



## White Flint Metro Access Improvements, Mandatory Referral, MR2021032

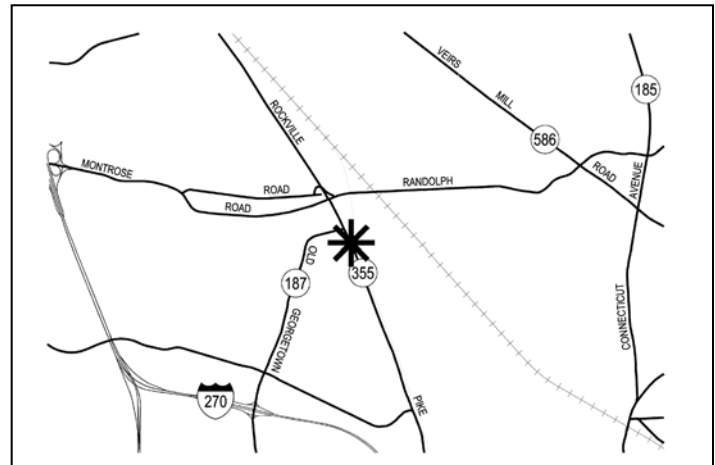
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Completed: 09-23-21

### Description

Construction of new roadway, traffic signal, and pedestrian improvements on MD 355 (Rockville Pike) between Marinelli Drive and Old Georgetown Road in White Flint/North Bethesda, Maryland. The project elements are provision of new sidewalk with buffers along MD 355, and reconstruction of the MD 355/Old Georgetown Road intersection to eliminate channelized right-turn ramps and provide new crosswalks at the intersection.



- Applicant: Montgomery County Department of Transportation
- White Flint Sector Plan (2010)

### Staff Recommendation: Approval with Comments

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## Summary

The Montgomery County Department of Transportation is proposing to construct pedestrian access and safety improvements focusing on the north side of the White Flint Metro station. This is a project advanced by the County Executive to provide short-term improvements for access between the White Flint Metro Station and the Pike and Rose development area and other points to the north. The project includes the following improvements:

- Construction of new 8-foot-wide sidewalks along MD 355, separated from the curb with a 6-foot-wide grass buffer,
- Intersection improvements on MD 355 at Old Georgetown Road to improve pedestrian safety including new crosswalks and the elimination of right-turn lane ramps.

The project location is depicted in Figure 1. The current project, which includes full design and construction cost funding, is listed as CIP Project No. P502106. This project is included in the FY22-FY26 Capital Improvements Program. The planning and design budget listed is \$2.9 million, and this project is scheduled for construction in FY22.

The 35 percent design plan presentation drawings are provided as Attachment A to this report.

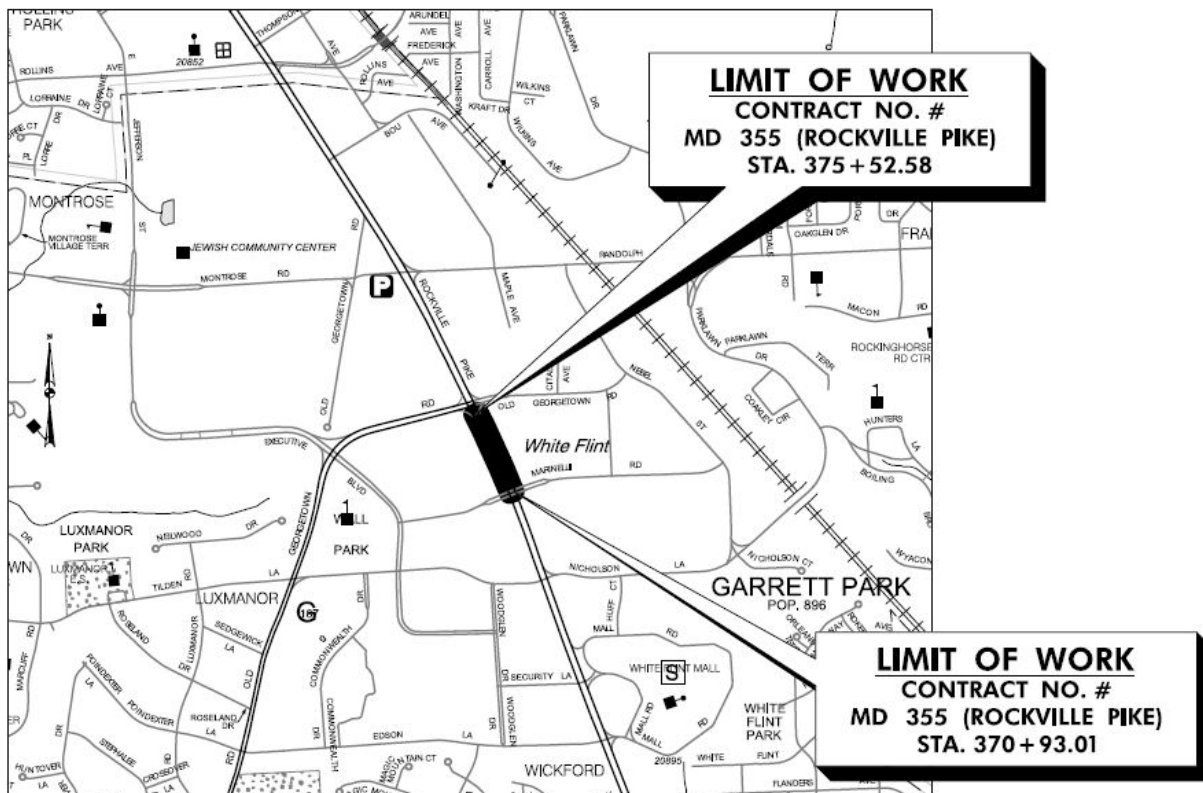


Figure 1: Project Limits and Site Vicinity



## Mandatory Referral Review

This proposal for the construction of pedestrian and road improvements is required to undergo the Mandatory Referral review process under the Montgomery County Planning Department's Uniform Standards for Mandatory Referral Review. State law requires all federal, state, and local governments and public utilities to submit proposed projects for a Mandatory Referral review by the Commission. The law requires the Planning Board to review and approve the proposed location, character, grade and extent of any road, park, public way or ground, public (including federal) building or structure, or public utility (whether publicly or privately owned) prior to the project being located, constructed or authorized.

Planning staff acknowledges that the implementation of master plan transportation recommendations is a challenge faced by the applicant in developing design plans to convert desired master plan recommendations into engineering design drawings. The design process up to 35 percent design typically brings clarity with considerably more detail than considered during a master plan, and issues such as environmental impacts, historical impacts, and construction costs may introduce new factors that need to be weighed in developing a final design solution. It is hoped that the Mandatory Referral process aids in this process to develop an optimal or at least an improved design solution.

## Recommendations

Staff recommends **approval** of this Mandatory Referral with the following comments:

1. For all sidewalk work, crosswalks at driveways should be at sidewalk level.
2. Consider posting "No Turn on Red" on all intersection approaches at the Rockville Pike/Old Georgetown Road intersection.
3. In the NW corner of the Rockville Pike/Old Georgetown Road intersection, extend the existing sidewalk on Old Georgetown Road in a straight line approaching the intersection. Do not bend the sidewalk closer to the curb by 6 feet as shown. Provide a wider sidewalk in the curb extension section near the corner and maintain a 6-foot wide grass buffer.
4. Consider paving treatments in the NE, NW and SW corners of the Rockville Pike/Old Georgetown Road intersection to provide larger pedestrian circulation areas, potentially with plantings and amenities.
5. MCDOT should program a CIP project or expand the White Flint West Workaround project for Old Georgetown Road between Rockville Pike and Towne Road to implement a road diet from 6 to 4 travel lanes and provide improved sidewalks and two-way separated bike lanes on both sides of the road. This should include intersection improvements to accommodate reduced through traffic resulting after the opening of the White Flint West Workaround, particularly the eastbound left turn movement at Rockville Pike, which is projected to reduce by 74-78 percent.<sup>1</sup>
6. Ensure that these interim improvements work/fit with the ultimate cross sections on Old Georgetown Road, consistent with the requested CIP project above. At a minimum, a sketch

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<sup>1</sup> White Flint West Workaround Traffic Operations Analysis Draft Report, Stantec, April 2014.



level concept should be prepared before the White Flint Metro Access improvements are finalized that considers the traffic operational needs on the Old Georgetown Road approaches once the White Flint West Workaround is operational. This concept should include improved sidewalks, two-way separated bike lanes and buffers consistent with the Bicycle Master Plan and the Complete Streets Design Guidelines.

## Proposed Design

### **Project Description**

The White Flint Metro Station Access Improvement Project proposes access and safety improvements for pedestrians using the White Flint Metro Station. Work includes removing the high-speed right turn ramps and channelization islands at all four quadrants of the Old Georgetown Road / Rockville Pike (MD 355) intersection, as well as reconstructing the existing sidewalks along both sides of MD 355 to provide 8-ft sidewalks and 6-ft landscape panels. Street trees and pedestrian lighting will be provided within the new landscape panels.

The construction drawings have been separated into two phases. Phase 1 includes sidewalk reconstruction, landscaping and pedestrian lighting along both sides of MD 355 between the intersections of Old Georgetown Road and Marinelli Road. Phase 2 includes reconstruction of the Old Georgetown Road/MD 355 intersection – removing the existing right turn ramps and islands, sidewalk reconstruction and new pedestrian lighting.

The Old Georgetown Road / Rockville Pike (MD 355) intersection is located within the congested, urban area of North Bethesda. The intersection is located just north of the White Flint Metro Station and is surrounded by multi-level developments that provide office, retail, restaurant, and residential space. There are high pedestrian volumes within the project area. The proposed improvements aim to enhance pedestrian safety and the overall aesthetic of the area.

The proposed improvements provide for bicycle and pedestrian facilities as recommended in the White Flint Sector Plan. ADA compliant sidewalk ramps and crosswalks will also be provided. The proposed typical sections are in compliance with county standards.

The project does not affect any historic properties or resources. The White Flint Metro Station Access Improvements Project does not propose any impacts to park property.

### **Rockville Pike (MD 355)**

Rockville Pike in the project area is generally characterized as a six- to eight-lane arterial roadway between Marinelli Drive and Old Georgetown Road (MD 187). The posted speed limit along Rockville Pike is 40 mph. Figures 2 through 8 displays a view of the road at different locations along Rockville Pike.





*Figure 2: Rockville Pike between Marinelli Road and Old Georgetown Road (MD 197) - (Looking North)*



*Figure 3: Rockville Pike approaching Old Georgetown Road (MD 197) - (Looking North)*





*Figure 4: Rockville Pike at Old Georgetown Road (Looking North)*



*Figure 5: Rockville Pike north of Old Georgetown Road (Looking North)*

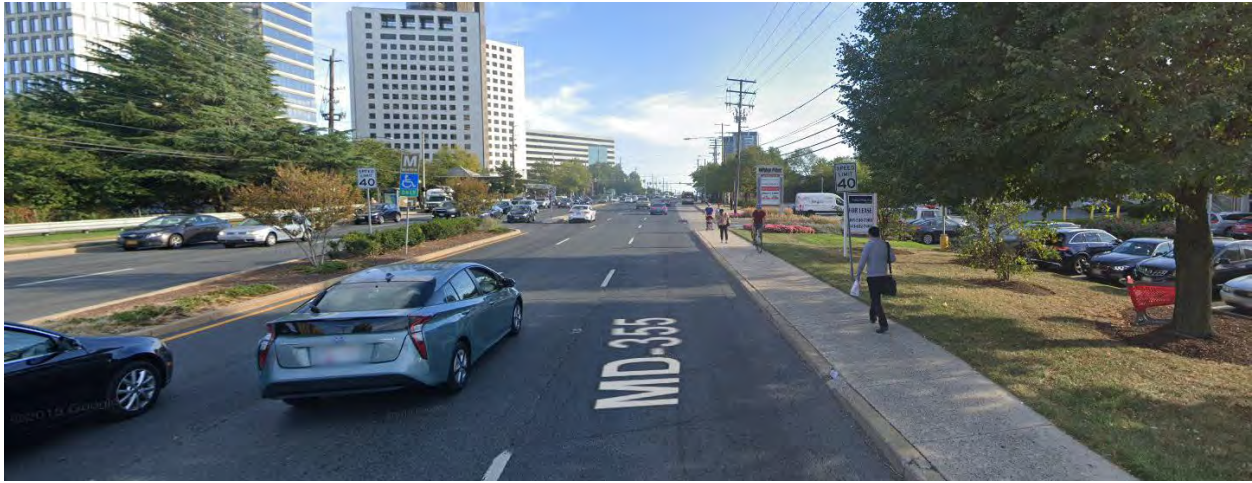


*Figure 6: Rockville Pike at Old Georgetown Road (Looking South)*





*Figure 7: Rockville Pike south of Old Georgetown Road (Looking South)*



*Figure 8: Rockville Pike between Old Georgetown Road and Marinelli Road (Looking South)*

### **Old Georgetown Road**

Old Georgetown Road is currently a six-lane arterial roadway provides a major connection into the Rockville Pike corridor from the south, including connections from I-270 and Bethesda south of the Beltway. The road function changes at its intersection with Rockville Pike. To the west, this road currently is a major highway with a posted speed limit of 30 mph; however to the east, this road is a two-lane business district street with mostly local traffic and a posted speed limit of 30 mph. Photos of Old Georgetown Road at its intersection with Rockville Pike are shown below in Figures 9 and 10. It should be noted that the section of Old Georgetown Road between Rockville Pike and Towne Road is now under county control.

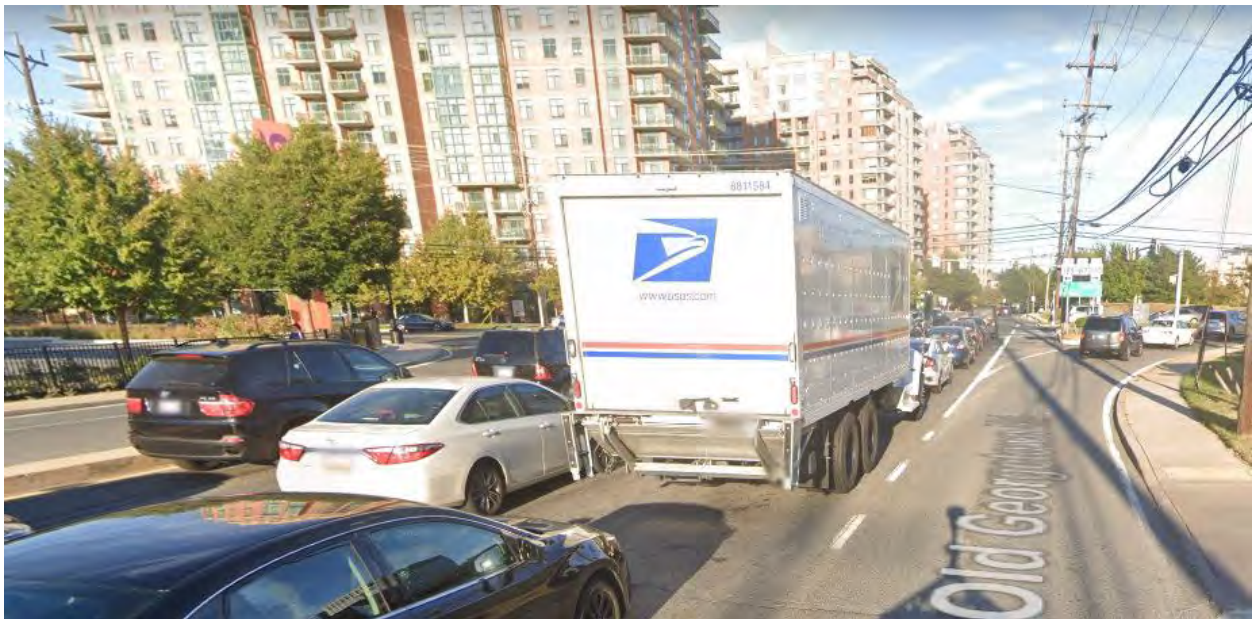




Figure 9: Old Georgetown Road (MD 187) at Rockville Pike (MD 355) - (Looking East)



Figure 10: Old Georgetown Road at Rockville Pike (MD 355) - (Looking West)

### **Proposed Plan View**

The design plans were developed by MCDOT in two phases with the first phase limited to sidewalk improvements along Rockville Pike between Marinelli Road and Old Georgetown Road, and the second phase focused on improvements to the intersection of Rockville Pike (MD 355) with Old Georgetown Road.

Phase 1 design includes only sidewalk improvements along Rockville Pike from approximately midblock between Marinelli Road and Old Georgetown Road up to Old Georgetown Road itself. Figure 11 shows the plan view of the proposed design improvements (North is to the left of this graphic).

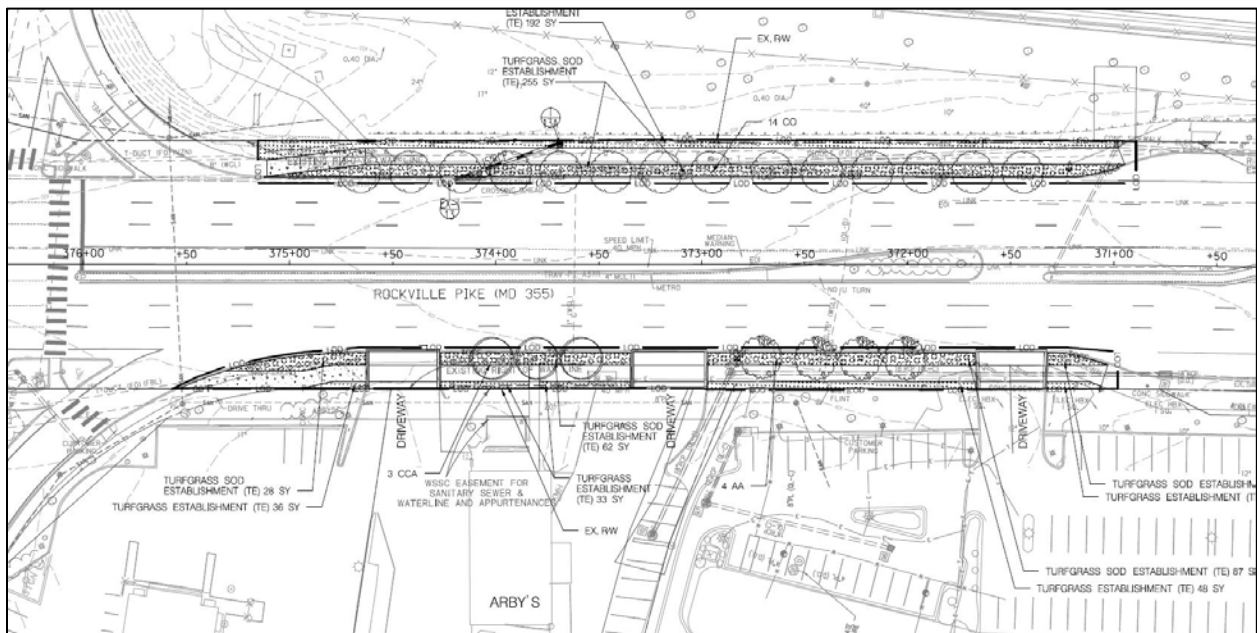


Figure 11: Plan View – Phase 1 Sidewalk Improvements



### Typical Cross Sections – Rockville Pike (MD 355)

PLAN VIEW OF MD 355 (ROCKVILLE PIKE)  
EXISTING CONDITIONS  
STA. 370+93.01 TO 375+21.62

120' EXISTING RIGHT OF WAY

VARIES 4' - 6'

EX. ROW

EX. ROW

CONSTRUCTION MD 355

6' 0" EXIST. SIDEWALK EX

11' SB THRU LANE

11' SB THRU LANE

11' SB THRU LANE

EXIST. MEDIAN

11' LEFT-TURN LANE

11' NB THRU LANE

11' NB THRU LANE

11' NB THRU-RIGHT LANE

6' 0" EXIST. SIDEWALK EX

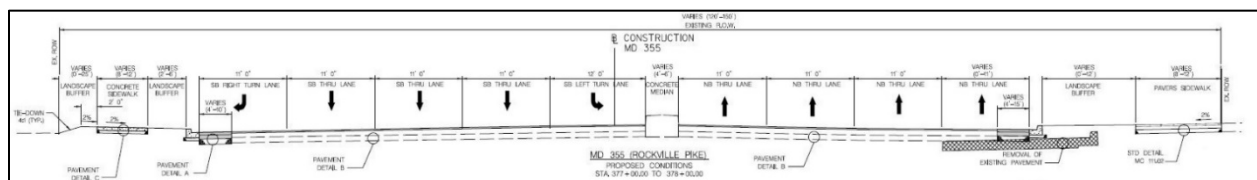
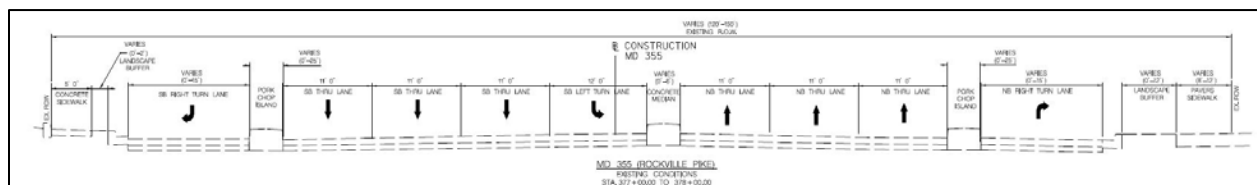
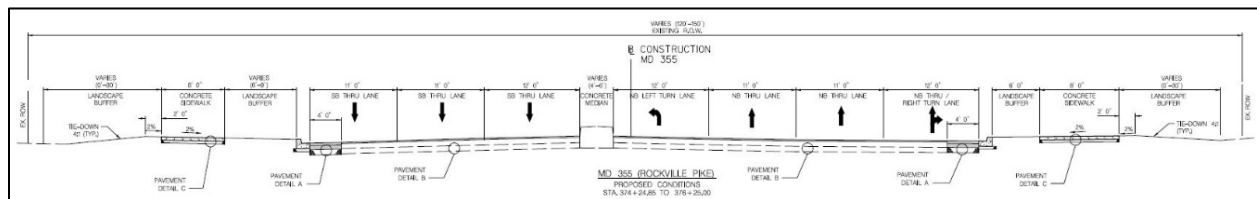
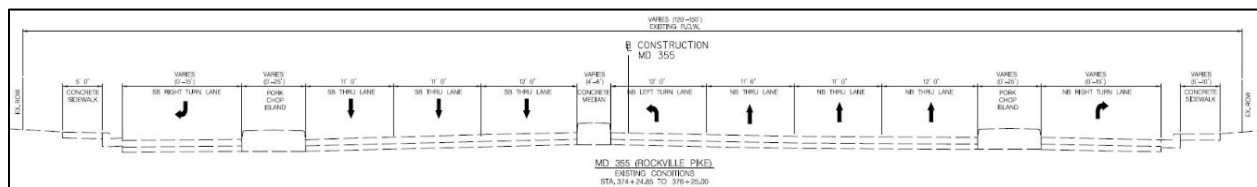
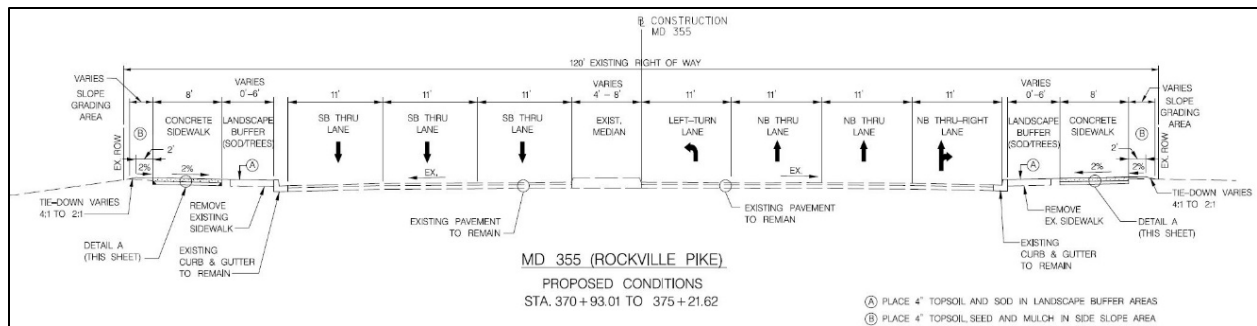
MD 355 (ROCKVILLE PIKE)

EXISTING CONDITIONS

STA. 370+93.01 TO 375+21.62

9





## Old Georgetown Road

Figures 19 through 22 show the proposed existing and typical cross sections on Old Georgetown Road. Similar sidewalk upgrades are also proposed along the Old Georgetown approaches within the intersection area. The sidewalk on the south side of Old Georgetown Road to the west of Rockville Pike is only 5 to 6 feet wide, however the project is introducing a 6 foot wide grass buffer at the intersection.



