

**MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION**  
**STAFF REPORT**

<b>Address:</b>	23515 Frederick Road to 23200 Stringtown Road, Clarksburg	<b>Meeting Date:</b>	10/28/2020
<b>Resource:</b>	Multiple Resources <b>Clarksburg Historic District</b>	<b>Report Date:</b>	10/21/2020
<b>Applicant:</b>	MCDOT (Yasamin Esmaili, Agent)	<b>Public Notice:</b>	10/14/2020
<b>Review:</b>	HAWP	<b>Tax Credit:</b>	N/A
<b>Case Number:</b>	13/10-20C	<b>Staff:</b>	Michael Kyne

**PROPOSAL:** Construction of shared-use path with associated hardscape, lighting, grading, tree removals

**STAFF RECOMMENDATION:**

Staff recommends that the HPC **approve** the HAWP application.

**ARCHITECTURAL DESCRIPTION:**

**SIGNIFICANCE:** Multiple Resources within the Clarksburg Historic District  
**STYLE:** Various  
**DATE:** Platted Early 1790s



***Fig. 1: Clarksburg Historic District.***

## **HISTORIC CONTEXT:**

The following was excerpted from *Places From the Past: The Tradition of Gardez Bien in Montgomery County, Maryland*:

### 13/10 CLARKSBURG HISTORIC DISTRICT (Platted Early 1790s)

Early in the county's history, Clarksburg was a substantial center of commerce and transportation. John Clark surveyed the land and subdivided lots along Frederick Road in the early 1790s, yet the town's origins extended back to the mid-1700s. Michael Dowden built a hotel and tavern about 1754. A popular stop along the well-traveled Great Road between Frederick and Georgetown, Dowden's Ordinary is said to have provided lodging and entertainment for such well-known travelers as General E. Braddock, George Washington, and Andrew Jackson. According to tradition, John Clark's father William, from Lancaster County, Pennsylvania, had chosen this location, at the intersection of two Indian trails, as early as 1735 as a site for trading with Native Americans. His trading post may have influenced Dowden's choice for locating his ordinary.

John Clark built a general store and became the community's first postmaster. The post office, established 1800, was one of the first in the county. By 1850, the town was the third most populous in the county, and the residents numbered 250 by 1879.

One of the earliest structures in the community is found at the Clark-Waters House, 23346 Frederick Road. According to tradition, John Clark constructed the rear section in 1797. The building was enlarged and updated in the 1840s with the Italianate-style front section, under the ownership of Clark's daughter and son-in-law Mary and William Willson. One of the few remaining log buildings in the community is found at 23415 Frederick Road. Thomas Kirk probably built the John Leaman House (23415), now covered with clapboard siding, in 1801. John Leaman, a carpenter, purchased the house in 1871 and built the substantial rear addition around 1890.

John Clark, a Methodist, was a leader in organizing the Clarksburg Methodist Episcopal Church in 1788. The church has one of the oldest continuous Methodist congregations in the County. A log chapel was built on this site in 1794, a brick structure in 1853, and the present Gothic Revival-style church in 1909. As a major stagecoach stop between Frederick and Georgetown, Clarksburg supported several inns and taverns. By the mid-1800s, the town also included general stores, a tannery and blacksmiths, and wheelwrights. William Willson probably built Willson's Store, 23341 Frederick Road, around 1842. In 1879, Clarksburg had 250 residents, making it the third most populous town in the County. The Queen Anne-style house at 23310 Frederick Road, known as Hammer Hill, as built c.1891-1900 by Clarksburg physician Dr. James Deetz and his wife Sarah. The name, Hammer Hill, comes from the tract name given this land in 1752. The William Hurley Shoe Shop, 23421 Frederick Road, probably built around 1842, is typical of early rural commercial structures in its simplicity and small scale. In the early 20th-century, it housed Helen Hurley's millinery shop. The house, located behind the shop, originally consisted of the rear portion that was built by Arnold Warfield about 1800. The building may contain an early log section. Hurley family owners of the house and shoe shop included shoemaker William Hurley and Clarksburg Brass Band organizer J. Mortimer Hurley.

Clarksburg has historically been a bi-racial town. While many African Americans settled, after the Civil War, in communities separate from white settlements, freed slaves in Clarksburg built houses in and around the town. In 1885, John Henry Wims built his frame house in Clarksburg's center, at 23311 Frederick Road. The location of his dwelling near the post office was a convenience for Wims, one of the few black mail carriers working in the county.



One of the County's last and most elaborate remaining examples of a two-room schoolhouse is the Clarksburg School, 13530 Redgrave Place, built in 1909. One of the County's last and most elaborate remaining examples of the two-room schoolhouse, the Clarksburg School was in continuous use from 1909 to 1972. The cruciform-shaped building has a Colonial Revival-influenced design with pedimented and pilastered doorframe, oversize cornice returns, and gable overhang. Near the school are the sites of the earlier Clarksburg Academy (1833) and a one-room school.

Growth in Clarksburg declined in the late 19th century, when the B & O Railroad bypassed the town for nearby Boyds. The advent of the automobile and improved roads brought something of an economic revival beginning in the 1920s. New boarding houses opened in town to accommodate the new auto tourism.

### **BACKGROUND:**

The applicants previously appeared before the Commission at the February 12, 2020 HPC meeting for a preliminary consultation.<sup>1</sup>

### **PROPOSAL:**

The applicants propose to construct an 8' wide shared-use path along the east side of MD 355 (Frederick Road) within the Clarksburg Historic District. The proposal also includes intersection improvements, tree removal/planting, and streetlamp installation.

### **APPLICABLE GUIDELINES:**

When reviewing alterations and new construction within the Clarksburg Historic District several documents are to be utilized as guidelines to assist the Commission in developing their decision. These documents include *Montgomery County Code Chapter 24A (Chapter 24A)*, the *Vision of Clarksburg: A Long-Range Preservation Plan (Vision)*, and the *Secretary of the Interior's Standards for Rehabilitation (Standards)*. The pertinent information in these documents is outlined below.

#### ***Montgomery County Code; Chapter 24A-8***

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:
  - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
  - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or

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<sup>1</sup> Link to February 12, 2020 HPC meeting audio/video transcript: [http://mncppc.granicus.com/MediaPlayer.php?publish\\_id=cf45bbd0-4e99-11ea-9ca4-0050569183fa](http://mncppc.granicus.com/MediaPlayer.php?publish_id=cf45bbd0-4e99-11ea-9ca4-0050569183fa)  
 Link to February 12, 2020 preliminary consultation staff report: <https://montgomeryplanning.org/wp-content/uploads/2020/02/II.A-Multiple-Addresses-Clarksburg.pdf>

- (3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or
  - (4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or
  - (5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or
  - (6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.
- (c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.
  - (d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

#### ***Secretary of Interior's Standards for Rehabilitation***

The Secretary of the Interior defines rehabilitation as “the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.” The *Standards* are as follows:

- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

#### **STAFF DISCUSSION:**

The applicants contacted the Functional Planning and Policy (FPP) division in 2018 for a Mandatory Referral. In consultation with historic preservation staff, the applicants were instructed to conduct further archaeological investigations, consider additional permeable paving, and to revise their drainage plan to avoid known African American archaeological sites. The applicants made the requested revisions and subsequently appeared before the Historic Preservation Commission (HPC) at the February 12, 2020 HPC meeting seeking guidance regarding the appropriateness of the proposed project.

At the February 12, 2020 HPC meeting, the Commission voiced support for the project but recommended the following:

- a. The proposed Colonial-style light fixtures will detract from the historic district, and alternatives should be explored.

- b. Explore reducing the height of the retaining wall at 23407 and 23415 Frederick Road (as depicted on Page 32 of the February 12, 2020 staff report).
- c. Concerns were expressed regarding altering the relationship of houses along Frederick Road to the street, due to the construction of retaining walls in front of the houses. The applicant should explore the introduction of stairs within the retaining walls to retain the relationship.
- d. Consider reduction of the paved area and driveway width at 23421 Frederick Road (as depicted on Page 34 of the February 12, 2020 staff report).
- e. Consider working with property owners to reduce the number of curb cuts and/or combine driveways.
- f. Explore minimizing the amount of pavement directly adjacent to the proposed shared-use path and/or in front of the houses.
- g. Concrete with exposed aggregate should be used in lieu of plain concrete.
- h. Explore differing border materials along the proposed shared-use path to achieve the required 8' minimum width.
- i. Consider preserving the existing concrete stair along Frederick Road (as depicted on Page 27 of the February 12, 2020 staff report).
- j. Reduce the height of all proposed retaining walls and soften the retaining walls' appearance, where possible.

The applicants have returned with following responses to the Commission's recommendations:

- a. Potomac Edison only offers two light fixture styles, Colonial- and Acorn-style. Members of the Clarksburg Historic District requested the Colonial-style light fixture; however, in order to match the light fixtures on adjacent Clarksburg Square Road, the applicants propose Acorn-style light fixtures. This is also generally consistent with the Commission's recommendations.
- b. The maximum height of the retaining wall is 6' above grade, and reducing the height requires moving the wall closer to the road. Due to buffer requirements and minimum path width requirements, the wall can only be moved 1' to 2', which would not perceptibly change the wall height, would conflict with proposed drainage, and possibly conflict with waterline relocation. Therefore, the applicants have not revised this aspect of their proposal.
- c. There are currently no pedestrian accommodations to the front of 23407 and 23415 Frederick Road, which are commercial properties. Pedestrian access is currently from the rear and side of both buildings. Therefore, the applicants have not revised this aspect of their proposal (see specific response below).
- d. The applicants have indicated that they will reduce the driveway width to the minimum width needed for commercial use of the driveway and for the type of vehicles requiring access, where possible (see specific response below).
- e. The applicants have indicated that they will reduce the width of the driveways [and/or combine driveways], where possible (see specific responses below).
- f. The applicants have indicated that they will reduce the amount of pavement adjacent to the proposed shared-use path, where possible (see specific responses below).
- g. Exposed aggregate concrete is not a standard material for sidewalks and is not allowed by SHA. Tinted or stained concrete could be used as an aesthetic alternative, at the HPC's direction.
- h. Separate materials will cause differential settlement along the edge of the path and will create uneven pavement, which will create ADA compatibility issues. Because of this, this treatment is not recommended and was not pursued by the applicants.
- i. The applicants agree with the Commission's recommendation regarding the preservation of the existing concrete stair along Frederick Road. Accordingly, the applicants will amend their plans to direct the contractor to remove and salvage the existing stairs, and the contractor will coordinate with M-NCPPC to have the stairs taken to a preferred location. *(Staff notes that the Commission's recommendation was to consider leaving the stair in place, not to remove it and preserve it off-site.)*



- j. The applicants have stated that response “b” regarding retaining wall height applies here as well. The finish of the proposed retaining walls has been revised to plain concrete, as recommended.

Specific responses to the Commission’s recommendations regarding driveway width, retaining wall revisions, and reduction in paving:

The application states that the applicants’ Office of Property Acquisition contacted several property owners and/or their representatives regarding the proposed right-of-way and modification to some of the driveways, due to the proposed construction of the shared-use path.

The following are details of those discussions and the proposed modifications [*with addresses changed by staff for clarification, where appropriate*]:

- 23401 Frederick Road (dentist’s office) (*see the Commission’s recommendation and the applicants’ response labeled “f” above*)
  - The grading is proposed to be altered to meet the existing front deck height from the proposed shared-use path.
  - The driveway apron is proposed to be shortened.
  - The existing parking spaces in front of the building are proposed to be removed, accommodating the construction of the proposed shared-use path, and new parking spaces are proposed at the side of the building. This will reduce the amount of pavement adjacent to the proposed shared-use path in front of the building.
  - The applicants’ Property Acquisition Specialist contacted the property owners on June 1, 2020, September 18, 2020, and September 24, 2020. The property owners have now hired a lawyer to represent them.
- 23407 & 23415 Fredrick Road (plumbing business) - Retaining wall in front of the buildings (*see the Commission’s recommendation and the applicants’ response labeled “c” above*)
  - Pedestrian access to these properties is currently at the sides.
  - The applicants’ Property Acquisition Specialist contacted the property owner’s representative [same owner for both properties] on October 9, 2020 and October 12, 2020 to discuss the proposed right-of-way and whether the owner would prefer pedestrian access from the proposed shared-use path at the front of the building. The property owner’s representative indicated that they have hired a real estate firm to redevelop their property, and they will not come to any agreements until their site plan is approved.
- 23421 Fredrick Road & adjacent access to 23425 & 23505 Frederick Road to the rear (plumbing business) [same owner for all as 23407 & 23415 Frederick Road] (*see the Commission’s recommendations and the applicants’ responses labeled “d” and “e” above*)
  - As proposed, the width of the driveway entrances will be reduced from 30’ to 20’.
  - As proposed, the two existing driveway entrances at 23421 Frederick Road will be combined into one driveway entrance, removing one curb cut.

Staff remains supportive of the applicant’s proposal and finds that the applicants have generally responded to the Commission’s recommendations at the February 12, 2020 preliminary consultation. The applicants have also responded to staff’s previous concerns regarding the compatibility of the proposed retaining walls (specifically, concerns that cultured stone veneers and/or stamped concrete would be an

inappropriate finish, and that plain concrete would be an appropriate option), as well as questions about the proposed new streetlamps.

As staff noted in the February 12, 2020 preliminary consultation staff report:

*The Clarksburg Master Plan and Hyattstown Special Study Area (1994), which amended the Clarksburg and Vicinity Master Plan (1968), called for an off-street bike path along the existing road with vegetation against the edges in this location. In addition, the 10 Mile Creek Area Limited Amendment (2014), which amended the Clarksburg Master Plan and Hyattstown Special Study Area (1994) for the Ten Mile Creek Watershed, recommended a shared-use path in this location.*

Most of the proposed work will occur within the public right-of-way, where previous alterations (i.e., road and sidewalk construction, road widening, regrading, landscaping) have occurred. In accordance with *Standards #2 and #9*, the addition of a shared-use path will not remove or alter character-defining features of the historic district. The introduction and/or replacement of modern transportation features and appurtenances within the public right-of-way will not detract from the district's ability to convey its historical significance. Staff finds that increasing the connectedness of the historic district via a shared-use path will create a more cohesive streetscape, with buildings that clearly relate and interact with one another.

After full and fair consideration of the applicant's submission staff finds the proposal as being consistent with the Criteria for Issuance in Chapter 24A-(b) 1 and 2, having found the proposal is consistent with the *Secretary of the Interior's Standards for Rehabilitation #2 and #9* outlined above.

#### **STAFF RECOMMENDATION:**

Staff recommends that the Commission **approve** the HAWP application under the Criteria for Issuance in Chapter 24A-8(b), (1), (2) & (d) having found that the proposal will not substantially alter the exterior features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and with the *Secretary of the Interior's Standards for Rehabilitation #2 and #9*;

and with the general condition that the applicant shall present the **3 permit sets of drawings, if applicable to Historic Preservation Commission (HPC) staff for review and stamping** prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make **any alterations** to the approved plans.

Once the work is completed the applicant will contact the staff person assigned to this application at 301-563-3400 or [michael.kyne@montgomeryplanning.org](mailto:michael.kyne@montgomeryplanning.org) to schedule a follow-up site visit.



FOR STAFF ONLY:  
HAWP# \_\_\_\_\_  
DATE ASSIGNED \_\_\_\_\_

**APPLICATION FOR  
HISTORIC AREA WORK PERMIT**  
HISTORIC PRESERVATION COMMISSION  
301.563.3400

**APPLICANT:**

Name: Ms. Yasamin Esmaili  
Address: 100 Edison Park Drive, 4th Floor  
Daytime Phone: 240-777-7226

E-mail: Yasamin.Esmaili@montgomerycountymd.gov  
City: Gaithersburg Zip: 20878  
Tax Account No.: \_\_\_\_\_

**AGENT/CONTACT (if applicable):**

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Daytime Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_  
City: \_\_\_\_\_ Zip: \_\_\_\_\_  
Contractor Registration No.: \_\_\_\_\_

**LOCATION OF BUILDING/PREMISE:** MIHP # of Historic Property \_\_\_\_\_

Is the Property Located within an Historic District? ☒ Yes/District Name Clarksburg Historic District  
☐ No/Individual Site Name \_\_\_\_\_

Is there an Historic Preservation/Land Trust/Environmental Easement on the Property? If YES, include a map of the easement, and documentation from the Easement Holder supporting this application.

Are other Planning and/or Hearing Examiner Approvals /Reviews Required as part of this Application? (Conditional Use, Variance, Record Plat, etc.?) If YES, include information on these reviews as supplemental information.

Building Number: \_\_\_\_\_ Street: \_\_\_\_\_  
Town/City: \_\_\_\_\_ Nearest Cross Street: \_\_\_\_\_  
Lot: \_\_\_\_\_ Block: \_\_\_\_\_ Subdivision: \_\_\_\_\_ Parcel: \_\_\_\_\_

**TYPE OF WORK PROPOSED: See the checklist on Page 4 to verify that all supporting items for proposed work are submitted with this application. Incomplete Applications will not be accepted for review. Check all that apply:**

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> New Construction   | <input type="checkbox"/> Deck/Porch                     | <input type="checkbox"/> Shed/Garage/Accessory Structure  |
| <input type="checkbox"/> Addition                      | <input checked="" type="checkbox"/> Fence               | <input type="checkbox"/> Solar  |
| <input checked="" type="checkbox"/> Demolition         | <input checked="" type="checkbox"/> Hardscape/Landscape | <input checked="" type="checkbox"/> Tree removal/planting                                       |
| <input checked="" type="checkbox"/> Grading/Excavation | <input type="checkbox"/> Roof                           | <input type="checkbox"/> Window/Door  |
|  |   | <input checked="" type="checkbox"/> Other: <u>Sidewalk, Shared Use Path, Stream Restoration</u> |

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

Yasamin Esmaili

10/6/2019

Signature of owner or authorized agent

Date



Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

There are 24 properties listed on the MD Inventory of Historic Properties within a one-mile radius of the Study Area, which includes the Clarksburg Historic District (MO:13-10). The historic district primarily contains a mix of late 18th through 20th century residential and commercial structures, but the majority of historic structures date back to the 19th century of this transportation and trade center. A Historic Built Environment Investigation was conducted and zero properties listed on the MD Inventory of Historic Properties within the proposed project study area would be affected.

Description of Work Proposed: Please give an overview of the work to be undertaken:

The proposed improvements include an 8 ft wide shared-use path along the east side of MD 355 from Stringtown Road to Snowden Farm Parkway in Clarksburg, MD. Intersection improvements at Frederick Rd and Clarksburg Rd include new turn lanes, bike lanes, shoulder widening, sidewalk connections and a side path along Frederick Rd. There will be 350 ft of stream restoration along Clarksburg Road. This project is partially in the Clarksburg Historic District. The work is proposed within state and county right-of-way, but may require two small acquisitions of undeveloped land. Most of the area is heavily disturbed due to previous road and intersection construction, widening, grading and landscaping. It is anticipated to remove 61 trees and replace 110 trees, as shown on the attached Tree Survey Plans. A Historic Built Environment Investigation was conducted and zero properties listed on the MD Inventory of Historic Properties within the proposed project study area would be affected.

Work Item 1: <u>Shared Use Path and associated improvements</u>	
Description of Current Condition:  Refer to attached plans.	Proposed Work: Refer to attached plans.

Work Item 2: _____	
Description of Current Condition:	Proposed Work:

Work Item 3: _____	
Description of Current Condition:	Proposed Work:

# HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/ Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/ Parking Area	*	*		*	*	*	*
Grading/Excavation/ Landscaping	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*



**TRANSMITTAL LETTER**

TO :  
Maryland National Capitol Parks and  
Planning Commission  
8787 Georgia Avenue  
Silver Spring MD 20910  
United States  
ATTENTION: Rebecca Ballo

DATE: 10/6/2020

PROJ NO: 214013.0010

RE: MD 355 Clarksburg Shared  
Use Path

QTY	DATED	DESCRIPTION
1	10/6/2020	Permit Application
1	10/6/2020	Photographs
1	10/6/2020	PropOwnerList
1	10/6/2020	SitePlans
1	10/6/2020	TreeSurvey
1	10/6/2020	AcornLight-DetailsClarksburgSquare.pdf
1	10/6/2020	AcornLight-PhotoClarksburgSquare.pdf
1	10/6/2020	RevisedResponses.docx

REMARKS: Rebecca,

This HAWP application is for the MD 355 - Clarksburg Shared Use Path project and MD 355/Clarksburg Road Intersection Improvements project.

Please click on the links to download the application and related documents.

Please let me know if you have any questions.

Thanks.

Scott

Yasamin Esmaili	(Montgomery County Government)
Mark Bodmann	(WM&A)
Daniel Sheridan	(Montgomery County Government)

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Electronic Data Disclaimer

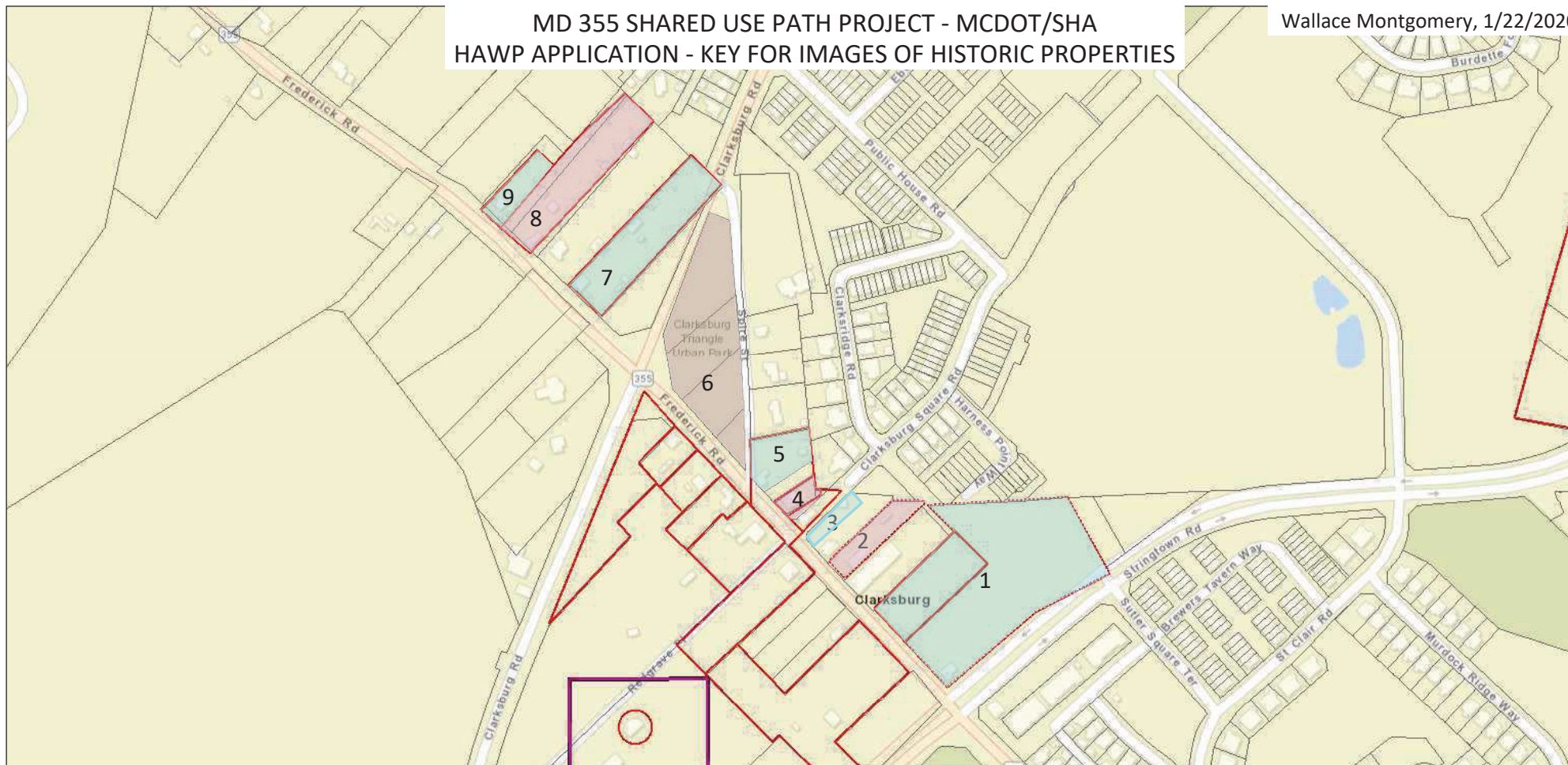
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# MD 355 SHARED USE PATH PROJECT - MCDOT/SHA HAWP APPLICATION - KEY FOR IMAGES OF HISTORIC PROPERTIES

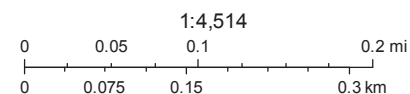
Wallace Montgomery, 1/22/2020



January 2, 2020

1. 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14  
23311 Frederick Road - Columbus Woodward House/John Henry Wims House - MIHP No. M: 13-10-9
2. 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13
3. 23339 Frederick Road - Horace Wilson House - MIHP No. M: 13-10-3 (relocated)
4. 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4
5. 23345 Frederick Road
6. Triangle Park

7. 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12
8. 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10
9. 23421 Frederick Road - William Hurley House & Shoe Shop - MIHP No. M: 13-10-8



MD IMAP, MDP, SDAT  
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Made by: Maryland Historical Trust  
MDP

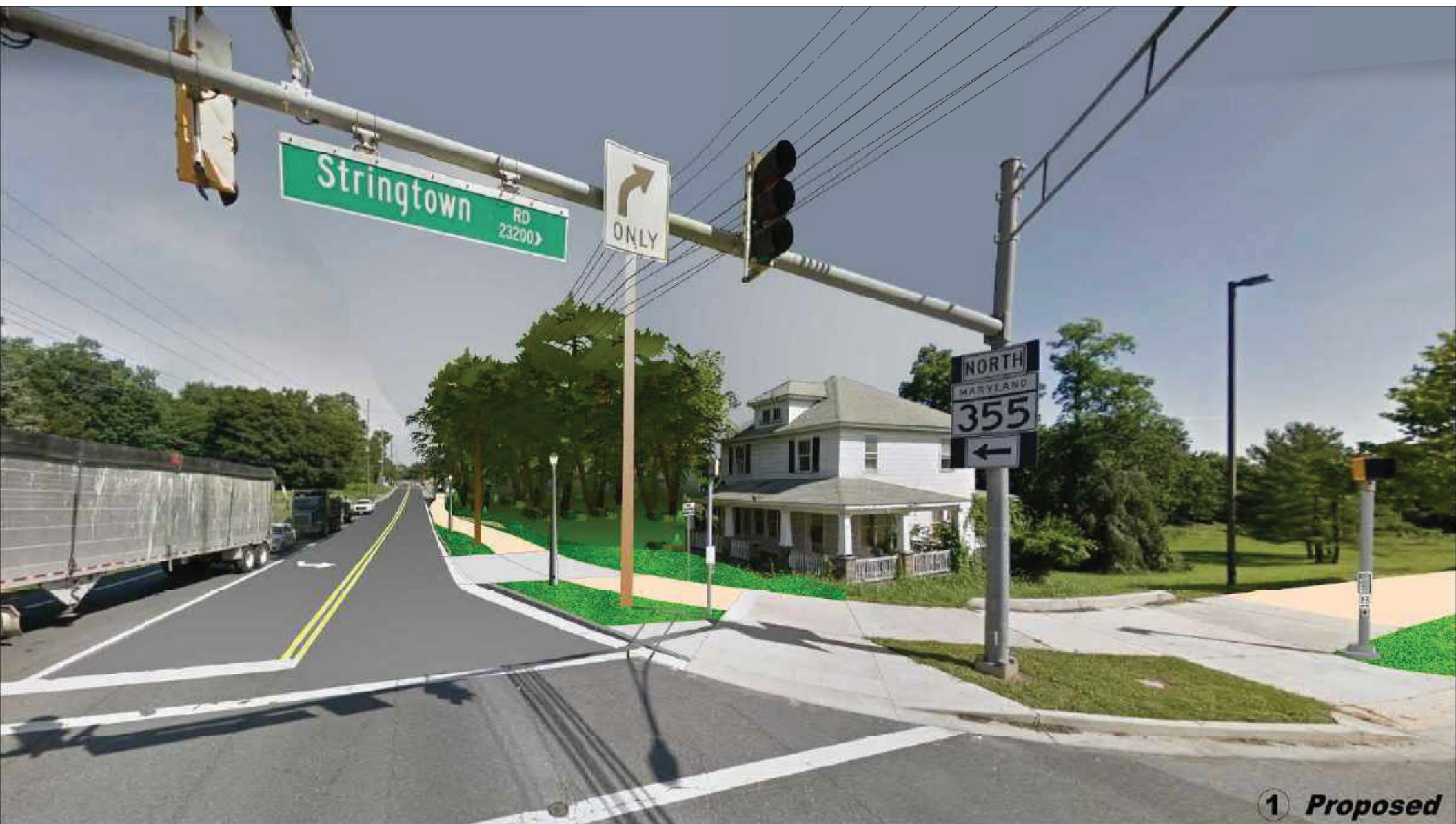




① Existing

**Station 495+00 to 498+00 - 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14**  
**23311 Frederick Road - Columbus Woodward House/John Henry Wims House - MIHP No. M: 13-10-9**





① *Proposed*

**Station 495+00 to 498+00 - 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14**  
**23311 Frederick Road - Columbus Woodward House/John Henry Wims House - MIHP No. M: 13-10-9**



② Existing

**Station 500+00 - 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13**





② *Proposed*

**Station 500+00 - 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13**





**Station 501+00 - 23335 Frederick Road  
Horace Wilson House (Relocated) - MIHP No. M: 13-10-3**





**Station 501+00 - 23335 Frederick Road  
Horace Wilson House (Relocated) - MIHP No. M: 13-10-3**





**Station 502+50 - 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4**





**Station 502+50 - 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4**

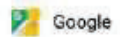


Google Maps 23345 Frederick Rd



Image capture: Dec 2016 © 2019 Google

Clarksburg, Maryland



Street View - Dec 2016

**5 Existing**

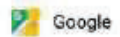
**Station 503+50 - 23345 Frederick Road**

Google Maps 23345 Frederick Rd



Image capture: Dec 2016 © 2019 Google

Clarksburg, Maryland



Street View - Dec 2016

**5 Proposed**

**Station 503+50 - 23345 Frederick Road**





**Station 504+50 to 506+00 - Triangle Park**





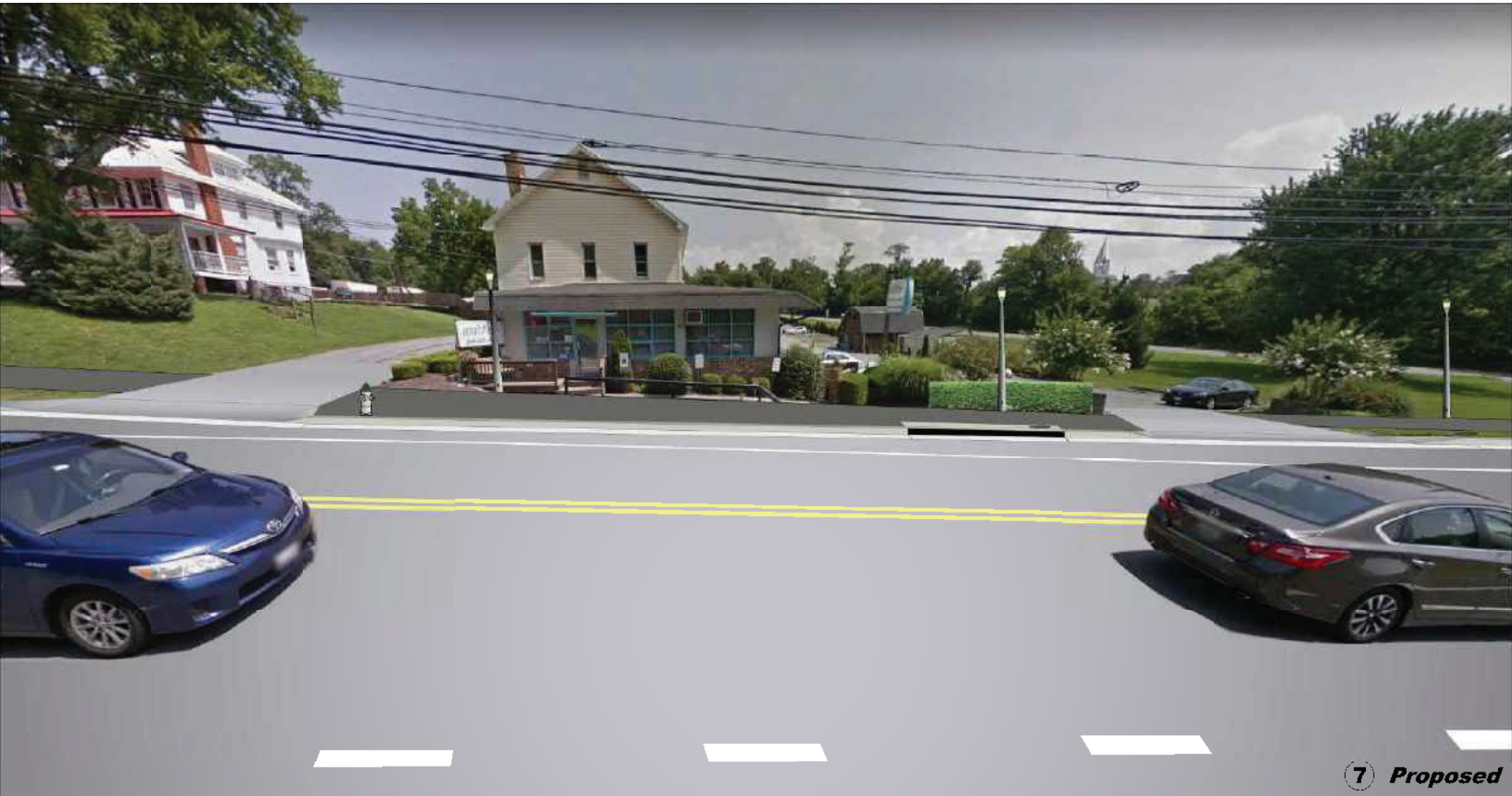
**Station 504+50 to 506+00 - Triangle Park**





7 Existing

Station 511+00 - 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12



**Station 511+00 - 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12**





⑧ Existing

**Station 513+00 - 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10**





⑧ *Proposed*

**Station 513+00 - 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10**





**Station 514+50 - 23421 Frederick Road  
William Hurley House & Shoe Shop - MIHP No. M: 13-10-8**





**Station 514+50 - 23421 Frederick Road  
William Hurley House & Shoe Shop - MIHP No. M: 13-10-8**

**PROJECT: MD 355 FREDERICK  
ROAD**

**PROJECT No.: 214013.0010  
COUNTY:**

**501744  
MONTGOMERY**

No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
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	P233	EW31	Montgomery County, MD	L. 33114 F. 763	101 Monroe St., Rockville, MD. 20850	23311 Frederick Rd., Clarksburg, MD. 20871	
	P044	EW31	Montgomery County, MD	L. 35097 F. 511	101 Monroe St., Rockville, MD. 20850	23365 Frederick Rd., Clarksburg, MD. 20871	
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	P050	EW31	Montgomery County, MD	L. 39699 F. 391	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P004	EW31	Montgomery County, MD	L. 39699 F. 414	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P888	EW22	Montgomery County, MD	L. 52970 F. 444	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P098	EW31	Montgomery County, MD	L. 34912 F. 616	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P065	EW31	Montgomery County, MD	L. 34912 F. 616	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
3	P257	EW31	Watkins, William K. & B. L.	L. 3919 F. 862	11610 Piedmont Rd., Clarksburg, MD. 20871	23314 Frederick Rd., Clarksburg, MD. 20871	
33	P757	EW32	Vu, Chung D. & Q. T.	L. 10438 F. 755	11700 Weller Hill Rd., Monrovia, MD. 21770	23529 Frederick Rd., Clarksburg, MD. 20871	
35	P730	EW22	Baron Investment Services, LLC	L. 49239 F. 422	12827 Gorman Circle, Boyds, MD. 20841	23543 Frederick Rd., Clarksburg, MD. 20871	
10	P155	EW31	Mullen, Laura L., Etal.	L. 27578 F. 715	1300 Coral Sea Dr., Rockville, MD. 20851	Frederick Rd., Clarksburg, MD. 20871	No Address
5	P228	EW31	Gardner House, LLC	L. 45846 F. 425	1402 Meadowsweet Dr., Sandy Spring, MD. 20860	23330 Frederick Rd., Clarksburg, MD. 20871	
14	P921	EW32	Musser, Lawrence H., Jr., Etal.	L. 15634 F. 644	17120 Longdraft Rd., Gaithersburg, MD. 20878	23506 Frederick Rd., Clarksburg, MD. 20871	
26	P009	EW31	Woojung, Inc	L. 33170 F. 277	18020 Coachmans Rd., Germantown, MD. 20874	Frederick Rd., Clarksburg, MD. 20871	No Address
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36	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Frederick Rd., Clarksburg, MD. 20879	No Address
	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Snowden Farm Pkwy., Clarksburg, MD. 20879	No Address
20	N200	EW31	Buffington Enterprises II, LLC	No Deed Ref	21020 Layton Ridge Rd., Laytonsville, MD. 20882	23315 Frederick Rd., Clarksburg, MD. 20871	
21	P177	EW31	Modjarrad, Amir H., Etal.	L. 24057 F. 61	22222 Creekview Dr., Gaithersburg, MD. 20882	23321 Frederick Rd., Clarksburg, MD. 20871	
7	P153	EW31	Deren, LLC	L. 53331 F. 162	22505 Gateway Center Dr., Clarksburg, MD. 20871	23346 Frederick Rd., Clarksburg, MD. 20871	
25	P120	EW31	Espinoza, Albert M. & Dawn M.	L. 19746 F. 291	22800 W Harris Rd., Dickerson, MD. 20842	23345 Frederick Rd., Clarksburg, MD. 20871	
11	P115	EW31	Cooley, Bonnie W. & J. F.	L. 13354 F. 247	23320 Clarksburg Rd., Clarksburg, MD. 20871	23320 Clarksburg Rd., Clarksburg, MD. 20871	
6	P206	EW31	Randall, Albert B. & L. M.	L. 7817 F. 230	23340 Frederick Rd., Clarksburg, MD. 20871	23340 Frederick Rd., Clarksburg, MD. 20871	
24	P121	EW31	Espinoza, Al	L. 51974 F. 29	23343 Frederick Rd., Clarksburg, MD. 20871	Frederick Rd., Clarksburg, MD. 20871	No Address
8	P152	EW31	Zepeda-Barrera, Clarissa & Amadeo Zepeda	L. 48842 F. 190	23356 Frederick Rd., Clarksburg, MD. 20871	23356 Frederick Rd., Clarksburg, MD. 20871	
9	P117	EW31	Amaya, Julio C. & R. L.	L. 16278 F. 8	23360 Frederick Rd., Clarksburg, MD. 20871	23360 Frederick Rd., Clarksburg, MD. 20871	
23	P150	EW31	Nijau, Joseph	L. 46628 F. 392	23450 Tailor Shop Pl., Clarksburg, MD. 20871	23341 Frederick Rd., Clarksburg, MD. 20871	
13	P975	EW32	L H Musser & Sons, Inc.	L. 21016 F. 666	23506 Frederick Rd., Clarksburg, MD. 20871	23500 Frederick Rd., Clarksburg, MD. 20871	
32	P811	EW32	Le, Duy Cong	L. 35777 F. 102	23521 Frederick Rd., Clarksburg, MD. 20871	23521 Frederick Rd., Clarksburg, MD. 20871	
	P759	EW32	Le, Duy Cong	No Deed Ref	23521 Frederick Rd., Clarksburg, MD. 20871	Frederick Rd., Clarksburg, MD. 20871	No Address
16	P840	EW22	Jackson, Troy & Debra	L. 51650 F. 147	23530 Frederick Rd., Clarksburg, MD. 20871	23530 Frederick Rd., Clarksburg, MD. 20871	
34	P785	EW22	Puckett, John C. & M. E.	L. 10958 F. 160	23535 Frederick Rd., Clarksburg, MD. 20871	23535 Frederick Rd., Clarksburg, MD. 20871	
17	P788	EW22	Culbertson, Colleen L.	L. 36261 F. 1	23540 Frederick Rd., Clarksburg, MD. 20871	23540 Frederick Rd., Clarksburg, MD. 20871	



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	P176	EW31	Aries Investment Group, LLC	L. 29511 F. 579	267 Kentlands Blvd., #1024, Gaithersburg, MD. 20878	23329 Frederick Rd., Clarksburg, MD. 20871	
22	P203	EW31	Aries Investment Group, LLC	L. 29511 F. 579	267 Kentlands Blvd., #1024, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
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29	P912	EW32	Natelli Clarksburg, LLC	L. 21561 F. 443	506 Main St., FL 3, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
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	P913	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23421 Frederick Rd., Clarksburg, MD. 20871	
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ROAD

PROJECT No.: 214013.0010

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INDEX OF SHEETS  
SEE SHEET 2

GENERAL NOTES  
SEE SHEET 3

# MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MD 355 - CLARKSBURG SHARED USE PATH

STA. 495+29 TO STA. 531+37

C. I. P. PROJECT NO. 501744

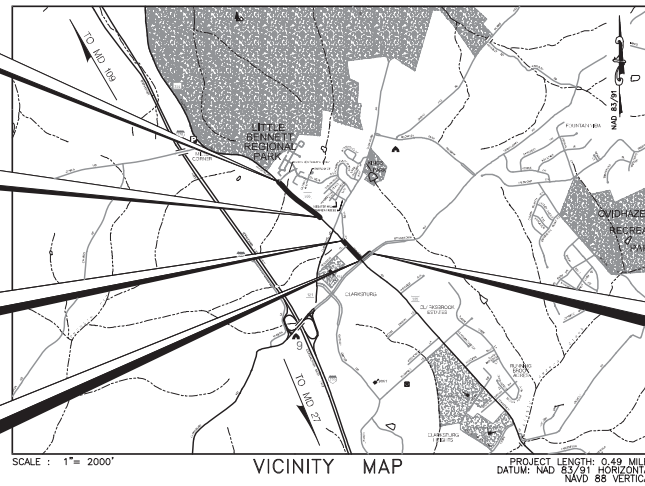
UPDATED 90% SUBMITTAL

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 (FREDERICK ROAD)  
STA. 531+37

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 (FREDERICK ROAD)  
STA. 515+21 ■  
C.I.P. PROJECT NO. 508000  
CLARKSBURG ROAD  
STA. 515+21

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 (FREDERICK ROAD)  
STA. 503+64 ■  
C.I.P. PROJECT NO. 508000  
CLARKSBURG ROAD  
STA. 503+64

**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
MD 355 (FREDERICK ROAD)  
SHARED USE PATH  
STA. 495+29



**LIMIT OF WORK**  
C.I.P. PROJECT NO. 501744  
STRINGTOWN ROAD  
STA. 703+11

PLAN LOCATION OF SOIL BORING

## OWNER'S / DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

## DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE OF AND TRANSPORTATION "DRAINAGE DESIGN" DATED NOVEMBER, 2013 (REV. JUNE 10, 2014) REGULATIONS 5-90., 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT

SOIL BORING LOG SUMMARY SHEETS ARE INCLUDED IN THE INVITATION FOR BIDS BOOK.

**ATTENTION**  
THIS IS WITHIN THE ENVIRONMENTALLY SENSITIVE CLARKSBURG SPECIAL PROTECTION AREA.  
TO PROTECT THE QUALITY OF THE CLARKSBURG SPECIAL PROTECTION AREA, THE DEPARTMENT OF TRANSPORTATION HAS DEVELOPED A REGULATORY FRAMEWORK TO PROTECT THE CLARKSBURG SPECIAL PROTECTION AREA.  
IT IS THE POLICY OF THE DEPARTMENT OF TRANSPORTATION TO PROTECT THE CLARKSBURG SPECIAL PROTECTION AREA.  
AND THE DEPARTMENT OF TRANSPORTATION WILL ASSURE YOU ARE DEVELOPING A REGULATORY FRAMEWORK TO PROTECT THE CLARKSBURG SPECIAL PROTECTION AREA.  
"LET'S WORK TOGETHER TO KEEP IT CLEAN"  
ACKNOWLEDGED: TIMOTHY H. CUPPLES, P.E.  
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A LAWS LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 31487, EXPIRATION DATE: 03/18/2021

MARK J. BODMANN, P.E. DATE

## CERTIFICATION OF QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 7305 CUBIC YARDS OF EXCAVATION AND 400 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXXX SQUARE FEET.

**MONTGOMERY COUNTY DOT MAINTENANCE CERTIFICATION**  
I HEREBY CERTIFY THAT THE DEPARTMENT OF TRANSPORTATION WILL ASSUME MAINTENANCE RESPONSIBILITIES FOR ALL STORMWATER MANAGEMENT FACILITIES AS LISTED AND SHOWN, HEREON, IN ACCORDANCE WITH THE MEMORANDUM OF UNDERSTANDING BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED SEPTEMBER 1, 1986. IF, FOR ANY REASON, FUTURE IMPROVEMENTS TO THE ROADWAY ARE PLANNED THAT WOULD IMPACT ANY OF THE STORMWATER MANAGEMENT FACILITIES INCLUDED HEREIN, THIS DEPARTMENT WILL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DURING THE PLANNING OR EARLY DESIGN STAGE OF SUCH IMPROVEMENTS.

TIMOTHY H. CUPPLES, P.E.  
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL:  
Chief, Design Section  
APPROVED  
Chief, Division of Engineering Services  
Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

**TITLE SHEET**  
**MD 355 - CLARKSBURG  
SHARED USE PATH**

SCALE: NO SCALE  
Project No.: C.I.P. PR. # 501744 SHEET 01 of 88

**WALLACE MONTGOMERY**  
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100 EDISON PARK DR., 4TH FLOOR  
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FOR ALL CONSTRUCTION WITHIN THE STATE OF MD RIGHT-OF-WAY THE CONTRACTOR SHALL REFER TO THE SHA BOOK OF STANDARDS WHICH CAN BE ACCESSED AT:  
HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHA/8125TDSPECS/DESMANUALSTOPUB/PUBLICATIONSONLINE/OHD/BOOKSTD/INDEX/ASP.

THE FOLLOWING LIST OF STANDARDS SHALL BE USED WITHIN THIS PROJECT:  
STD. NO.

