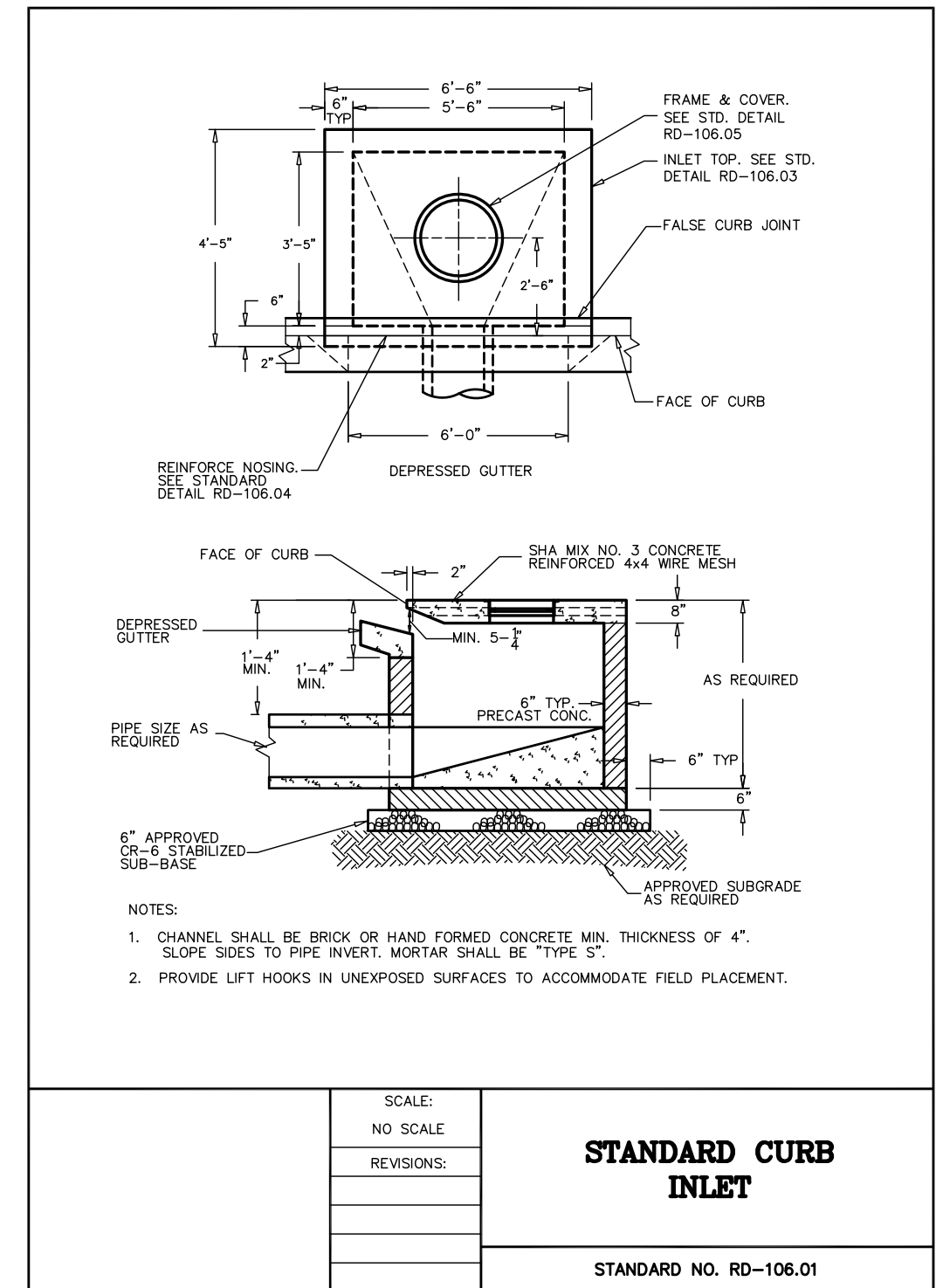
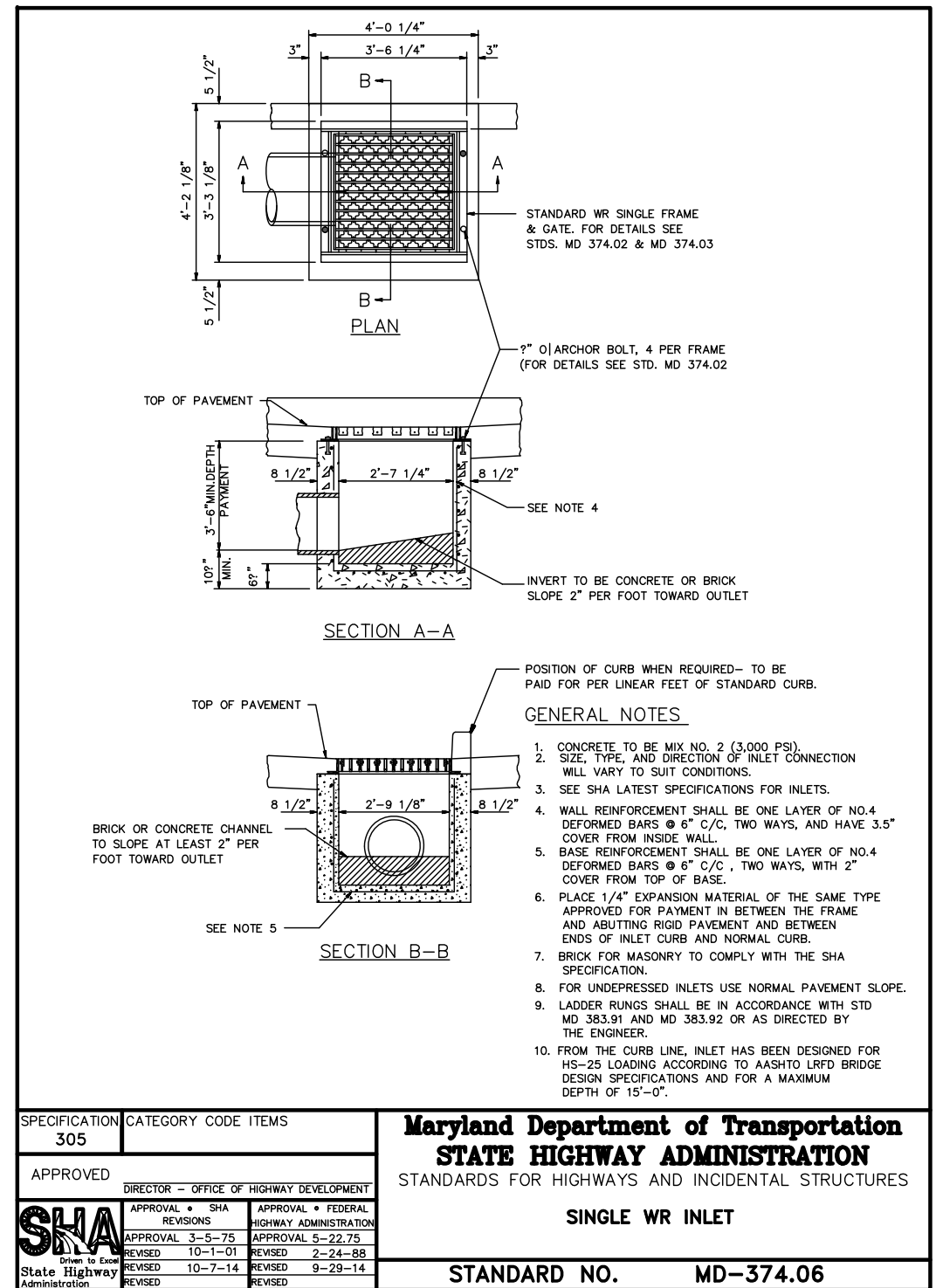
APPROVED: DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT
SHA STATE HIGHWAY ADMINISTRATION
STANDARD NO. MD-655.40

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE: 410-291-1100
FAX: 1-443-262-9148

DATE	REVISION	PER TAC COMMENTS
10-19-23		

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.



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REVISION PER TAC COMMENTS

DATE 10-18-23

FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 2, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1

SCALE: AS SHOWN

DATE: MARCH '23

JOB No.: 202165

FOLDER REF: 31-202165

SHEET No.: C-5.02

CADD FILE - 21165C2502

REVISION PER TAC COMMENTS

DATE 10-18-23

FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 2, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1

SCALE: AS SHOWN

DATE: MARCH '23

JOB No.: 202165

FOLDER REF: 31-202165

SHEET No.: C-5.02

CADD FILE - 21165C2502

REVISION PER TAC COMMENTS

DATE 10-18-23

FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 2, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1

SCALE: AS SHOWN

DATE: MARCH '23

JOB No.: 202165

FOLDER REF: 31-202165

SHEET No.: C-5.02

CADD FILE - 21165C2502

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT

DATE: MARCH '23

JOB No.: 202165

FOLDER REF: 31-202165

SHEET No.: C-5.02

CADD FILE - 21165C2502

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC

ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING

P.O. BOX 80

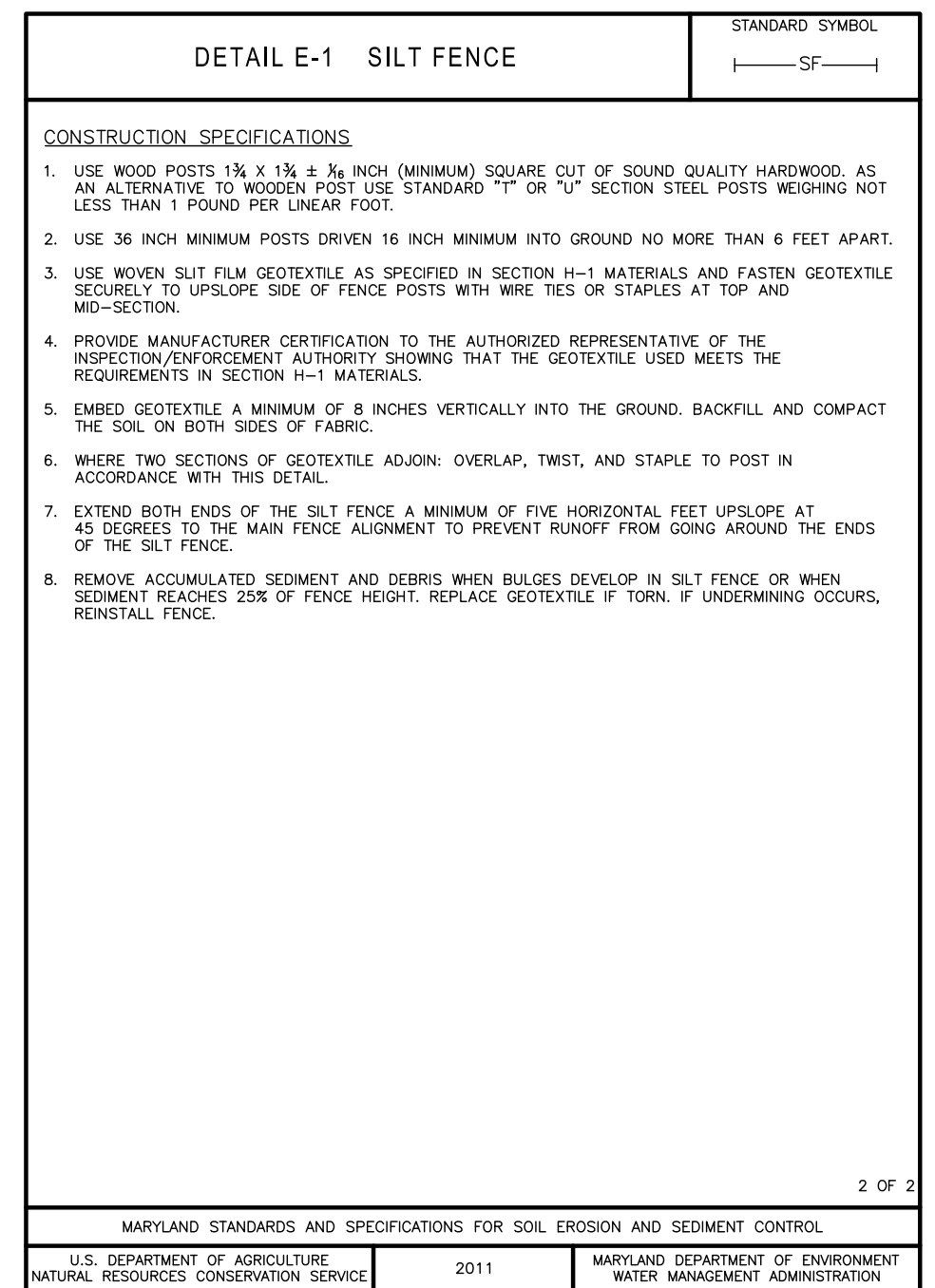
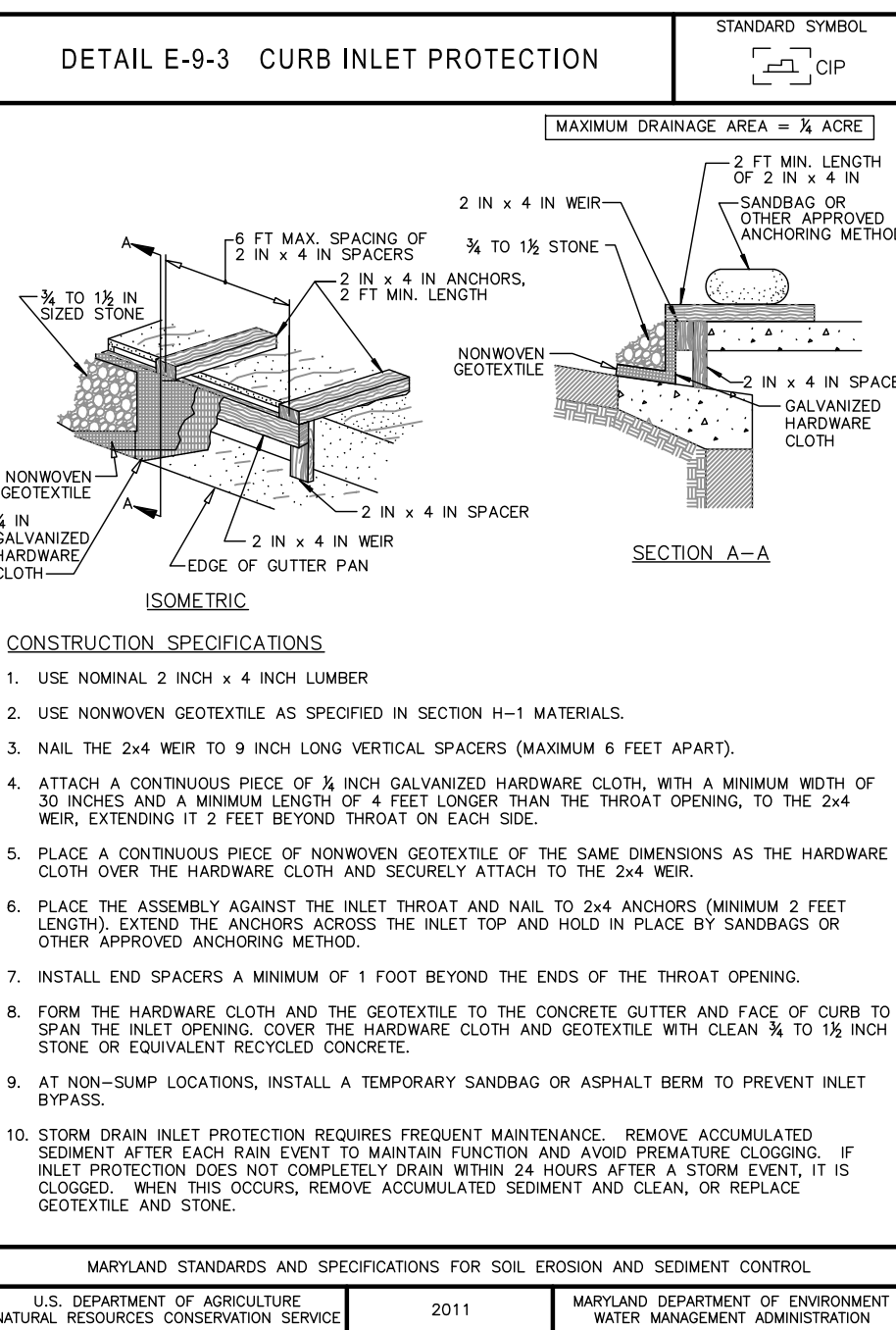
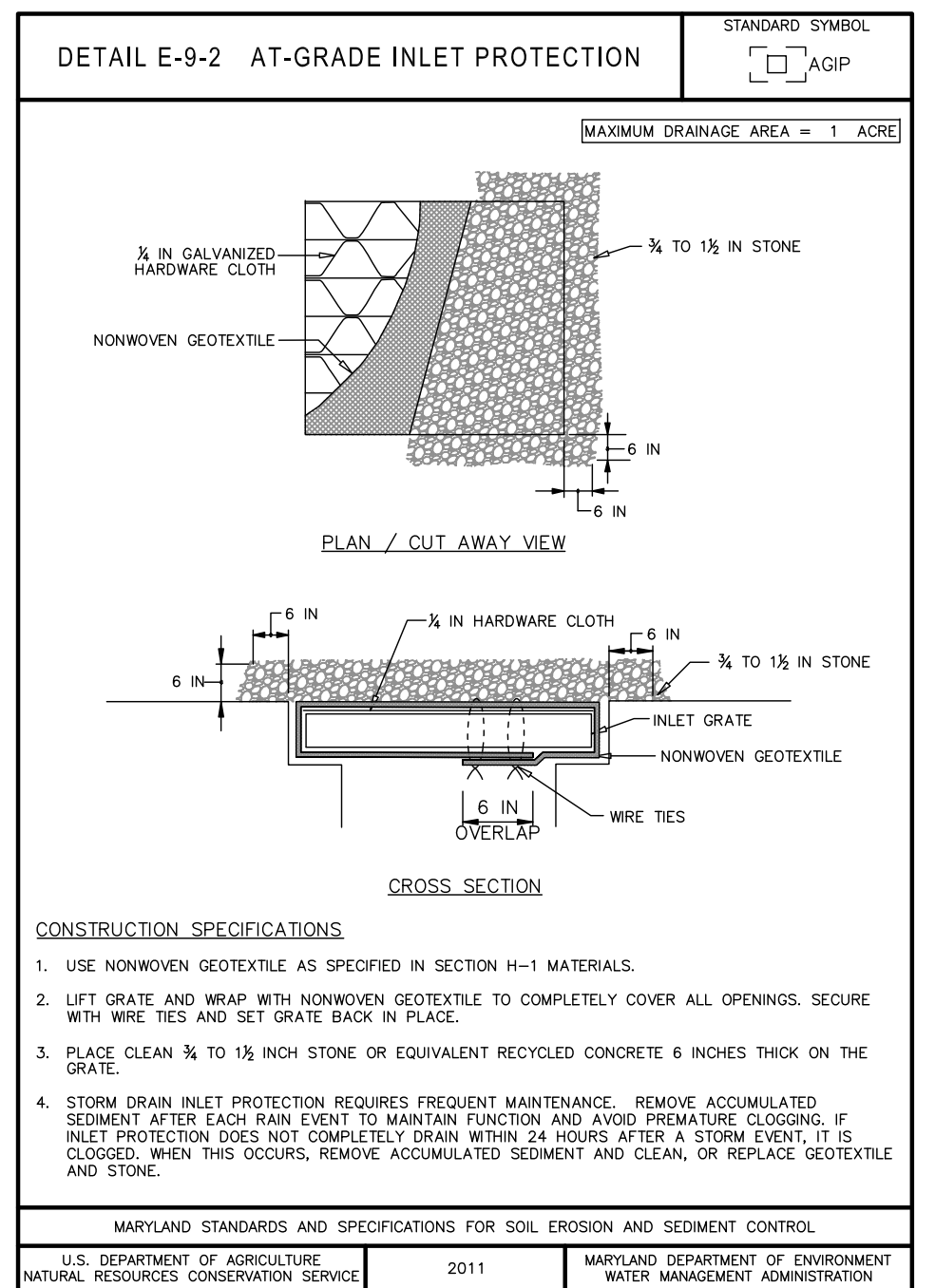
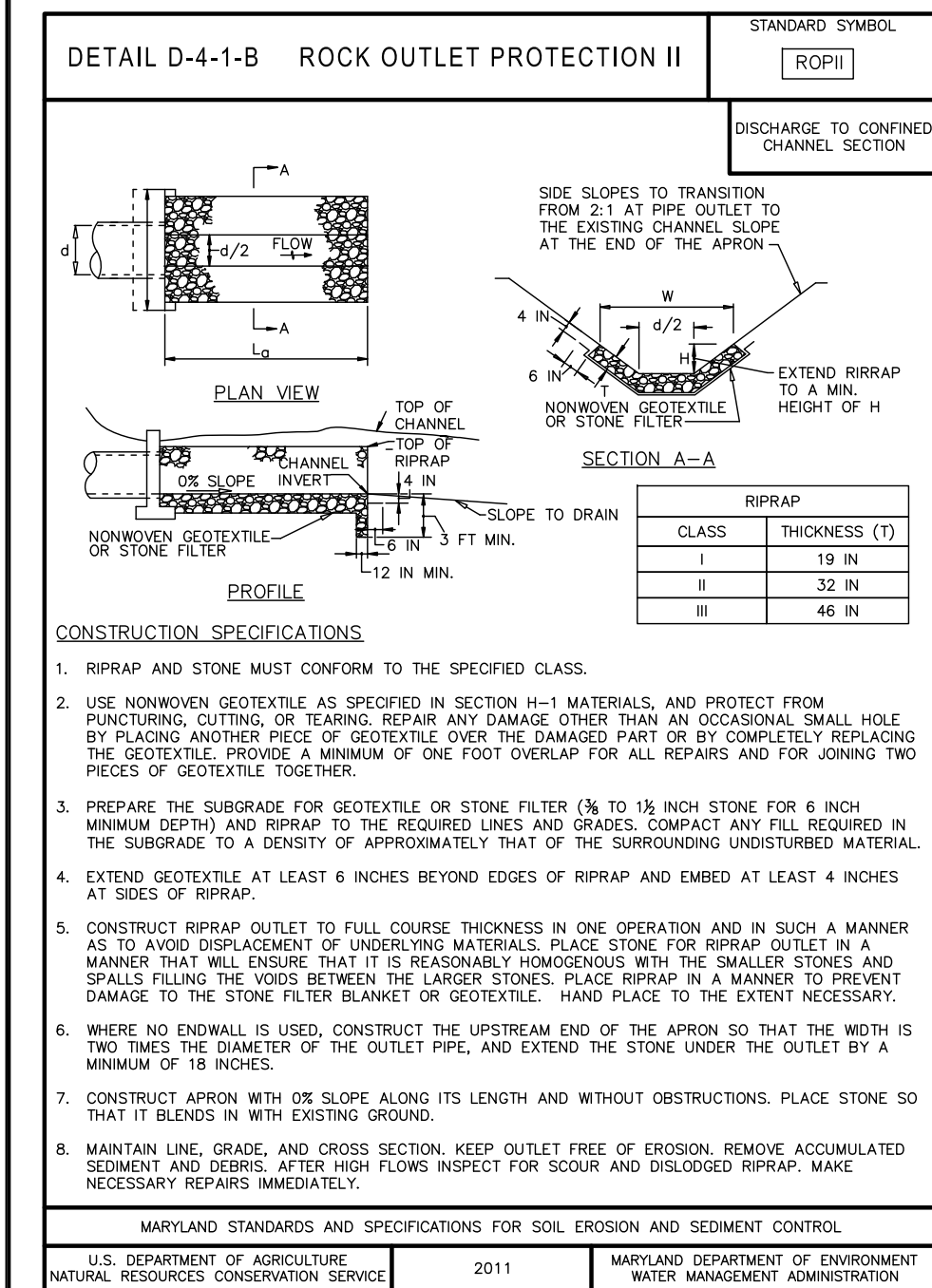
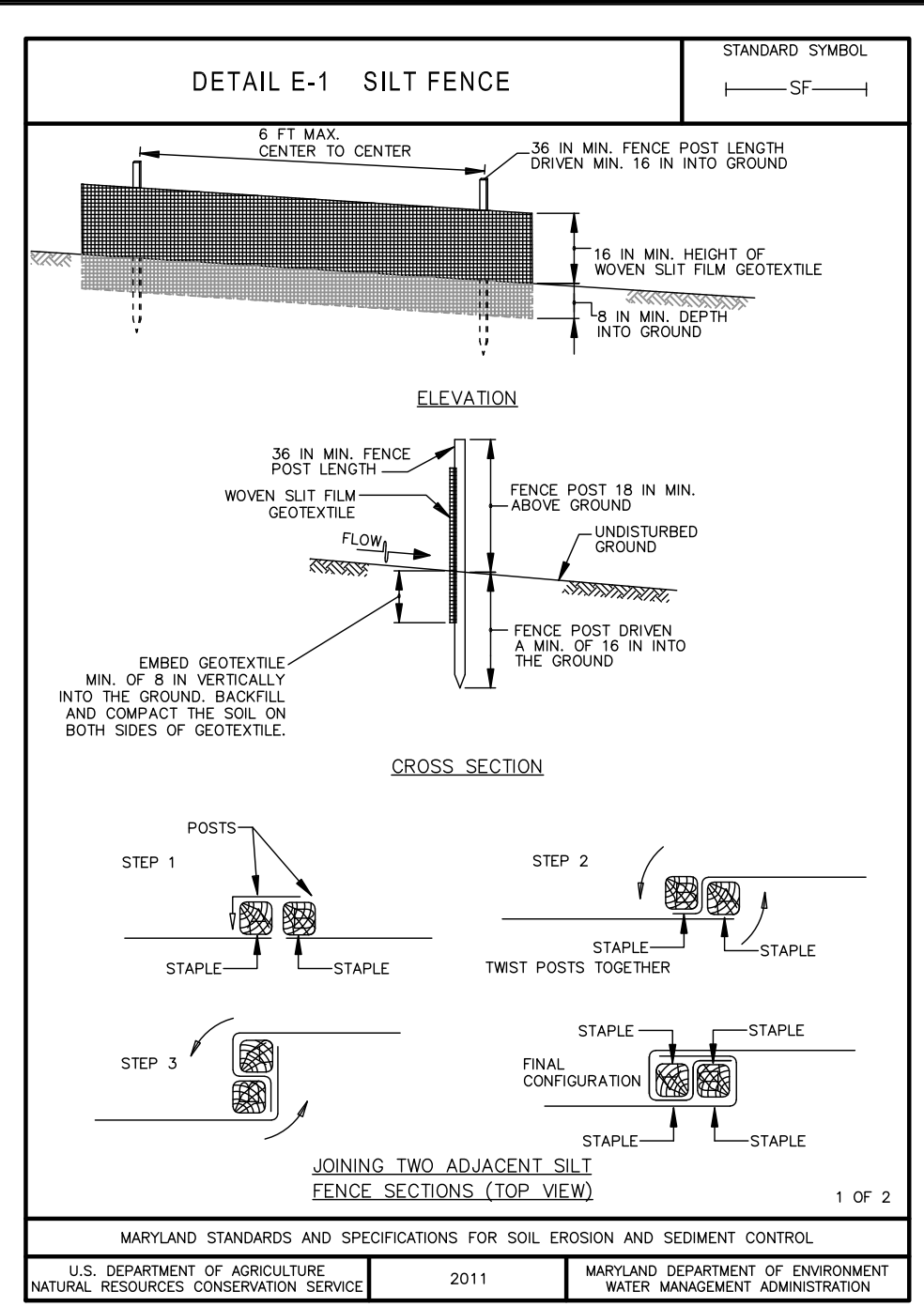
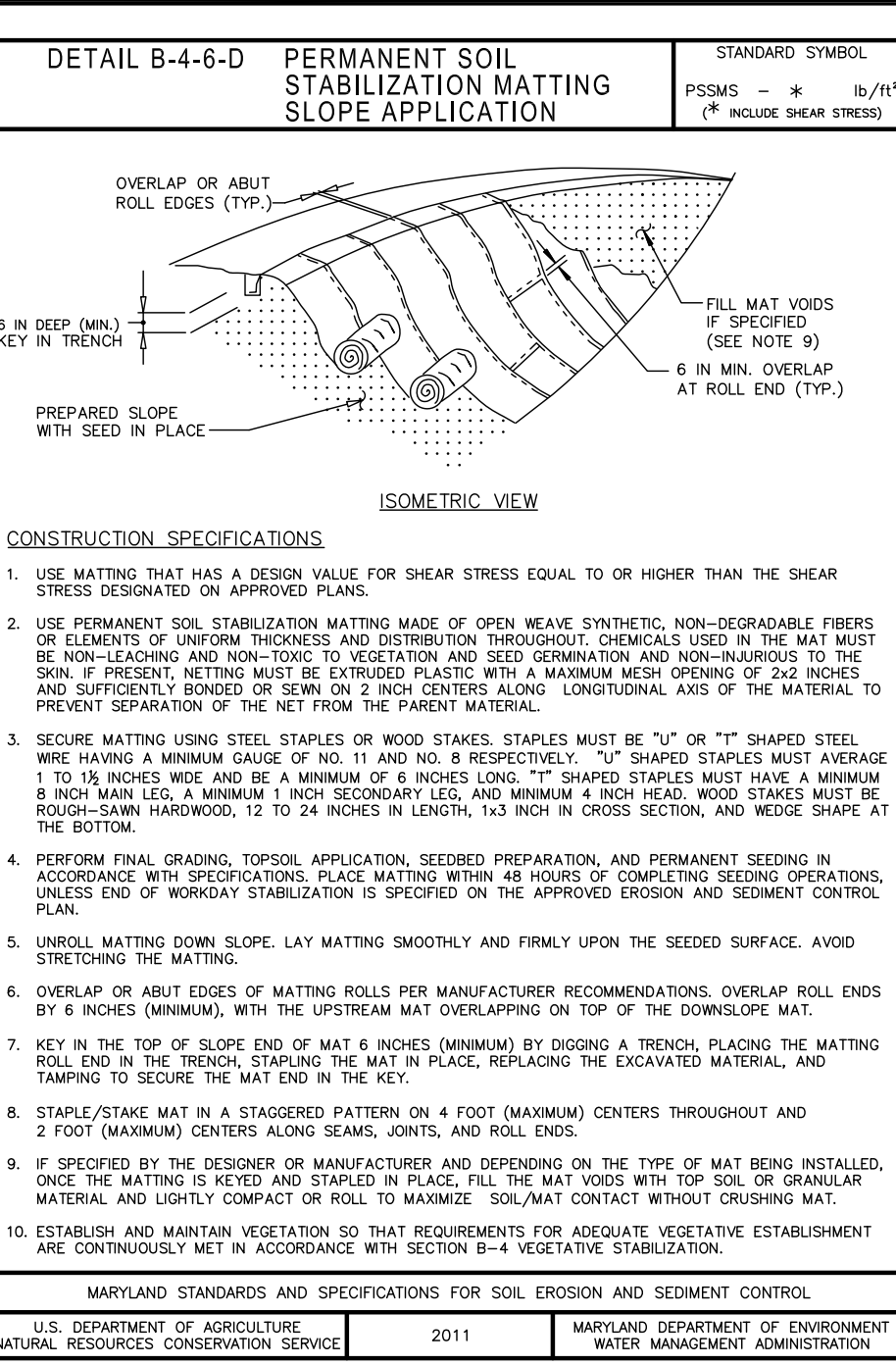
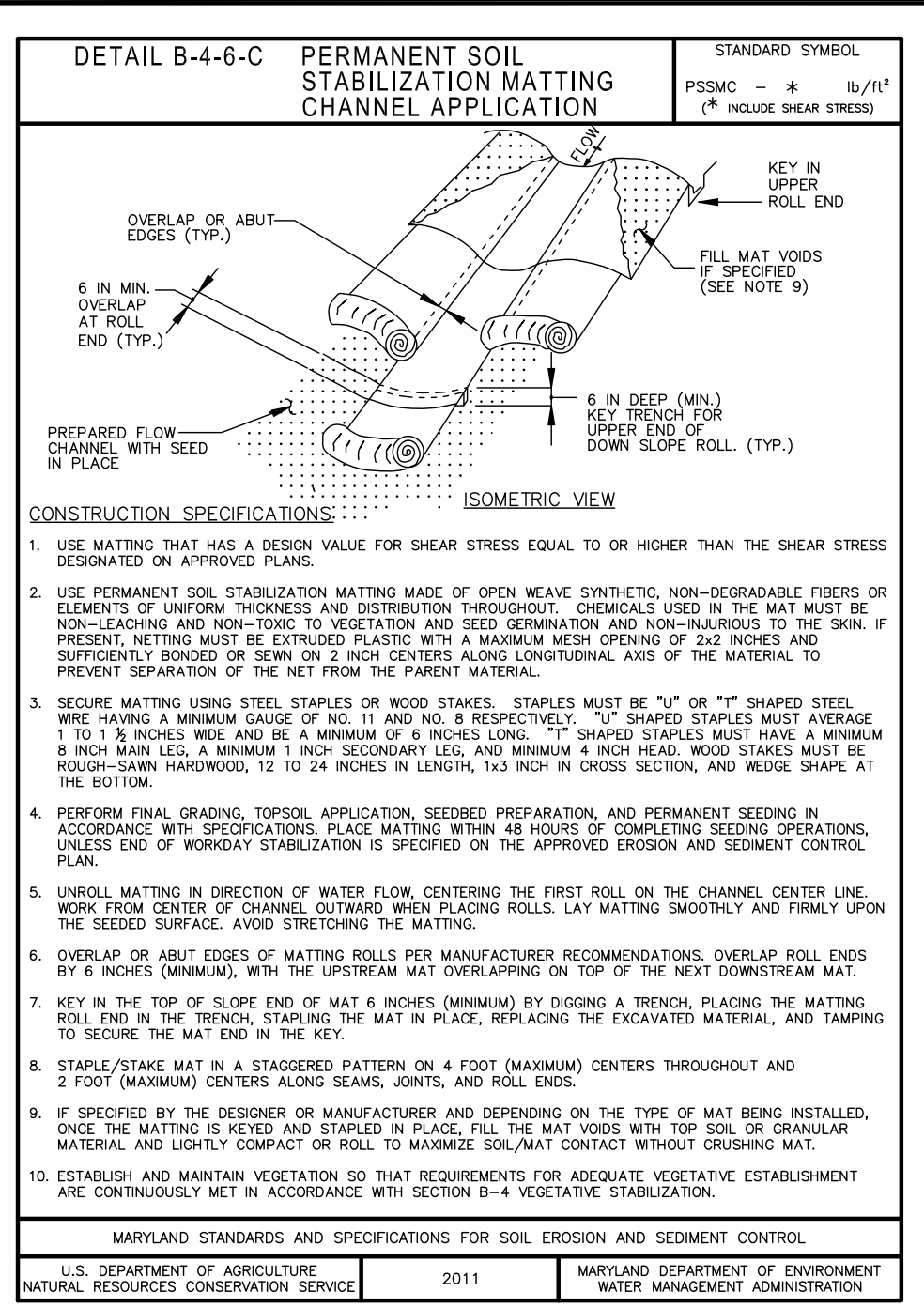
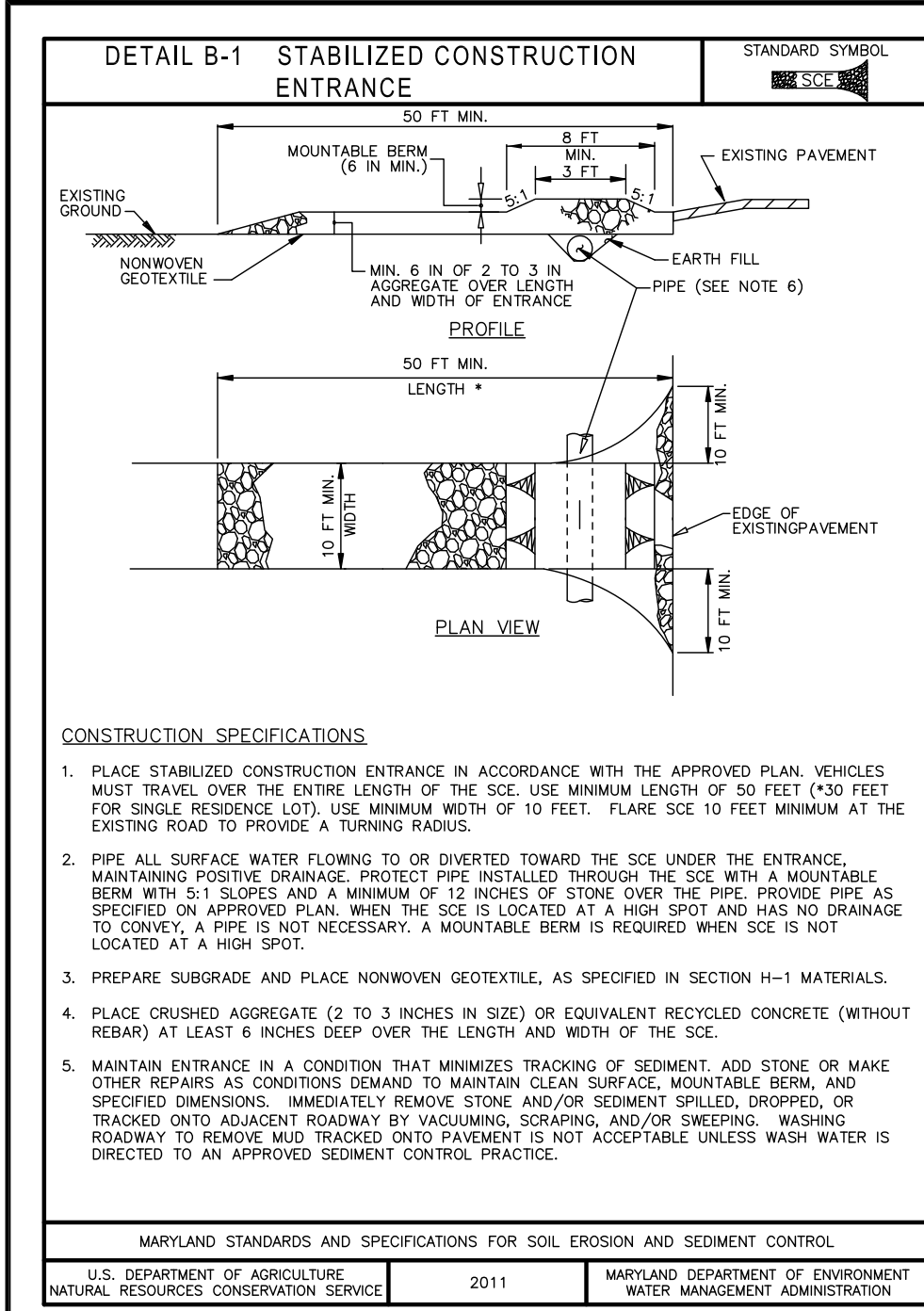
CENTREVILLE, MARYLAND 21617