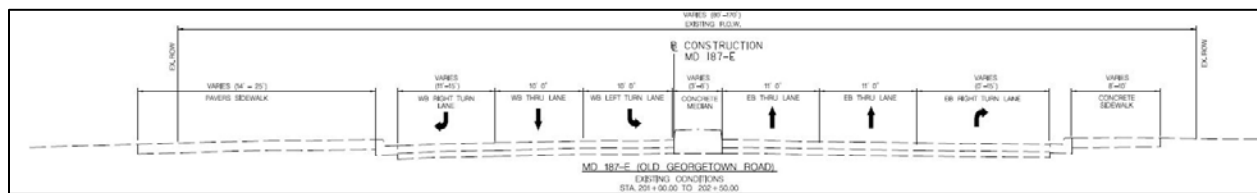


Figure 19: Existing Cross Section – Old Georgetown Road just east of Rockville Pike (Looking East)

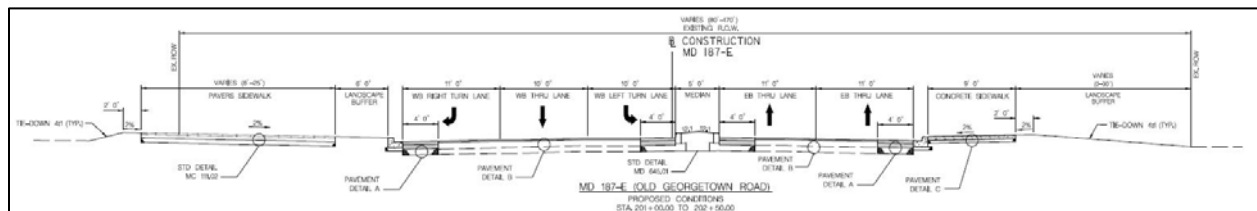


Figure 20: Proposed Phase 2 Cross Section – Old Georgetown Road just east of Rockville Pike (Looking East)

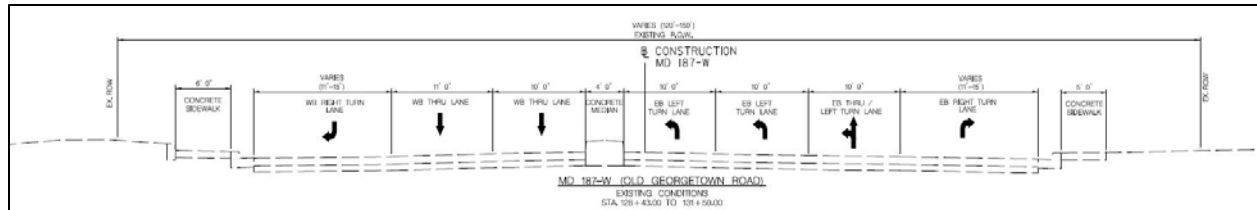


Figure 21: Existing Cross Section – Old Georgetown Road (MD 187) just west of Rockville Pike (Looking East)

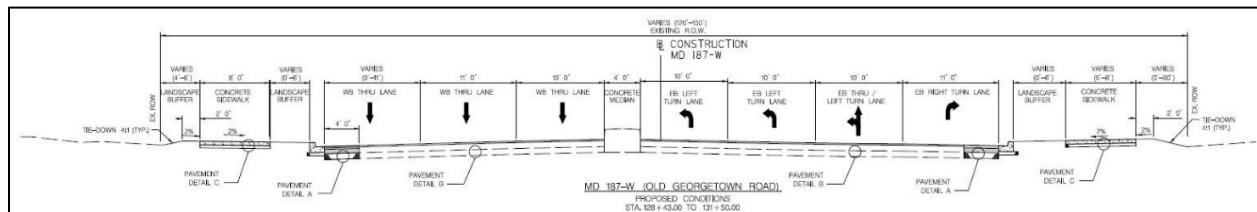


Figure 22: Proposed Phase 2 Cross Section – Old Georgetown Road (MD 187) just west of Rockville Pike (Looking East)

## White Flint West Workaround Project

MCDOT is currently implementing the White Flint West Workaround project, which will dramatically change the regional street network. This project is planned to be fully constructed by November 2022. A map of the proposed project improvements is shown below in Figure 23. The design essentially shifts the routing for MD 187 from the segment of Old Georgetown Road between Rockville Pike and Towne Road to a new alignment on Towne Road between Old Georgetown Road and Montrose Parkway. As part of this design, Towne Road will become an MDOT SHA road and Old Georgetown Road between Rockville Pike and Towne Road will become a county road. Old Georgetown Road between Rockville Pike and Towne Road now has six travel lanes, but it is master planned for only four travel lanes (divided). To-date, MCDOT has not programmed a design project for the segment of Old Georgetown Road between Rockville Pike and Grand Park Avenue. It should be noted that this project is also implementing bicycle facility improvements (unbuffered bike lane) on the block between Towne Road and Grand Park Avenue that are inconsistent with the Bicycle Master Plan.



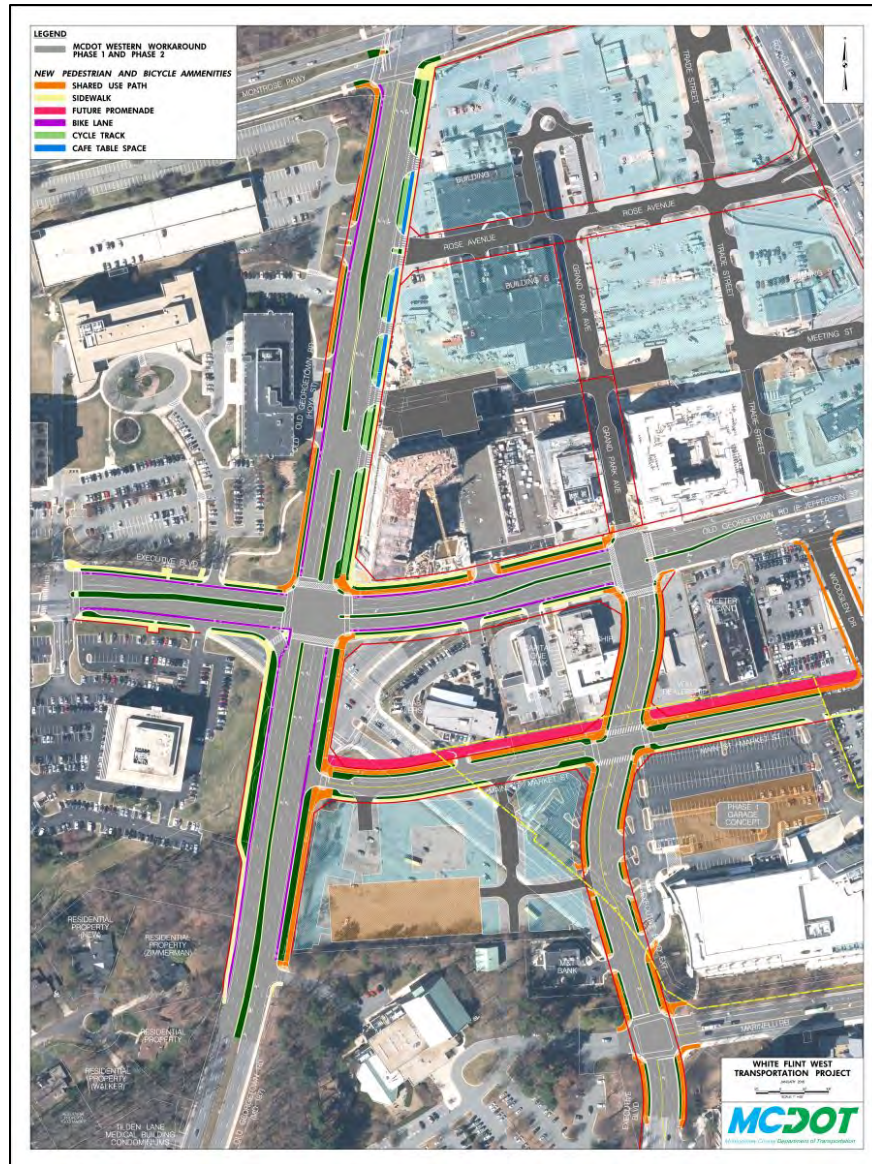


Figure 23: White Flint West Workaround Project

## Transportation Analysis

### **Master Plan Conformance – Transportation**

The 2018 Bicycle Master Plan recommends the following improvements within the project area:

1. Two-way separated bike lanes along both the east and west sides of Rockville Pike,
2. Two-way separated bike lanes along the south side of Old Georgetown Road between Rockville Pike and Nebel Street, and
3. Two-way separated bike lanes along both the north and south sides of Old Georgetown Road between Rockville Pike and Towne Road.

The project is not implementing bicycle improvements, as the focus of this project is on improvements to the short-term pedestrian network. In addition, once the White Flint West Workaround project is complete, there will be a need for MCDOT to modify Old Georgetown Road between Rockville Pike and



Towne Road that has not been programmed to-date. When those plans are developed, full implementation of the Old Georgetown Road Bicycle Master Plan facilities should be included in the design (not the subject project).

For Rockville Pike, MCDOT has been conducting design efforts for the MD 355 Bus Rapid Transit project, and this project will significantly modify where the existing curbs will be located on MD 355. After that project is complete, MCDOT should program funds for the construction of the two-way separated bike lanes on Rockville Pike in this area.

The Master Plan of Highways and Transitways (MPOHT) identifies Rockville Pike between Hillary Way and Montrose Parkway as a Major Highway with a master planned right of way of 150 feet (162 feet) and a master planned target speed of 25 mph. Dedicated median-running Bus Rapid Transit service is planned for this road segment as well. Implementation of the Planning Board-approved Complete Streets Design Guidelines will likely reclassify this segment of Rockville Pike as a Downtown Boulevard.

Old Georgetown Road between Rockville Pike and Towne Road is an existing 6-lane Major Highway with a master planned right of way of 120 feet and a master planned target speed of 25 mph. The planned number of lanes shows a reduction from 6 travel lanes to 4 travel lanes. Per the Planning Board-approved Complete Streets Design Guidelines, this road will likely be reclassified as a Downtown Boulevard.

Old Georgetown Road between Rockville Pike and Nebel Street is an existing 2 to 3-lane Business District Street with a master planned right of way of 90 feet and a master planned target speed of 25 mph. The planned number of lanes shows an increase from 2 to 4 travel lanes. Per the approved Complete Streets Design Guidelines, this road will likely be reclassified as a Downtown Street.

### **Design Elements – Transportation**

Roadway Design: Rockville Pike will likely be classified as a Downtown Boulevard per the Planning Board-approved Complete Streets Design Guidelines. Old Georgetown Road will likely be classified as a Downtown Boulevard between Towne Road and Rockville Pike and as a Downtown Street between Rockville Pike and Nebel Street. The configuration of these interim improvements in relationship to the ultimate cross section is difficult to determine, as there is no developed concept plan of what the intersection will look like once the White Flint West Workaround project is complete, the Master Plan recommendations for improved sidewalks and bikeways are implemented, and the vehicular needs with the White Flint West Workaround are reassessed and used to reduce vehicular lane needs primarily on Old Georgetown Road. The White Flint West Workaround project surprisingly left off the last two blocks of Old Georgetown Road between Rockville Pike and Grand Park Avenue, and this needs to be addressed by the applicant before this current design is finalized. Staff suggests that a new CIP project or expansion of the Workaround project is needed to fill in this gap.

Sidewalk Design: In the Planning Board-approved Complete Streets Design Guidelines, a Downtown Boulevard has a default sidewalk width of 15 feet (10 feet minimum). The Guidelines also require that all driveways cross sidewalks at sidewalk level. The proposed 8-foot-wide sidewalks, while consistent with minimum widths required per the Americans with Disabilities Act (ADA), are deficient per these new county standards.

It should be noted that the current design is improving the pedestrian network focusing on the intersection of Rockville Pike and Old Georgetown Road. When MCDOT programs a separate CIP project for Old Georgetown Road between Rockville Pike and Towne Road, two-way separated bike lanes will be required on both sides of Old Georgetown Road. A continuous sidewalk meeting the above Downtown Boulevard standards (15 feet default, 10 feet minimum with 6-foot grass buffer) would also need to be



included in modifying the existing sidewalks on both sides of the road along this entire section (which now vary from 5 to 8 often without adequate buffers). We also note that a separate ped/bike buffer (6 feet default, 2 feet minimum) should also be included in the future CIP project.

**Intersection Improvements:** With the proposed improvements, the intersection of Rockville Pike with Old Georgetown Road will be significantly more pedestrian-friendly, more urban in layout and provide a sense of place, while still providing significant traffic capacity. There are ways to improve on this design from both a safety and aesthetic perspective. First, as an intersection close to Metro and the Pike and Rose development, pedestrian crossings should be as safe as possible, and therefore right turns should be prohibited on red lights and “No Turn on Red” signs should be posted for all approaches of this intersection.

From the aesthetic side, this does seem to be an opportunity to make the intersection corners more attractive and functional, with the use of paving treatments and planters and pedestrian amenities consistent with current and developing streetscape guidelines in the White Flint/Pike District area. Currently, the design of these corners is very utilitarian. This is an opportunity that should not be lost.

There is also a sidewalk layout issue on Old Georgetown Road in the northwest corner as shown below in Figure 24. The proposed sidewalk (shown in yellow shading) leaves the intersection heading west and then does a jog or shift to the north to connect to the existing sidewalk. Staff recommends eliminating the jog and extending the sidewalk directly toward the intersection corner as highlighted in blue shading in the graphic. This has an added benefit of widening the sidewalk in this location.

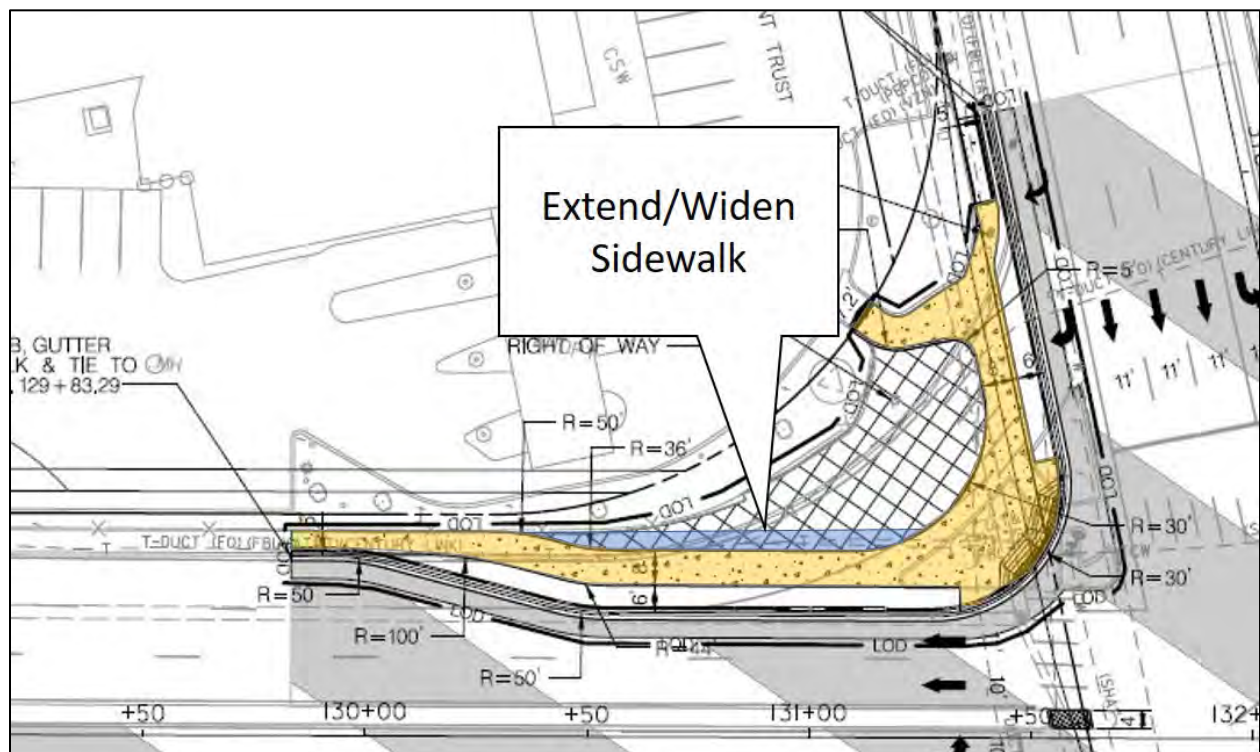


Figure 24: Rockville Pike/Old Georgetown Road Intersection – Potential Sidewalk Improvement

## Historic Resources Analysis

There are no historic resources within the project area.



## Forest Conservation/Environmental Guidelines

A Forest Conservation Exemption was confirmed for this project on March 12, 2021 (FCE number 42021170E); therefore, approval of a Forest Conservation Plan is not required for this Mandatory Referral. The simplified Natural Resources Inventory accompanying the Forest Conservation Exemption noted that the limits of work do not include any streams or their buffers, wetlands or wetland buffers, 100-year floodplains, hydraulically-adjacent steep slopes, or known occurrences of Rare, Threatened, and Endangered Species. The site is not within a Special Protection Area. There is no forest, and no specimen trees within the limits of work. A stormwater concept plan was approved by the Montgomery County Department of Permitting Services on May 24, 2021. The project as submitted is in compliance with Chapter 22A (the Forest Conservation Law) and in conformance with the Montgomery County Planning Department's Environmental Guidelines.

Staff recommends that the Landscape Plan replace the Chinese elm trees with one of the new variants of American elm that are resistant to Dutch elm disease, or with another suitable native tree species.

## Community Outreach and Notification

This application was noticed in accordance with the Uniform Standards for Mandatory Referral Review. Throughout the project design process, proposed concepts were presented to key stakeholders, as well as the community. This project is an initiative from the County Executive to advance short-term funding and solutions to address pedestrian connectivity from the White Flint Metro Station. A presentation was made by the applicant to the White Flint Implementation Committee on July 12, 2021.

## Conclusion

Based on information provided by the applicant and the analysis contained in this report, staff concludes that the proposed White Flint Metro Access Improvement project can be designed with some modifications to meet Master Plan and relevant design standards as specified in the Recommendations section of this staff report.

## Attachment

A. Proposed Project Plans



Wednesday, March 17, 2021 AT 11:28 AM  
U:\2026213204\700 CADD\701 Sheet\Phase 1\PCN-TOOL\_WFMetro.dgn

THE FOLLOWING MARYLAND STANDARD (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) DETAILS ARE REQUIRED FOR THE PROJECT:

MD 104.03-02 – SHOULDER WORK/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH  
MD 104.05-15 – STANDARD RAMP  
MD 381.01 – STANDARD YARD INLET  
MD 580.03 – NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT  
MD 620.02-01 – STANDARD TYPES C AND D CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER  
MD 630.02 – STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL AND COMMERCIAL, METHOD NO. 2  
MD 655.40 – DETECTABLE WARNING SURFACES

FOR ALL STANDARDS REFERRED TO ON THE PLANS, THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE ACCESSED AT: <https://apps.roads.maryland.gov/BusinessWithSHA/bizStdSpecs/desManualStdPub/publicationsonline/ohd/bookstd/index.asp>. ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

INDEX OF SHEETS		
SHEET NO.	DRAWING NO.	SHEET NAME
1	TI-01	TITLE SHEET
2	GN-01	GENERAL NOTES, STANDARD SYMBOLS, & ABBREVIATIONS
3	GS-01	GEOMETRIC LAYOUT
4	TS-01	TYPICAL SECTION & PAVING DETAILS
5	PS-01	ROADWAY PLAN
6	PR-01	ROADWAY PROFILE
7	GR-01	GRADING PLAN
8	LN-01	LANDSCAPING PLAN
9	LN-02	LANDSCAPING NOTES & DETAILS
10	LT-01	LIGHTING PLAN
11	LT-02	LIGHTING NOTES & DETAILS
12	MT-01	MAINTENANCE OF TRAFFIC GENERAL NOTES
13	MT-02	MAINTENANCE OF TRAFFIC PLAN
14	MT-03	MAINTENANCE OF TRAFFIC PLAN
15	MT-04	MAINTENANCE OF TRAFFIC PLAN
16	MT-05	MAINTENANCE OF TRAFFIC PLAN
17	MT-06	MAINTENANCE OF TRAFFIC PLAN
18	MT-07	MAINTENANCE OF TRAFFIC PLAN
19	MT-08	MAINTENANCE OF TRAFFIC PLAN
20	SN-00	SIGNING & PAVEMENT MARKING NOTES
21	SN-01	SIGNING & PAVEMENT MARKING PLAN
22	SN-02	SIGNING & PAVEMENT MARKING PLAN
23	XS-01	ROADWAY CROSS SECTIONS
24	XS-02	ROADWAY CROSS SECTIONS
25	XS-03	ROADWAY CROSS SECTIONS
26	XS-04	ROADWAY CROSS SECTIONS
27	XS-05	ROADWAY CROSS SECTIONS
28	XS-06	ROADWAY CROSS SECTIONS

## OWNER'S CERTIFICATION

I 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.

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

## 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 REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED AUGUST 1988.

I FURTHER CERTIFY THAT THE ESTIMATED TOTAL AMOUNTS OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 342 CUBIC YARDS OF EXCAVATION AND 200 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 17,947 SQUARE FEET.

2021-03-18  
DATE \_\_\_\_\_  
LORI R. ADGATE, P.E.  
MD. REGISTRATION NO. 28255



**Stantec**  
6110 FROST PLACE,  
LAUREL, MARYLAND 20707  
(301) 982-2900  
[www.stantec.com](http://www.stantec.com)

ALL AREAS OF SHA PROPERTY AND PROPERTY TO BE DEDICATED TO SHA SHALL BE RESTORED IN CONFORMANCE WITH SHA STANDARD SPECIFICATIONS, EXCEPT AS NECESSARY FOR WORK FOR WHICH THERE ARE NO SHA STANDARD SPECIFICATIONS.

PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL".