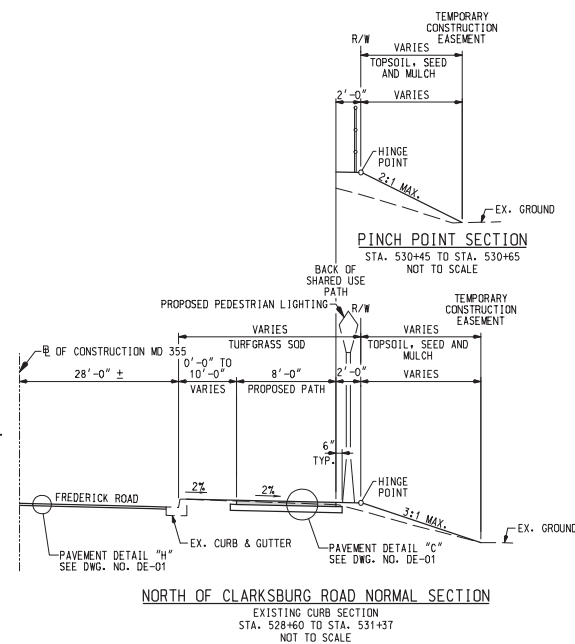
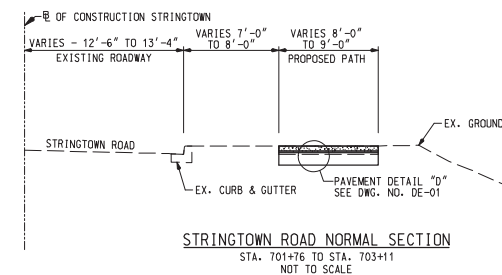
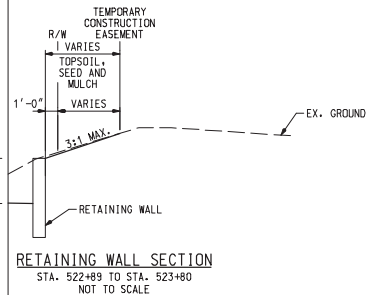
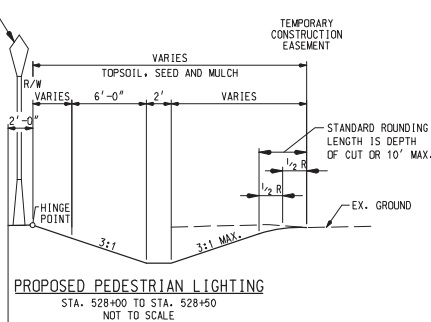
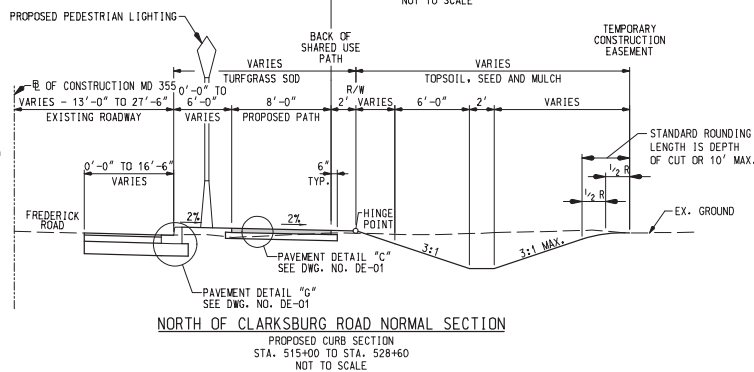
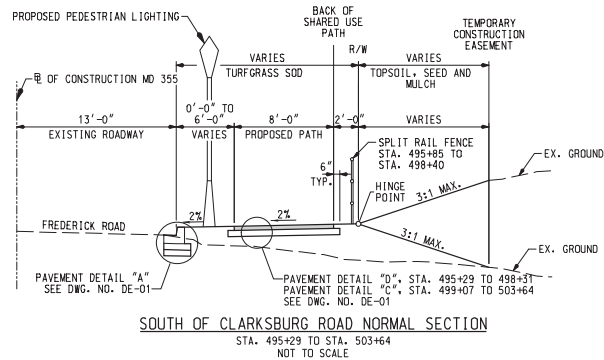
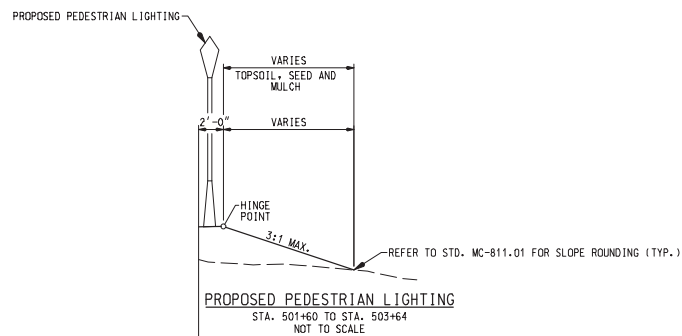
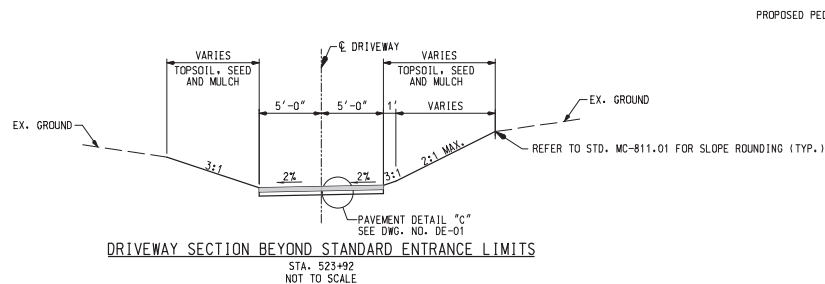
MD 362.01	STANDARD TYPE H ENDWALL METAL OR CONCRETE ROUND PIPE
MD 368.01	STANDARD CONCRETE END SECTION ROUND CONCRETE PIPE
MD 374.51	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15' & 20'
MD 374.55	PRECAST CONCRETE INLET SLABS AND ADJUSTMENT COLLARS FOR COG AND COS INLETS
MD 374.61	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COS INLETS 5', 10', 15' & 20'
MD 374.68	PRECAST OR CAST-IN-PLACE COG/COS OPENING FOR 8" CURB 5' OR 10' ONLY
MD 378.03	STANDARD SINGLE OR DOUBLE OPENING TYPE K INLET OPEN-END GRATE NON-TRAFFIC AREAS
MD 383.00	48" SQUARE STANDARD SHALLOW MANHOLE
MD 578.01	REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES
MD 580.03	NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT
MD 580.08	DRIVEWAYS AND BIKE PATHS PAVEMENT SECTIONS
MD 620.02	STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
MD 620.03	DEPRESSED CURB FOR COMBINATION CURB AND GUTTER AND DEPRESSED CURB FOR SIDEWALK RAMPS
MD 630.02	STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL & COMMERCIAL METHOD NO. 2
MD 635.01	MAILBOX PLACEMENT DETAILS
MD 655.11	SIDEWALK RAMPS PERPENDICULAR
MD 655.40	DETECTABLE WARNING SURFACES
MD 657.00	STANDARD STAIRWAYS
MC 811.01	METHODS OF GRADING SIDE SLOPES
SUP-FR(FN)-301	CHAIN LINK SAFETY FENCE-RETAINING WALLS AND BOX CULVERTS GENERAL NOTES
SUP-FR(FN)-302	TYPE III CHAIN LINK SAFETY FENCE-RETAINING WALLS AND BOX CULVERTS
REBAR-BL-101	BAR LAP DIMENSIONS FOR GRADE 60 REINFORCING STEEL IN MIX NO. 3 (3500 P.S.I.) CONCRETE
REBAR-DL-101	DEVELOPMENT LENGTH DIMENSIONS GRADE 60 REINFORCING STEEL IN MIX NO. 3 (3500 P.S.I.) CONCRETE
REBAR-BB-101	BAR BEND TYPES
REBAR-BB-102	REINFORCING STEEL HOOK TABLES AND DIAGRAMMS
RW-301	RETAINING WALL AND WING WALL DRAINAGE SYSTEMS

NOTE: ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

## UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL		 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878		<b>PLAN SHEET INDX-01 INDEX OF SHEETS MD 355 - CLARKSBURG SHARED USE PATH</b>	
RECOMMENDED FOR APPROVAL		CHM, Design Section		Date	
APPROVED		CHM, Division of Engineering Services		Date	
Designed by: J.D.W.		Drawn by: J.D.W.		Checked by: S.R.R.	
Project No.: C.L.P. PR. # 501744		SHEET		02 of 88	





NORTH OF CLARKSBURG ROAD NORMAL SECTION  
EXISTING CURB SECTION  
STA. 528+60 TO STA. 531+37  
NOT TO SCALE

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

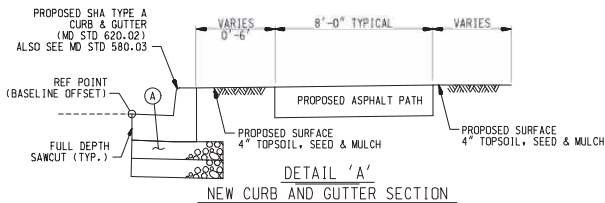
CHM, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

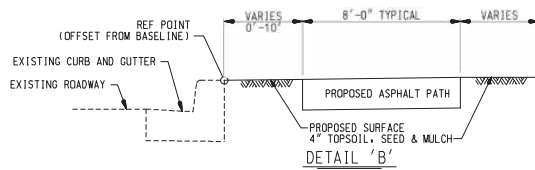
FILED: 08/02/2020 3:00 PM Highway Code\_Ver11-001 MD355.dgn

**PLAN SHEET TS-01  
TYPICAL SECTIONS  
MD 355 - CLARKSBURG  
SHARED USE PATH**

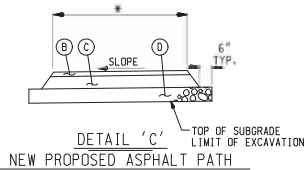
SCALE: N.T.S. 08/2020  
Project No.: C.L.P. PR. # 501744 SHEET 04 of 88



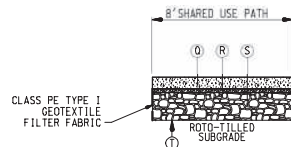
DETAIL 'A'  
NEW CURB AND GUTTER SECTION  
NOT TO SCALE  
① 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)  
(INCIDENTAL TO C&G PAYMENT)



DETAIL 'B'  
EXISTING CURBED SECTION  
NOT TO SCALE



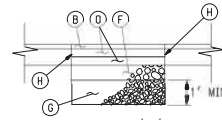
DETAIL 'C'  
NEW PROPOSED ASPHALT PATH  
NOT TO SCALE  
① 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2  
② 3.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2  
③ 4.0" GRADED AGGREGATE BASE COURSE  
④ 8'-0" FOR SHARED USE PATH, 10'-0" AND VARIES FOR DRIVEWAYS



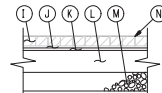
DETAIL 'D'  
PERMEABLE PAVEMENT - SHARED USE PATH  
NOT TO SCALE  
① 5.0" PERVIOUS CONCRETE SIDEWALK  
② 1.5" AASHTO NO. 8 CHOKER STONE COURSE  
③ 12.0" WASHED AASHTO NO. 2 AGGREGATE RESERVOIR  
④ LIMITS OF EXCAVATION (NO GEOTEXTILE)  
⑤ ROTO-TILL SUBGRADE PRIOR TO INSTALLATION

PERVIOUS CONCRETE SIDEWALK NOTES:

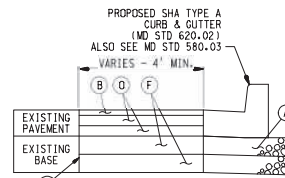
1. CONTRACTOR SHALL INSTALL PERVIOUS CONCRETE SIDEWALK PER SPECIFICATIONS.
2. REFER TO SECTION 902 OF MDT SHA STANDARD SPECIFICATIONS, JULY 2019 OR LATEST VERSION, FOR PERVIOUS CONCRETE.
3. SUBGRADE MUST BE LEVEL. ROTO-TILL SUBGRADE PRIOR TO INSTALLATION. INSTALL STEPS AS NEEDED TO MAINTAIN MINIMUM 6 INCHES OF AGGREGATE.
4. CONSTRUCTION SPECIFICATIONS SHALL MEET MDE STORMWATER DESIGN MANUAL APPENDIX B-4.



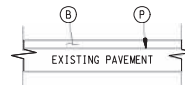
DETAIL 'E'  
REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES  
NOT TO SCALE  
① 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2  
② 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2  
③ 6.0" GRADED AGGREGATE BASE COURSE  
④ NO. 57 AGGREGATE  
⑤ FULL DEPTH SAWCUT (TYP.)



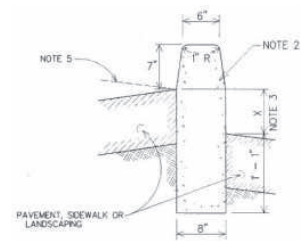
DETAIL 'F'  
BRICK DRIVEWAY FOR ENTRANCE AT STA. 498+69  
NOT TO SCALE  
① 4"x8"x2 1/4" MIN. BRICK PAVERS WITH HAND TIGHT JOINTS AND 3:1 SAND CEMENT SWEEP  
② ADHESIVE COAT - NEOPRENE MODIFIED ASPHALT PRIME/COAT - LOW VISCOSITY LIQUID ASPHALT  
③ 3/4" BITUMINOUS SETTING BED (ADJUST THICKNESS IF PAYER THICKNESS VARIES)  
④ 7" POURED CONCRETE BASE, 3500 PSI, 6"x8"x2.1x2.1 WELDED WIRE CONTINUOUS WITHIN SLAB  
⑤ 6.0" DENSE GRADED AGGREGATE BASE COURSE  
⑥ FINISH GRADE OF PAVEMENT



DETAIL 'G'  
SHA TYPICAL PAVEMENT  
NOT TO SCALE  
① 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)  
(INCIDENTAL TO C&G PAYMENT)  
② 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2  
③ 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2  
④ 6.0" GRADED AGGREGATE BASE COURSE  
⑤ FULL DEPTH SAWCUT (TYP.)

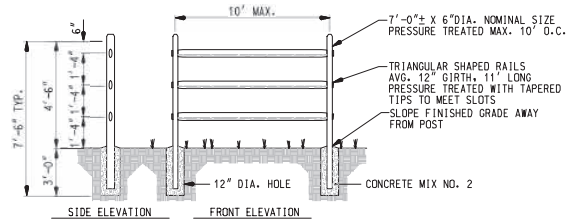


DETAIL 'H'  
SHA FINE MILLING AND OVERLAY  
NOT TO SCALE  
① 2.0" SUPERPAVE ASPHALT MIX 9.5mm  
② TOP OF EXISTING PAVEMENT AFTER 2.0" FINE MILLING



BARRIER CURB DETAIL  
NOT TO SCALE  
1. CURB & GUTTER TO BE USED WHERE STORM WATER WILL COLLECT AT FACE OF CURB EXCEPT AS DIRECTED BY THE ENGINEER.  
2. MIX #2 OR MIX #8 CONCRETE AS DIRECTED ON PLANS.  
3. SPECIAL DESIGN AS RETAINING WALL WHERE THIS DIMENSION EXCEEDS 18 INCHES. THIS BARRIER IS FOR USE ONLY IN OFF-STREET AREAS WHERE VEHICLE SPEEDS ARE MINIMAL.

- DETAIL 'F' NOTES
1. PAVERS SHALL BE WATSONTOWN "GARDEN BLEND" OR APPROVED EQUAL, CLASS SX, TYPE 1, HAVE A COMPRESSIVE STRENGTH OF 10,000 PSI FOR ANY FIVE BLOCK TESTED, SHALL BE CAPABLE OF WITHSTANDING A MIN. OF 100 FREEZE-THAW CYCLES, HAVE AN AVERAGE WATER ABSORPTION RATE OF 4% OR LESS, AND SHALL CONFORM TO ASTM DESIGNATION OF C-902.
  2. THE BITUMINOUS SETTING SHALL CONSIST OF HOT MIX ASPHALT SUPERPAVE 4.75 MM FOR SURFACE PG58-28 CONFORMING TO AASHTO DESIGNATION M-320.
  3. A TACK COAT OF 2% NEOPRENE-MODIFIED ASPHALT ADHESIVE SHALL BE USED.
  4. JOINT FILLER SHALL BE ONE PART PORTLAND CEMENT MIXED WITH THREE PARTS SAND.
  5. THE 28 DAY COMPRESSIVE STRENGTH FOR THE CONCRETE SUBBASE SHALL BE 3500 PSI.
  6. PROVIDE 1/2" EXPANSION JOINT WHERE BRICK ABUTS A RIGID STRUCTURE.
  7. REFER TO MARYLAND SHA SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.



SPLIT RAIL FENCE DETAIL  
NOT TO SCALE

UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL	DATE
CHM, Design Section	
APPROVED	
CHM, Division of Engineering Services	
DESIGNED BY: J.D.W.	DRAWN BY: J.D.W.
CHECKED BY: S.R.R.	

PLAN SHEET DE-01  
PAVEMENT DETAILS  
MD 355 - CLARKSBURG  
SHARED USE PATH

SCALE: NOT TO SCALE  
08/2020  
Project No.: C.I.P. PR. # S01744 SHEET 05 of 88



PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-01	495+29.11	21.33 RT.	661.41	
PS-01	495+47.30	13.91 RT.	660.85	
PS-01	495+50.00	14.27 RT.	660.79	
PS-01	495+55.28	13.67 RT.	660.61	
PS-01	495+75.00	13.67 RT.	659.59	
PS-01	496+00.00	13.67 RT.	659.27	
PS-01	496+25.00	13.67 RT.	658.54	
PS-01	496+50.00	13.67 RT.	657.88	
PS-01	497+00.00	13.67 RT.	657.28	
PS-01	497+25.00	13.67 RT.	657.35	
PS-01	497+50.00	13.67 RT.	657.51	
PS-01	497+75.00	13.67 RT.	657.76	
PS-01	498+00.00	13.67 RT.	658.06	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-05	519+00.00	13.67 RT.	653.33	
PS-05	519+25.00	13.67 RT.	653.54	
PS-05	519+50.00	13.67 RT.	653.79	
PS-05	519+75.00	13.67 RT.	654.16	
PS-05	520+00.00	13.67 RT.	654.53	
PS-05	520+25.00	13.67 RT.	654.84	
PS-05	520+50.00	13.67 RT.	655.44	
PS-05	521+00.00	13.67 RT.	655.91	
PS-05	521+25.00	13.67 RT.	656.06	
PS-05	521+50.00	13.67 RT.	657.60	
PS-05	521+75.00	13.67 RT.	658.02	
PS-05	521+99.54	13.67 RT.	658.24	
PS-05	522+00.00	13.67 RT.	658.39	
PS-05	522+06.46	13.67 RT.	658.45	HIGH POINT
PS-05	522+25.00	13.67 RT.	658.45	
PS-05	522+50.00	13.67 RT.	658.26	
PS-05	522+75.00	13.67 RT.	657.44	
PS-05	522+96.54	13.67 RT.	657.23	MIDPOINT OF CURVE
PS-05	523+00.00	13.67 RT.	657.33	
PS-05	523+25.00	13.67 RT.	656.19	
PS-05	523+50.00	13.67 RT.	654.85	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-01	495+34.50	37.62 RT.	661.53	
PS-01	495+36.63	36.12 RT.	661.46	
PS-01	495+50.00	29.44 RT.	661.03	
PS-01	495+50.32	29.33 RT.	661.03	MIDPOINT OF CURVE
PS-01	495+65.42	27.00 RT.	660.57	
PS-01	495+69.10	27.00 RT.	660.46	
PS-01	495+73.79	26.00 RT.	660.33	MIDPOINT OF CURVE
PS-01	495+75.00	27.42 RT.	660.29	
PS-01	495+78.43	28.05 RT.	660.20	
PS-01	495+84.83	29.13 RT.	660.03	
PS-01	495+91.32	25.50 RT.	659.84	
PS-01	495+94.19	25.50 RT.	659.76	
PS-01	496+00.00	29.21 RT.	659.58	MIDPOINT OF CURVE
PS-01	496+00.67	29.13 RT.	660.33	
PS-01	496+07.08	28.05 RT.	659.35	
PS-01	496+11.71	27.26 RT.	659.20	MIDPOINT OF CURVE
PS-01	496+16.41	27.00 RT.	659.06	
PS-01	496+25.00	27.00 RT.	658.80	
PS-01	496+48.73	27.00 RT.	658.17	
PS-01	496+50.00	26.98 RT.	658.14	
PS-01	496+58.20	26.27 RT.	657.93	
PS-01	496+67.42	23.91 RT.	657.74	
PS-01	496+74.09	22.29 RT.	657.61	
PS-01	496+75.00	22.09 RT.	657.60	
PS-01	496+80.95	20.77 RT.	657.50	
PS-01	497+00.00	21.87 RT.	657.44	
PS-01	497+25.00	21.67 RT.	657.51	
PS-01	497+50.00	21.67 RT.	657.66	
PS-01	497+75.00	21.67 RT.	657.92	
PS-01	497+93.83	21.67 RT.	658.13	
PS-01	498+00.00	22.12 RT.	658.23	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-06	523+50.00	13.67 RT.	654.85	
PS-06	523+75.00	13.67 RT.	653.54	
PS-06	524+00.00	13.67 RT.	652.24	
PS-06	524+03.43	13.67 RT.	652.06	
PS-06	524+25.00	13.67 RT.	650.69	
PS-06	524+50.00	13.67 RT.	649.13	
PS-06	524+74.96	25.80 RT.	647.53	
PS-06	524+96.16	26.34 RT.	646.19	MIDPOINT OF CURVE
PS-06	525+00.00	26.61 RT.	645.92	
PS-06	525+17.52	29.17 RT.	644.89	
PS-06	525+25.00	29.17 RT.	644.46	
PS-06	525+50.00	29.17 RT.	643.00	
PS-06	525+75.00	29.17 RT.	641.41	
PS-06	526+00.00	29.17 RT.	639.89	
PS-06	526+02.75	29.17 RT.	639.71	MIDPOINT OF CURVE
PS-06	526+25.00	29.17 RT.	638.32	
PS-06	526+50.00	29.17 RT.	636.82	
PS-06	526+75.00	29.17 RT.	635.32	
PS-06	526+87.99	29.17 RT.	634.35	
PS-06	527+00.00	29.17 RT.	634.03	
PS-06	527+10.04	29.17 RT.	633.61	
PS-06	527+15.04	28.84 RT.	633.41	MATCH EXISTING

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-02	498+00.00	22.12 RT.	658.23	MIDPOINT OF CURVE
PS-02	498+01.31	22.34 RT.	658.26	
PS-02	498+08.54	24.33 RT.	658.40	
PS-02	498+18.53	27.07 RT.	658.61	MIDPOINT OF CURVE
PS-02	498+25.00	27.87 RT.	658.72	
PS-02	498+28.86	28.00 RT.	658.78	
PS-02	498+32.22	28.00 RT.	658.81	
PS-02	498+36.06	27.87 RT.	658.89	MIDPOINT OF CURVE
PS-02	498+39.88	27.49 RT.	658.77	
PS-02	498+40.80	27.37 RT.	658.71	
PS-02	498+43.22	27.12 RT.	658.50	MIDPOINT OF CURVE
PS-02	498+46.36	27.00 RT.	658.40	
PS-02	498+50.00	27.00 RT.	658.48	
PS-02	498+55.47	27.00 RT.	658.59	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-07	528+36.00	28.87 RT.	629.82	MATCH EXISTING
PS-07	528+50.00	28.30 RT.	629.57	
PS-07	528+75.00	27.44 RT.	629.19	
PS-07	529+00.00	26.52 RT.	628.94	
PS-07	529+13.77	26.01 RT.	628.83	
PS-07	529+19.72	25.99 RT.	628.80	MIDPOINT OF CURVE
PS-07	529+25.00	26.31 RT.	628.77	
PS-07	529+25.67	26.37 RT.	628.76	
PS-07	529+48.00	28.57 RT.	628.56	MIDPOINT OF CURVE
PS-07	529+50.00	28.69 RT.	628.55	
PS-07	529+51.69	28.78 RT.	628.51	
PS-07	529+54.02	28.80 RT.	628.52	MATCH EXISTING

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-02	498+82.59	26.00 RT.	659.35	
PS-02	499+00.00	26.00 RT.	660.03	
PS-02	499+25.00	26.00 RT.	660.77	
PS-02	499+31.82	26.00 RT.	660.94	
PS-02	499+39.98	25.35 RT.	661.12	MIDPOINT OF CURVE
PS-02	499+47.93	23.84 RT.	661.28	
PS-02	499+50.00	22.83 RT.	661.32	MIDPOINT OF CURVE
PS-02	499+53.44	22.11 RT.	661.38	
PS-02	499+59.09	21.87 RT.	661.49	
PS-02	499+62.79	21.87 RT.	661.57	MIDPOINT OF CURVE
PS-02	499+68.44	22.11 RT.	661.71	
PS-02	499+73.95	23.44 RT.	661.86	
PS-02	499+75.00	23.77 RT.	661.88	
PS-02	499+81.90	25.35 RT.	662.05	MIDPOINT OF CURVE
PS-02	499+90.06	26.00 RT.	662.22	
PS-02	500+00.00	26.00 RT.	662.42	
PS-02	500+25.00	26.00 RT.	663.02	
PS-02	500+50.00	26.00 RT.	663.66	
PS-02	500+75.00	26.00 RT.	663.95	
PS-02	501+00.00	26.00 RT.	663.84	
PS-02	501+25.00	26.00 RT.	663.41	
PS-02	501+25.94	26.00 RT.	663.31	MIDPOINT OF CURVE
PS-02	501+36.55	30.39 RT.	663.68	
PS-02	501+40.94	41.00 RT.	664.13	
PS-02	501+40.94	44.00 RT.	664.20	
PS-02	501+39.17	26.00 RT.	663.30	
PS-02	501+48.09	26.00 RT.	663.96	

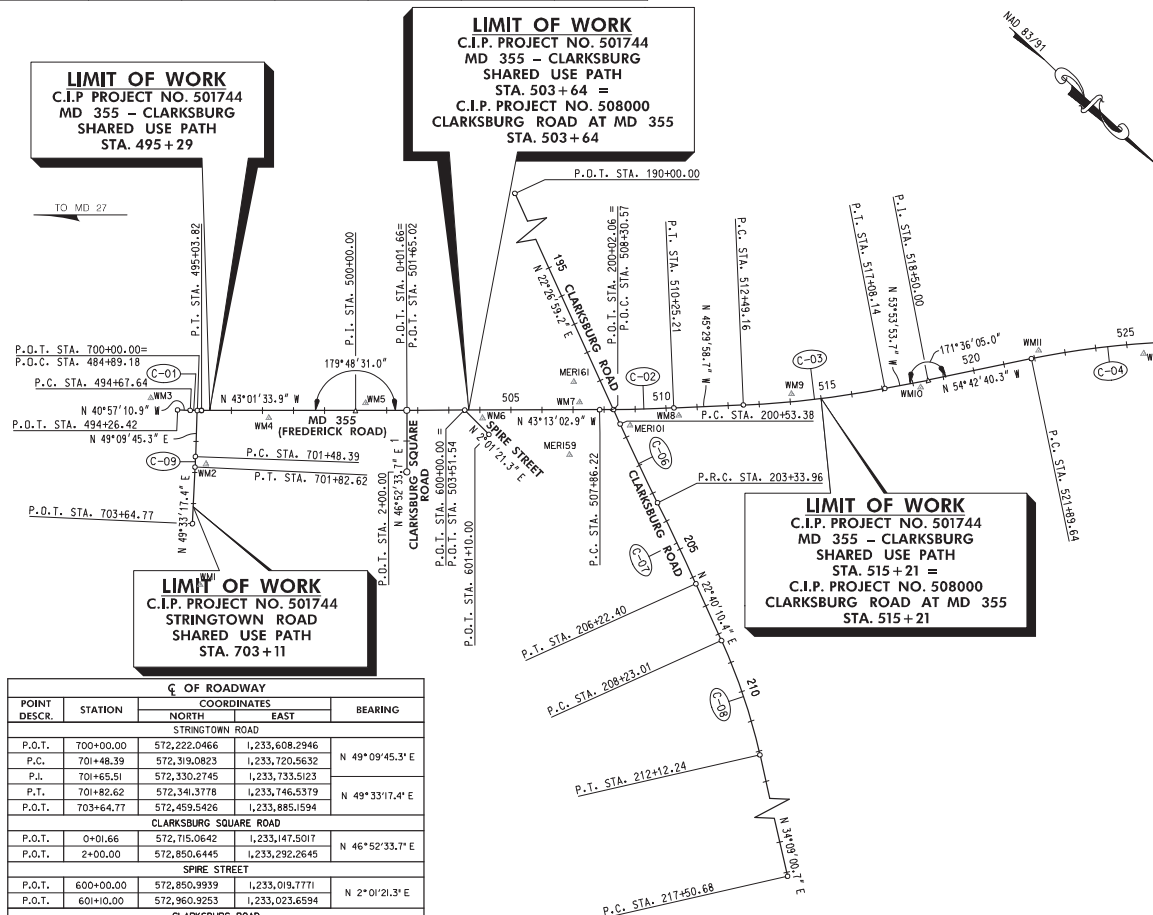
PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-03	501+81.78	26.00 RT.	662.00	
PS-03	501+90.73	26.00 RT.	662.19	
PS-03	501+88.94	44.00 RT.	664.20	
PS-03	501+88.94	41.00 RT.	663.99	
PS-03	501+93.34	30.40 RT.	662.88	MIDPOINT OF CURVE
PS-03	502+00.00	26.53 RT.	662.24	
PS-03	502+03.96	26.00 RT.	661.95	
PS-03	502+25.00	26.00 RT.	661.38	
PS-03	502+50.00	26.00 RT.	661.38	
PS-03	502+75.00	26.00 RT.	660.58	
PS-03	503+00.00	26.00 RT.	659.67	
PS-03	503+25.00	26.00 RT.	658.70	
PS-03	503+50.00	26.00 RT.	656.92	
PS-03	503+62.30	26.00 RT.	656.25	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-06	523+50.00	24.00 RT.	655.07	
PS-06	523+75.00	24.00 RT.	653.70	
PS-06	523+80.32	24.00 RT.	653.05	
PS-06	523+86.13	24.27 RT.	652.74	MIDPOINT OF CURVE
PS-06	523+91.89	25.08 RT.	652.43	
PS-06	524+00.00	26.59 RT.	651.98	
PS-06	524+25.00	26.59 RT.	651.67	
PS-06	524+43.44	34.26 RT.	649.28	
PS-06	524+50.00	35.71 RT.	648.85	
PS-06	524+51.19	36.06 RT.	648.77	MIDPOINT OF CURVE
PS-06	524+58.67	38.78 RT.	648.26	
PS-06	524+75.00	44.37 RT.	647.16	MIDPOINT OF CURVE
PS-06	524+79.54	45.42 RT.	646.86	
PS-06	525+00.00	47.66 RT.	645.54	
PS-06	525+01.39	47.67 RT.	645.45	
PS-06	525+25.00	47.67 RT.	644.09	
PS-06	525+50.00	47.67 RT.	642.63	
PS-06	525+75.00	47.67 RT.	641.04	
PS-06	525+94.69	47.67 RT.	639.84	MIDPOINT OF CURVE
PS-06	526+00.00	47.67 RT.	639.52	
PS-06	526+25.00	47.67 RT.	637.95	
PS-06	526+50.00	47.67 RT.	636.46	
PS-06	526+75.00	47.67 RT.	634.95	
PS-06	526+87.99	47.67 RT.	634.18	
PS-06	527+00.00	47.67 RT.	633.66	
PS-06	527+25.00	47.67 RT.	632.61	
PS-06	527+50.00	47.67 RT.	631.79	
PS-06	527+75.00	47.67 RT.	631.02	
PS-06	527+95.30	47.67 RT.	630.61	
PS-06	527+95.30	47.67 RT.	630.43	MIDPOINT OF CURVE
PS-06	528+00.00	46.81 RT.	630.33	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-07	528+00.00	46.81 RT.	630.33	
PS-07	528+01.68	46.44 RT.	630.29	
PS-07	528+25.00	41.96 RT.	629.80	
PS-07	528+45.04	38.11 RT.	629.46	
PS-07	528+50.00	37.16 RT.	629.39	
PS-07	528+50.61	37.44 RT.	629.39	
PS-07	528+55.15	36.35 RT.	629.33	MIDPOINT OF CURVE
PS-07	528+59.73	36.00 RT.	629.26	
PS-07	528+75.00	35.44 RT.	629.03	
PS-07	529+00.00	34.52 RT.	628.78	
PS-07	529+14.06	34.01 RT.	628.67	
PS-07	529+19.48	33.99 RT.	628.64	MIDPOINT OF CURVE
PS-07	529+25.00	34.34 RT.	628.61	
PS-07	529+47.66	36.54 RT.	628.41	
PS-07	529+50.00	36.73 RT.	628.39	
PS-07	529+51.16	36.79 RT.	628.38	MIDPOINT OF CURVE
PS-07	529+54.66	36.86 RT.	628.36	
PS-07	529+55.00	36.78 RT.	628.47	
PS-07	529+79.58	36.76 RT.	628.50	MIDPOINT OF CURVE
PS-07	530+00.00	36.76 RT.	628.68	
PS-07	530+13.37	36.96 RT.	628.96	
PS-07	530+24.21	37.46 RT.	629.18	MIDPOINT OF CURVE
PS-07	530+25.00	37.44 RT.	629.20	
PS-07	530+34.70	40.36 RT.	629.34	
PS-07	530+50.00	44.22 RT.	629.70	
PS-07	530+51.53	44.40 RT.	629.75	MIDPOINT OF CURVE
PS-07	530+68.81	44.05 RT.	630.27	
PS-07	530+75.00	43.47 RT.	630.49	
PS-07	530+84.65	43.01 RT.	630.86	MIDPOINT OF CURVE
PS-07	531+00.00	47.58 RT.	631.12	
PS-07	531+01.81	48.78 RT.	631.28	
PS-07	531+25.00	54.83 RT.	631.67	MIDPOINT OF CURVE
PS-07	531+25.00	54.83 RT.	631.98	
PS-07	531+28.92	55.01 RT.	632.12	

CURVE DATA							
CURVE	BASILINE	DELTA	Dc	RADIUS	TANGENT	LENGTH	CHORD
C-01	MD 355 (FREDERICK ROAD)	2°04'23.0" L.T.	5°43'55.1"	1,000.00'	18.09'	36.18'	0.16'
C-02	MD 355 (FREDERICK ROAD)	2°16'55.8" L.T.	0°57'17.8"	6,000.00'	119.51'	238.97'	1.19'
C-03	MD 355 (FREDERICK ROAD)	8°23'55.0" L.T.	1°49'47.7"	3,131.21'	229.30'	458.98'	8.43'
C-04	MD 355 (FREDERICK ROAD)	10°44'32.5" RT.	2°09'20.6"	2,658.00'	249.91'	497.62'	11.72'
C-05	MD 355 (FREDERICK ROAD)	2°40'43.8" L.T.	1°12'24.3"	4,748.00'	111.02'	221.99'	1.30'
C-06	CLARKSBURG ROAD	1°50'45.7" L.T.	0°39'28.6"	8,708.41'	140.30'	280.58'	1.13'
C-07	CLARKSBURG ROAD	2°03'56.9" RT.	0°42'58.3"	8,000.00'	144.24'	288.44'	1.30'
C-08	CLARKSBURG ROAD	11°28'50.3" RT.	2°56'58.6"	1,942.49'	196.27'	388.58'	9.79'
C-09	STRINGTOWN ROAD	0°23'32.1" RT.	1°08'45.3"	5,000.00'	17.12'	34.23'	0.03'

POINT NO.	COORDINATES		ELEVATION	DESCRIPTION
	NORTH	EAST		
WM1	572,612.1750	1,234,012.7190	647.365	REBAR & CAP
WM2	572,360.6198	1,233,715.0813	656.216	REBAR & CAP
WM3	572,085.4874	1,233,681.0420	669.500	REBAR & CAP
WM4	572,406.9292	1,233,468.6510	655.793	REBAR & CAP
WM5	572,601.9950	1,232,221.1993	663.426	REBAR & CAP
WM6	572,910.5108	1,232,999.3619	656.127	REBAR & CAP
WM7	573,103.5557	1,232,748.6685	640.521	REBAR & CAP
WM8	573,366.8426	1,232,561.8287	647.495	REBAR & CAP
WM9	573,584.3873	1,232,263.1441	666.701	REBAR & CAP
WM10	573,813.8993	1,231,964.4479	652.919	MAG NAIL
WM11	574,010.6313	1,231,618.4007	658.264	REBAR & CAP
WM12	574,324.7651	1,231,395.1298	642.679	REBAR & CAP
WM13	574,539.8173	1,231,088.9347	626.893	REBAR & CAP
WM14	574,798.7957	1,230,928.3124	636.191	REBAR & CAP
WM15	575,173.2046	1,231,345.2351	657.911	REBAR & CAP
MER101	573,234.1295	1,232,692.8439	640.58	
MER159	573,195.9319	1,232,895.0696	651.80	
MER161	573,045.9194	1,232,713.7816	635.25	



C OF ROADWAY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
STRINGTOWN ROAD				
P.O.T.	700+00.00	572,222.0466	1,233,608.2946	
P.C.	701+48.39	572,319.0823	1,233,720.5632	N 49°09'45.3" E
P.L.	701+65.51	572,330.2745	1,233,733.5123	
P.T.	701+82.62	572,341.3778	1,233,746.5379	N 49°33'17.4" E
P.O.T.	703+64.77	572,459.5426	1,233,885.1594	
CLARKSBURG SQUARE ROAD				
P.O.T.	0+01.66	572,715.0642	1,233,147.5017	N 46°52'33.7" E
P.O.T.	2+00.00	572,850.6445	1,233,292.2645	
SPIRE STREET				
P.O.T.	600+00.00	572,850.9939	1,233,019.7771	
P.O.T.	601+00.00	572,960.9253	1,233,023.6594	N 2°01'21.3" E
CLARKSBURG ROAD				
P.O.T.	190+00.00	572,273.8601	1,232,308.9732	
P.O.T.	200+02.06	573,199.9788	1,232,691.6332	N 22°26'59.2" E
P.C.	200+53.38	573,247.4101	1,232,711.2315	
P.L.	201+93.68	573,377.0795	1,232,764.8088	
P.R.C.	203+33.96	573,508.4065	1,232,814.1812	N 20°36'13.5" E
P.L.	204+78.20	573,643.4176	1,232,864.9386	
P.T.	206+22.40	573,776.5112	1,232,920.5298	N 22°40'10.4" E
P.C.	208+23.01	573,961.6211	1,232,997.8474	
P.L.	210+81.28	574,141.8028	1,233,073.0666	
P.T.	212+12.24	574,303.4002	1,233,182.7229	N 34°09'00.7" E
P.C.	217+50.68	573,748.9952	1,233,484.9832	

C OF ROADWAY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
		MD 355 (FREDERICK ROAD)		
P.O.T.	494+26.42	572,174.0566	1,233,650.2792	
P.C.	494+67.64	572,205.1882	1,233,623.2616	N 40°57'10.9" W
P.L.	494+85.73	572,218.8527	1,233,611.4029	
P.T.	495+03.82	572,232.0793	1,233,599.0577	N 43°01'33.9" W
P.L.	500+00.00	572,594.8068	1,233,260.4999	
P.O.T.	501+65.02	572,715.0642	1,233,147.5017	
P.O.T.	503+51.54	572,850.9939	1,233,019.7771	
P.C.	507+86.22	573,167.7764	1,232,722.1166	N 43°13'02.9" W
P.O.C.	508+30.57	573,199.9788	1,232,691.6332	
P.L.	509+05.73	573,254.8699	1,232,640.2803	
P.T.	510+25.21	573,338.6356	1,232,555.0408	
P.C.	512+49.16	573,495.6056	1,232,395.3090	N 45°29'58.7" W
P.L.	514+79.06	573,656.7479	1,232,231.3315	
P.T.	517+08.14	573,792.2117	1,232,045.5762	N 53°53'53.7" W
P.L.	518+50.00	573,875.7952	1,231,930.9620	
P.C.	521+89.64	574,072.0056	1,231,653.7294	N 54°42'40.3" W
P.L.	524+39.55	574,216.3760	1,231,449.7432	
P.T.	526+87.93	574,396.2380	1,231,276.2415	
P.C.	529+95.26	574,617.3863	1,231,062.9135	N 43°58'07.8" W
P.L.	531+06.28	574,697.2867	1,230,985.8387	
P.T.	532+17.25	574,773.4974	1,230,905.1137	N 46°38'51.6" W
P.O.T.	533+75.17	574,881.9025	1,230,790.2813	



UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAD 88 VERTICAL

NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL

DATE

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

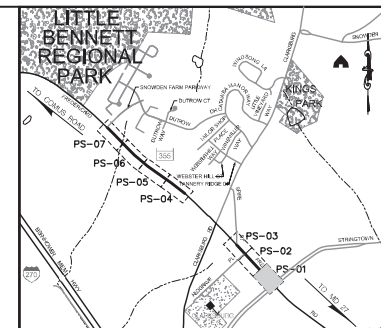
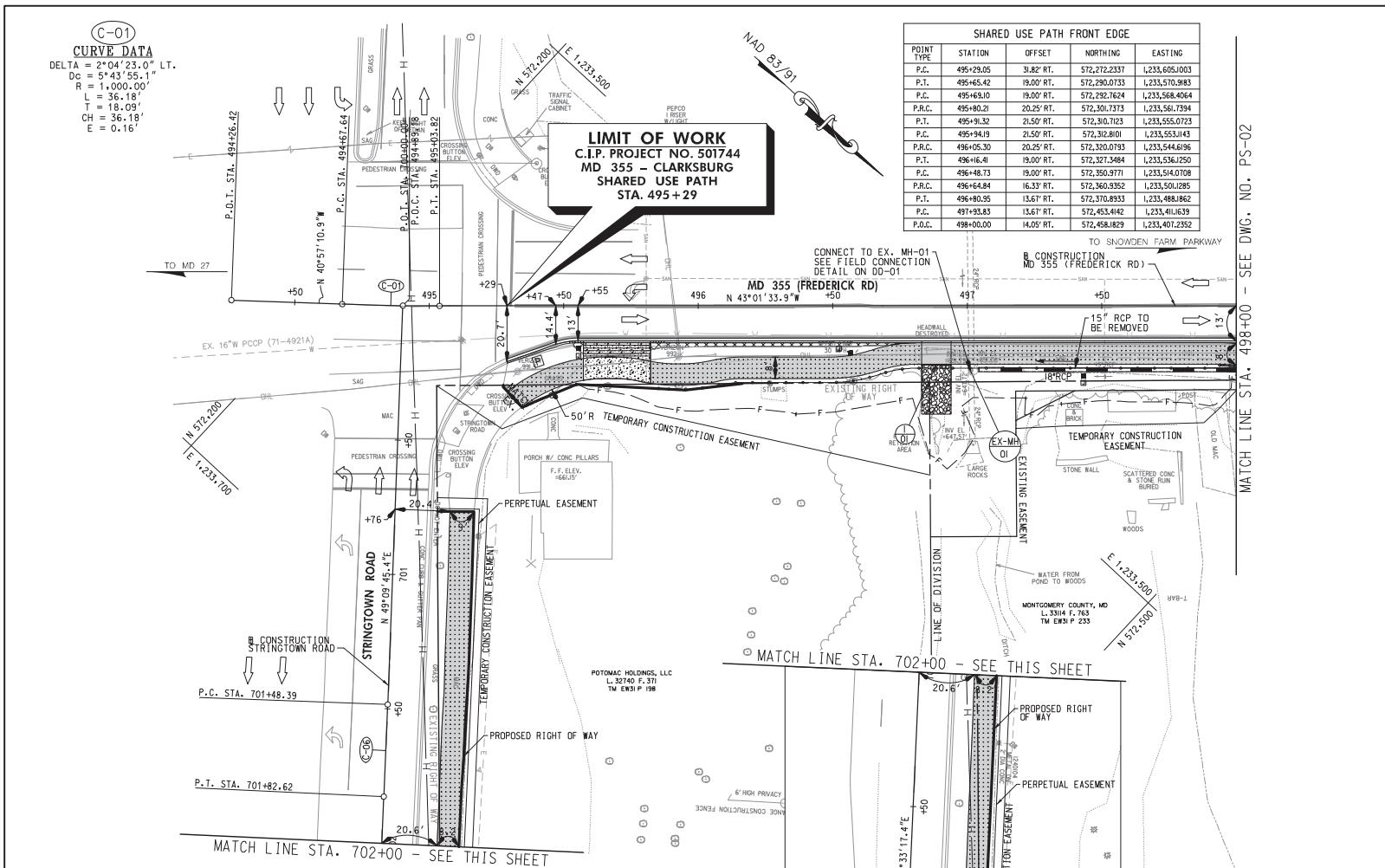
DATE

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

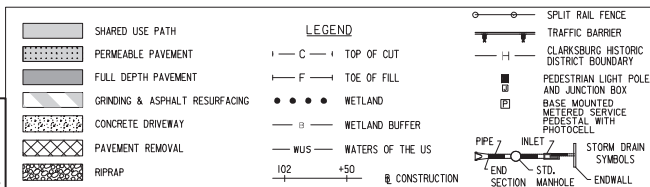
PLAN SHEET GS-01  
GEOMETRY LAYOUT  
MD 355 - CLARKSBURG  
SHARED USE PATH

SCALE: 1" = 200'

Project No.: C.I.P. PR. # 501744 SHEET 07 of 88



- NOTES:**  
 1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.  
 2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104-02-01 THRU MD 104-02-10.  
 3. ALL INTERIOR RIGHT-OF-WAY SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.  
 4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.



**WALLACE MONTGOMERY**  
 ENGINEERING - PLANNING - SURVEYING  
 10150 York Road, Suite 200  
 Hunt Valley, Maryland 21039  
 410.284.0000 FAX 410.287.0105  
 www.wallacemontgomery.com

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

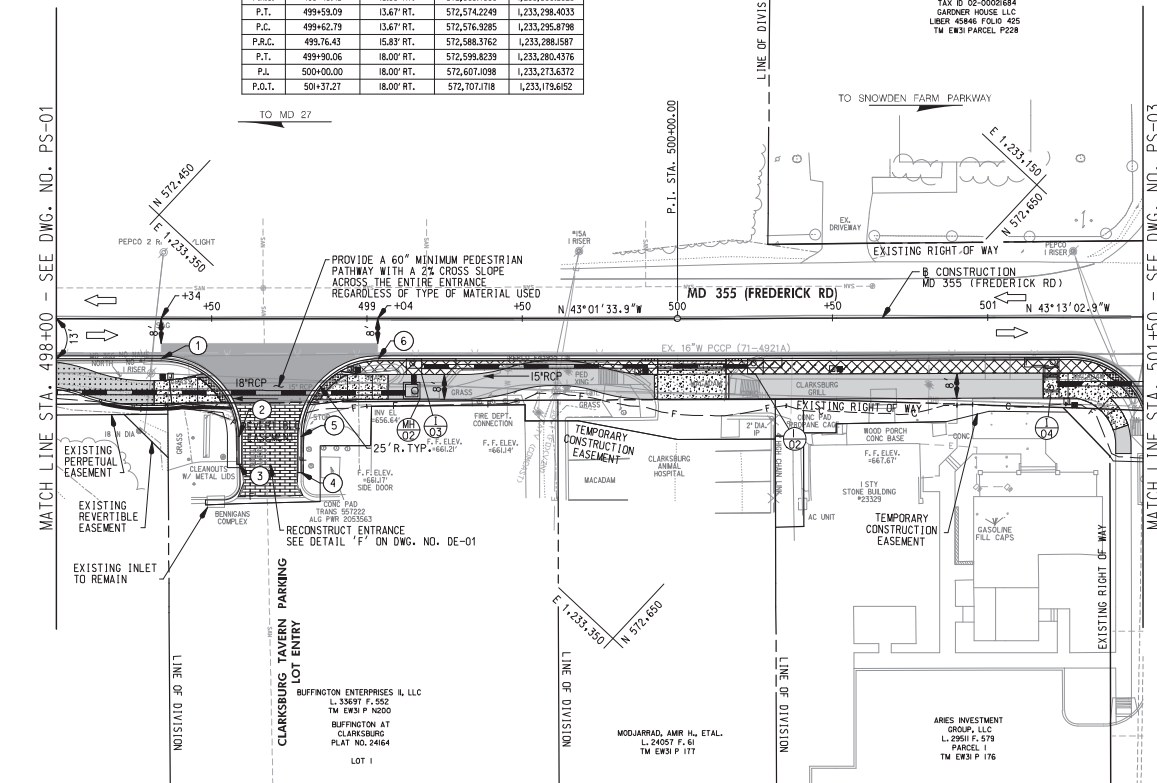
**PLAN SHEET PS-01**  
**ROADWAY PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**STA. 495+29 TO STA. 498+00**  
 SCALE 1"=20'



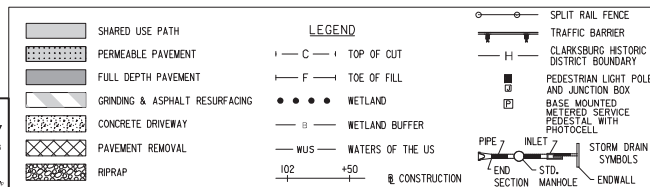
CLARKSBURG TAVERN'S ENTRANCE WORKING POINTS				
CONTROL POINT	STATION	NORTHING	EASTING	OFFSET
1	498+33.76	572,482.1489	1,233,383.4319	13.00' RT.
2	498+58.76	572,517.4833	1,233,384.6497	38.00' RT.
3	498+78.76	572,523.6301	1,233,391.2354	47.00' RT.
4	498+78.76	572,540.0332	1,233,379.4982	45.62' RT.
5	498+78.76	572,532.1042	1,233,371.0031	38.00' RT.
6	499+03.76	572,533.3220	1,233,335.6687	13.00' RT.

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	498+00.00	14.05' RT.	572,458.1829	1,233,407.2352
P.R.C.	498+01.34	16.83' RT.	572,483.3364	1,233,401.5304
P.T.	498+28.86	20.00' RT.	572,483.3384	1,233,391.8970
P.C.	498+32.22	20.00' RT.	572,485.7967	1,233,389.6026
P.T.	498+38.83	19.56' RT.	572,490.3283	1,233,384.7730
P.C.	498+39.75	19.44' RT.	572,490.9178	1,233,384.0548
P.T.	498+45.51	19.01' RT.	572,494.8371	1,233,379.8064
P.O.T.	498+93.82	18.00' RT.	572,529.4680	1,233,346.1054
P.C.	499+31.82	18.00' RT.	572,557.2429	1,233,320.1813
P.R.C.	499+45.45	15.83' RT.	572,565.7339	1,233,309.2923
P.T.	499+55.09	13.67' RT.	572,574.2249	1,233,298.4033
P.C.	499+62.79	13.67' RT.	572,576.3285	1,233,295.8798
P.R.C.	499+76.43	15.83' RT.	572,588.3762	1,233,288.1587
P.T.	499+80.06	18.00' RT.	572,599.8239	1,233,280.4376
P.J.	500+00.00	18.00' RT.	572,607.1098	1,233,273.6372
P.O.T.	500+37.27	18.00' RT.	572,707.7718	1,233,179.6152

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
WATER LINE (WSSC)	498+21 TO 500+57	11' RT. TO 11' RT.	WSSC WORK WILL BE DONE UNDER SAME CONTRACT
WATER VALVE (WSSC)	499+45	15' RT.	
WATER HOUSE CONNECTION (WSSC)	499+55	15' RT.	
FIRE HYDRANT (WSSC)	499+65	18' RT.	
WATER HOUSE CONNECTION (WSSC)	500+36	18' RT.	
CURB STOP (WSSC)	500+80	21' RT.	



- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
  3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.



#### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL

DATE

CHM, Design Section

APPROVED

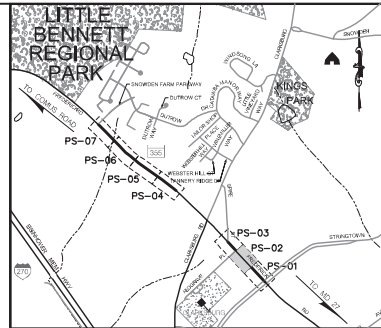
DATE

CHM, Division of Engineering Services

DATE

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

Project No.: C.L.P. PR. # 301744 SHEET 09 of 88



#### LOCATION MAP

SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

82 L.F. MD 355 (FREDERICK ROAD) - STA. 498+00 TO STA. 498+60, RT.  
303 L.F. MD 355 (FREDERICK ROAD) - STA. 498+78 TO STA. 501+50, RT.

REMOVAL OF EXISTING PAVEMENT

7 C.Y. MD 355 (FREDERICK ROAD) - STA. 498+92 TO STA. 499+59  
3 C.Y. MD 355 (FREDERICK ROAD) - STA. 499+63 TO STA. 499+94  
19 C.Y. MD 355 (FREDERICK ROAD) - STA. 500+16 TO STA. 501+41

DETECTABLE WARNING SURFACE FOR CURB  
RAMPS (MD 655.40)

22 S.F. MD 355 (FREDERICK ROAD) - STA. 498+53, RT.  
23 S.F. MD 355 (FREDERICK ROAD) - STA. 498+86, RT.  
23 S.F. MD 355 (FREDERICK ROAD) - STA. 501+45, RT.

SIDEWALK RAMP CONSTRUCTION

MD 355 (FREDERICK ROAD) - STA. 498+53, RT. MD 655.JI  
MD 355 (FREDERICK ROAD) - STA. 498+86, RT. MD 655.JI  
MD 355 (FREDERICK ROAD) - STA. 501+45, RT. MD 655.JI

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT  
FOR DRIVEWAY MIX NO. 9 (MD 630.02)

32 S.Y. MD 355 (FREDERICK ROAD) - STA. 499+94 TO STA. 500+16, RT.

BARRIER CURB (SEE DWG. NO. TS-01)

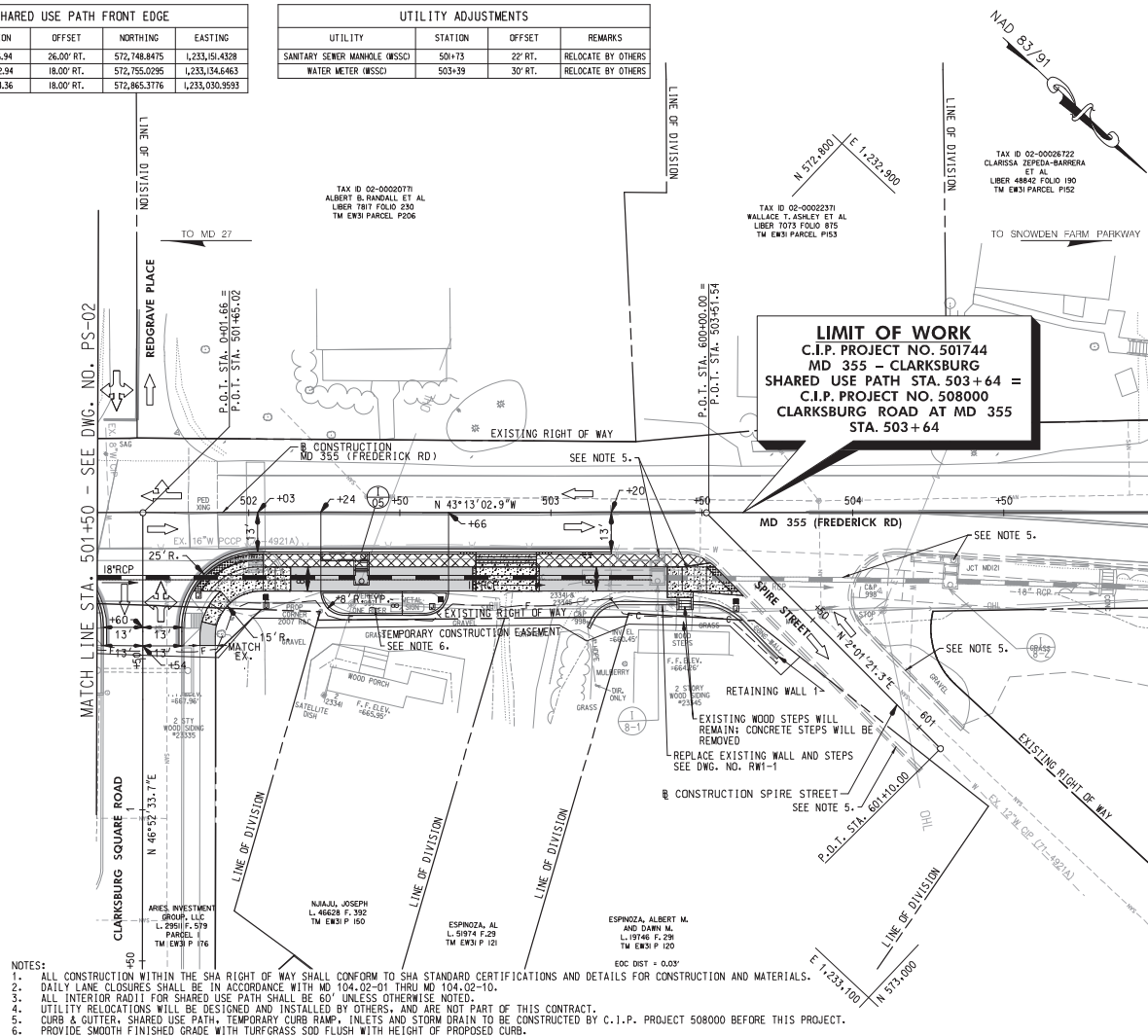
44 L.F. MD 355 (FREDERICK ROAD) - STA. 498+00 TO STA. 498+44, RT.

PLAN SHEET PS-02  
ROADWAY PLANS  
MD 355 - CLARKSBURG  
SHARED USE PATH  
STA. 498+00 TO STA. 501+50

SCALE 1"=20'

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	501+86.94	26.00' RT.	572,748.8475	1,233,151.4328
P.T.	502+02.94	18.00' RT.	572,755.0295	1,233,134.6463
P.O.T.	503+54.36	18.00' RT.	572,865.3776	1,233,030.9593

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
SANITARY SEWER MANHOLE (WSSC)	501+73	22' RT.	RELOCATE BY OTHERS
WATER METER (WSSC)	503+39	30' RT.	RELOCATE BY OTHERS



- NOTES:
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  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
  3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
  5. CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
  6. PROVIDE SMOOTH FINISHED GRADE WITH TURFGRASS SO FLOOD WITH HEIGHT OF PROPOSED CURB.

SHARED USE PATH

PERMEABLE PAVEMENT

FULL DEPTH PAVEMENT

GRINDING & ASPHALT RESURFACING

CONCRETE DRIVEWAY

PAVEMENT REMOVAL

RIIRAP

LEGEND

C

TOP OF CUT

F

TOE OF FILL

WETLAND

WETLAND BUFFER

WUS

WATERS OF THE US

CONSTRUCTION

PIPE

INLET

STD.

MANHOLE

ENDWALL

SPLIT RAIL FENCE

TRAFFIC BARRIER

CLARKSBURG HISTORIC DISTRICT BOUNDARY

PEDESTRIAN LIGHT POLE AND JUNCTION BOX

BASE MOUNTED METEDED SERVICE PEDESTAL WITH PHOTOCELL

### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY

DEPARTMENT OF TRANSPORTATION

100 EDISON PARK DRIVE, 4TH FLOOR

GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

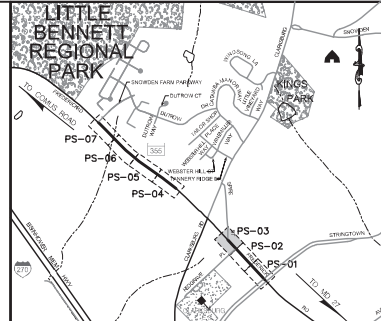
Designed by: J.D.W.

Drawn by: J.D.W.

Checked by: S.R.R.

## PLAN SHEET PS-03 ROADWAY PLANS MD 355 - CLARKSBURG SHARED USE PATH STA. 501+50 TO STA. 505+00

SCALE: 1"=20'  
08/2020



STANDARD TYPE A COMBINATION CURB AND GUTTER,  
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

16 L.F. MD 355 (FREDERICK ROAD) - STA. 501+50 TO STA. 501+52, RT.  
162 L.F. MD 355 (FREDERICK ROAD) - STA. 501+78 TO STA. 503+20, RT.

STANDARD TYPE 'A' CURB (MD 620.02)

94 L.F. MD 355 (FREDERICK ROAD) - STA. 502+24 TO STA. 502+66, RT.

REMOVAL OF EXISTING PAVEMENT

11 C.Y. MD 355 (FREDERICK ROAD) - STA. 502+05 TO STA. 502+75, RT.  
9 C.Y. MD 355 (FREDERICK ROAD) - STA. 502+95 TO STA. 503+50, RT.

DETECTABLE WARNING SURFACE FOR CURB RAMPS  
(MD 655.40)

52 S.F. MD 355 (FREDERICK ROAD) - STA. 501+32, RT.  
23 S.F. MD 355 (FREDERICK ROAD) - STA. 503+58, RT.

SIDEWALK RAMP CONSTRUCTION  
(MD 655.40)

MD 355 (FREDERICK ROAD) - STA. 501+92, RT. MD 655J3  
MD 355 (FREDERICK ROAD) - STA. 503+58, RT. MD 655J1

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT  
FOR DRIVEWAY MIX NO. 9 (MD 630.02)

30 S.Y. MD 355 (FREDERICK ROAD) - STA. 502+75 TO STA. 502+95, RT.

RELOCATE MAILBOX

2 EA. MD 355 (FREDERICK ROAD) - STA. 503+11, RT.

CONCRETE STEPS (MD 657.00)

1 C.Y. MD 355 (FREDERICK ROAD) - STA. 503+44, RT.



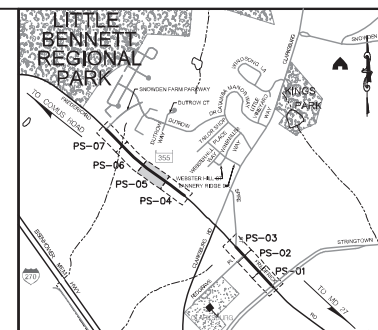
**C-04**  
**CURVE DATA**  
 DELTA = 10° 44' 32.5" RT.  
 Dc = 2° 09' 20.6"  
 R = 2,658.00'  
 L = 498.35'  
 T = 249.91'  
 CH = 497.62'  
 E = 11.72'

POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.B.T.	519+00.00	19.00' RT.	573,920.877	L231,901.249
P.C.	519+35.00	19.00' RT.	573,940.468	L231,872.474
P.R.C.	519+49.21	20.43' RT.	573,949.786	L231,861.706
P.R.C.	519+73.39	20.43' RT.	573,963.748	L231,842.053
P.T.	519+87.49	19.00' RT.	573,970.734	L231,829.700
P.C.	520+80.82	19.00' RT.	574,024.638	L231,753.028
P.R.C.	520+89.91	19.69' RT.	574,030.462	L231,746.508
P.T.	521+00.52	20.50' RT.	574,037.249	L231,738.320
P.C.	521+08.02	20.50' RT.	574,044.582	L231,732.984
P.R.C.	521+18.62	19.69' RT.	574,047.046	L231,723.070
P.T.	521+27.71	19.00' RT.	574,051.738	L231,715.258
P.C.	521+58.67	19.00' RT.	574,063.626	L231,689.981
P.R.C.	522+46.83	19.00' RT.	574,128.709	L231,626.169
P.R.C.	522+74.53	17.63' RT.	574,136.199	L231,595.870
P.C.C.	522+89.62	16.00' RT.	574,143.983	L231,582.976
P.O.C.	523+50.00	16.00' RT.	574,181.032	L231,535.727

UTILITY	STATION	OFFSET	REMARKS
FIRE HYDRANT (WSSC)	519+55	21' RT.	RELOCATE BY OTHERS
WATER HOUSE CONNECTION (WSSC)	520+25	16' RT.	RELOCATE BY OTHERS
WATER METER (WSSC)	520+25	27' RT.	RELOCATE BY OTHERS

POINT	STATION	OFFSET	ELEVATION
1	520+20	27' RT.	654.85
2	520+40	27' RT.	655.00
3	520+24	39' RT.	656.71
4	520+40	39' RT.	657.36

FOR PAVEMENT SECTION, REFER TO DETAIL 'C' ON DE-01



**LOCATION MAP**  
 SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)  
 449 L.F. MD 355 (FREDERICK ROAD) - STA. 519+00 TO STA. 523+50, RT.

**REMOVAL OF EXISTING PAVEMENT**

9 C.Y. MD 355 (FREDERICK ROAD) - STA. 519+52 TO STA. 520+14, RT.  
 1 C.Y. MD 355 (FREDERICK ROAD) - STA. 520+41 TO STA. 520+47, RT.

**8 INCH PORTLAND CEMENT CONCRETE PAVEMENT  
 FOR DRIVEWAY MIX NO. 9 (MD 630.02)**

33 S.Y. MD 355 (FREDERICK ROAD) - STA. 520+20 TO STA. 520+40, RT.  
 27 S.Y. MD 355 (FREDERICK ROAD) - STA. 522+64 TO STA. 522+84, RT.

**REMOVAL OF EXISTING MASONRY**

4 C.Y. MD 355 (FREDERICK ROAD) - STA. 521+90, RT. (STONE WALL)

**RELOCATE MAILBOX**

1 EA. MD 355 (FREDERICK ROAD) - STA. 520+44, RT.

**REMOVE EXISTING FENCE**

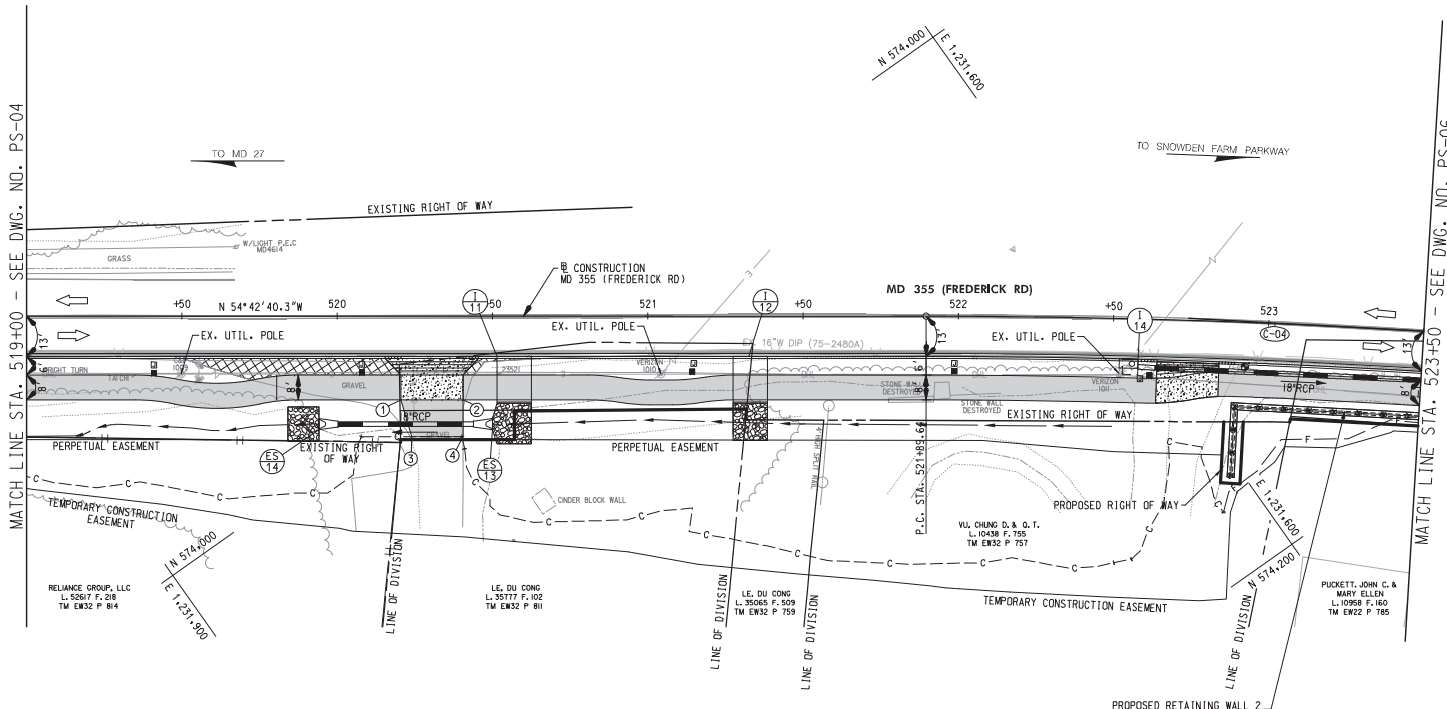
32 L.F. MD 355 (FREDERICK ROAD) - STA. 521+56 TO STA. 521+58, RT.

**CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION**

12 S.Y. MD 355 (FREDERICK ROAD) - STA. 519+49, RT.  
 16 S.Y. MD 355 (FREDERICK ROAD) - STA. 520+57, RT.  
 12 S.Y. MD 355 (FREDERICK ROAD) - STA. 521+33, RT.

MATCH LINE STA. 519+00 - SEE DWG. NO. PS-04

MATCH LINE STA. 523+50 - SEE DWG. NO. PS-06



- NOTES:**
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  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104-02-01 THRU MD 104-02-10.
  3. ALL INTERIOR RADI FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

LEGEND	
	SHARED USE PATH
	PERMEABLE PAVEMENT
	FULL DEPTH PAVEMENT
	GRINDING & ASPHALT RESURFACING
	CONCRETE DRIVEWAY
	PAVEMENT REMOVAL
	RIPPRAP
	TOP OF CUT
	TOE OF FILL
	WETLAND
	WETLAND BUFFER
	WATERS OF THE US
	CONSTRUCTION
	SPLIT RAIL FENCE
	TRAFFIC BARRIER
	CLARKSBORG HISTORIC DISTRICT BOUNDARY
	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
	BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
	STORM DRAIN SYMBOLS
	INLET
	END MANHOLE

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

DESIGNED BY: J.D.W.	DRAWN BY: J.D.W.	CHECKED BY: S.R.R.
APPROVED BY: [Signature]	DATE: [Date]	DATE: [Date]

**PLAN SHEET PS-05  
 ROADWAY PLANS  
 MD 355 - CLARKSBURG  
 SHARED USE PATH  
 STA. 519+00 TO STA. 523+50**

SCALE: 1"=20' 08/2020

Project No.: C.I.P. PR. # S01744 SHEET 12 of 88





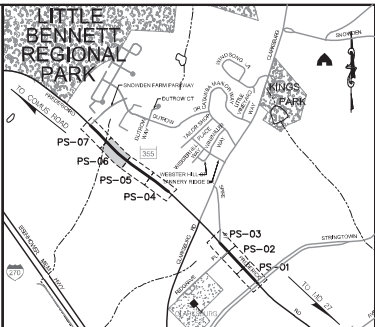
**C-04**  
**CURVE DATA**  
 DELTA = 10° 44' 32.5" RT.  
 Dc = 2° 09' 20.6"  
 R = 2,658.00'  
 L = 498.35'  
 CH = 249.91'  
 E = 11.72'

POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	523+50.00	16.00' RT.	574,181.032	1,231,535.7227
P.C.C.	523+80.32	16.00' RT.	574,200.082	1,231,512.3262
P.T.	523+93.40	17.22' RT.	574,209.2231	1,231,503.0813
P.C.	524+44.79	26.37' RT.	574,249.345	1,231,470.0806
P.R.C.	524+61.94	31.47' RT.	574,264.040	1,231,460.610
P.C.C.	525+01.39	39.67' RT.	574,296.0701	1,231,436.9404
P.T.	526+87.99	39.67' RT.	574,423.1763	1,231,304.7893
P.C.	527+88.85	39.67' RT.	574,496.3689	1,231,234.7637
P.O.C.	528+00.00	38.62' RT.	574,503.6670	1,231,226.2721

UTILITY	STATION	OFFSET	REMARKS
WATER HOUSE CONNECTION (WSSC)	523+80	12' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	524+11	21' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	524+87	28' RT.	RELOCATE BY OTHERS
UNDERGROUND FIBER OPTIC (VZ)	527+76	45' RT.	RELOCATE BY OTHERS

POINT	STATION	OFFSET	ELEVATION
1	523+87	24' RT.	653.00
2	523+97	26' RT.	652.98
3	523+89	37' RT.	655.45
4	523+99	36' RT.	655.34
5	523+90	62' RT.	660.36
6	524+00	61' RT.	661.6

FOR PAVEMENT SECTION, REFER TO DETAIL "C" ON DE-01



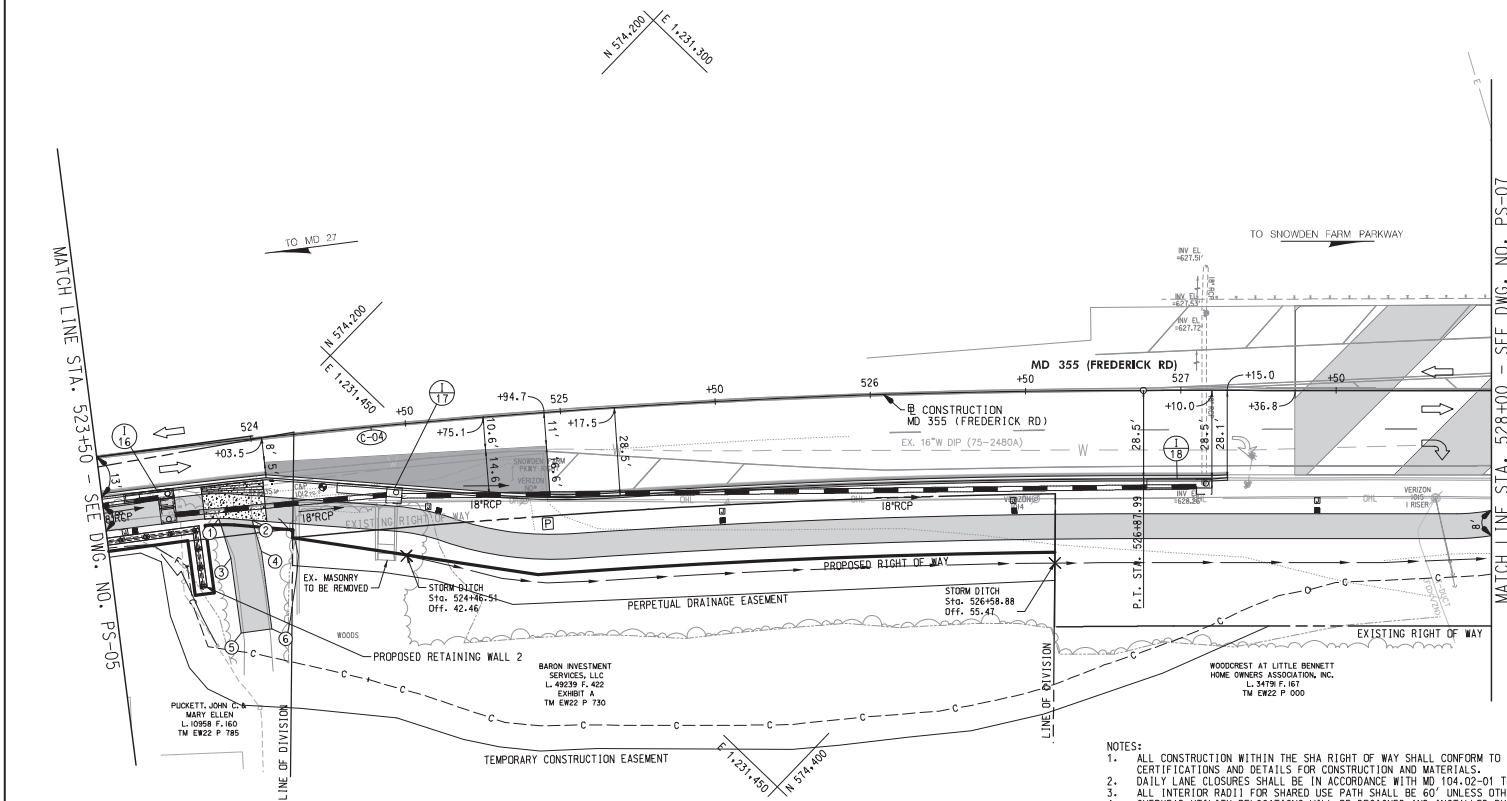
**LOCATION MAP**  
 SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)  
 364 L.F. MD 355 (FREDERICK ROAD) - STA. 523+50 TO STA. 524+02, RT.

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT  
 FOR DRIVEWAY MIX NO. 9 (MD 630.02)  
 26 S.Y. MD 355 (FREDERICK ROAD) - STA. 523+82 TO STA. 524+02, RT.

REMOVAL OF EXISTING MASONRY  
 20 C.Y. MD 355 (FREDERICK ROAD) - STA. 524+09 TO STA. 524+55, RT.  
 (STONE WALL AND STEPS)

RELOCATE MAILBOX  
 1 EA. MD 355 (FREDERICK ROAD) - STA. 524+03, RT.



- NOTES:**
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
  2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
  3. ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
  4. OVERHEAD UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS.

**LEGEND**

— C — TOP OF CUT

— F — TOE OF FILL

• • • • • WETLAND

— B — WETLAND BUFFER

— WUS — WATERS OF THE US

— +50 — CONSTRUCTION

— SPLIT RAIL FENCE

— TRAFFIC BARRIER

— CLARKSBURG HISTORIC DISTRICT BOUNDARY

— PEDESTRIAN LIGHT POLE AND JUNCTION BOX

— BASE MOUNTED METEDED SERVICE PEDESTAL WITH PHOTOCELL

— PIPE INLET

— END STD. MANHOLE

— STORM DRAIN SYMBOLS

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL

CNM, Design Section

APPROVED

CNM, Division of Engineering Services

Design by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

**PLAN SHEET PS-06**  
**ROADWAY PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**STA. 523+50 TO STA. 528+00**

SCALE: 1"=20'

Project No.: C.I.P. PR. # S01744 SHEET 13 of 88

**WALLACE MONTGOMERY**  
**Engineers-Planners-Surveyors-Construction Managers**  
 10150 York Road, Suite 200  
 Hunt Valley, Maryland 21038  
 410.436.0625 Toll 410.437.0625 Fax  
 www.wallacemontgomery.com

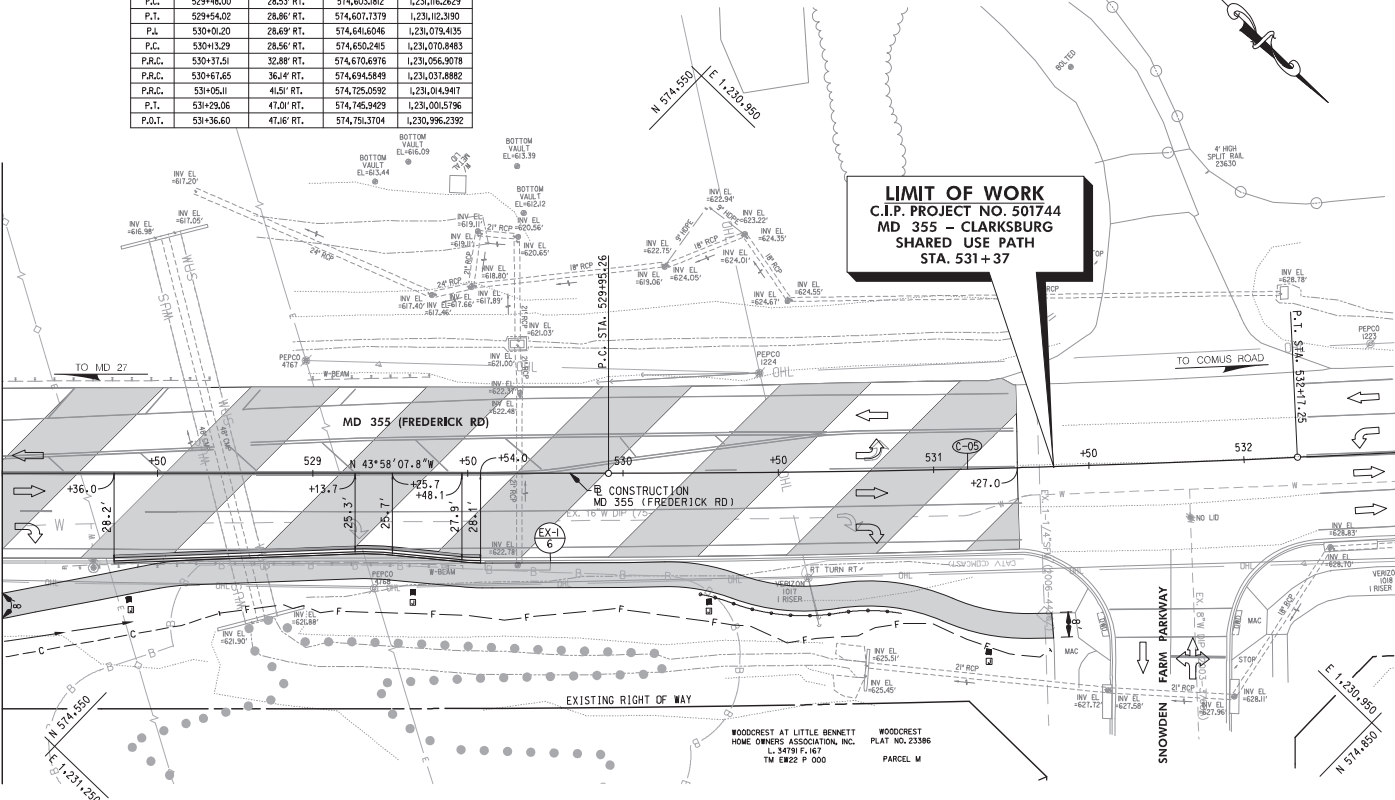
C-05

CURVE DATA

DELTA = 2°40'43.9" LT.  
Dc = 1°12'24.3"  
R = 4,748.00'  
L = 221.99'  
T = 111.02'  
CH = 221.97'  
E = 1.30'

POINT	STATION	OFFSET	NORTHING	EASTING
P.O.C.	528+00.00	38.62' RT.	574,503.6670	L231,226.2720
P.T.	528+00.71	38.59' RT.	574,503.7691	L231,226.2726
P.C.	528+49.00	29.19' RT.	574,532.4572	L231,185.3909
P.T.	528+59.44	28.01' RT.	574,539.0779	L231,177.3709
P.C.	529+13.77	26.01' RT.	574,576.7931	L231,138.2140
P.T.	529+25.67	26.37' RT.	574,585.6084	L231,130.2061
P.C.	529+48.00	28.53' RT.	574,603.8802	L231,116.2629
P.T.	529+54.02	28.86' RT.	574,607.1379	L231,112.3930
P.A.	530+01.20	28.69' RT.	574,641.6046	L231,079.4135
P.C.	530+13.29	28.56' RT.	574,650.2455	L231,070.8463
P.R.C.	530+37.51	32.88' RT.	574,670.6916	L231,056.9078
P.R.C.	530+67.65	36.4' RT.	574,694.5849	L231,037.8862
P.O.C.	530+95.00	41.51' RT.	574,725.0592	L231,014.9417
P.T.	531+29.06	47.01' RT.	574,745.9429	L231,000.5796
P.O.T.	531+36.60	47.18' RT.	574,751.3704	L231,996.2392

MATCH LINE STA. 528+00 - SEE DWG. NO. PS-06



NOTES:

1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104-02-01 THRU MD 104-02-10.
3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

SHARED USE PATH

PERMEABLE PAVEMENT

FULL DEPTH PAVEMENT

GRINDING & ASPHALT RESURFACING

CONCRETE DRIVEWAY

PAVEMENT REMOVAL

RIIRAP

LEGEND

— C — TOP OF CUT

— F — TOE OF FILL

• • • • • WETLAND

— B — WETLAND BUFFER

— WUS — WATERS OF THE US

102

CONSTRUCTION

SPLIT RAIL FENCE

TRAFFIC BARRIER

CLARKSBURG HISTORIC DISTRICT BOUNDARY

PEDESTRIAN LIGHT POLE AND JUNCTION BOX

BASE MOUNTED METEERED SERVICE PEDESTAL WITH PHOTOCELL

PIPE

INLET

END

STD.

SECTION

MANHOLE

ENDWALL

UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

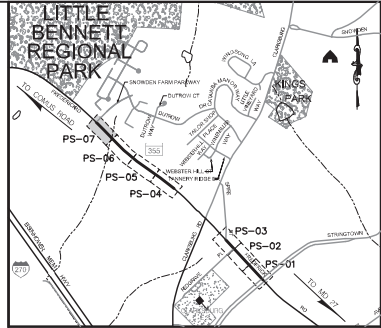
CHM, Design Section

APPROVED

CHM, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

Project No.: C.I.P. PR. # 501744 SHEET 14 of 88



LOCATION MAP

SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,  
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

119 L.F. MD 355 (FREDERICK ROAD) - STA. 528+36 TO STA. 529+48, RT.

REMOVAL AND DISPOSAL OF EXISTING TRAFFIC  
BARRIER W BEAM

134 L.F. MD 355 (FREDERICK ROAD) - STA. 528+20 TO STA. 529+48, RT.

SPLIT RAIL FENCE

66 L.F. MD 355 (FREDERICK ROAD) - STA. 530+25 TO STA. 530+89, RT.

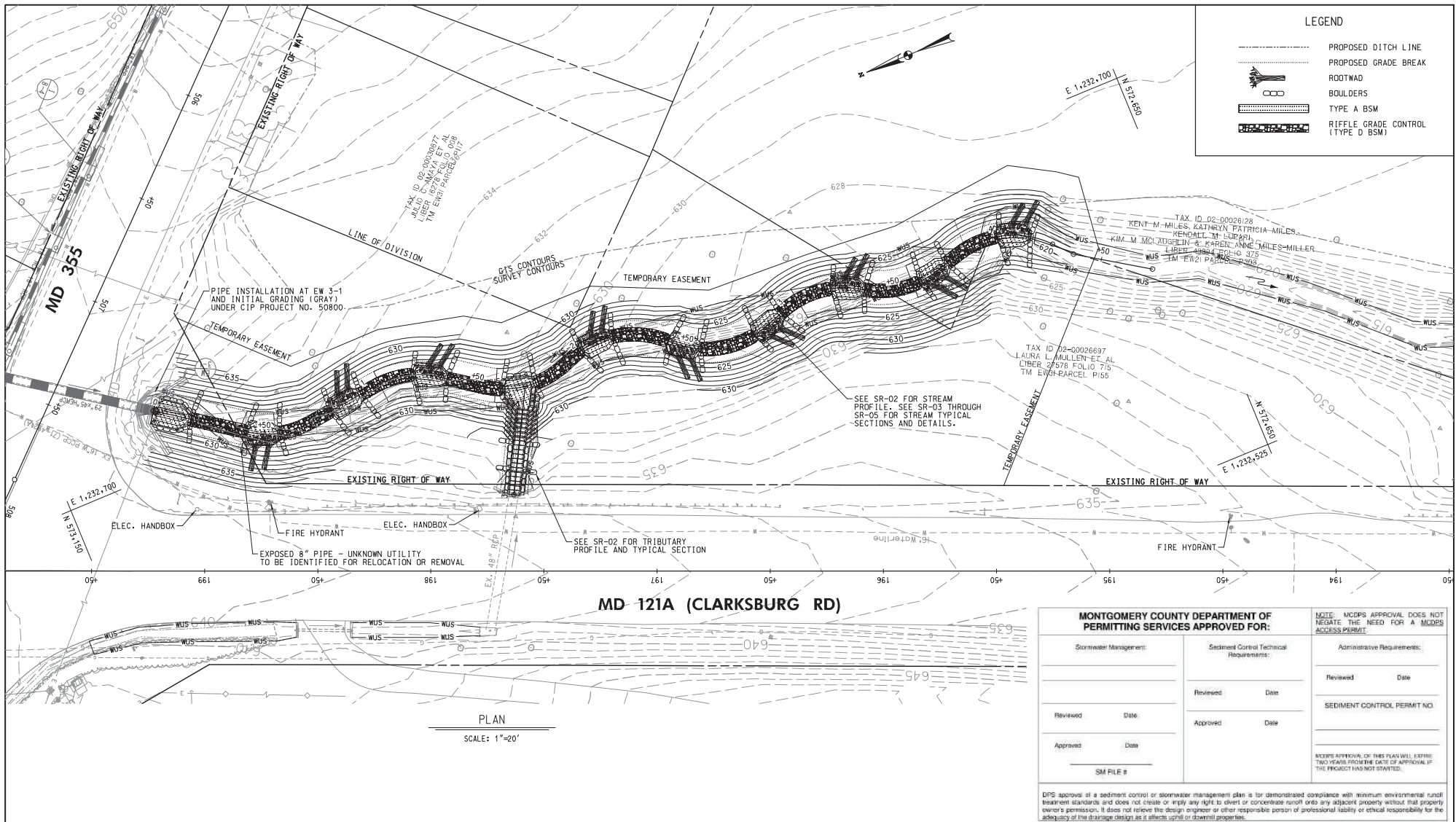
PLAN SHEET PS-07  
ROADWAY PLANS  
MD 355 - CLARKSBURG  
SHARED USE PATH  
STA. 528+00 TO STA. 531+37

SCALE: 1"=20' 08/2020

**WALLACE MONTGOMERY**  
ENGINEERING PLANNING SURVEYING CONSTRUCTION SERVICES

10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410-484-2955 Toll 410-287-0925 Fax  
www.wallacemontgomery.com





**LEGEND**

- PROPOSED DITCH LINE
- PROPOSED GRADE BREAK
- ROOTWAD
- BOULDERS
- TYPE A BSM
- RIFFLE GRADE CONTROL (TYPE D BSM)

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		
<b>Stormwater Management:</b> Reviewed: _____ Date: _____ Approved: _____ Date: _____ SM FILE # _____	<b>Sediment Control Technical Requirements:</b> Reviewed: _____ Date: _____ Approved: _____ Date: _____	<b>Administrative Requirements:</b> Reviewed: _____ Date: _____ SEDIMENT CONTROL PERMIT NO. _____ MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.

NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design, as it affects upland or downland properties.

**WALLACE MONTGOMERY**  
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS  
 10150 York Road, Suite 200  
 Hunt Valley, Maryland 21030  
 410.484.2600 Fax 410.987.0925  
 www.wallacemontgomery.com



**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

**MONTGOMERY COUNTY**  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

**RECOMMENDED FOR APPROVAL**

Chief, Design Section: \_\_\_\_\_ Date: \_\_\_\_\_  
 APPROVED

Chief, Division of Engineering Services: \_\_\_\_\_ Date: \_\_\_\_\_

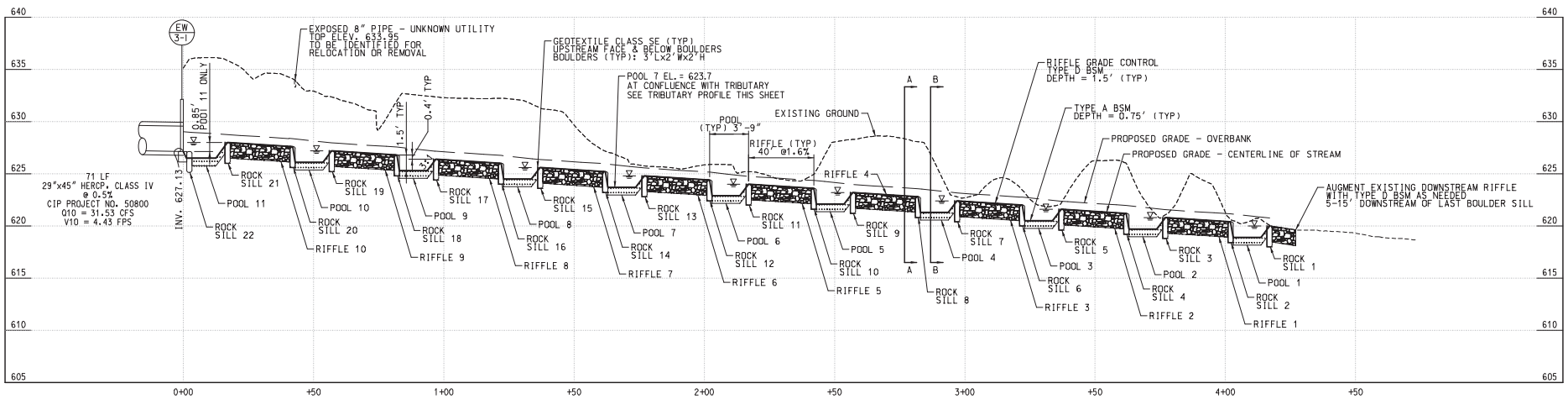
Designed by: L.E.W. Drawn by: L.E.W. Checked by: C.V.M.

**PLAN SHEET SR-01**  
**STREAM RESTORATION PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

SCALE: 1"=20'

08/2020

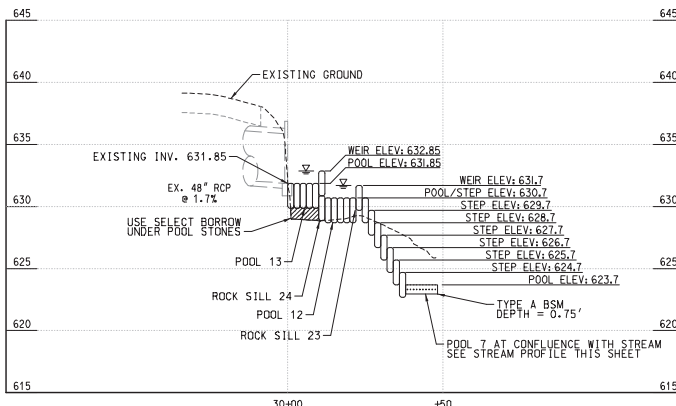
Project No.: C.I.P. PR. # 301744 SHEET 15 of 88



STREAM PROFILE

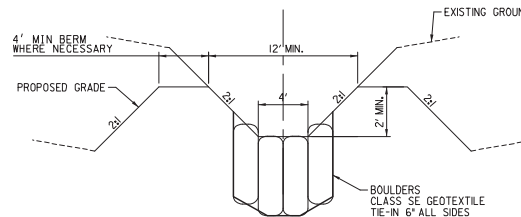
SCALE: HOR. 1"=20'  
VERT. 1"=5'

NOTE:  
SEE SR-03 THROUGH SR-05 FOR TYPICAL  
SECTIONS AND DETAILS. CHANNEL DEPTHS  
VARY BETWEEN SECTIONS ACCORDING TO  
PROFILE.



TRIBUTARY PROFILE

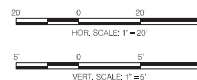
SCALE: HOR. 1"=20'  
VERT. 1"=5'



TRIBUTARY TYPICAL SECTION

NOT TO SCALE

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:			NOTE: MCOPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCOPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:	
Reviewed: _____	Reviewed: _____	Reviewed: _____	
Date: _____	Date: _____	Date: _____	
Approved: _____	Approved: _____	Approved: _____	
Date: _____	Date: _____	Date: _____	
SM FILE #			
<p>MCOPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.</p> <p>GPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects upland or downland properties.</p>			



UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: C.V.M.

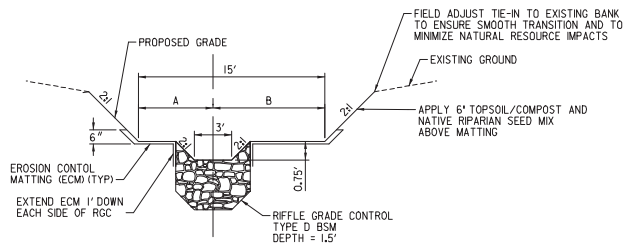
DATE: 08/20/2020

PLAN SHEET SR-02  
STREAM RESTORATION PROFILE  
MD 355 - CLARKSBURG  
SHARED USE PATH

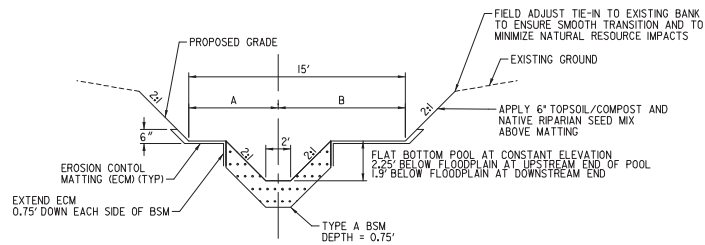
SCALE AS NOTED 08/20/20

Project No.: C.I.P. PR. # 301744 SHEET 16 of 88





A-A RIFFLE TYPICAL SECTION  
NOT TO SCALE



B-B POOL TYPICAL SECTION  
NOT TO SCALE

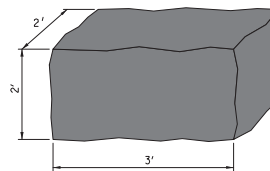
NOTE:  
ADD ROOTWAIDS TO POOL AS SHOWN ON PLANS. PLACE ROOTWAIDS ON THE SIDE OF POOL WITH 3' FLOODPLAIN

OVERBANK STAKEOUT TABLE

STATION	A	B
0+00	9'	6'
0+70	6'	9'
1+35	9'	6'
1+90	6'	9'
2+40	9'	6'
2+90	6'	9'
3+35	9'	6'
3+70	6'	9'

NATIVE RIPARIAN SEED MIX

PERCENT	COMMON NAME	SCIENTIFIC NAME
25%	VIRGINIA WILD RYE	<i>Elymus virginicus</i>
10%	ANNUAL RYE	<i>Lolium multiflorum</i>
20%	RIVERBANK WILD RYE	<i>Elymus riparius</i>
15%	RED FESCUE	<i>Festuca rubra</i> L.
10%	DEERTONGUE	<i>Dischanthelium clandestinum</i>
20%	BOTTLEBRUSH	<i>Elymus hystrix</i>



TYPICAL BOULDER  
NOT TO SCALE

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed: _____ Date: _____	Reviewed: _____ Date: _____	Reviewed: _____ Date: _____
Approved: _____ Date: _____	Approved: _____ Date: _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person or professional liability or ethical responsibility for the adequacy of the drainage design as it affects upland or downhill properties.

# UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

## RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_

CHM, Division of Engineering Services

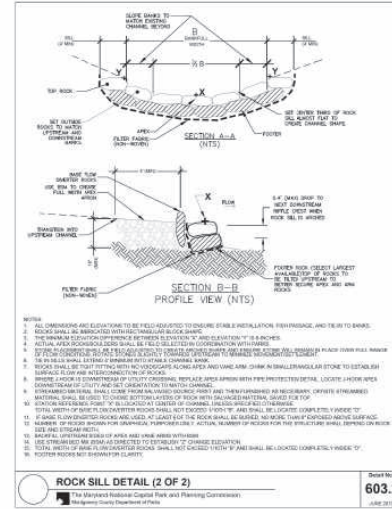
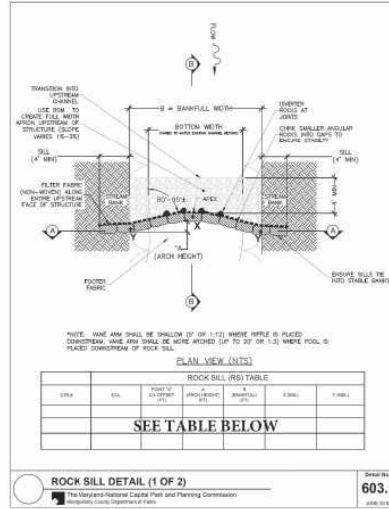
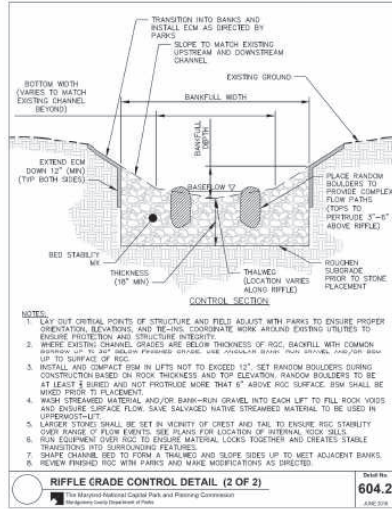
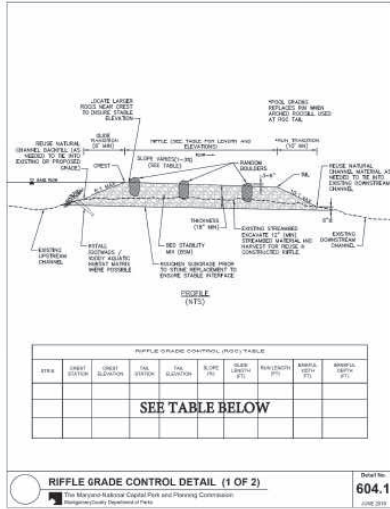
APPROVED: \_\_\_\_\_ Date: \_\_\_\_\_

Designed by: L.E.W. Drawn by: L.E.W. Checked by: C.V.M.