PHONE: 410-291-1100

FAX: 410-291-1148

OCTOBER 9, 2023

SEAL



GENERAL NOTES

- Notification of Kent County (410-778-7457) at least five (5) days prior to the start of work.
- Prior to the start of work, the Contractor is to obtain County approval of any proposed plan changes and sequence of construction, specifically relating to installation, inspection, maintenance and removal of erosion and sediment control measures.
- Sediment control measures are not to be removed until the areas served have established permanent cover, or with the permission of the Kent County Sediment Control Inspector.
- When pumping sediment-laden water, the discharge must be directed to an approved sediment trapping measure prior to release from the site.
- All temporary stockpiles are to be located within areas protected by sediment control measures, and are to be temporarily stabilized.
- All sediment control dikes, swales, basins and flow lines to basins will be temporarily seeded immediately upon installation to reduce the contribution to sediment loading.
- Disposal of excess earth materials on State or Federal property requires MDE Approval, otherwise materials are to be disposed of at a location approved by the local authority.
- Temporary soil erosion control and sediment control measures are to be provided as per the approved plan prior to grading operations. Location adjustments are to be made in the field as necessary. The minimum area practical shall be disturbed for the minimum possible time.
- If grading is completed out of a seeding season, graded areas are to be temporarily stabilized by mulch and mulch anchoring. Mulch material shall be unchopped, unrotted, small grain straw applied at a rate of 2-2 1/2 tons per acre. Anchor mulch with a mulch anchoring tool on the contour. Wood cellulose fiber may be used for anchoring straw at 750 lbs. per acre mixed with water at a maximum of 50 lbs. of wood cellulose fiber per 100 gals of water, or with a synthetic liquid binder according to manufacturer recommendations. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1,500 lbs. per acre. Mix wood cellulose fiber with water to create a mixture with a maximum of 50 lbs. of wood cellulose fiber per 100 gals of water.
- Permanent seeding shall be accomplished between March 1st through May 15th, or August 15th through October 15th. Permanent seeding at other than specified times will be allowed only upon written approval. Permanent seeding shall conform to the following applications: Permanent seeding for sites having disturbed over five (5) acres shall use fertilizer rates recommended by a soil testing agency and the recommendations provided in the Permanent Seeding Summary Table. Permanent seeding for conditions other than listed above shall be performed at the rates and dates as provided in the Permanent Seeding Summary Table below. Fertilizer and lime amendments shall be incorporated into the top 3" - 5" of the soil by disking or other suitable means. Mulching shall be accomplished as discussed in item #6 of these specifications.

EROSION & SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS

VEGETATIVE STABILIZATION

Seed Mixture (For Areas Zone 7)				Fertilizer (10-20-20)		Line Rate
No.	Species	App. (lb./Ac.)	Seeding Dates	N	P205	K2O
ANNUAL RYE GRASS	50 lbs.	2/15-4/30 8/15-11/30	1/2"			
BARLEY	96 lbs.	2/15-4/30, 8/15-11/30	1"	436 lb/acre	108 lb/acre	2 tons/acre
GRASS	120 lbs.	2/15-4/30, 8/15-11/30	1"	108 lb/acre	108 lb/acre	108 lb/acre
WHEAT	112 lbs.	2/15-4/30, 8/15-11/30	1"			
CEREAL RYE	120 lbs.	2/15-4/30, 8/15-12/15	1"			
FOXTAIL MILLET	30 lbs.	5/1-8/14	1/2"			
PEARL MILLET	30 lbs.	5/1-8/14	1/2"			

MAINTENANCE SCHEDULE

PREVENTATIVE MAINTENANCE SHALL BE ENSURED THROUGH INSPECTION OF ALL INFILTRATION SYSTEMS, RETENTION, OR DETENTION STRUCTURES BY THE KENT COUNTY INSPECTOR. THE INSPECTION SHALL OCCUR DURING THE FIRST YEAR OF OPERATION AND AT LEAST ONCE EVERY 2 YEARS THEREAFTER.

ASBUILT CERTIFICATION

I HEREBY CERTIFY THAT THE FACILITIES SHOWN ON THIS PLAN WERE CONSTRUCTED AS SHOWN ON THE "ASBUILT" PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.

SIGNATURE _____ P.E. No. _____

DATE _____

INSPECTION CHECKLIST

THE CONTRACTOR SHALL NOTIFY THE KENT COUNTY SEDIMENT AND EROSION CONTROL INSPECTOR AT (778-7457) AT THE FOLLOWING POINTS:

- THE REQUIRED PRECONSTRUCTION MEETING.
- FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
- PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE.
- PRIOR TO REMOVAL OF ALL SEDIMENT AND EROSION CONTROL DEVICES.
- PRIOR TO FINAL ACCEPTANCE.

REVISION

NO.	DATE	DESCRIPTION
10-9-23		

SCALE AS SHOWN

DATE MARCH '23

JOB NO. 202165

FOLDER REF. 31-202165

DESIGNED BY KJS

SHEET No. C-5.03

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

DATE _____

KENT SOIL AND WATER CONSERVATION DISTRICT

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

KENT COUNTY HEALTH DEPARTMENT

KENT COUNTY DEPARTMENT OF PUBLIC WORKS

KENT COUNTY WATER CONSERVATION DISTRICT

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC

ENGINEERING, DRAFTING/DESIGN, ENVIRONMENTAL SERVICES & SURVEYING

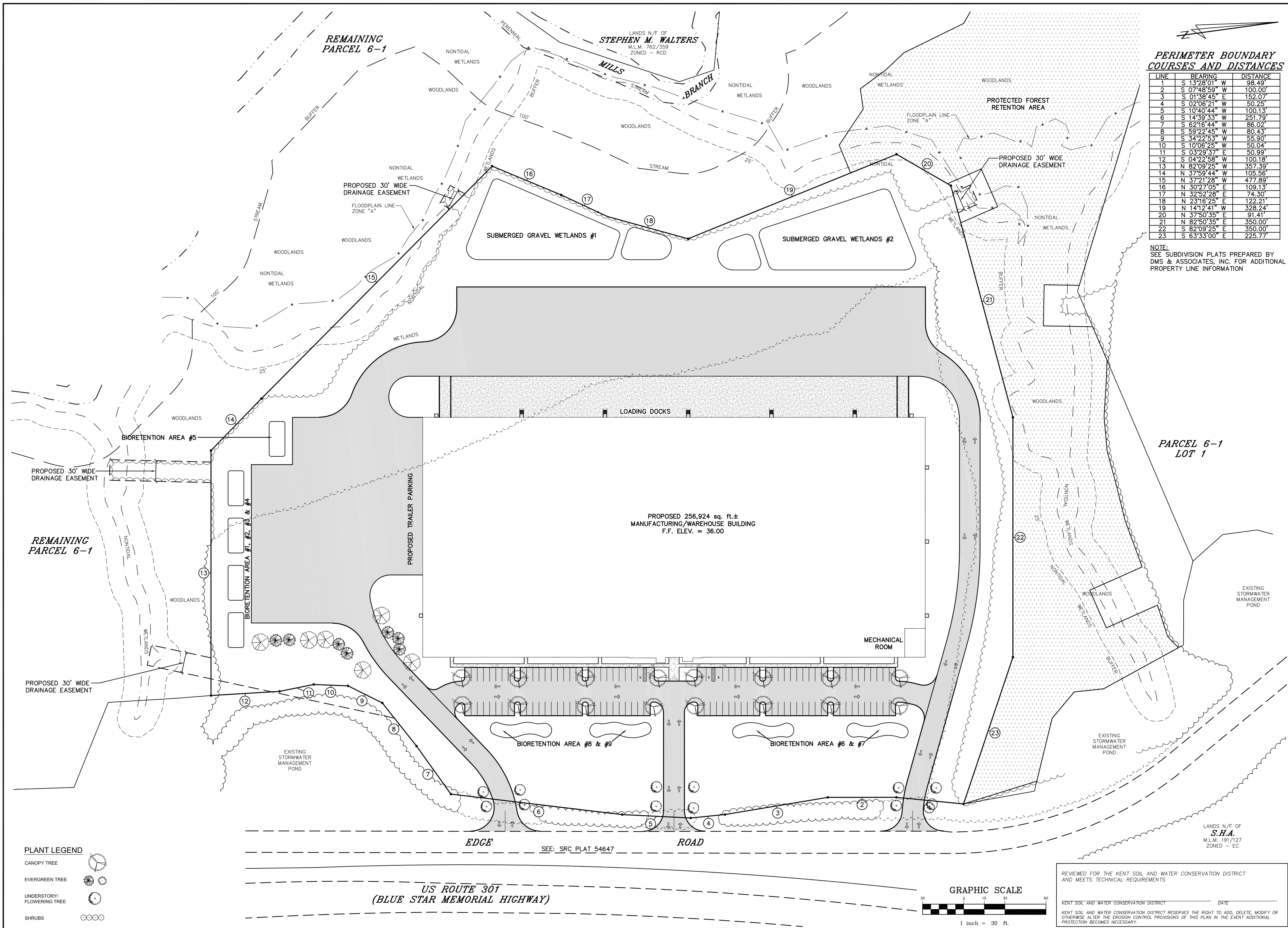
P.O. BOX 80
CENTREVILLE, MARYLAND 21617
PHONE : 410-291-1111
FAX : 1-443-262-9148

ON LOT 2, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC

FIRST ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON

TAX MAP - 31, GRID - 1E, PARCEL - 6-1

CADD FILE - 21165C2503



PERIMETER BOUNDARY COURSES AND DISTANCES

LINE	BEARING	DISTANCE
1	S 13°28'01" W	98.49'
2	S 07°48'59" W	100.00'
3	S 01°38'45" E	152.07'
4	S 02°06'21" W	50.25'
5	S 10°40'44" W	100.13'
6	S 14°39'33" W	251.79'
7	S 62°16'44" W	86.02'
8	S 59°22'45" W	80.43'
9	S 34°22'53" W	55.90'
10	S 10°06'26" W	50.04'
11	S 03°29'37" E	50.99'
12	S 04°22'58" W	100.18'
13	N 82°09'25" W	357.39'
14	N 37°59'44" W	105.56'
15	N 37°21'28" W	477.89'
16	N 30°27'05" E	109.13'
17	N 32°52'28" E	74.30'
18	N 23°16'25" E	122.21'
19	N 14°12'41" W	328.24'
20	N 37°50'35" E	91.41'
21	N 82°50'35" E	350.00'
22	S 82°09'25" E	350.00'
23	S 63°33'00" E	225.77'

NOTE:
SEE SUBDIVISION PLATS PREPARED BY
DMS & ASSOCIATES, INC. FOR ADDITIONAL
PROPERTY LINE INFORMATION

SEAL OF THE KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
NOVEMBER 8, 2023
DATE

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
CENTREVILLE, MARYLAND 21617

HUSTEAD Landscape Architecture, LLC
120 Bay Meadows Lane, Stevensville, MD, 21666
Phone: 443.988.2294
E-mail: v.hustead@husteadia.com Web: www.husteadia.com