PROFESSIONAL CERTIFICATION:  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO.: 28255 EXPIRATION DATE: 6-30-2022

PROJECT MANAGER  
REBECCA PARK  
100 Edison Park Drive, 4th Floor  
Gaithersburg, MD 20878  
240-777-7263  
[rebecca.park@montgomerycountymd.gov](mailto:rebecca.park@montgomerycountymd.gov)

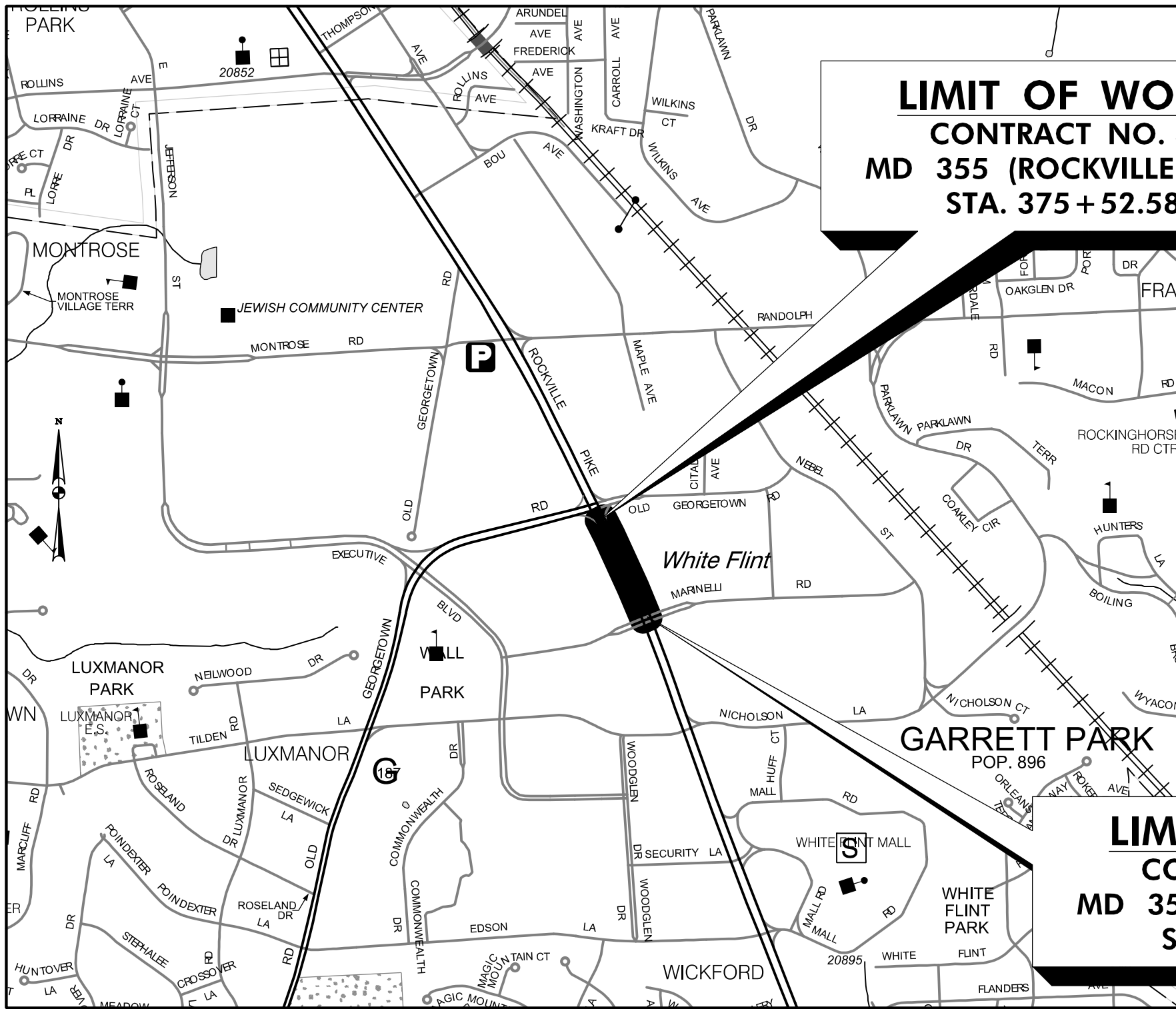


NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
TITLE SHEET	
SCALE : N.T.S.	DATE : FEB 2021
Project No. : 502106	SHEET 01 of 28

# MONTGOMERY COUNTY, MARYLAND DEPARTMENT OF TRANSPORTATION WHITE FLINT METRO STATION ACCESS IMPROVEMENTS PHASE 1 – SIDEWALK RECONSTRUCTION C. I. P. PROJECT NO. 502106 SHA TRACKING NO. 21-AP-MO-003-XX



VICINITY MAP  
SCALE: 1" = 1000'

RELATED REQUIRED PERMITS					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT					
TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MDPS Floodplain District		X			
WATERWAYS/WETLAND(S)					
a. Corps of Engineers		X			
b. MDE		X			
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
*DPS Roadside Trees Protection Plan		X		Approval Date	
N.P.D.E.S. - NOTICE OF INTENT		X	REGISTRATION NO. XXXXXXX		DATE FILED XX/XX/XXXX
FEMA (OMR (Required Post Construction)		X			
OTHERS:					
DPS Erosion and Sediment Control		X	XXXXXX		
MDCPPC Permit		X	XXXXXX		
* A copy of the Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting.					
OWNER/PERMIT APPLICANT INFORMATION					
NAME:	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION				
ADDRESS:	100 EDISON PARK DRIVE, GAITHERSBURG, MD 20878				
PHONE NUMBER:	(240) 777-7209				
CONTACT PERSON:	TIMOTHY H. CUPPLES, P.E.				

PS&E SUBMITTAL  
MARCH 2021

## APPROVALS:

TRAFFIC CONTROL PLANS	SIGNATURE _____	DATE _____
LIGHTING PLANS	SIGNATURE _____	DATE _____
SIGNING & PAVEMENT MARKING PLANS	SIGNATURE _____	DATE _____
TRAFFIC SIGNAL PLANS	SIGNATURE _____	DATE _____

TI-01



Wednesday, March 17, 2021 AT 12:34 PM  
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GENERAL NOTES

- I. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2020, ALL ERATA AND ADDENDA THERETO, THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
2. FOR CONSTRUCTION, HORIZONTAL SHALL BE BASED ON NAD 83/91 DATUM AND VERTICAL SHALL BE BASED ON NAVD 1988 DATUM.
3. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
4. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
5. CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
6. CLEARING IS TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
7. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
8. THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
9. THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLATS.
10. THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSINGS. LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.
11. THE DESIGN FOR THIS PROJECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAPPED IN COMPLIANCE WITH STATE AND FEDERAL LEGISLATION.

ABBREVIATIONS

A.A.S.H.T.O. .... American Association of State Highway Transportation Officials	E. .... East	L.L. .... Liquid Limit	PROP. .... Proposed	STD. .... Standard
ABAN. .... Abandoned	E. .... Electric	LOD .... Limit of Disturbance	PRC .... Point of Reverse Curve	STA. .... Station
ABUT. .... Abutment	e .... External Distance	LONG. .... Longitudinal	PT. .... Point	STIFF. .... Stiffener
ADT .... Average Daily Traffic	EA. .... Each	L.P. .... Light Pole	PT. .... Point of Tangency	SO. .... Single Opening
AHD. .... Ahead	E.B. .... Eastbound	LT. .... Left	PVC .... Point of Vertical Curve	S.Y. .... Square Yards
APPROX. .... Approximate	E.J. .... Expansion Joint	MAC. .... Macadam	P.V.C. .... Polyvinyl Chloride	SWM .... Stormwater Management
B. or BL. .... Baseline	EL. or ELEV. .... Elevation	MAX. .... Maximum	PVI .... Point of Vertical Intersection	T. .... Tangent
BK. .... Back /Book	E.R.C.C.P. .... Elliptical Reinforced Cement Concrete Pipe	MB. .... Micro Bio	PVRC .... Point of Vertical Reverse Curve	T. .... Telephone
BIT. .... Bituminous	ES. .... End Section	MC. .... Moisture Content	PVT. .... Point of Vertical Tangency	T.C. .... Top of Cover
B.C. .... Bituminous Concrete	EX. or EXIST. .... Existing	MDD. .... Maximum Dry Content	R. .... Radius	TEMP. .... Temporary
B.M. .... Bench Mark	FT. .... Feet	MOD. .... Modified	REINF. .... Reinforcement	T.G. .... Top of Grate
B.O.F. .... Bottom of Footing	F. or FL. .... Flowline	MIN. .... Minimum	REQ'D .... Required	T.B.R. .... To Be Removed
BOT. .... Bottom	F.B.D. .... Flat Bottom Ditch	MN. .... Managed Roadway	R.F. .... Rock Fragments	T. or TL. .... Traverse Line
BRG. .... Bearing	F.H. .... Fire Hydrant	M.S.E. .... Mechanically Stabilized Earth	RT. .... Right	T.M. .... Top of Manhole
C.C. .... Center of Curve	F.O. .... Fiber Optic	N. .... North	RW. or RW. .... Right of Way	T.O.F. .... Top of Footing
CATV. .... Cable Television	F.S. .... Full Super Elevation	NB. .... Northbound	R.C.P. .... Reinforced Cement Pipe	TRAV. .... Traverse
C.B.R. .... California Bearing Ratio	FWD. .... Forward	NE. .... Northeast	R.C.C.P. .... Reinforced Cement Concrete Pipe	TS. .... Temporary Swale
C.J. .... Contraction Joint	G. .... Gas	NO. .... Number	R.Q.D. .... Rock Quality Designation	T.S. .... Top of Slab
C. or CL. .... Centerline	GL. .... Gutterline	NP. .... Non-Plastic	R.M. .... Rootmat	T.S. .... Topsoil
CL. .... Class or Clear	GP. .... General Purpose Roadway	N.T.S. .... Not To Scale	S. .... South	TYP. .... Typical
CLF. .... Chainlink Fence	G.V. .... Gas Valve	O.C. .... On Center	SAN. .... Sanitary Sewer	U.D. .... Under Drain
CMP. .... Corrugated Metal Pipe	H.B. .... Handbox	OH. .... Overhead	SB. or SB. .... Southbound	U.G. .... Underground
C.O. .... Cleanout	H.D.P. .... High Density Polyethylene	OMC. .... Optimum Moisture	S.D. .... Storm Drain	U.O.N. .... Unless Otherwise Noted
COMB. .... Combination	HDWL. .... Headwall	PAV'T. .... Pavement	S.D.D. .... Surface Drain Ditch	U.P. .... Utility Pole
CONC. .... Concrete	H.E.R.C.P. .... Horizontal Elliptical Reinforced Concrete Pipe	PC. .... Point of Curvature	SE. .... Super Elevation	USC .... Unified Soil Classification
CONSTR. .... Construction	H.P. .... High Point	PCC. .... Point of Compound Curvature	SF. .... Silt Fence	USDA .... United States Department of Agriculture
COR. .... Corner	H.S.D. .... Headlight Sight Distance	PC. .... Point of Crown	S.F. .... Square Feet	VCL. .... Vertical Clearance
CORR. .... Correction	IN. .... Inch	PGE. .... Profile Grade Elevation	SHLDR. .... Shoulder	V.C.L. .... Vertical Curve Length
C.Y. .... Cubic Yard	I.S.T. .... Inlet Sediment Trap	P.G.L. .... Profile Grade Line	SHA. .... State Highway Administration	W. .... Water
DC. .... Degree of Curve	INV. .... Invert	P/GL. .... Profile Ground Line	SHA MB. .... State Highway Administration Micro Bio	W. .... West
D.H.V. .... Design Hourly Volume	J.B. .... Junction Box	R. .... Plate	SHT. .... Sheet	W.B. .... Westbound
D.I. .... Drop Inlet	K. .... K Inlet	P/R. .... Point of Rotation	S.P.P. .... Structural Plate Pipe	WB. .... Wetland Buffer
DIA. .... Diameter	L. .... Length	P.I. .... Plasticity Index	S.P.T. .... Standard Penetration Testing	W.M. .... Water Meter
D.O. .... Double Opening	L.F. .... Linear Feet	P.I. .... Point of Intersection	S.S. .... Stainless Steel	W.S. .... Wrapped Steel
D.S. .... Design Speed		POC. .... Point On Curve	SSD. .... Stopping Sight Distance	
DWG. .... Drawing		POT. .... Point On Tangent	SSF. .... Super Silt Fence	

SYMBOLS

EXISTING RIGHT OF WAY LINE .....	-----	LIMIT OF DISTURBANCE .....	LOD
PROPOSED RIGHT OF WAY LINE .....	=====	SILT FENCE .....	SF
PROPOSED TRAFFIC BARRIER .....	=====	SUPER SILT FENCE .....	SSF
EXISTING TRAFFIC BARRIER .....	=====	DIVERSION FENCE .....	DF
EXISTING WOOD FENCE LINE .....	=====	STONE CHECK DAM .....	CD
EXISTING CHAIN LINK FENCE LINE .....	=====	TEMPORARY STONE OUTLET STRUCTURE .....	TSOS
BASE OR SURVEY LINE .....	=====	TEMPORARY GABION OUTLET STRUCTURE .....	TSOS
EXISTING FIRE HYDRANT .....	=====	AT-GRADE INLET PROTECTION .....	AGIP
PROPOSED STORM DRAIN .....	=====	CURB INLET PROTECTION .....	CIP
PROPOSED STORM DRAIN INLET .....	=====	MEDIAN INLET PROTECTION .....	MIP
PROPOSED STORM DRAIN MANHOLE .....	=====	STANDARD INLET PROTECTION .....	SIP
EXISTING STORM DRAIN .....	=====	COMBINATION INLET PROTECTION .....	COLIP
EXISTING INLET .....	=====	STABILIZED CONSTRUCTION ENTRANCE .....	SCE
EXISTING UTILITY POLE .....	=====	PROPOSED UTILITY POLE .....	=====
EXISTING TREE .....	=====	PROPOSED UTILITY CONDUIT .....	=====
EXISTING TREE LINE .....	=====	PROPOSED UTILITY VAULT .....	=====
CUT SLOPE .....	=====	EXISTING GAS .....	G
FILL SLOPE .....	=====	EXISTING WATER .....	W
STREET LIGHT .....	=====	EXISTING SEWER .....	SS
STREET LIGHT HANDBOX .....	=====	EXISTING FIBER OPTIC .....	FO
STREET LIGHT CONDUIT .....	=====		
EXISTING CONTOUR (MINOR) .....	=====		
EXISTING CONTOUR (MAJOR) .....	=====		

GN-01



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OF MARYLAND.  
LICENSE NO: 28255 EXPIRATION DATE: 6-30-2022



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL SEE TITLE SHEET FOR SIGNATURES Chief, Design Section APPROVED	Date
SEE TITLE SHEET FOR SIGNATURES Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

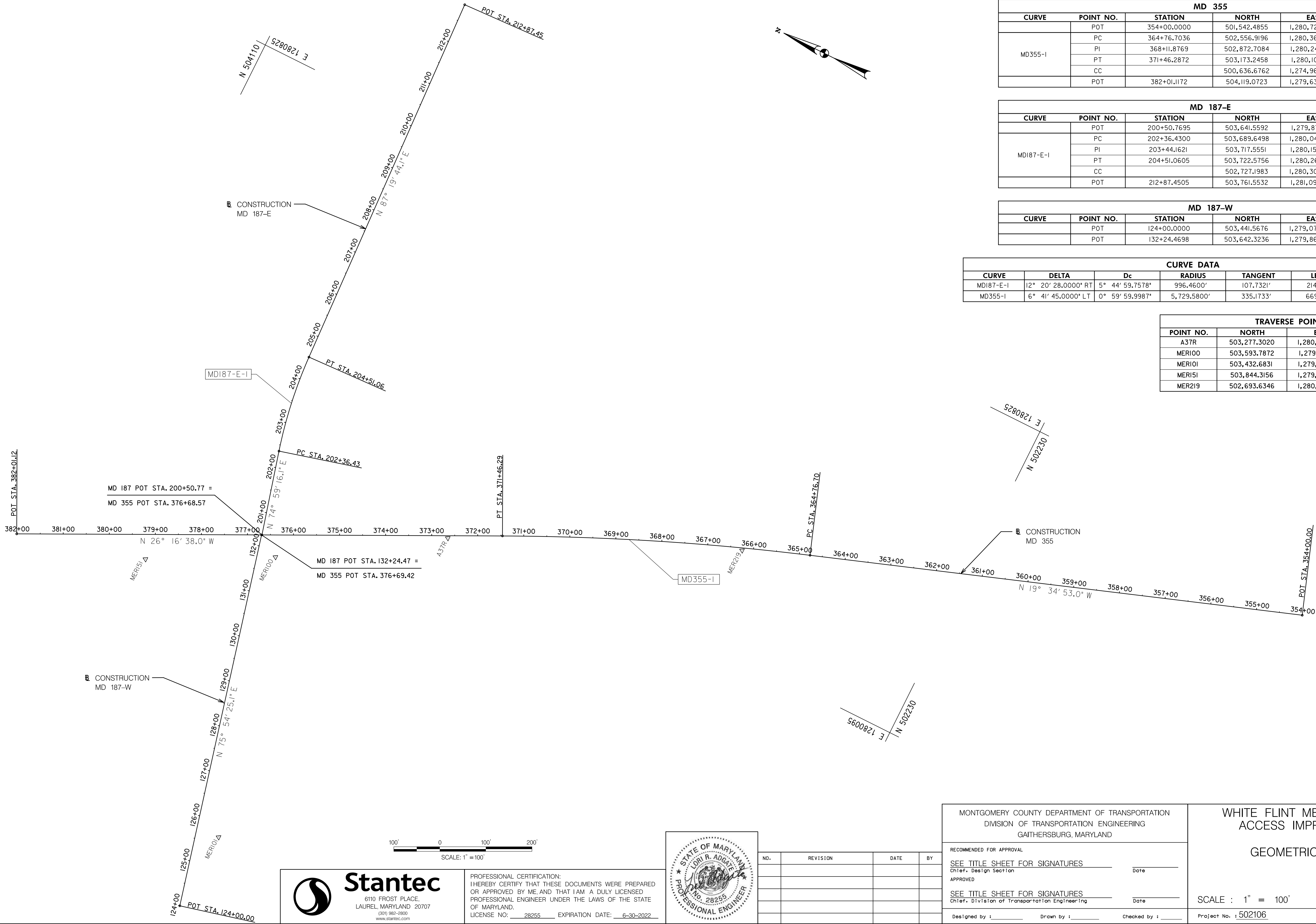
GENERAL NOTES,  
SYMBOLS AND ABBREVIATIONS

SCALE : NO SCALE DATE : FEB 2021

Project No. : 502106 SHEET 02 of 28



Wednesday, March 17, 2021 AT 12:39 PM  
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MD 355					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
MD355-I	POT	354+00.0000	501,542.4855	1,280,722.8952	N 19° 34' 53.00" W
	PC	364+76.7036	502,556.9196	1,280,362.0427	N 19° 34' 53.00" W
	PI	368+11.8769	502,872.7084	1,280,249.7109	N 26° 16' 38.00" W
	PT	371+46.2872	503,173.2458	1,280,101.3247	N 26° 16' 38.00" W
	CC		500,636.6762	1,274,963.8252	
	POT	382+01.1172	504,119.0723	1,279,634.3359	N 26° 16' 38.00" W

MD 187-E					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
MD187-E-I	POT	200+50.7695	503,641.5592	1,279,870.1014	N 74° 59' 16.13" E
	PC	202+36.4300	503,689.6498	1,280,049.4255	N 74° 59' 16.13" E
	PI	203+44.1621	503,717.5551	1,280,153.4808	
	PT	204+51.0605	503,722.5756	1,280,261.0958	N 87° 19' 44.13" E
	CC		502,727.1983	1,280,307.5330	
	POT	212+87.4505	503,761.5532	1,281,096.5771	N 87° 19' 44.13" E

MD 187-W					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
	POT	124+00.0000	503,441.5676	1,279,070.0694	N 75° 54' 25.08" E
	POT	132+24.4698	503,642.3236	1,279,869.7240	

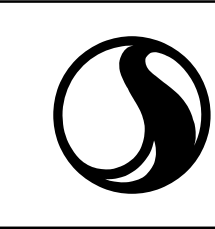
CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
MD187-E-I	12° 20' 28.0000" RT	5° 44' 59.7578"	996.4600'	107.7321'	214.6305'	5.8068'
MD355-I	6° 41' 45.0000" LT	0° 59' 59.9987"	5,729.5800'	335.1733'	669.5836'	9.7952'

TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
A37R	503,277.3020	1,280,044.1760	402.65
MER100	503,593.7872	1,279,840.1414	399.62
MER101	503,432.6831	1,279,240.9519	384.56
MER151	503,844.3156	1,279,710.0597	398.80
MER219	502,693.6346	1,280,305.5218	405.88

GS-01

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND			
RECOMMENDED FOR APPROVAL			
SEE TITLE SHEET FOR SIGNATURES		Date	
Chief, Design Section			
APPROVED			
SEE TITLE SHEET FOR SIGNATURES		Date	
Chief, Division of Transportation Engineering			
Designed by : _____		Checked by : _____	

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
GEOMETRIC LAYOUT	
SCALE : 1" = 100'	DATE : MARCH 2021
Project No. : 502106	SHEET 03 of 28



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6110 FROST PLACE,  
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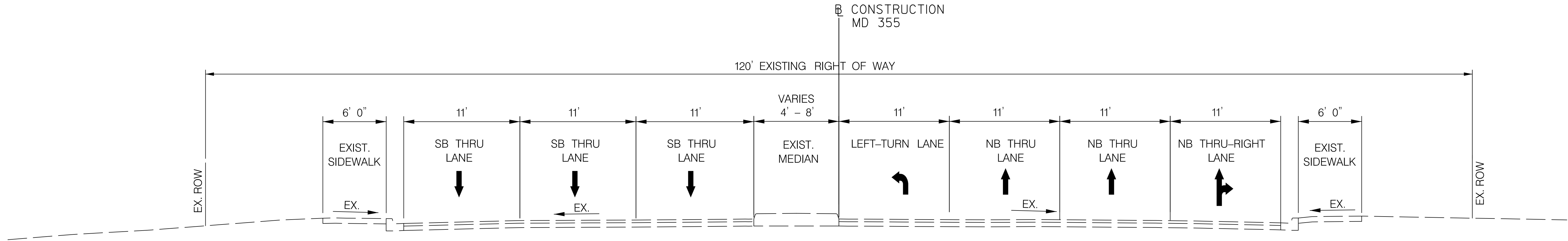
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LICENSE NO: 28255 EXPIRATION DATE: 6-30-2022



NO.	REVISION	DATE	BY

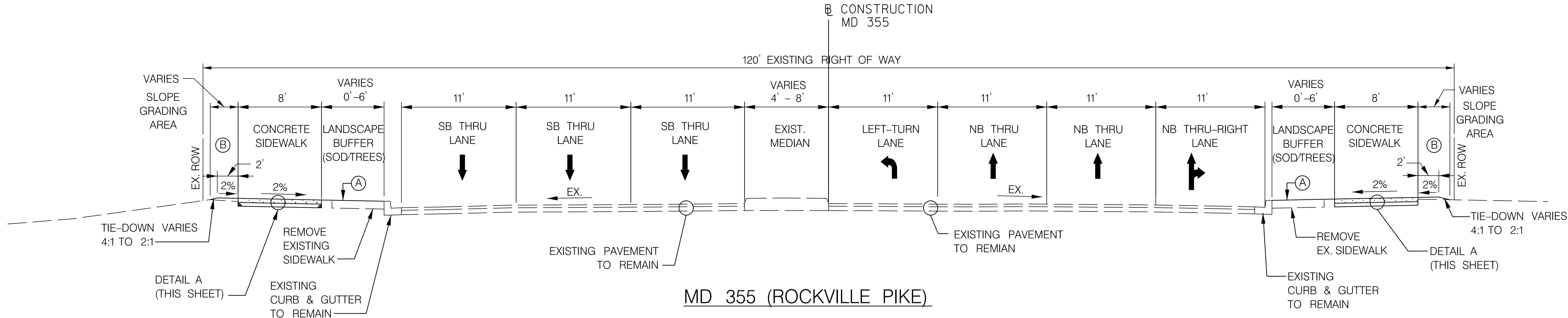


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**MD 355 (ROCKVILLE PIKE)**

EXISTING CONDITIONS  
STA. 370+93.01 TO 375+21.62

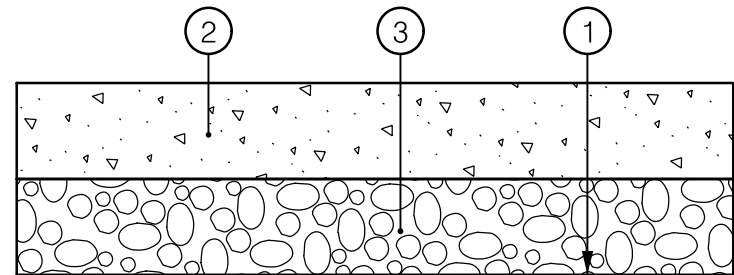


**MD 355 (ROCKVILLE PIKE)**

PROPOSED CONDITIONS  
STA. 370+93.01 TO 375+21.62

- (A) PLACE 4" TOPSOIL AND SOD IN LANDSCAPE BUFFER AREAS  
(B) PLACE 4" TOPSOIL, SEED AND MULCH IN SIDE SLOPE AREA

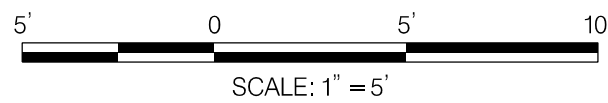
**NOTE:**  
MDOT SHA STANDARD 580.03, NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT, SHALL BE USED IF EXISTING COMBINATION CURB AND GUTTER IS DAMAGED DURING CONSTRUCTION OF THE PROPOSED SIDEWALK AND DRIVEWAY IMPROVEMENTS.