## PLAN SHEET SR-03 STREAM RESTORATION TYP. SECTIONS MD 355 - CLARKSBURG SHARED USE PATH

SCALE N.T.S. 08/2020  
Project No.: C.I.P. PR. # S01744 SHEET 17 of 88





STR #	CREST STA.	CREST ELEV.	TAIL STA.	TAIL ELEV.	SLOPE %	GLIDE LENGTH	RUN LENGTH	BANKFULL WIDTH	BANKFULL DEPTH
RIFFLE 10	0+17.0	628.0	0+42.0	627.6	1.6	N/A - ROCK SILL 21	N/A - ROCK SILL 20	6'	0.75'
RIFFLE 9	0+57.0	627.2	0+82.0	626.8	1.6	N/A - ROCK SILL 19	N/A - ROCK SILL 18	6'	0.75'
RIFFLE 8	0+97.0	626.4	1+22.0	626.0	1.6	N/A - ROCK SILL 17	N/A - ROCK SILL 16	6'	0.75'
RIFFLE 7	1+37.0	625.6	1+62.0	625.2	1.6	N/A - ROCK SILL 15	N/A - ROCK SILL 14	6'	0.75'
RIFFLE 6	1+77.0	624.8	2+02.0	624.4	1.6	N/A - ROCK SILL 13	N/A - ROCK SILL 12	6'	0.75'
RIFFLE 5	2+17.0	624.0	2+42.0	623.6	1.6	N/A - ROCK SILL 11	N/A - ROCK SILL 10	6'	0.75'
RIFFLE 4	2+57.0	623.2	2+82.0	622.8	1.6	N/A - ROCK SILL 9	N/A - ROCK SILL 8	6'	0.75'
RIFFLE 3	2+97.0	622.4	3+22.0	622.0	1.6	N/A - ROCK SILL 7	N/A - ROCK SILL 6	6'	0.75'
RIFFLE 2	3+37.0	621.6	3+62.0	621.2	1.6	N/A - ROCK SILL 5	N/A - ROCK SILL 4	6'	0.75'
RIFFLE 1	3+77.0	620.8	4+02.0	620.4	1.6	N/A - ROCK SILL 3	N/A - ROCK SILL 2	6'	0.75'

#### Montgomery Parks Bed Stability Mix (BSM) Tables

Purpose: Bed Stability Mix (BSM) is a mixture of sand, gravel, cobble, and rock that is installed within stream channels to stabilize areas of high erosion, provide channel shaping, and create long-term stability, surface flow, water quality, and fish passage.

BSM Type: Selection of BSM Type for a particular project should be made based on channel size, stream gradient, anticipated water power, etc.

Material Size	Percentage of BSM
BSM (Bed Stability Mix)	100%
Gravel	0%
Cobble	0%
Rock	0%
Total	100%

Material Size	Percentage of BSM
BSM (Bed Stability Mix)	100%
Gravel	0%
Cobble	0%
Rock	0%
Total	100%

Material Size	Percentage of BSM
BSM (Bed Stability Mix)	100%
Gravel	0%
Cobble	0%
Rock	0%
Total	100%

Material Size	Percentage of BSM
BSM (Bed Stability Mix)	100%
Gravel	0%
Cobble	0%
Rock	0%
Total	100%

Material Size	Percentage of BSM
BSM (Bed Stability Mix)	100%
Gravel	0%
Cobble	0%
Rock	0%
Total	100%

Notes:

1. Bed Stability Mix (BSM) should be placed in a layer 12" to 18" deep.
2. BSM should be placed in a layer 12" to 18" deep.
3. BSM should be placed in a layer 12" to 18" deep.
4. BSM should be placed in a layer 12" to 18" deep.
5. BSM should be placed in a layer 12" to 18" deep.
6. BSM should be placed in a layer 12" to 18" deep.
7. BSM should be placed in a layer 12" to 18" deep.
8. BSM should be placed in a layer 12" to 18" deep.
9. BSM should be placed in a layer 12" to 18" deep.
10. BSM should be placed in a layer 12" to 18" deep.

STR #	STA.	POINT "X" C/L OFFSET	A ARCH HEIGHT	B BANKFULL	X ELEV.	Y ELEV.
ROCK SILL 22	0+02.0	0'	1'	15'	630.5	631.25
ROCK SILL 21	0+17.0	0'	1'	15'	628.0	628.75
ROCK SILL 20	0+42.0	0'	1'	15'	627.6	628.35
ROCK SILL 19	0+57.0	0'	1'	15'	627.2	627.95
ROCK SILL 18	0+82.0	0'	1'	15'	626.8	627.55
ROCK SILL 17	0+97.0	0'	1'	15'	626.4	627.15
ROCK SILL 16	1+22.0	0'	1'	15'	626.0	626.75
ROCK SILL 15	1+37.0	0'	1'	15'	625.6	626.35
ROCK SILL 14	1+62.0	0'	1'	15'	625.2	625.95
ROCK SILL 13	1+77.0	0'	1'	15'	624.8	625.55
ROCK SILL 12	2+02.0	0'	1'	15'	624.4	625.15
ROCK SILL 11	2+17.0	0'	1'	15'	624.0	624.75
ROCK SILL 10	2+42.0	0'	1'	15'	623.6	624.35
ROCK SILL 9	2+57.0	0'	1'	15'	623.2	623.95
ROCK SILL 8	2+82.0	0'	1'	15'	622.8	623.55
ROCK SILL 7	2+97.0	0'	1'	15'	622.4	623.15
ROCK SILL 6	3+22.0	0'	1'	15'	622.0	622.75
ROCK SILL 5	3+37.0	0'	1'	15'	621.6	622.35
ROCK SILL 4	3+62.0	0'	1'	15'	621.2	621.95
ROCK SILL 3	3+77.0	0'	1'	15'	620.8	621.55
ROCK SILL 2	4+02.0	0'	1'	15'	620.4	621.15
ROCK SILL 1	4+17.0	0'	1'	15'	620.0	620.75
ROCK SILL 24	30+11.0	0'	0'	12'	632.82	633.85
ROCK SILL 23	30+23.0	0'	0'	12'	631.7	632.7

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed	Date	Reviewed
Approved	Date	Approved
SIM FILE #		SEEDMENT CONTROL PERMIT NO.
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff requirements standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects light or downflow properties.		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.



#### UPDATED 90% SUBMITTAL

NO.	REVISION	DATE	BY



100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

#### PLAN SHEET SR-04 STREAM RESTORATION DETAILS MD 355 - CLARKSBURG SHARED USE PATH

RECOMMENDED FOR APPROVAL

DATE

APPROVED

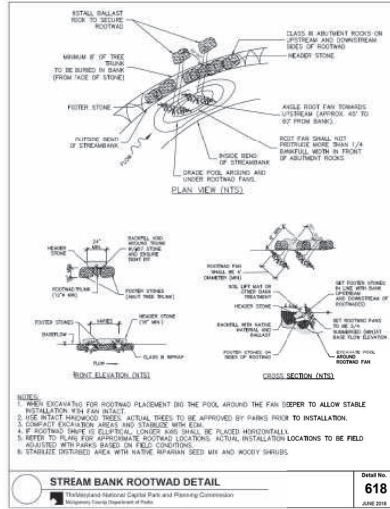
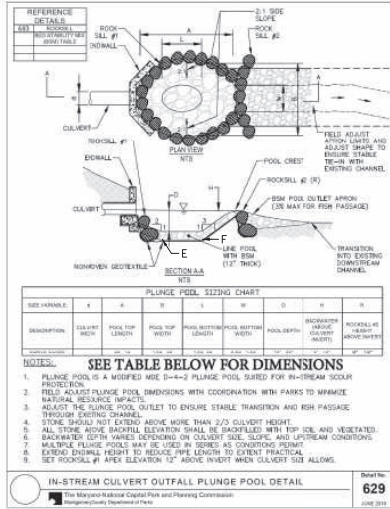
DATE

DESIGNED BY: L.E.W. DRAWN BY: L.E.W. CHECKED BY: C.V.M.

PROJECT NO.: C.I.P. PR. # 301744 SHEET 18 of 88

SCALE: N.T.S.

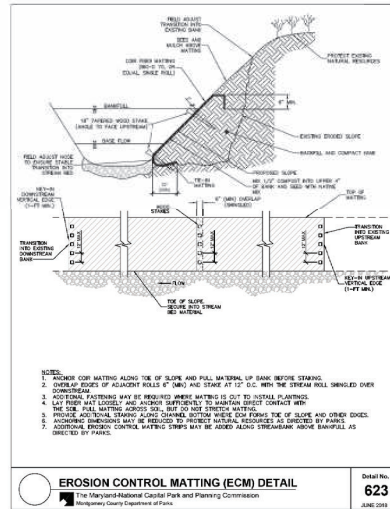
DATE: 08/2020



- Montgomery Parks Construction Notes for Stream Restoration on Parkland**
- A pre-construction meeting with the MDCPS (Parks) Construction Inspector, Urban Forester, Park Manager, Engineer, Contractor, and appropriate Stream Restoration Professional (SRP) shall occur to ensure full understanding of the project goals, design intent, and field conditions at the time of construction. (The applicant is responsible for coordination with MDE and other regulatory agencies as required by permits.) Contact Jay Childs, Park Construction Manager, at 301.495.2575 to schedule this meeting.
  - Contractor shall be familiar with and implement MDE Waterway Construction Guidelines and MDE Best Management Practices for Working in Nonpoint Wetlands, Streambed Buffers, Watersheds, and 100-year Floodplain throughout construction. All in-stream construction shall occur "in the dry" with appropriate pump-around practices.
  - The applicant shall engage a SRP, an individual familiar with stream restoration/redevelopment design features and waterway construction techniques, to oversee in-stream construction activities to ensure stable channel construction, including appropriate field adjustments and natural resources protection. The applicant shall employ this person to direct Contractor's work as needed to ensure design intent is achieved. This person shall coordinate all adjustments and acceptance of structures with Parks as construction progresses.
  - Parks, in coordination with the SRP and contractor, may require minor adjustments to the layout/elevation of in-stream structures, streambank stabilization, and grading during construction to minimize disturbance to trees/tree roots and to ensure functionality of completed construction. Note that the contractor shall take care to protect tree/trunks/roots designed to remain throughout construction.
  - Contractor shall layout critical design points (orientation station, offsets, elevations, structures, etc.) along the stream channel for review prior to structure installation. SRP shall coordinate with Parks to adjust/confirm stationing to ensure channel stability and protect natural resources. Contractor shall be responsible for maintaining stationing during construction until final acceptance by Parks. Contractor shall maintain level equipment onsite to check grades as construction progresses.
  - Construction of in-stream structures, including grade control, bank stabilization and habitat structures, shall be inspected by SRP and Parks under baseflow (not pump-around) conditions to determine any modifications required prior to acceptance. Additional inspections following storm events may result in additional modifications. Contractor is encouraged to utilize construction equipment for completion of completed structure to ensure stability.
  - Access routes and staging areas shall be field adjusted with Parks to minimize impacts to natural resources. Equipment restrictions (e.g., <8 psi loaded ground pressure) may be required by Parks in sensitive areas. Access routes will be limited to 12' width, unless otherwise approved by Parks.
  - Contractor shall coordinate all tree protection measures and tree removals with Parks prior to construction. Protection measures, such as hardwood mats, tree planting, root aeration matting, equipment restrictions, mulch roads, tree protection fencing, etc. must be installed before equipment enters root areas.

- Contractor shall coordinate with Sediment Control Inspector and Parks to utilize treeless sediment controls (i.e. compact pads, trenchless lift fences, etc.) and/or daily stabilization to avoid cutting through mature tree root systems. Where trenching is required, root preservation to excavation in the direction of Parks.
- Tree trunk/stem systems to remain shall not be damaged during placement of riprap, vegetated rock pads, riffle grade controls, rock lifts, and other restraints. Best extent/orientation of stone placement shall be adjusted in the field, and work completed in a manner that minimizes impacts to terrestrial and aquatic natural resources.
- Contractor is responsible for control of water throughout construction, including stream flows and runoff through disturbed areas.
- In-stream areas where pump-around is removed at the end of the workday must be completed and stabilized daily. Disturbed areas above baseflow shall receive seed/mulch at the end of each workday. Once stream flow is re-established at the end of the workday, the contractor shall allow sufficient time to inspect the new flow pattern and make appropriate adjustments to ensure non-erosive conditions before vacating the site.
- Contractor is responsible for ensuring smooth transitions at upstream and downstream ends of work areas and between the streambed and its banks.
- Upon completion of in-stream restraints and channel grading, thalweg to be reestablished as directed by the SRP and Parks.
- All exposed stone (including stone toe, imbricated rock walls, rock pads, etc.) above bankfull depth shall be backfilled with topsoil/compost to within 2-inches of rock surface and vegetated with native riparian seed and mulch.
- voids should not be left in any completed in-stream structures. Structures should be checked with BSM and/or stream bed mix to fill all voids. Constructed riffles and other grade control restraints will not be accepted by Parks until surficial baseflow is established.
- Applicant is responsible for completing fish rescue associated with all pump-around. Fish rescue teams should consist of properly trained personnel, based on Maryland Biological Stream Survey (MBSS) standards. A list of personnel certified in MBSS protocols can be found at: <http://www.dnr.maryland.gov/streams/mbsshelp.asp>. Fish rescue: require three (3) working days advanced notice to Parks.
- Where fish pool/aquatic habitat is specified for preservation or enhancement, completed construction should favor the following conditions:
  - Root-water interaction at baseflow
  - Maintaining void space between roots and underbank banks
  - Restoring post-construction flow patterns to provide adequate scour depth to naturally wash out pools and maintain adequate habitat
- Completed streambed profile shall not have pavement dips greater than six inches and constructed riffles shall not be steeper than 3% to ensure fish passage. Contractor will be required to modify/adjust constructed restraints to exceed limits, or otherwise create fish passage restrictions at baseflow, as directed by SRP and Parks.

PLUNGE POOL TABLE							
STR #	E STA.	F STA.	POOL ELEV.	POOL BOTTOM LENGTH	POOL BOTTOM WIDTH	POOL DEPTH	BACKWATER ABOVE CULVERT
POOL 11	0+03.3	0+12.5	626.5	11.2'	2'	1.5'	0.87'
POOL 10	0+43.0	0+53.7	626.1	10.7'	2'	1.1'	N/A
POOL 9	0+83.0	0+93.7	625.3	10.7'	2'	1.1'	N/A
POOL 8	1+23.0	1+33.7	624.5	10.7'	2'	1.1'	N/A
POOL 7	1+63.0	1+73.7	623.7	10.7'	2'	1.1'	N/A
POOL 6	2+03.0	2+13.7	622.9	10.7'	2'	1.1'	N/A
POOL 5	2+43.0	2+53.7	622.1	10.7'	2'	1.1'	N/A
POOL 4	2+83.0	2+93.7	621.3	10.7'	2'	1.1'	N/A
POOL 3	3+23.0	3+33.7	620.5	10.7'	2'	1.1'	N/A
POOL 2	3+63.0	3+73.7	619.7	10.7'	2'	1.1'	N/A
POOL 1	4+03.0	4+13.7	618.9	10.7'	2'	1.1'	N/A
POOL 13	30+00.0	30+10.0	635.85	10.0	4'	1.0'	1.0
POOL 12	30+12.0	30+22.0	630.7	10.0	4'	1.0'	N/A



## UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

**MONTGOMERY COUNTY**  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

**RECOMMENDED FOR APPROVAL**

CMH, Design Section  
APPROVED

CMH, Division of Engineering Services  
APPROVED

Designed by: L.E.W. Drawn by: L.E.W. Checked by: C.V.M.

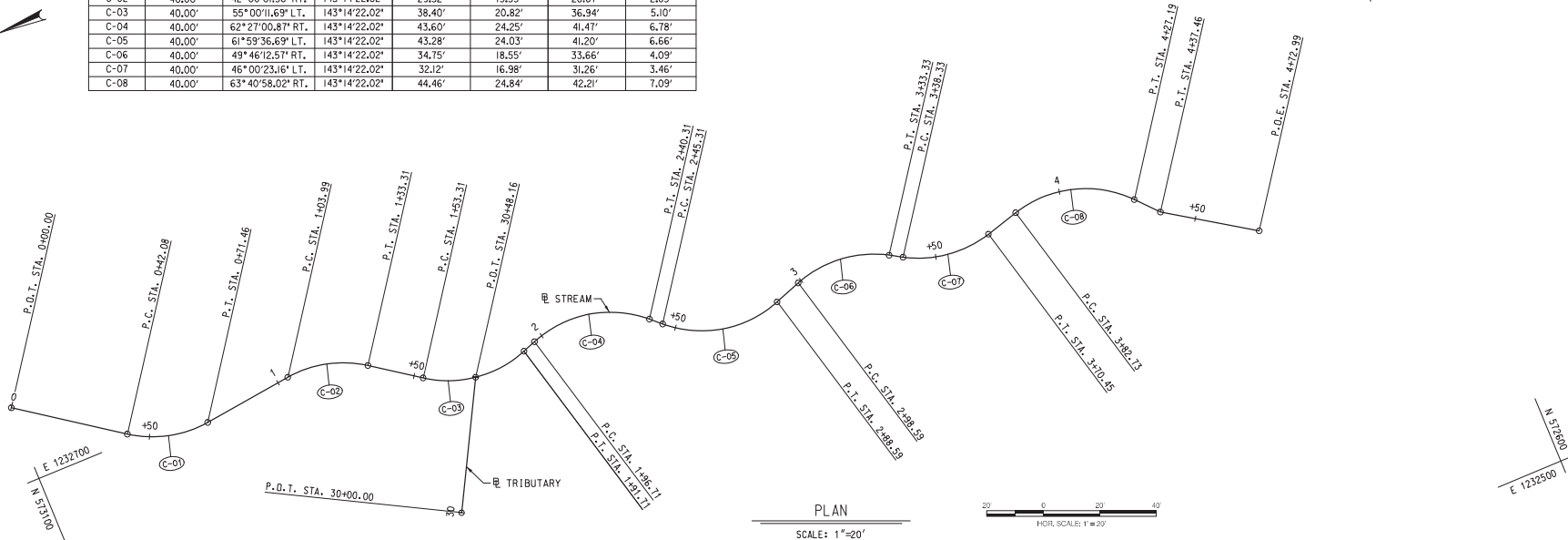
Project No.: C.I.P. PR. # 301744 SHEET 19 of 88

## PLAN SHEET SR-05 STREAM RESTORATION DETAILS MD 355 - CLARKSBURG SHARED USE PATH

SCALE: N.T.S. 08/2020



CURVE DATA - STREAM							
CURVE	RADIUS	DELTA	Dc	LENGTH	TANGENT	CHORD	EXTERNAL
C-01	40.00'	42°04'27.23" L.T.	143°14'22.02"	29.37'	15.38'	28.72'	2.86'
C-02	40.00'	42°00'01.36" R.T.	143°14'22.02"	29.32'	15.35'	28.67'	2.85'
C-03	40.00'	55°00'11.69" L.T.	143°14'22.02"	38.40'	20.82'	36.94'	5.10'
C-04	40.00'	62°27'00.87" R.T.	143°14'22.02"	43.60'	24.25'	41.47'	6.78'
C-05	40.00'	61°59'36.69" L.T.	143°14'22.02"	43.28'	24.03'	41.20'	6.66'
C-06	40.00'	49°46'12.57" R.T.	143°14'22.02"	34.75'	18.55'	33.66'	4.09'
C-07	40.00'	46°00'23.16" L.T.	143°14'22.02"	32.12'	16.98'	31.26'	3.46'
C-08	40.00'	63°40'58.02" R.T.	143°14'22.02"	44.46'	24.84'	42.21'	7.09'



☒ OF CONSTRUCTION STREAM				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
P.O.B.	0+00.00	573,099.5030	1,232,726.8023	S 35°11'17.76" W
P.C.	0+42.08	573,065.1107	1,232,702.5517	
P.J.	0+57.17	573,052.5376	1,232,693.6862	
P.T.	0+71.46	573,037.2643	1,232,695.5307	
P.C.	1+03.99	573,004.9690	1,232,693.4309	S 06°53'09.47" E
P.J.	1+19.34	572,989.7250	1,232,701.2718	
P.T.	1+33.31	572,977.1648	1,232,692.4396	
P.C.	1+53.31	572,960.8047	1,232,680.9354	
P.J.	1+74.13	572,943.7704	1,232,668.9571	S 19°53'19.79" E
P.T.	1+91.71	572,924.1884	1,232,676.0414	
P.C.	1+96.71	572,919.4866	1,232,677.7424	
P.J.	2+20.96	572,896.6841	1,232,685.9917	
P.T.	2+40.31	572,878.8236	1,232,669.5903	S 42°33'41.08" W
P.C.	2+45.31	572,875.1408	1,232,666.2084	
P.J.	2+69.34	572,857.4404	1,232,649.9541	
P.T.	2+88.59	572,834.7780	1,232,657.9491	
P.C.	2+98.59	572,825.3476	1,232,661.2760	S 19°25'55.60" E
P.J.	3+17.14	572,807.8499	1,232,667.4489	
P.T.	3+33.33	572,791.8360	1,232,658.0769	
P.C.	3+38.33	572,787.5207	1,232,655.5514	
P.J.	3+55.31	572,772.8645	1,232,646.9740	S 15°40'06.19" E
P.T.	3+70.45	572,756.5139	1,232,651.5602	
P.C.	3+82.73	572,744.6858	1,232,654.8779	
P.J.	4+07.58	572,720.7678	1,232,661.5867	
P.T.	4+27.19	572,704.1506	1,232,643.1220	S 48°00'51.83" W
P.J.	4+37.46	572,697.2803	1,232,635.4880	
P.O.T.	4+72.99	572,667.5362	1,232,616.0664	

☒ OF CONSTRUCTION TRIBUTARY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
P.O.T.	30+00.00	572,966.4217	1,232,631.6960	S 61°37'46.28" E
P.O.T.	30+48.16	572,943.5385	1,232,674.0699	

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.

# UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL	
NO.	REVISION

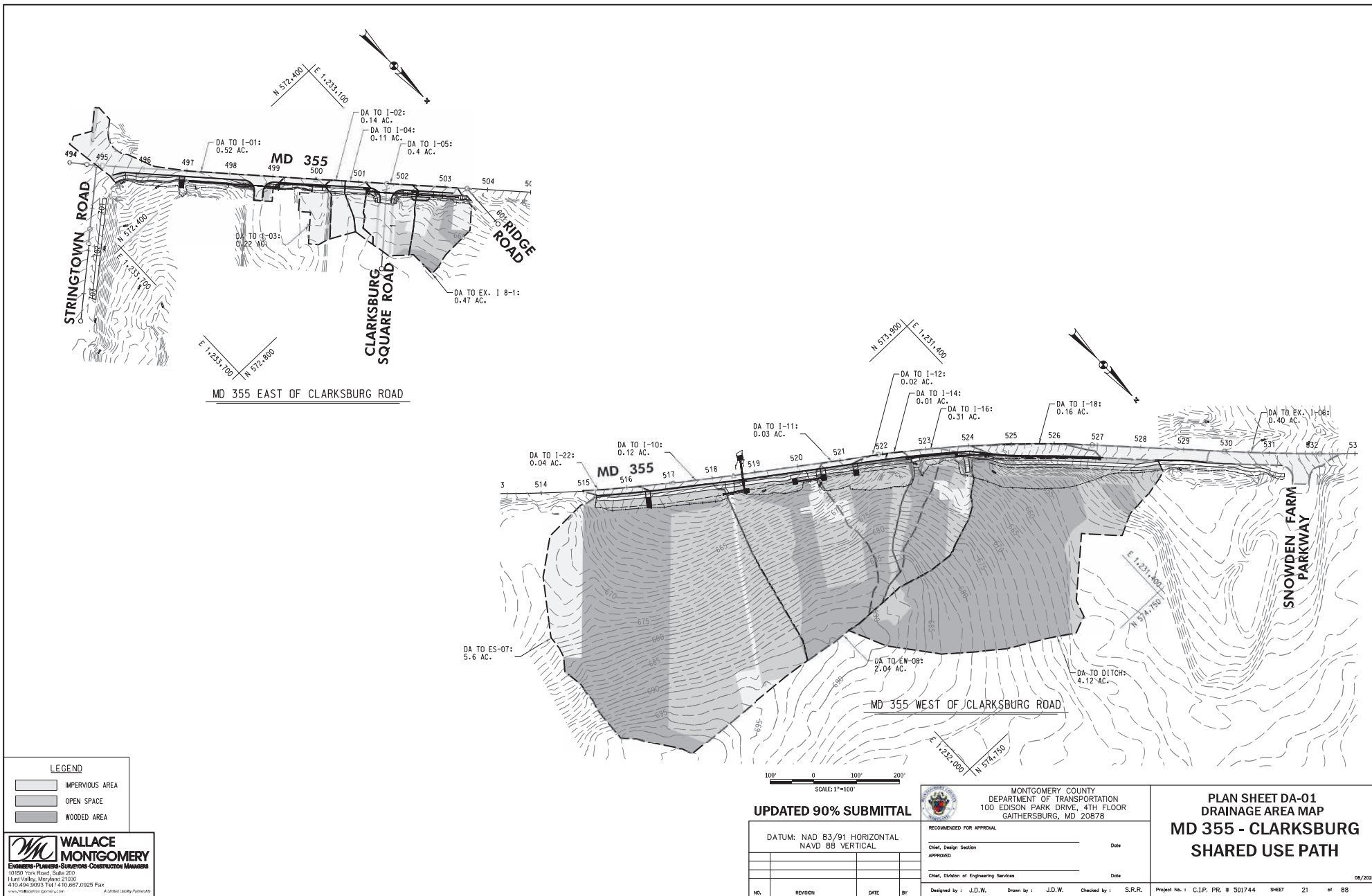
<b>MONTGOMERY COUNTY</b> DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	DATE
CHM, Design Section	
APPROVED	
CHM, Division of Engineering Services	DATE
Designed by: L.E.W.	Drawn by: L.E.W.
Checked by: C.V.M.	Project No.: C.I.P. PR. # 301744

## PLAN SHEET SR-06 STREAM RESTORATION GEOM. LAYOUT MD 355 - CLARKSBURG SHARED USE PATH

SCALE 1" = 20'  
08/2020  
SHEET 20 of 88



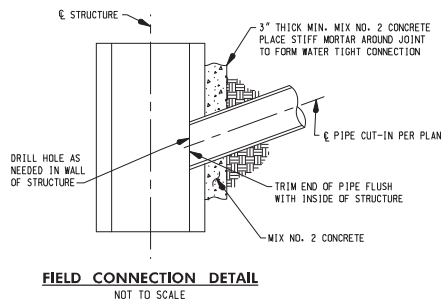
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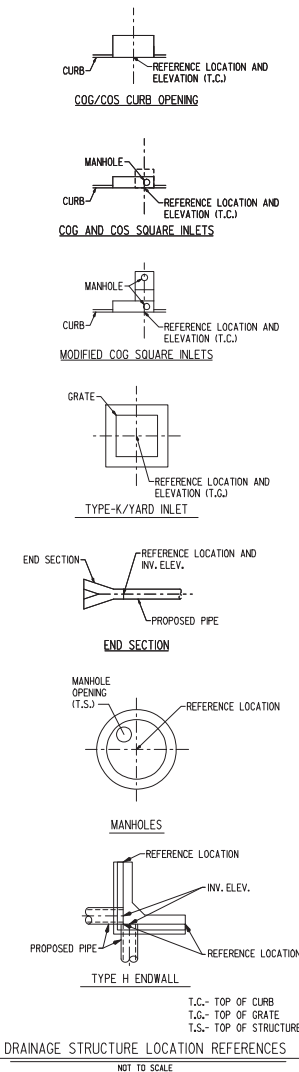
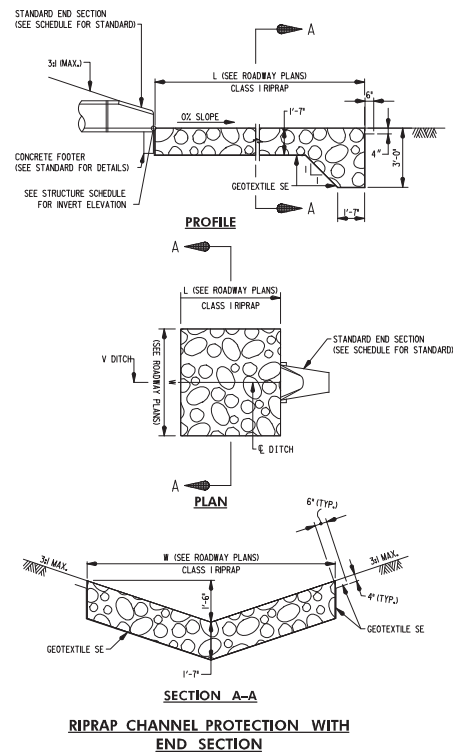
STRUCTURE SCHEDULE							
PLAN SHEET	NUMBER	STATION	OFFSET	TYPE	ELEVATION		VERTICAL DEPTH
					TOP	INV.	
PS-01	I-01	496+88.53	13.00' RT.	10' COG OPENING	657.27	N/A	N/A
PS-02	I-02	500+25.07	13.00' RT.	STANDARD 10' COG INLET	662.79	656.62	0.00
PS-02	I-03	499+15.20	13.00' RT.	STANDARD 15' COG INLET	660.41	654.10	0.14
PS-02	I-04	501+20.27	13.00' RT.	MODIFIED 10' COG INLET *	663.40	657.40	0.00
PS-03	I-05	502+37.34	13.00' RT.	MODIFIED 15' COG INLET *	661.55	655.55	0.00
PS-04	I-22	516+47.01	13.00' RT.	10' COG OPENING	658.10	N/A	N/A
PS-04	I-10	518+69.97	13.00' RT.	MODIFIED 15' COG INLET *	653.22	647.09	0.00
PS-05	I-11	520+57.00	13.00' RT.	10' COG OPENING	655.56	N/A	N/A
PS-05	I-12	521+33.00	13.00' RT.	10' COG OPENING	657.22	N/A	N/A
PS-05	I-14	522+55.72	13.00' RT.	STANDARD 5' COG INLET	658.25	652.08	0.00
PS-06	I-16	523+70.69	13.00' RT.	MODIFIED 15' COG INLET *	653.80	647.63	0.00
PS-06	I-17	524+44.68	20.27' RT.	STANDARD 20' COG INLET	649.51	643.33	0.00
PS-06	I-18	527+07.54	28.50' RT.	STANDARD 20' COG INLET	633.64	628.26	0.00
PS-04	ES-01	518+69.97	26.50' LT.	30" STANDARD CONCRETE END SECTION ROUND	N/A	646.03	N/A
PS-04	ES-07	518+25.62	40.56' RT.	24" STANDARD CONCRETE END SECTION ROUND	N/A	650.83	N/A
PS-05	ES-13	520+43.81	34.79' RT.	18" STANDARD CONCRETE END SECTION ROUND	N/A	653.64	N/A
PS-05	ES-14	520+00.31	34.77' RT.	18" STANDARD CONCRETE END SECTION ROUND	N/A	652.86	N/A
PS-04	EW-08	518+68.96 518+68.96 518+75.47	36.74' RT. 43.24' RT. 36.72' RT.	STANDARD TYPE H ENDWALL FOR 24 INCH PIPE	N/A	650.36	N/A
PS-02	MH-02	499+14.47	23.22' RT.	48" SQUARE STANDARD SHALLOW MANHOLE	660.49	653.92	1.15

\* NOTE: THE CONTRACTOR MUST SUBMIT THE ASSOCIATED SHOP DRAWINGS (FOR REVIEW AND APPROVAL) TO MR. FRANK BROWN (FBROWN@MDOT.MARYLAND.GOV) OF MDOT SHA CRD-HIGHWAY HYDRAULICS DIVISION.

PIPE SCHEDULE									
PLAN SHEET	STRUCTURE FROM	STRUCTURE TO	SIZE	UPSTREAM INV.	DOWNSTREAM INV.	TYPE	LENGTH	COMMENT	
PS-01 & 02	MH-02	EX. MH-01	18"	651.60	648.76	RCP CLASS IV	209'		
PS-02	I-02	I-03	15"	652.97	652.02	RCP CLASS IV	106'		
PS-02	I-03	MH-02	18"	651.77	651.70	RCP CLASS IV	4'		
PS-02 & 03	I-04	I-05	18"	657.40	655.65	RCP CLASS IV	113'		
PS-03	I-05	EX. I 8-1	18"	655.55	651.99	RCP CLASS IV	94'	TIE-IN TO INLET CONSTRUCTED UNDER PROJECT NO. 508000	
PS-04	ES-07	EW-08	24"	650.83	650.61	RCP CLASS IV	44'		
PS-04	EW-08	I-10	24"	650.36	649.70	RCP CLASS IV	14'		
PS-04	I-10	ES-01	30"	647.09	646.03	RCP CLASS IV	47'		
PS-05	ES-13	ES-14	18"	653.75	652.75	RCP CLASS IV	44'		
PS-05 & 06	I-14	I-16	18"	652.08	647.73	RCP CLASS IV	111'		
PS-06	I-16	I-17	18"	647.63	643.43	RCP CLASS IV	70'		
PS-06	I-17	I-18	18"	643.33	628.43	RCP CLASS IV	257'		



RIPRAP OUTFALL SCHEDULE										
STRUCTURE ID	(FT)	(FT)	(IN)	(FT)	CLASS	TYPE	QTY (SY)	CUTOFF WALL (LF)	Q10 (FPS)	V10 (FPS)
ES-01	10.0	9.0	19	1.50	CLASS I	RCP III	10	9.0	17.9	9.0



## UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

Designed by: J.D.W.

Drawn by: J.D.W.

Checked by: S.R.R.

FILE: R:\PROJECTS\3.0010\Highway\Code-Drainage\p00-5001\_MD355.dgn

## PLAN SHEET DD-01 DRAINAGE SCHEDULE & DETAILS MD 355 - CLARKSBURG SHARED USE PATH

SCALE: N.T.S.

Project No.: C.I.P. PR. # 501744 SHEET 22 of 88

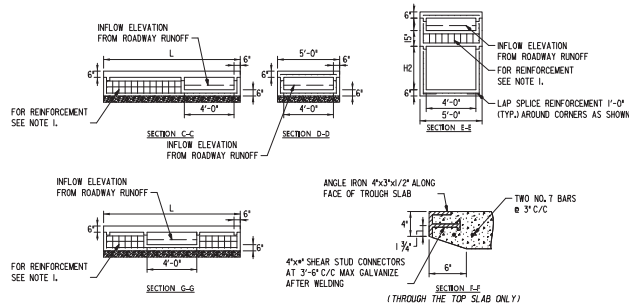
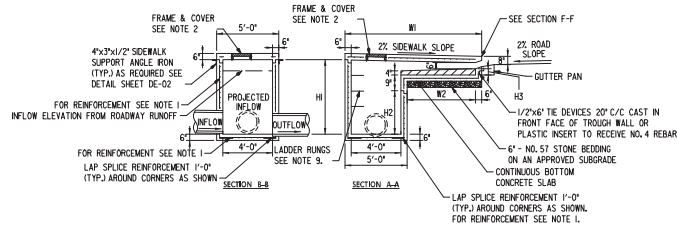
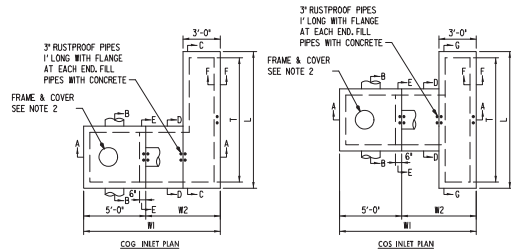


CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-04	515+45.58	42.73 RT.	2'	661.00
PS-04	515+50.00	43.00 RT.	2'	660.33
PS-04	515+75.00	43.81 RT.	2'	658.02
PS-04	516+00.00	45.11 RT.	2'	656.96
PS-04	516+25.00	44.70 RT.	2'	655.84
PS-04	516+50.00	45.22 RT.	2'	654.54
PS-04	516+75.00	45.94 RT.	2'	653.66
PS-04	517+00.00	45.82 RT.	2'	652.52
PS-04	517+25.00	45.58 RT.	2'	651.77
PS-04	517+50.00	44.96 RT.	2'	651.28
PS-04	517+75.00	44.23 RT.	2'	651.00
PS-04	518+00.00	43.47 RT.	2'	650.99
PS-04	518+19.57	41.51 RT.	2'	650.87

CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-04	518+75.00	38.80 RT.	2'	650.60
PS-04 & 05	519+00.00	38.70 RT.	2'	650.74
PS-05	519+25.00	35.80 RT.	2'	651.72
PS-05	519+50.00	35.84 RT.	2'	652.22
PS-05	519+75.00	35.23 RT.	2'	652.60
PS-05	519+94.15	34.87 RT.	2'	652.75

GRASS SWALE STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-05	520+00.00	34.76 RT.	2'	653.75
PS-05	520+75.00	34.40 RT.	2'	654.36
PS-05	521+00.00	33.27 RT.	2'	654.95
PS-05	521+25.00	34.75 RT.	2'	655.50
PS-05	521+50.00	34.75 RT.	2'	656.05
PS-05	521+75.00	34.75 RT.	2'	656.48
PS-05	522+00.00	34.75 RT.	2'	656.84
PS-05	522+25.00	34.75 RT.	2'	656.89
PS-05	522+50.00	34.75 RT.	2'	656.94

CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-06	524+46.51	42.46 RT.	2'	647.79
PS-06	524+50.00	43.39 RT.	2'	647.57
PS-06	524+75.00	51.70 RT.	2'	645.99
PS-06	525+00.00	55.42 RT.	2'	644.25
PS-06	525+25.00	55.42 RT.	2'	642.80
PS-06	525+50.00	55.42 RT.	2'	641.34
PS-06	525+75.00	55.42 RT.	2'	639.75
PS-06	526+00.00	55.42 RT.	2'	638.23
PS-06	526+25.00	55.42 RT.	2'	636.66
PS-06	526+50.00	55.42 RT.	2'	635.16
PS-06	526+75.00	55.42 RT.	2'	633.66
PS-06	527+00.00	55.42 RT.	2'	632.37
PS-06	527+25.00	55.42 RT.	2'	631.33
PS-06	527+50.00	55.42 RT.	2'	630.50
PS-06	527+75.00	55.04 RT.	2'	629.73
PS-06 & 07	528+00.00	54.37 RT.	2'	629.04
PS-07	528+25.00	49.57 RT.	2'	628.52
PS-07	528+38.61	46.95 RT.	2'	628.36

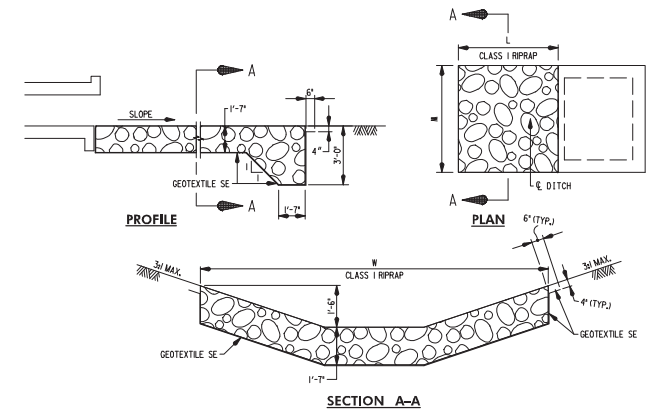


MODIFIED COG INLET DIMENSION TABLE							
INLET	(TFT)	(LFT)	(HIFT)	(H2FT)	(H3IN)	(W1FT)	(W2FT)
I-04	10.0	11.0	5.72	3.80	5.44	11.0	6.0
I-05	15.0	16.0	5.72	3.80	5.44	11.0	6.0
I-16	15.0	16.0	5.72	3.80	5.44	11.0	6.0

MODIFIED COS INLET DIMENSION TABLE							
INLET	(TFT)	(LFT)	(HIFT)	(H2FT)	(H3IN)	(W1FT)	(W2FT)
I-10	15.0	16.0	5.72	3.80	5.44	11.0	6.0

## NOTES

- INLET MAY BE PRECAST OR CAST IN PLACE. REINFORCEMENT SHALL BE EPOXY COATED NO. 4 BARS PLACED IN THE CENTER OF TROUS, AND INCIDENTALS REQUIRED TO SATISFACTORILY CONSTRUCT THE INLET AND COMPLETE THE WORK. INLET WALLS AT 6" C/C TWO WAYS. REINFORCEMENT STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60.
- FOR MANHOLE FRAME AND COVER SEE MD 383.61.
- CONCRETE SHALL BE MIX NO. 3.
- CURB OPENINGS SHALL NOT ENCRUST ON CROSSWALK AREAS.
- A CONCRETE OR BRICK CHANNEL WHICH SLOPES AT LEAST 2 IN/FT TOWARD THE OUTLET SHALL BE PROVIDED IN THE FIELD.
- GRADE AND SLOPE ADJUSTMENTS SHALL BE COMPLETED IN THE FIELD USING PRECAST ADJUSTMENT COLLAR AND MORTAR.
- SLOPED TROUGH FLOOR TO BE CAST IN THE FIELD AND USED ONLY WHEN ROAD GRADE IS 1.5% OR LESS. WHEN SLOPED TROUGH FLOOR IS USED, ROUGHEN PRECAST TROUGH FLOOR.
- PRECAST INLET JOINTS - THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR OWN DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATER-TIGHT USING THE MANUFACTURER'S RECOMMENDED ASTM OR AASHTO APPROVED SEALANT.
- LADDER RUNGS SHALL BE PLACED IN VERTICAL ALIGNMENT AT 1'-3" C/C. RUNGS ARE INCIDENTAL TO THE COST OF THE INLET.
- ANGLE IRON AND SHEAR STUD CONNECTORS SHALL BE GALVANIZED AFTER WELDING IN ACCORDANCE WITH ASTM A 123. SEE STD. NO. 374.55 & MD 374.64.
- SEE STANDARD MD 374.65 FOR DEPRESSIONED CUTTER PAN.
- CUSTOM COG/COS INLET SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH CUSTOM COG/COS INLET. PAYMENT WILL BE FULL COMPENSATION FOR ALL CONCRETE, REINFORCEMENT, LADDER RUNGS, EXCAVATION, LABOR, EQUIPMENT.



## RIPRAP CHANNEL PROTECTION WITH END SECTION

COG OPENING OUTFALL PROTECTION SCHEDULE										
STRUCTURE ID	L <sub>g</sub> (FT)	W <sub>f</sub> (FT)	T <sub>1</sub> (IN)	H <sub>f</sub> (FT)	CLASS	SLOPE	QTY (SY)	CUTOFF (LF)	Q10 (CFS)	V10 (FPS)
I-01	18.2	11.0	19	N/A	CLASS I	33%	23	N/A	2.75	3.14
I-11	13.0	11.0	19	1.02	CLASS I	25%	16	N/A	0.2	1.04
I-12	12.0	11.0	19	1.02	CLASS I	25%	18	N/A	0.1	0.91
I-22	24.0	11.0	19	1.02	CLASS I	25%	30	N/A	0.2	1.19

## UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

APPROVED

CHM, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

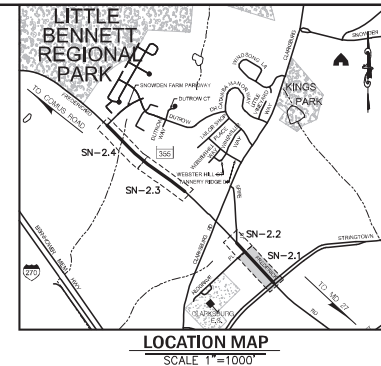
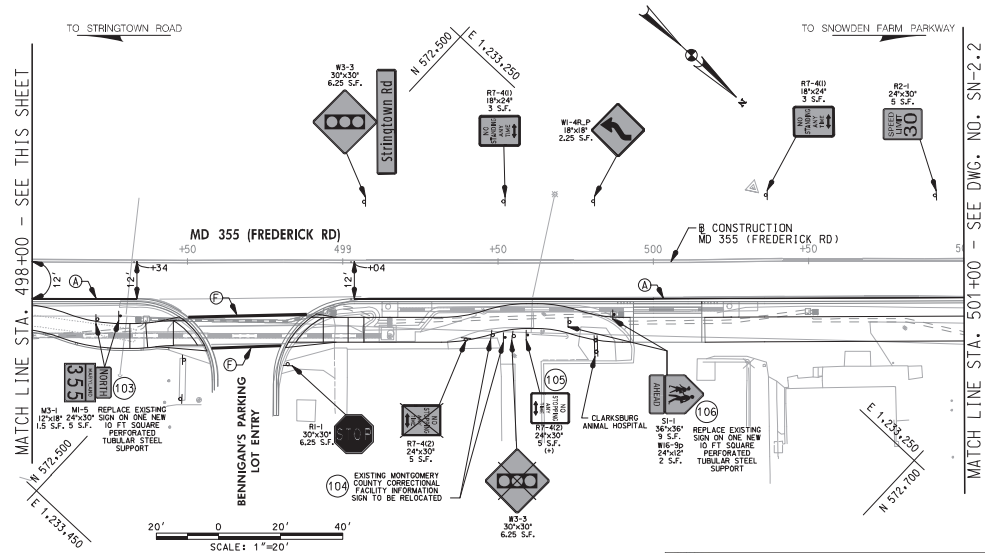
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## PLAN SHEET DD-02 DRAINAGE DETAILS MD 355 - CLARKSBURG SHARED USE PATH

Project No.: C.I.P. PR. # S01744 SHEET 23 of 88



LEGEND	
	(A) 5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(B) 5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(C) 5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
	(D) 5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(E) 10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(F) 12' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(G) 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)
	(H) THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
	(I) EXISTING PAVEMENT MARKINGS TO REMAIN
	(J) EXISTING PAVEMENT MARKINGS TO BE REMOVED
	+ INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT
	LANE USE ARROW



APPROVALS		REVISIONS	
DESIGNER			
CHECKER			
IN CHARGE			
DATE			

### UPDATED 90% SUBMITTAL

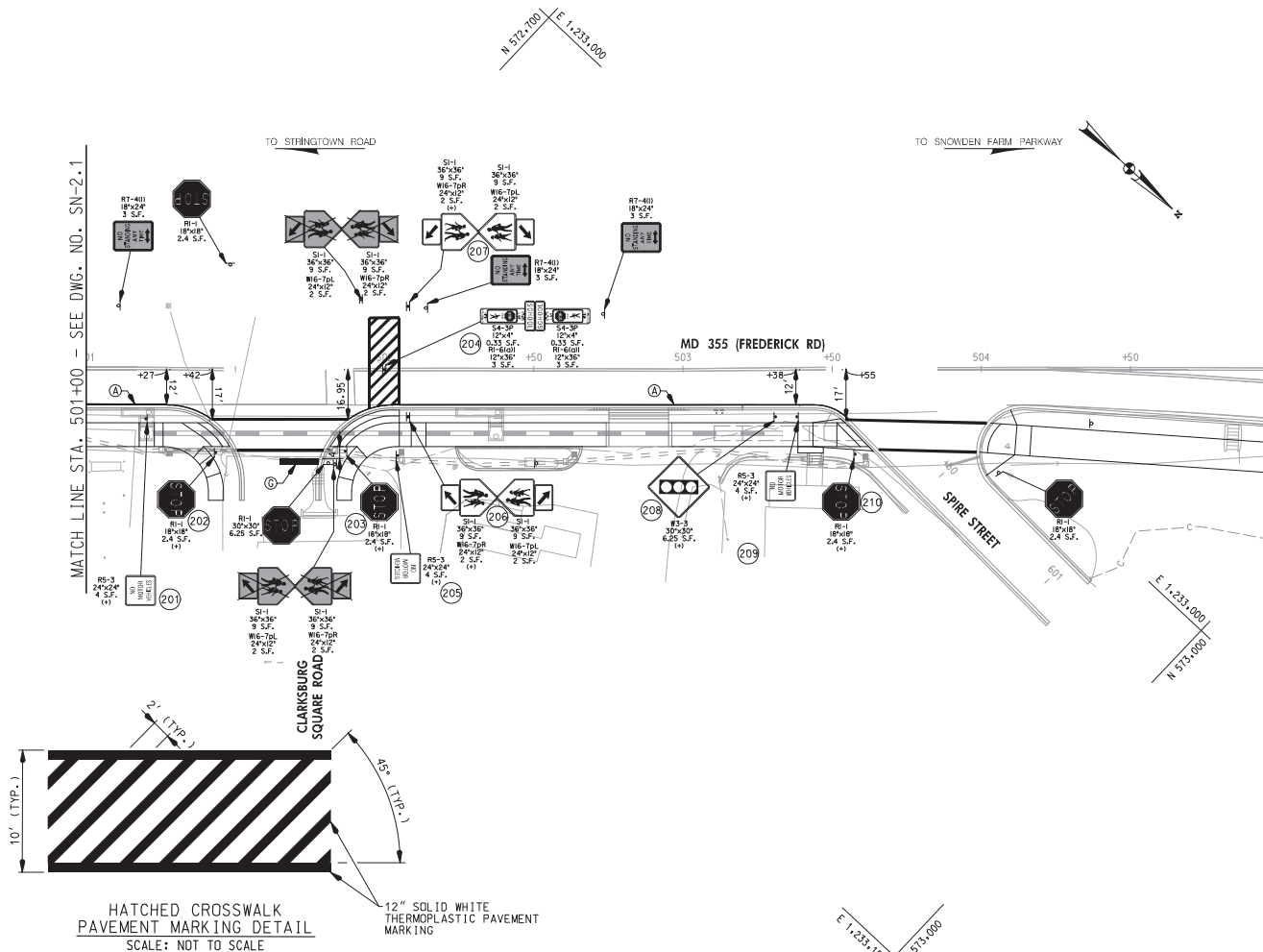
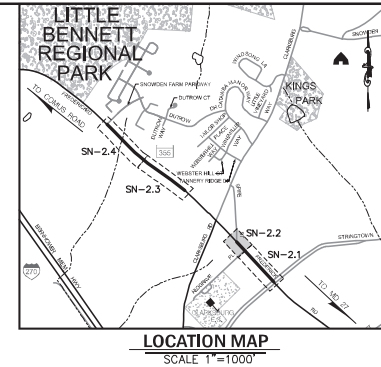
DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO. REVISION DATE BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by: J.D.W.	Drawn by: J.D.W.
Checked by: J.L.R.	