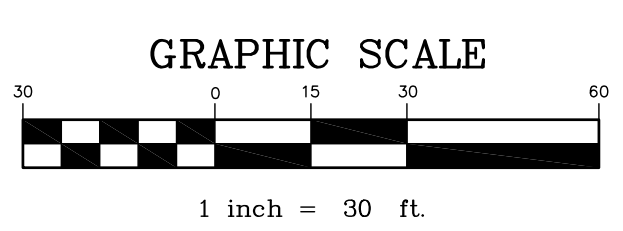
REVISION	DATE

OVERALL LANDSCAPE PLAN
FOR A
MANUFACTURING/WAREHOUSE BUILDING
ON LOT 2, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
THIRD ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
TAX MAP - 31, GRID - 1E, PARCEL - 6-1

DATE	SCALE	1" = 60'
MARCH '23	DRAWN BY	VH
JOB NO.	DESIGNED BY	VH
2021165		
FOLDER #4:		
31-2021165		
SHEET No. -		L-1.00
CADD FILE -		21165L2100

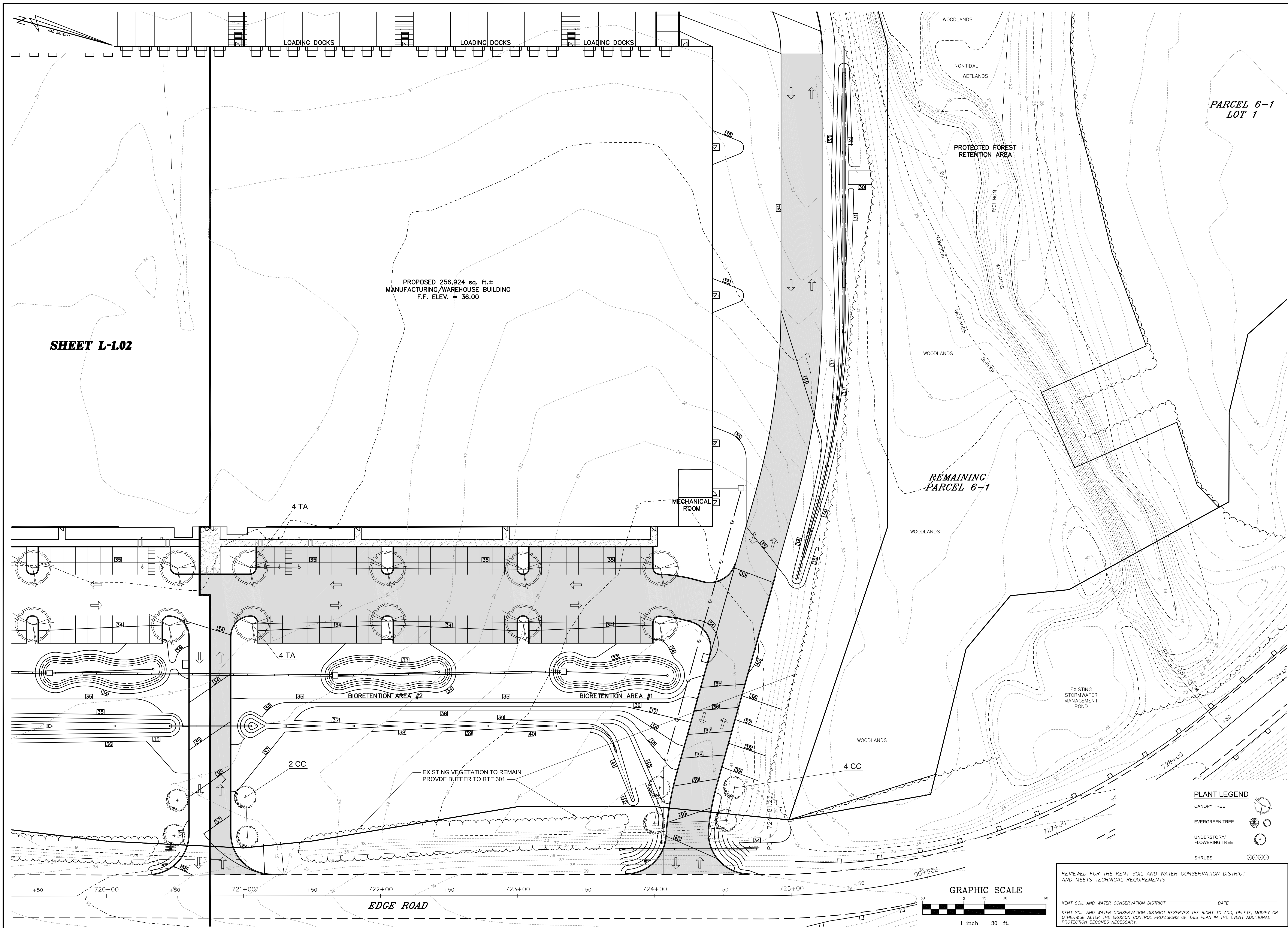
PLANT LEGEND

- CANOPY TREE
- EVERGREEN TREE
- UNDERSTORY/ FLOWERING TREE
- SHRUBS



REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.



SHEET L-1.02

PROPOSED 256,924 sq. ft.±
MANUFACTURING/WAREHOUSE BUILDING
F.F. ELEV. = 36.00

**PARCEL 6-1
LOT 1**

**REMAINING
PARCEL 6-1**

4 TA

MECHANICAL ROOM

4 TA

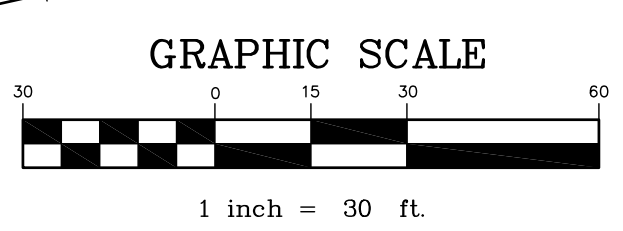
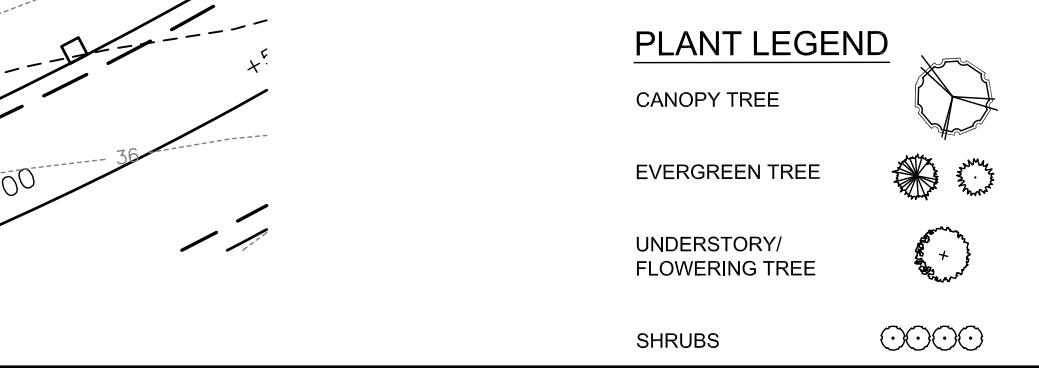
BIORETENTION AREA #2

BIORETENTION AREA #1

2 CC

EXISTING VEGETATION TO REMAIN
PROVIDE BUFFER TO RTE 301

4 CC

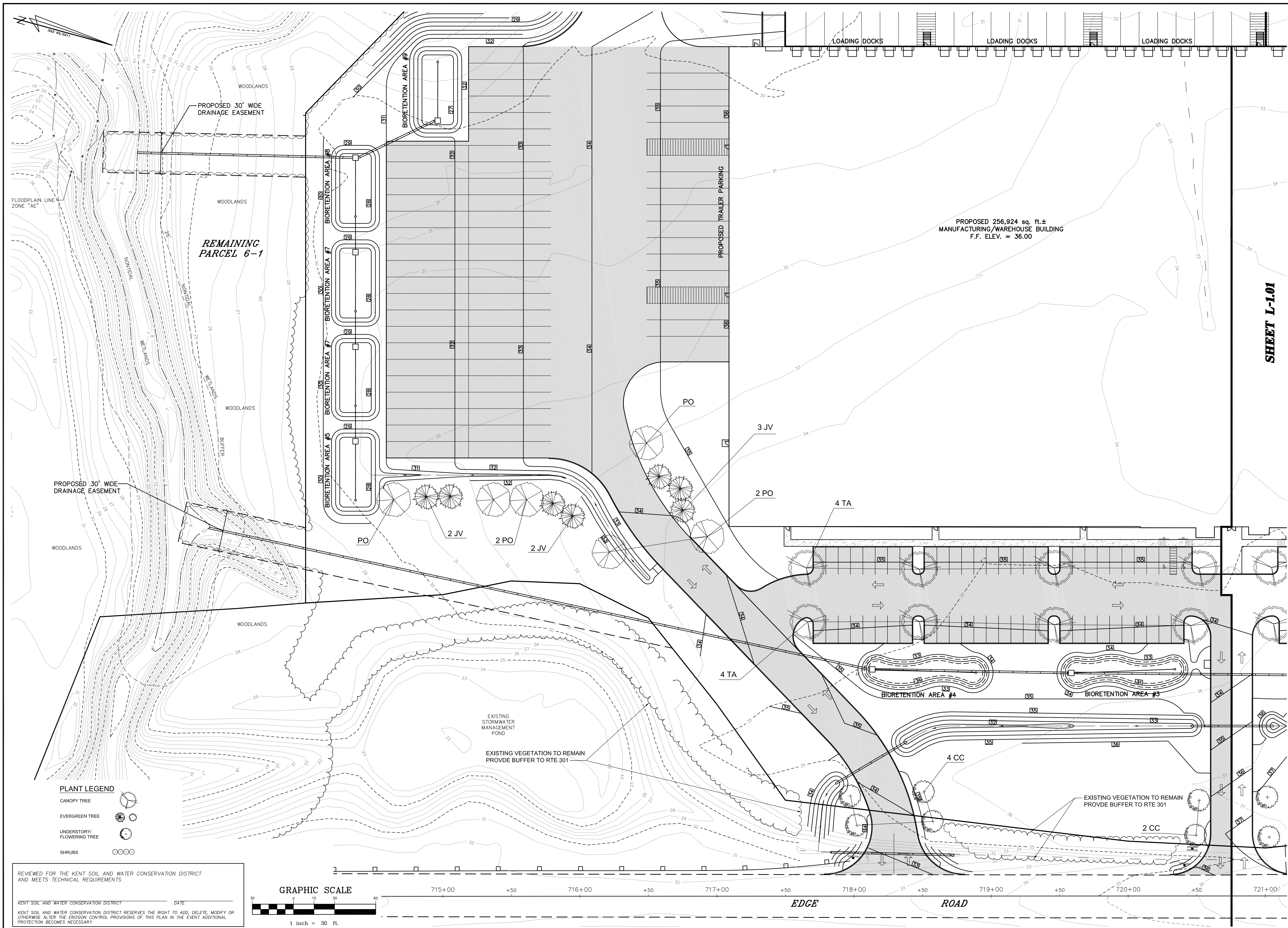


REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT DATE

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

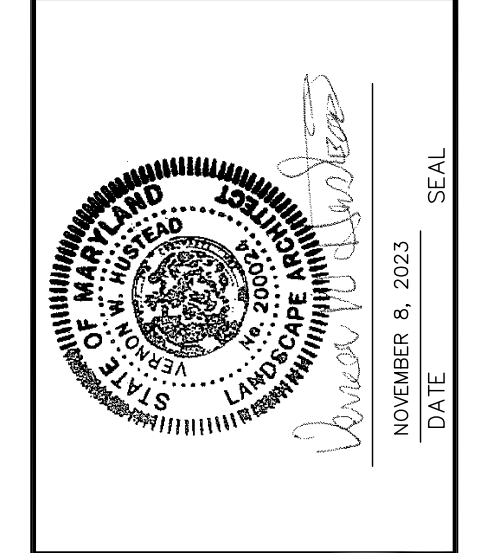
KENT COUNTY DEPARTMENT OF PLANNING AND ZONING KENT COUNTY HEALTH DEPARTMENT KENT SOIL AND WATER CONSERVATION DISTRICT	
DATE: NOVEMBER 8, 2023 SEAL: [Signature]	
DAVIS, MOORE, SHEARON & ASSOCIATES, LLC CENTREVILLE, MARYLAND 21617	
HUSTEAD Landscape Architecture, LLC 120 Bay Meadows Lane, Stevensville, MD, 21666 Phone: 443.988.2294 E-mail: Vhustead@Husteadia.com Web: www.Husteadia.com	
REVISION	
DATE	
LANDSCAPE PLAN FOR A MANUFACTURING/WAREHOUSE BUILDING ON LOT 2, THE LANDS OF MILLINGTON CROSSING ASSOCIATES ONE, LLC THIRD ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON TAX MAP - 31, GRID - 1E, PARCEL - 6-1	
DATE	SCALE
MARCH '23	1" = 30'
JOB NO.	DRAWN BY
2021165	VH
FOLDER #4:	DESIGNED BY
31-2021165	VH
SHEET No. - L-1.01	
CADD FILE - 21165L2101	



SHEET L-101

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
 KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
 KENT COUNTY HEALTH DEPARTMENT
 KENT COUNTY SOIL AND WATER CONSERVATION DISTRICT

DATE: NOVEMBER 8, 2023
 SEAL



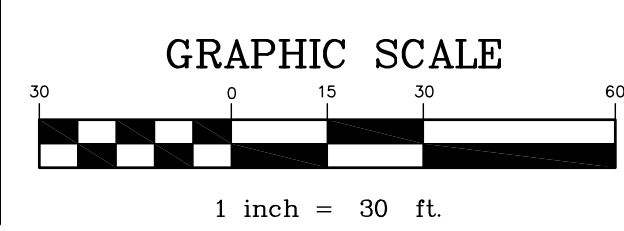
DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
 CENTREVILLE, MARYLAND 21617
HUSTEAD Landscape Architecture, LLC
 120 Bay Meadows Lane, Stevensville, MD, 21166
 Phone: 443.988.2294
 E-mail: vthustead@husteadia.com Web: www.husteadia.com

REVISION	DATE

LANDSCAPE PLAN
 FOR A
MANUFACTURING/WAREHOUSE BUILDING
 ON LOT 2, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
 THIRD ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
 TAX MAP - 31, GRID - 1E, PARCEL - 6-1

SCALE: 1" = 30'
 DATE: MARCH '23
 JOB NO.: 2021165
 DRAWN BY: VH
 FOLDER REF.: 31-2021165
 DESIGNED BY: VH
 SHEET NO.: L-102
 CADD FILE: 21165L102

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.
 KENT COUNTY DEPARTMENT OF PLANNING AND ZONING
 DATE: _____



LANDSCAPING SPECIFICATIONS

OVERALL COMPLIANCE WITH THE TERMS OF THIS LANDSCAPE PLAN INCLUDING ALL MAINTENANCE AND WARRANTY REQUIREMENTS PRESCRIBED HEREON IS THE RESPONSIBILITY OF THE OWNER/DEVELOPER. MAINTENANCE, WARRANTY AND PLANT MATERIAL SURVIVAL RESPONSIBILITIES OF THE LANDSCAPE CONTRACTOR SHALL BE AS SPECIFICALLY NEGOTIATED BETWEEN OWNER/DEVELOPER AND CONTRACTOR.

ALL WORK SHALL BE ACCOMPLISHED WITH QUALIFIED PERSONNEL, UTILIZING INDUSTRY STANDARD PRACTICES AND TECHNIQUES. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL LANDSCAPING SHOWN OR IMPLIED ON THIS PLAN. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR PLAN PREPARER IF SITE PLANTING CONDITIONS WARRANT RE-DESIGN CONSIDERATION AND VERIFY THE RECEIPT OF MOST CURRENT APPROVED BUFFER MANAGEMENT PLAN.

A. MATERIALS
 (1) PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES, AND GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. THEY SHALL HAVE BEEN ROOT PRUNED WITHIN THE LAST TWO YEARS.

THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, PEST, EGGS OR LARVAE, AND SHALL HAVE A HEALTHY, DEVELOPED ROOT SYSTEM. TREES AND SHRUBS SHALL NOT BE PRUNED BEFORE DELIVERY. ALL PLANTS WITH A DAMAGED OR CROOKED LEADER OR MULTIPLE LEADERS, ABRASIONS ON THE BARK, SUNSCALD, DISFIGURING KNOTS OR FRESH CUTS OVER 1 1/2" WILL BE REJECTED. THE OWNER RESERVES THE RIGHT TO HAVE THE PLANT MATERIAL INSPECTED AND TAGGED AT THE GROWING SITE AND TO REJECT ANY DEFICIENT MATERIAL AT THE JOB SITE. THE LANDSCAPE ARCHITECT OR PLAN PREPARER SHALL REJECT ANY AND ALL PLANT MATERIAL THAT DOES NOT MEET SPECIFICATIONS, IS DISEASED, OR IS OTHERWISE UNHEALTHY.

NO CHANGE IN QUANTITY, SIZE, KIND OR QUALITY OF PLANT SPECIFIED WILL BE PERMITTED WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT/DESIGNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE PLANT COUNT AND ANY INSTANCE WHERE THERE IS A DISCREPANCY BETWEEN THE PLAN VIEW AND THE LANDSCAPE SCHEDULE, THE PLAN VIEW SHALL PRESIDE.

(2) TOPSOIL SHALL BE FERTILE, FRIABLE AND TYPICAL OF THE LOCALITY. IT SHALL BE FREE OF STONES, LUMPS, PLANTS, ROOTS, STICKS AND SHALL NOT BE DELIVERED IN A FROZEN OR MUDDY CONDITION. COMPACTED SOILS THAT CANNOT BE RESTORED TO A REASONABLE PLANTING SOIL SHALL BE REMOVED AND REPLACED WITH FRIABLE NATIVE SOILS.

(3) PLANTING SOIL (BACKFILL MIX) SHALL BE THREE PARTS NATIVE TOPSOIL AND ONE PART LEAF-GRO.

(4) STAKING MATERIALS: GUY WIRE SHALL BE PLIABLE 12 GAUGE GALVANIZED TWISTED TWO STRAND WIRE. HOSE SHALL BE A SUITABLE LENGTH OF TWO-PLY, REINFORCED BLACK RUBBER HOSE 3/4" INCH IN DIAMETER; STAKES SHALL CONFORM TO THE DETAIL ON THIS SHEET.

(5) MULCH: MULCH SHALL BE ORGANIC DOUBLE SHREDDED HARDWOOD BARK FREE OF HERBICIDES, LARGE CHUNKS AND WEEDS AND SEED AND AGED A MINIMUM OF 6 MONTHS.

B. APPLICABLE SPECIFICATIONS AND STANDARDS:

- (1) "STANDARDIZED PLANT NAMES," LATEST EDITION AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
- (2) "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, AMERICAN ASSOCIATION OF NURSERYMEN.

C. PRE-DELIVERY DIGGING AND HANDLING OF PLANT MATERIALS:

- (1) IMMEDIATELY BEFORE DIGGING, SPRAY ALL EVERGREEN OR DECIDUOUS PLANT MATERIAL IN FULL LEAF WITH ANTI-DESICCANT, APPLYING AN ADEQUATE FILM OVER TRUNKS, BRANCHES, TWIGS, AND/OR FOLIAGE.
- (2) DIG BALL AND BURLAP (B&B) PLANTS WITH FIRM NATURAL BALLS OF EARTH, OF DIAMETER NOT LESS THAN THAT RECOMMENDED BY AMERICAN STANDARD FOR NURSERY STOCK, AND OF SUFFICIENT DEPTH TO INCLUDE THE FIBROUS AND FEEDING ROOTS. PLANTS MOVED WITH A BALL WILL NOT BE ACCEPTED IF THE BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATIONS.
- (3) THE LANDSCAPE CONTRACTOR SHALL PLAN DELIVERY AND PLANT INSTALLATION TO MINIMIZE STRESS ON PLANT MATERIAL. MATERIAL TO BE STAGED ON OR OFF THE JOB SITE SHALL BE LOCATED TO MAXIMIZE PROTECTION FROM HOT SUN AND DRYING WINDS AND SHALL BE WATERED TO MAINTAIN A STRESS FREE CONDITION. THE LACK OF AVAILABLE WATER SHALL NOT RELIEVE THE CONTRACTOR OF ADEQUATE MAINTENANCE.

D. SITE PREPARATION:

PLANTING AREAS THAT HAVE BEEN IN CONSISTENT AGRICULTURAL PRODUCTION SHALL BE PLANTED WITH NO OTHER REQUIRED SITE PREPARATION.

PLANTING AREAS THAT ARE VEGETATED AND STABLE WITH MINIMAL WEEDS SHALL BE MOWED TO 8" OR AS REQUIRED FOR PLANTING OR SEEDLING INSTALLATION.

E. EXCAVATION OF PLANTING AREAS:

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH OTHER CONTRACTORS ON SITE AND MISS UTILITY TO VERIFY UTILITY LOCATIONS. ANY REPAIRS TO EXISTING UNDERGROUND UTILITIES REQUIRED AS A RESULT OF ACTIONS OF THE CONTRACTOR AND/OR HIS ASSIGNS SHALL BE BORNE BY THE CONTRACTOR.

STAKE OUT ON THE GROUND LOCATIONS FOR PLANTS AND OUTLINES OF AREA TO BE PLANTED AND OBTAIN APPROVAL OF THE LANDSCAPE ARCHITECT/DESIGNER BEFORE EXCAVATION IS BEGUN. CONTRACTOR IS TO CAUTIOUSLY TEST PIT AREAS WHERE UNDERGROUND UTILITIES (ELECTRIC, GAS, CABLE/COMMUNICATION LINES, WATER LINES, SEWER, ROOF LEADERS, STORM DRAIN PIPE, ETC.) ARE SUSPECTED TO EXIST AND WHERE PROPOSED TO BE PLACED ACCORDING TO PLAN TO AVOID ANY DAMAGE OR DISRUPTIONS TO SERVICES. DO NOT PLACE PLANTS DIRECTLY OVER ANY EXISTING UNDERGROUND UTILITIES. OFFSET A REASONABLE AND PRACTICAL DISTANCE TO AVOID ANY IMMINENT OR FUTURE CONFLICT.

F. PLANTING OPERATIONS:

DO NOT MIX OR PLACE SOILS AND SOIL AMENDMENTS IN FROZEN, WET OR MUDDY CONDITION. SUSPEND SOIL SPREADING, GRADING AND FILLING OPERATIONS DURING PERIODS OF EXCESS SOIL MOISTURE UNTIL MOISTURE CONTENT REACHES ACCEPTABLE LEVELS TO ATTAIN THE REQUIRED RESULTS. UNIFORMLY MOISTEN EXCESSIVELY DRY SOIL THAT IS NOT WORKABLE AND TOO DUSTY.

TREE PITS SHALL BE EXCAVATED TO A DEPTH THAT ALLOWS FOR THE PLANTS TO BE SET AT THE SAME RELATIONSHIP TO FINISHED GRADE AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. ADD 1 OZ. OF MYCOAPPLY ENDO GRANULAR PER 2 CU.FT. OF BACKSOIL TO THE SIDES OF THE ROOTBALL. PLANTING PITS SHALL BE DUG A MINIMUM OF 6 INCHES BELOW THE ROOT BALL AND 2 FEET PAST THE EDGE OF THE ROOT BALL TO ALLOW ROOM FOR AN EXPANDED AREA OF PLANTING SOIL. USE PLANTING SOIL TO BACKFILL APPROXIMATELY 2/3 FULL. WATER THOROUGHLY BEFORE INSTALLING REMAINDER OF THE PLANTING SOIL TO TOP OF PIT. ELIMINATING ALL AIR POCKETS. SET PLANTS PLUMB AND BRACE RIGIDLY IN POSITION UNTIL THE PLANTING SOIL HAS BEEN STAMPED SOLIDLY AROUND THE BALL AND ROOTS. CUT ROPES OR STRINGS FROM TOP OF BALL AFTER PLANT HAS BEEN SET. LEAVE BURLAP OR CLOTH WRAPPING INTACT AROUND BALLS. TURN UNDER AND BURY PORTIONS OF BURLAP AT TOP OF BALL. FOR CONTAINER GROWN PERENNIALS, CAREFULLY REMOVE FROM CONTAINERS WITHOUT BREAKING APART PLANTS OR ROOT SYSTEMS AND GENTLY LOOSEN SOIL. PLACE IN PIT EXCAVATED TO THE DEPTH THAT ALLOWS FOR THE PLANT TO BE SET AT ITS FORMER GRADE. BACKFILL TO 2/3 FULL AND WATER THOROUGHLY. BACKFILL WITH REMAINING PLANTING SOIL TO TOP OF PIT. ELIMINATING ALL AIR POCKETS. DISPOSE OF REMOVED CONTAINERS OFFSITE AT AN APPROVED LANDFILL.

PROTECT PLANTS AT ALL TIMES FROM SUN OR DRYING WINDS. PLANTS THAT CANNOT BE PLANTED IMMEDIATELY ON DELIVERY SHALL BE KEPT IN THE SHADE, WELL PROTECTED WITH SOIL, WET MOSS OR OTHER ACCEPTABLE MATERIAL AND SHALL BE KEPT WELL WATERED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN THREE DAYS AFTER DELIVERY. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE BALL ONLY.