DETAIL A  
CONCRETE SIDEWALK  
N.T.S.

**PAVEMENT LEGEND**

- ① TOP OF SUBGRADE AND LIMIT OF CLASS 2 EXCAVATION  
② 5" CONCRETE (MDSHA STD. MD 655.01)  
③ 4" GRADED AGGREGATE BASE



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LICENSE NO: 28255 EXPIRATION DATE: 6-30-2022



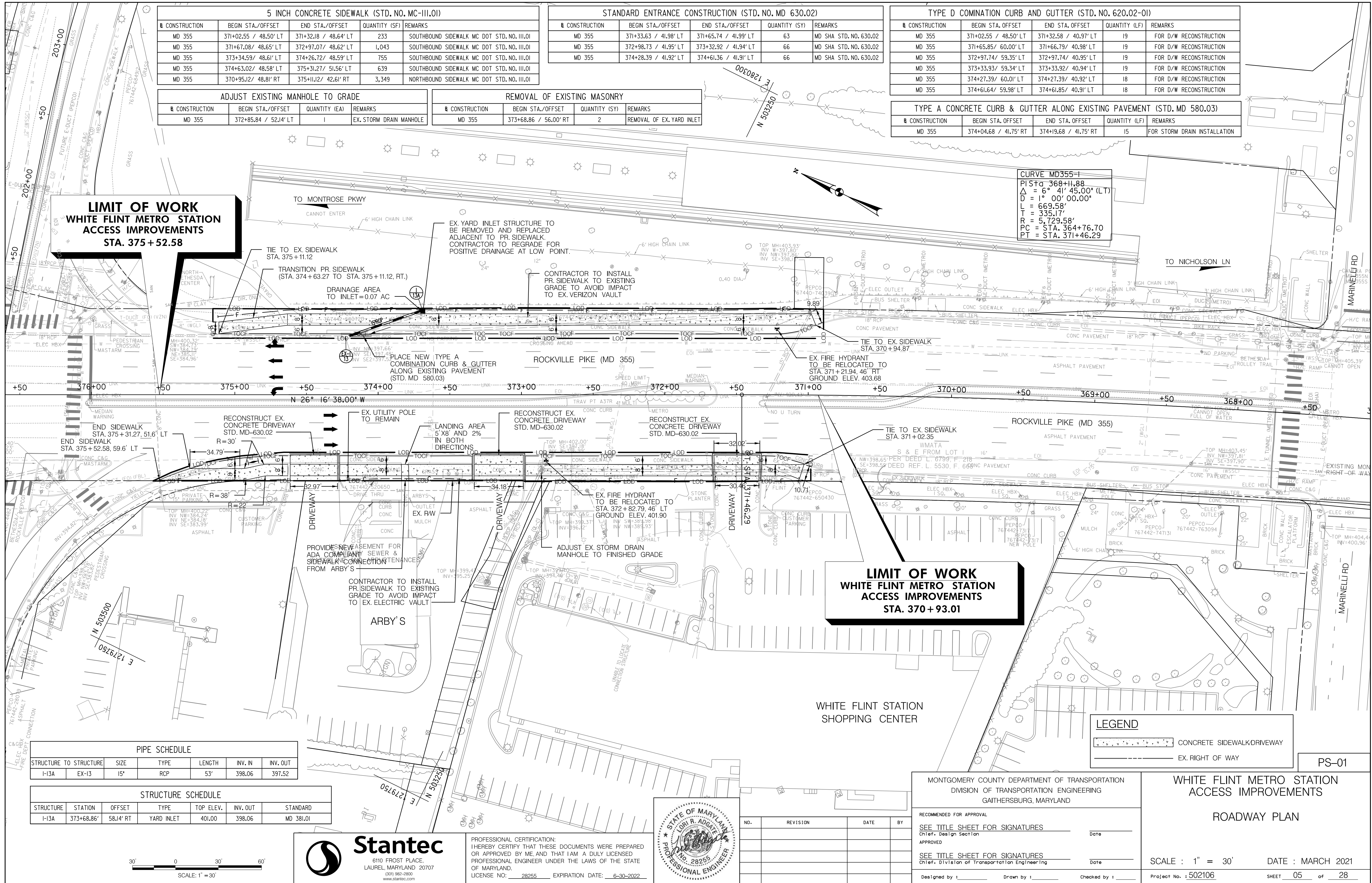
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
SEE TITLE SHEET FOR SIGNATURES Chief, Design Section	Date
APPROVED	
SEE TITLE SHEET FOR SIGNATURES Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____ Checked by : _____

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
TYPICAL SECTIONS	
SCALE : 1" = 5'	DATE : MARCH 2021
Project No. : 502106	SHEET 04 of 28

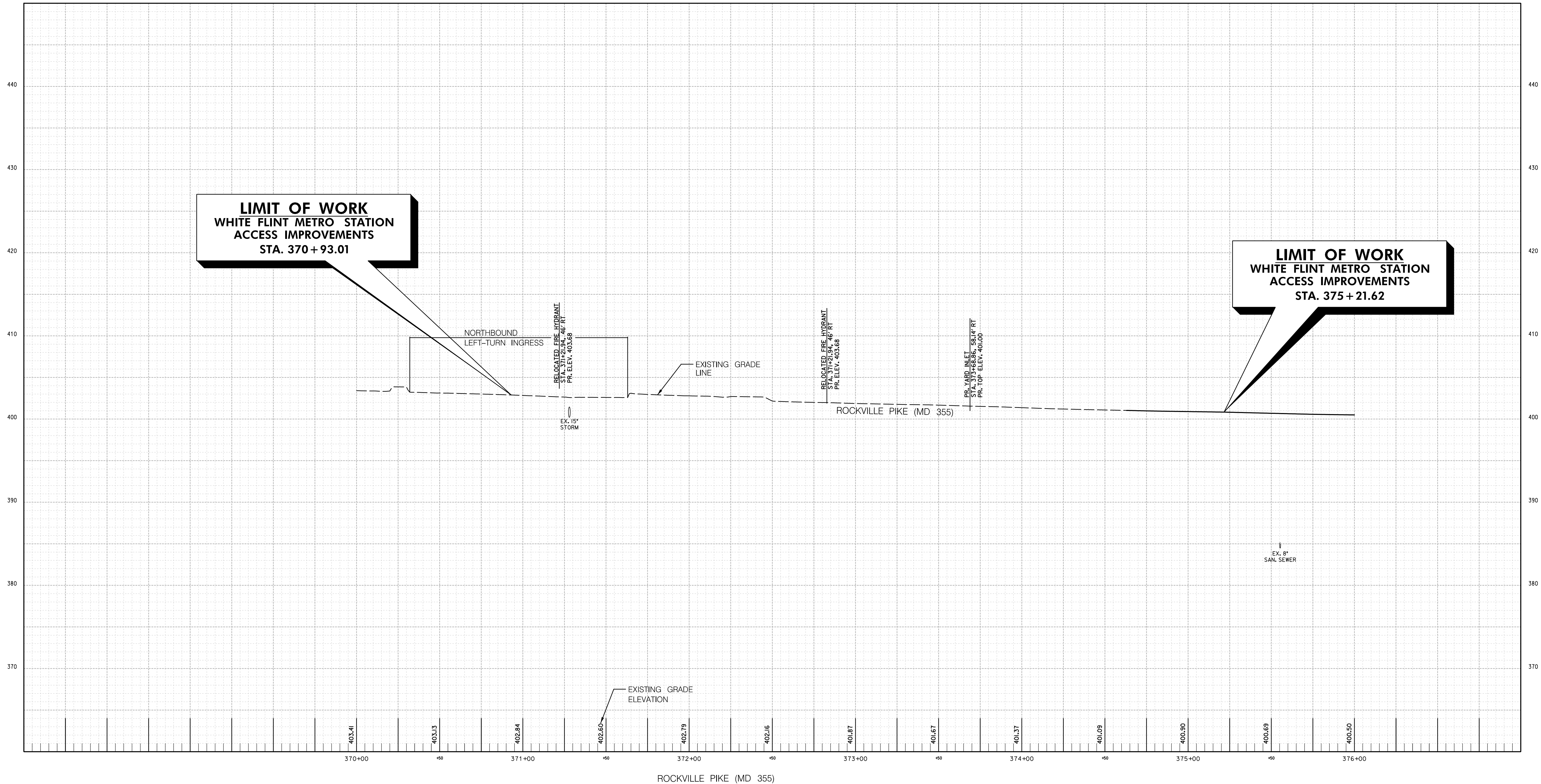
TS-01



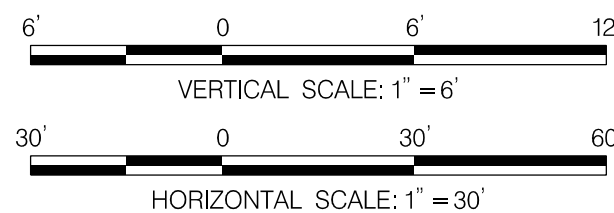




4/14/2021  
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PR-01



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LICENSE NO: 28255 EXPIRATION DATE: 6-30-2022



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES

Chief, Design Section

Date

APPROVED

SEE TITLE SHEET FOR SIGNATURES

Chief, Division of Transportation Engineering

Date

Designed by : \_\_\_\_\_

Drawn by : \_\_\_\_\_

Checked by : \_\_\_\_\_

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

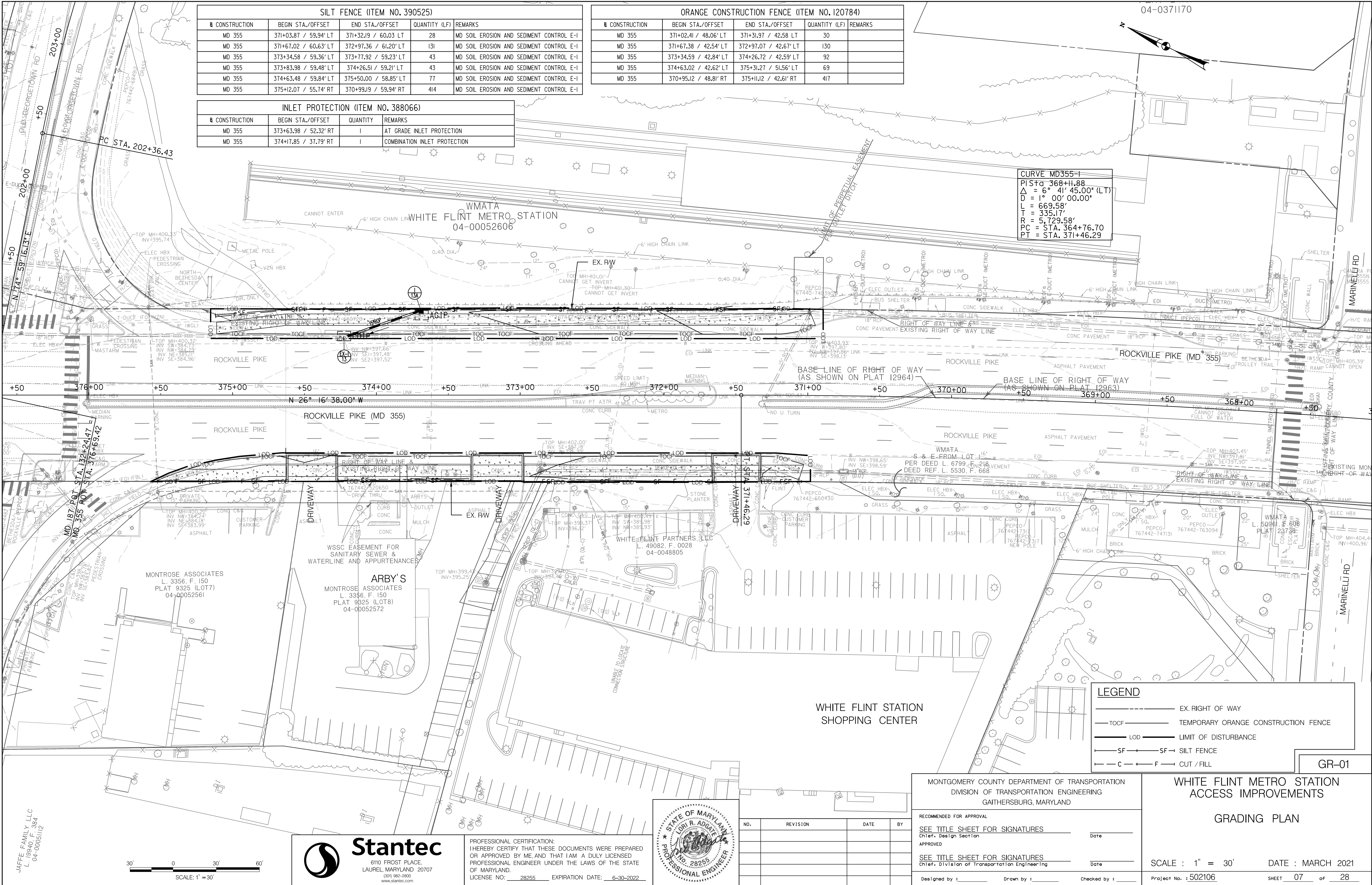
ROADWAY CENTERLINE PROFILE

SCALE : H 1" = 30' ; V 1" = 6' DATE : MARCH 2021

Project No. : 502106

SHEET 06 of 28





SILT FENCE (ITEM NO. 390525)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
MD 355	371+03.87 / 59.94' LT	371+32.19 / 60.03 LT	28	MD SOIL EROSION AND SEDIMENT CONTROL E-I
MD 355	371+67.02 / 60.63' LT	372+97.36 / 61.20' LT	131	MD SOIL EROSION AND SEDIMENT CONTROL E-I
MD 355	373+34.58 / 59.36' LT	373+77.92 / 59.23' LT	43	MD SOIL EROSION AND SEDIMENT CONTROL E-I
MD 355	373+83.98 / 59.48' LT	374+26.51 / 59.21' LT	43	MD SOIL EROSION AND SEDIMENT CONTROL E-I
MD 355	374+63.48 / 59.84' LT	375+50.00 / 58.85' LT	77	MD SOIL EROSION AND SEDIMENT CONTROL E-I
MD 355	375+12.07 / 55.74' RT	370+99.19 / 59.94' RT	414	MD SOIL EROSION AND SEDIMENT CONTROL E-I

INLET PROTECTION (ITEM NO. 388066)			
CONSTRUCTION	BEGIN STA./OFFSET	QUANTITY	REMARKS
MD 355	373+63.98 / 52.32' RT	1	AT GRADE INLET PROTECTION
MD 355	374+17.85 / 37.79' RT	1	COMBINATION INLET PROTECTION

ORANGE CONSTRUCTION FENCE (ITEM NO. 120784)				
CONSTRUCTION	BEGIN STA./OFFSET	END STA./OFFSET	QUANTITY (LF)	REMARKS
MD 355	371+02.41 / 48.06' LT	371+31.97 / 42.58 LT	30	
MD 355	371+67.38 / 42.54' LT	372+97.07 / 42.67' LT	130	
MD 355	373+34.59 / 42.84' LT	374+26.72 / 42.59' LT	92	
MD 355	374+63.02 / 42.62' LT	375+31.27 / 51.56' LT	69	
MD 355	370+95.12 / 48.81' RT	375+11.12 / 42.61' RT	417	

CURVE MD355-1  
PI STA. 368+11.88  
Δ = 6° 41' 45.00" (LT)  
D = 1° 00' 00.00"  
L = 669.58'  
T = 335.17'  
R = 5,729.58'  
PC = STA. 364+76.70  
PT = STA. 371+46.29

LEGEND

EX. RIGHT OF WAY

TOCF

LOD

SF

C

F

EX. RIGHT OF WAY

TEMPORARY ORANGE CONSTRUCTION FENCE

LIMIT OF DISTURBANCE

SILT FENCE

SILT / FILL

GR-01

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

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES  
Chief, Design Section

SEE TITLE SHEET FOR SIGNATURES  
Chief, Division of Transportation Engineering

Designed by :  
Drawn by :  
Checked by :

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

GRADING PLAN

SCALE : 1" = 30'

DATE : MARCH 2021

Project No. : 502106

SHEET 07 of 28

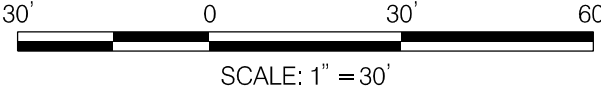
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(301) 982-2900  
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OR APPROVED BY ME AND THAT I AM A DULY LICENSED  
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LICENSE NO.: 28255 EXPIRATION DATE: 6-30-2022



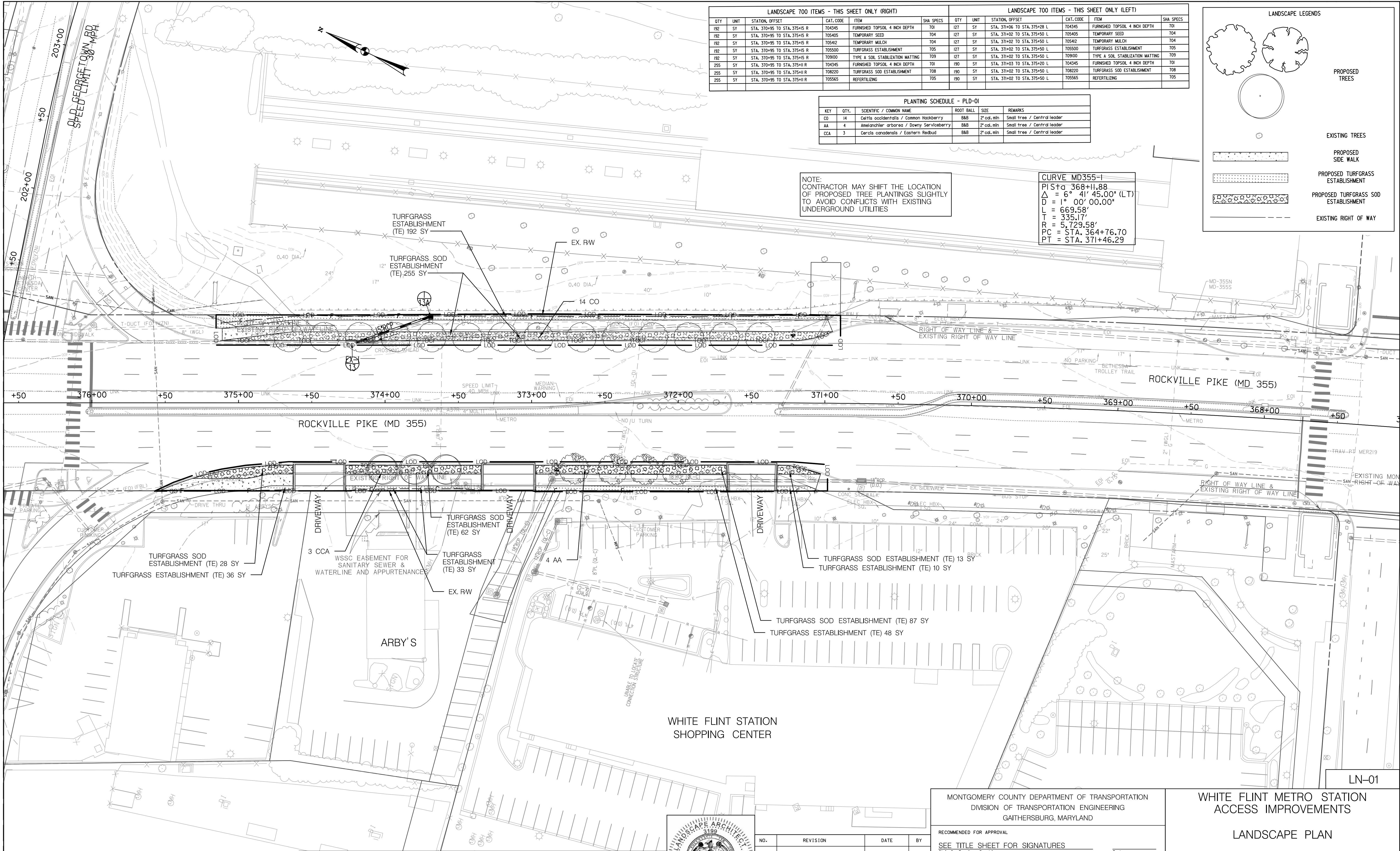
NO.	REVISION	DATE	BY

JAFFE FAMILY LLC  
L 19940, F 384  
04-00051112





4/14/2021  
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LANDSCAPE 700 ITEMS - THIS SHEET ONLY (RIGHT)					
QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
192	SY	STA. 370+95 TO STA. 375+15 R	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
192	SY	STA. 370+95 TO STA. 375+15 R	705405	TEMPORARY SEED	704
192	SY	STA. 370+95 TO STA. 375+15 R	705402	TEMPORARY MULCH	704
192	SY	STA. 370+95 TO STA. 375+15 R	705500	TURFGRASS ESTABLISHMENT	705
192	SY	STA. 370+95 TO STA. 375+15 R	709000	TYPE A SOIL STABILIZATION MATTING	709
255	SY	STA. 370+95 TO STA. 375+15 R	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
255	SY	STA. 370+95 TO STA. 375+15 R	708220	TURFGRASS SOD ESTABLISHMENT	708
255	SY	STA. 370+95 TO STA. 375+15 R	705565	REFERTILIZING	705

LANDSCAPE 700 ITEMS - THIS SHEET ONLY (LEFT)					
QTY	UNIT	STATION, OFFSET	CAT. CODE	ITEM	SHA SPECS
127	SY	STA. 371+06 TO STA. 375+28 L	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
127	SY	STA. 371+06 TO STA. 375+28 L	705405	TEMPORARY SEED	704
127	SY	STA. 371+06 TO STA. 375+28 L	705402	TEMPORARY MULCH	704
127	SY	STA. 371+06 TO STA. 375+28 L	705500	TURFGRASS ESTABLISHMENT	705
127	SY	STA. 371+06 TO STA. 375+28 L	709000	TYPE A SOIL STABILIZATION MATTING	709
190	SY	STA. 371+03 TO STA. 375+20 L	704345	FURNISHED TOPSOIL 4 INCH DEPTH	701
190	SY	STA. 371+03 TO STA. 375+20 L	708220	TURFGRASS SOD ESTABLISHMENT	708
190	SY	STA. 371+03 TO STA. 375+20 L	705565	REFERTILIZING	705

PLANTING SCHEDULE - PLD-01					
KEY	QTY.	SCIENTIFIC / COMMON NAME	ROOT BALL	SIZE	REMARKS
CO	14	Celtis occidentalis / Common Hackberry	88B	2' cd. min	Small tree / Central leader
AA	4	Amenanther arborea / Downy Serviceberry	88B	2' cd. min	Small tree / Central leader
CCA	3	Cercis canadensis / Eastern Redbud	88B	2' cd. min	Small tree / Central leader

LANDSCAPE LEGENDS

PROPOSED TREES

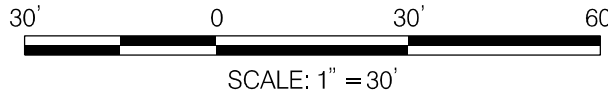
EXISTING TREES

PROPOSED SIDE WALK

PROPOSED TURFGRASS ESTABLISHMENT

PROPOSED TURFGRASS SOD ESTABLISHMENT

EXISTING RIGHT OF WAY



**Stantec**  
6110 FROST PLACE,  
LAUREL, MARYLAND 20707  
(301) 982-2900  
www.stantec.com

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OF MARYLAND.  
LICENSE NO.: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES  
Chief, Design Section  
Date \_\_\_\_\_

APPROVED

SEE TITLE SHEET FOR SIGNATURES  
Chief, Division of Transportation Engineering  
Date \_\_\_\_\_

Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

LANDSCAPE PLAN

SCALE : 1" = 30'      DATE : FEB 2021 021  
Project No. : 502106      SHEET 08 of 28

LN-01



7.1 LANDSCAPE NOTES, LANDSCAPE CONSTRUCTION WITHIN THE RIGHT OF WAY OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) AND WITHIN SHA PROPERTY, EASEMENT AREAS AND LANDS TO BE CONVEYED TO SHA/MTA 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](http://www.roads.maryland.gov/index.aspx?pageid=25)

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.