PLAN SHEET SN-2.1  
SIGNING & PAVEMENT MARKING PLANS  
MD 355 - CLARKSBURG  
SHARED USE PATH  
STA. 495+29 TO STA. 501+00

Project No.: C.I.P. PR. # 501744 SHEET 49 of 88



LEGEND	
	(A) 5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(B) 5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(C) 5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
	(D) 5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
	(E) 10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(F) 12' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
	(G) 24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)
	(H) THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
	(I) EXISTING PAVEMENT MARKINGS TO REMAIN
	(J) EXISTING PAVEMENT MARKINGS TO BE REMOVED
	+ INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT
	LANE USE ARROW

APPROVALS		REVISIONS	
DESIGNER			
CHECKER			
IN CHARGE			
PROJECT MANAGER			

### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

**MONTGOMERY COUNTY**  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHIEF, Design Section

APPROVED

CHIEF, Division of Engineering Services

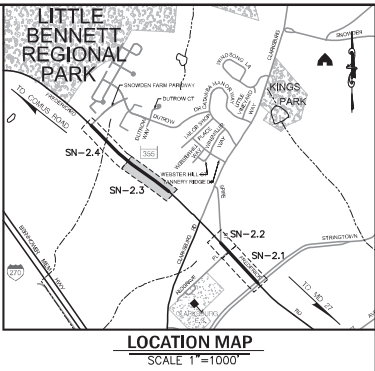
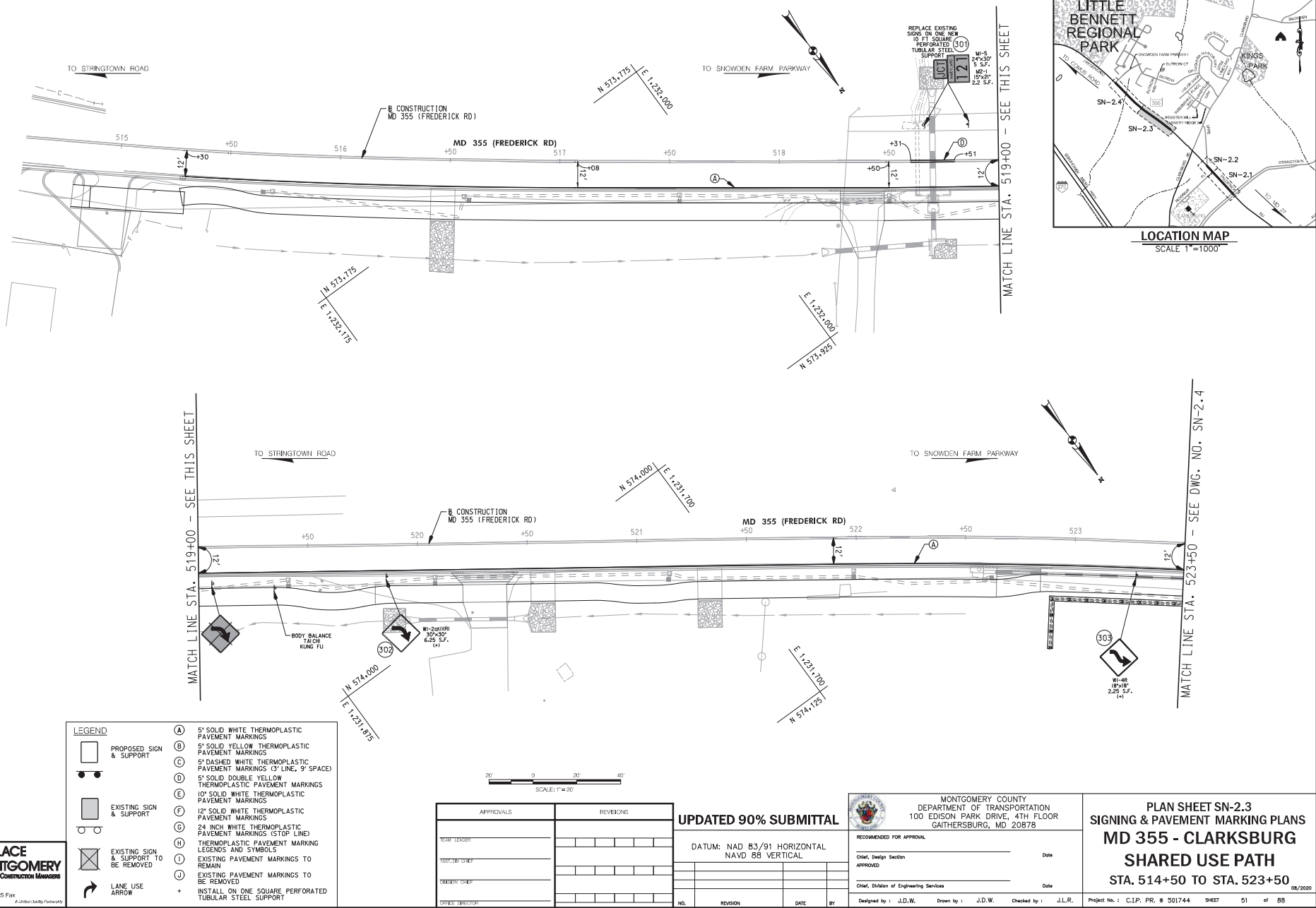
Designed by: J.D.W. Drawn by: J.D.W. Checked by: J.L.R.

**PLAN SHEET SN-2.2**  
**SIGNING & PAVEMENT MARKING PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**STA. 501+00 TO STA. 505+00**

Project No.: C.I.P. PR. # S01744 SHEET 50 of 88







**LEGEND**

(A)	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(B)	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
(C)	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
(D)	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
(E)	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(F)	12' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(G)	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)
(H)	THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
(I)	EXISTING PAVEMENT MARKINGS TO REMAIN
(J)	EXISTING PAVEMENT MARKINGS TO BE REMOVED
+	INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT
	PROPOSED SIGN & SUPPORT
	EXISTING SIGN & SUPPORT
	EXISTING SIGN & SUPPORT TO BE REMOVED
	LANE USE ARROW

APPROVALS		REVISIONS	
DESIGNER			
CHECKER			
IN CHARGE			
DATE			

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**MONTGOMERY COUNTY**  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section

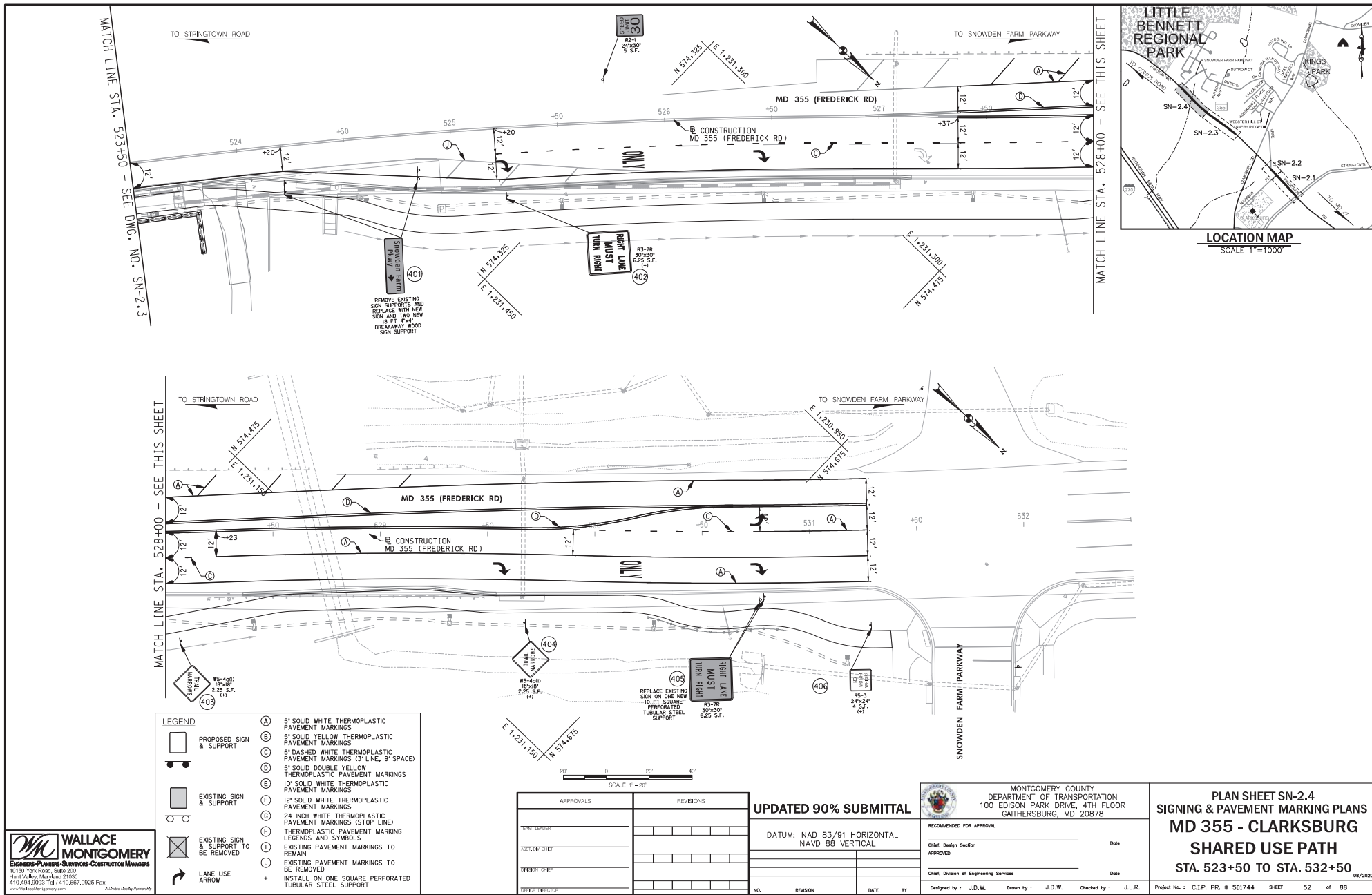
APPROVED

CHM, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: J.L.R.

**PLAN SHEET SN-2.3**  
**SIGNING & PAVEMENT MARKING PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**STA. 514+50 TO STA. 523+50**

Project No.: C.I.P. PR. # S01744 SHEET 51 of 88



SIGN NO.	REMARKS	CODE NUMBERS*												
		1	2	3	4	5	6	7	8	9	10	11	12	13
101	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
102	RELOCATE R2-1 (24"x30") 'SPEED LIMIT 30'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5								
103	RELOCATE M3-1 (12"x18") 'NORTH, M1-5 (24"x30") 'MARYLAND 355'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	6.5								
104	RELOCATE MONTGOMERY COUNTY CORRECTIONAL FACILITY SIGN	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	2								
105	R7-4(2) (24"x30") 'NO STOPPING ANY TIME'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	5	1	1									
106	RELOCATE W16-9 (24"x12") 'AHEAD, S1-1 (36"x36") SCHOOL	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5								
	PAVEMENT MARKINGS						503		61		13			
201	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
202	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
203	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
204	S4-3P (12"x4") 'SCHOOL' (2), R1-6(a)1 (12"x36") IN-STREET PEDESTRIAN CROSSING (2)		6.67											
205	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
206	S1-1 (36"x36") SCHOOL (2), W16-7pR (24"x12") ARROW PLAQUE, W16-7pL (24"x12") ARROW PLAQUE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	22	1	1									
207	S1-1 (36"x36") SCHOOL (2), W16-7pR (24"x12") ARROW PLAQUE, W16-7pL (24"x12") ARROW PLAQUE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	22	1	1									
208	W3-3 (30"x30") SIGNAL AHEAD	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
209	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
210	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
	PAVEMENT MARKINGS						213		154					
301	RELOCATE M2-1 (15"x21") 'JCT, M1-5 (24"x30"), 'MARYLAND 121'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	7.19								
302	W1-2a(1)(R) (30"x30") CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
303	W1-4R (18"x18") REVERSE CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
	PAVEMENT MARKINGS						820		40					
401	RELOCATE EXISTING SIGN	TWO 4"x4" WOOD SUPPORT												36
402	R3-7R (30"x30") 'RIGHT LANE MUST TURN RIGHT	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
403	W5-4a(1) (18"x18") 'TRAIL NARROWS'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
404	W5-4a(1) (18"x18") 'TRAIL NARROWS'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1									
405	R3-7R (30"x30") 'RIGHT LANE MUST TURN RIGHT	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1									
406	D11-1 (18"x24") 'BIKE ROUTE, RS-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1									
	PAVEMENT MARKINGS						1384					126		
	SUBTOTAL THIS SHEET		129.17	23	23	25.69	2920	40	215		13	126		

* CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	SF
2	SQUARE PERFORATED TUBULAR STEEL SIGN POSTS	EA
3	SQUARE TUBULAR STEEL ANCHOR BASES	EA
4	RELOCATE EXISTING GROUND MOUNTED SIGNS	SF
5	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING LINES	LF
7	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING LINES	LF
8	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
9	16 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
10	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
11	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF
12	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	SF
13	4"x4" WOOD SUPPORT	LF



REVISIONS			
NO.	REVISION	DATE	BY

### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL



MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CHM, Design Section  
 APPROVED

Date

CHM, Division of Engineering Services

Date

Designed by : J.D.W. Drawn by : J.D.W. Checked by : J.L.R.

**PLAN SHEET SN-11.1**  
**SIGNING & PAVEMENT MARKING PLANS**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**INDEX OF QUANTITIES**

Project No.: C.I.P. PR. # S01744 SHEET 53 of 88

08/2020

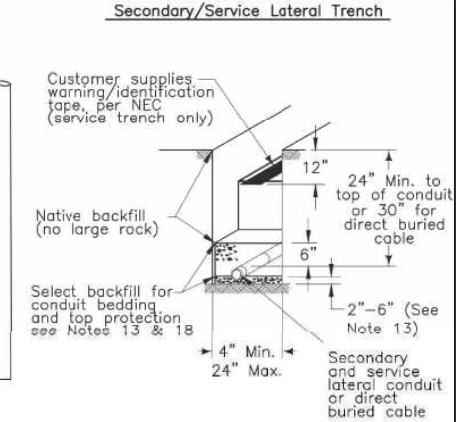
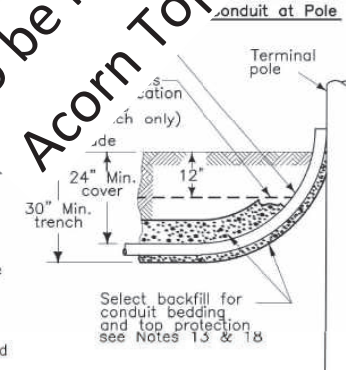
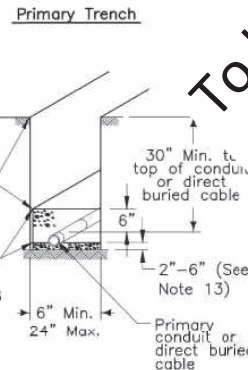
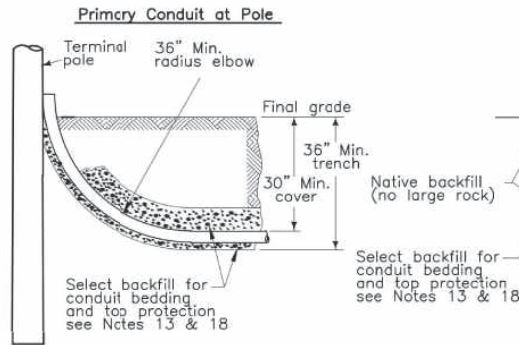
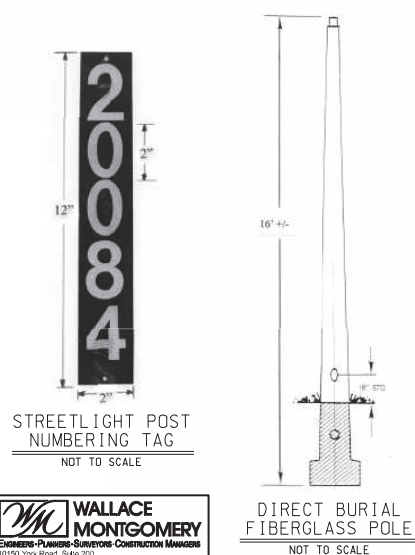
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# POLE SCHEDULE

POLE NUMBER	TYPE OF POLE	POLE OFFSET FROM TRAVEL LANE **	STATION AND OFFSET	LUMINAIRE / WATTAGE	TYPE OF BASE	DRAWING NUMBER
22243	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	495+64, 17' RT	LED/53W	Breakaway	LT-02
22245	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	5'	496+57, 16' RT	LED/53W	Breakaway	LT-02
22247	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	14'	497+43, 26' RT	LED/53W	Breakaway	LT-02
22249	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	5'	498+35, 16' RT	LED/53W	Breakaway	LT-03
22251	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	498+97, 17' RT	LED/53W	Breakaway	LT-03
22253	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	499+90, 17' RT	LED/53W	Breakaway	LT-03
22255	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	500+52, 17' RT	LED/53W	Breakaway	LT-03
22257	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	501+28, 28' RT	LED/53W	Breakaway	LT-03
22259	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	502+06, 28' RT	LED/53W	Breakaway	LT-04
22261	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	17'	502+64, 29' RT	LED/53W	Breakaway	LT-04
22263	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	18'	503+61, 29' RT	LED/53W	Breakaway	LT-04
22265	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	515+65, 17' RT	LED/53W	Breakaway	LT-05
22267	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	516+59, 18' RT	LED/53W	Breakaway	LT-05
22269	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	517+55, 18' RT	LED/53W	Breakaway	LT-05
22271	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	518+50, 18' RT	LED/53W	Breakaway	LT-05
22273	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	519+41, 19' RT	LED/53W	Breakaway	LT-06
22275	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	520+08, 18' RT	LED/53W	Breakaway	LT-06
22277	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	521+14, 18' RT	LED/53W	Breakaway	LT-06
22279	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	521+99, 18' RT	LED/53W	Breakaway	LT-06
22281	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	522+62, 18' RT	LED/53W	Breakaway	LT-06
22283	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	523+59, 18' RT	LED/53W	Breakaway	LT-07
22285	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	524+57, 28' RT	LED/53W	Breakaway	LT-07
22287	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	8'	525+50, 36' RT	LED/53W	Breakaway	LT-07
22289	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	8'	526+45, 35' RT	LED/53W	Breakaway	LT-07
22291	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	10'	527+44, 36' RT	LED/53W	Breakaway	LT-07
22293	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	17'	528+41, 44' RT	LED/53W	Breakaway	LT-08
22295	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	529+32, 43' RT	LED/53W	Breakaway	LT-08
22297	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	15'	530+27' 42' RT	LED/53W	Breakaway	LT-08
22299	16" BLACK FIBERGLASS WITH COLONIAL POST TOP	33'	531+16, 59' RT	LED/53W	Breakaway	LT-08

\*\* - POLE OFFSET MEASURED TO THE CENTER OF THE POLE



**WALLACE MONTGOMERY**  
ENGINEERING-PLANNING-SURVEYING-CONSTRUCTION-MONITORING  
10150 York Road, Suite 200  
Hunt Valley, Maryland 21030  
410.684.9025 Tel / 410.687.0925 Fax  
www.wallacemontgomery.com

APPROVALS	REVISIONS
DESIGNER	
CHECKED	
DESIGNED	
DATE	

## UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

CMH, Design Section

APPROVED

CMH, Division of Engineering Services

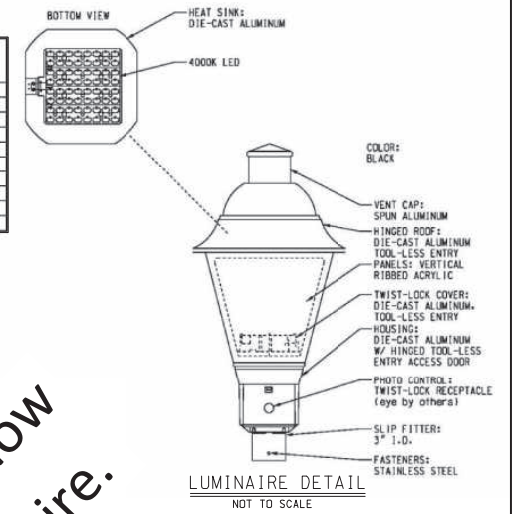
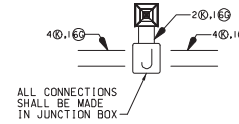
Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

PLAN SHEET LT-01  
LIGHTING PLANS  
MD 355 - CLARKSBURG  
SHARED USE PATH  
DETAILS AND SCHEDULES

Project No.: C.I.P. PR. # 301744 SHEET 54 of 88

CATEGORY CODE NO.	DESCRIPTION	UNIT	QUANTITY
800000	PEDESTRIAN POLE AND LUMINAIRE	EA	29
801003	CONCRETE FOR LIGHT FOUNDATION	CY	40
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	2400
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	2270
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	LF	120
832016	CABLE - 1 CONDUCTOR, NO 6 AWG, TYPE USE, 600V	LF	8890
832019	CABLE - 1 CONDUCTOR, NO 10 AWG, TYPE THWN/THHN, 600V	LF	1400
834002	CONNECTOR KIT - TYPE II	EA	18
834003	CONNECTOR KIT - TYPE III	EA	40
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	29

## PAY ITEMS



To be revised to show  
Acorn Top luminaire.



### Sequence of Events for Property Owners Required to Comply With Forest Conservation and/or Tree-Save Plans

#### Pre-Construction

1. At the pre-construction meeting, a meeting order detailing all disturbances shall be issued and signed by the County and the applicant. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins.

2. No clearing or grubbing shall begin until the applicant has been approved by the County. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins.

- A. Root pruning
- B. Grubbing
- C. Fencing
- D. Erosion control
- E. Tree relocation

Measures not specified in the Forest Conservation Plan may be required as determined by the local conservation inspector in consultation with the applicant.

3. All trees to be removed shall be identified and marked with a red dot and a red line indicating the removal location. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins.

4. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins.

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15. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins.

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27. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins.

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31. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins. The applicant shall be responsible for obtaining all necessary permits and approvals from the County and the State before construction begins.



#### LEGEND

- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT

PROPOSED SHARED USE PATH

WETLANDS

125' STREAM BUFFER

HISTORIC DISTRICT

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT 443.942.9199 X101 DC 240.342.2329x101  
WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV/P	WATERSHED	LITTLE SENeca CREEK
TRIBUTARY	ROCK CREEK	MAP SCALE	24031C 01600
TAX MAP	EW341.EW121	200' SCALE	24031C 01600
SCALE	AS SHOWN	DATE	AUGUST 2019
PROJ. NO.	15-138	SHEET NO.	L-1.1A

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

**DEVELOPER'S CERTIFICATE**

The undersigned agrees to execute all the terms of the Approved Final Forest Conservation Plan, including, but not limited to, the following: forest clearing, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**

Project Name: **MD 355 - CLARKSBURG SHARED USE PATH**

Project Manager: **YASAMIN ESMAILI - PROJECT MANAGER**

Address: **101 MONROE ST, 10TH FLOOR  
ROCKVILLE, MD 20850**

Phone and Email: **240-777-7226  
Yasamin.Esmaili@MontgomeryCountyMD.gov**

Signature: \_\_\_\_\_

#### CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MUNICIPAL AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

6.18.2020  
DATE

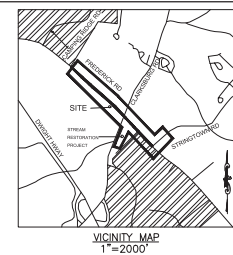
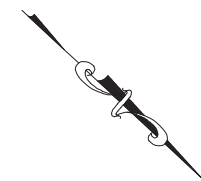
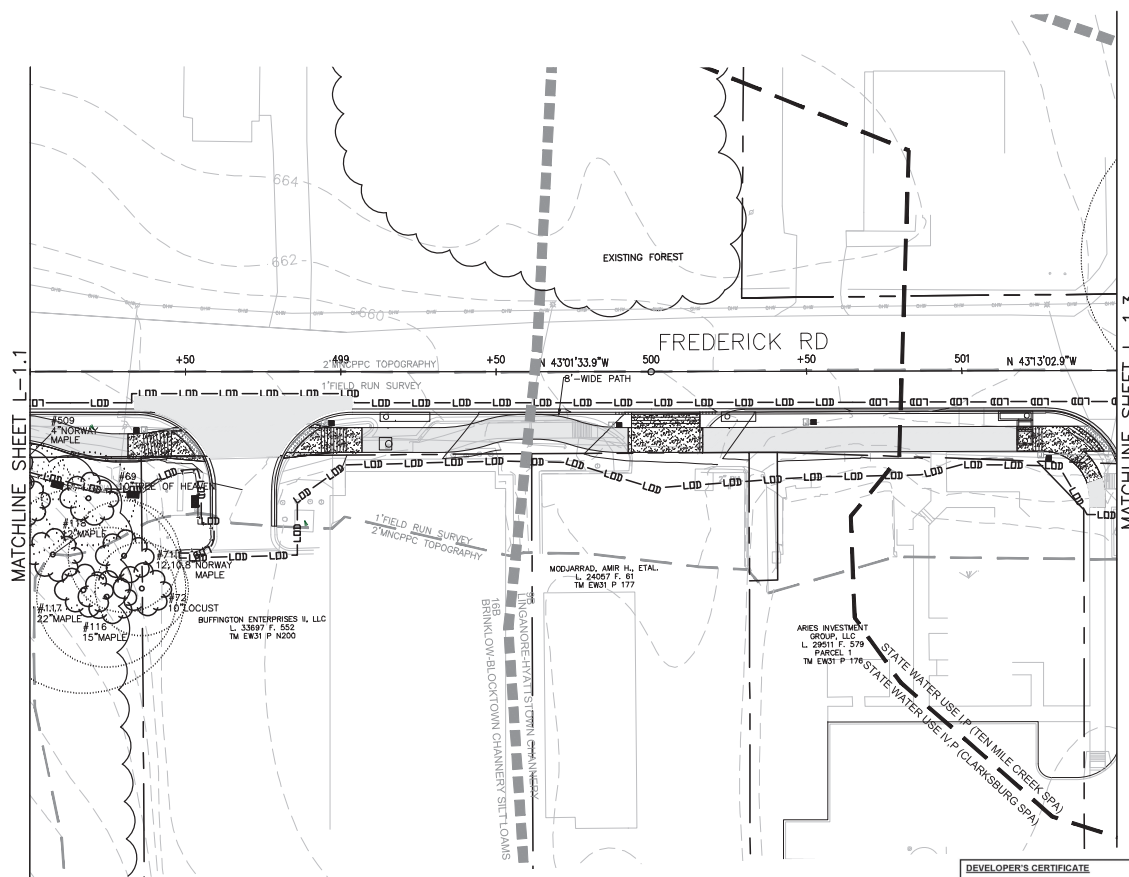
MICHAEL A. NORTON  
MONT / COMAR 08.19.06.01  
QUALIFIED PROFESSIONAL

**PLAN SHEET L-1.1A**  
**PRELIMINARY FOREST**  
**CONSERVATION PLAN OVERALL**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: CLJP, PE, 0507144 SHEET 62 of 88







### LEGEND

- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE ≥24" AND <30" DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE ≥30" DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- PROPOSED LIGHT POLES
- PROPOSED MITIGATION TREE



\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES, PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NOPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

**WALLACE MONTGOMERY**  
Landscape Architecture + Environmental Planning  
19189 York Road, Suite 200  
Hunt Valley, Maryland 20830  
410.426.2500 FAX 410.426.7825 Fax  
www.wallacemontgomery.com

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT. 443.542.9199 x101 DC 240.342.2329x101  
www.nortonlanddesign.com

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SEMECA CREEK	UTMA FLOODPLAIN	MAP PAGE: 1
TRIBUTARY	ROCK CREEK				24031C 01600
TAX MAP	EW341,EW121	200 SHEET	233NW11	ADC MAP	PAGE 9
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.2

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

**DEVELOPER'S CERTIFICATE**  
The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_ including, financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**  
Printed Company Name

Contact Person or Owner: **YASAMIN ESMAILI - PROJECT MANAGER**  
Printed Name

Address: **101 MONROE ST., 10TH FLOOR  
ROCKVILLE, MD 20850**

Phone and Email: **240-777-7226  
Yasamin.Esmaili@MontgomeryCountyMD.gov**

Signature: \_\_\_\_\_

**CERTIFICATION OF QUALIFIED PROFESSIONAL**  
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

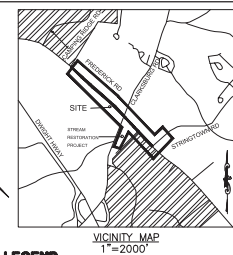
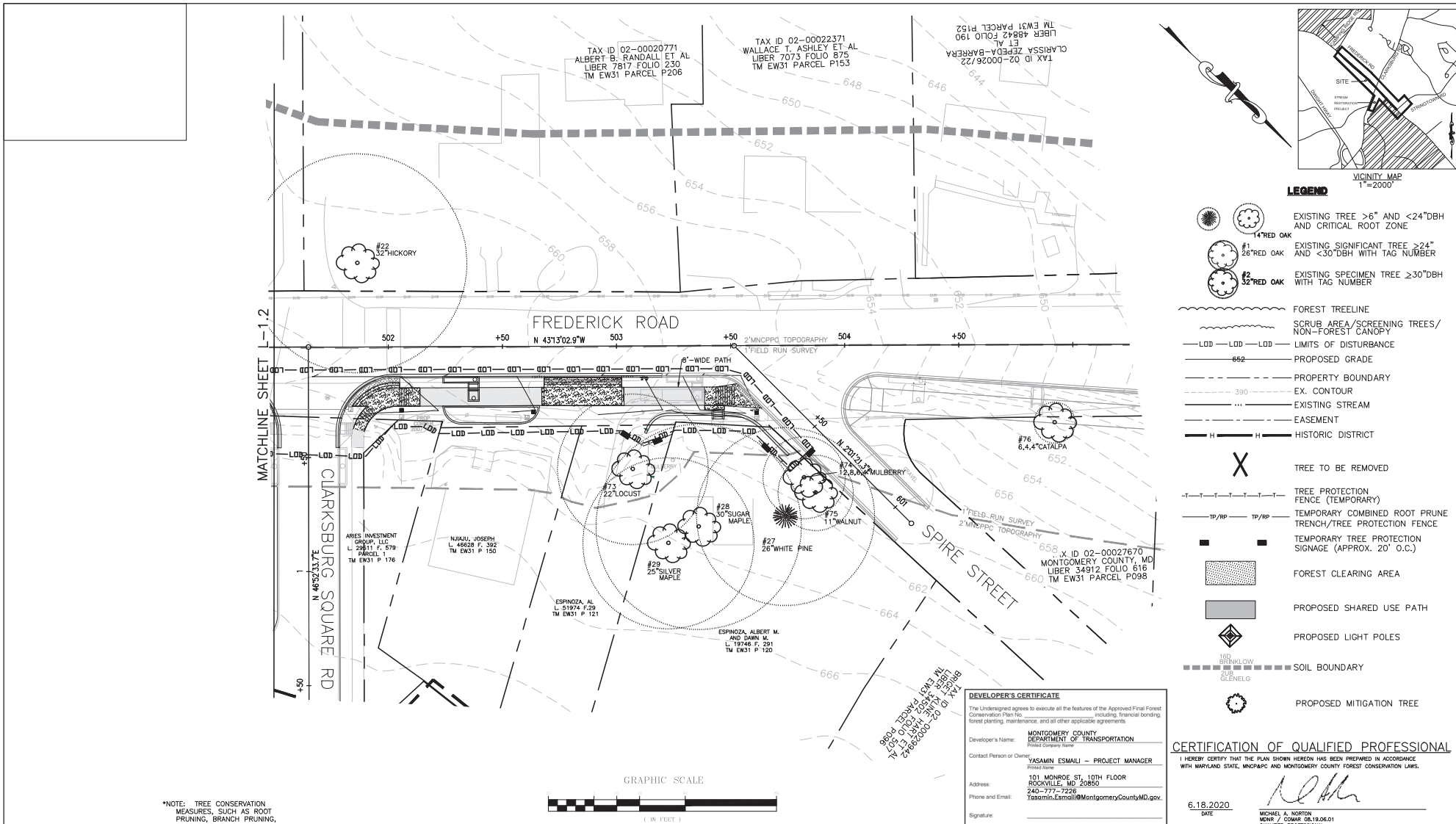
6.18.2020  
DATE

*Michael A. Norton*  
MICHAEL A. NORTON  
MONTGOMERY COUNTY  
QUALIFIED PROFESSIONAL

**PLAN SHEET L-1.2  
PRELIMINARY FOREST  
CONSERVATION PLAN  
MD 355 - CLARKSBURG  
SHARED USE PATH**

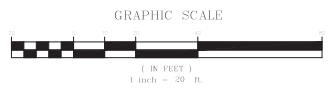
9/20/18

Designed by:	H.J.	Drawn by:	H.J.	Checked by:	M.N.	Project No.:	C.J.P. PR. #507144	SHEET	64	of	85
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**LEGEND**

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\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE L.O.D. LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPFC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

**WALLACE MONTGOMERY**  
Conservation Planning & Environmental Services  
19180 York Road, Suite 200  
Rockville, Maryland 20850  
410.486.2500 Tel / 410.487.8828 Fax  
www.wallacemontgomery.com

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042  
BALT. 443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/V/P	WATERSHED	LITTLE SENECA CREEK	UTMA FLOODPLAIN MAP PAGE	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	24031C 0160D	ADC MAP	24031C 0160D
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.3

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**DEVELOPER'S CERTIFICATE**  
The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_, including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**  
Contact Person or Owner: **YASAMIN ESMAILI - PROJECT MANAGER**  
Address: **101 MONROE ST, 10TH FLOOR ROCKVILLE, MD 20850**  
Phone and Email: **240-777-7226 / yasamin.esmaili@montgomerycountymd.gov**  
Signature: \_\_\_\_\_

**CERTIFICATION OF QUALIFIED PROFESSIONAL**  
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

6.18.2020  
DATE

MICHAEL A. NORTON  
MEMBER / COUNCIL 05.18.06.01  
QUALIFIED PROFESSIONAL

**PLAN SHEET L-1.3**  
**PRELIMINARY FOREST CONSERVATION PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

Montgomery County  
Department of Transportation  
100 Edison Park Drive, 4th Floor  
Gaithersburg, MD 20878

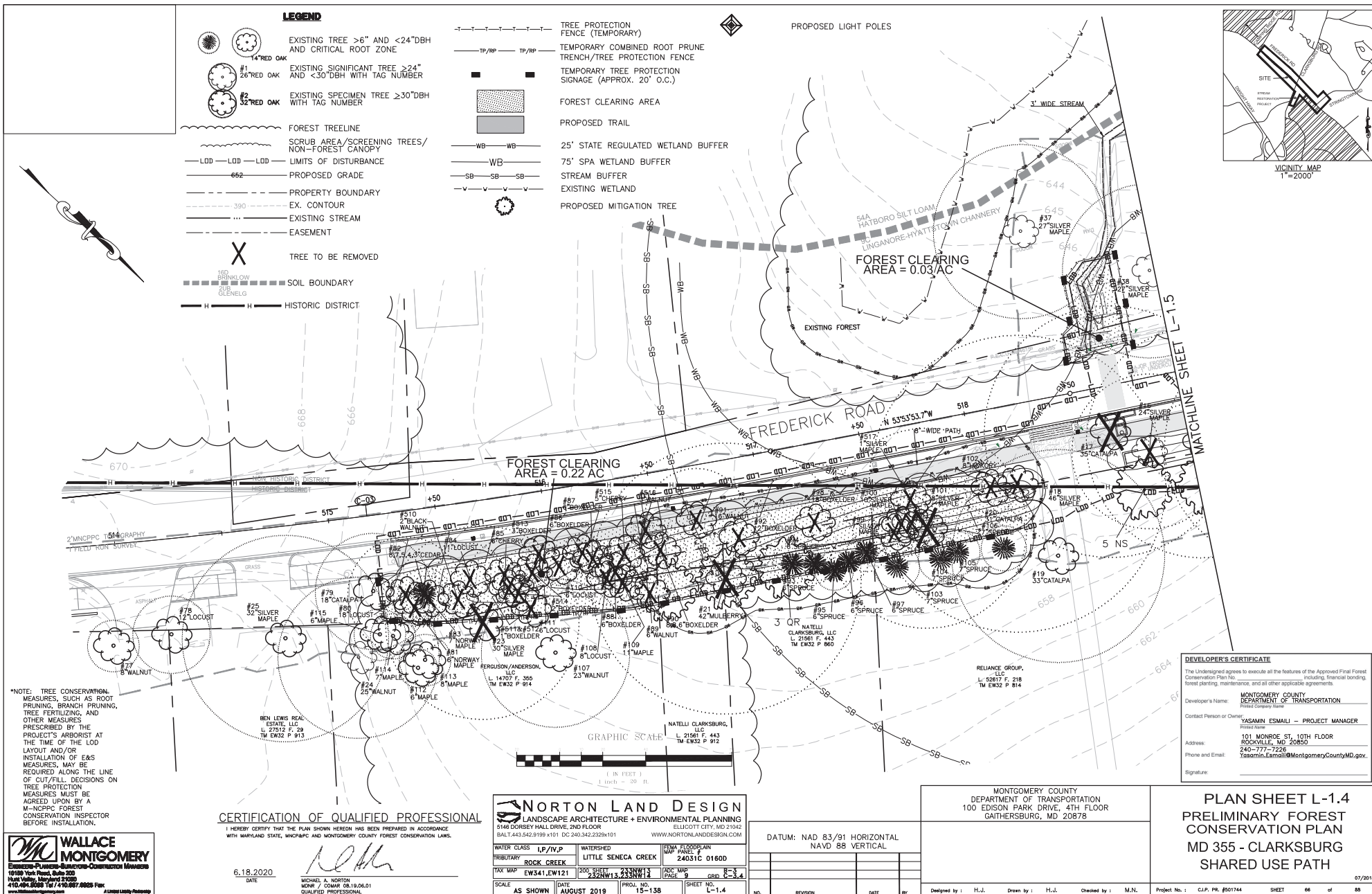
Designed by:	H.J.	Drawn by:	H.J.	Checked by:	M.N.	Project No.:	C.J.P. PRJ #501744	SHEET	65	of	85
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9/20/18

DRILL HOLES

DRILL HOLES

DRILL HOLES

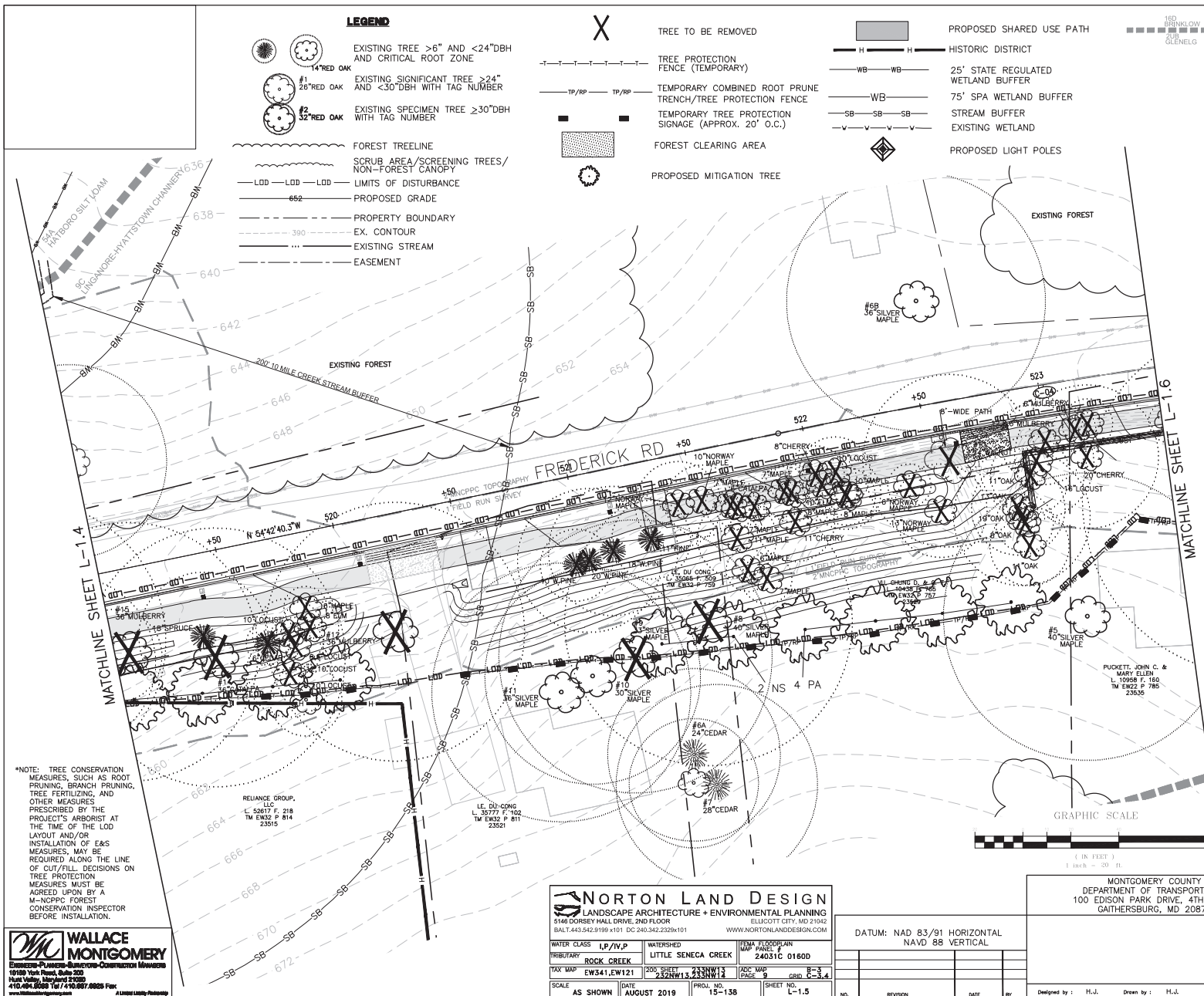




DRILL HOLES

DRILL HOLES

DRILL HOLES



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**WALLACE MONTGOMERY**  
DESIGNER  
19180 York Road, Suite 200  
Rockville, Maryland 20850  
410.426.2500 TOLL FREE 800.457.0825 Fax  
www.wallacemontgomery.com A LIMITED LIABILITY PARTNERSHIP

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042  
BALT. 443.542.9199 X101 DC 240.342.2329 X101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/V/P	WATERSHED	LITTLE SEMECA CREEK	UTMA FLOODPLAIN MAP PAGE #	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	24031C 01600	ADC MAP PAGE	9
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.5

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N.

Project No.: C.J.P. PE #507144 SHEET 67 of 88

**DEVELOPER'S CERTIFICATE**  
The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_ including, financial bonding, forest planting, maintenance, and all other applicable agreements.  
Developer's Name: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
Contact Person or Chief: YASAMIN ESMALI - PROJECT MANAGER  
Address: 101 MONROE ST, 10TH FLOOR ROCKVILLE, MD 20850  
Phone and Email: 240-777-7226 Y.esmali@montgomerycountymd.gov  
Signature: \_\_\_\_\_

**CERTIFICATION OF QUALIFIED PROFESSIONAL**  
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

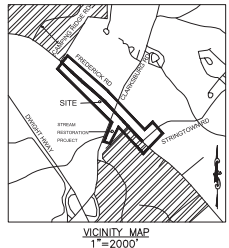
6.18.2020  
DATE

*Michael A. Norton*  
MICHAEL A. NORTON  
MEMBER / BOARD 05.18.06.01  
QUALIFIED PROFESSIONAL

**PLAN SHEET L-1.5  
PRELIMINARY FOREST  
CONSERVATION PLAN  
MD 355 - CLARKSBURG  
SHARED USE PATH**

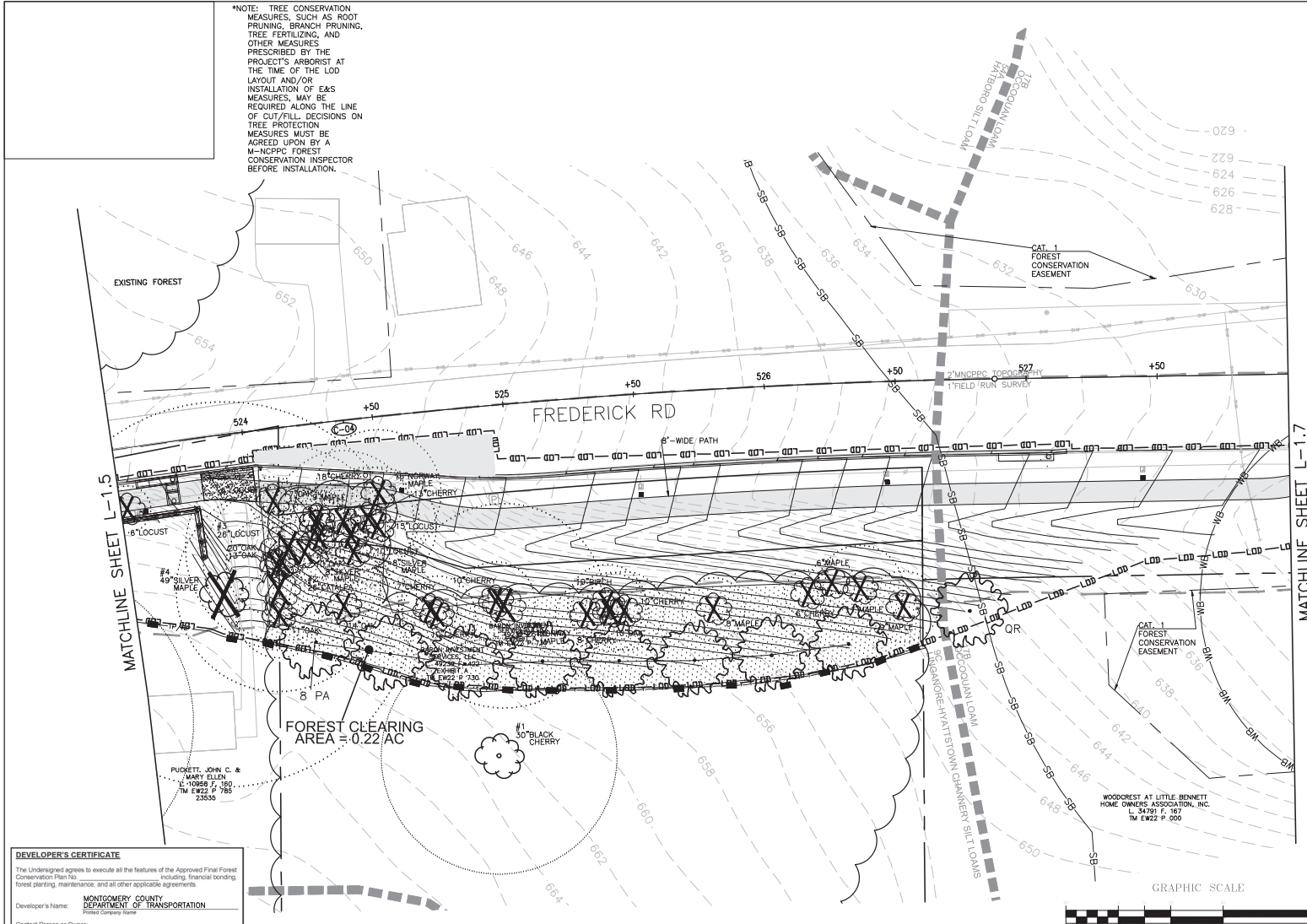
97/2018

\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.