MULCH ALL PITS AND BEDS WITH A TWO-INCH LAYER OF BARKMULCH IMMEDIATELY AFTER PLANTING. TO WORKED BEDS OF HERBACEOUS PERENNIALS ADD MULCH TO A DEPTH OF 2". PROVIDE AN 3-FOOT DIAMETER MULCH CIRCLE AROUND THE BASE OF ALL LARGE TREES. IN NO INSTANCE IS MULCH TO BE PILED AGAINST THE BASE OF TREE AND SHRUB TRUNKS. MULCH AREAS AROUND BASE OF EACH PLANT AND IN PLANTER AREAS. WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.

G. STAKING AND PRUNING:

STAKE LARGE TREES IMMEDIATELY AFTER PLANTING. PLANTS SHALL STAND PLUMB AFTER STAKING. STAKES AND GUY WIRES SHALL BE OF THE SIZE AND MATERIAL SPECIFIED ABOVE AND POSITIONED AS SHOWN ON THE ACCOMPANYING PLANTING DETAIL. THEY SHALL BE REMOVED AT THE END OF THE GUARANTEE PERIOD AND DISPOSED OF OFF SITE BY THE CONTRACTOR.

REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN BRANCHES AND PRESERVE THE NATURAL CHARACTER OF THE PLANT.

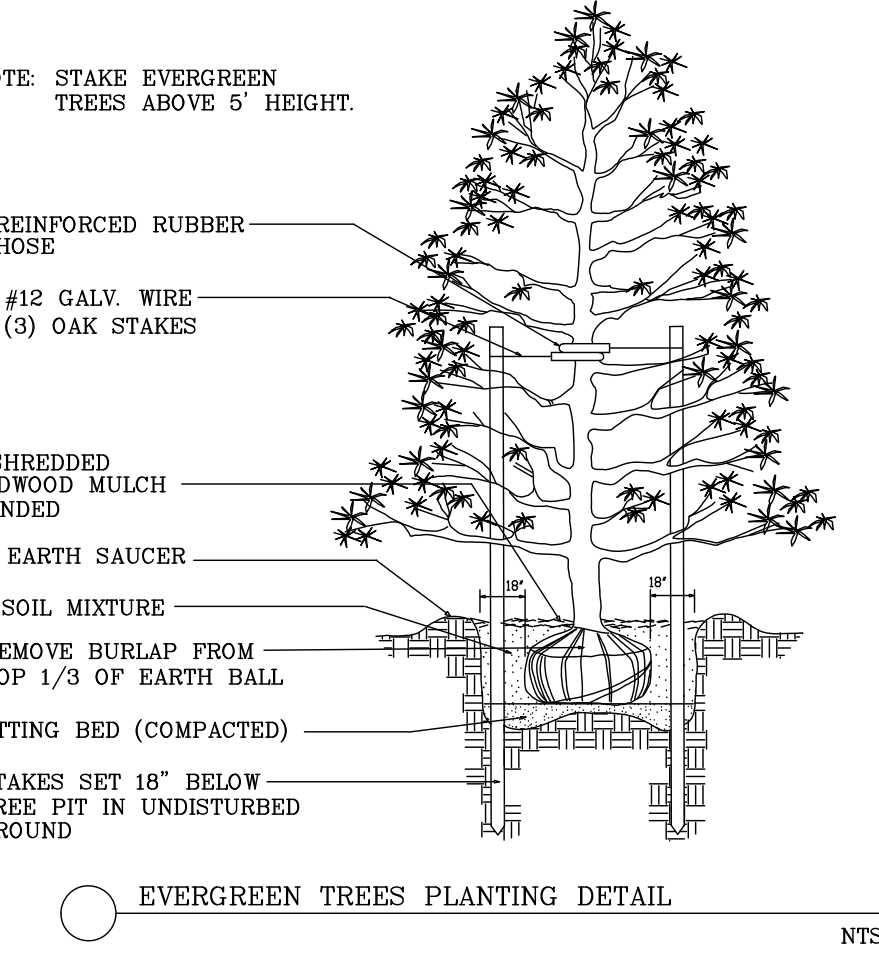
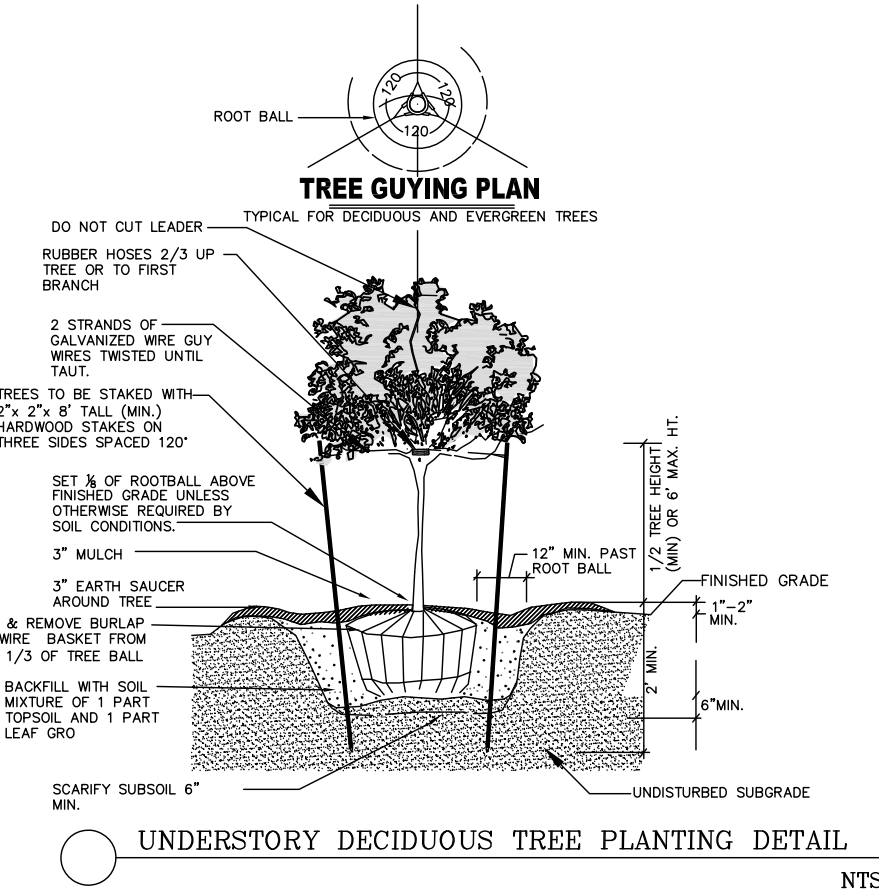
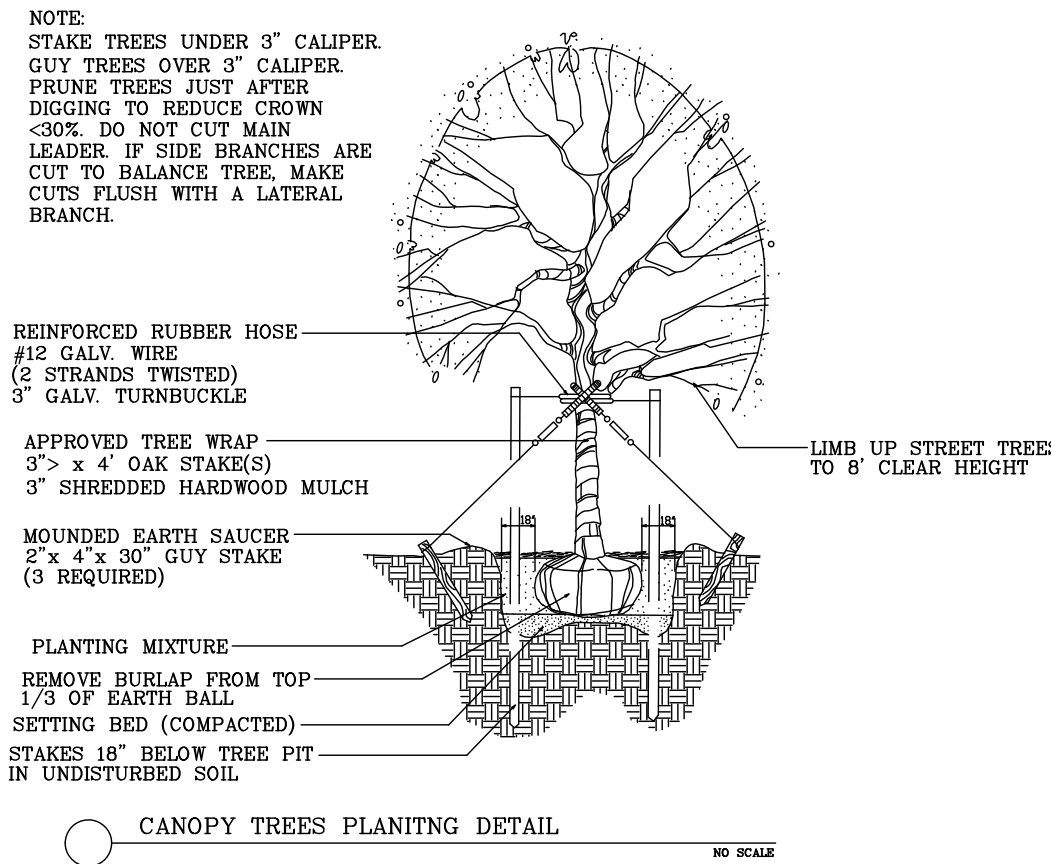
H. POST PLANTING RESPONSIBILITIES:

THE OWNER/DEVELOPER THROUGH HIS/HER CONTRACT WITH THE LANDSCAPE CONTRACTOR IS RESPONSIBLE AND SHALL INSURE ADEQUATE MAINTENANCE IS PROVIDED THROUGH THE INSTALLATION AND WARRANTY PERIOD AND FINAL INSPECTION BY THE COUNTY.

I. GUARANTEE:

TREES AND HERBACEOUS PERENNIALS SHALL BE GUARANTEED FOR TWO (2) FULL YEARS FROM THE DATE THAT THE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETE AND HAVE A 100% SURVIVABILITY RATING AT THE END OF THE TWO YEARS. PLANT MATERIAL NOT FOUND TO BE IN A HEALTHY, VIGOROUS CONDITION AT THE BEGINNING OF THE SECOND GROWING SEASON IS TO BE REPLACED. BARE-ROOT SEEDLINGS SHALL BE GUARANTEED FOR A PERIOD OF FIVE (5) YEARS AND HAVE A 50% SURVIVABILITY RATE AT THE END OF 5 YEARS. SEEDLINGS NOT FOUND TO BE IN A HEALTHY VIGOROUS CONDITION AT THE END OF THE FIVE-YEAR PERIOD ARE TO BE REPLACED.

PLANTING DETAILS



PLANT SCHEDULE

KEY	QUA	BOTANICAL NAME	COMMON NAME	NATIVE	SIZE
<i>Canopy Trees</i>					
PO	6	Platanus occidentalis	Sycamore	Y	2 - 2 1/2" Cal. B&B
TA	16	Tilia americana	Basswood	Y	2 - 2 1/2" Cal. B&B
<i>Understory Trees</i>					
CC	12	Cercis canadensis	Eastern Redbud	Y	1 - 1 1/2" Cal. B&B
<i>Evergreen Trees</i>					
JV	7	Juniperus virginiana/Burkii	Burkii Estem Redcedar	Y	5 - 6" Ht. B&B

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

KENT COUNTY DEPARTMENT OF PLANNING AND ZONING

NOVEMBER 8, 2023
 DATE

DAVIS, MOORE, SHEARON & ASSOCIATES, LLC
 CENTREVILLE, MARYLAND 21617

HUSTEAD Landscape Architecture, LLC
 120 Bay Meadows Lane, Stevensville, MD, 21666
 Phone - 443.988.2294
 E-mail: Vhustead@husteadia.com Web: www.Husteadia.com

REVISION	DATE

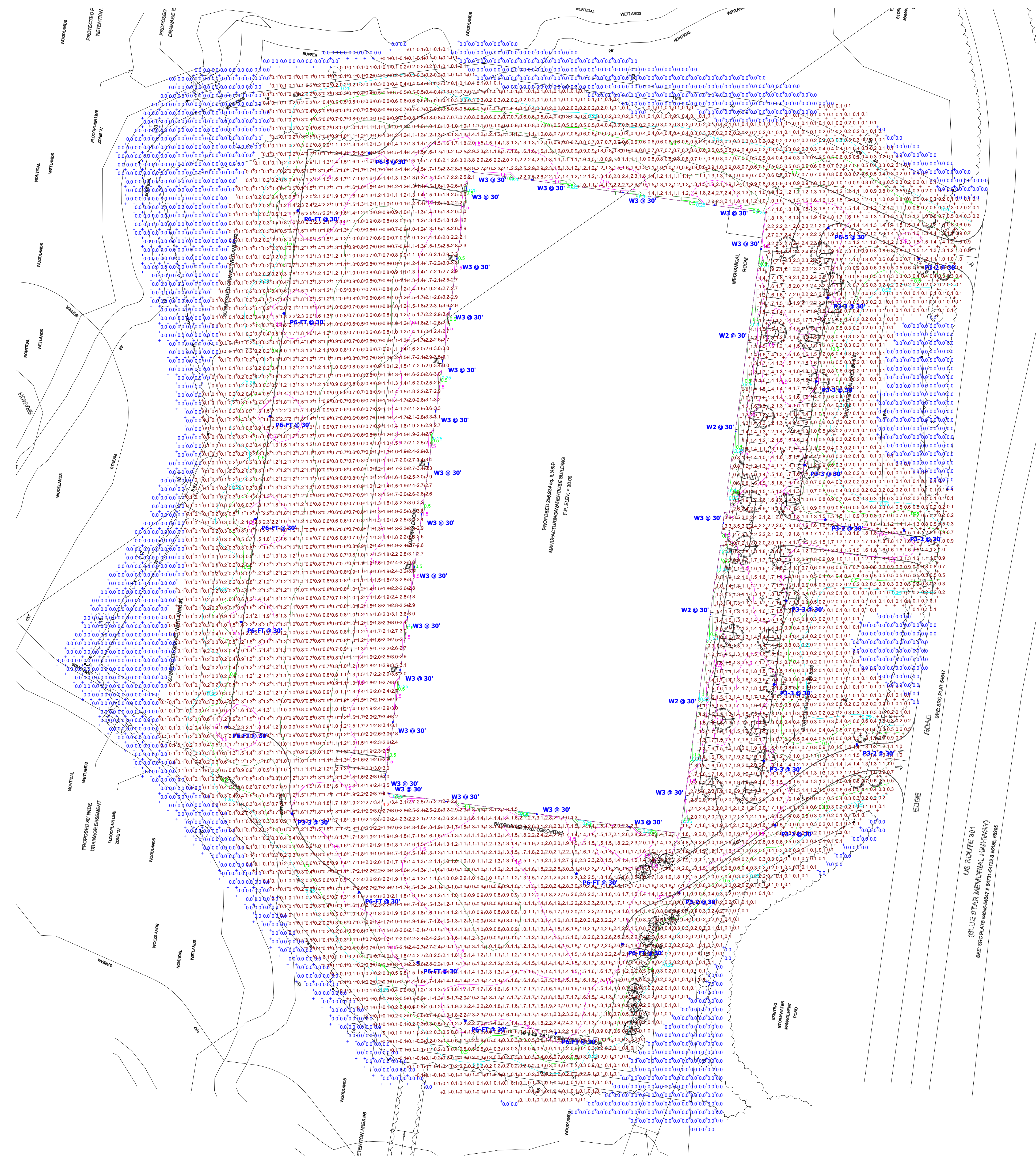
LANDSCAPE DETAILS AND SPECIFICATIONS FOR A
MANUFACTURING/WAREHOUSE BUILDING
 ON LOT 2, THE LANDS OF
MILLINGTON CROSSING ASSOCIATES ONE, LLC
 THIRD ELECTION DISTRICT, NEAR THE TOWN OF MILLINGTON
 TAX MAP - 31, GRID - 1E, PARCEL - 6-1

SCALE AS SHOWN
 DATE MARCH '23
 JOB No. 202165
 DRAWN BY VH
 FOLDER #4: 31-202165
 DESIGNED BY VH
 SHEET No. - L-1.03
 CADD FILE - 21165L2103

REVIEWED FOR THE KENT SOIL AND WATER CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

KENT SOIL AND WATER CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
P3-2			6	Lithonia Lighting	DSX1 LED P3 30K 70CRI T2M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 2 Medium	1	13055	0.95	102.17	
P3-3			7	Lithonia Lighting	DSX1 LED P3 30K 70CRI T3M	D-Series Size 1 Area Luminaire P3 Performance Package 3000K CCT 70 CRI Type 3 Medium	1	13206	0.95	102.17	
P6-FT			12	Lithonia Lighting	DSX1 LED P6 30K 70CRI TFTM	D-Series Size 1 Area Luminaire P6 Performance Package 3000K CCT 70 CRI Forward Throw	1	20140	0.95	165.25	
P6-5			2	Lithonia Lighting	DSX1 LED P6 30K 70CRI T5M	D-Series Size 1 Area Luminaire P6 Performance Package 3000K CCT 70 CRI Type 5 Medium	1	20579	0.95	165.25	
W2			4	Lithonia Lighting	WDGE2 LED P4 30K 70CRI T1S	WDGE2 LED WITH P4 - PERFORMANCE PACKAGE, 3000K, 70CRI, TYPE 1 SHORT OPTIC	1	4295	0.95	46.6589	
W3			23	Lithonia Lighting	WDGE3 LED P4 70CRI R4 30K	WDGE3 LED WITH P4 - PERFORMANCE PACKAGE, 3000K, 70CRI, TYPE 4 OPTIC	1	11554	0.95	87.8914	



D-Series Size 1 LED Area Luminaire

Specifications

- EPA: 0.49 ft² (0.6 m²)
- Length: 32.71" (83.1 cm)
- Width: 14.26" (36.2 cm)
- Height H1: 7.88" (20.0 cm)
- Height H2: 2.73" (6.9 cm)
- Weight: 34 lbs (15.4 kg)

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBX2

Series	LEDs	Color temperature ¹	Color Rendering Index ²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	(this section 70CRI only)	70CRI	AFR Automotive front row	MVOLT (120V-277V) ³	Shipped included
P1	P6	30K 3000K	70CRI	T1S Type I short	HVOLT (347V-480V) ¹⁴	SPA Square pole mounting (Ø8 drilling)
P2	P7	40K 4000K	70CRI	T2M Type II medium	TZV (277V-480V) ¹⁵	RPA Round pole mounting (Ø8 drilling)
P3	P8	50K 5000K	70CRI	T3M Type III medium		SPAS Square pole mounting (Ø5 drilling) ¹⁶
P4	P9	(this section 80CRI only, extended lead times apply)	80CRI	T3LG Type III low glare ¹		SPAS Square pole mounting (Ø5 drilling) ¹⁶
P5	Rotated optics		80CRI	T4M Type IV medium		SPAS Square pole mounting (Ø5 drilling) ¹⁶
P10 ¹⁷	P12 ¹⁸	27K 2700K	80CRI	T4LG Type IV low glare ¹		SPAS Square pole mounting (Ø5 drilling) ¹⁶
P11 ¹⁹	P13 ¹⁸	30K 3000K	80CRI	TFTM Forward throw medium		SPAS Square pole mounting (Ø5 drilling) ¹⁶
		35K 3500K	80CRI			SPAS Square pole mounting (Ø5 drilling) ¹⁶
		40K 4000K	80CRI			SPAS Square pole mounting (Ø5 drilling) ¹⁶
		50K 5000K	80CRI			SPAS Square pole mounting (Ø5 drilling) ¹⁶

Control options	Other options	Finish (optional)
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40 mounting height, ambient sensor enabled at 26" (6.6 m) ²⁰ PIR High/Low, motion/ambient sensor, 8-40 mounting height, ambient sensor enabled at 26" (6.6 m) ²⁰ PER NEMA twist-lock receptacle only (controls ordered separately) ²¹ PERS Five-pin receptacle only (controls ordered separately) ²²	PER7 Seven-pin receptacle only (controls ordered separately) ²³ FAO Field adjustable output ^{24, 25} BL30 Bi-level switched dimming, 30% ^{26, 27} BL50 Bi-level switched dimming, 50% ^{26, 27} DMG 0-10V dimming wires pulled outside fixture for use with external control, ordered separately ²⁸ DS Dual switching ^{29, 30}	DDBX2 Dark Bronze DLBXL2 Black DNAXD Natural Aluminum DWXWD White DDBXT2 Textured dark bronze DLBXLX2 Textured black DNAXTD2 Textured natural aluminum DWXWDX2 Textured white
Shipped separately EGRS External Glass Shield (reversible, field install required, matches housing finish) B50B Bird Spikes (field install required)		



Site Lighting Photometric Plan Millington Crossing - Lot 2 Millington, MD

Designer
R. Renshaw
Date
11/14/2023
Scale
1" = 60'
Drawing No.
Summary
Draft 1



MILLINGTON, MARYLAND
MILLINGTON CROSSING

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MILLINGTON CROSSING

31, GRID - 1E PARCEL - 6-1 - LOT 1
MILLINGTON, MARYLAND



Licensee Name: LAWRENCE T. VALENZA
Discipline: Registered Architect
License Registration No.: 20135
Registration Expires: 10/30/25



10-18-23

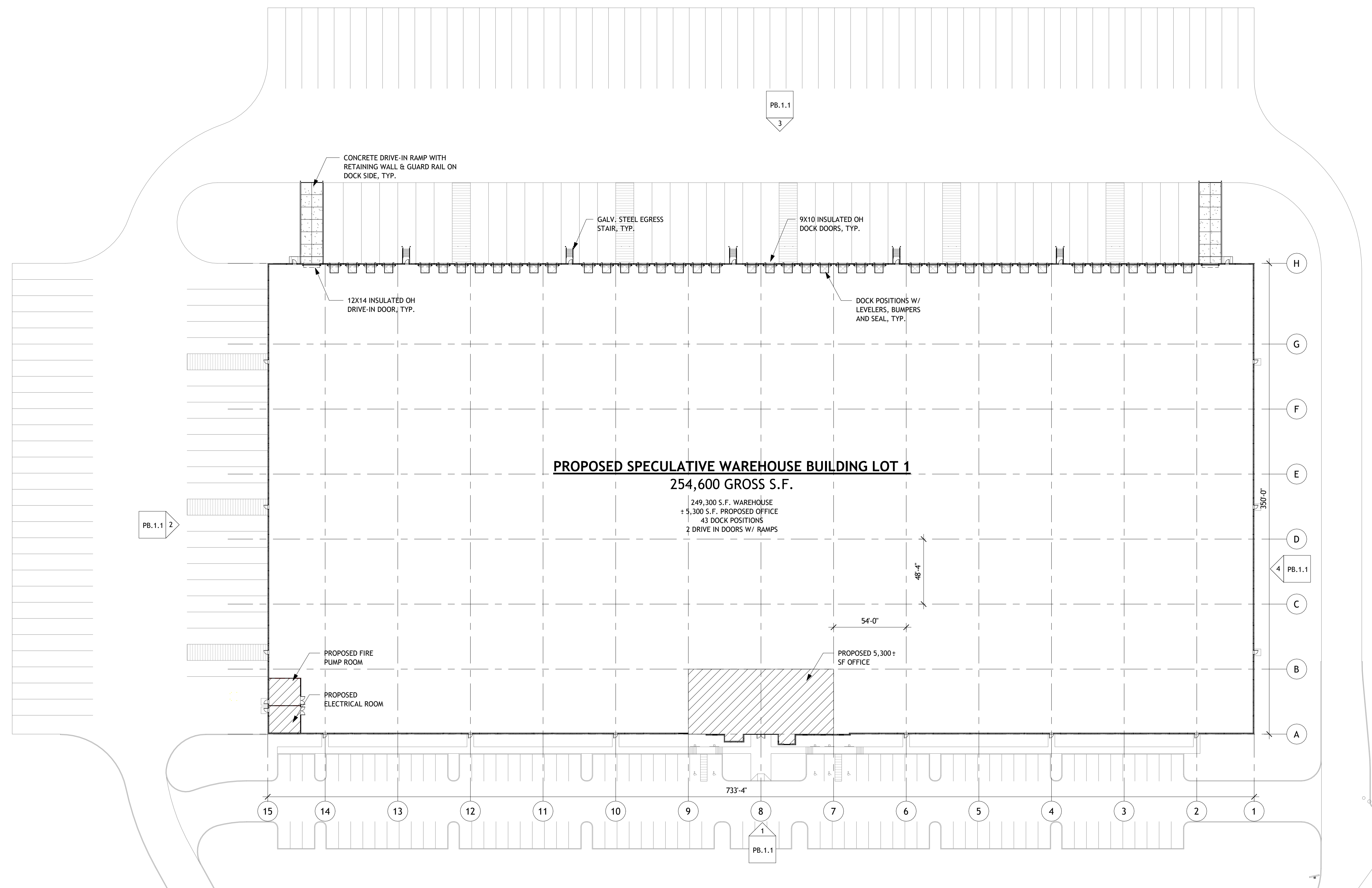
The Professional Architect's seal affixed to this sheet indicates that the named Architect has prepared or directed the preparation of the material shown only on this sheet. Other drawings and documents not exhibiting this seal shall not be considered prepared by or the responsibility of the undersigned.