7.5 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 "SAME 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 REDISTURBANCE 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.

7.8 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.

3. BURENTRITON SUIC MIX (BSM) AND OTHER MATERIALS INSTALLED IN CONJUNCTION WITH SPI 316 - STORMWATER FILTRATION FACILITIES AND SHA STORMWATER DETAILS SHALL BE INSTALLED IN CONFORMANCE WITH THE SHA LANDSCAPE NOTES AND LANDSCAPE PLANS. PLANT MATERIALS AND MULCH SHALL BE INSTALLED IN CONFORMANCE WITH STORMWATER DETAILS, SECTION 710 OR OTHER SHA SPECIFICATIONS.

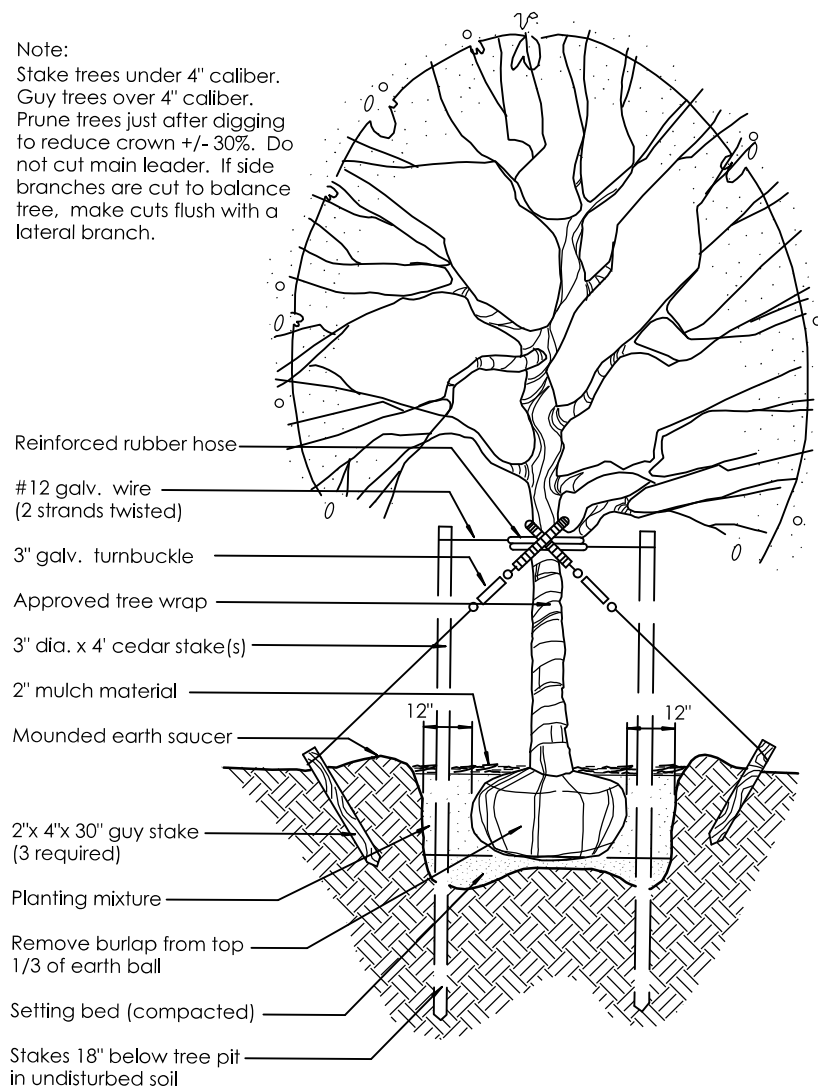
1.10 TURFGRASS ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURBED AREAS, OR WITHIN THE AREAS INDICATED IN THE PLANS, IN CONFORMANCE WITH SECTION 705 OF THE SHA STANDARD SPECIFICATIONS. THE REQUIRED APPLICATION RATE OF 20-16-12 FERTILIZER SHALL BE 200 LBS PER ACRE, AND NO FERTILIZER SHALL BE APPLIED FROM NOVEMBER 15 TO MARCH 1.

1.11 SOIL STABILIZATION MATTING SHALL BE INSTALLED IN CONFORMANCE WITH SECTION 709 OF THE SHA STANDARD SPECIFICATIONS, IN CONJUNCTION WITH TRUFGRASS ESTABLISHMENT PER SECTION 705 OR MEADOW ESTABLISHMENT PER SECTION 707 AS FOLLOWS:

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 BINDR IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT, UNLESS DELINEATED AND NOTED OTHERWISE.

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.

MASTER PLANTING SCHEDULE						
KEY	QTY.	SCIENTIFIC / COMMON NAME	ROOT BALL	SIZE	REMARKS	
CO	14	<i>Celtis occidentalis</i> / Common Hackberry	B&B	2' cal. min	SndI tree / Central leader	
AA	4	<i>Amelanchier arborea</i> / Downy Serviceberry	B&B	2' cal. min	SndI tree / Central leader	
CCA	3	<i>Cercis canadensis</i> / Eastern Redbud	B&B	2' cal. min	SndI tree / Central leader	

[illegible]

## PLANTING DETAIL/DECIDUOUS TREES

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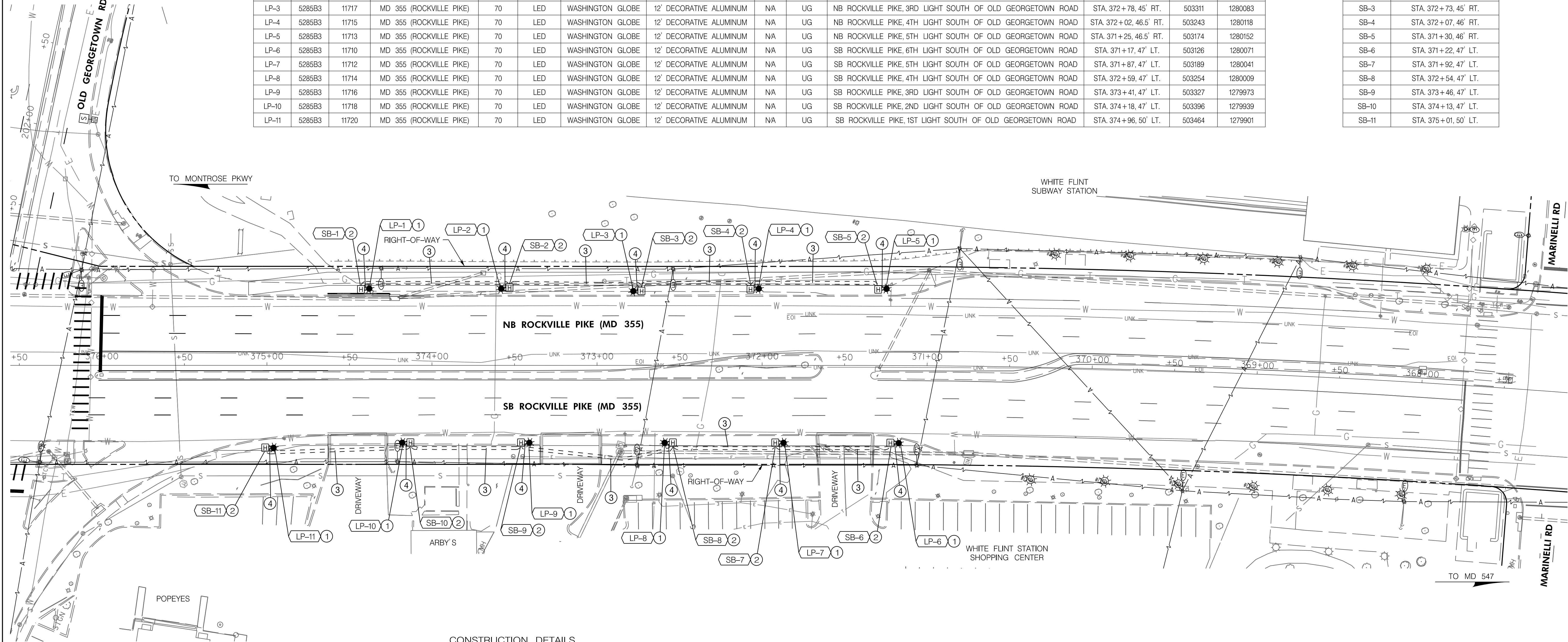
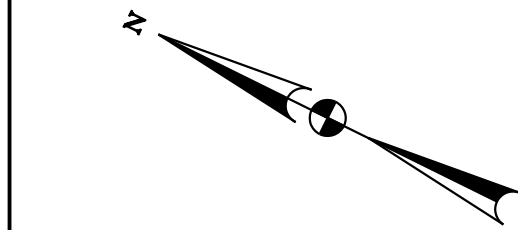
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
<u>SEE TITLE SHEET FOR SIGNATURES</u> Chief, Design Section	_____ Date
APPROVED	
<u>SEE TITLE SHEET FOR SIGNATURES</u> Chief, Division of Transportation Engineering	_____ Date
Designed by : _____	Drawn by : _____ Checked by : _____

Project No. : 502106 SHEET 09 of 2



3/17/2021 X:\4664226\202088.0\TECH\CAD\Drawings\Lighting\Phase 1\PLT-POOL-WFMetro - Phase 1.dgn



PROPOSED PEDESTRIAN LIGHT POLE SCHEDULE

POLE NO.	MAPGRID	MCPoleID	STREET NAME	WATTAGE	LAMP TYPE	LUMINAIRE STYLE	POLE STYLE	ARM	FEED TYPE	ADDRESS	STATION AND OFFSET	NORTHING	EASTING
LP-1	5285B3	11721	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	NB ROCKVILLE PIKE, 1ST LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 374+38, 46.5' RT.	503455	1280013
LP-2	5285B3	11719	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	NB ROCKVILLE PIKE, 2ND LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 373+58, 46.5' RT.	503383	1280049
LP-3	5285B3	11717	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	NB ROCKVILLE PIKE, 3RD LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 372+78, 45' RT.	503311	1280083
LP-4	5285B3	11715	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	NB ROCKVILLE PIKE, 4TH LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 372+02, 46.5' RT.	503243	1280118
LP-5	5285B3	11713	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	NB ROCKVILLE PIKE, 5TH LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 371+25, 46.5' RT.	503174	1280152
LP-6	5285B3	11710	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	SB ROCKVILLE PIKE, 6TH LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 371+17, 47' LT.	503126	1280071
LP-7	5285B3	11712	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	SB ROCKVILLE PIKE, 5TH LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 371+87, 47' LT.	503189	1280041
LP-8	5285B3	11714	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	SB ROCKVILLE PIKE, 4TH LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 372+59, 47' LT.	503254	1280009
LP-9	5285B3	11716	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	SB ROCKVILLE PIKE, 3RD LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 373+41, 47' LT.	503327	1279973
LP-10	5285B3	11718	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	SB ROCKVILLE PIKE, 2ND LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 374+18, 47' LT.	503396	1279939
LP-11	5285B3	11720	MD 355 (ROCKVILLE PIKE)	70	LED	WASHINGTON GLOBE	12' DECORATIVE ALUMINUM	NA	UG	SB ROCKVILLE PIKE, 1ST LIGHT SOUTH OF OLD GEORGETOWN ROAD	STA. 374+96, 50' LT.	503464	1279901

PROPOSED SPLICE BOX SCHEDULE

SB NO.	STATION AND OFFSET
SB-1	STA. 374+43, 46' RT.
SB-2	STA. 373+53, 47' RT.
SB-3	STA. 372+73, 45' RT.
SB-4	STA. 372+07, 46' RT.
SB-5	STA. 371+30, 46' RT.
SB-6	STA. 371+22, 47' LT.
SB-7	STA. 371+92, 47' LT.
SB-8	STA. 372+54, 47' LT.
SB-9	STA. 373+46, 47' LT.
SB-10	STA. 374+13, 47' LT.
SB-11	STA. 375+01, 50' LT.

CONSTRUCTION DETAILS

- FURNISH AND INSTALL CONCRETE FOUNDATION, 12-FOOT DECORATIVE RESIDENTIAL LAMP POST WITH 70 WATT LED DECORATIVE WASHINGTON GLOBE STYLE LUMINAIRE, LAMP, PHOTOCELL AND GROUND ROD. (SEE DETAILS ON LT-02).
- FURNISH AND INSTALL (17 IN. X 24 IN. X 24 IN.) POLYMER CONCRETE SPLICE BOX. (SEE DETAIL ON LT-02).
- FURNISH AND INSTALL (2-WAY) 4 IN. SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT - TRENCHED. (SEE DETAIL ON LT-02).
- FURNISH AND INSTALL 2 IN. SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT - TRENCHED.

GEOMETRICS LEGEND

===== PROPOSED GEOMETRY ===== EXISTING GEOMETRY

UTILITY LEGEND

— T — TELEPHONE CABLES — W — WATER MAIN  
— A — AERIAL CABLES — G — GAS MAIN  
— E — ELECTRIC CABLES — SS — SEWER MAIN

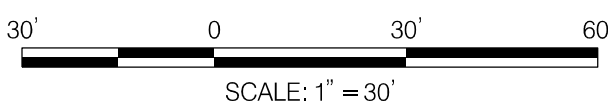
SYMBOL LEGEND

===== SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT (REFER TO CONSTRUCTION DETAILS FOR SIZE)  
\* - PROPOSED DECORATIVE STREET LIGHT POLE AND LUMINAIRE  
[ ] - PROPOSED SPLICE BOX  
[ ] - EXISTING STREET LIGHT TO REMAIN  
[ ] - EXISTING UTILITY COMPANY LEASED LIGHT TO REMAIN  
[ ] - EXISTING DECORATIVE STREET LIGHT TO REMAIN  
[SB-#] - PROP. SPLICE BOX ID NO.  
[LP-#] - PROP. LIGHT POLE ID NO.

Mead & Hunt

MEAD & HUNT, INC.  
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COLUMBIA, MD 21046  
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LICENSE NO.: 27451 EXPIRATION DATE: 1/23/2022



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

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Chief, Design Section

APPROVED

SEE TITLE SHEET FOR SIGNATURES

Chief, Division of Transportation Engineering

Designed by :

Drawn by :

Checked by :

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

LIGHTING PLAN

SCALE : 1" = 30'

DATE : MAR 2021

Project No. : 502106

SHEET 10 of 28

LT-01



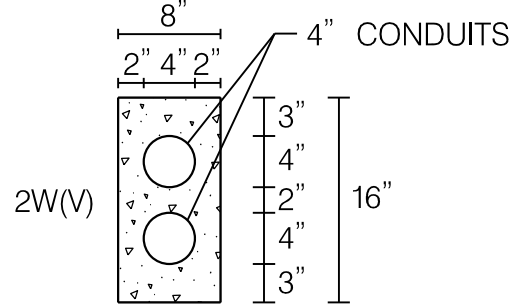
3/17/2021 X:\4664226\202088\01\TECH\CAD\drawings\Lighting\Phase 1\PLT-SOOL-WFMetro - Phase 1.dgn

GENERAL NOTES

- STREET LIGHT BASES AND LOCATIONS TO BE APPROVED BY MONTGOMERY COUNTY.
- ALL MATERIALS USED ARE TO CONFORM TO PEPCO SPECIFICATIONS.
- DAMAGE TO ANY UTILITIES OCCURRED BY THE CONTRACTOR DURING THE INSTALLATION OF LIGHTING FACILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND ALL LOCAL CODES AND REGULATIONS.
- ALL MATERIAL, ELECTRICAL DEVICES AND EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AND SHALL BE UL APPROVED AND LABELED UNLESS OTHERWISE SPECIFIED.
- ALL CONDUIT INSTALLATIONS UNDER SIDEWALKS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE NEW SIDEWALKS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A POLYMER CONCRETE SPLICE BOX ADJACENT TO EACH STREETLIGHT (LOCATION AND SIZE AS SHOWN ON PLANS). SPLICE BOXES SHALL BE INSTALLED PARALLEL TO THE PATHWAY. THE SPLICE BOXES SHALL BE AS APPROVED BY PEPCO.

STREETLIGHT CONDUIT INSTALLATION CHECKLIST

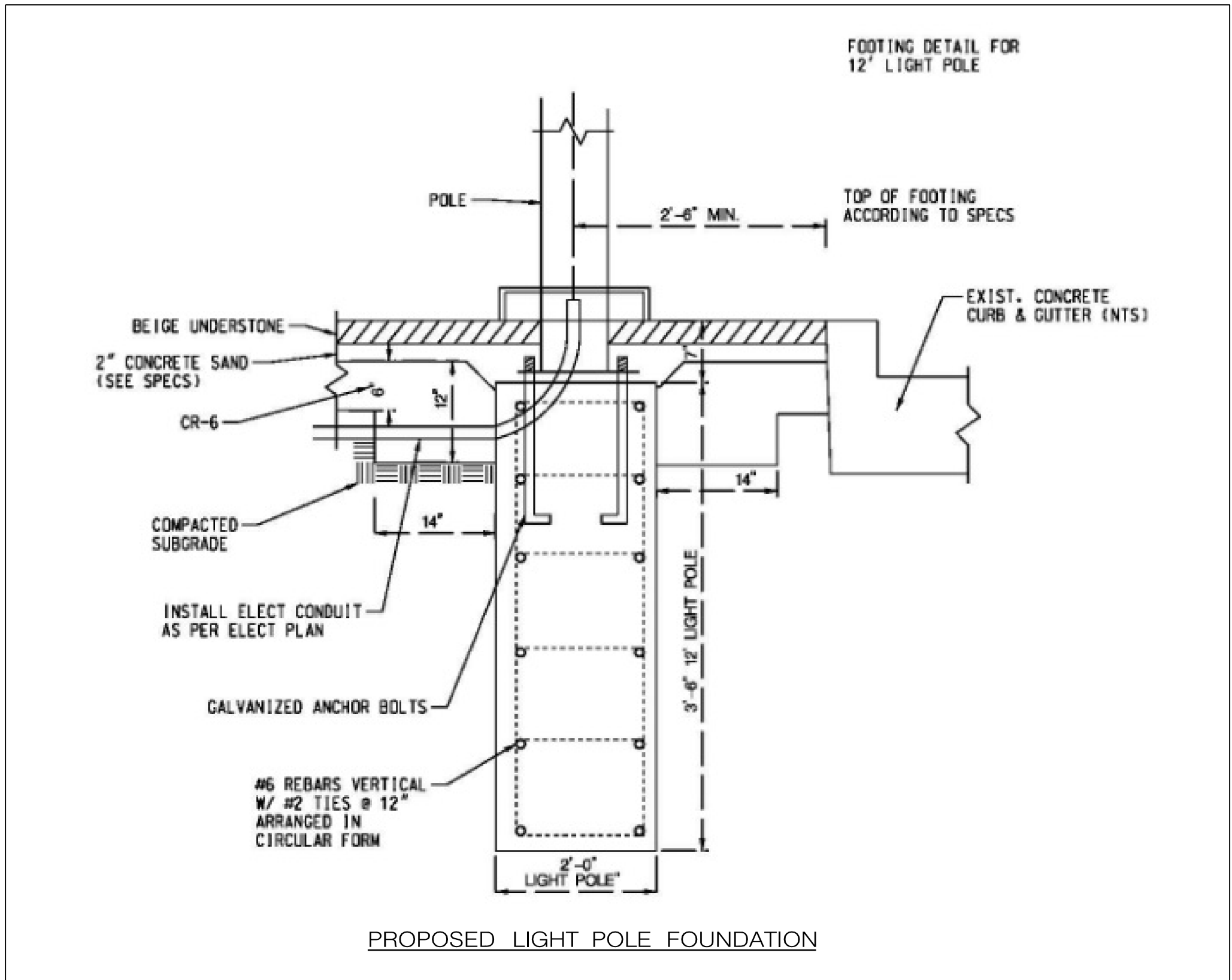
- 2-WAY FOUR INCH (4"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING EACH SPLICEBOX IN A CONTINUOUS RUN.
- TWO INCH (2"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING THE SPLICEBOX TO THE STREET LIGHT FOOTING.
- CONTRACTOR TO PROVIDE AND INSTALL PHOTOCELLS FOR EACH STREET LIGHT LUMINAIRE.
- STREETLIGHT AND POST ERECTED BY THE CONTRACTOR ARE TO BE WIRED WITH #10 AWG (MIN) COPPER WITH A THREE FOOT MINIMUM LOOP OF SLACK IN THE SPLICEBOX FOR ATTACHMENT BY PEPCO.
- STREETLIGHT POSTS ARE TO HAVE A GROUNDING LUG ATTACHED TO THE BASE OF THE POST WITH A MINIMUM THREE FOOT LOOP OF SLACK IN THE SPLICEBOX OF #6 AWG BARE COPPER WIRE ATTACHED.
- ALL SWEEPBENDS TO BE MINIMUM OF 24 INCHES RADIUS.
- 14" NYLON PULL-LINES IS TO BE INSTALLED IN EACH CONDUIT DUCT.
- CONTRACTOR TO INSTALL MARKING TAPE ONE FOOT (1") ABOVE EACH CONDUIT RUN.
- NO MORE THAN 180 DEGREES OF BENDS IN A CONDUIT RUN.
- CONDUIT IS TO HAVE THREE (3) FEET (MINIMUM) OF COVER OVER IT.
- INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO PEPCO INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT. FAILURE TO OBTAIN SUCH INSPECTION WILL RESULT IN THE UNCOVERING OF FACILITIES AT THE CONTRACTOR'S EXPENSE. CALL (202) 388-2137 7:00 TO 9:00 AM OR 3:00 TO 4:00 PM TWO WORKING DAYS IN ADVANCE TO ARRANGE INSPECTION.
- ALL STREETLIGHT EQUIPMENT AND MATERIALS SHALL BE SUBMITTED TO MONTGOMERY COUNTY FOR APPROVAL PRIOR TO BEING INSTALLED ON THE PROJECT. SEE SPECIAL PROVISIONS FOR STREETLIGHT SPECIFICATIONS.
- ALL STREETLIGHTS SHALL BE INSTALLED 2'-6" BEHIND THE FACE OF THE CURB (EXCEPT AS NOTED ON PLANS).
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS / CATALOG CUTS FOR ALL LIGHTING EQUIPMENT TO MONTGOMERY COUNTY TRAFFIC OPERATIONS DIVISION FOR APPROVAL PRIOR TO INSTALLATION.