# LEGEND

- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE ≥30" DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- 25' STATE REGULATED WETLAND BUFFER
- 75' SPA WETLAND BUFFER
- STREAM BUFFER
- EXISTING WETLAND
- PROPOSED LIGHT POLES
- SOIL BOUNDARY
- PROPOSED MITIGATION TREE



## DEVELOPER'S CERTIFICATE

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_ including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**

Contact Person or Owner: **YASAMIN ESMALI - PROJECT MANAGER**

Address: **101 MONROE ST, 10TH FLOOR ROCKVILLE, MD 20850**

Phone and Email: **240-777-7226 Yasamin.Esmali@MontgomeryCountyMD.gov**

Signature: \_\_\_\_\_

**WALLACE MONTGOMERY**

19180 York Road, Suite 200  
Rockville, Maryland 20850  
410.486.2500 Tel / 410.487.0825 Fax  
www.wallacemontgomery.com

## CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

6.18.2020

DATE

MICHAEL A. NORTON  
MONTGOMERY COUNTY  
QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042  
BALT. 443.542.9199 X101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SENECA CREEK	MAP PAGE	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	24031C 01600	ADC MAP	9
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
		SHEET NO.	L-1.6		

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

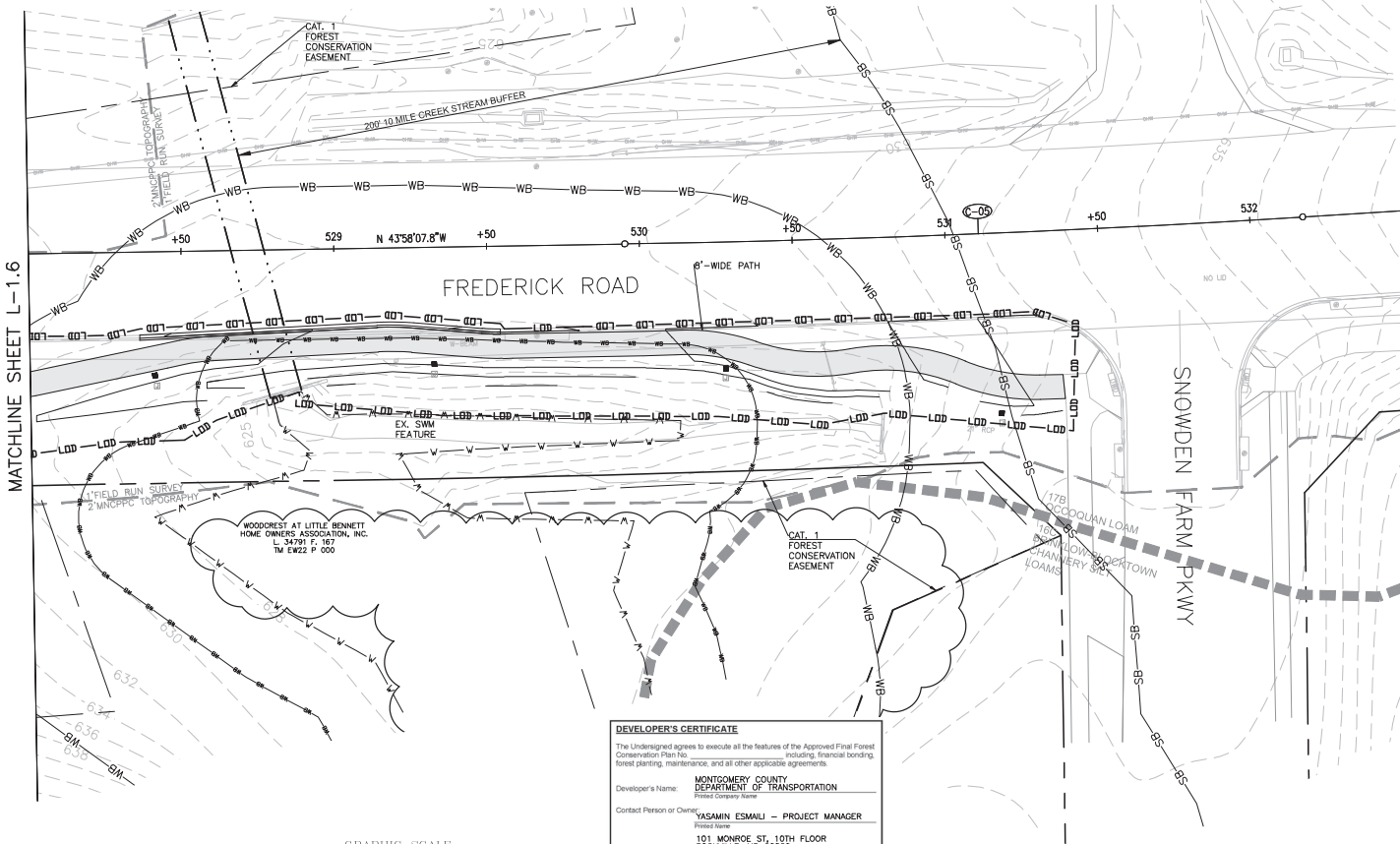
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by :	H.J.	Drawn by :	H.J.	Checked by :	M.N.
Project No. :	C.J.P. PRJ #501744	SHEET	68	of	88

## PLAN SHEET L-1.6 PRELIMINARY FOREST CONSERVATION PLAN MD 355 - CLARKSBURG SHARED USE PATH

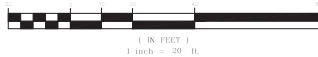
07/2018

\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.



MATCHLINE SHEET L-1.6

GRAPHIC SCALE



### CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MUNICIPAL AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

6.18.2020  
DATE

MICHAEL A. NORTON  
MONTGOMERY COUNTY  
QUALIFIED PROFESSIONAL

### DEVELOPER'S CERTIFICATE

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. \_\_\_\_\_, including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: **MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION**  
Contact Person or Owner: **YASAMIN ESMAILI - PROJECT MANAGER**  
Address: **101 MONROE ST., 10TH FLOOR, ROCKVILLE, MD 20850**  
Phone and Email: **240-777-7226, Yasamin.Esmaili@MontgomeryCountyMD.gov**  
Signature: \_\_\_\_\_

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042  
BALT. 443.542.9199 X101 DC 240.342.2329X101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SENECA CREEK	MAP PAGE	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	24031C 01600	ADC MAP PAGE	9
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.7

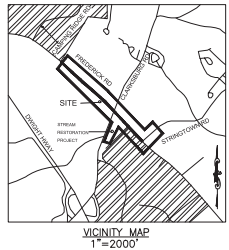
DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N.  
Project No.: C.J.P. PE #507144 SHEET 09 of 05

### PLAN SHEET L-1.7 PRELIMINARY FOREST CONSERVATION PLAN MD 355 - CLARKSBURG SHARED USE PATH



### LEGEND

-





DRILL HOLES

DRILL HOLES

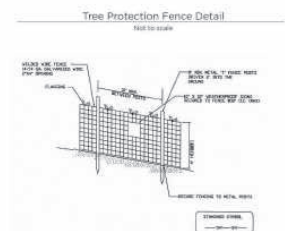
DRILL HOLES

Significant Specimen Tree Summary 24" +									
Tree #	Species	Scientific Name	DBH (in)	Canopy Area (sq ft)	Percent of CRZ	Tree	Comments	Status	Variance
1	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
2	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
3	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
4	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
5	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
6	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
7	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
8	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
9	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
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67	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
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98	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
99	FRAXINUS AMER	FRAXINUS AMER	26	1070	100%	FRAXINUS AMER	FRAXINUS AMER	100%	
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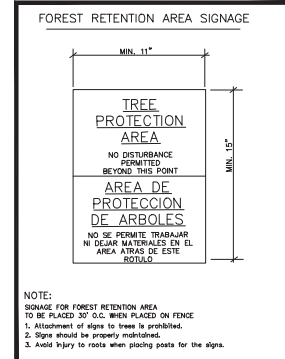
**WALLACE MONTGOMERY**  
Landscape Architecture  
19180 York Road, Suite 200  
Rockville, Maryland 20850  
410.466.2638 Fax 410.466.2639  
www.wallacemontgomery.com

**A LUMBER LUMBER COMPANY**

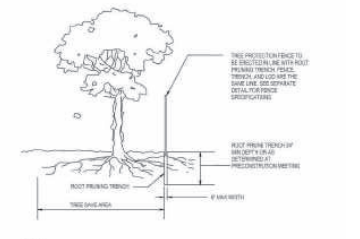


- NOTES
1. Practice may be combined with sediment control fencing.
  2. Location and limits of fencing should be coordinated in field with arborist.
  3. Boundaries of protection area should be staked prior to installing protection device.
  4. Root damage should be avoided.
  5. Protection signage is required.
  6. Fencing shall be maintained throughout construction.

Montgomery County Planning Department • 100 N. 10th St. • Rockville, MD 20850

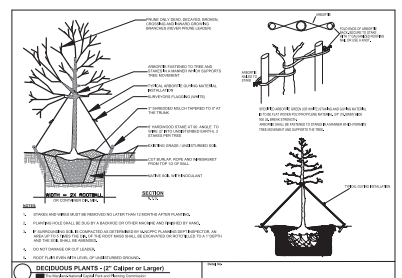


NOTE: SIGNAGE FOR FOREST RETENTION AREA TO BE PLACED 50' O.C. WHEN PLACED ON FENCE. 1. Attachment of signs to trees is prohibited. 2. Signs should be properly maintained. 3. Avoid injury to roots when placing posts for the signs.



- NOTES
1. RETENTION AREAS MUST BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
  2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND PLACED PRIOR TO FENCING.
  3. EXACT LOCATION OF A FENCE SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION AND PLANNING.
  4. FENCE SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FOREST CONSERVATION AND PLANNING.
  5. ROOTS SHALL BE CAREFULLY CUT USING WIRE CUTTING KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
  6. ALL PLANTING MUST BE DISCUSSED WITH LUMBER SHOWN ON PLANS OR AS AUTHORIZED BY WRITING BY THE FOREST CONSERVATION AND PLANNING.

Root Pruning Detail



CERTIFICATION OF QUALIFIED PROFESSIONAL  
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MONTGOMERY COUNTY, MARYLAND AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

6.18.2020  
DATE  
MICHAEL A. NORTON  
MONTGOMERY COUNTY  
REGISTERED PROFESSIONAL

PROPOSED LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY
TREES						
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	13
PA	PLATANUS X ACERIFOLIA	LONDON PLANETREE	2" CAL.	B&B	SHOWN	12
OR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL.	B&B	SHOWN	4

DEVELOPER'S CERTIFICATE  
The undersigned agrees to provide all the features of the Approved Final Forest Conservation Plan No. 101 MONROE ST, 10TH FLOOR ROCKVILLE, MD 20850 342-777-7226 Yashmin.Kamali@MontgomeryCountyMD.gov  
Developer's Name: MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
Contact Person or Owner: YASHMIN KAMALI - PROJECT MANAGER  
Address: 101 MONROE ST, 10TH FLOOR ROCKVILLE, MD 20850 342-777-7226 Yashmin.Kamali@MontgomeryCountyMD.gov  
Signature:

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

PLAN SHEET L-1.9  
PRELIMINARY FOREST  
CONSERVATION PLAN NOTES  
MD 355 - CLARKSBURG  
SHARED USE PATH

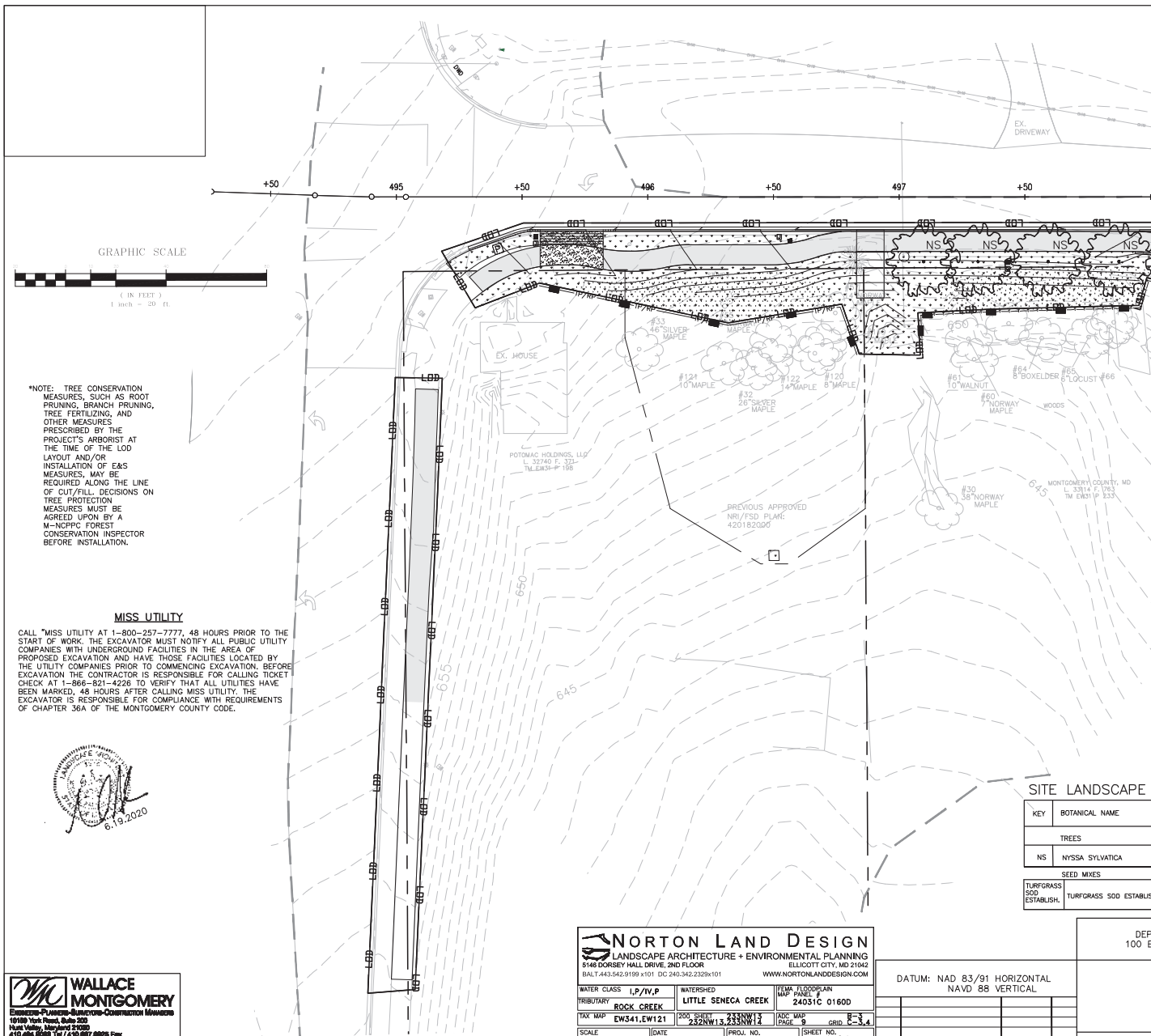
NO.	REVISION	DATE	BY
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Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. MC 801744 SHEET 71 of 88

DRILL HOLES

DRILL HOLES

DRILL HOLES



\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

#### MISS UTILITY

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED. 48 HOURS AFTER CALLING MISS UTILITY, THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.



**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT 443.042.9189 K101 DC 240.342.2329x101  
WWW.NORTONLANDDESIGN.COM

**WATER CLASS** I,P/IV,P  
**WATERSHED** LITTLE SENECA CREEK  
**TRIBUTARY** ROCK CREEK  
**TAX MAP** EW341,EW121  
**SCALE** AS SHOWN  
**DATE** SEPTEMBER 2019  
**PROJ. NO.** 15-138  
**SHEET NO.** L-2.1

**ITEM, TOPOLAND**  
**MAP PAGE** 24031C 01600  
**ARC MAP** 24031C 01600  
**DATE** 9-15-19  
**GRID** F-3.4

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO. REVISION DATE BY

#### SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL	B&B	SHOWN	4	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS			TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226 STABILIZATION

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

#### PLAN SHEET L-2.1 LANDSCAPE PLAN

#### MD 355 - CLARKSBURG SHARED USE PATH

Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. PK. #507144 SHEET 72 of 85



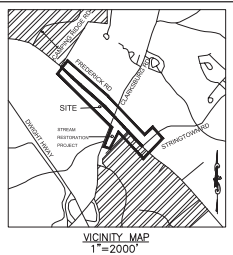
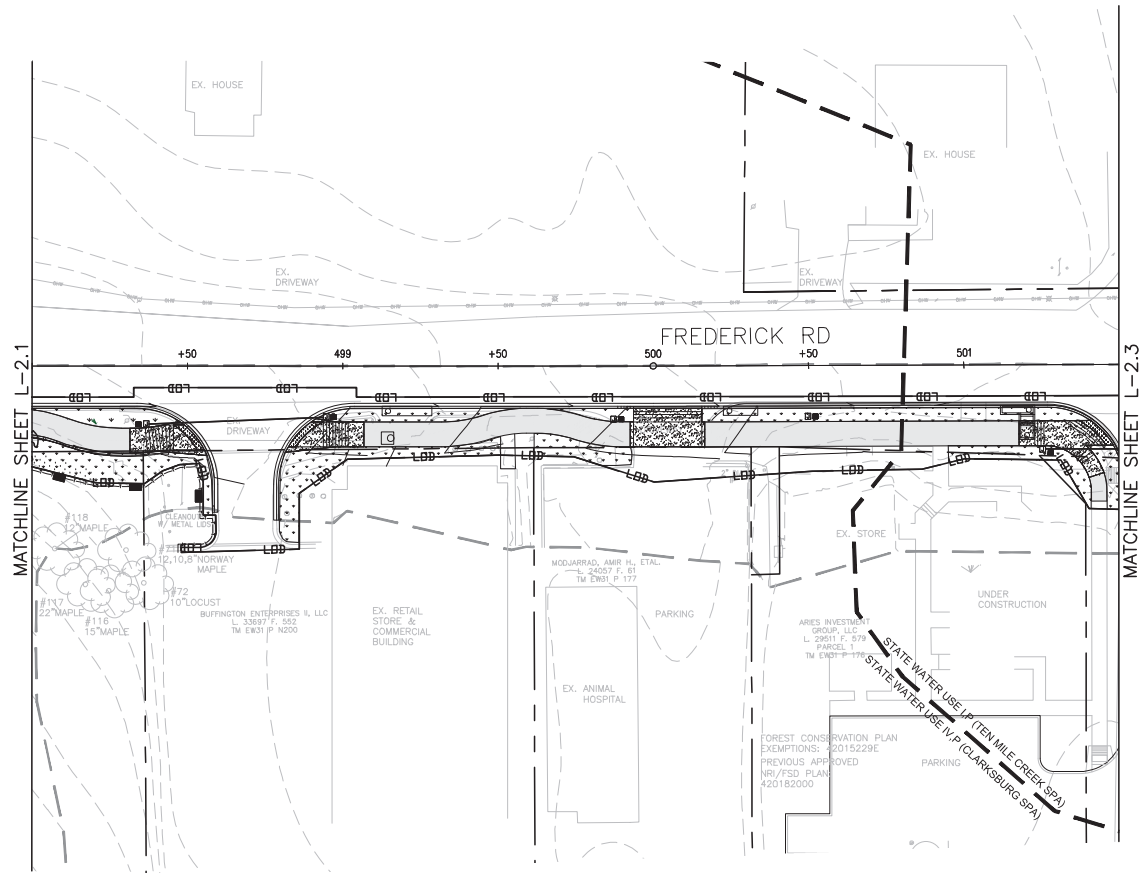
DRILL HOLES

DRILL HOLES

DRILL HOLES

# SITE LANDSCAPE PLANT SCHEDULE

SEED MIXES		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS					



## LEGEND

- 14" RED OAK EXISTING TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NRPP FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

## MISS UTILITY

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**WALLACE MONTGOMERY**  
Division of Montgomery Department of Transportation  
19180 York Road, Suite 200  
Gaithersburg, Maryland 20878  
410.486.2500 Tel / 410.487.0000 Fax  
www.wallacemontgomery.com

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**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR  
BALT. 443.542.9199 x101 DC 240.342.2329 x101  
www.nortonlanddesign.com

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SENECA CREEK	UTMA FLOODPLAIN	24031C 01600
TRIBUTARY	ROCK CREEK	200 SHEET	233NW13	ADC MAP	9
TAX MAP	EW341.EW121	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
SCALE	AS SHOWN	SHEET NO.	L-2.2		

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by :	H.J.	Drawn by :	H.J.	Checked by :	M.N.
Project No. :	C.J.P. PK. #507144	SHEET	73	of	88

**PLAN SHEET L-2.2  
LANDSCAPE PLAN**

**MD 355 - CLARKSBURG  
SHARED USE PATH**

6-19-2020

DRILL HOLES

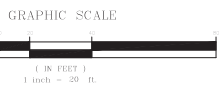
DRILL HOLES

DRILL HOLES

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SITE LANDSCAPE PLANT SCHEDULE

SEED MIXES					
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT - TALL FESCUE/KENTUCKY BLUEGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226
				STABILIZATION	



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**WALLACE MONTGOMERY**  
Environmental Planning & Construction Services  
19180 York Road, Suite 200  
Hunt Valley, Maryland 21039  
410.486.2600 Tel / 410.487.0025 Fax  
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LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042  
BALT. 443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	1P/IV,P	WATERSHED	LITTLE SENECA CREEK	UTMA FLOODPLAIN	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	233NW13	ADC MAP	8-3-4
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.3

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

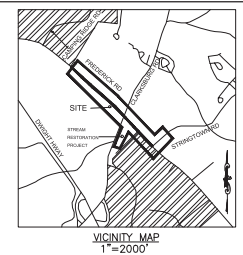
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N.  
Project No.: C.J.P. PK. #507144 SHEET 74 of 85

**PLAN SHEET L-2.3**  
**LANDSCAPE PLAN**

**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

5/7/2018



**LEGEND**

- EXISTING TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:  
SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

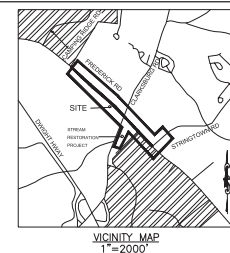
DRILL HOLES

DRILL HOLES

DRILL HOLES

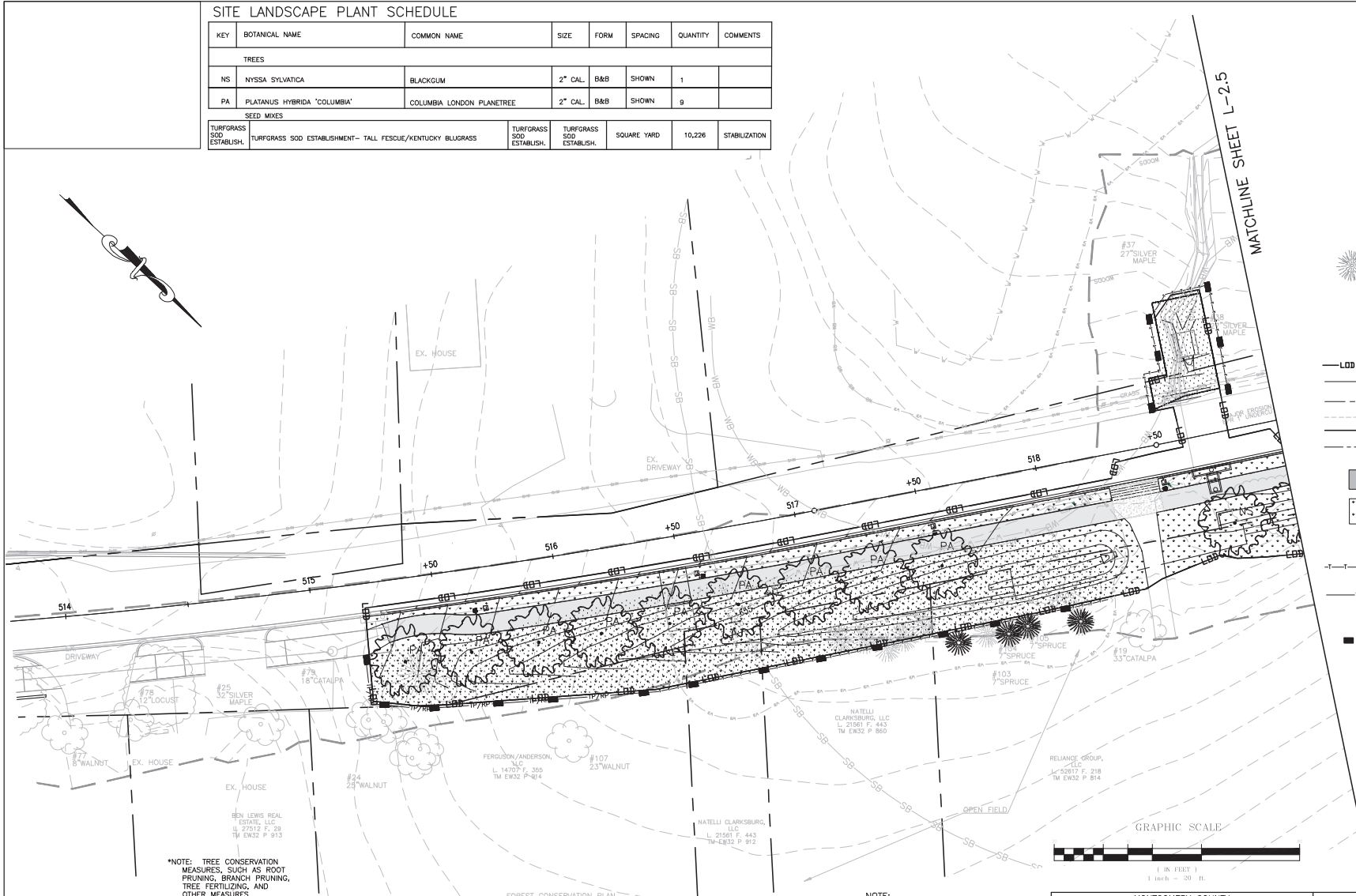
# SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	1	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	9	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



## LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)



\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NRCPFC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

## MISS UTILITY

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED. 48 HOURS AFTER CALLING MISS UTILITY, THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

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WATER CLASS	1P/IV,P	WATERSHED	LITTLE SENECA CREEK	UTMA FLOODPLAIN	MAP PAGE: 1
TRIBUTARY	ROCK CREEK				24031C 01600
TAX MAP	EW341,EW121	2005 SHEET	233NW13	ADC MAP	PAGE 9
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.4

NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

**MONTGOMERY COUNTY**  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by :	H.J.	Drawn by :	H.J.	Checked by :	M.N.
Project No. :	C.J.P. PK. #507144	SHEET	75	of	85

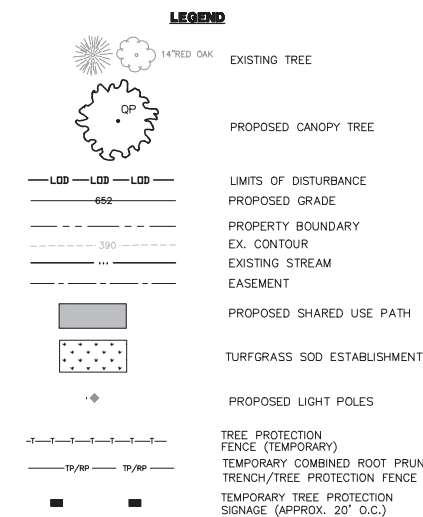
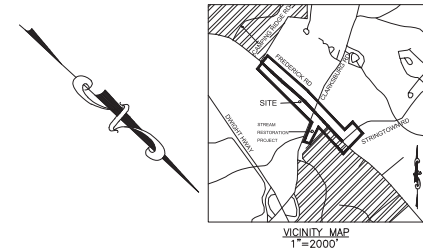
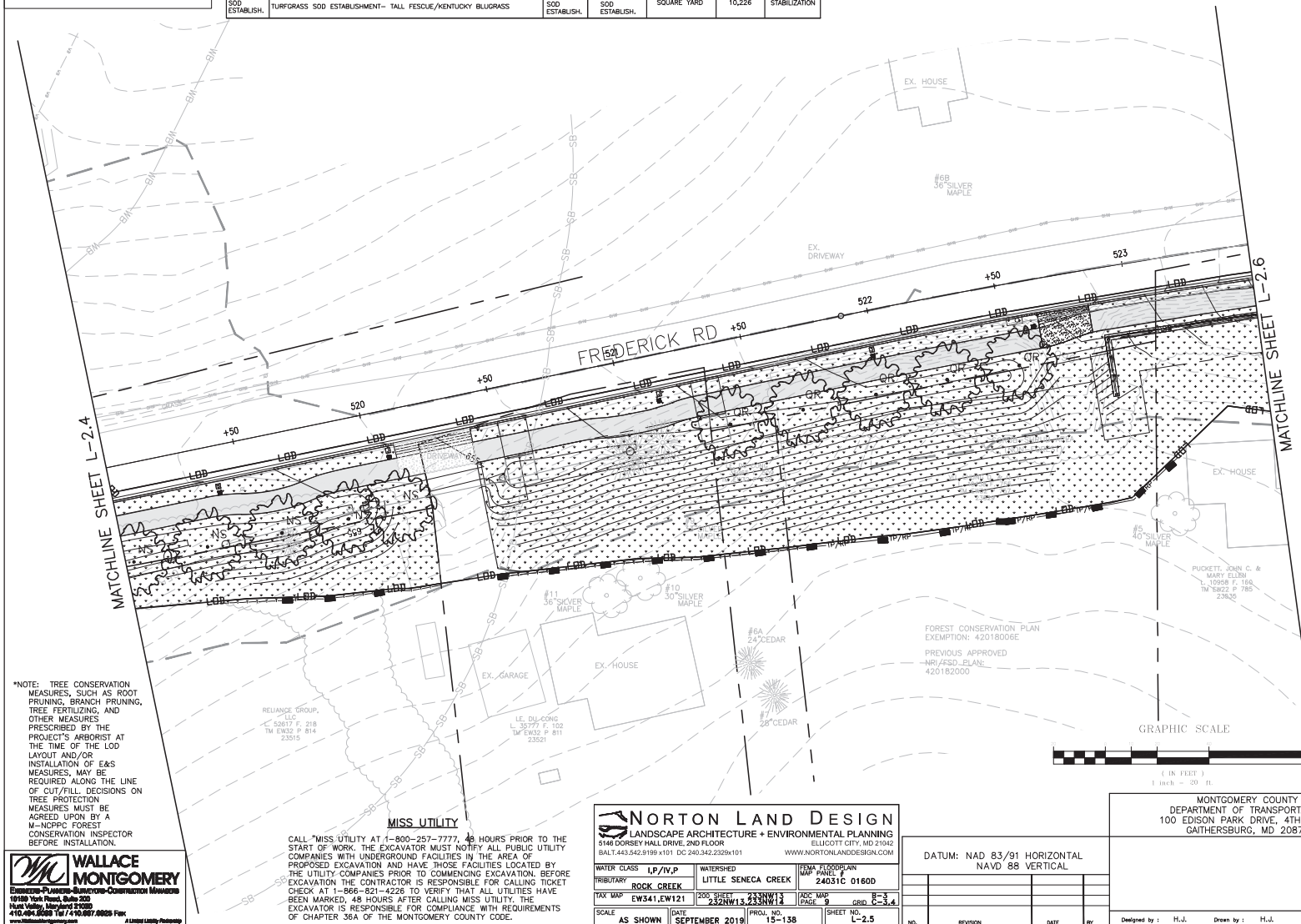
## PLAN SHEET L-2.4 LANDSCAPE PLAN MD 355 - CLARKSBURG SHARED USE PATH



**WALLACE MONTGOMERY**  
Landscape Architecture + Environmental Planning  
19188 York Road, Suite 200  
Hunt Valley, Maryland 21039  
410.486.2500 Tel / 410.487.0828 Fax  
www.wallacemontgomery.com

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NOTE:  
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CLEARING & REFORESTATION INFORMATION.



PLAN SHEET L-2.5  
LANDSCAPE PLAN

MD 355 - CLARKSBURG  
SHARED USE PATH

07/201

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

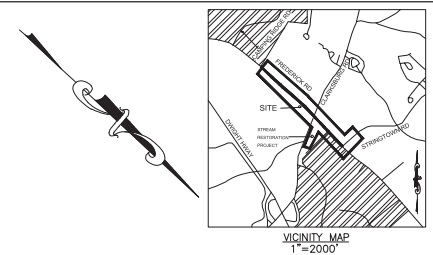
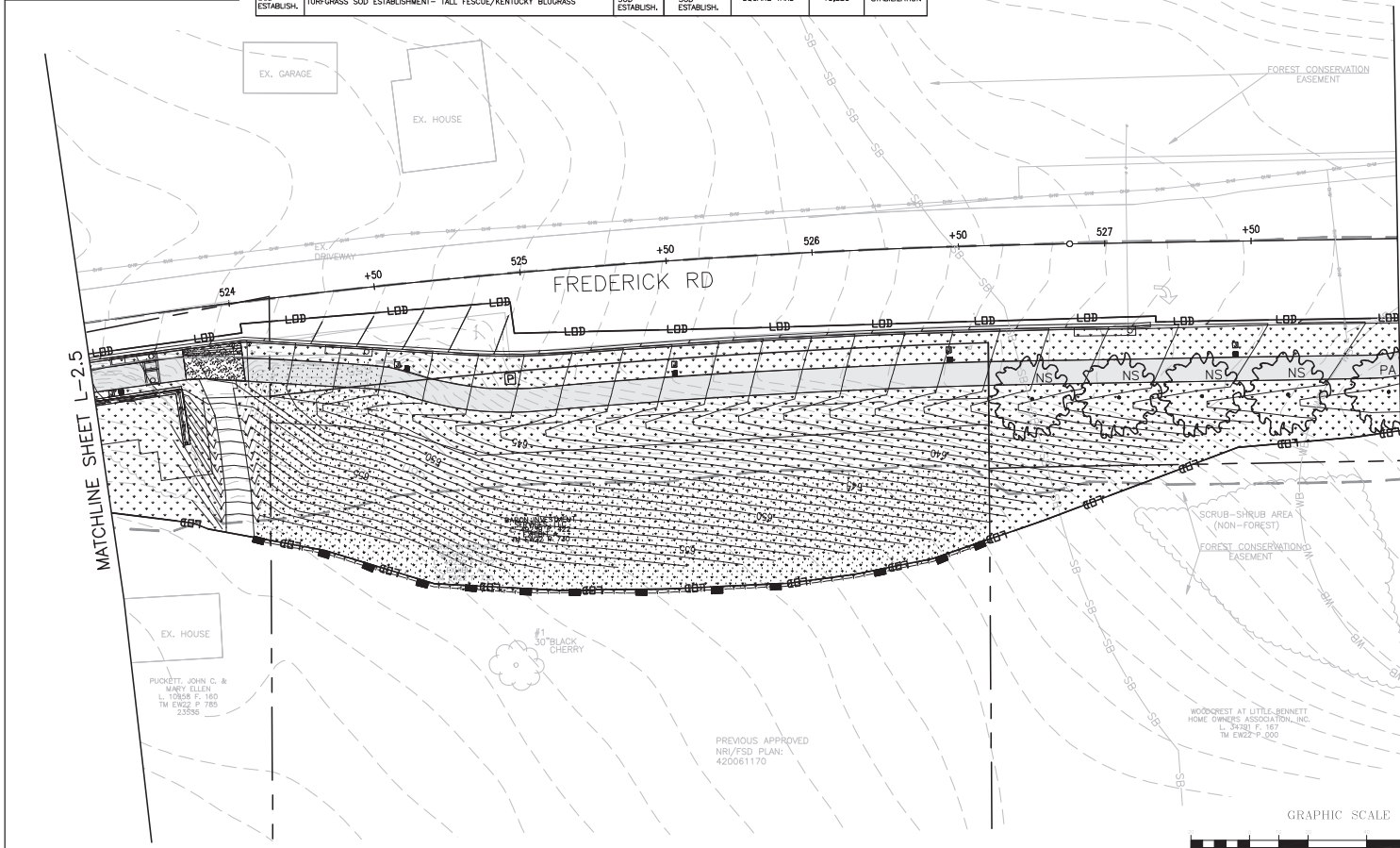
NO.	REVISION	DATE	BY

Designed by : H.J.      Drawn by : H.J.      Checked by : M.N.

Project No. :	C.J.P. PR. #501744	SHEET	76	of	88
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# SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	4	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	1	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT - TALL FESCUE/KENTUCKY BLUEGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



- LEGEND**
- 14" RED OAK
  - EXISTING TREE
  - PROPOSED CANOPY TREE
  - LDD LDD LDD
  - 652
  - LIMITS OF DISTURBANCE
  - PROPOSED GRADE
  - PROPERTY BOUNDARY
  - EX. CONTOUR
  - EXISTING STREAM
  - EASEMENT
  - PROPOSED SHARED USE TRAIL
  - TURFGRASS SOD ESTABLISHMENT
  - PROPOSED LIGHT POLES
  - TREE PROTECTION FENCE (TEMPORARY)
  - TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
  - TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

6.19.2020

\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NRPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

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**MISS UTILITY**

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WATER CLASS I/P/V/P WATERSHED LITTLE SEMECA CREEK FEMA FLOODPLAIN MAP PAGE 24031C 01600  
 TRIBUTARY ROCK CREEK  
 TAX MAP EW341,EW121 200 SHEET 233NW13 ADC MAP PAGE 9 CDD 8-3-4  
 SCALE AS SHOWN DATE SEPTEMBER 2019 PROJ. NO. 15-138 SHEET NO. L-2.6

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

**PLAN SHEET L-2.6**  
**LANDSCAPE PLAN**

**MD 355 - CLARKSBURG**  
**SHARED USE PATH**

07/2018

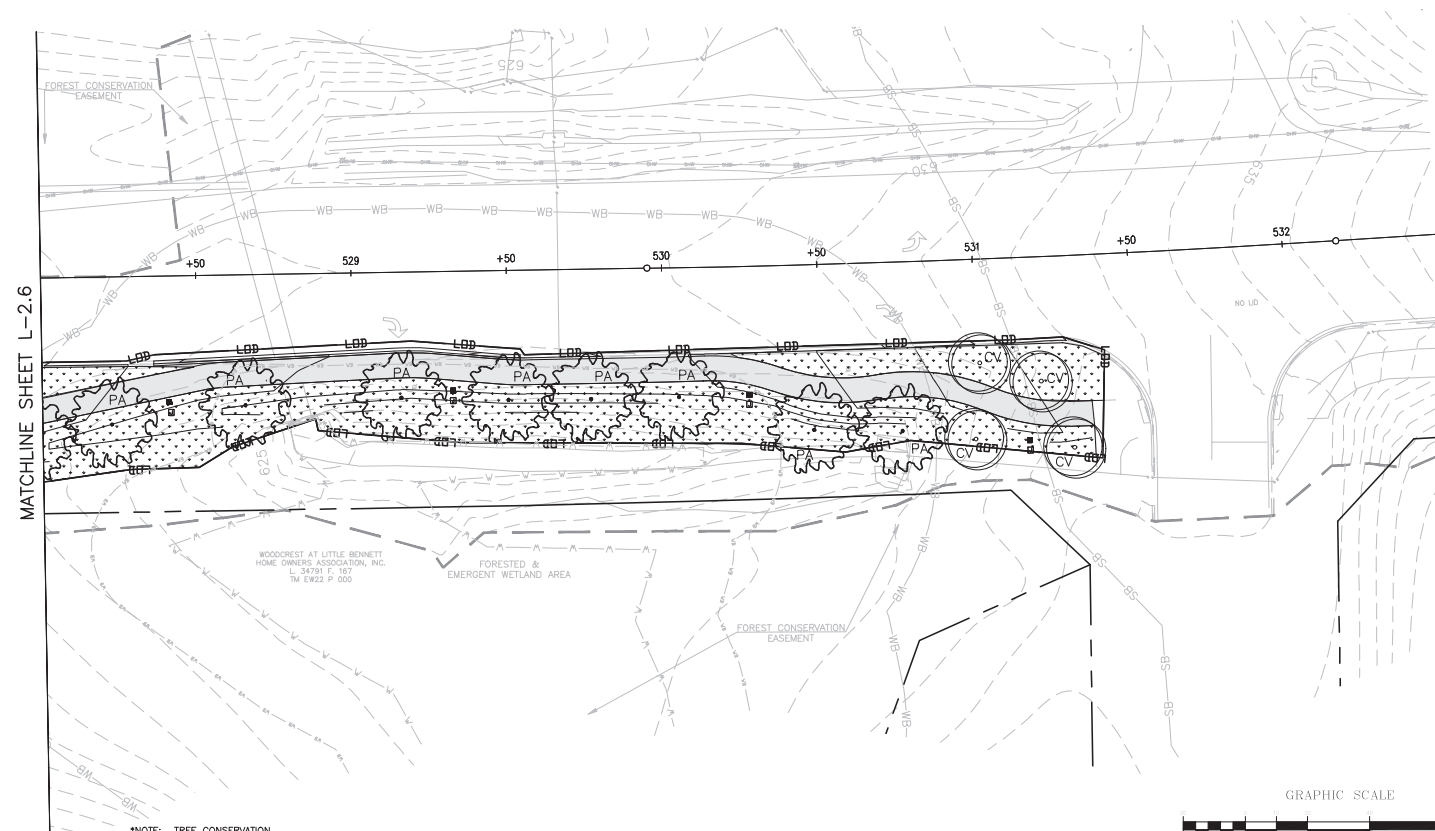
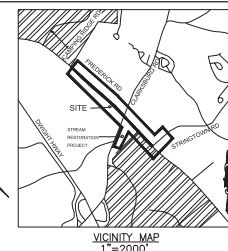
Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. PR. #501744 SHEET 77 of 85



# SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CV	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	7'-8'	B&B	SHOWN	4	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	8	

SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS			TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226
							STABILIZATION



## LEGEND

- 14" RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- PROPOSED ORNAMENTAL TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES

NOTE:  
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CLEARING & REFORESTATION INFORMATION.



## MISS UTILITY

\*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE LINE OF CUT/FILL. DECISIONS ON TREE PROTECTION MEASURES MUST BE AGREED UPON BY A M-NCPPC FOREST CONSERVATION INSPECTOR BEFORE INSTALLATION.

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NORTON LAND DESIGN			
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WWW.NORTONLANDDESIGN.COM			
WATER CLASS	I/P/V/P	WATERSHED	LITTLE SENECA CREEK
TRIBUTARY	ROCK CREEK	WATER SHED	LITTLE SENECA CREEK
TAX MAP	EW341.EW121	200' SHEET	233NW13
SCALE	AS SHOWN	DATE	SEPTEMBER 2019
PROJ. NO.	15-138	SHEET NO.	L-2.7

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by: H.J. Drawn by: H.J. Checked by: M.N.

## PLAN SHEET L-2.7 LANDSCAPE PLAN

MD 355 - CLARKSBURG  
SHARED USE PATH

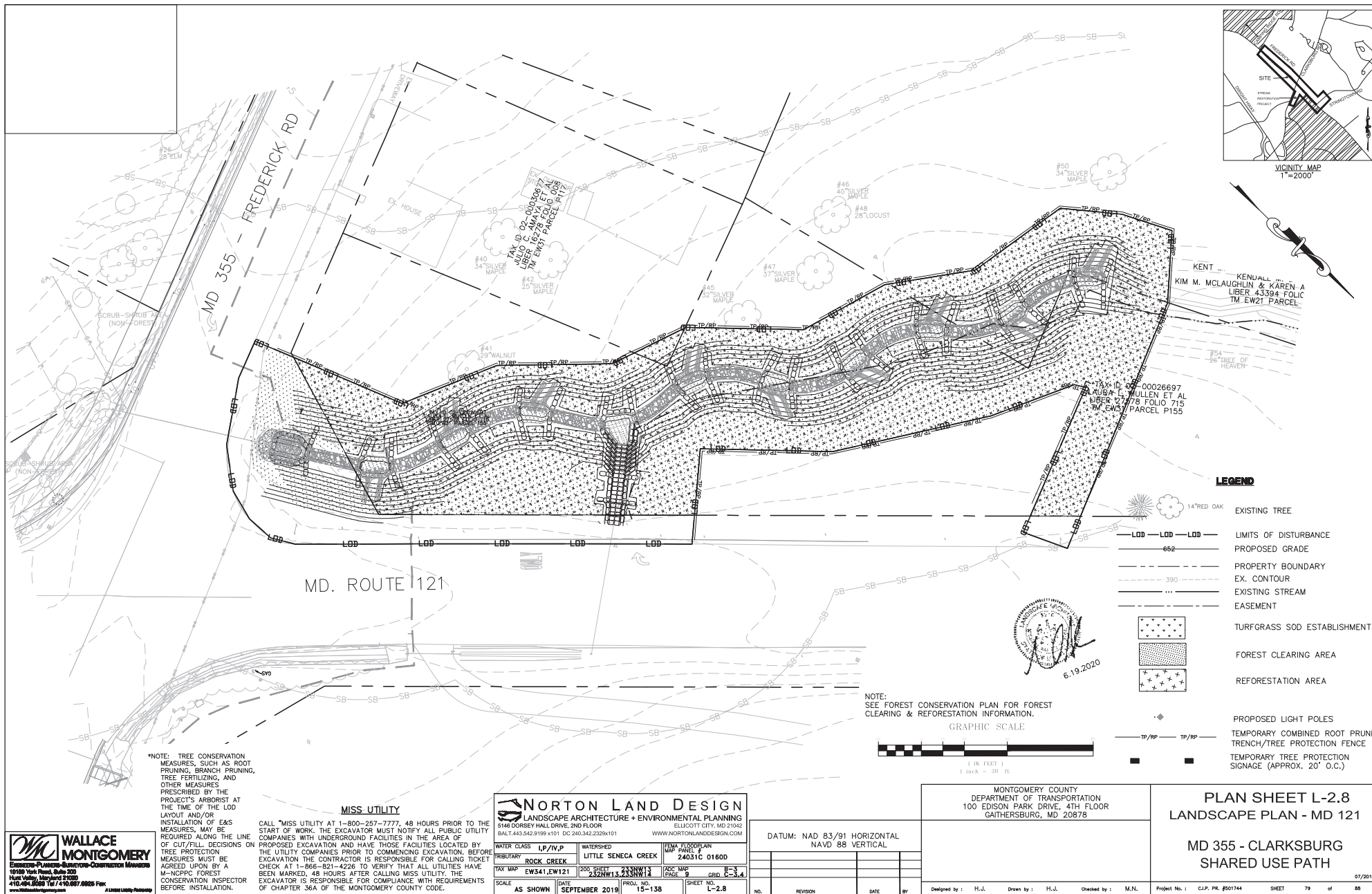
Project No.: C.J.P. PE #507144 SHEET 78 of 85



DRILL HOLES

DRILL HOLES

DRILL HOLES



DRILL HOLES

DRILL HOLES

DRILL HOLES

#### 7.1 SHA LANDSCAPE NOTES:

Landscape construction within rights of way of the Maryland State Highway Administration (SHA) and within SHA property, easement areas and lands to be conveyed to SHA shall conform to these Notes. For guidance regarding design modifications during construction, refer to SHA Landscape Design Guide, SHA Landscape Estimating Manual, and SHA Environmental Guide for Access and District Permit Applicants at <http://www.roads.maryland.gov/index.aspx?PageId=25>

#### 7.2 SHA Standard Specifications:

Landscape construction shall conform to Sections 701 through 716, and landscape materials shall conform to Section 920 of the most recent revision of SHA Standard Specifications for Construction and Materials, including all revisions and supplements, and as specified in these notes. These requirements shall supersede all other specifications for work on SHA property. All SHA specifications for landscaping and landscape materials published in 2008 have been replaced. Current Specifications are at <http://www.roads.maryland.gov/index.aspx?PageId=44>.

#### 7.3 Erosion and Sediment Control Manager (ESCM):

Soil disturbance such as grading, excavation, soil placement or other activities that involve soil disturbance shall be supervised by an ESCM Manager with a valid SHA Yellow Card in conformance with SHA Standard Specifications and any applicable Erosion and Sediment Control Permit.

#### 7.4 SHA Standard Details for Trees, Shrubs and Planting Beds:

The installation of trees, shrubs, planting beds and other landscape construction related to Section 710 of the SHA Standard Specifications shall conform to the SHA Book of Standards for Highway & Incident Structures - Category 7 at <http://apps.roads.maryland.gov/BusinessWithSHA/bizStdSpecs/desManualStdPub/publicationsonline/ohd/bookstd/toccat07.asp>.

#### 7.5 Temporary Stabilization:

Shall be installed in conformance with Section 704 to ensure that areas of soil disturbance are protected from wind, rainfall and flowing water until permanent stabilization is installed:

1. Temporary Mulch, either as temporary straw mulch or temporary matting mulch, shall be installed at the end of each working day to provide "some day stabilization" unless other approved stabilization is installed.
2. Temporary straw mulch shall be installed on areas and slopes flatter than 4:1; temporary matting mulch shall be applied on slopes 4:1 and steeper, and to areas within channels.
3. Temporary Seed shall be installed in lieu of Temporary Mulch when soil redistribution is expected more than 30 days after soil disturbance. The required application rate shall be 100 lbs per acre of 37-0-0 (SCU) fertilizer.

#### 7.6 Roadway Pavement Removal:

Areas of roadway pavement removal shall be excavated to remove pavements, aggregate base, and compacted soil to a minimum depth of 10 inches below the pavement surface, or as necessary to remove all materials unsuitable for landscaping. The excavated areas shall be restored with subsoil and topsoil as part of Soil Restoration.