REVISION:

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Job Number: 23004.10
Drawn By: MI
Checked By: JN/SN
Drawing Title:

FLOOR PLAN - LOT 1

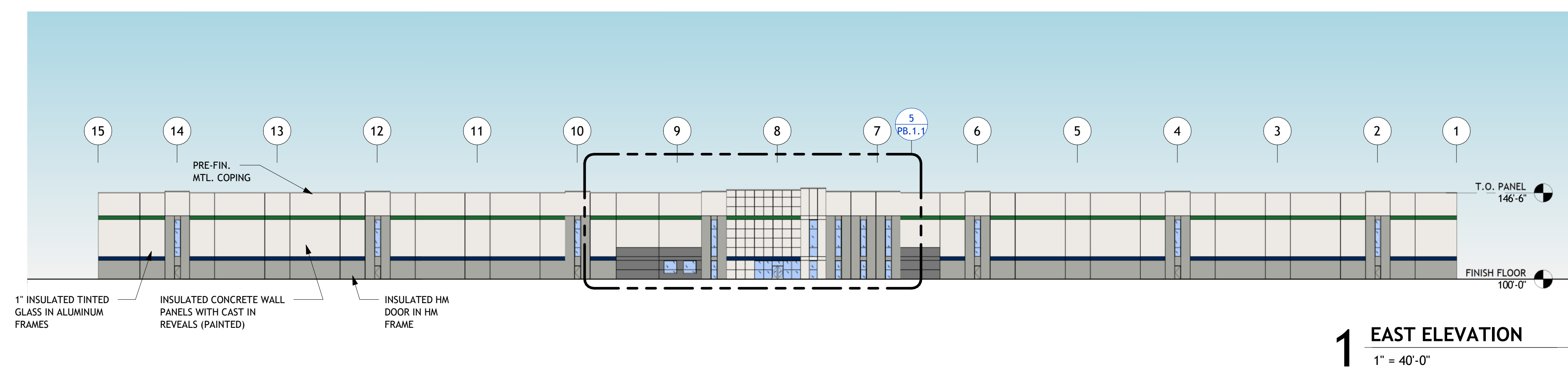
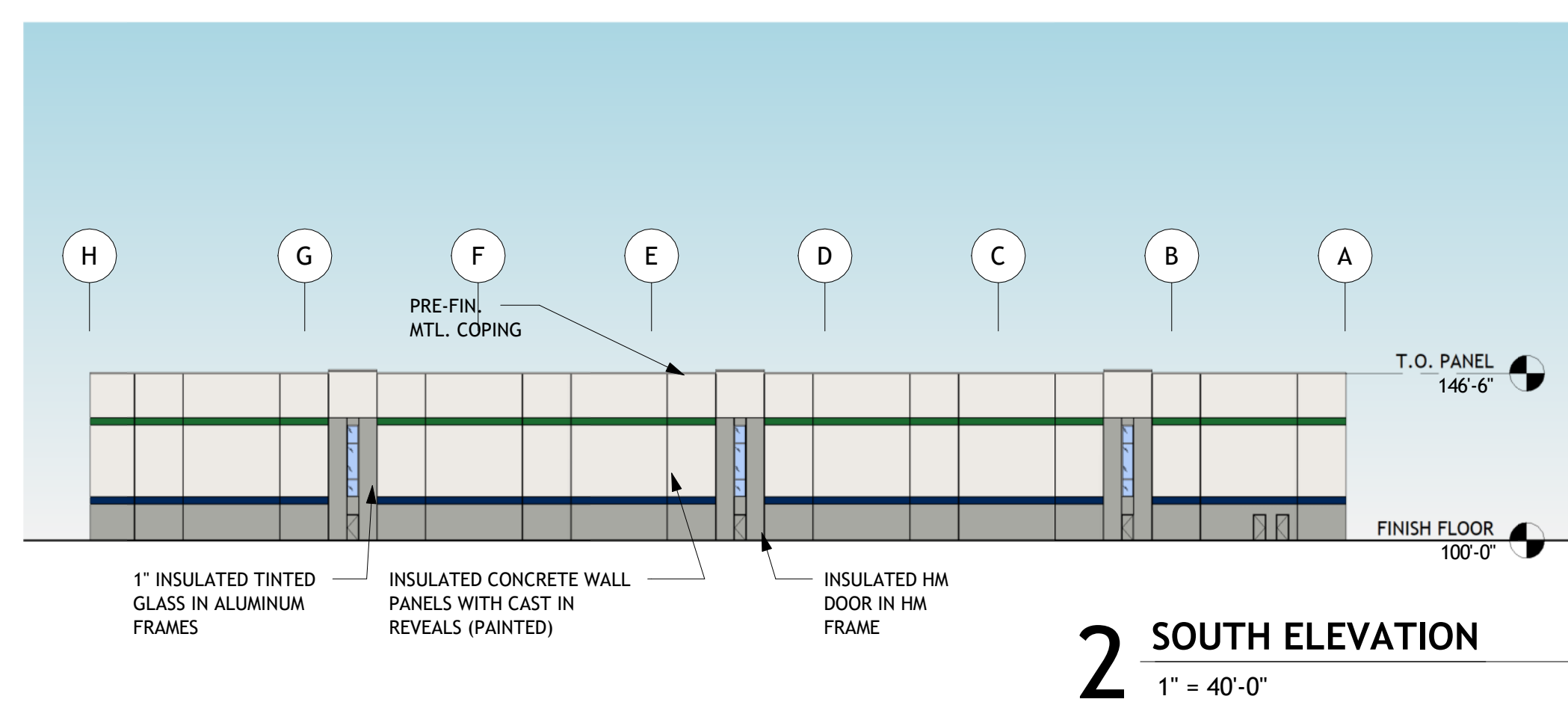
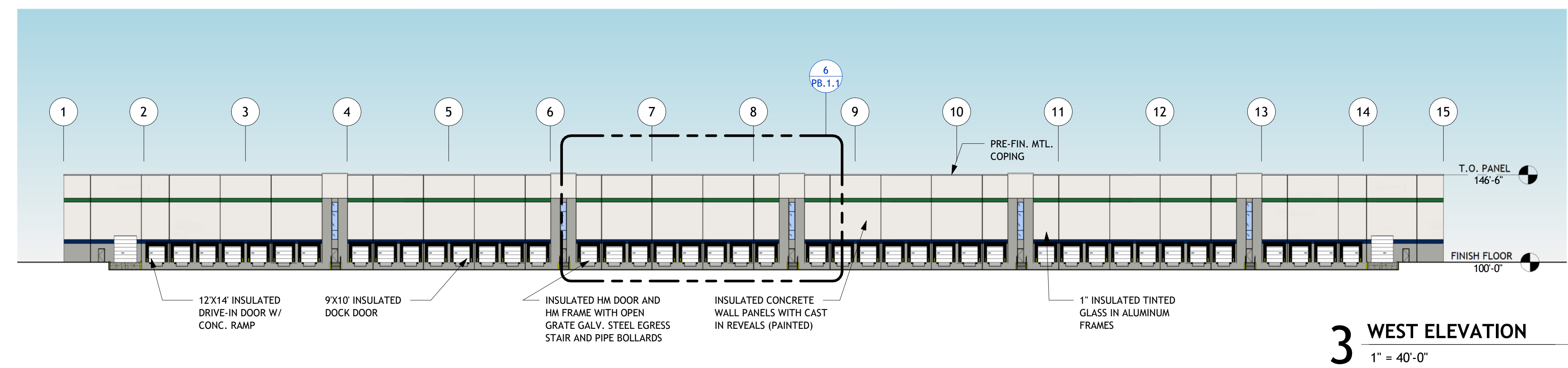
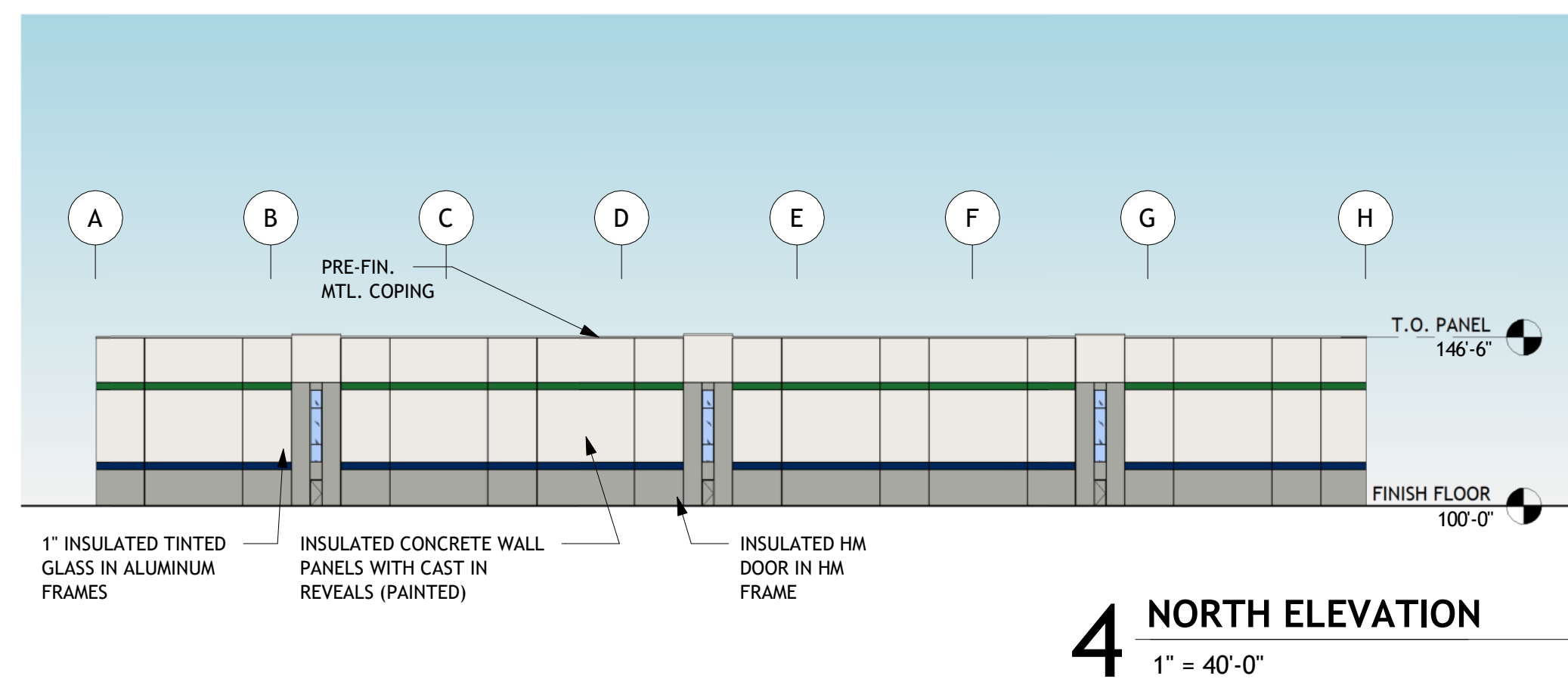
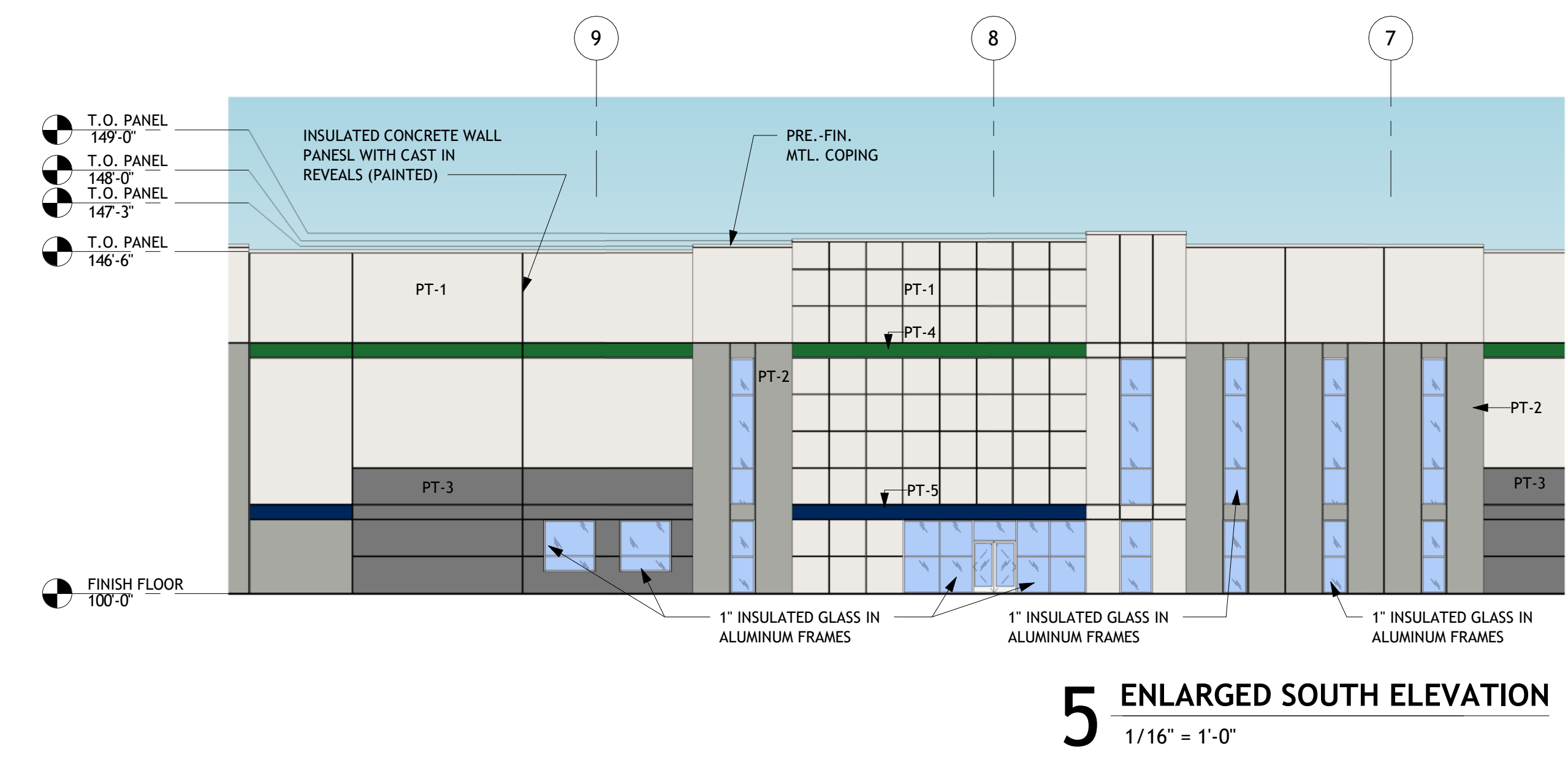
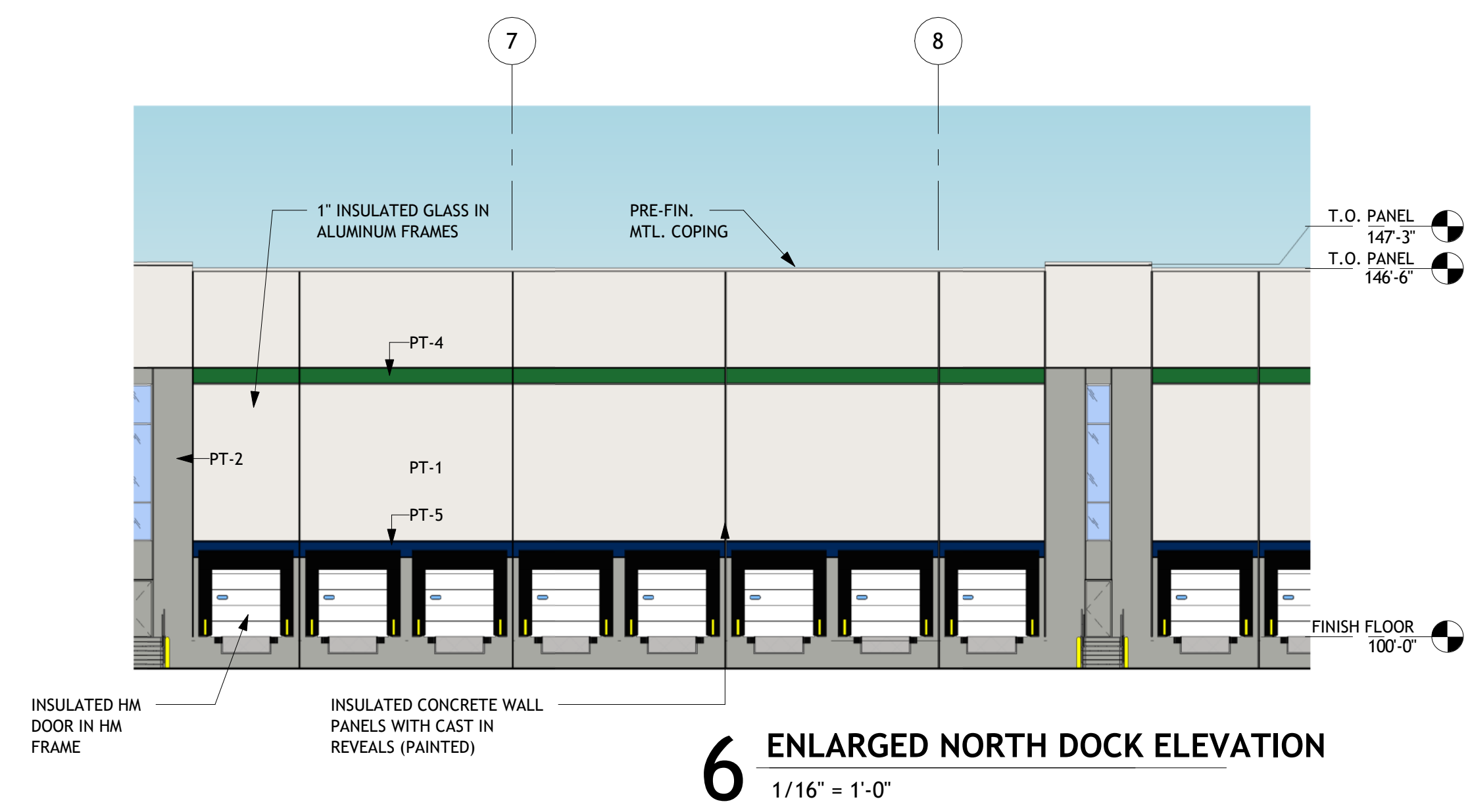
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1 FIRST FLOOR
1" = 40'-0"

EXTERIOR MATERIALS LEGEND:

PAINT COLORS:	COPING
PT-1 PAINTED CONCRETE PANEL LIGHT	PRE-FINISHED ALUMINUM TO MATCH ADJACENT WALL COLOR TYP. EXACT COLOR TO BE SELECTED BY ARCHITECT FROM MANUF. FULL RANGE OF COLORS
PT-2 PAINTED CONCRETE PANEL MEDIUM	GLAZING
PT-3 PAINTED CONCRETE PANEL DARK	THERMALLY BROKEN, CLEAR ANODIZED ALUMINUM FRAMES WITH TINTED, INSULATED GLASS.
PT-4 DARK GREEN	
PT-5 DARK BLUE	



MILLINGTON CROSSING

31, GRID - 1E PARCEL - 6-1 - LOT 2
MILLINGTON, MARYLAND



Licensee Name: LAWRENCE T. VALENZA
Discipline: Registered Architect
License Registration No.: 20135
Registration Expires: 10/30/25



10-18-23

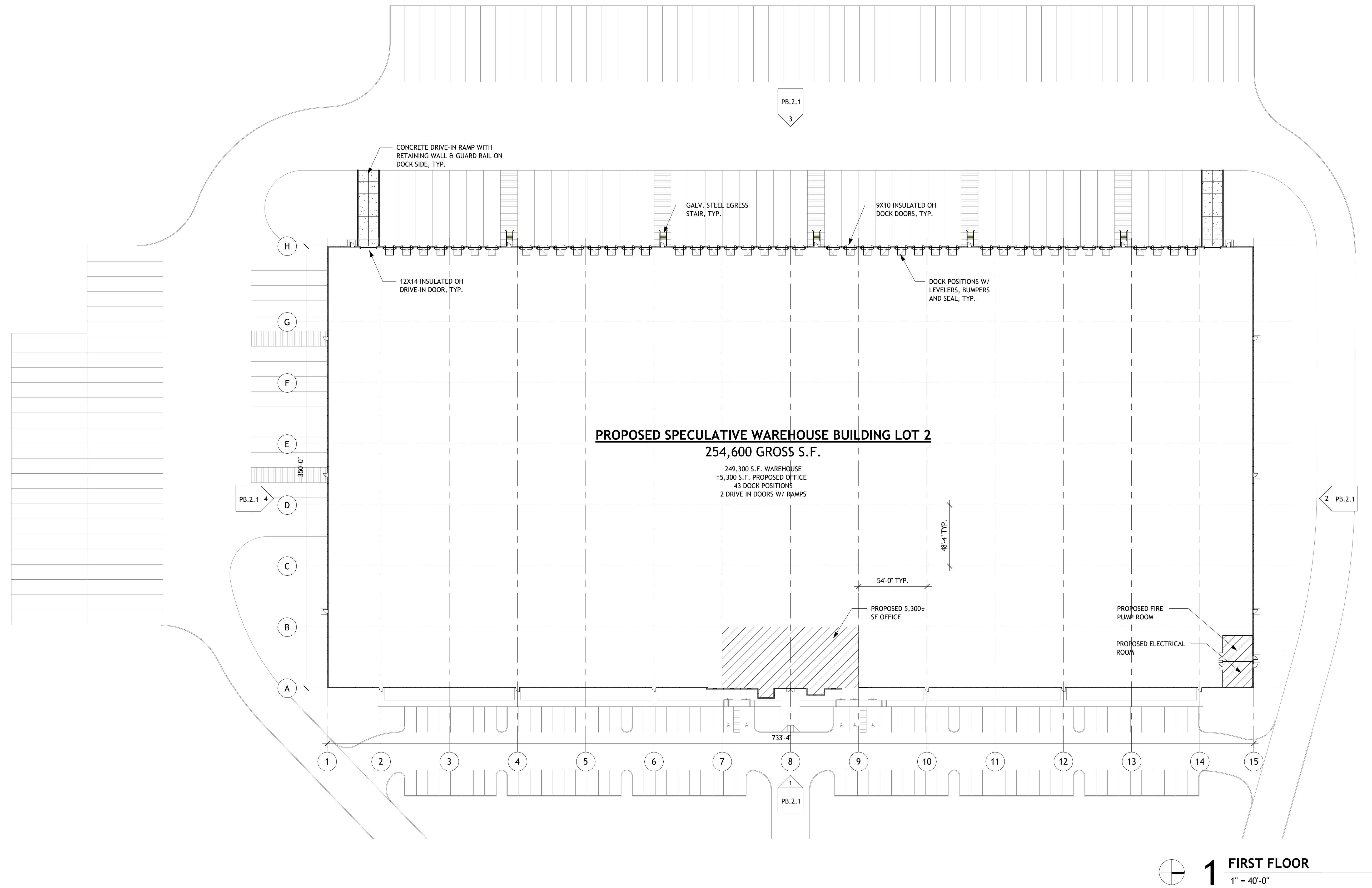
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REVISION:

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Job Number: 23004.20
Drawn By: MI
Checked By: JN/SN
Drawing Title:

FLOOR PLAN - LOT 2

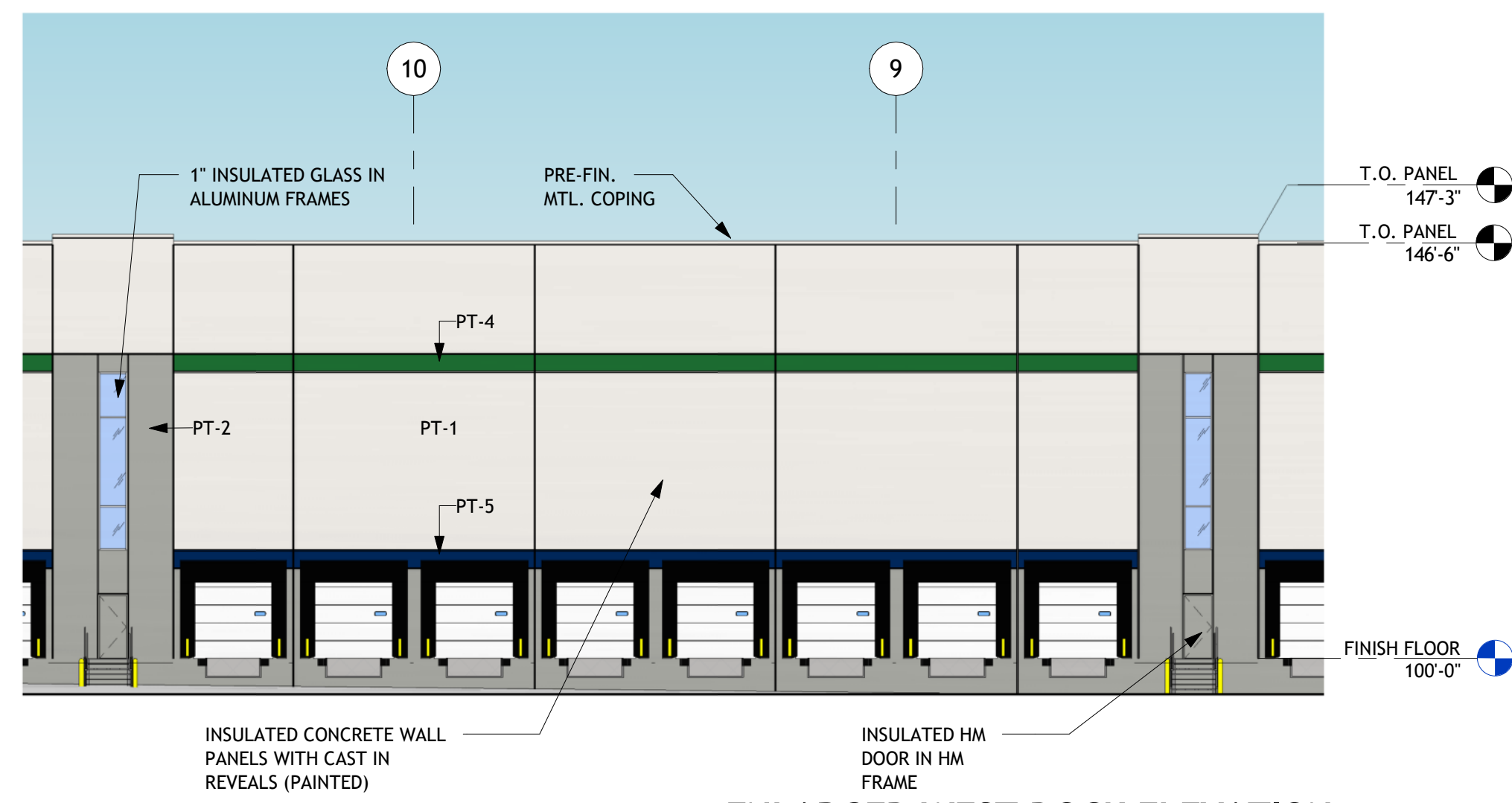
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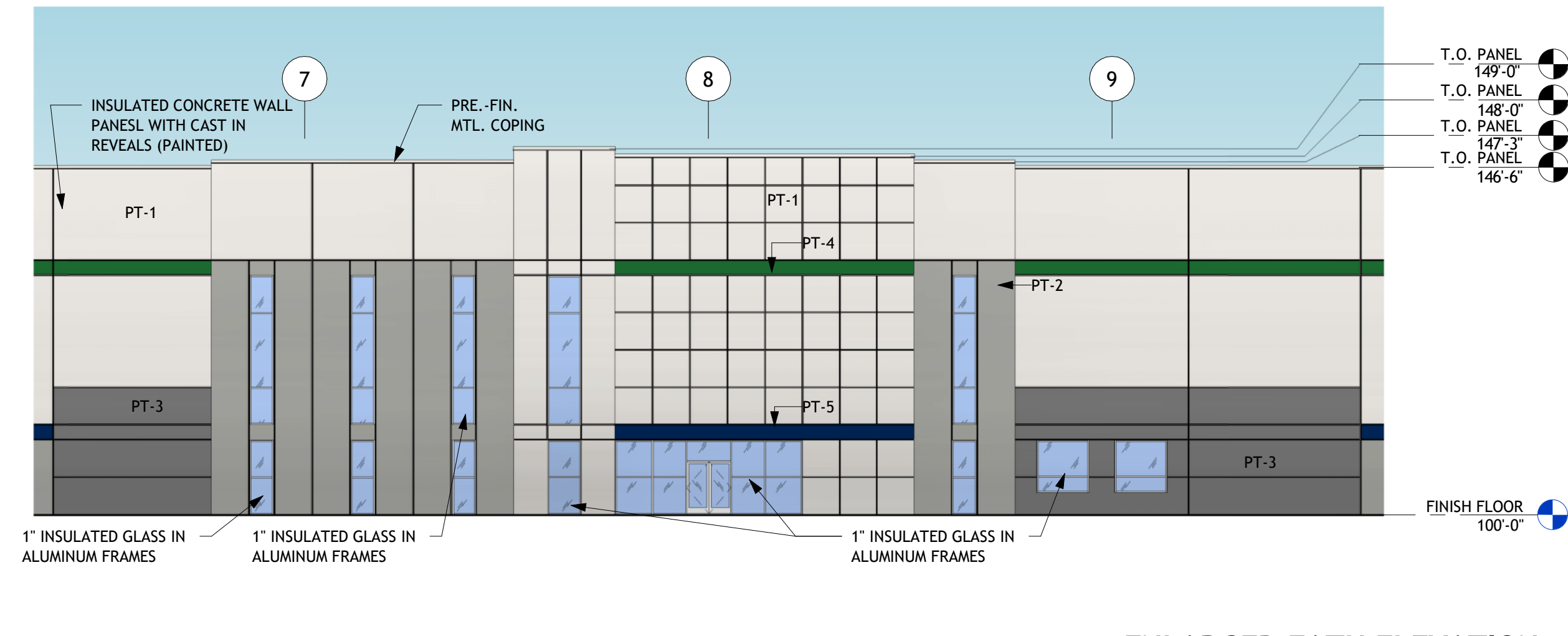
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1" = 40'-0"

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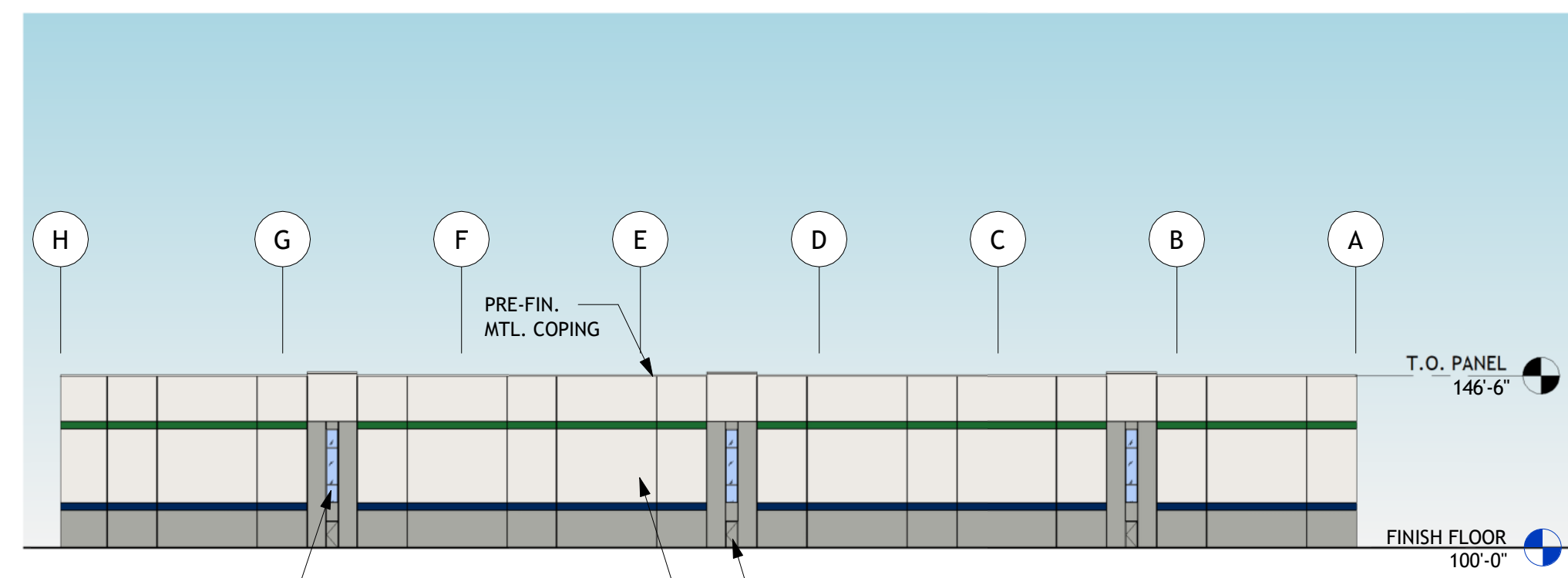
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	PT-2 PAINTED CONCRETE PANEL MEDIUM		GLAZING THERMALLY BROKEN, CLEAR ANODIZED ALUMINUM FRAMES WITH TINTED, INSULATED GLASS.
	PT-3 PAINTED CONCRETE PANEL DARK		
	PT-4 DARK GREEN		
	PT-5 DARK BLUE		



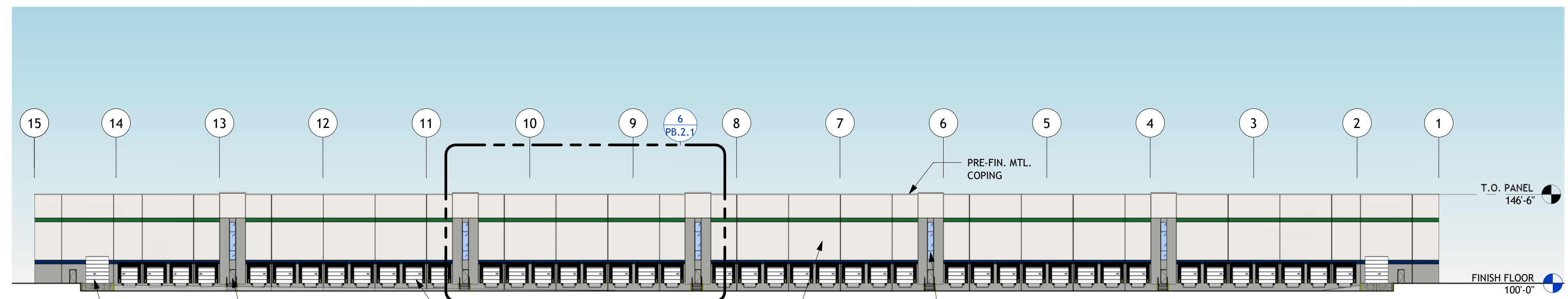
6 ENLARGED WEST DOCK ELEVATION
1/16" = 1'-0"



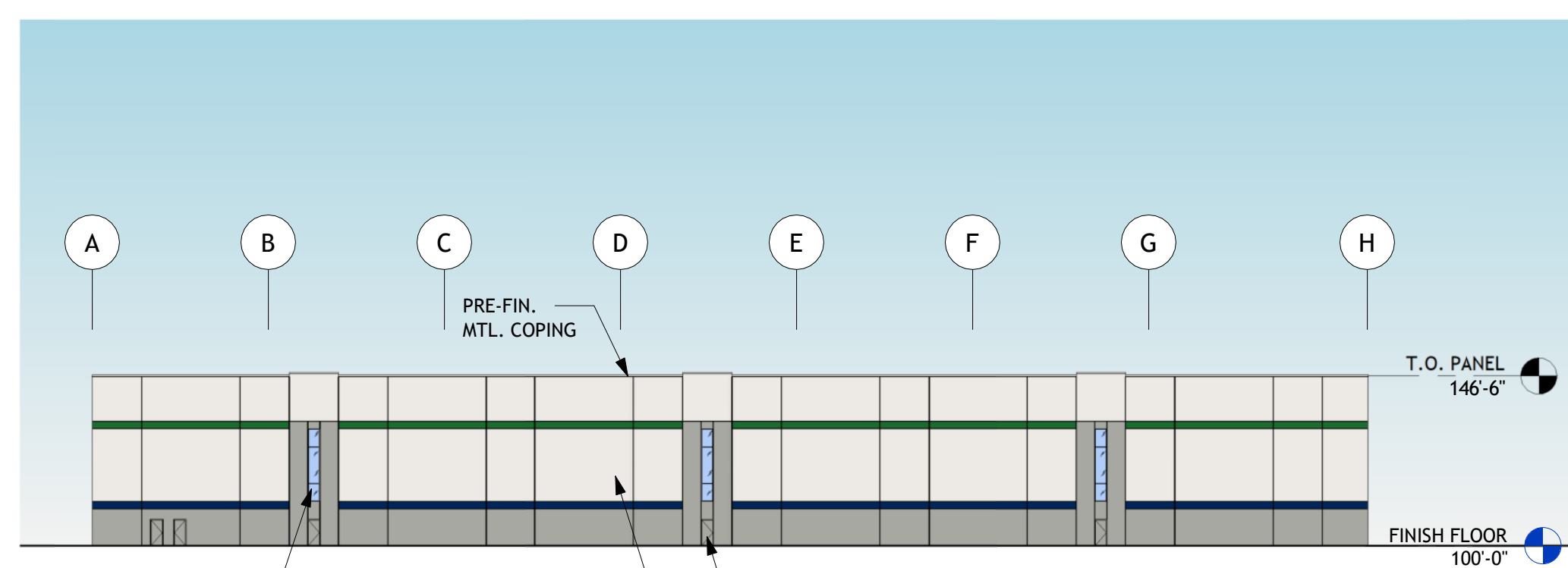
5 ENLARGED EATH ELEVATION
1/16" = 1'-0"



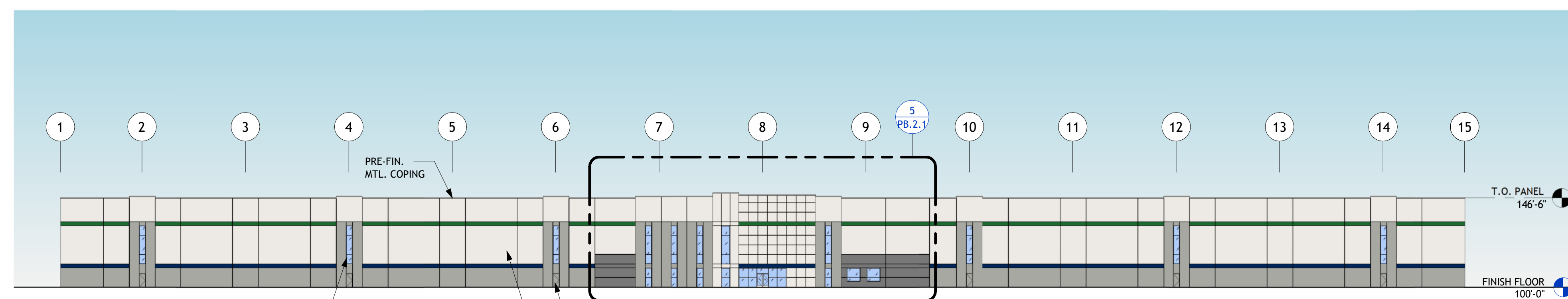
4 SOUTH ELEVATION
1" = 40'-0"



3 WEST ELEVATION
1" = 40'-0"



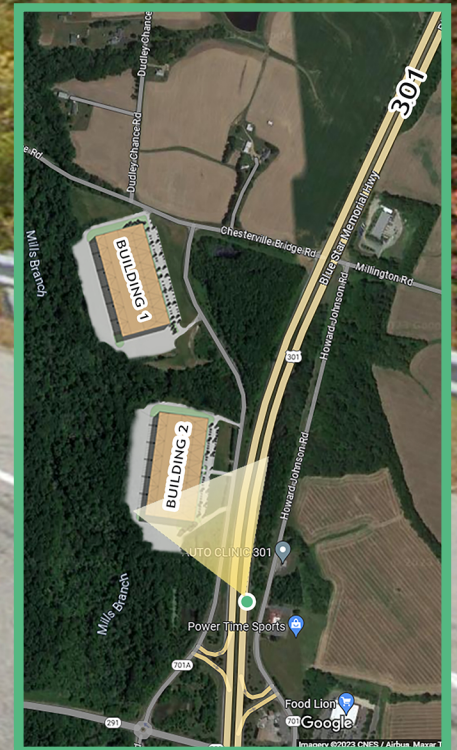
2 NORTH ELEVATION
1" = 40'-0"

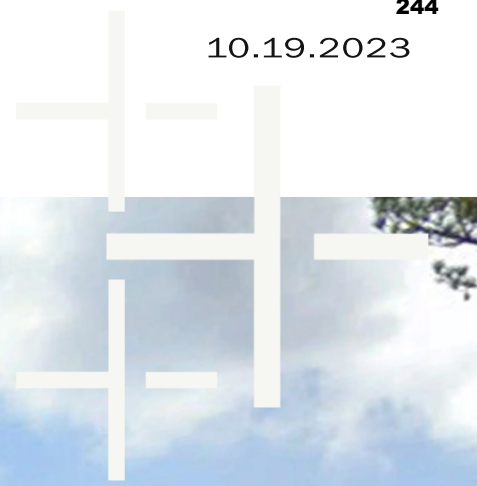


1 EAST ELEVATION
1" = 40'-0"



BUILDING 2

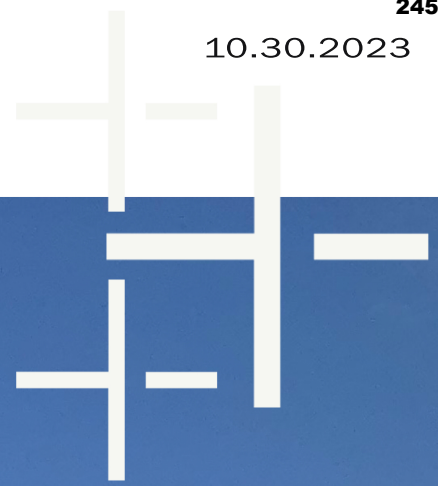




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MILLINGTON, MARYLAND
MILLINGTON CROSSING - SOUTHBOUND





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MILLINGTON, MARYLAND
MILLINGTON CROSSING - LOOKING SOUTH



PLANNING COMMISSION
FOR KENT COUNTY, MARYLAND

MILLINGTON CROSSING *
ASSOCIATES ONE, LLC –
MINOR SUBDIVISION * CASE NO. 22-68
MAP 31, PARCEL 6, PART 1
NEAR MILLINGTON *

EVERTON INDUSTRIAL, LOT 1 – *
MAJOR SITE PLAN (PRELIMINARY)
MAP 31, PARCL 6, PART 1 * CASE NO. 22-67
NEAR MILLINGTON *

EVERTON INDUSTRIAL, LOT 2 – *
MAJOR SITE PLAN (PRELIMINARY)
MAP 31, PARCEL 6, PART 1, LOT 1 * CASE NO. 23-28
NEAR MILLINGTON *

* * * * *

Legal Argument regarding Section 14.8 of the County’s Zoning Ordinance

Section 14.8 of the County’s Zoning Ordinance provides that “contiguous forest that connects the largest undeveloped or most vegetated tracts of land within and adjacent to the site” “shall be left in an undisturbed condition unless the applicant demonstrates, to the satisfaction of the Department of Planning and Zoning, that reasonable efforts have been made to protect [the contiguous forest] and the plan cannot be reasonably altered. ZO § 14.8(B)(3)(d)(ii).

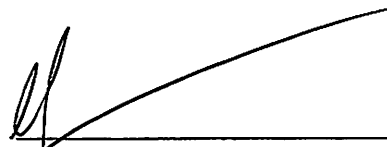
Here, the forest on the Subject Property is contiguous forest subject to the preservation requirements of Section 14.8(B)(3)(d)(ii). The Applicant proposes to remove 7.75 acres of forest on the Subject Property. *See* Forest Conservation Plat (FCP #023-03). Accordingly, the Applicant proposes to remove 7.75 acres of contiguous forest subject to the preservation requirements of Section 14.8(B)(3)(d)(ii).

Therefore, the Applicant has the burden of proving, and the Department of Planning and Zoning has the duty of finding, that the Applicant has taken “reasonable efforts...to protect [the contiguous forest] and the plan cannot be reasonably altered.” *See* ZO § 14.8(B)(3)(d)(ii).

However, nowhere in the Applicant’s application materials does the Applicant address the efforts it has taken to protect the contiguous forest, nor does the Applicant address why the plan cannot be reasonably altered to avoid impacts to the contiguous forest. Similarly, at no point during the TAC review of the application did Planning Staff raise or address this issue.

As a result, the only appropriate action is for the application to be remanded to TAC so that the Applicant and the Department of Planning and Zoning can address this issue as required by the zoning ordinance.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'G. Macy Nelson', is written over a horizontal line. The signature is stylized and cursive.

G. Macy Nelson

AIS No. 8112010268

Law Office of G. Macy Nelson, LLC

600 Washington Avenue, Suite 202

Towson, Maryland 21204

(410) 296-8166

gmacynelson@gmacynelson.com

MEMORANDUM

TO: Macy Nelson

FROM: Lawrence Green, PE, PTOE

DATE: May 30, 2024

SUBJECT: Millington Crossing - Trip Generation/Site Access Assessment

The purpose of this memorandum is to examine the trip generation rates utilized in the Millington Crossing Warehouse development Traffic Impact Study report prepared by Traffic Concepts, Inc. dated December 2023, and to assess the proposed site access system for the development.

SITE TRIP GENERATION

The proposed development is a 513,850 square foot Warehouse development with 490 employees (separated into 2 parcels – see attached site plans) in Kent County, Maryland. Traffic Concepts chose Land Use 150 – Warehousing trip generation rates as contained in the 11th Edition of the Institute of Transportation Engineer’s (ITE) Trip Generation manual to generate trips for this development. The description of Land Use 150 in the Trip Generation Manual is as follows:

- Land Use 150 Warehousing - A warehouse is primarily devoted to the storage of materials, but it may also include office and maintenance areas.

As noted in the description of this land use, the specific uses of the warehouse can include storage of materials, office uses, and/or maintenance uses. ITE allows the calculation of the anticipated trips generated to be determined from a square footage basis or an employee basis. Traffic Concepts chose to use the square footage basis even though the actual uses within the warehouse could vary significantly, and the number of employees for the development was a known quantity. The submitted site plan for this development anticipates a total of 490 employees (see attached site plans showing employee numbers) that would be a more accurate parameter for the trip generation of the development since the number of employees is main trip generating characteristic for Warehouse developments.

Shown below is a table of the trip generation calculations using both the building square footage and employees for Land Use 150 Warehousing development in the 11th Edition of the ITE Trip Generation Manual.

513,850 SQUARE FOOT WAREHOUSE DEVELOPMENT WITH 490 EMPLOYEES

Land Use Assumed	Daily Trips	AM Peak Hour	PM Peak Hour
Warehousing (Land Use 150) – Square Footage Basis	850	85	88
Warehousing (Land Use 150) – Employee Basis	2475	299	323

As noted above, the calculated trip generation for Millington Crossing varies greatly depending upon the input variable utilized in the calculation. The employee-based trip generation calculation will generate 1,625 more Daily Trips (a 191% increase), 214 more AM Peak Hour Trips (a 252% increase), and 235 more PM Peak Hour Trips (a 267% increase) than the trip generation assumption based upon the square footage of the building. Since the number of anticipated employees to work at Millington Crossing is a more representative trip generating characteristic, the employee-based trip generation characteristic should have been used in the calculation. As noted in the description of Land Use 150 Warehousing, the uses varied greatly in the development of the trip generation rates based upon building square footage.

SITE ACCESS ASSESSMENT

Lot 1 Site Plan proposes one (1) full movement driveway on Edge Road and one (1) full movement driveway on Chesterville Bridge Road. Based upon the American Association of State Highway and Transportation Officials (AASHTO) A Policy on Geometric Design of Highways and Streets, 2018 7th Edition (AASHTO Green Book), indicates that junctions of minor roads (such as driveways) should intersect with more important roadways with less than a 15-degree skew (see attached reference). In addition, *The Traffic Engineering Handbook* states that: "Crossing roadways should intersect at 90 degrees if possible, and not less than 75 degrees." It further states that: "Intersections with severe skew angles (e.g., 60 degrees or less) often experience operational or safety problems. The proposed site driveway for Lot 1 on Chesterville Bridge Road intersects at an approximate 45-degree skew and should be removed for safety and operational reasons.

The Maryland Department of Transportation State Highway Administration (SHA) examined the proposed development and the site access system. Lot 2 includes 3 driveways on Edge Road (MD 701A). Due to a horizontal curve on Edge Road, SHA has determined that the northern driveway serving Lot 2 does not provide adequate sight distance for vehicles to safely egress the driveway to Edge Road. Therefore, SHA recommended that this driveway be redesigned as a right-in only driveway. However, the submitted site plan for Lot 2 does not show this restricted operation.

The ramps to/from northbound US 301 and the ramps to/from southbound US 301 that are located north of the MD 291 bridge over US 301 provide the highest capacity access for the Millington Crossing site and would be least impactful to the more local roadway network. Therefore, measures to encourage the usage of these ramps to/from US 301 should be encouraged.

CONCLUSIONS

A review of the December 2023 Traffic Impact Study prepared for the proposed Millington Crossing Warehouse development revealed that the trip generation for the site has likely been underestimated by a factor of 3-4 times than was indicated in the traffic report. A re-evaluation of the traffic impact of this development should be done.