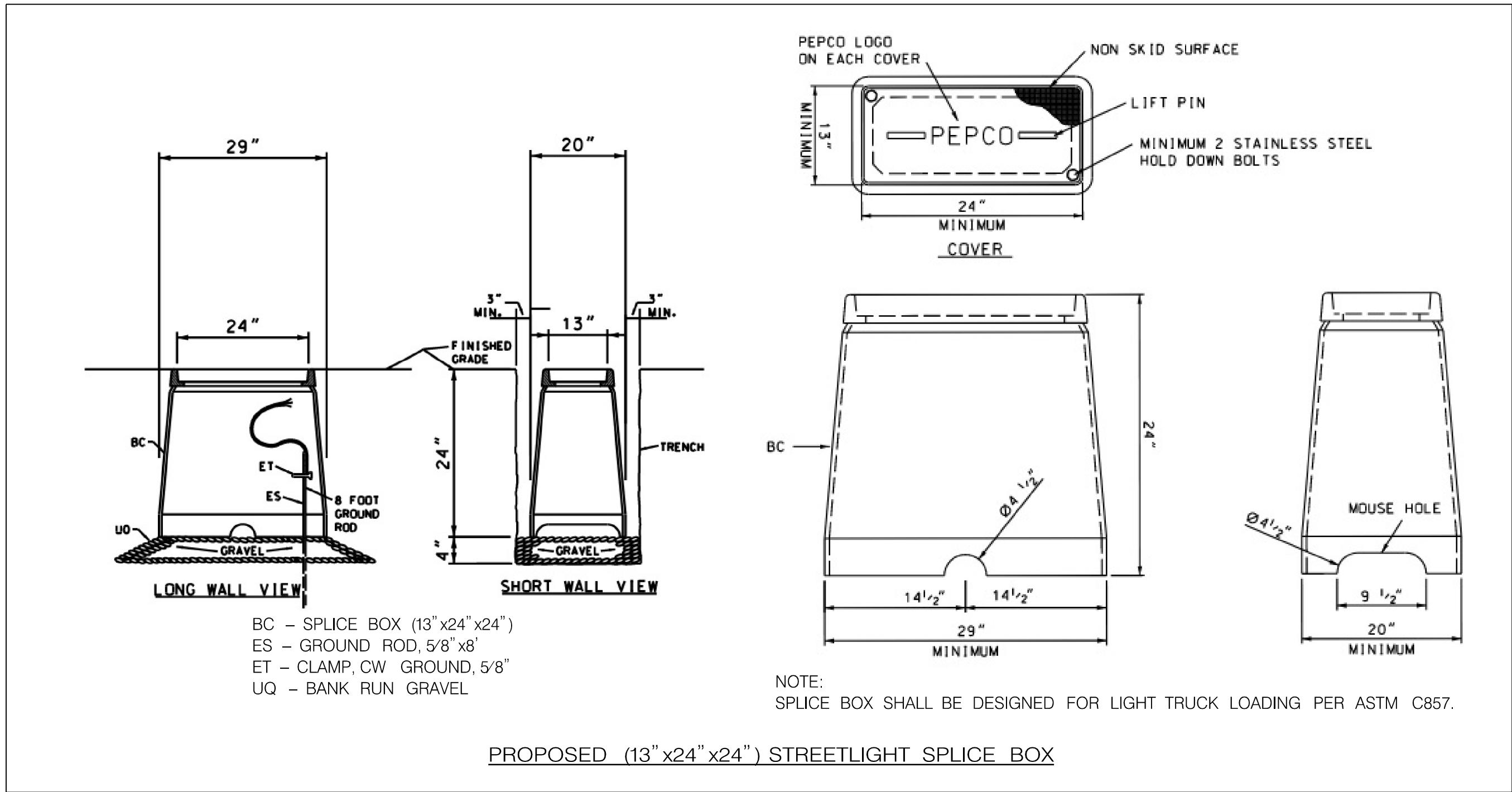
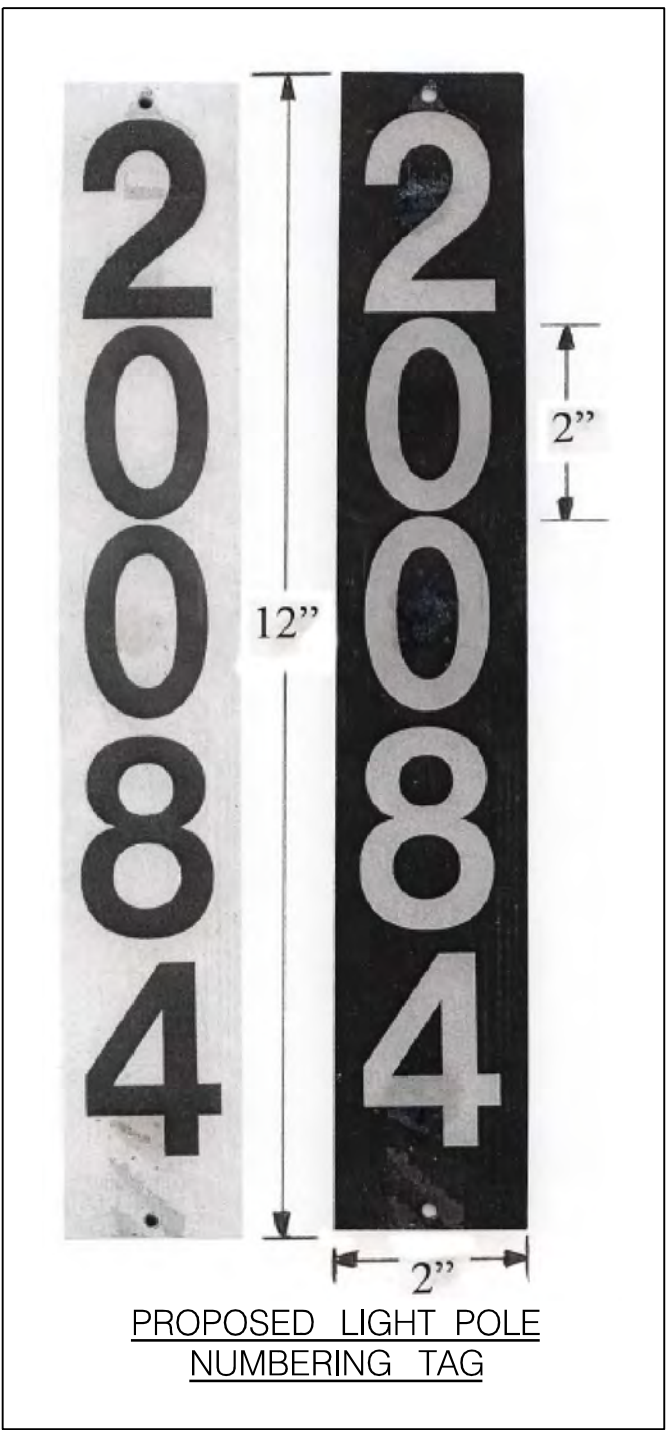
CONCRETE ENCASED CONDUIT DUCT LINE CONFIGURATION

NOTES:

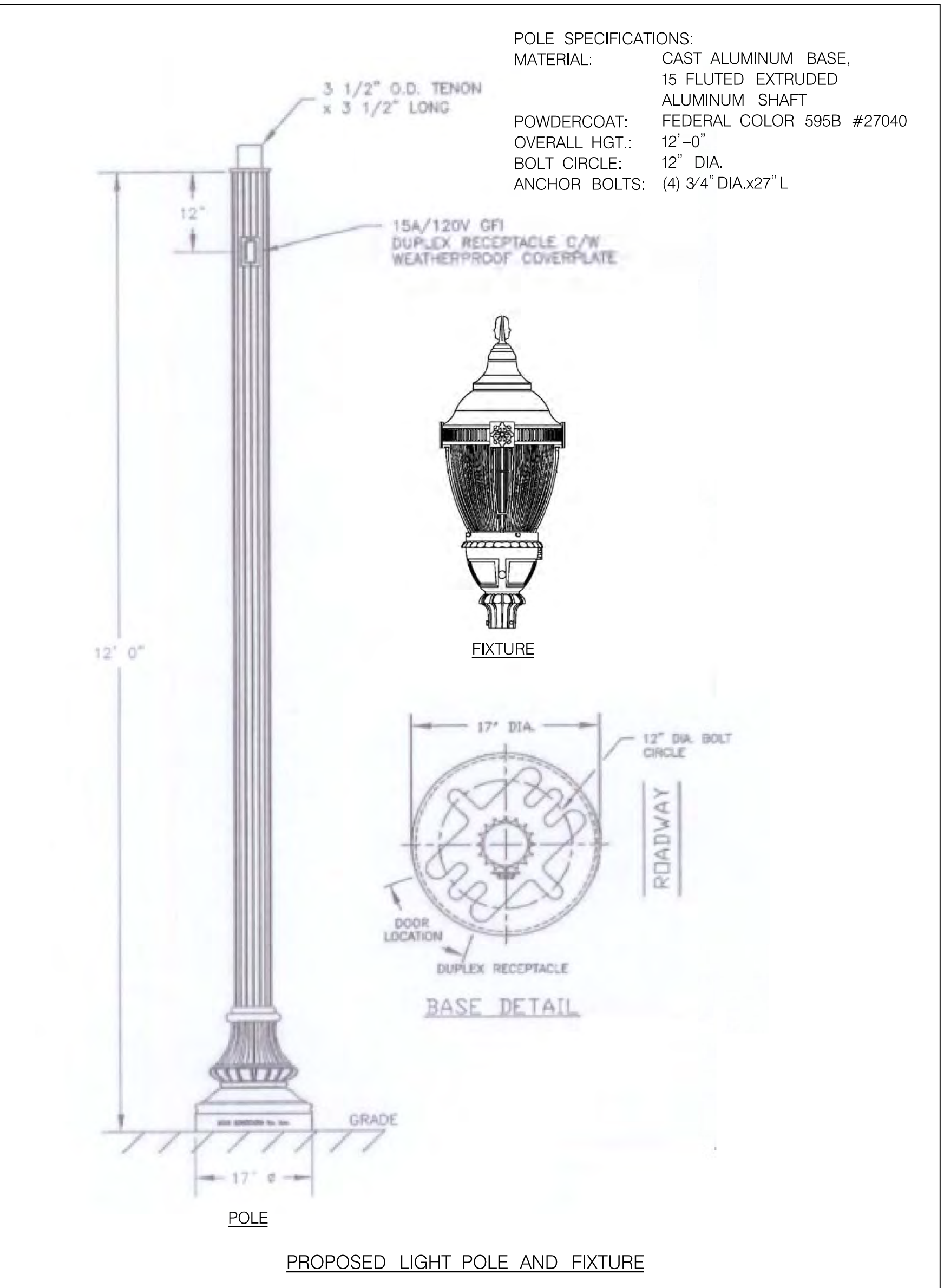
- THE CONTRACTOR SHALL TERMINATE THE CONDUITS WITH COUPLINGS AND PLUGS.
- ONLY STANDARD WEIGHT READY MIX CONCRETE WILL BE APPROVED FOR ENCASEMENT.
- NO METALLIC MATERIALS (REBARS, HOLD DOWN WIRES, ETC.) SHALL BE PERMITTED IN SPACES BETWEEN LOW VOLTAGE DUCTS.
- PEPCO CONDUIT INSPECTOR SHOULD BE CONTACTED 48 HOURS (2 WORK DAYS) PRIOR TO ENCASEMENT OF CONDUIT FOR SCHEDULING TRANSMISSION AND DISTRIBUTION CONSTRUCTION INSPECTION AND APPROVAL.



PROPOSED LIGHT POLE FOUNDATION



PROPOSED (13"x24"x24") STREETLIGHT SPLICE BOX



PROPOSED LIGHT POLE AND FIXTURE

LT-02

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

LIGHTING NOTES AND DETAILS

SCALE : NONE DATE : MAR 2021

Project No. : 502106 SHEET 11 of 28

**Mead & Hunt**  
MEAD & HUNT, INC.  
7055 SAMUEL MORSE DRIVE  
SUITE 100  
COLUMBIA, MD 21046  
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRANSPORTATION ENGINEERING  
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

SEE TITLE SHEET FOR SIGNATURES  
Chief, Design Section  
APPROVED

SEE TITLE SHEET FOR SIGNATURES  
Chief, Division of Transportation Engineering

Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_



Monday, February 22, 2021 AT 11:27 AM  
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TEMPORARY TRAFFIC CONTROL REQUIREMENTS

1. THE PERMITTEE SHALL REFER TO THE ATTACHED TEMPORARY TRAFFIC CONTROL PLAN (TTCP) DRAWINGS. WORK ZONE SITUATIONS WHICH ARE NOT ADDRESSED IN THE ATTACHED TTCP SHALL CONFORM TO THE GUIDELINES SET FORTH IN SECTION 6 OF THE 2011 "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MDMUTCD), MOST RECENT EDITION.
2. THE PERMITTEE MUST HAVE A CERTIFIED TRAFFIC CONTROL MANAGER ON SITE DURING ALL PHASES OF INSPECTION AND CONSTRUCTION AT ALL TIMES.
3. EACH PHASE OF INSPECTION AND CONSTRUCTION, INCLUDING THE FOLLOW UP RESTORATION OPERATIONS, SHALL BE PROVIDED WITH APPROPRIATE WORK ZONE TRAFFIC CONTROLS.
4. ANY WORK WITHIN THE TRAVELED PORTION OF ROADWAYS SHALL BE RESTRICTED TO THE HOURS LISTED IN THE SPECIFICATIONS, MONDAY THROUGH FRIDAY. WORK ON HOLIDAYS AND WEEKENDS SHALL NOT OCCUR UNLESS AN EXEMPTION IS GRANTED IN WRITING BY THE COUNTY'S INSPECTOR.
5. CONSTRUCTION ACTIVITY, LOADING OR UNLOADING OF EQUIPMENT SHALL NOT BLOCK ANY TRAFFIC LANE OTHER THAN THOSE DELINEATED WITHIN THE WORK ZONE.
6. EXCLUSIVE OF EMERGENCY WORK, THE PERMITTEE SHALL CONTACT OCCUPANTS OF ALL ADJOINING PROPERTIES AND INFORM THEM OF THE SCOPE AND THE TIMING OF CONSTRUCTION. A MINIMUM OF 24 HOURS NOTIFICATION SHALL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY ON THE SITE.
7. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS UNLESS PERMISSION FOR CLOSURE IS GRANTED BY THE PROPERTY OWNER/MANAGER. HOWEVER, ACCESSIBILITY FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
8. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE 2011 MDMUTCD. ALL SIGNS, TRAFFIC DRUMS AND CONES SHALL BE FULLY REFLECTORIZED WITH HIGH INTENSITY, REFLECTIVE SHEETING AS PER THE MUTCD. TEMPORARY SIGNS SHALL BE FLUORESCENT ORANGE.
9. ALL WARNING SIGNS, UNLESS OTHERWISE SPECIFIED, SHALL BE A MINIMUM OF 48" X 48", BLACK SYMBOL OR LEGEND ON FLUORESCENT ORANGE BACKGROUND AND DIAMOND SHAPED. ALL WARNING SIGNS NOT APPLICABLE TO THE ACTUAL SITUATION SHALL BE REMOVED OR COVERED DURING NON-APPLICABLE PERIODS. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF ONE (1) FOOT ABOVE THE LEVEL OF THE ROADWAY, WITH HIGHER MOUNTING HEIGHTS DESIRABLE.
10. IF ANY TEMPORARY TRAFFIC CONTROL SIGNS ARE TO BE PLACED ALONG A MDT SHA ROADWAY OR WITHIN THE LIMITS OF AN INCORPORATED AREA, THE PERMITTEE SHALL NOTIFY THE APPROPRIATE AGENCY OF SIGNAGE TO BE INSTALLED.
11. DURING NIGHTTIME OPERATIONS REFLECTORIZED TRAFFIC DRUMS SHALL BE USED. HOWEVER, FOR EMERGENCY WORK ACTIVITIES WHERE TRAFFIC DRUMS ARE NOT AVAILABLE, REFLECTORIZED TRAFFIC CONES THAT ARE A MINIMUM OF TWENTY EIGHT (28) INCHES IN HEIGHT AND HAVING SIX (6) INCH AND FOUR (4) INCH REFLECTIVE COLLARS WITHIN THE TOP SIXTEEN (16) INCHES OF THE CONE MAY BE USED. ALL WORK AREAS LEFT UNATTENDED AT NIGHT SHALL BE DELINEATED WITH REFLECTORIZED TRAFFIC DRUMS.
12. THE PERMITEE SHALL OBTAIN A TEMPORARY NOISE WAIVER FROM THE MONTGOMERY COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR ALL NIGHTTIME CONSTRUCTION ACTIVITIES.

SEQUENCE OF CONSTRUCTION FOR MAINTENANCE OF TRAFFIC

PHASE 1

1. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR PHASE 1.
2. CONSTRUCT SOUTHBOUND MD 355.

PHASE 2

1. INSTALL MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR PHASE 2.
2. CONSTRUCT NORTHBOUND MD 355.

INSPECTOR AUTHORITY

1. THE COUNTY'S DEPARTMENT OF PERMITTING SERVICES (DPS) INSPECTOR HAS THE AUTHORITY TO MODIFY THE TTCP AS DEEMED NECESSARY. THE INSPECTOR HAS THE AUTHORITY TO ORDER THE PERMITTEE TO STOP WORK AND VACATE THE PUBLIC RIGHT-OF-WAY IF THE TTCP IS NOT COMPLIED WITH.
2. THE IMPLEMENTATION DATE AND CONTINUANCE OF WORK ACTIVITIES MAY BE ALTERED AT THE DISCRETION OF THE COUNTY'S INSPECTOR IN THE EVENT OF CONFLICTS WITH PREVIOUSLY APPROVED OR EMERGENCY ACTIVITIES.

MISCELLANEOUS

1. THE PERMITTEE WILL BE SOLELY RESPONSIBLE FOR ALL ACCIDENTS AND/OR DAMAGE TO PERSONS AND/OR PROPERTY DAMAGE RESULTING FROM HIS OPERATIONS.
2. HAZARDOUS MATERIALS SHALL NOT BE STORED WITHIN PUBLIC RIGHT-OF-WAY. NO MATERIALS OR EQUIPMENT SHALL BE STORED ON THE ROADWAY SURFACE OR SIDEWALK DURING NON-WORK PERIODS. ALL STORED MATERIALS AND EQUIPMENT SHALL BE SET BACK AT LEAST SIX (6) FEET BEHIND THE CURB ALONG A CLOSED SECTION ROADWAY AND AT LEAST TWELVE (12) FEET FROM THE EDGE OF AN OPEN SECTION ROADWAY.
3. ALL TEMPORARY TRAFFIC CONTROL (TTC) DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME, TTC DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
4. AT THE COMPLETION OF WORK ACTIVITIES, CONDITIONS WITHIN THE PUBLIC SPACE SHALL BE FULLY RESTORED TO THOSE THAT EXISTED PRIOR TO THE WORK ACTIVITY.

CONTACT INFORMATION

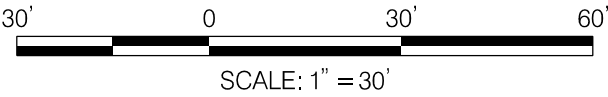
1. THE CONTRACTOR SHALL ARRANGE AND HOST A PRE-PHASE TRAFFIC SWITCH MEETING AT LEAST TWO WEEKS PRIOR TO SWITCHING TRAFFIC. THE FOLLOWING OFFICES SHALL BE NOTIFIED OF THIS MEETING AND OF THE IMPENDING TRAFFIC SWITCH:

- MONTGOMERY COUNTY DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS AT 240-777-6000
- MONTGOMERY COUNTY TRANSPORTATION SYSTEMS ENGINEERING TEAM AT 240-777-2100
- MONTGOMERY COUNTY TRANSIT AT 240-777-5800
- MONTGOMERY COUNTY PUBLIC SCHOOLS, LOCAL DEPOT MANAGER
- MONTGOMERY COUNTY FIRE AND RESCUE, LOCAL FIRE DEPARTMENT CAPTAIN
- MONTGOMERY COUNTY POLICE, LOCAL TRAFFIC SERGEANT
- MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES, PERMIT INSPECTION SECTION AT 240-777-6300

2. PRIOR TO ROAD CLOSURES, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING OFFICES A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE:

- MONTGOMERY COUNTY DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS AT 240-777-6000
- MONTGOMERY COUNTY EMERGENCY OPERATIONS CENTER AT 240-777-0751
- MONTGOMERY COUNTY POLICE, LOCAL TRAFFIC SERGEANT
- MONTGOMERY COUNTY TRANSPORTATION MANAGEMENT CENTER AT 240-777-2100
- MONTGOMERY COUNTY FIRE AND RESCUE, LOCAL FIRE DEPARTMENT CAPTAIN
- MONTGOMERY COUNTY PUBLIC SCHOOLS, LOCAL DEPOT MANAGER

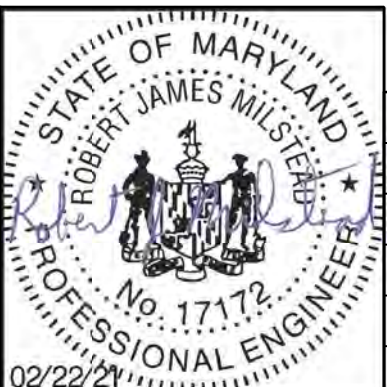
3. FIELD ASSISTANCE BY THE MCDOT, DIVISION OF TRAFFIC ENGINEERING AND OPERATIONS IS AVAILABLE UPON REQUEST. CONTACT TRAFFIC ENGINEERING & OPERATIONS SECTION AT 240-777-6000.





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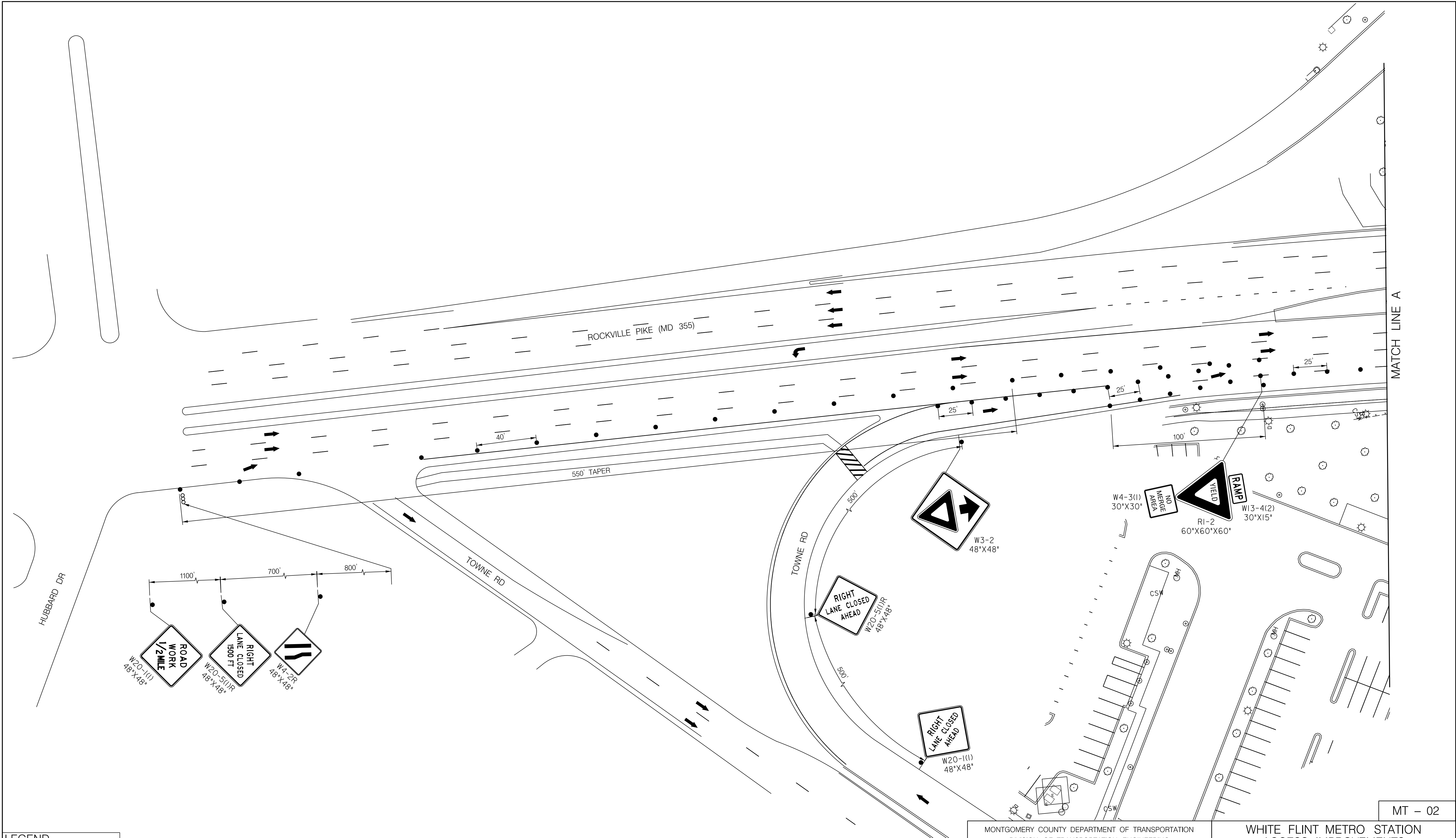
NO.	REVISION	DATE	BY