#### 7.7 Excavation and Debris Removal:

Debris related to the demolition of sidewalks, driveways, curbs, trees, slumps, roots, fencing, pipes, and other materials that may interfere with landscape installation or future maintenance shall be excavated as necessary for their complete removal and disposal.

#### 7.8 Soil Restoration:

Areas of pavement removal, excavation or drilling in landscaped

areas shall remove excavated debris and restore the subgrade with approved subsoil and topsoil placed in conformance with Section 701 of the SHA Standard Specifications.

1. A layer of approved topsoil of at least a 4-inch depth shall be placed on all disturbed areas flatter than 2:1 and in all channels prior to seeding, sodding or other landscaping, unless otherwise specified.
2. A layer of approved topsoil of at least a 2-inch depth shall be placed on all disturbed areas 2:1 and steeper prior to seeding, sodding or other landscaping, unless otherwise specified.

3. Biorestation Soil Mix (BSM) and other materials installed in conjunction with SPI 316 - Stormwater Filtration Facilities and SHA stormwater details shall be installed in conformance with SHA Landscape Notes and landscape plans. Plant materials and mulch shall be installed in BSM in conformance with stormwater details, Section 710 or other SHA Specifications.

#### 7.9 Turfgrass Sod Establishment:

Shall be performed in all disturbed areas, or within the areas indicated in the plans, in conformance with Section 708 of the SHA Standard Specifications. The required application rate of 20-16-12 fertilizer shall be 200 lbs per acre, and no fertilizer shall be applied from November 15 to March 1.

#### 7.11 Soil Stabilization Matting:

Shall be installed in conformance with Section 709 of the SHA Standard Specifications, in conjunction with Turfgrass Establishment per Section 705 or Meadow Establishment per Section 707 as follows:

1. Areas Flatter than 6:1, Type A or Type E matting may be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment.
2. Areas Steeper than 6:1 and Flatter than 4:1, Type A or Type E matting shall be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment, unless delineated and noted otherwise.
3. Channels, Stormwater Management Facilities, and Slopes 4:1 and Steeper Type A Soil Stabilization Matting shall be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment, unless delineated and noted otherwise.

#### 7.13 Tree Preservation Areas:

Temporary Orange Construction Fence (TOCF) shall be installed in locations delineated on the plans as Tree Preservation Areas (TPA) in conformance with Section 120 of the SHA Standard Specification to protect existing trees and other vegetation during construction. Areas within TOCF shall be protected from all prohibited and restricted activities, per Section 120.

#### 7.14 Roadside Tree Permit:

Tree removal, tree installation, tree root and branch pruning, and other regulated impacts to trees in the SHA right of way shall conform to the requirements of the Roadside Tree Permit (RTP) issued by the Maryland Department of Natural Resources, or the approved Forest Conservation Plan (FCP) of the local authority.

1. A copy of the RTP or FCP shall be submitted to the SHA Office of Environmental Design before work is performed, and a copy of the RTP or FCP shall be reproduced in the plans or be in possession of the applicant at the project site when the permitted work is performed.
2. A Maryland Licensed Tree Expert shall perform the specified tree operations in conformance with the SHA Standard Specifications and ANSI A300 Standards for Tree Care Operations.

#### 7.15 Trees and Other Plant Material Installation:

Trees, shrubs, perennials, annuals, bulbs, landscape beds, bark, mulch and similar materials shall be installed in conformance with Section 710 and 711 of the SHA Standard Specifications. Tree and shrubs shall be pruned at the time of installation to ensure sidewalk clearance for pedestrians is maintained to a height of 8 feet. No tree or shrub shall be installed within 3 feet of curbs, sidewalks, or pavement edges.

#### 7.21 Tree Branch Pruning:

Shall be performed or directly supervised by a Maryland Licensed Tree Expert in conformance with ANSI A300 standards per Section 712 as necessary for any of the following: To install Temporary Orange Construction Fence (TOCF) along delineations on plans; to perform Tree Root Pruning along delineations on plans; to provide 8-foot clearance above sidewalk pavements and 16-foot clearance above roadway pavements; to repair tree wounds; and to perform other recommended cleaning, thinning, reducing, and pruning necessary to accommodate utilities. All debris shall be removed from SHA property.

#### 7.22 Tree Root Pruning:

Shall be performed along the line shown on the plans in conformance with Section 715. Tree Root Pruning shall be completed before beginning excavation or construction adjacent to trees to be preserved.

#### 7.23 Tree Fertilizing:

Shall be performed in conformance with Operation 3 - Broadcast Fertilizing per Section 716. 20-16-12 fertilizer shall be applied to the soil surface under the drip line of trees at the rate of 200 lbs. per acre.

#### 7.25 Future Maintenance:

Additional maintenance that may be required after hardscaping, street furniture or plant materials are installed and accepted by SHA such as replacement, watering, weeding, mulching or pest control may be provided by the applicant when a permit for the proposed work is issued by the SHA District Office.

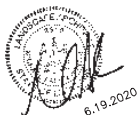
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#### MISS UTILITY

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<b>NORTON LAND DESIGN</b> LANDSCAPE ARCHITECTURE & ENVIRONMENTAL PLANNING 5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042 BALT. 443.542.9199 X101 DC 240.342.2329X101 WWW.NORTONLANDDESIGN.COM					
WATER CLASS	I/P/IV/P	WATERSHED	LITTLE SENECA CREEK	UTMA FLOODPLAIN	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	24031C 01600	ADC MAP	PAGE 9
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	LS-2.9



DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

#### SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CV	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	7"-8"	B&B	SHOWN	4	
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	18	
PA	PLATANUS HYBRIDA "COLUMBIA"	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	18	
QR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL.	B&B	SHOWN	5	

SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT - TALL FESCUE/KENTUCKY BLUEGRASS				TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD
							10,226
							STABILIZATION

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

#### PLAN SHEET L-2.9 LANDSCAPE - NOTES

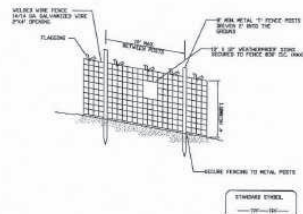
#### MD 355 - CLARKSBURG SHARED USE PATH

07/20/18

Designed by: H.J. Drawn by: H.J. Checked by: M.N. Project No.: C.J.P. PR. #501744 SHEET 80 of 88

### Tree Protection Fence Detail

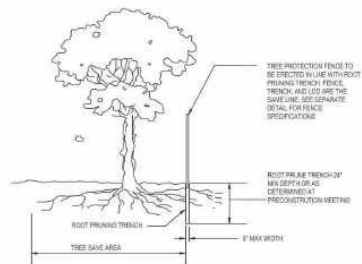
Not to scale



## NOTES

1. Practice may be combined with sediment control fencing.
2. Location and limits of fencing should be coordinated in field with arborist.
3. Boundaries of protection area should be staked prior to installing protective device.
4. Root damage should be avoided.
5. Protection signage is required.
6. Fencing shall be maintained throughout construction.

Montgomery County Planning Department • MCNPPC  
MontgomeryPlanning.org



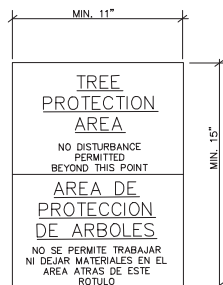
## NOTES:

1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION/PC/PI INSPECTOR.
4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE PC/PI INSPECTOR.
5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE PC INSPECTOR.

ROOT PRUNING DETAIL

NTS

## FOREST RETENTION AREA SIGNAGE



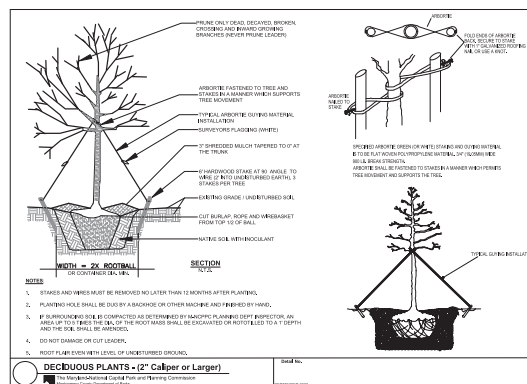
NOTE:

SIGNAGE FOR FOREST RETENTION AREA  
TO BE PLACED 30' O.C. WHEN PLACED ON FENCE

1. Attachment of signs to trees is prohibited.
2. Signs should be properly maintained.
3. Avoid injury to roots when placing posts for the signs.

## MISS UTILITY

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE COMMENCING EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.



6.19.2020



WATER CLASS I,P/IV,P		WATERSHED LITTLE SENECA CREEK		FEMA FLOODPLAIN MAP PANEL # 24031C 0160D	
TRIBUTARY ROCK CREEK		2000 SHEET 232NW13, 233NW12		ADC MAP # 9 GRID B-5 C-3	
TAX MAP EW341,EW121		2000 SHEET 232NW13, 233NW12		ADC MAP # 9 GRID B-5 C-3	
SCALE AS SHOWN		DATE SEPTEMBER 2019		PROJ. NO. 15-138	
				SHEET NO. LS-2.10	

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

PLAN SHEET L-2.10  
LANDSCAPE - DETAILS

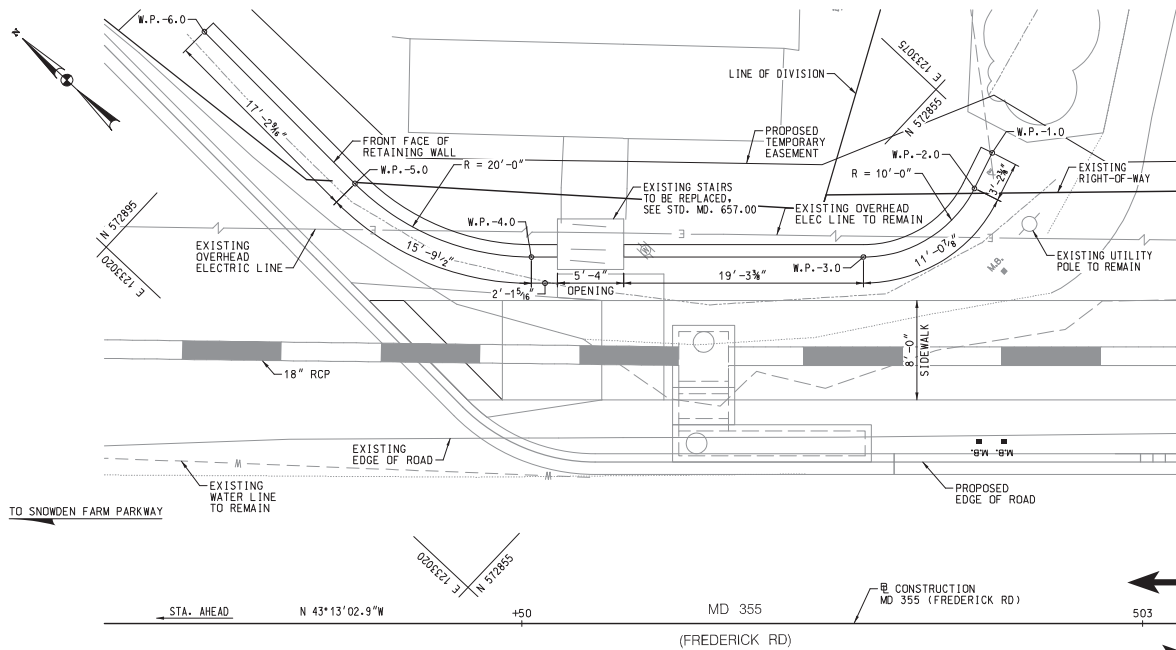
MD 355 - CLARKSBURG  
SHARED USE PATH

07/2018

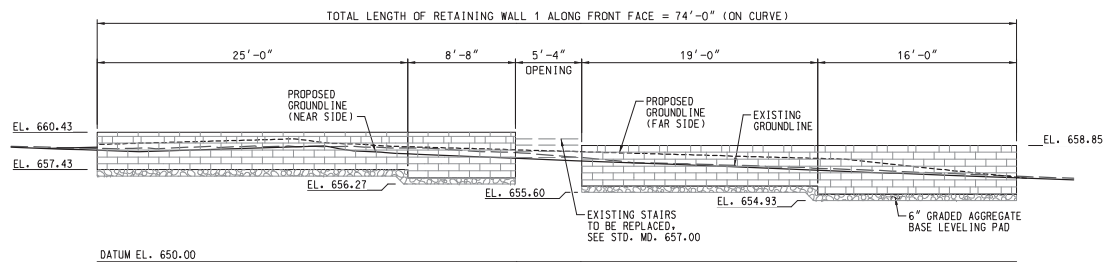
Designed by : H.J.      Drawn by : H.J.      Checked by : M.N.

Project No. :	C.J.P. PR. #501744	SHEET	81	of	88
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PLAN  
SCALE: 1" = 5'



ELEVATION  
SCALE: 1" = 5'

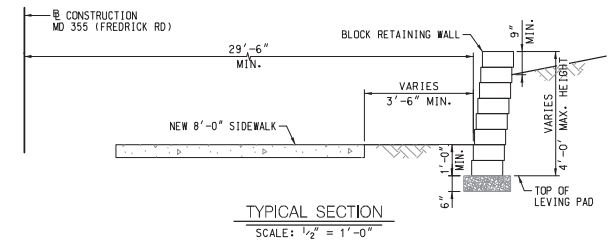
#### GENERAL NOTES:

SPECIFICATIONS: - SHA SPECIFICATIONS DATED JULY 1, 2020  
- REVISIONS THEREOF AND ADDITIONS THERETO AND SPECIAL PROVISIONS FOR MATERIALS AND CONSTRUCTION

KEYS: ALL KEYS ARE NOMINAL SIZE.

WORKING POINT DATA				
MARK	STATION	OFFSET	NORTHING	EASTING
W.P.-1.0	503 + 12.12	37.89' RT.	572,848.2137	1,233,074.3800
W.P.-2.0	503 + 13.55	35.03' RT.	572,847.2967	1,233,071.3143
W.P.-3.0	503 + 22.50	29.50' RT.	572,850.0206	1,233,061.1640
W.P.-4.0	503 + 49.22	29.50' RT.	572,860.5041	1,233,042.8621
W.P.-5.0	503 + 63.42	35.42' RT.	572,883.8054	1,233,037.4497
W.P.-6.0	503 + 75.54	47.64' RT.	572,901.1082	1,233,038.0572

NOTE:  
SOIL SHALL HAVE A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.



TYPICAL SECTION  
SCALE: 1/2" = 1'-0"

#### NOTES:

1. FOR ROADWAY PLANS, SEE DRAWING NO. PS-03.
2. SEE SPECIAL PROVISIONS FOR PRE-APPROVED ALTERNATE WALL SYSTEMS.

#### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

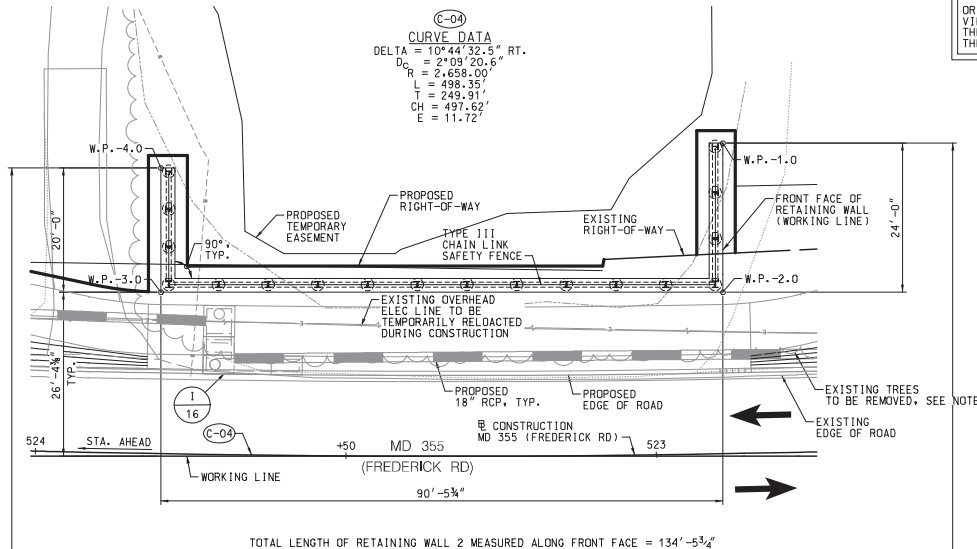
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL	
CHM, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by: M.E.P.	Drawn by: C.N.W.
Checked by: D.A.L.	

#### RETAINING WALL 1 GENERAL PLAN AND ELEVATION MD 355 - CLARKSBURG SHARED USE PATH

SCALE: AS NOTED  
Project No.: C.I.P. PR. # S01744 SHEET 83 of 88  
08/2020



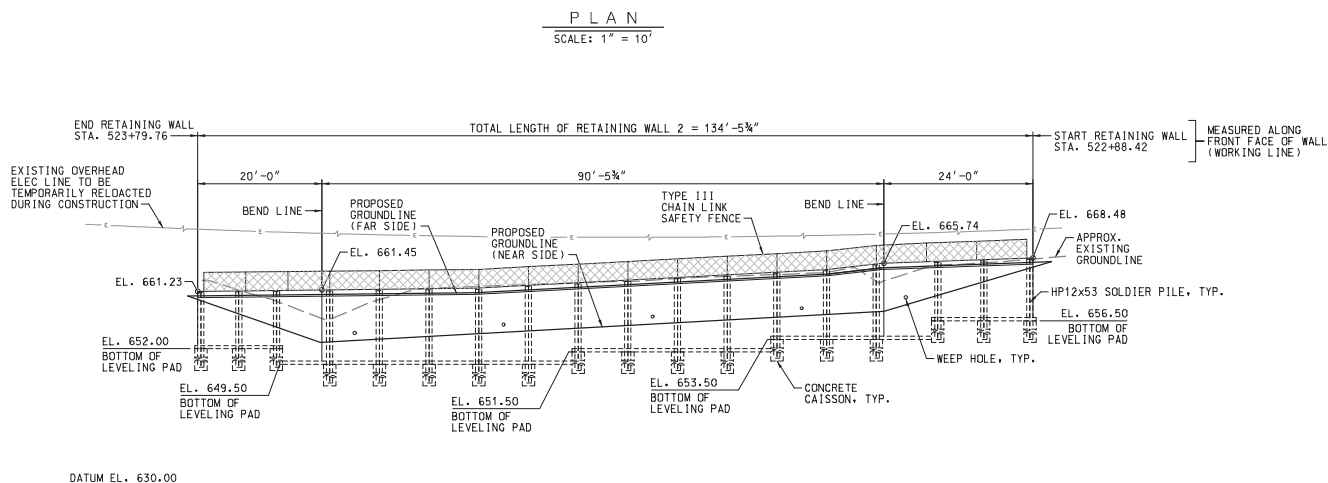
**NOTE:**  
ORIENTATION OF THIS VIEW DOES NOT MATCH THE ORIENTATION OF THE HIGHWAY PLANS.

#### GENERAL NOTES:

- SPECIFICATIONS:** MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 2020.
- DESIGN:** AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2017.
- CONCRETE:** ALL CONCRETE SHALL BE MIX NO. 3 (3500 PSI).  
CONCRETE COMPRESSIVE STRENGTH FOR DESIGN SHALL BE  $f'_c = 3000$  PSI.
- REINFORCING STEEL:** REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, WITH A YIELD STRENGTH FOR DESIGN OF  $f_y = 60000$  PSI.  
ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER BAR LAP CHARTS.  
REINFORCING STEEL SHALL BE EPOXY COATED AS NOTED WITH AN EP IN THE PLANS.
- STRUCTURAL STEEL:** MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 2" UNLESS OTHERWISE NOTED.  
FOR TIES AND STIRRUPS, STANDARD ACI BENDING TOLERANCES ARE MODIFIED TO PLUS (+) ZERO INCHES, MINUS (-) NORMAL ACI BENDING TOLERANCES.  
NEW STRUCTURAL STEEL SHALL CONFORM TO A709, GRADE 50, INCLUDING THE ADDITIONAL REQUIREMENTS FOR CHARPY V-NOTCH TESTING OF M270, FOR PRIMARY LOAD CARRYING MEMBERS. REFER TO SECTION 909.01.

**NOTE:**  
EXISTING TREES WITHIN THE LIMIT OF DISTURBANCE WILL BE REMOVED TO PERFORM CONSTRUCTION. REFER TO DWG. NOS. L-1.5 AND L-1.6 FOR DETAILS.

WORKING POINT DATA				
MARK	STATION	OFFSET	NORTHING	EASTING
W.P.-1.0	522+88.41	49.99' RT.	574,170.2520	1,231,604.5600
W.P.-2.0	522+88.83	25.99' RT.	574,151.4458	1,231,589.6494
W.P.-3.0	523+80.21	25.99' RT.	574,207.6598	1,231,518.7486
W.P.-4.0	523+80.56	45.98' RT.	574,223.3517	1,231,531.1741



- NOTES:**
- FOR GEOMETRIC AND FOOTING LAYOUT, SEE DRAWING RW2-2.
  - FOR RETAINING WALL TYPICAL SECTION, SEE DRAWING RW2-3.

#### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

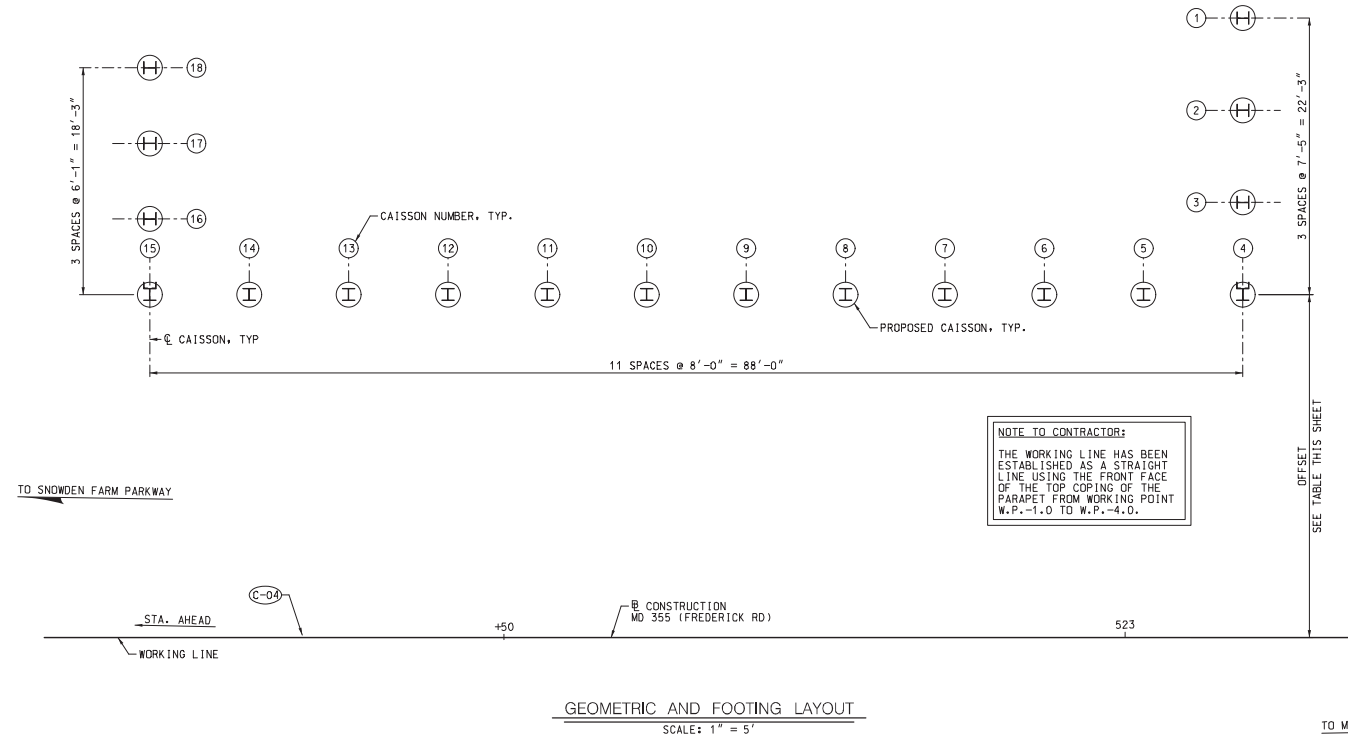
NO.	REVISION	DATE	BY

RECOMMENDED FOR APPROVAL			
CHM, Design Section		Date	
APPROVED			
Chief, Division of Engineering Services		Date	
Designed by: M.E.P.	Drawn by: C.N.W.	Checked by: D.A.L.	

#### RETAINING WALL 2 GENERAL PLAN AND ELEVATION MD 355 - CLARKSBURG SHARED USE PATH

SCALE: AS NOTED 08/2020  
Project No.: C.J.P. PR. # 301744 SHEET 84 of 88

NOTE:  
ORIENTATION OF THIS  
VIEW DOES NOT MATCH  
THE ORIENTATION OF  
THE HIGHWAY PLANS.



NOTE TO CONTRACTOR:  
THE WORKING LINE HAS BEEN  
ESTABLISHED AS A STRAIGHT  
LINE USING THE FRONT FACE  
OF THE TOP COPING OF THE  
PARAPET FROM WORKING POINT  
W.P.-1.0 TO W.P.-4.0.

CAISSON SCHEDULE					
CAISSON NUMBER	STATION	OFFSET	WALL SECTION	TOP OF CAISSON ELEV.	BOTTOM OF CAISSON ELEV.
1	522+89.69	49.50 RT.	HP12x53	656.50	644.50
2	522+89.81	42.09 RT.	HP12x53	656.50	644.50
3	522+89.94	34.67 RT.	HP12x53	656.50	644.50
4	522+90.06	27.25 RT.	HP12x53	653.50	641.50
5	522+90.15	27.37 RT.	HP12x53	653.50	641.50
6	523+06.23	27.47 RT.	HP12x53	653.50	641.50
7	523+14.31	27.54 RT.	HP12x53	651.50	639.50
8	523+22.40	27.59 RT.	HP12x53	651.50	639.50
9	523+30.48	27.62 RT.	HP12x53	651.50	639.50
10	523+38.56	27.62 RT.	HP12x53	651.50	639.50
11	523+46.65	27.59 RT.	HP12x53	649.50	637.50
12	523+54.73	27.54 RT.	HP12x53	649.50	637.50
13	523+62.82	27.47 RT.	HP12x53	649.50	637.50
14	523+70.90	27.37 RT.	HP12x53	649.50	637.50
15	523+78.98	27.25 RT.	HP12x53	649.50	637.50
16	523+79.11	33.33 RT.	HP12x53	652.00	640.00
17	523+79.24	39.42 RT.	HP12x53	652.00	640.00
18	523+79.38	45.50 RT.	HP12x53	652.00	640.00

#### CAISSON INSTALLATION NOTES:

- EXCAVATED SHAFTS FOR CAISSONS BY AUGURING TO A MINIMUM EMBEDMENT OF 12'-0", WITH A MINIMUM ROCK SOCKET OF 5'-0". SEE SECTION ON SHEET RW1-3. ROCK SHALL BE DEFINED AS MATERIAL THAT CAN NOT BE DRILLED WITH A CME 75 DRILL RIG (OR EQUIVALENT) AND HOLLOW STEM AUGERS. WHEN ROCK IS ENCOUNTERED, CORE-DRILLING PROCEDURES WILL BE REQUIRED.
- INSTALL STEEL CASINGS AS EXCAVATION PROCEEDS. CASINGS SHALL BE FULL LENGTH AND WATER TIGHT AND SHALL BE SUFFICIENT TO WITHSTAND ALL STRESSES AND MAINTAIN THE SHAFT WALLS.
- WITHDRAW CASINGS PROGRESSIVELY AS CONCRETE IS PLACED.
- HOLES FOR SUCCESSIVE DRILLED SHAFTS SHALL NOT BE EXCAVATED UNTIL ADJACENT SHAFTS ARE FILLED WITH CONCRETE AND ALLOWED TO SET.
- DRILLED SHAFT TOLERANCES SHALL BE IN ACCORDANCE WITH SECTION 412.

NOTE:  
FOR GENERAL PLAN AND  
ELEVATION, SEE DRAWING RW2-1

RW2-2



#### UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL  
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

#### RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED

Date

Chief, Division of Engineering Services

Date

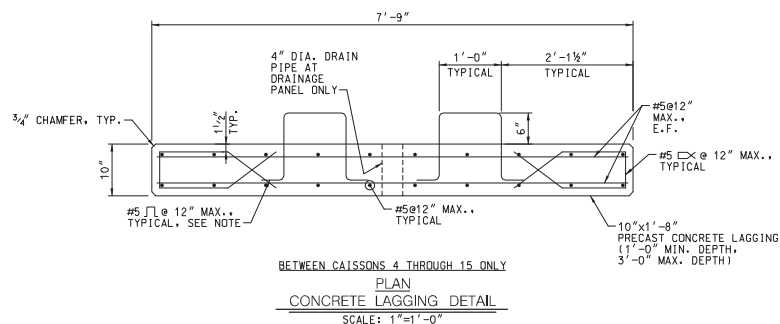
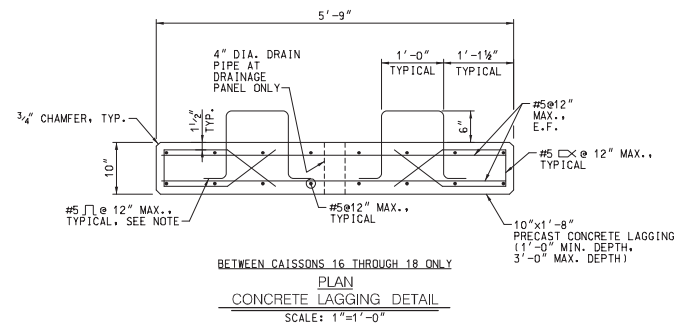
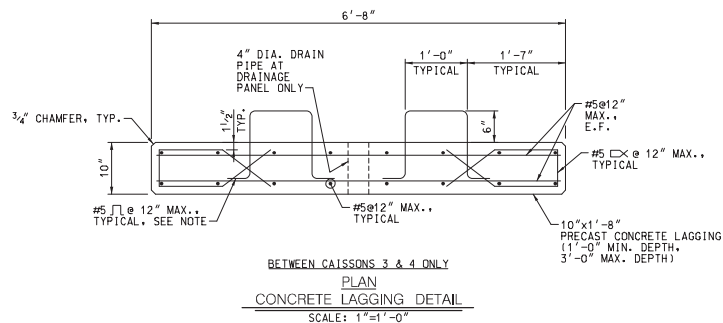
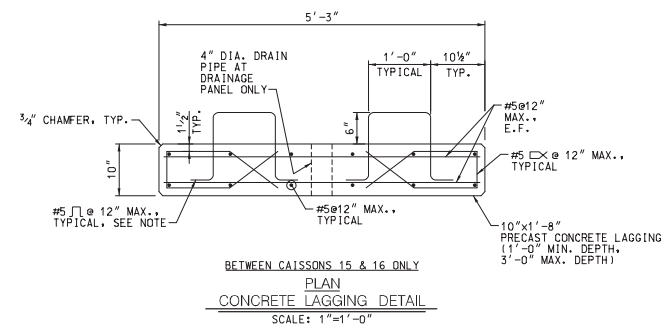
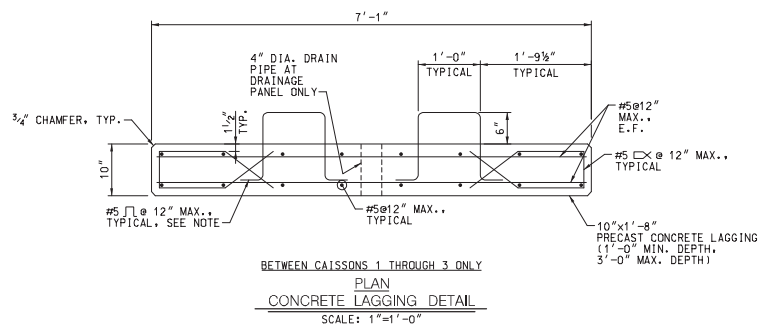
Designed by: M.E.P. Drawn by: C.N.W. Checked by: D.A.L.

#### RETAINING WALL 2 GEOMETRIC AND FOOTING LAYOUT MD 355 - CLARKSBURG SHARED USE PATH

SCALE: AS NOTED  
Project No.: C.J.P. PR. # 501744 SHEET 85 of 88







NOTE:  
STIRRUPS SHALL NOT BE USED  
IN LAGGING AT CONTRACTION AND  
EXPANSION JOINT LOCATIONS.

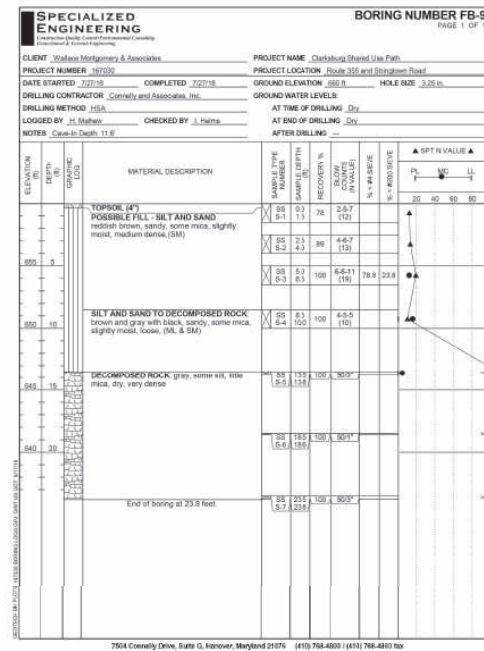
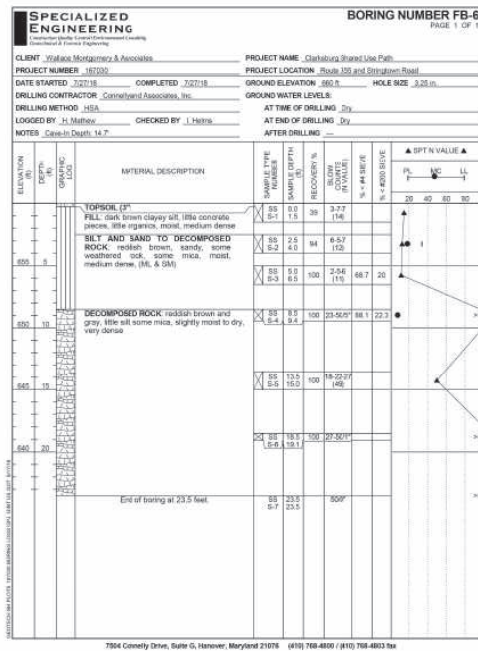
# UPDATED 90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
CHM, Design Section	Date
APPROVED	
CHM, Division of Engineering Services	Date
Designed by: M.E.P.	Drawn by: C.N.W.
Checked by: D.A.L.	

## RETAINING WALL 2 PRECAST LAGGING DETAILS MD 355 - CLARKSBURG SHARED USE PATH

Project No.: C.I.P. PR. # 301744 SHEET 87 of 88 08/2020



DATUM EL. 620.00

BORING FB-6

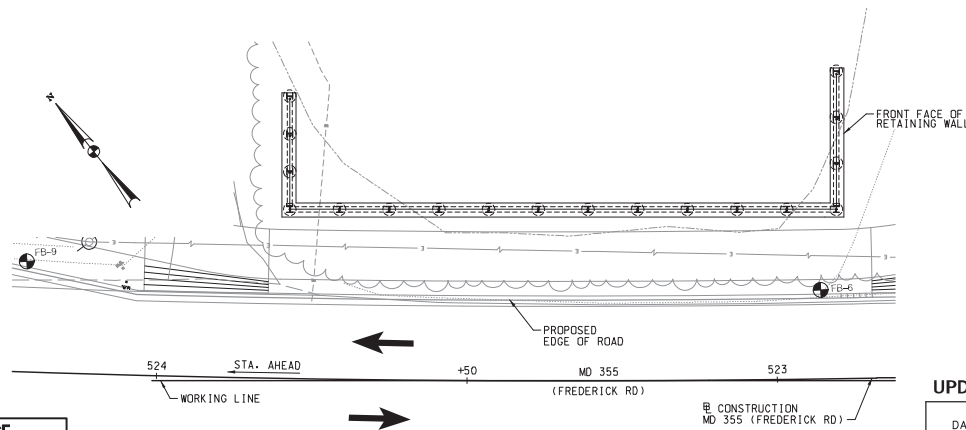
BORING FB-9

DATUM EL. 620.00

**BORINGS AND DRIVE TESTS**

SCALE: 1" = 5'

BORING LOCATION DATA					
BORING NUMBER	STATION	OFFSET	NORTHING	EASTING	DEPTH (FT)
FB-6	522+92.83	14.33' RT.	574,144.6029	1,231,579.4088	25.00
FB-9	524+21.47	17.84' RT.	574,227.6146	1,231,482.1133	25.00



BORING LOCATION PLAN

SCALE: 1" = 10'

**UPDATED 90% SUBMITTAL**

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

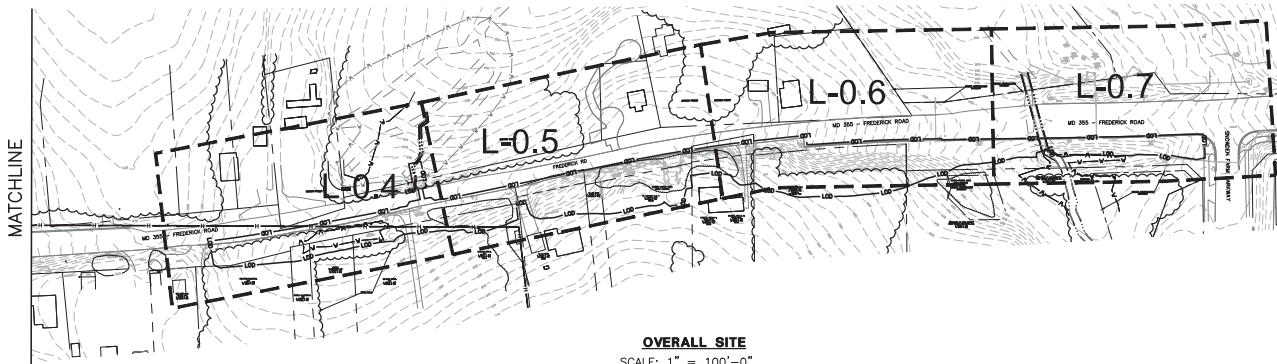
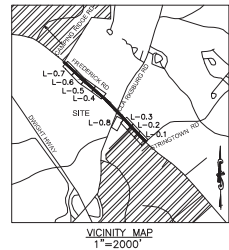
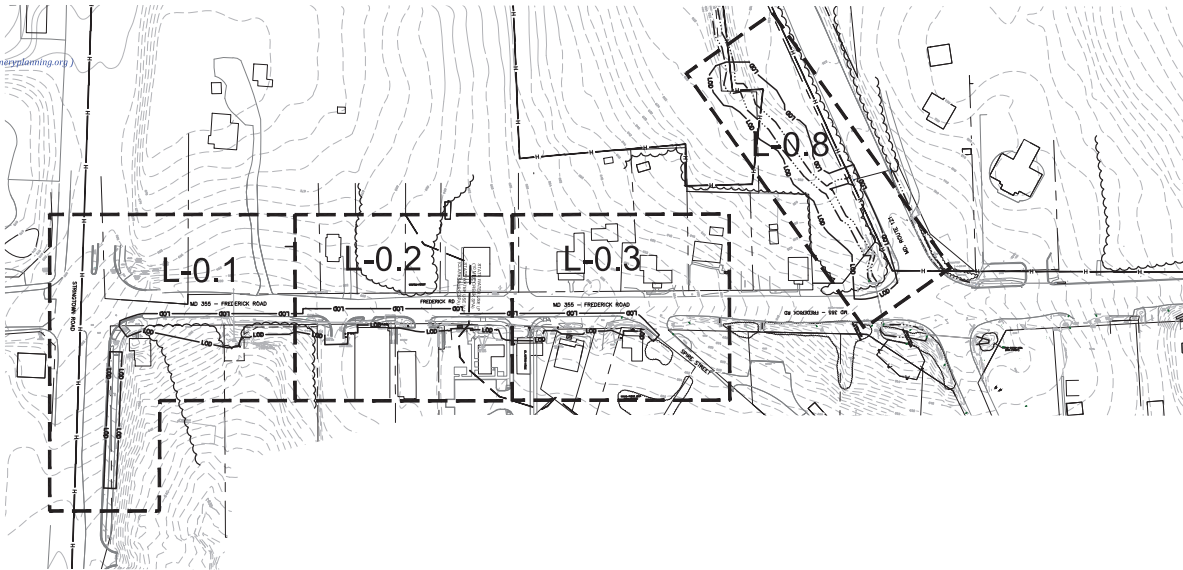
RECOMMENDED FOR APPROVAL			
CHM, Design Section	APPROVED	Date	
CHM, Division of Engineering Services	APPROVED	Date	
Designed by: M.E.P.	Drawn by: C.N.W.	Checked by: D.A.L.	

**BORING LOCATION PLAN  
 MD 355 - CLARKSBURG  
 SHARED USE PATH**

SCALE: AS NOTED 08/2020  
 Project No.: C.J.P. PR. # 301744 SHEET 88 of 88



MONTGOMERY PLANNING DEPARTMENT  
**APPROVED - 420182000**  
 Katherine Nelson / katherine.nelson@montgomeryplanning.org  
 02/08/19