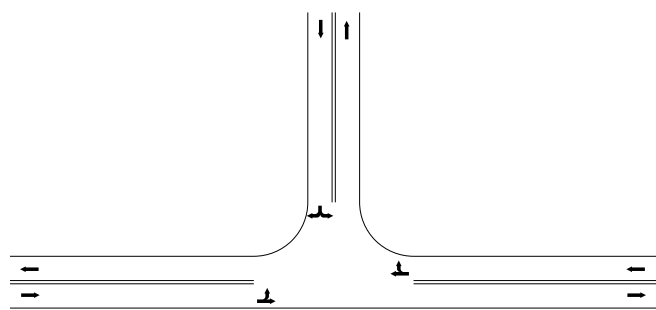
The proposed site access on Chesterville Bridge Road intersects at a 45-degree angle and violates the guidelines stipulated in the AASHTO Green Book and should be removed. All access for Lot 1 should be provided on Edge Road (MD 701A). The northern site access driveway for Lot 2 should be redesigned as

a right-in only to address sight distance limitations as identified by SHA. The best access for the site is provided by the ramping system to/from US 301 located north of the MD 291 bridge. Ways to encourage the usage of the access to/from US 301 should be sought. One way to encourage the usage of this ramping system to/from US 301 would be the removal of the site access driveway on Chesterville Bridge Road that would provide all access for both lots along Edge Road.

9.3.1 Three-Leg Intersections

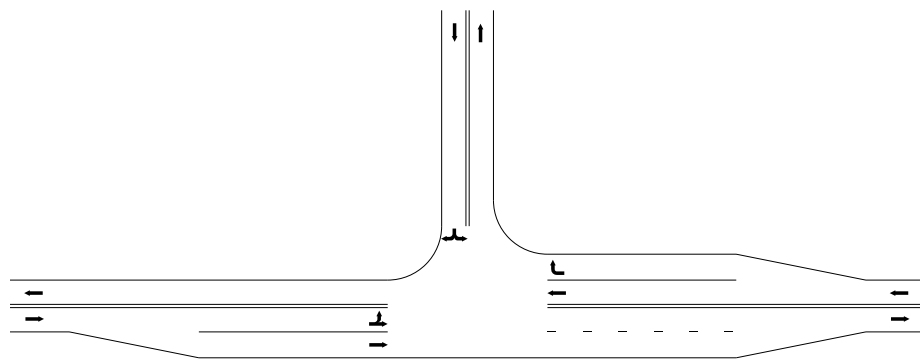
9.3.1.1 Basic Types of Intersections

Basic forms of three-leg or T intersections are illustrated in Figures 9-5 and 9-6. The most common type of three-leg conventional intersection, as shown in Figure 9-5A, has the normal pavement width of both roadways maintained except for the paved corner radii or where widening is needed to accommodate the selected design vehicle. This type of unchannelized intersection is generally suitable for junctions of minor or local roads and junctions of minor roads with more important roadways where the angle of intersection is not generally more than 15 degrees from perpendicular (i.e., from approximately 75 to 105 degrees). In rural areas, this intersection type is usually used in conjunction with two-lane roadways carrying light traffic. In suburban or urban areas, it may be satisfactory for higher volumes and for multilane roads. Where speeds or turning movements, or both, are high, an additional surface width or flaring may be provided for maneuverability, as shown in Figure 9-5B and 9-5C, but such provision should consider the effects of widening on pedestrian crossing distances.



Single Lane Approaches

– A –



Right-Turn Lane and Bypass Lane

– B –

Figure 9-5. Three-Leg Intersections

45-Degree Skew Intersection that Should Be Removed for Safety & Operational Reasons And To Encourage Desirable US 301 Access

Least Desirable Access To/From US 301

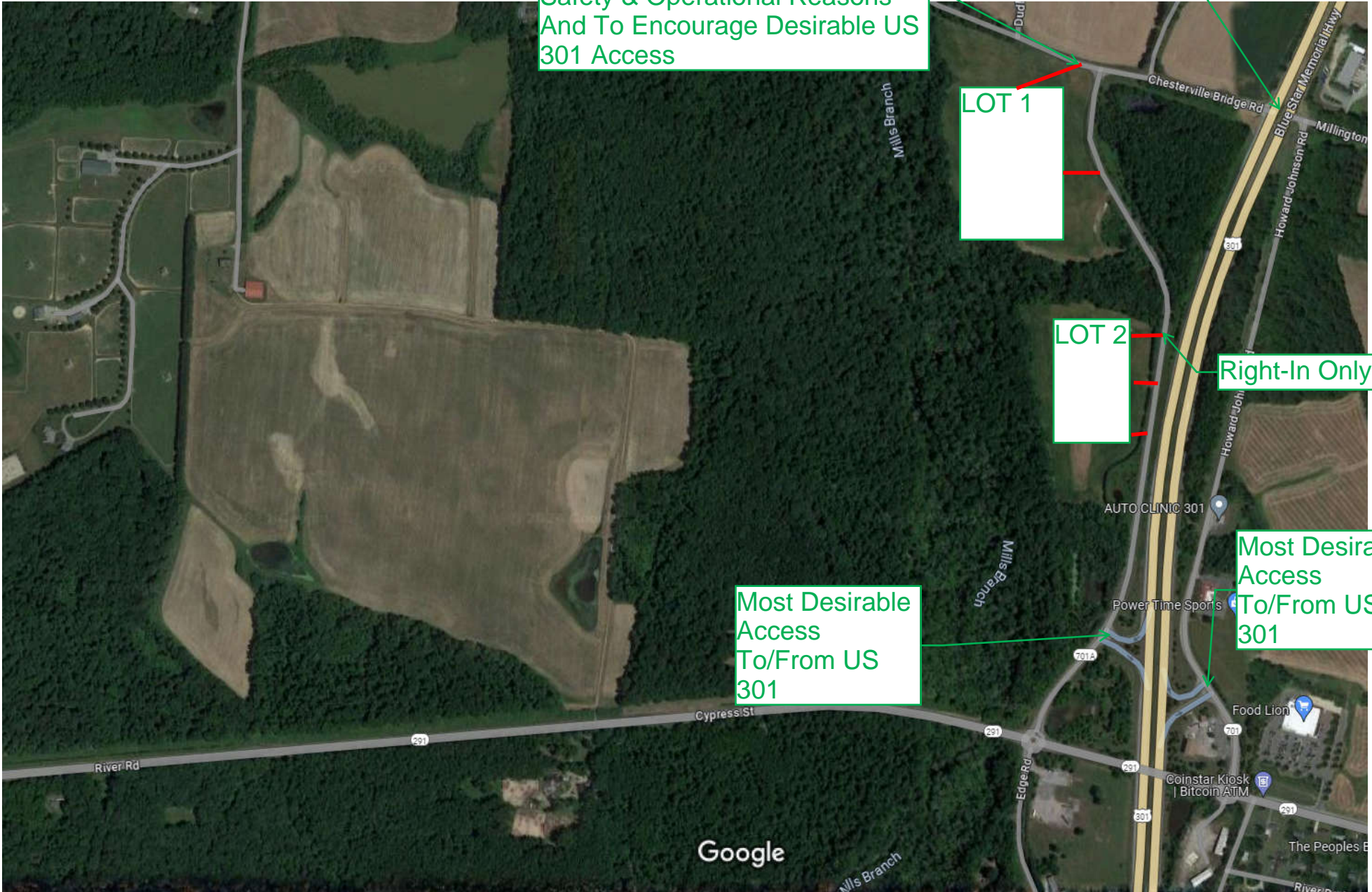
LOT 1

LOT 2

Right-In Only

Most Desirable Access To/From US 301

Most Desirable Access To/From US 301



PLANNING COMMISSION
FOR KENT COUNTY, MARYLAND

MILLINGTON CROSSING *
ASSOCIATES ONE, LLC – *
MINOR SUBDIVISION * CASE NO. 22-68
MAP 31, PARCEL 6, PART 1 *
NEAR MILLINGTON *

EVERTON INDUSTRIAL, LOT 1 – *
MAJOR SITE PLAN (PRELIMINARY) *
MAP 31, PARCL 6, PART 1 * CASE NO. 22-67
NEAR MILLINGTON *

EVERTON INDUSTRIAL, LOT 2 – *
MAJOR SITE PLAN (PRELIMINARY) *
MAP 31, PARCEL 6, PART 1, LOT 1 * CASE NO. 23-28
NEAR MILLINGTON *

* * * * *

RECUSAL MEMORANDUM

We represent Kent Conservation and Preservation Alliance (“KCPA”) and certain citizens. We are submitting several memoranda in accordance with the Planning Commission Bylaws, Section 7 – Rules of Procedure, which states in relevant part that “[i]f any Person wishes to bring to the Board’s attention complex data, reports, or arguments, that Person should submit the material in writing one week before the hearing” This memorandum concerns a matter of what we view as mandatory recusal under Title 18,

Chapter 18 of the Maryland Rules for Judges and Judicial Appointees. We first lay out applicable statutory and case law and then discuss that as it applies to a factual circumstance regarding a member of the Planning Commission, Paula Reeder.

Rule 18-102.11, “Disqualification,” states that a judge shall disqualify themselves in proceedings where their impartiality “might reasonably be questioned.” There are several enumerated circumstances where recusal is required, but for the purposes of this controversy, we cite Subsections (a)(1) and (a)(4). Subsection (a)(1) states that a judge shall recuse themselves where they have “a personal bias or prejudice concerning a party or a party's attorney, or personal knowledge of facts that are in dispute in the proceeding,” and subsection (a)(4) states that the judge shall recuse themselves where “the judge, while a judge or a judicial candidate, has made a public statement, other than in a court proceeding, judicial decision, or opinion, that commits or appears to commit the judge to reach a particular result or rule in a particular way in the proceeding or controversy.” The case of *Regan v. State Bd. of Chiropractic Exam'rs*, 355 Md. 397 (1999) establishes that these rules also bind all quasi-judicial administrative bodies, because “[t]he doctrine that every person is entitled to a fair and impartial hearing applies to an administrative agency exercising judicial or quasi-judicial functions, and is specifically applicable to issues of disqualification” *See id.* at 408; *see also Kenwood Gardens Condominiums, Inc. v. Whalen Properties, LLC*, 449 Md. 313, 339 n.9 (2016). Likewise, the Supreme Court of Maryland has stated that “[p]rocedural due process, guaranteed to persons in this State by Article 24 of the Maryland Declaration of Rights, requires that administrative agencies

performing adjudicatory or quasi-judicial functions observe the basic principles of fairness as to parties appearing before them.” *Maryland State Police v. Zeigler*, 330 Md. 540, 559 (1993). While many other cases stand for the same principle, in summary, if there is an appearance of impartiality that would trigger recusal, a quasi-judicial arbiter should preemptively recuse themselves but also shall recuse themselves upon motion.

The development contemplated at the Subject Property is longstanding and contentious. It is uncontroversial to state that there are people opposed to this development such as our clients, as well as people who are supportive of it. Such opinions are cherished and welcomed in good governance, but not by factfinders, who are expected to remain neutral and objective in their determinations. Among our concerns to be presented in opposition to this case is the concern of truck traffic impacts on the 291/301 overpass bridge as it relates to both motorists and cyclists, particularly with regard to cyclist safety along the bridge. To this end, on December 6, 2022, one of our named clients Janet Christensen-Lewis, the chair of the KCPA, wrote a letter to the editor of the Chestertown Spy, providing her lay argument about cyclist vulnerability along the bridge and how it may be impacted by the then-nascent development at the Subject Property.

We stress at this moment that it is fine to disagree with this analysis, and that several people did disagree and made public comments to that effect. But questions of recusal are analyzed under objective “reasonable person” standards, and the comment made by Paula Reeder subsequent to and directly addressed to this letter to the editor demonstrated not only an unalterably closed mind to the mere argument about bicycle access at the bridge,

but personal animus against the entire KCPA. We have attached the letter and this response as Exhibit A to this memorandum, and quote it in excerpts here that she believed Mrs. Christensen-Lewis's comments "couldn't be further from the truth," that "[t]his is just more baseless, anti-any development harem-scarem from KCPA," and that it was "enough already!" At this point in time, Paula Reeder had been appointed to the Planning Commission and was therefore actively sitting as a quasi-judicial member of that body. Thus, not only did she demonstrate clear and obvious "personal bias or prejudice" against our clients and their argument regarding at least this one potential impact of the Subject Property development, but she demonstrated a broader prejudice against the entire *operational procedure* of the KCPA, and made these public comments while "as a judge" outside of a court proceeding "that commit[ted] or appear[ed] to commit the judge to reach a particular result or rule in a particular way in the proceeding or controversy."

It is possible that Paula Reeder has had a change of heart since the time of this post and is committed to a more objective analysis of cases going forward. Nevertheless, in accordance with Maryland case law, "a party must file a timely motion in order to initiate the recusal procedure." *Miller v. Kirkpatrick*, 377 Md. 335, 358 (2003). "A timely motion ordinarily is not one that represents 'the possible withholding of a recusal motion as a weapon to use only in the event of some unfavorable ruling.' Consequently, the motion generally should be filed 'as soon as the basis for it becomes known and relevant.'" *Id.* (quoting *Surratt v. Prince George's County*, 320 Md. 439, 468–69 (1990)). Therefore, and also in accordance with the Planning Commission Bylaws, we are not given the lenience

of waiting to file a motion of recusal so as to take Ms. Reeder's proverbial pulse and see if she will act differently in the forthcoming Planning Commission Bylaws. We are obliged to file this motion for recusal preemptively based on prior comments made by Ms. Reeder as the administrative equivalent of a judge that foreclose her from further participation in this case. Such recusal is non-discretionary under Rule 18-102, as it states that a judge *shall* disqualify themselves in any of the enumerated circumstances such as having personal bias or making public comment, while a judge, with regard to a particular controversy. *See generally* MD. RULES JUDGES 18-102.11, *et seq.*

Consequently, we expect Ms. Reeder to recuse herself from any further proceedings related to the Subject Property, so as to protect our clients' procedural due process rights and ensure an objective hearing process regarding the submitted site plan and associated documents. As stated in our opening paragraph, we will submit other distinct concerns via separate memoranda for organizational purposes.

Respectfully submitted,



G. Macy Nelson

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Towson, Maryland 21204

(410) 296-8166

gmacynelson@gmacynelson.com

EXHIBIT A

 MENU




Kristen Owen, CFP® and Marty Knight, CFP®:
Your *truly local* team for personalized financial planning.

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8 Letters to Editor

Letter to Editor: Cycling, Safety and Development

December 6, 2022 by Letter to Editor

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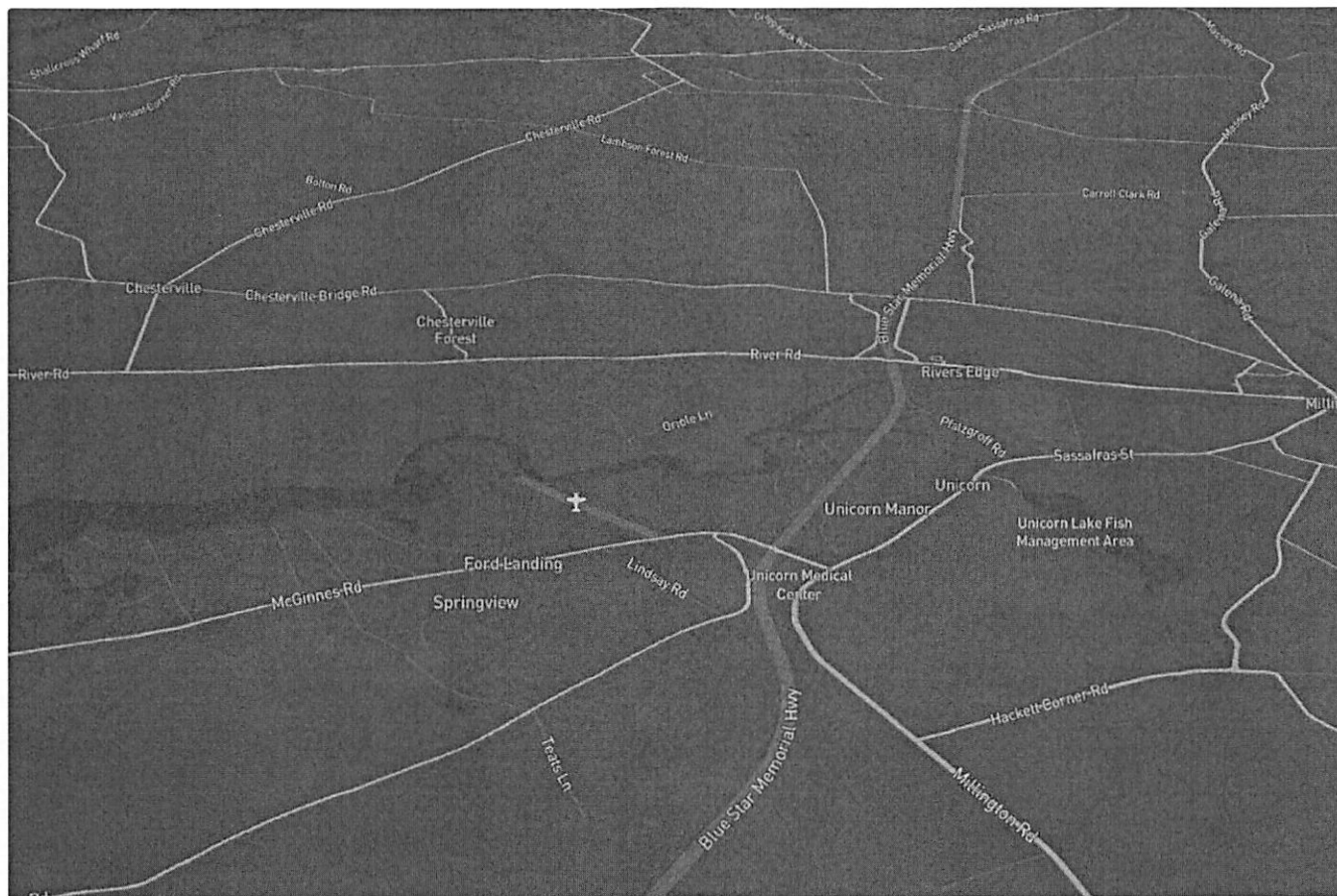
In a recent hearing before the Kent County Planning Commission (November 3, 2022) a representative for Everton, INC, a New Jersey based corporation, presented a plan for a distribution warehouse on the corner of Edge and Chesterville Bridge Road.

Let us set aside for the moment the cost to the environment, water, and air quality that over 1 million-sf of impervious roof and asphalt surface, 132 truck bays, and the 400 parking spaces proposed for the new distribution warehouses will create, instead focusing on another problem related to the mammoth sized project; the impact on the safety of cyclists.

The access and egress for the proposed warehouses will involve the 291/301 overpass, the two roundabouts, Howard Johnson, Edge, and Chesterville Bridge Roads. The Kent County overpass was built in 1989 before Maryland's State Legislature mandated that the safety of bike and pedestrian modes of transportation be incorporated in the Maryland Transportation Plan. Current Maryland regulations for shoulder widths on overpasses calls for 4-5-ft dependent on speed and percent of truck traffic. The 301 overpass on 291 is already a roadway that cyclist feel vulnerable on, documented in the Maryland Bicycle and Pedestrian Master Plan 2019 .

≡ MENU

on the current traffic flow, with shoulder widths which are narrow, varying between 0- and 29-inches of uneven, cracked, and crumbling asphalt edges. The safety of cyclist which is already problematic will, as vehicular traffic increases and skews towards tractor-trailers, deteriorate further unless mitigation is required. The 291 overpass and the 290 underpass are the only alternatives for cyclists to avoid tangling directly with 301 traffic on at grade crossings in Kent County all of which are rated F by the state.



Strava Global Heat Map

Kent County has a large and growing number of cyclist which the State has an interest in promoting. The county's rural roads attract cycling clubs, races, events, and tours, as bicycle tourism is becoming a fast-growing economic factor. Cycling data compiled and published in the form of a heat map, based on users from the widely used cycling APP Strava, gives a vivid picture of where bicycles travel. The 291 overpass, the roundabouts and Howard Johnson Rd show up as the most heavily traversed roads in the county, with Edge and Chesterville Bridge Rd used to a lesser degree.

≡ MENU

Ordinance (LUO). However, the LUO gives no one permission “by right” to jeopardize the life of cyclists and pedestrians. Kent County cycling residents and tourists should not face deteriorating road conditions caused by development.

State Highway, the Kent County Planning Commission and Commissioners must seriously consider the safety everyone including vulnerable cyclist and pedestrians by ensuring their protection from injury or death on the county and state roads through proper mitigations and upgrades before development is approved.

For concerns about the road conditions for cyclists in Kent County contact Nate Evans, Active Transportation Planner, MDOT, nevans1mdot.maryland.gov

For information/concerns about this project contact Mr. William Mackey, Director of Planning, Zoning and Housing wmackey@kentgov.org

Janet Christensen-Lewis
Millington

The Spy Newspapers may periodically employ the assistance of artificial intelligence (AI) to enhance the clarity and accuracy of our content.

Filed Under: 8 Letters to Editor

[← Silent Auction Fundraiser at Tish Gallery](#)

[Temporary Fix at Best by Howard Freedlander →](#)

Letters to Editor

Michael Bitting says

December 15, 2022 at 9:57 AM

This is absurd. Our local NIMBY-in-Chief ceaselessly objecting to any attempt to improve the economic conditions in Kent County. The utter pretentiousness of Janet Christensen-Lewis always amazes me. I would love to know what qualifies her to speak against any attempt to inch into the 21st century. From renewable energy expert, zoning expert, economist, and now master cyclist, she wears many hats. I think she might be better off

≡ MENU**Deirdre LaMotte says**

December 16, 2022 at 6:50 PM

Curious. I see nothing wrong with NIMBYism, why would residents not be able to voice a concern? I know nothing about a mega warehouse but she is correct. Why use prime farmland and pave over it like beautiful Middletown? I jest about "beautiful", but that town had arguably the best soil of all.

And you think hourly wage at a warehouse is worth destroying land??

Paula Reeder says

December 18, 2022 at 1:19 PM

Anyone who drives on Chesterville Bridge Road knows that the road is in poor shape, has no viable side bars for bicyclists and is one of the least traveled roads in Kent County. Mrs. Christensen's contention that that road and the bypass are main thoroughfares for bicyclists is pure bunk. Further, her claim that bicyclists utilization of the route that would serve traffic going to and from the proposed warehouse facilities represents a major economic contribution to Kent County that would be threatened by completion of the warehouse installation couldn't be further from the truth. The proposed warehouse location is smack in the middle of one of the few areas in Kent County specifically designated in the County Comprehensive Plan for industrial development. This is just more baseless, anti-any development harem-scarem from KCPA. Enough already! It's time for the County to embrace and move forward on clean development project proposals that will increase tax revenues necessary to support our ability to fund Kirwin related improvements to our school programs and other sorely needed economic development priorities.

John Lysinger says

December 22, 2022 at 12:08 PM

It's unfortunate that any member of Kent County's Planning Commission, to which Paula Reeder has recently been appointed, should announce her decision regarding any

 MENU

equally clear that she embraces development with few, if any, boundaries. Thankfully, she will not be the only decisionmaker.

Write a Letter to the Editor on this Article

We encourage readers to offer their point of view on this article by submitting the following form. Editing is sometimes necessary and is done at the discretion of the editorial staff.