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APPROVED	
SEE TITLE SHEET FOR SIGNATURES <small>Chief, Division of Transportation Engineering</small>	Date _____
Designed by : <u>RJM</u>	Drawn by : <u>WH</u> Checked by : _____

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
MAINTENANCE OF TRAFFIC PLAN GENERAL NOTES	
SCALE : 1" = 30'	DATE : FEB 2021
Project No. : <u>502106</u>	SHEET <u>12</u> of <u>28</u>

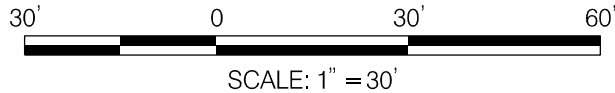


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**LEGEND**

- DRUMS
- SIGN SUPPORT
- ↑ DIRECTION OF TRAFFIC
- WORK SITE
- ⇄ ARROW PANEL
- ▬ TYPE III BARRICADE



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WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN  
PHASE 1

SCALE : 1" = 30' DATE : FEB 2021

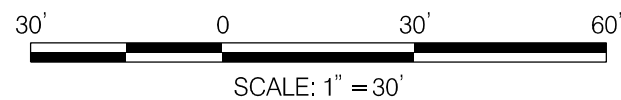
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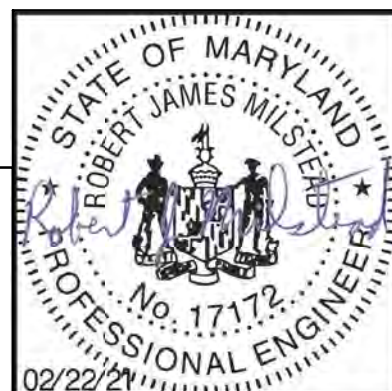
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- DRUMS
- SIGN SUPPORT
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- ∞ ARROW PANEL
- ▬ TYPE III BARRICADE



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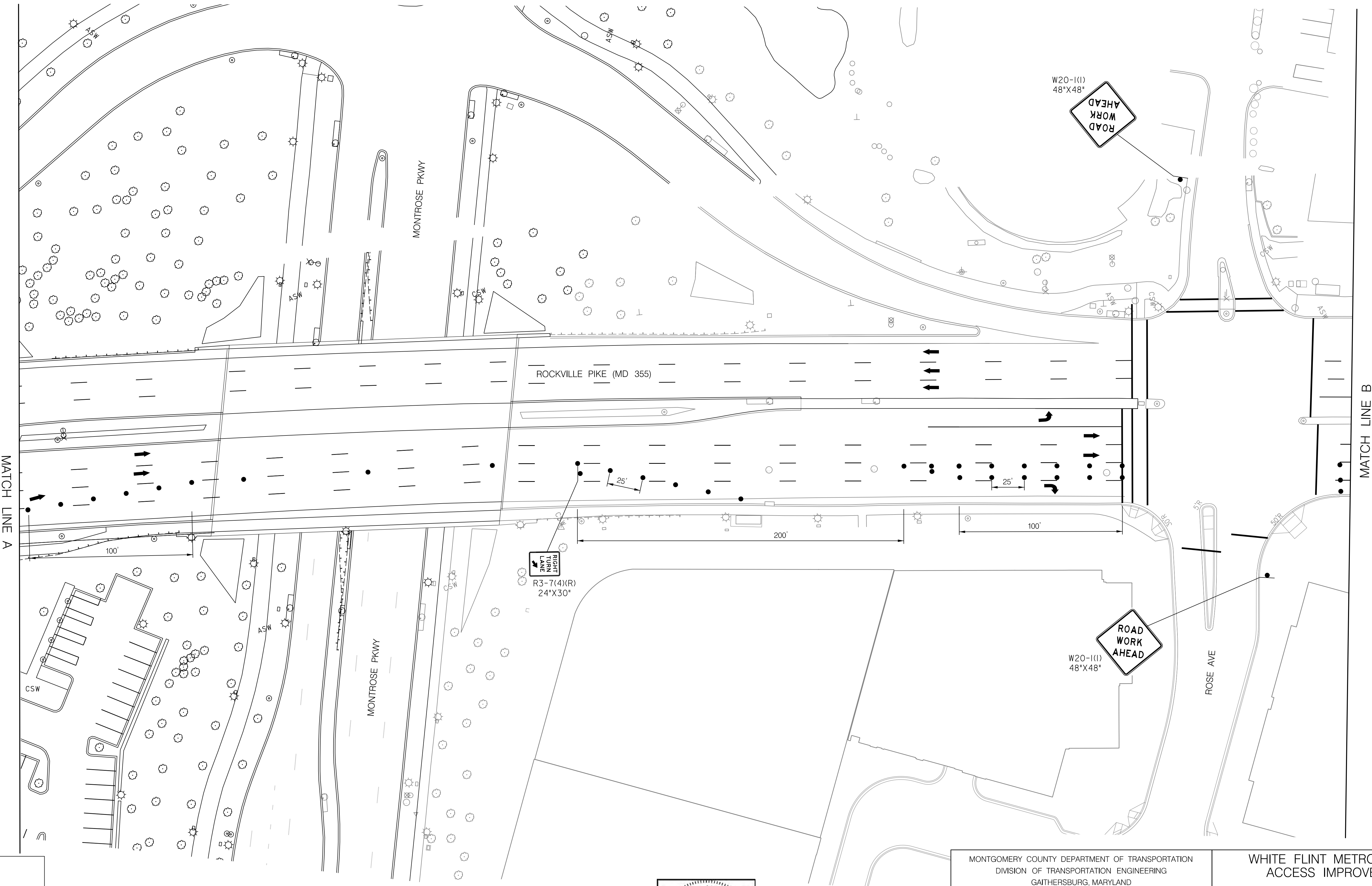
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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
MAINTENANCE OF TRAFFIC PLAN PHASE 1	
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Project No. : 502106	SHEET 14 of 28



MT - 03



Monday, February 22, 2021 AT 11:37 AM  
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LEGEND

●

DRUMS

●

SIGN SUPPORT

↑

DIRECTION OF TRAFFIC

▬

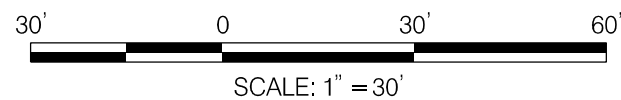
WORK SITE

∞

ARROW PANEL

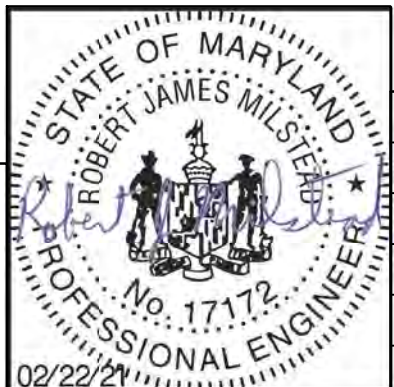
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TYPE III BARRICADE



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WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN

PHASE 1

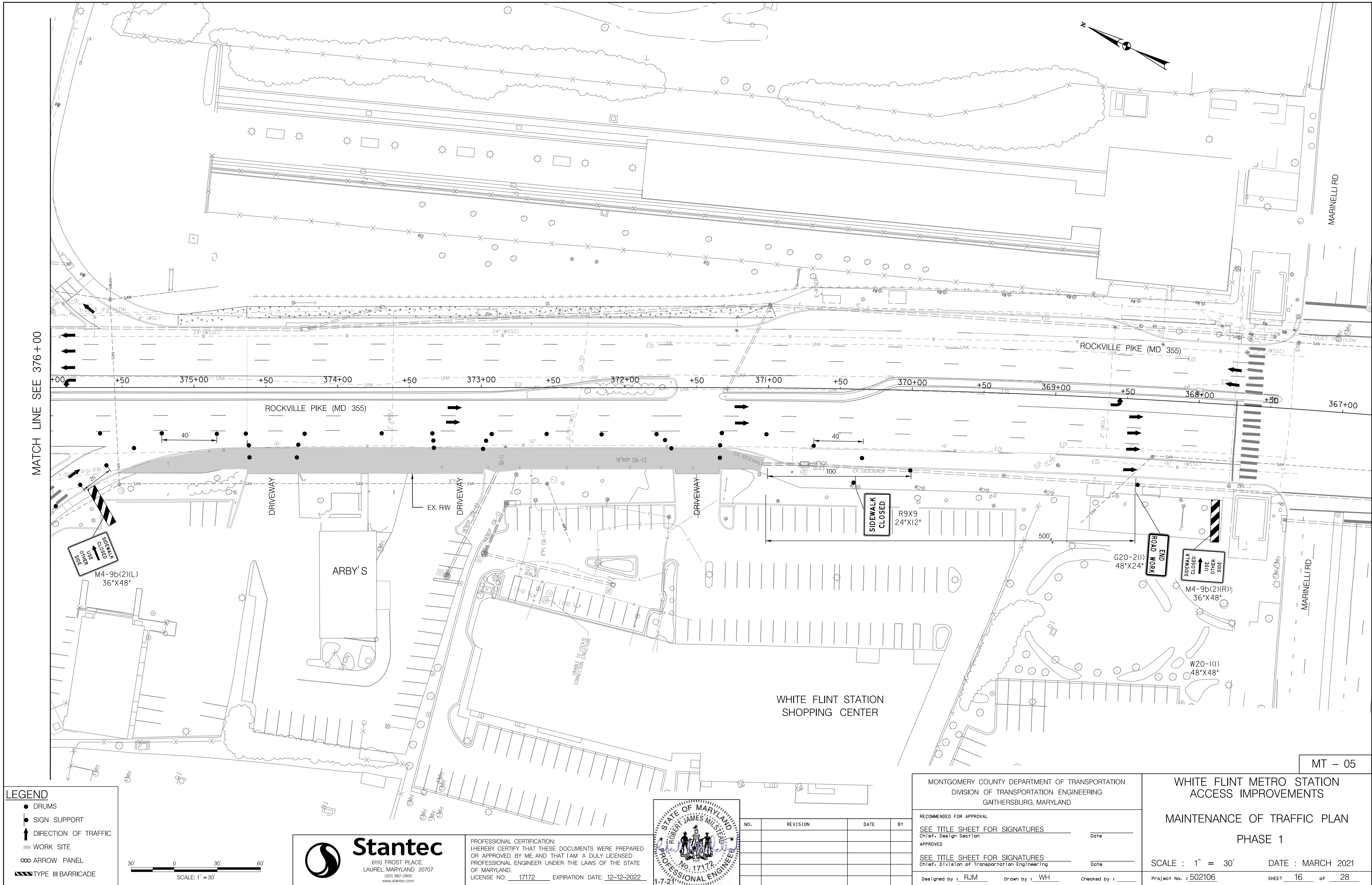
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Project No. : 502106      SHEET 15 of 28

MT – 04

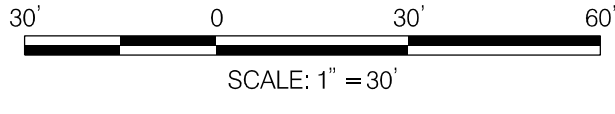


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MAINTENANCE OF TRAFFIC PLAN  
PHASE 1

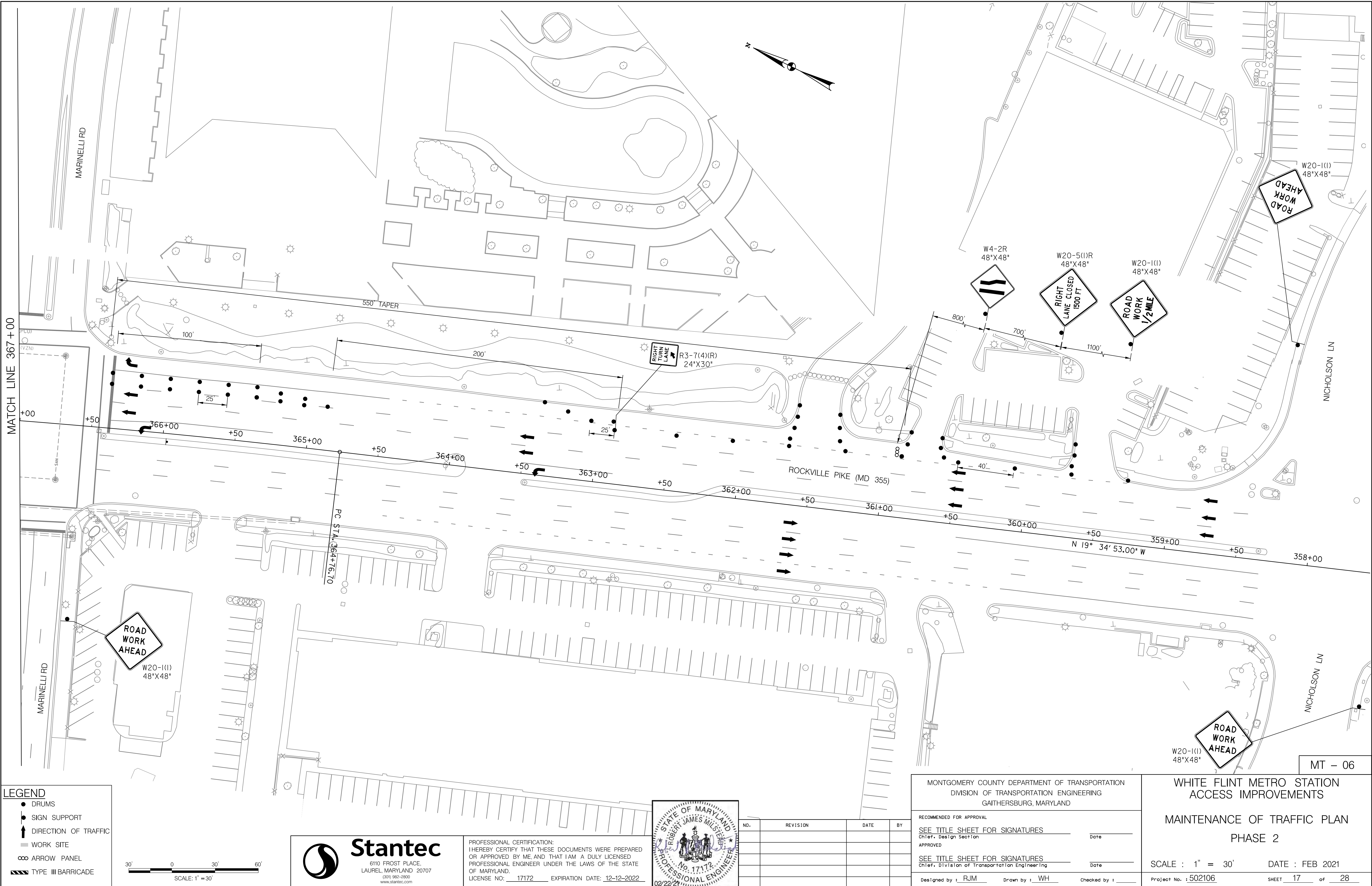
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Project No. : 502106 SHEET 16 of 28

MT - 05

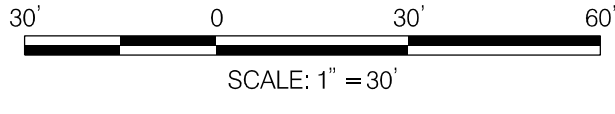


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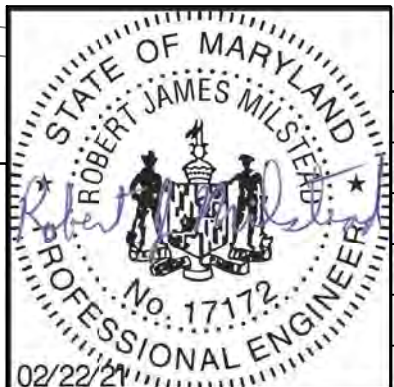
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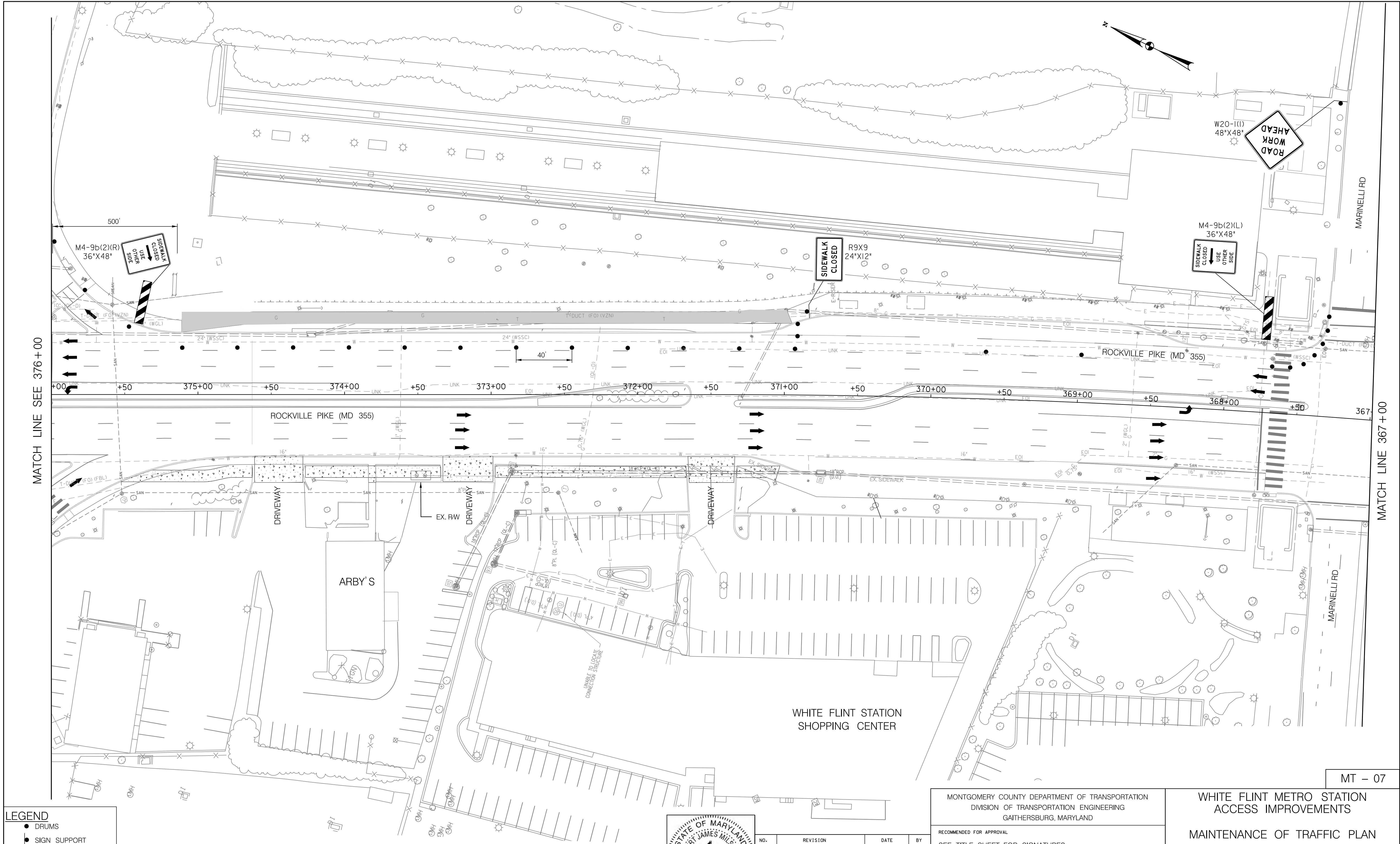
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MAINTENANCE OF TRAFFIC PLAN PHASE 2	
SCALE : 1" = 30'	DATE : FEB 2021
Project No. : 502106	SHEET 17 of 28

MT - 06

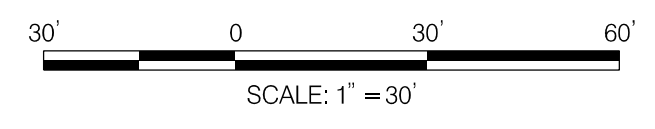


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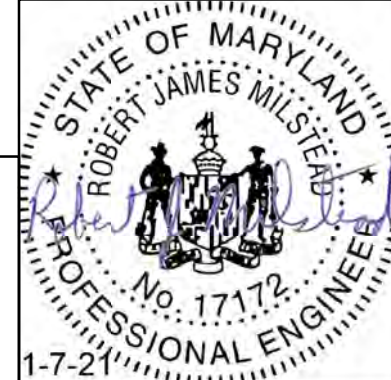
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ACCESS IMPROVEMENTS

MAINTENANCE OF TRAFFIC PLAN  
PHASE 2

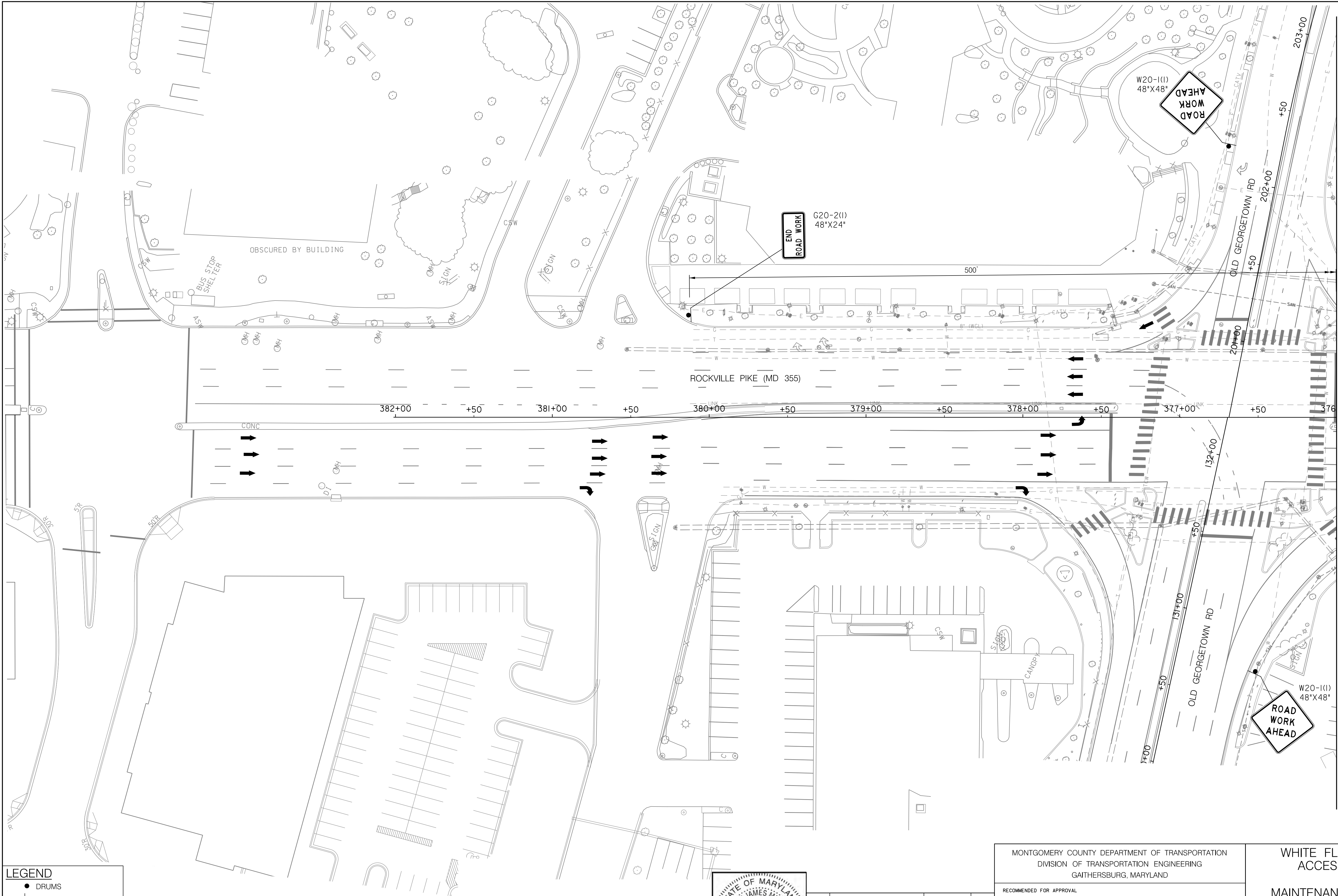
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MT - 07

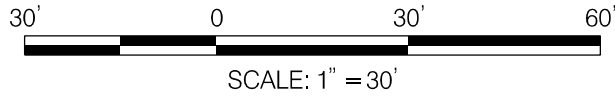


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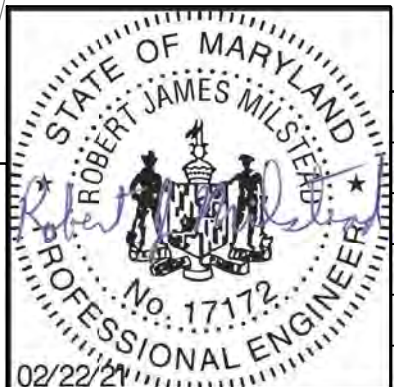
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- SIGN SUPPORT
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- WORK SITE
- ∞ ARROW PANEL
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MAINTENANCE OF TRAFFIC PLAN PHASE 2	
SCALE : 1" = 30'	DATE : FEB 2021
Project No. : <u>502106</u>	SHEET <u>19</u> of <u>28</u>

MT - 08



CRITERIA

THE CONTRACTOR SHALL BE GOVERNED BY THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS OF THIS CONTRACT:

DESIGN

MDSHA - "MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2011 EDITION AND SUBSEQUENT REVISIONS. (MdMUTCD)

A A S H T O - "HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE" -1997

A A S H T O - "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS LUMINAIRES AND TRAFFIC SIGNALS", 2001 EDITION (CATEGORY II FOR ALL OVERHEAD AND CANTILEVER SIGN STRUCTURES).