**OVERALL SITE**  
 SCALE: 1" = 100'-0"

- LEGEND**
- L-0 — L-0 — PROPOSED LIMITS OF DISTURBANCE
  - — — — — PROPERTY BOUNDARY
  - ~~~~~ EXISTING FOREST AREA
  - ~~~~~ EXISTING SCRUB-SHRUB AREA
  - ~~~~~ EXISTING FIELD DELINEATED STREAM
  - ~~~~~ EXISTING FIELD DELINEATED WETLAND
  - — — — — STREAM BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
  - ~~~~~ WETLAND BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
  - H — H — HISTORIC DISTRICT
  - — — — — STATE WATER USE (SPA) DIVIDE LINE
  - — — — — FOREST CONSERVATION EASEMENT



**CERTIFICATION OF QUALIFIED PROFESSIONAL**  
 I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
 DATE  
 MICHAEL A. NORTON  
 MONITOR / COMAR 08.19.06.01  
 QUALIFIED PROFESSIONAL

**WALLACE MONTGOMERY**  
 PLANNING - PLANNING - SURVEYING - CONSTRUCTION  
 1000 York Road, Suite 200  
 Rockville, Maryland 20850  
 P: 301.583.1803 T: 301.587.6825 F: 301.583.1804  
 www.wallacemontgomery.com

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5140 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042  
 BALT. 443.542.8199 X101 DC 240.342.2329 X101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	L/P/IV/P	WATERSHED	LITTLE SENECA CREEK	TEMA FLOODPLAIN	MAP PANEL
TRIBUTARY	ROCK CREEK				24031C 0160D
TAX MAP	EW341,EW121	200 SHEET	233NW13	ADC MAP	B-3
		233NW13	233NW14	PLATE	9
SCALE	AS SHOWN	DATE	NOVEMBER 2018	PROJ. NO.	15-138
				SHEET NO.	L-0.1A

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

**PLAN SHEET L-0.1A**  
 NRI/FSD OVERALL PLAN  
 MD 355 - CLARKSBURG  
 SHARED USE PATH  
 NO. 420182000

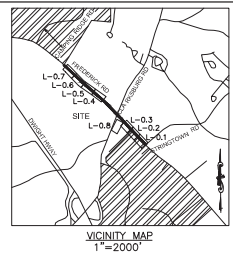
Project No.: C.L.P. # 502744 SHEET 60 of 96


**APPROVED - 420182000**  
 Katherine Nelson / katherine.nelson@montgomeryplanning.org  
 02/08/19









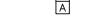




STRINGTOWN ROAD

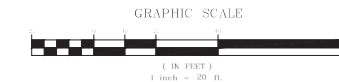
MD 355 - FREDERICK ROAD

MATCHLINE SHEET L-0.2



**LEGEND**

- 
 #1 26" RED OAK  
 EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
- 
 #2 32" RED OAK  
 EXISTING SPECIMEN TREE >30" DBH\* OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
- 
 SOIL BOUNDARY
- 
 LOD  
 PROPOSED LIMITS OF DISTURBANCE
- 
 1" SURVEY TOPO  
 2" MNCPPC TOPO  
 LIMITS OF SURVEY
- 
 MODERATE SLOPES 15% - 25%
- 
 STEEP SLOPES ≥ 25%
- 
 PROPERTY BOUNDARY
- 
 EXISTING FOREST AREA
- 
 EXISTING SCRUB-SHRUB AREA
- 
 FOREST SAMPLE PLOT
- 
 HISTORIC DISTRICT
- 
 TEMPORARY EASEMENT



**CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
DATE

  
 MICHAEL A. NORTON  
 MONTGOMERY COUNTY, MD  
 QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5140 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042  
 BALT. 443.542.8199 X101 DC 240.342.2329 X101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	L/P/IV,P	WATERSHED	LITTLE SENECA CREEK	TEMA FLOODPLAIN	MAP PANEL
TRIBUTARY	ROCK CREEK				24031C 0160D
TAX MAP	EW341,EW121	200' SHEET	233NW13	ADC MAP	233NW13
			233NW13	233NW13	233NW13
SCALE	AS SHOWN	DATE	NOVEMBER 2018	PROJ. NO.	15-138
				SHEET NO.	L-0.1

NO.	REVISION	DATE	BY

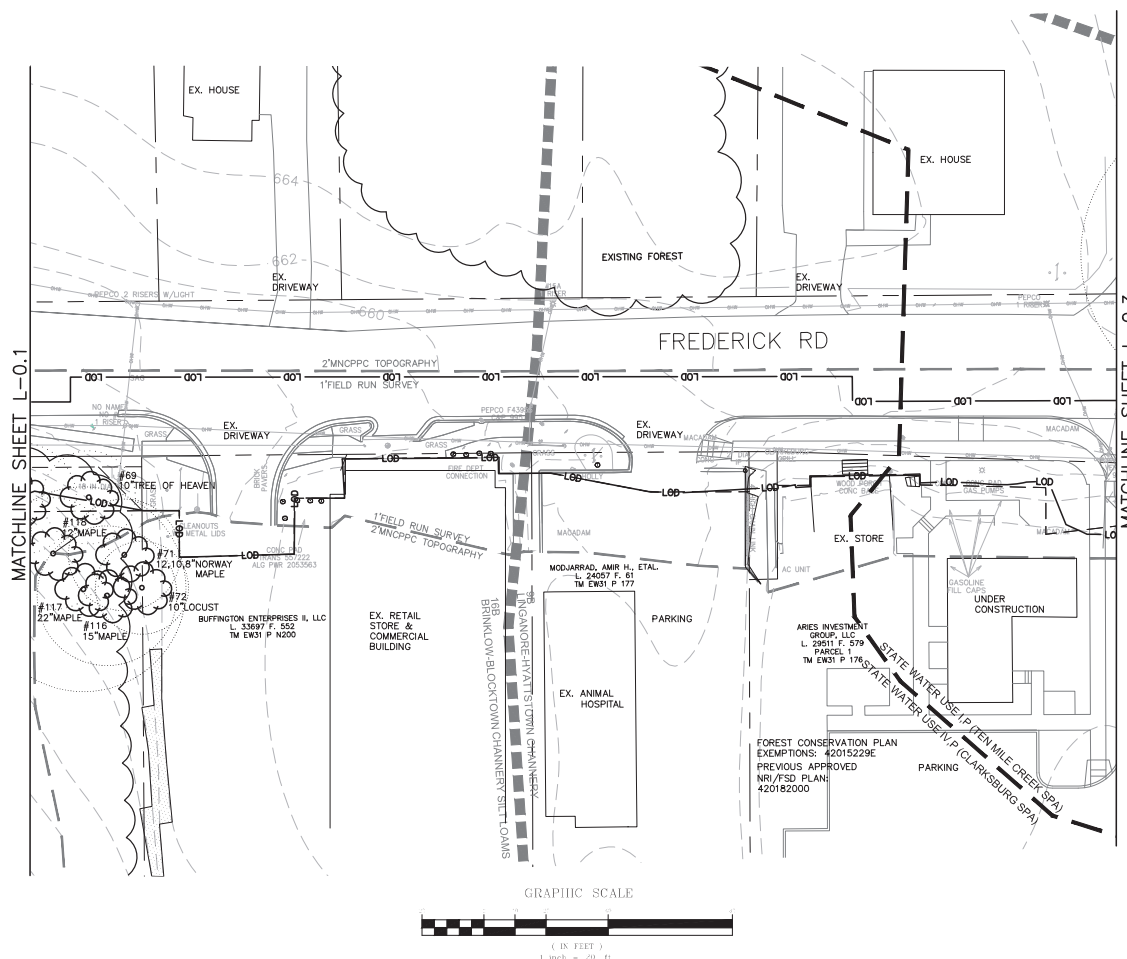
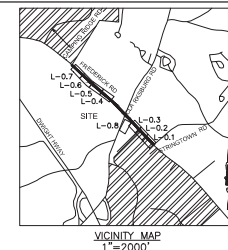
MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

Designed by : S.K.L. Drawn by : H.J. Checked by : M.N.

**PLAN SHEET L-0.1**  
**NRI/FSD PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

Project No. : C.L.P. PK. # 502744 SHEET 61 of 96


**WALLACE MONTGOMERY**  
 Landscape Planning - Site Design - Construction Documents  
 1000 York Road, Suite 200  
 Gaithersburg, Maryland 20878  
 Phone: 301.983.1818 Fax: 301.983.1825  
 www.wallacemontgomery.com



# **LEGEND**

- #1 26" RED OAK EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
- #2 32" RED OAK EXISTING SPECIMEN TREE >30" DBH \* OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
- SOIL BOUNDARY
- PROPOSED LIMITS OF DISTURBANCE
- LIMITS OF SURVEY
- MODERATE SLOPES 15% - 25%
- STEEP SLOPES ≥ 25%
- PROPERTY BOUNDARY
- EXISTING FOREST AREA
- STATE WATER USE (SPA) DIVIDE LINE
- TEMPORARY EASEMENT

\* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN

## **CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
 DATE

MICHAEL A. NORTON  
 MONTGOMERY COUNTY REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

NORTON LAND DESIGN			
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING			
5149 DORSEY HALL DRIVE, 2ND FLOOR ELLEICOTT CITY, MD 21042			
BALT. 443.542.9199 x101 DC 240.342.2329 x101 WWW.NORTONLANDDESIGN.COM			
WATER CLASS	I/P, IV, P	WATERSHED	LITTLE SENECA CREEK
TRIBUTARY	ROCK CREEK	MAP PANEL	24031C 01600
TAX MAP	EW341.EW121	200 SHEET	232NW13
SCALE	AS SHOWN	DATE	NOVEMBER 2018
PROJ. NO.	15-138	SHEET NO.	L-0.2

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

**PLAN SHEET L-0.2**  
**NRI/FSD PLAN**

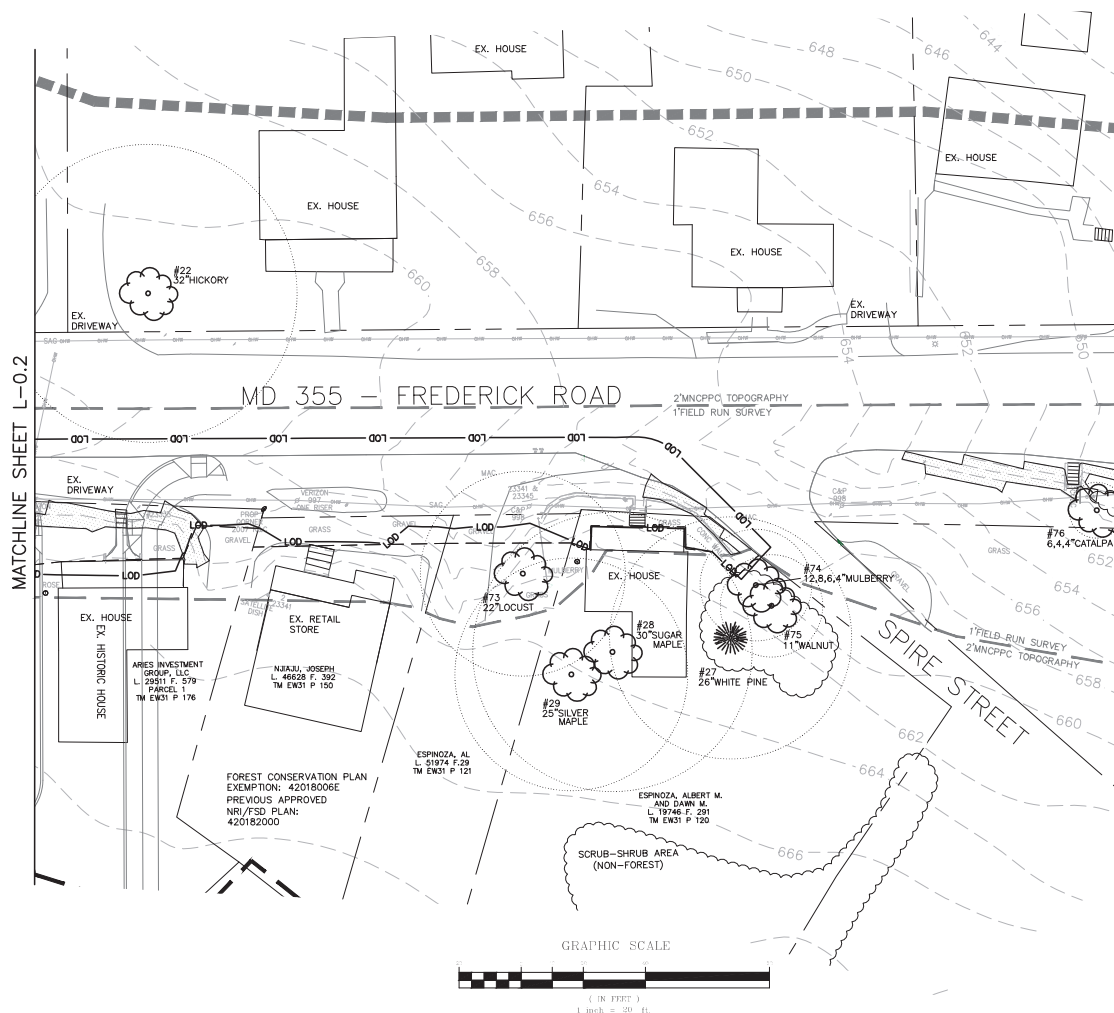
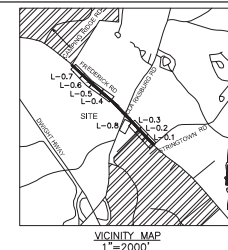
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

11/2018

Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

Project No.: C.L.P. # 502744 SHEET 62 of 96





- LEGEND**
- #1 26" RED OAK EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
  - #2 32" RED OAK EXISTING SPECIMEN TREE >30" DBH \* OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
  - SOIL BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
  - 1 SURVEY TOPO 2 MNCPPC TOPO LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - TEMPORARY EASEMENT
- \* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN

**CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
DATE

*Michael A. Norton*  
 MICHAEL A. NORTON  
 MCNR / COMAR 08.19.06.01  
 QUALIFIED PROFESSIONAL

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

**PLAN SHEET L-0.3**  
**NRI/FSD PLAN**

**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

11/2018

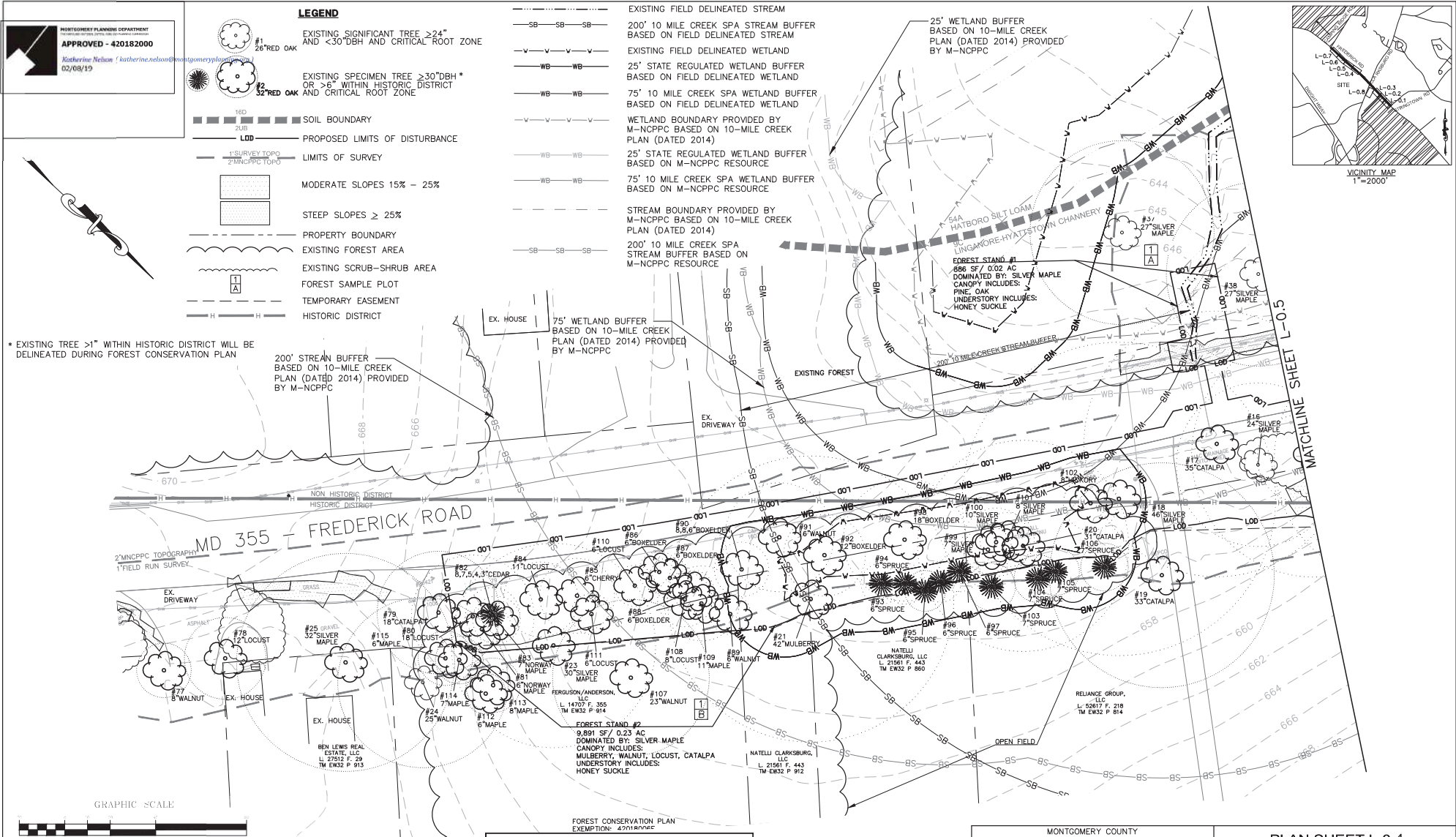
Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.

Project No.: C.L.P. PK # 502744 SHEET 63 of 96



- LEGEND**
- EXISTING SIGNIFICANT TREE >24" AND <30"DBH AND CRITICAL ROOT ZONE
  - EXISTING SPECIMEN TREE >30"DBH \* OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
  - SOIL BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
  - LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - FOREST SAMPLE PLOT
  - TEMPORARY EASEMENT
  - HISTORIC DISTRICT

\* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN



**CERTIFICATION OF QUALIFIED PROFESSIONAL**

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNP&C AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18  
DATE

MICHAEL A. NORTON  
MONT / COMAR 08.19.08.01  
QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
6140 DORSEY HALL DRIVE, 2ND FLOOR  
BETHESDA, MD 20814  
WWW.NORTONLANDDESIGN.COM

WATER CLASS	1P/IV.P	WATERBOD	CLARKS CREEK
TRIBUTARY	CLARKS CREEK	MAP PANEL	24031C 01600
TAX MAP	EW341.EW121	200' BUFFER	24031C 01600
SCALE	AS SHOWN	DATE	NOVEMBER 2018
PROJ. NO.	15-138	SHEET NO.	L-0.4

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

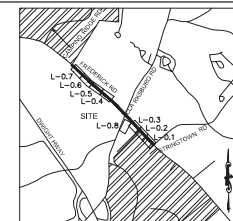
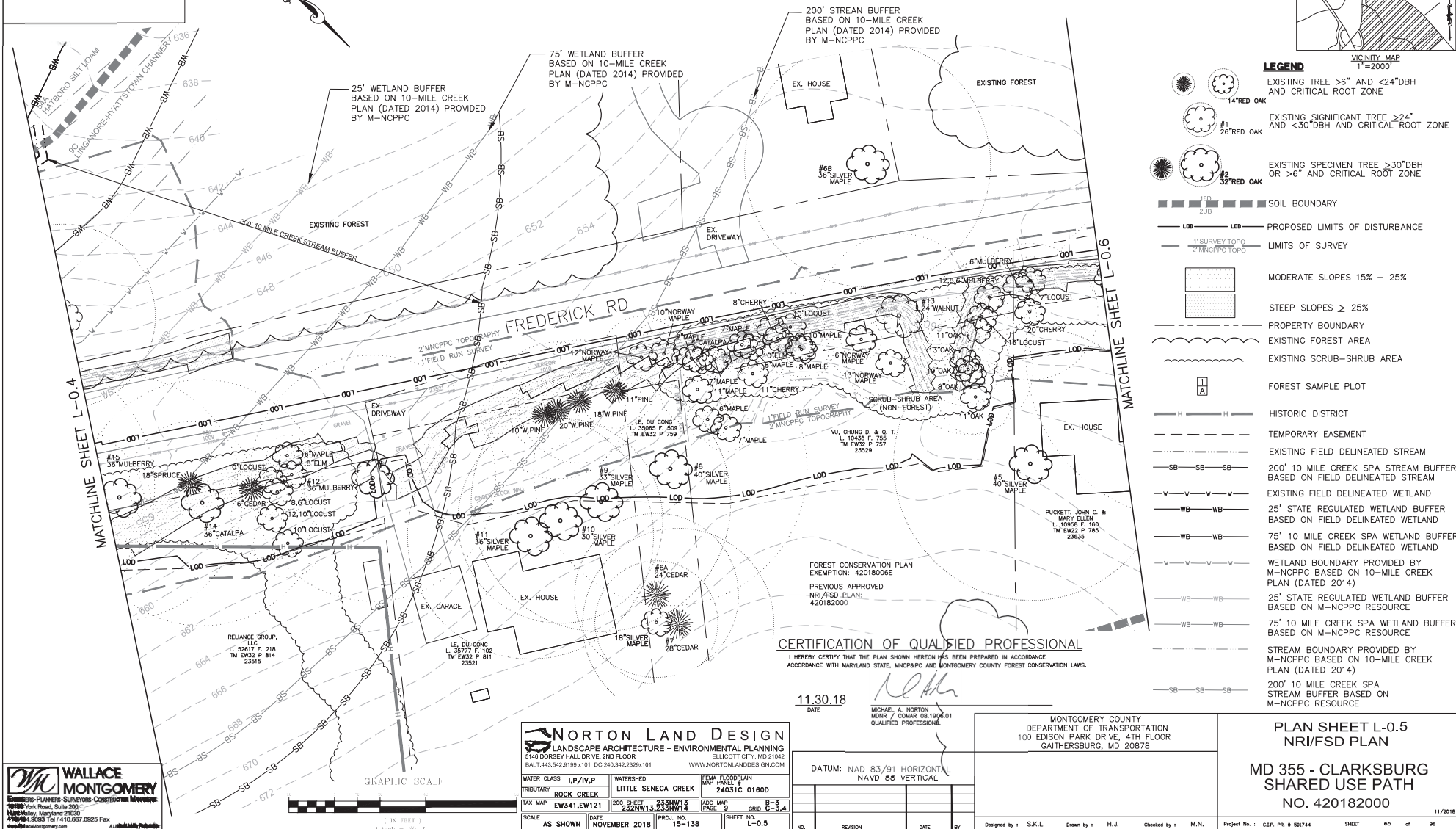
MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR  
GAITHERSBURG, MD 20878

Designed by : S.K.L. Drawn by : H.J. Checked by : M.N.

**PLAN SHEET L-0.4**  
**NRI/FSD PLAN**

**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**

Project No. : C.L.P. # 502744 SHEET 64 of 96



- LEGEND**
- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
  - EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
  - EXISTING SPECIMEN TREE >30" DBH OR >6" AND CRITICAL ROOT ZONE
  - SOIL BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
  - LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - FOREST SAMPLE PLOT
  - HISTORIC DISTRICT
  - TEMPORARY EASEMENT
  - EXISTING FIELD DELINEATED STREAM
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON FIELD DELINEATED STREAM
  - EXISTING FIELD DELINEATED WETLAND
  - 25' STATE REGULATED WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND
  - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND
  - WETLAND BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
  - 25' STATE REGULATED WETLAND BUFFER BASED ON M-NCPPC RESOURCE
  - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON M-NCPPC RESOURCE
  - STREAM BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON M-NCPPC RESOURCE

**CERTIFICATION OF QUALIFIED PROFESSIONAL**  
 I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

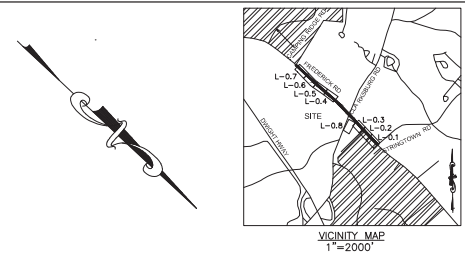
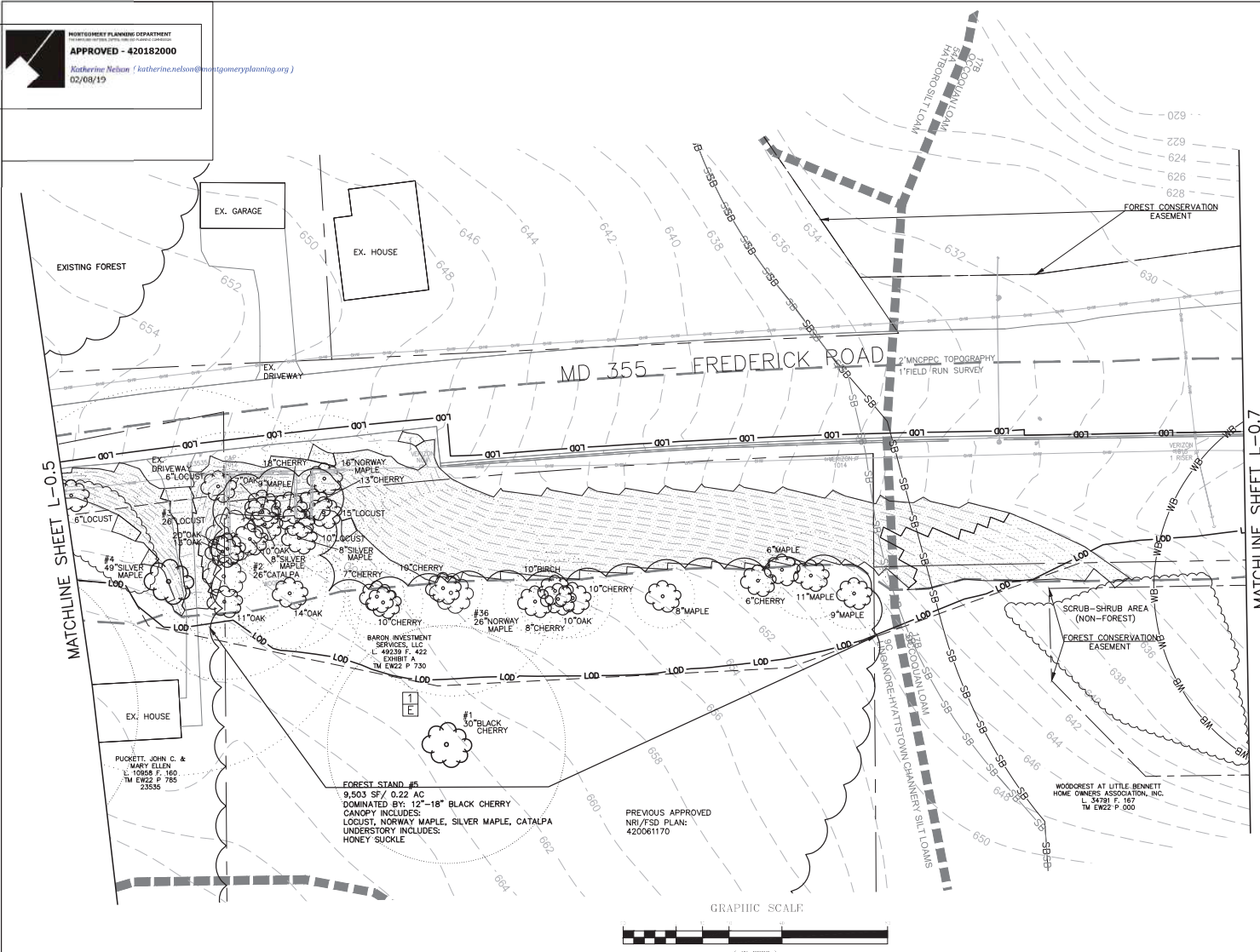
11.30.18  
 DATE  
 MICHAEL A. NORTON  
 MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878  
 QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5148 DORSEY HALL DRIVE, 2ND FLOOR  
 BALTIMORE, MD 21204  
 TEL: 410.542.8199 FAX: 410.542.2329  
 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV/P	WATERSHED	LITTLE SENECA CREEK	MAP PANEL	24031C 0160D
TRIBUTARY	ROCK CREEK	200' SPA	24031W13	ADC MAP	PGS. 9
TAX MAP	EW341,EW121	DATE	NOVEMBER 2018	PROJ. NO.	15-138
SCALE	AS SHOWN	SHEET NO.	L-0.5		



MONTGOMERY PLANNING DEPARTMENT  
**APPROVED - 420182000**  
 Katherine Nelson / katherine.nelson@montgomeryplanning.org  
 02/08/19



- LEGEND**
- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
  - EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
  - EXISTING SPECIMEN TREE ≥30" DBH AND CRITICAL ROOT ZONE
  - SOIL BOUNDARY
  - PROPOSED LIMITS OF DISTURBANCE
  - LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - FOREST CONSERVATION EASEMENT
  - TEMPORARY EASEMENT
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON FIELD DELINEATED STREAM
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON M-NCPPC RESOURCE
  - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND

**CERTIFICATION OF QUALIFIED PROFESSIONAL**

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11.30.18  
 DATE  
 MICHAEL A. NORTON  
 MDR / COMAR 08.19.05.01  
 QUALIFIED PROFESSIONAL

**WALLACE MONTGOMERY**  
 PLANNING & SURVEYING  
 10000 Rock Road, Suite 200  
 Rockville, Maryland 20850  
 Phone: 301.583.1800 Fax: 301.587.0925  
 www.wallacemontgomery.com

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5148 DORSEY HALL DRIVE, 2ND FLOOR  
 BALT. 443.542.9199 x101 DC 240.342.2329x101  
 ELICOTT CITY, MD 21042  
 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV/P	WATERSHED	LITTLE SENECA CREEK	ITEMA FLOODPLAIN MAP PAGE 1	24031C 01600
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200' SHEET	233NW13	ARC MAP	9
SCALE	AS SHOWN	DATE	NOVEMBER 2018	PROJ. NO.	15-138
				SHEET NO.	L-0.6

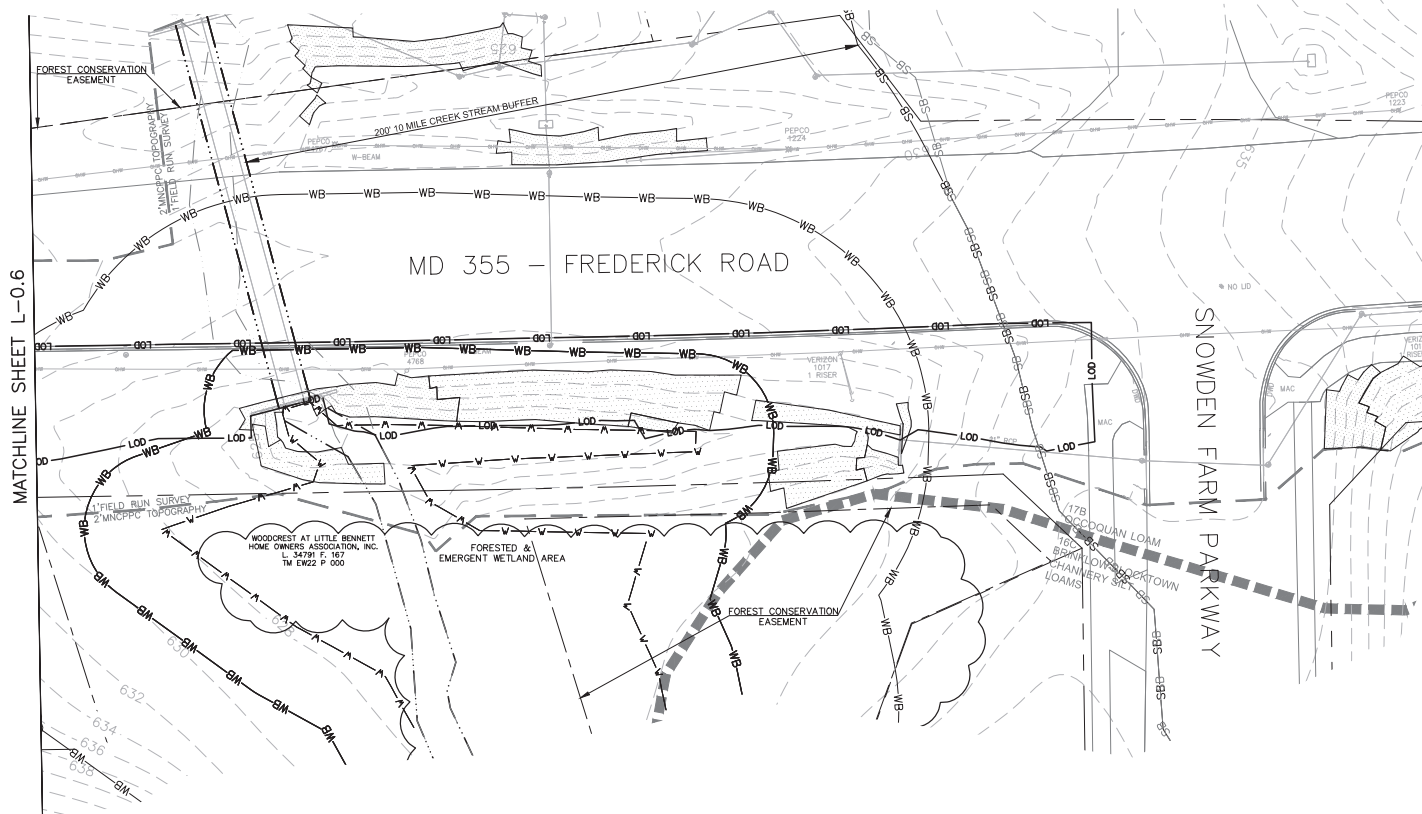
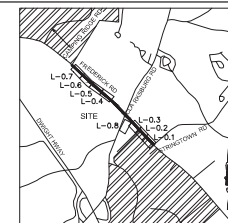
DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

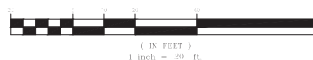
**PLAN SHEET L-0.6**  
**NRI/FSD PLAN**  
**MD 355 - CLARKSBURG**  
**SHARED USE PATH**  
**NO. 420182000**  
 Project No.: C.L.P. PK. # 50244 SHEET 66 of 96  
 11/2018

Designed by: S.K.L. Drawn by: H.J. Checked by: M.N.



- LEGEND**
- 100' 200' SOIL BOUNDARY
  - LOD LOD PROPOSED LIMITS OF DISTURBANCE
  - 1" SURVEY TOPO 2" MINCPPC TOPO LIMITS OF SURVEY
  - MODERATE SLOPES 15% - 25%
  - STEEP SLOPES ≥ 25%
  - PROPERTY BOUNDARY
  - EXISTING FOREST AREA
  - EXISTING SCRUB-SHRUB AREA
  - FOREST CONSERVATION EASEMENT
  - TEMPORARY EASEMENT
  - EXISTING FIELD DELINEATED STREAM
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON FIELD DELINEATED STREAM
  - STREAM BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
  - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON M-NCPPC RESOURCE
  - EXISTING FIELD DELINEATED WETLAND
  - 25' STATE REGULATED WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND
  - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND

GRAPHIC SCALE



**CERTIFICATION OF QUALIFIED PROFESSIONAL**

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11.30.18  
 DATE

MICHAEL A. NORTON  
 MONTGOMERY COUNTY  
 QUALIFIED PROFESSIONAL

**NORTON LAND DESIGN**  
 LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING  
 5148 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042  
 BALT. 443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I/P/IV,P	WATERSHED	LITTLE SENECA CREEK	FWA FLOODPLAIN	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200' SHEET	233NW13	ADC MAP	9
SCALE	AS SHOWN	DATE	NOVEMBER 2018	PROJ. NO.	15-138
				SHEET NO.	L-0.7

DATUM: NAD 83/91 HORIZONTAL  
 NAVD 88 VERTICAL

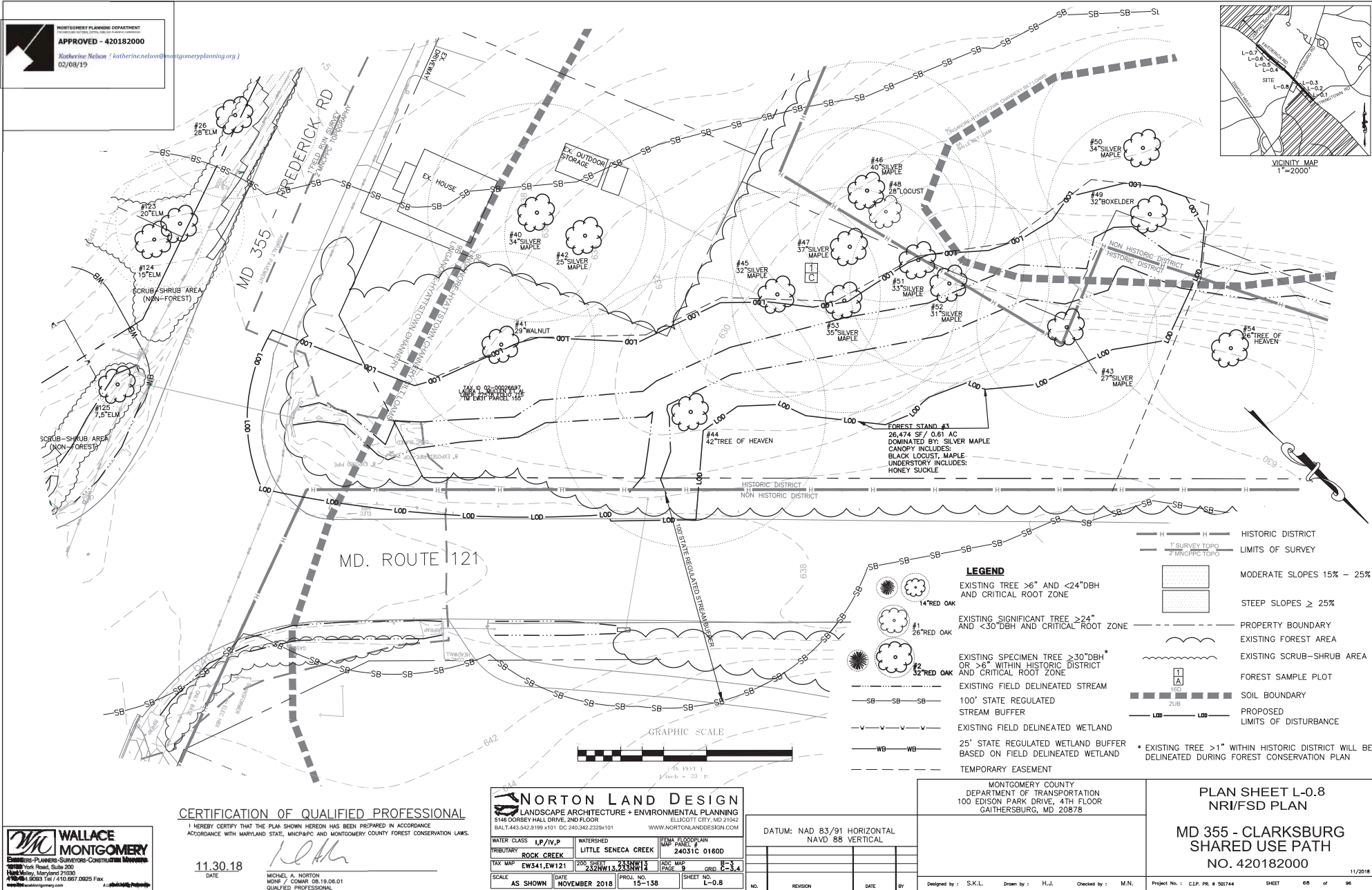
MONTGOMERY COUNTY  
 DEPARTMENT OF TRANSPORTATION  
 100 EDISON PARK DRIVE, 4TH FLOOR  
 GAITHERSBURG, MD 20878

**PLAN SHEET L-0.7  
 NRI/FSD PLAN**

**MD 355 - CLARKSBURG  
 SHARED USE PATH  
 NO. 420182000**

11/2018

Designed by: S.K.L. Drawn by: H.J. Checked by: M.N. Project No.: C.L.P. # 502744 SHEET 67 of 96











01/25/2019

# Potomac Edison - Street Lights on Clarksburg Square Rd





### **Historic Preservation Commission Preliminary Consultation Report**

Staff Contact: Michael Kyne

HPC Commissioners Present: Marsha Barnes, Karen Burditt, Sandra Heiler (Chair), Robert Sutton (Vice Chair), Cristina Radu, Jeffrey Hains

Applicant(s) and/or Representatives: Montgomery County/ MCDOT SHA, Dan Sheridan (Chief of Design Section, Division of Transportation and Engineering, MCDOT), Mark Bodmann (Project Engineer, Design Consultant, Wallace Montgomery), Scott Rose (Project Manager, Wallace Montgomery)

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#### **Design recommendations:**

1. The Commissioners voiced support for the project but recommended the following:
  - a. The proposed Colonial-style light fixtures will detract from the historic district, and alternatives should be explored.

Potomac Edison only has two styles, Colonial and Acorn post top. Members of the Clarksburg Historic District requested the Colonial post top; however, to match with lighting on an adjacent project in Clarksburg area, the Acorn top appears to be a better match (see attachments). We will revise the design plans to show the Acorn top lighting.
  - b. Explore reducing the height of the retaining wall at 23415 Frederick Road (as depicted on Page 32 of the February 12, 2020 staff report).

The maximum height of the retaining wall is 6 foot above grade. Reducing the height requires moving the wall closer to the road. Due to buffer requirements and minimum path width requirements, the wall can only be moved 1' – 2', which would not perceptibly change the wall height, would conflict with proposed drainage, and possibly conflict with waterline relocation. We recommend keeping height as-is.
  - c. Concerns were expressed regarding altering the relationship of house along Frederick Road to street, due to the construction of retaining walls in front of the houses. The applicant should explore the introduction of stairs within the retaining walls to retain the relationship.

There currently are no pedestrian accommodations to the front of 23407 and 23415, which are commercial properties. Pedestrian access is currently from the rear and side of both houses (23407 and 23415). We recommend keeping the access design as-is.

- d. Consider reduction of the paved area and driveway width at 23421 Frederick Road (as depicted on Page 34 of the February 12, 2020 staff report).  
MCDOT will reduce the driveway width to the minimum needed for commercial use of the driveway and type of vehicles requiring access.
- e. Consider working with property owners to reduce the number of curb cuts and/or combine driveways.  
MCDOT has reduced the width of the driveways where possible.
- f. Explore minimizing the amount of pavement directly adjacent to the proposed shared use path and/or in front of the houses.  
MCDOT will reduce the amount of pavement where possible.
- g. Concrete with exposed aggregate should be used in lieu of plain concrete.  
Exposed aggregate concrete is not a standard material for sidewalks and is not allowed by SHA. Tinted or stained concrete can be used as an aesthetic alternative.
- h. Explore differing border materials along the proposed shared use path to achieve the required 8' minimum width.  
Separate materials will cause differential settlement along the edge of the path and will create uneven pavement which will create ADA compatibility issues. This is not recommended.
- i. Consider preserving the existing concrete stair along Frederick Road (as depicted on Page 27 of the February 12, 2020 staff report).  
MCDOT agrees with your recommendation. The specification and plans within the contract will be amended to direct the contractor to remove and salvage the existing stairs. The contractor will coordinate with MNCPPC to have the stairs taken to a preferred location.
- j. Reduce the height of all proposed retaining walls and soften the retaining walls' appearance, where possible.  
Please see respond to previous comment regarding the height of retaining walls.  
Retaining wall faces will be changed to a plain concrete as requested. Concrete form liner will not be used.

## Additional responses to the Commissioners comments

MCDOT, Office of Property Acquisition has contacted several property owners and their representatives regarding proposed right of way, and modification to some property driveways, due to the construction of the new shared use bike path.

The following are details of our discussion and changes:

### 23407 Frederick Road (Dentist office)

- Adjusted grading to meet the deck elevation from new bike path
- Shortened driveway apron
- Removed the parking spaces in front of the building to construct the bike path and provided parking spaces in the side of the building. By doing this the amount of pavement in front of the building was reduced

Our property Acquisition Specialist contacted the property owners on 6/1, 9/18, and 9/24. The property owner has now hired a lawyer to represent him.

### 23421 Frederick Road

- Reduced the driveway entrance width from 30 to 20 foot

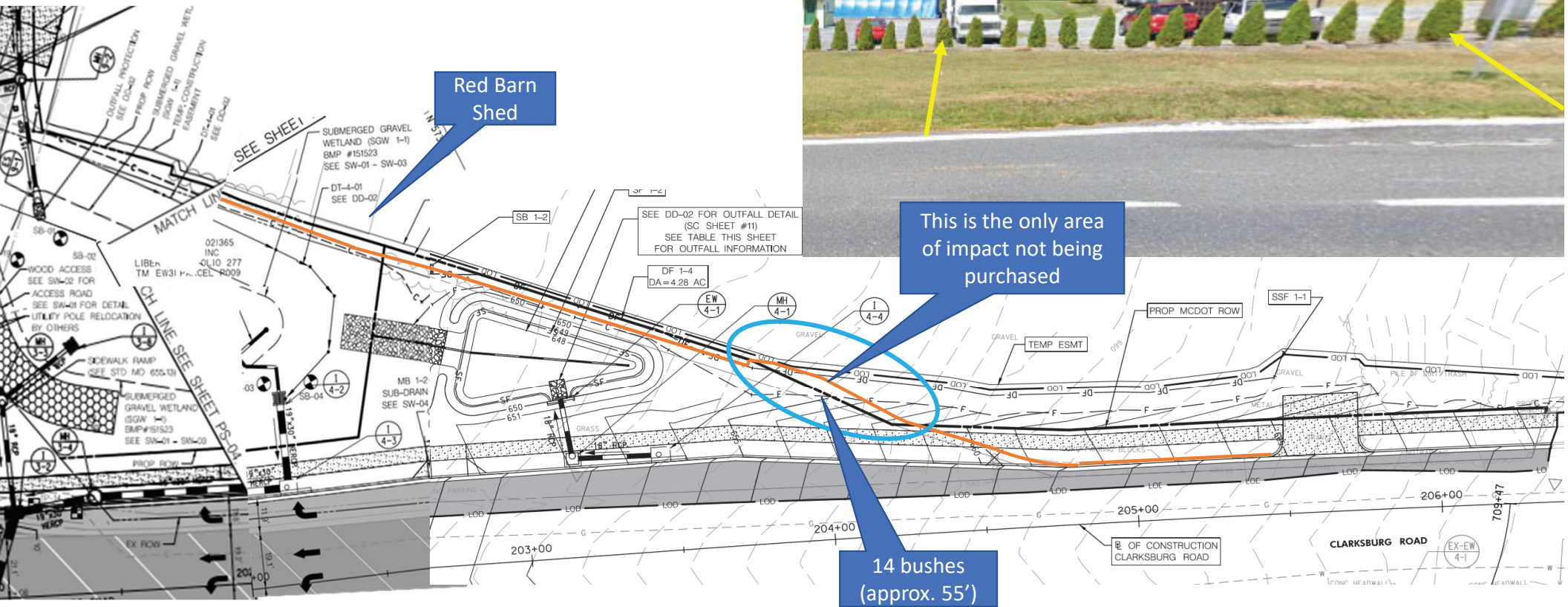
### 23425 Fredrick Road (Plumbing)

- Combined two entrances to one and reduced the driveway width to 20 feet at the front of entrance.

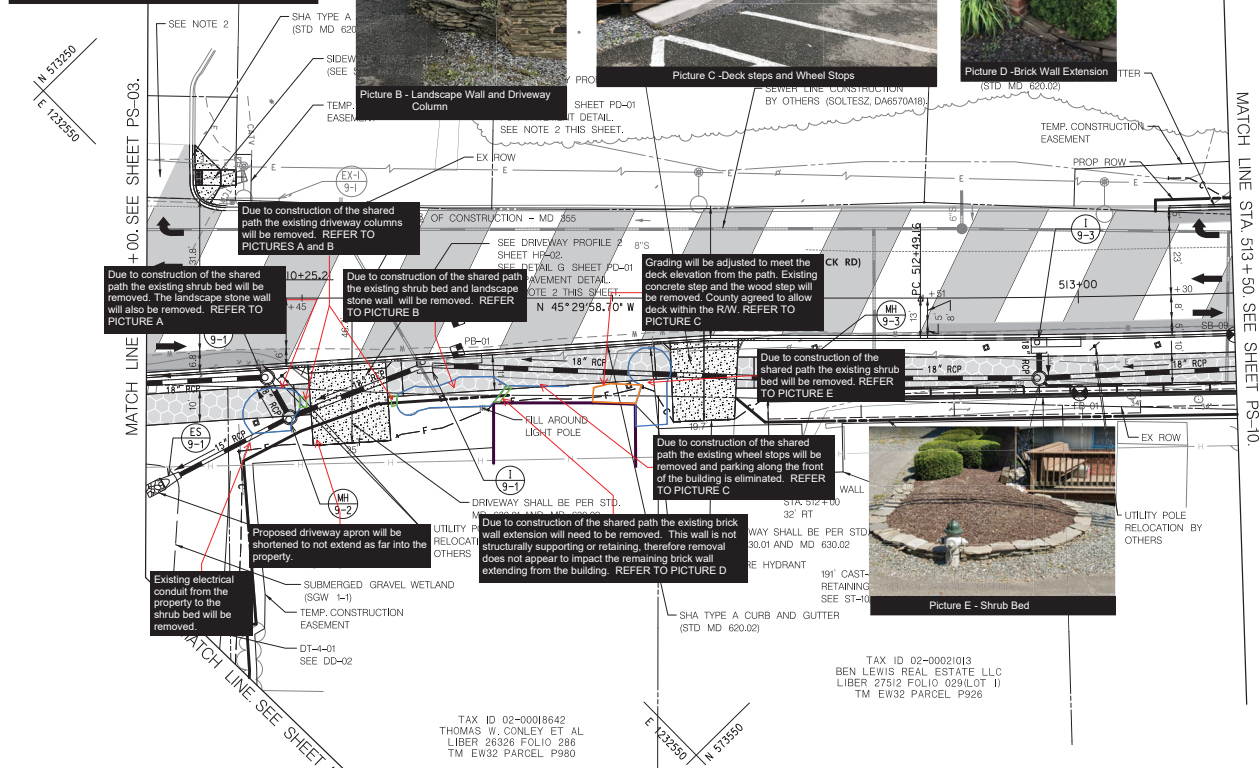
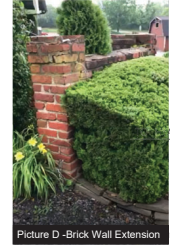
### 23415 Fredrick Road (Plumbing)- Retaining wall in front of the building

- The pedestrian access in this property is currently on the side. Our Property Acquisition Specialist contacted the property owner representative on 10/9 and 10/12 to discuss about the proposed right of way and if the property owner prefers to have a direct access from the front of the building to the proposed bike path. Apparently, the owner of the property hired a real estate firm to redevelop their property and they will not come to any agreements without their site plan first approved.





PLANTING IMPACT ALONG PROPERTY LINE



ROADWAY LEGEND	
	FULL DEPTH PAVING
	PAVEMENT WEDGE AND LEVELING
	FINE MILLING/OVERLAY
	PAVEMENT TO BE REMOVED
	CONCRETE DRIVEWAY/SIDEWALK
	ASPHALT SHARED USE PATH
	SWM ACCESS ROAD
	TRAFFIC FLOW ARROW

- NOTES:
- ADJUSTMENT OF EXISTING VISIBLE UTILITIES TO FINISHED GRADE SHALL BE INCIDENTAL TO THE PERTINENT ASPHALT/CONCRETE ITEM UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
  - PROVIDE A 60" MINIMUM PEDESTRIAN PATHWAY WITH A 2% CROSS-SLOPE ACROSS THE ENTIRE ENTRANCE



20' 0 20' 40'  
SCALE: 1"=20'

DATUM: NAD 83/1 Horizontal  
NAVD 88 Vertical

SOIL BORING		
ID	NORTHING	EASTING
SB-09	573574.98	1232331.35

PAVEMENT CORE		
ID	NORTHING	EASTING
PB-01	573403.18	1232513.61
PB-02	573396.05	1232506.61

FOUNDATION BORING		
ID	NORTHING	EASTING
FB-01	573553.40	1232380.13

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARK
MAILBOX	510+29	20 RT	RESET
MAILBOX	510+32	20 RT	RESET
MAILBOX	510+35	20 RT	RESET
UTILITY POLE (VERIZON)	510+37	21 RT	RELOCATED BY VERIZON
LIGHT POLE (PRIVATE)	511+08	35 RT	FILL AROUND POLE
FIRE HYDRANT (WSSC)	511+62	16 RT	RELOCATE
UTILITY POLE (POTOMAC EDISON)	513+05	21 RT	RELOCATED BY POTOMAC EDISON

FINE MILLING ASPHALT PAVEMENT 1 INCH TO 2 INCH DEPTH  
1623 SY MD 355 - STA. 510+00 TO STA. 513+50

SHARED USE PATH  
528 SF MD 355 - STA. 510+00 RT TO STA. 510+52 RT  
1040 SF MD 355 - STA. 510+78 RT TO STA. 511+68 RT  
1607 SF MD 355 - STA. 511+90 RT TO STA. 513+50 RT

STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH  
GUTTER PAN 8 INCH MINIMUM DEPTH (STD. NO. MD-620.02)  
39 LF MD 355 - STA. 510+00 RT TO STA. 513+50 RT  
27 LF MD 355 - STA. 510+44 LT TO STA. 510+25 LT  
20 LF MD 355 - STA. 513+30 LT TO STA. 513+50 LT

DETECTABLE WARNING SURFACE (STD. NO. MD-655.40)  
11 SF MD 355 - STA. 510+17 LT

4" CONCRETE SIDEWALK (STD. NO. MC-110.01)  
129 SF MD 355 - STA. 510+16 LT TO STA. 510+29 LT

REMOVAL OF EXISTING SIDEWALK  
1 CY MD 355 - STA. 510+23 LT TO STA. 510+27 LT  
1 CY MD 355 - STA. 513+30 LT TO STA. 513+50 LT

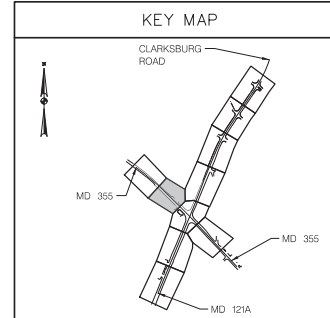
6 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS  
16 LF MD 355 - STA. 512+07 RT TO STA. 512+78 RT (OUTLET TO MH 9-3)  
10 LF MD 355 - STA. 512+95 RT TO STA. 513+50 RT (OUTLET TO MH 9-4)

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT  
FOR DRIVEWAY MIX 9 (STD. NO. MD-630.02)  
70 SY MD 355 - STA. 510+52 RT TO STA. 510+79 RT  
59 SY MD 355 - STA. 511+69 RT TO STA. 511+91 RT

REMOVAL OF EXISTING PAVEMENT  
1 CY MD 355 - STA. 510+47 RT TO STA. 510+52 RT  
1 CY MD 355 - STA. 511+90 RT TO STA. 511+92 RT

8 INCH CIRCULAR PIPE UNDERDRAIN OUTLETS  
74 LF MD 355 - STA. 512+07 RT TO STA. 512+78 RT (OUTLET TO MH 9-3)  
62 SF MD 355 - STA. 512+95 RT TO STA. 513+50 RT (OUTLET TO MH 9-4)

6 INCH PERFORATED CIRCULAR PIPE LONGITUDINAL UNDERDRAIN  
(STD. NO. MD-387.11-01)  
90 LF MD 355 - STA. 510+00 RT TO STA. 510+89 RT (OUTLET TO 13-1)  
198 LF MD 355 - STA. 510+89 RT TO STA. 512+87 RT (OUTLET TO 19-1)  
63 LF MD 355 - STA. 512+87 RT TO STA. 513+50 RT (OUTLET TO 19-3)  
20 LF MD 355 - STA. 513+30 LT TO STA. 513+50 LT (OUTLET TO EX. UNDERDRAIN)



MD355/CLARKSBURG ROAD  
INTERSECTION IMPROVEMENTS  
ROADWAY PLAN SHEET

SCALE: 1" = 20' DATE: FEBRUARY 2020 PS-09  
DPS SC/SPM PERMIT SHEET NO. N/A of N/A  
C.I.P. Project No. 508000 22 of 118

MONTGOMERY COUNTY  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRANSPORTATION ENGINEERING  
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED \_\_\_\_\_ Date \_\_\_\_\_

Chief, Division of Capital Development  
\_\_\_\_\_  
Date \_\_\_\_\_

Designed by: JLM Drawn by: JSC Checked by: JLM

NO.	REVISION	DATE	BY