Search this website



PLANNING COMMISSION
FOR KENT COUNTY, MARYLAND

MILLINGTON CROSSING *
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NEAR MILLINGTON *

* * * * *

SPECIAL LAW MEMORANDUM

We represent Kent Conservation and Preservation Alliance and certain citizens. We are submitting this memorandum in accordance with the Planning Commission Bylaws, Section 7 – Rules of Procedure, which states in relevant part that “[i]f any Person wishes to bring to the Board’s attention complex data, reports, or arguments, that Person should submit the material in writing one week before the hearing . . .” This memorandum concerns a previous legal matter we had presented last year concerning an underlying

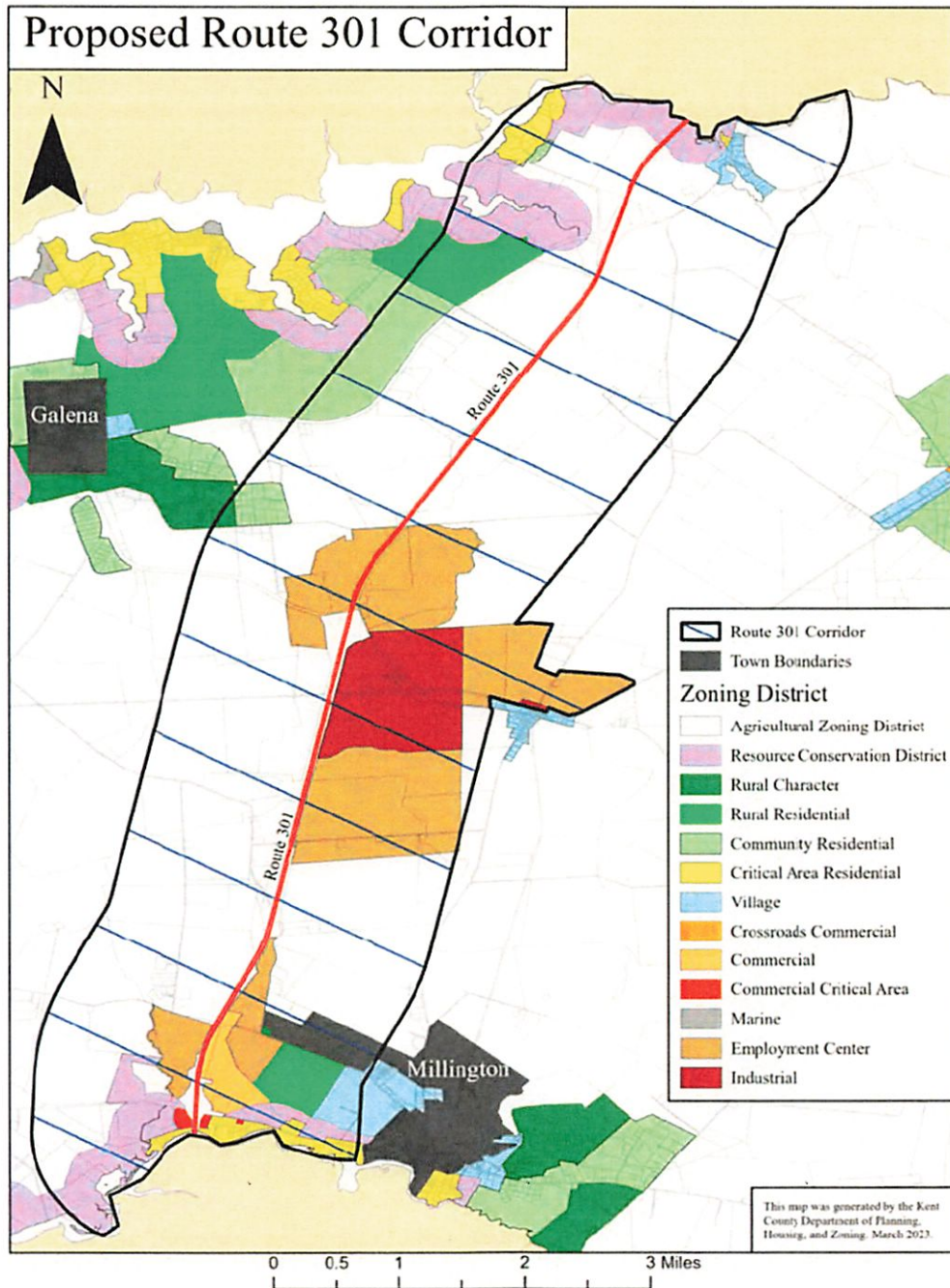
Zoning Text Amendment (“ZTA”) that was heard before the Kent County Commissioners on June 13, 2023. Specifically, the ZTA contemplates raising the maximum height of certain types of industrial buildings in specific districts—Industrial, Commercial, and Employment Center—in the County, but only if constructed within the 301 Corridor. While the definition of “301 Corridor” has been a matter of some debate, the government’s proposed definition when approving the ZTA was that it would encompass all land extending one mile to the east or west of any portion of U.S. Route 301.

We believe that the ZTA was wrongly approved due to the nature of how it was constructed as it first passed through the Planning Commission and then to the County Commissioners. Under the Maryland constitution, “special laws” are illegal, and the method of determining a special law is governed by a six-factor test:

- (1) “whether [the underlying purpose of the legislative enactment] was actually intended to benefit or burden a particular member or members of a class instead of an entire class”;
- (2) “[w]hether particular individuals or entities are identified in the statute”;
- (3) “[t]he substance and ‘practical effect’ of an enactment”;
- (4) “[i]f a particular individual or business sought and received special advantages from the Legislature, or if other similar individuals or businesses were discriminated against by the legislation”;
- (5) “[t]he public need and public interest underlying the enactment, and the inadequacy of the general law to serve the public need or public interest”;
- and
- (6) “whether [the legislative enactment is] arbitrary and without any reasonable basis[.]”

See generally Howard Cnty. v. McClain, 254 Md. App. 190, 198 (2022). We will briefly present our analysis with regard to this test.

The first two factors are analyzed concurrently. The second of the two factors is a *de minimis* issue according to courts that have reviewed special laws, *see generally id.* Nevertheless, in the Proposed Zoning letter for the ZTA, its owner Russ Richardson was clearly identified by name. Likewise, as to the first factor, the ZTA was narrowly tailored to only apply to a specific small band of land in Kent County, and then only to specific zoning categories in the County.



As seen in the chart above, the ZTA only applies to Industrial, Employment Center, and Commercial zoning, which results in a hypothetical application to a dozen properties. However, the properties in the northern part of the 301 Corridor do not have any existing

water and sewer service, which narrows the developable area that is able to take advantage of the ZTA to the few properties at the southern end of the County. These parcels are further limited by the developable envelopes of each, which makes construction of a Distribution Center-styled warehouse infeasible on the southerly Commercial properties. The only property owner in the entire area who both owns property large enough for development *and* has that property located in an area that is meaningfully capable of taking advantage of the ZTA is Russ Richardson, the owner of Millington Crossing Associates One, LLC.

The third special law factor speaks to substance and practical effect, and in this regard the ZTA is also a special law. The law, considered outside the context of comprehensive rezoning, affects one stretch along one roadway as opposed to being applied to bulk regulations of development generally, and thus it would permit a type of development 33% larger than previously allowed in only that one area. The specific stated goal of the ZTA and its associated submitted documents before this Commission and the County Commissioners was to permit this larger height scale for Distribution Center-styled warehouses, and no other types of industrial uses were defined by name or general parameter. Lastly, in accordance with typical development practices of Distribution Centers in Maryland and elsewhere, building multiple such centers in close proximity to each other simply never occurs, which means that even if the other properties east of 301 were to somehow consolidate under one deed and create a parcel large enough for a “competing warehouse,” it would never practicably occur. In essence, the ZTA permits a

single use in a single parcel for the benefit of a single developer to be larger than bulk regulations would allow for any other similar use anywhere else in the County.

The fourth factor, as the Commission might note, cascades from the first, second, and third. The history of the ZTA was that it came about at the behest of a specific named individual to increase the developable size of his property in a manner that would financially benefit him, in such a way that other individuals or businesses looking to develop properties under the same general law would suddenly be at a commercial disadvantage, if not fully foreclosed from any meaningful competing use in the area affected by the ZTA. It has the effect of stratifying Mr. Richardson's parcels to acquire development advantages that are disallowed anywhere else in the County. And procedure is as important as function in this case; had this same type of law been contemplated as part of comprehensive rezoning it may have been legally sufficient even if it had a similar practical effect to the "first in time" developer, but because it came about due to the specific actions of that first developer, he therefore received a special advantage.

The fifth factor is one that the Planning Commission was previously familiar with, given that it voiced similar concerns about the ZTA as passed in 2023 and had instead proposed a broader ZTA that would apply generally to commercial and industrial zones. Simply put, there is no obvious public need to permitting a larger development size in this specific area for a specific type of use. While the Commission may find that there is an arguable public need for "marketable properties" in the County at large that is served by looser bulk regulations, this would clearly be a public need for the County *at large*. To

suggest that there is a public need for one specific developer in one specific area to have special bulk regulations for his project alone is contrary to any notion of a general public need, and a general law would have sufficed to provide such a need were it extant. Furthermore, any argument that a Distribution Center *could not* exist without the proposed ZTA would necessarily carry with it the underlying proposition that Distribution Centers are not actually compatible by right in the applicable zones and that the ZTA would be adding a new use by right only in a specific location.

As to the sixth and final factor, case law holds that the arbitrariness calculation is not a determination of whether the underlying purpose is arbitrary, but whether the *restrictions* are arbitrary. ““By narrowing [the bill] to such extent that it only applies to one property, the Council rendered [the bill] unreasonable.” *McClain*, 254 Md. App. at 203–04. There appears to be no specific reason ever provided as to why the ZTA would only apply to a specific small area of the County (and consequently apply new *de facto* bulk restrictions to other I, C, and E-C zones County-wide), excepting that that’s where the ZTA’s primary advocate happens to own land that he wants to use in the specific manner permitted by the ZTA.

For the reasons stated above, we believe it is clear that the ZTA that is enabling the current size of the contemplated development is constitutionally illegal, and that the development cannot go forward with a maximum height greater than the baseline of 45 feet for a use of its type and location. As stated in our opening paragraph, we will submit other distinct concerns via separate memoranda for organizational purposes.

Respectfully submitted,

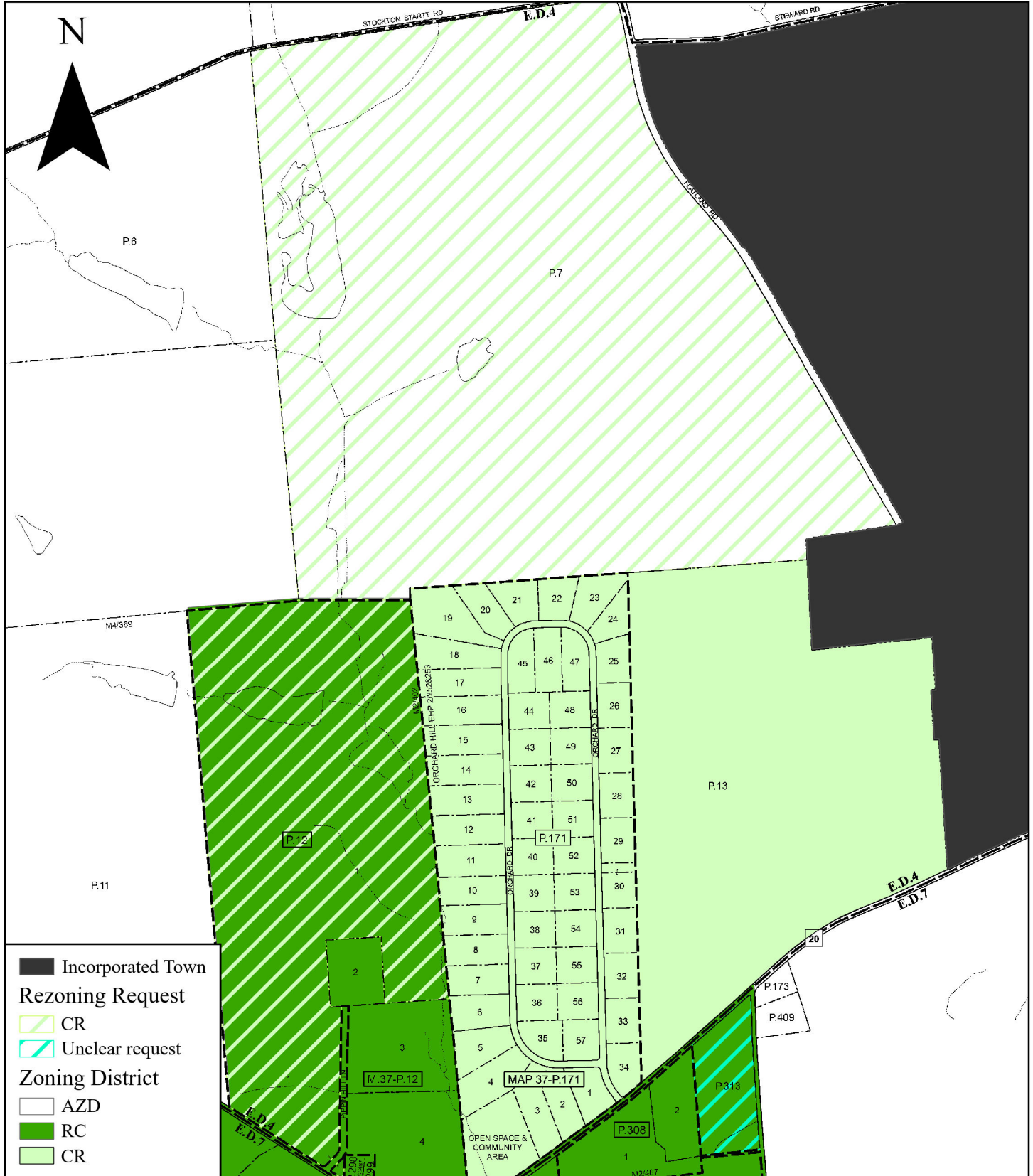


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Kevin Kimble, 348 Flatland Rd, Map 37, Parcel 7

William and Anne Norris, 24904 Chestertown Rd, Map 37, Parcel 12, Lot 1

S and L Farms, Map 44, Parcel 313



Source: Kent County Department of Planning, Housing, and Zoning. Map prepared February 2024.

1 in = 1,000 ft

Respondent

< 19 Anonymous >

18:26
Time to complete

1. Name: *

Joyce Rogers

2. Mailing Address: *

103 Patton Way elkton md. 21921

3. What would you like to do: *

- Propose a text change to the Land Use Ordinance.
- Request a rezoning of your property.

4. In order to request a rezoning please provide the property address or location. If your property doesn't have an address, please include the Map and Parcel number as found on your tax bill.

Use this link if you need to look up your Map and Parcel Number:
<https://sdat.dat.maryland.gov/RealProperty/Pages/default.aspx>
(<https://sdat.dat.maryland.gov/RealProperty/Pages/default.aspx>) *

44/313

5. What is the current zoning of your property?

Use this link to a mapping application if you need to find your zoning:
<http://kentcountymd.maps.arcgis.com/apps/webappviewer/index.html?id=def6d57892b740fcbaa7dc9afdf3ef33>
(<http://kentcountymd.maps.arcgis.com/apps/webappviewer/index.html?id=def6d57892b740fcbaa7dc9afdf3ef33>)

Once you find your parcel, just click on it to find your zoning.

Rural Character

6. What zoning district would you prefer? *

Commercial Residential (C/R)

7. Would you also like to request a text change?

Yes

No

8. Please provide your email address if you would like to be notified when new information is added to the Land Use Ordinance Update web page.

jrogers3017@yahoo.com

From: [Jamie Rogers](#)
To: [William Mackey](#)
Subject: S & L Farms Zoning District
Date: Monday, May 20, 2024 3:39:47 PM

ATTENTION!

This email originated from an external source. DO NOT CLICK any links or attachments unless you recognize the sender and know the content is safe.

- KCIT Helpdesk

Good afternoon Mr. Mackey,

As per our conversation regarding new zoning designation for S & L Farms, MAP 44, Parcel 313 — I am submitting this letter as clarification.

We are requesting Community Residential .. in lieu of Commercial Residential as stated on our submitted form.

Thank you for your assistance and sorry for any confusion.

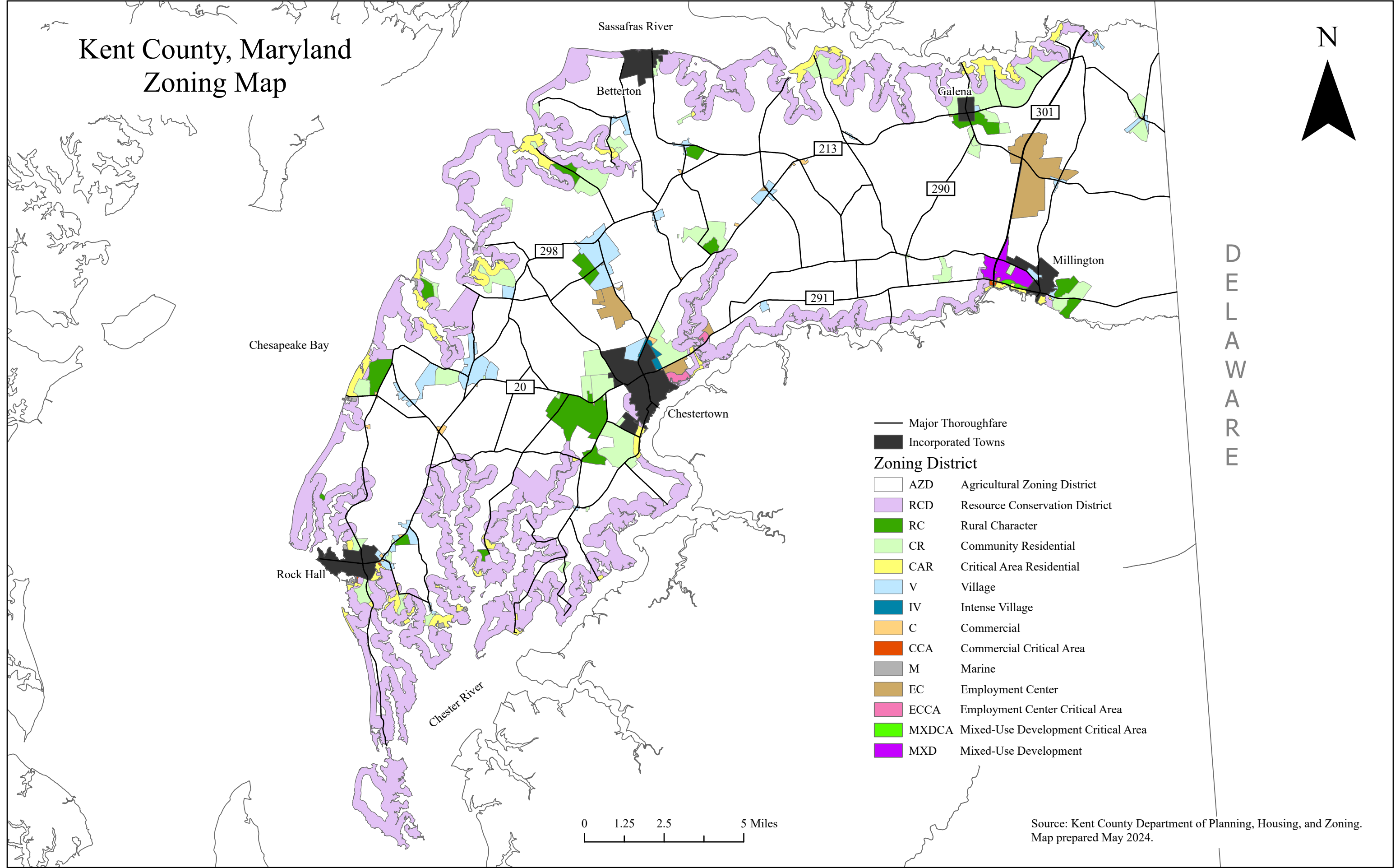
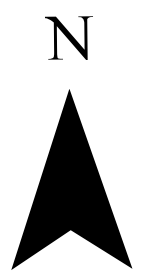
Joyce Rogers

Sent from my iPad

PDF MAP #	Owner	Tax Map	Parcel	Lot	Acres	Current Zoning	Requested Zoning	PC Recommendation
1	Brayton Family Limited Partnership	37	76	1	11.800	IV	C	Favorable
1	Brayton Family Limited Partnership	37	97		10.000	IV	C	Favorable
1	Wesley Brewer Properties LLC / Alden Yetman	37	38		0.996	AZD / IV	IV	Favorable
2	Olga Brooks	16	16		1.730	V	AZD	Unfavorable
3	Diane Lee Carey & Sandra A Ealy	51	105		0.720	CAR		No change
4	Anne Chandler & Arthur Harris III	12	92		118.000	AZD/RCD	CR / CAR	Favorable
5	John E Sr & Donna Marie Dottellis	7	339	5	6.000	CAR/RR	CR	No change
5	Leon K & Jo Ann M Hurlock	7	294		0.371	CAR	CAR	No change
5	Leon K & Jo Ann M Hurlock	7	296		0.375	CAR	CAR	No change
6	Barbara A Edwards	52	106		1.612	RCD/M	RCD	Favorable
6	Charlotte L Edwards et als	51	188		1.870	M	M	No change
6	Charlotte L Edwards et als	51	189		3.690	M	M	No change
6	Tillers Cottages LLC	51	187		0.501	M	M	No change
7	Walter & Cora M Gould	43	10		10.010	RC	RR	Favorable
8	John R Graziani	52	169		1.500	CR	AZD	Unfavorable
9	Haven Emporium LLC	50	69		1.030	CAR/M	M	Favorable
9	Haven Emporium LLC	50	141		0.860	CAR	M	Favorable
9	Haven Emporium LLC	50	23		7.090	CAR/M	M	Favorable
9	Haven Emporium LLC	50	142		0.258	CAR	M	Favorable
10	William Stevens & Ssuan Kelly Ingersoll	53	44		1.750	AZD	RR	Unfavorable
11	F & S Operations LLC	37	485	3	0.571	IV	IV	No change
11	Joan Ozman Horsey	37	180		4.710	IV	IV	No change
11	Jimstown LLC	37	44		0.830	IV	IV	No change
11	Jimstown LLC	37	177		21.504	IV	IV	No change
11	Walter F & Tracye S Landon	37	485	1	0.942	IV	IV	No change
11	Scott O & Shari C Smith	37	485	2	0.664	IV	IV	No change
11	Todd B & Diane H Smith	37	485	4	1.670	IV	IV	No change
12	Russ Richardson / Millington Crossing							Favorable
12B	Charles W Jones Jr et als	32	36		0.700	CAR	CAR	No change
13	Kevin G Kimble	37	7		331.000	AZD	CR	Favorable
13	William H & Anne J Norris	37	12	1	127.740	RC	CR	Favorable
13	S & L Farms LLC	44	313		10.100	RC	C/R	
14	Kinlaw Security Group LLC	35A	249		0.092	CR	C	Unfavorable
15	Alberta Frances & James E Lindauer	28	31	1	72.770	I	AZD	Favorable
15	Alberta Frances & James E Lindauer	28	31	2	2.000	I	AZD	Favorable
15	Michael Vargo & Milton P Glazer	28	160		46.000	AZD	EC	Favorable
15	Michael Vargo & Milton P Glazer	28	103		23.000	AZD	EC	Favorable
16	Thomas Irvin & Donna Marie Lins	27	19		26.500	AZD	AZD	No change
17	John F & Patricia M Macielag	55	88		25.540	CAR	CAR	No change
18	Massey Properties LLC	24	7		50.582	AZD/EC	AZD	Favorable
18	Massey Properties LLC	24	15		258.572	AZD/EC	AZD	Favorable

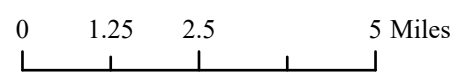
PDF MAP #	Owner	Tax Map	Parcel	Lot	Acres	Current Zoning	Requested Zoning	PC Recommendation
19	Mary Jane Mayo	16	6		198.363	EC	EC	No change
20	Phillips Station LLC	21	158		2.660	V	EC	Favorable
22	John A & Pamela M Schwartz	20	3		9.550	AZD	AZD	No change
23	Elizabeth C Sisco	46	38		0.500	V	V	No change
24	James H Smith				0.000	RC	AZD	Unfavorable
24	James H Smith	44	144		9.780	RC	AZD	Unfavorable
24	James H & Elizabeth R Smith	44	68		6.000	RC	AZD	Unfavorable
24	James H & Elizabeth R Smith	44	187		6.000	RC	AZD	Unfavorable
24	James H & Elizabeth R Smith	44	330		32.000	AZD	AZD	Unfavorable
25	Francis E & Georgia May Sweetman et als	17	10		0.300	CC	CC	No change
25	Francis Eugene Sweetman	17	58		1.450	CC	CC	No change
25	Francis Eugene Sweetman	17	81		0.200	CC	CC	No change
25	Francis Eugene Sweetman	17	125		0.200	V	CC	No change
27	Richard David E Walters & Dennis S Walters	15	8		79.580	AZD	CR	Favorable
28	Thomas E Weisenfels Trustee	8	83		0.893	CAR	RR	Unfavorable
29	William A Jr & Virginia I Wilson	31	21		5.000			No change
30	Chester River Yacht and Country Club - waterfront	44	15		0.000	CAR	M	Favorable
31	H And A Farm LLC	24	12	1	180.553	AZD/EC	EC	Unfavorable
33	Edward & Yvonne P Mills	13	109		2.324	CC/AZD	C	Favorable
33	Vonnie P Mills	14	33A		3.500	AZD	C	Favorable
34	Franklin A Kelley	51	378		1.706	V	AZD	Unfavorable
35	Good House LLC	27	470		0.344	CR	V	Unfavorable
35	Good House LLC	27	691		0.350	CR	V	Unfavorable
35	Good House LLC	27	444		0.379	CAR	V	Unfavorable
35	Good House LLC	27	577		0.355	CAR	V	Unfavorable
35	Good House LLC	27	516		0.435	CAR	V	Unfavorable
35	Good House LLC	27	58		2.000	V	V	No change
36	Bram Weinstein	7	15B		0.000	CR	C	Unfavorable
37	John D North	44	110		8.000	CR	CR	No change
38	John W Standiford & Karen A Yasinsky	45	48	2	4.590	RCD	CR	Unfavorable
39	John T & Deborah L Orr	7	302		3.000	CAR	CAR	No change
40	Hoagland Farm LLC	36	24	1	105.510	CR	V	Favorable
41	Roy P Hoagland	35D	301		0.278	CC	C	No change
42	Rebecca Anne & George H Kendall	48	48		2.000	CR	AZD	Favorable

Kent County, Maryland Zoning Map



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- Major Thoroughfare
- Incorporated Towns
- Zoning District**
- AZD Agricultural Zoning District
- RCD Resource Conservation District
- RC Rural Character
- CR Community Residential
- CAR Critical Area Residential
- V Village
- IV Intense Village
- C Commercial
- CCA Commercial Critical Area
- M Marine
- EC Employment Center
- ECCA Employment Center Critical Area
- MXDCA Mixed-Use Development Critical Area
- MXD Mixed-Use Development



Source: Kent County Department of Planning, Housing, and Zoning.
Map prepared May 2024.