MATERIALS AND CONSTRUCTION

MDSHA - "STANDARD SPECIFICATIONS FOR CONSTRUCTION & MATERIALS", 2008 EDITION AND SUBSEQUENT SUPPLEMENTS.

DESIGN WIND

100 MPH - WOOD SUPPORTS  
10 YEAR RECURRENCE INTERVAL

100 MPH - GROUND MOUNT SIGN STEEL SUPPORTS  
10 YEAR RECURRENCE INTERVAL

100 MPH - OVERHEAD AND CANTILEVER STRUCTURES  
50 YEAR RECURRENCE INTERVAL

ALL DISTRICTS

DESIGN STRESS

SOIL BEARING PRESSURE - S = 3,000 P.S.F. (ASSUMED)  
SEE MATERIAL & CONSTRUCTION ABOVE AND SPECIAL PROVISIONS FOR DESIGN STRESSES FOR STRUCTURAL STEEL, ALUMINUM, REINFORCING STEEL AND CONCRETE.

CHAMFER

ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" X 3/4" CHAMFER.

CLASSIFICATION OF SIGNS

SIGNS ARE DIVIDED INTO TWO (2) GENERAL CATEGORIES.

I. GUIDE SIGNS

- A) STRUCTURAL TYPES  
OH - OVERHEAD  
C - CANTILEVER  
GM - GROUND MOUNT, BREAKAWAY  
OR NON-BREAKWAY  
BM - BRIDGE MOUNTED

B) PANELS

MATERIAL - EXTRUDED ALUMINUM  
COPY - DIRECT APPLIED  
  
I) HIGH INTENSITY (NEW SIGNS AND REVISIONS TO EXISTING SIGNS)

2. STANDARD SIGNS (REGULATORY, WARNING, ETC.)

- A) STRUCTURAL TYPES  
WOOD SUPPORTS  
SQUARE TUBE

B) PANELS

MATERIAL - SHEET ALUMINUM  
COPY - DIRECT APPLIED

IDENTIFICATION OF SIGNS AND PANELS

GUIDE SIGNS

EACH GUIDE SIGN IS IDENTIFIED BY A SIGN NUMBER ON THE PLANS AND IN THE TABULATIONS. (GM-1, GM-2, GM-3, etc)  
SIGNS ON STRUCTURES ARE IDENTIFIED WITH A NUMBER AND WHERE VARIATIONS OCCUR, A LOWER CASE LETTER. (OH-1a, OH-1b, OH-1c)

STANDARD SIGNS

STANDARD SIGNS ARE IDENTIFIED BY PANEL NUMBERS AND ARE CLASSIFIED AS FOLLOWS  
R - REGULATORY  
W - WARNING  
M - ROUTE MARKERS AND ACCESSORIES  
D - DESTINATION AND MILEAGE PANELS  
S - SCHOOL

PANELS SHALL BE DESIGNATED TO AGREE WITH MARYLAND STANDARD SIGN BOOK. EACH STANDARD SIGN IS IDENTIFIED FIRST BY THE SHEET NUMBER, THEN BY THE NUMERICAL ORDER OF THE SIGN AS IT APPEARS ON THE PLAN.  
FOR EXAMPLE SHEET SN 2.J-101,102,103, ETC. SHEET SN 2.2-201,202,203,ETC.

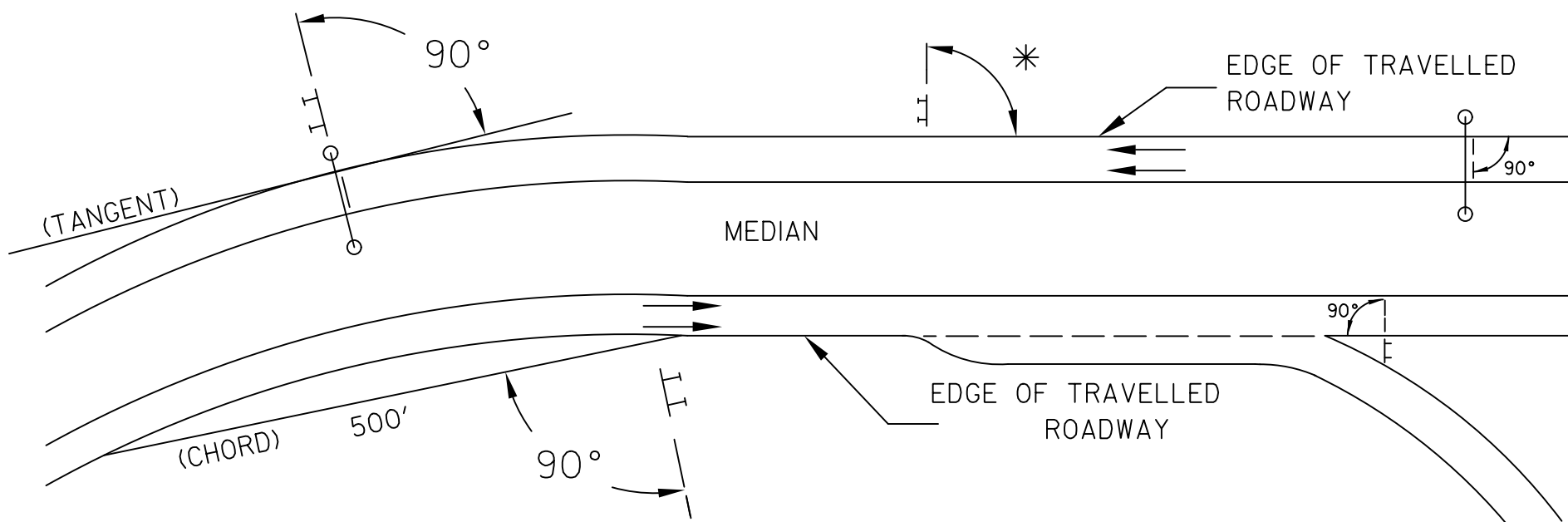
PANEL LAYOUT AND ALPHABETS

1. GUIDE SIGN PANEL LAYOUTS ARE BASED ON THE A.A.S.H.T.O. MANUALS NOTED ABOVE.  
2. STANDARD SIGN PANEL LAYOUTS ARE BASED ON THE MdMUTCD WITH SPECIFICATIONS DETAILED IN THE MARYLAND STATE HIGHWAY ADMINISTRATION PUBLICATION, "STANDARD SIGN BOOK", AVAILABLE ONLINE @ [https://www.marylandroads.com/businesswithsha/bizStdsSpecs/desManualStdPub/publicationsonline/oots/internet\\_signbook.asp](https://www.marylandroads.com/businesswithsha/bizStdsSpecs/desManualStdPub/publicationsonline/oots/internet_signbook.asp)

REFLECTORIZATION

BACKGROUNDS, BORDERS, TEXTS AND ALL OTHER ELEMENTS OF SIGN PANELS SHALL BE REFLECTORIZED EXCEPT WHERE NOTED. REFER TO PROJECT REQUIREMENTS FOR MORE DETAIL.

ORIENTATION OF SIGN FACES



\* UNDER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 93° AWAY FROM THE ROAD TO AVOID SPECULAR REFLECTION AS INDICATED IN 813.03 OF THE MARYLAND STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

OVER 30 FEET FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - 90°

SIGN LOCATIONS

1. GUIDE SIGNS ARE LOCATED ON THE PLANS BY DIMENSION TO SURVEY STATIONS, OR WHEN NECESSARY, TO IDENTIFIABLE PHYSICAL FEATURES.  
2. ALL CHANGES IN THE LOCATIONS OF SIGNS AS SHOWN ON THE PLAN SHALL HAVE THE PRIOR APPROVAL OF THE ENGINEER.

EXISTING UTILITIES

THE ENGINEER DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR COMPLETENESS OF UTILITY INFORMATION SHOWN ON THE PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING FACILITIES WHICH MIGHT BE AFFECTED BY THIS WORK OR HIS OPERATION.

ROADSIDE SIGNS

1. VERTICAL ALIGNMENT  
POSITION PANEL SO FACE IS PLUMB.  
2. HORIZONTAL ALIGNMENT (SEE DIAGRAM ABOVE)  
A) ON STRAIGHT ROADWAY SECTIONS, ANGLE OF SIGN FACE TO ROADWAY VARIES WITH DISTANCE FROM TRAVELLED ROADWAY TO NEAR EDGE OF SIGN - SEE DIAGRAM.  
B) ON THE INSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL MAKES AN ANGLE OF 90° WITH A CHORD BETWEEN A POINT ON NEAR EDGE OF PAVEMENT AT SIGN LOCATION AND A POINT ON EDGE OF PAVEMENT 500' IN ADVANCE OF SIGN.  
C) ON THE OUTSIDE OF HORIZONTAL CURVES, POSITION SIGN SO FACE OF PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT THE SIGN LOCATION.  
D) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.

OVERHEAD SIGNS

1. VERTICAL ALIGNMENT  
POSITION PANELS FOR ALL OVERHEAD STRUCTURES SO THAT PANEL FACE IS PLUMB.  
2. OVERHEAD SIGN STRUCTURES SHALL NOT BE ERECTED WITHOUT ATTACHING LUMINAIRES, SUPPORTS, AND/OR SIGNS.  
3. HORIZONTAL ALIGNMENT  
A) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE NORMAL EDGE OF ROADWAY, IF ON A STRAIGHT ROADWAY SECTION.  
B) POSITION ALL OVERHEAD SIGNS SO THAT THE FACE OF THE PANEL IS AT RIGHT ANGLES TO THE TANGENT OF THE CURVE AT SIGN LOCATION, IF ON A HORIZONTAL CURVE.  
C) POSITIONING OF SIGNS AT GORES AND RAMP SEPARATIONS IS REFERRED TO THE NORMAL EDGE OF THE MAINLINE ROADWAY.  
4. VERTICAL CLEARANCE  
A) OVERHEAD SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 17'-9" FROM ROADWAY TO THE BOTTOM OF LIGHT FIXTURES. ALL LIGHT FIXTURES ARE TO BE AT THE SAME ELEVATION.  
B) IF THE CONTRACTOR CANNOT OBTAIN 17'-9" (SEE 3A) CLEARANCE, HE IS TO CEASE WORK AND CONTACT THE PROJECT ENGINEER FOR FURTHER INSTRUCTIONS. THE PROJECT ENGINEER MAY CONTACT THE TRAFFIC ENGINEERING DESIGN DIVISION FOR ASSISTANCE.  
C) ON ALL OVERHEAD SIGNS, THE MINIMUM CLEARANCE TO BOTTOM OF SIGN: 20'-9".

PROJECT REQUIREMENTS

ALL NEW SIGNS ON THIS PROJECT SHALL BE FABRICATED FROM SHEETING WHICH MEETS ALL OF THE FOLLOWING REQUIREMENTS, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER:

1. SHEETING SHALL MEET THE REQUIREMENTS OF SECTIONS 813 AND 950.03 OF MDSHA'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JULY 2008) AND SUBSEQUENT REVISIONS  
2. LISTED ON MDSHA OFFICE OF TRAFFIC AND SAFETY'S QUALIFIED PRODUCTS LIST (QPL)

PROJECT REQUIREMENTS CONT'D

3. THE FOLLOWING TYPES OF SHEETING SHALL BE USED FOR THE SPECIFIED SIGN CLASSIFICATIONS

A) GUIDE, EXIT GORE, AND GENERAL INFORMATION SIGNS- RETROREFLECTIVE SHEETING FOR GUIDE SIGNS, EXIT GORE, AND GENERAL INFORMATION (INCLUDES WHITE ON GREEN, WHITE ON BLUE, WHITE ON BROWN AND THE REVERSE OF THESE COLORS) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX LEGEND ON ASTM TYPE IX BACKGROUND. REGULATORY AND WARNING MESSAGES WITHIN GUIDE SIGNS SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING.

B) WARNING SIGNS - RETROREFLECTIVE SHEETING FOR BLACK ON FLUORESCENT YELLOW WARNING SIGNS SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING. REGULATORY MESSAGES WITHIN WARNING SIGNS SHALL FOLLOW THE GUIDELINES FOR REGULATORY SIGNS.

C) SCHOOL SIGNS - RETROREFLECTIVE SHEETING FOR SCHOOL SIGNS (BLACK ON FLUORESCENT YELLOW AND BLACK ON FLUORESCENT YELLOW GREEN) SHALL BE NON-REFLECTIVE BLACK LEGEND ON BACKGROUND SHEETING WHICH MEETS OR EXCEEDS THE REQUIREMENTS FOR ASTM TYPE IX SHEETING. REGULATORY MESSAGES WITHIN SCHOOL SIGNS SHALL FOLLOW THE REQUIREMENTS FOR REGULATORY SIGNS.

D) REGULATORY SIGNS - FALL INTO THREE SUBCATEGORIES:

- i. "RED" REGULATORY SIGNS (STOP, YIELD, DO NOT ENTER AND WRONG WAY)  
RETROREFLECTIVE SHEETING FOR THESE SIGNS AND THEIR SUPPLEMENTAL PANELS (INCLUDES WHITE ON RED AND RED ON WHITE) SHALL MEET OR EXCEED THE REQUIREMENTS FOR ASTM TYPE IX SHEETING.  
  
ii. ALL R7 AND R8 SERIES PARKING RELATED SIGNS AND THEIR SUPPLEMENTAL PANELS, NO TRESPASSING SIGNS, AND SIGNS DIRECTED AT PEDESTRIANS AND BICYCLISTS ONLY (INCLUDES RED ON WHITE, GREEN ON WHITE, BLUE ON WHITE, BLACK ON WHITE AND THE REVERSE OF THESE COLORS) SHALL BE ASTM TYPE I LEGEND ON ASTM TYPE I BACKGROUND.  
  
iii. ALL OTHER REGULATORY SIGNS - RETROREFLECTIVE SHEETING FOR THESE SIGNS AND THEIR SUPPLEMENTAL PANELS (INCLUDES BLACK ON WHITE) SHALL BE NON-REFLECTIVE BLACK LEGEND ON ASTM TYPE IV BACKGROUND. WHERE RED IS SPECIFIED, OR WHERE THE COLOR OF THE SIGN IS WHITE ON BLACK, THE LEGEND SHALL BE ASTM TYPE IV RETROREFLECTIVE SHEETING ON NON-REFLECTIVE BLACK BACKGROUND. WARNING MESSAGES WITHIN REGULATORY SIGNS SHALL FOLLOW THE GUIDELINES FOR WARNING SIGNS.

E) ROUTE MARKERS - RETROREFLECTIVE SHEETING FOR ROUTE MARKERS (INCLUDES BLACK ON WHITE, GREEN ON WHITE, WHITE ON GREEN, WHITE ON RED/BLUE) SHALL MEET THE REQUIREMENTS OF GUIDE SIGNS ABOVE WHEN SPECIFIED AS THE LEGEND OF A GUIDE SIGN. RETROREFLECTIVE SHEETING FOR ALL INDEPENDENT ROUTE MARKERS AND THEIR AUXILIARY PANELS SHALL BE ASTM TYPE IV AND/OR NON-REFLECTIVE BLACK LEGEND ON ASTM TYPE IV BACKGROUND.

F) LOGOS AND/OR GRAPHICS - WITHIN SIGNS SHALL FOLLOW THE GUIDELINES FOR THE RESPECTIVE SIGN CLASSIFICATION UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OR AS DIRECTED BY THE ENGINEER.

G) CIVIL DEFENSE SIGNS AND OTHER SIGNS - NOT SPECIFICALLY FALLING INTO ONE OF THE CATEGORIES ABOVE, SHALL FOLLOW THE GUIDELINES FOR THE SIGN CLASSIFICATION THAT MOST CLOSELY MATCHES THE COLOR(S) OF THE PROPOSED SIGN.

4. THE FOLLOWING MINIMUM THICKNESS SHALL BE USED FOR THE APPROPRIATE WIDTH OF SHEET ALUMINUM BLANKS.

LONGEST DIMENSION

MINIMUM THICKNESS

UP TO 12" .....0.040"  
GREATER THAN 12" TO 24" .....0.063"  
GREATER THAN 24" TO 36" .....0.080"  
GREATER THAN 36" TO 48" .....0.100"  
OVER 48" .....0.125"

SN - 01



OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (ROCKVILLE PIKE) AND  
MD 187 (OLD GEORGETOWN RD)

GENERAL NOTES AND PROPOSALS

SCALE \_\_\_\_\_ ADVERTISED DATE \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_

DESIGNED BY \_\_\_\_\_ COUNTY \_\_\_\_\_ MONTGOMERY  
DRAWN BY \_\_\_\_\_ LOGMILE \_\_\_\_\_ 15035506.356  
CHECKED BY \_\_\_\_\_ TMS NO. \_\_\_\_\_  
MDE/PRD \_\_\_\_\_ NA \_\_\_\_\_ TOD NO. \_\_\_\_\_

DRAWING NO. SN-1 OF 1 SHEET NO. 20 OF 28



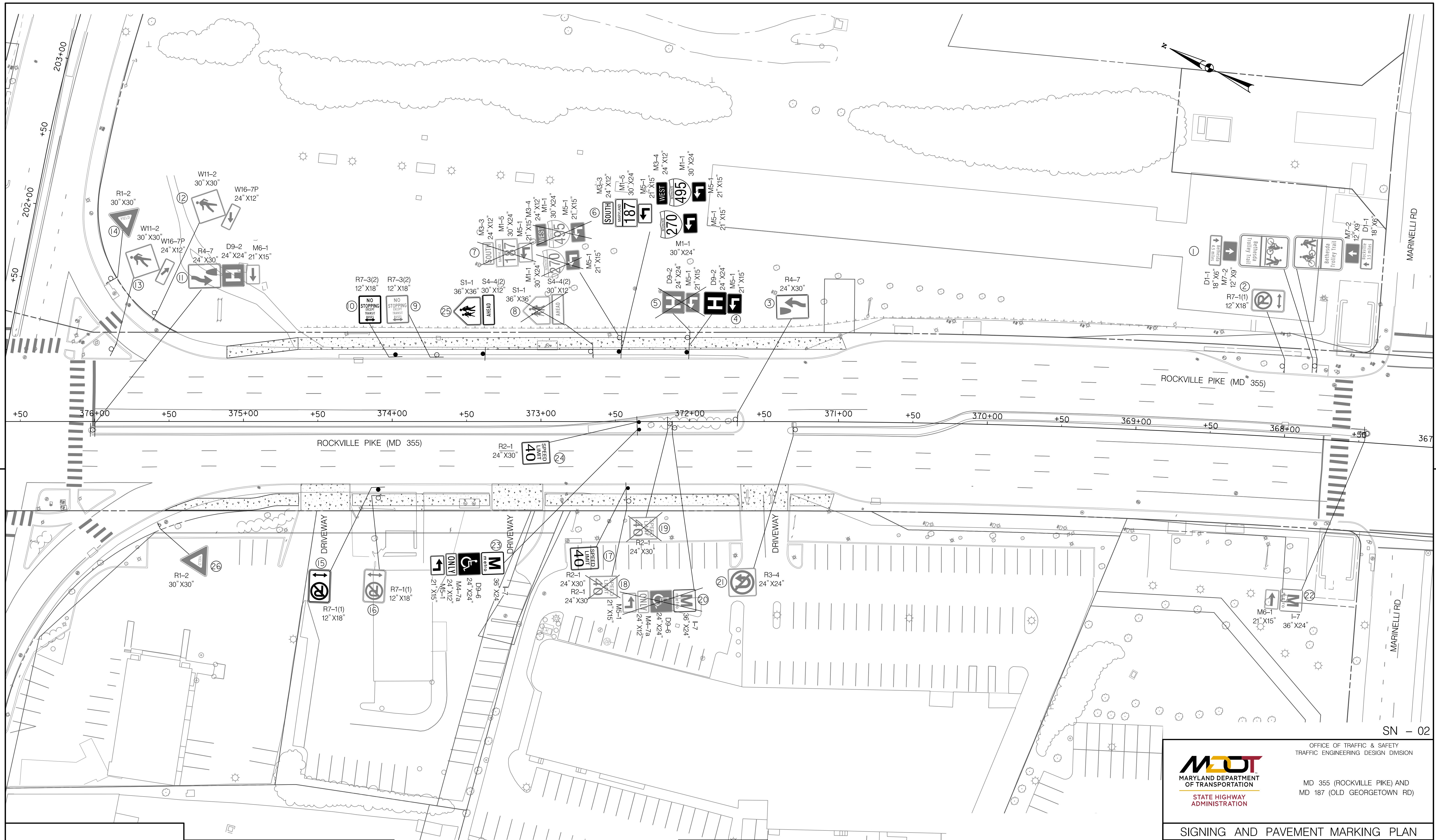
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[www.stantec.com](http://www.stantec.com)

PROFESSIONAL CERTIFICATION:  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED  
OR APPROVED BY ME, AND THAT I AM A DULY LICENSED  
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE  
OF MARYLAND.  
LICENSE NO: 17172 EXPIRATION DATE: 12-12-2022







SN - 02



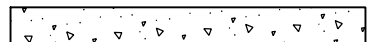
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## LEGEND



EXISTING SIGN SUPPORT	PROPOSED SIGN SUPPORT
	

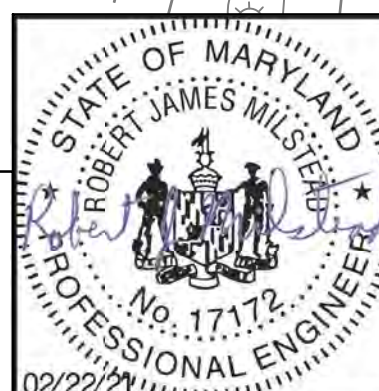


CONCRETE SIDEWALK



- EX. RIGHT OF WAY

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MDOT  
MARYLAND DEPARTMENT  
OF TRANSPORTATION  
STATE HIGHWAY  
ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (ROCKVILLE PIKE) AND  
MD 187 (OLD GEORGETOWN RD)

## SIGNING AND PAVEMENT MARKING PLAN

SCALE \_\_\_\_\_ ADVERTISED DATE \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_

DESIGNED BY _____	COUNTY _____ MONTGOMERY
DRAWN BY _____	LOGMILE _____ 15035506.356
CHECKED BY _____	TIMS NO. _____
MDE/PRD _____ NA	TOD NO. _____

DRAWING NO.	SN-2.1	OF 01	SHEET NO.	21	OF 28
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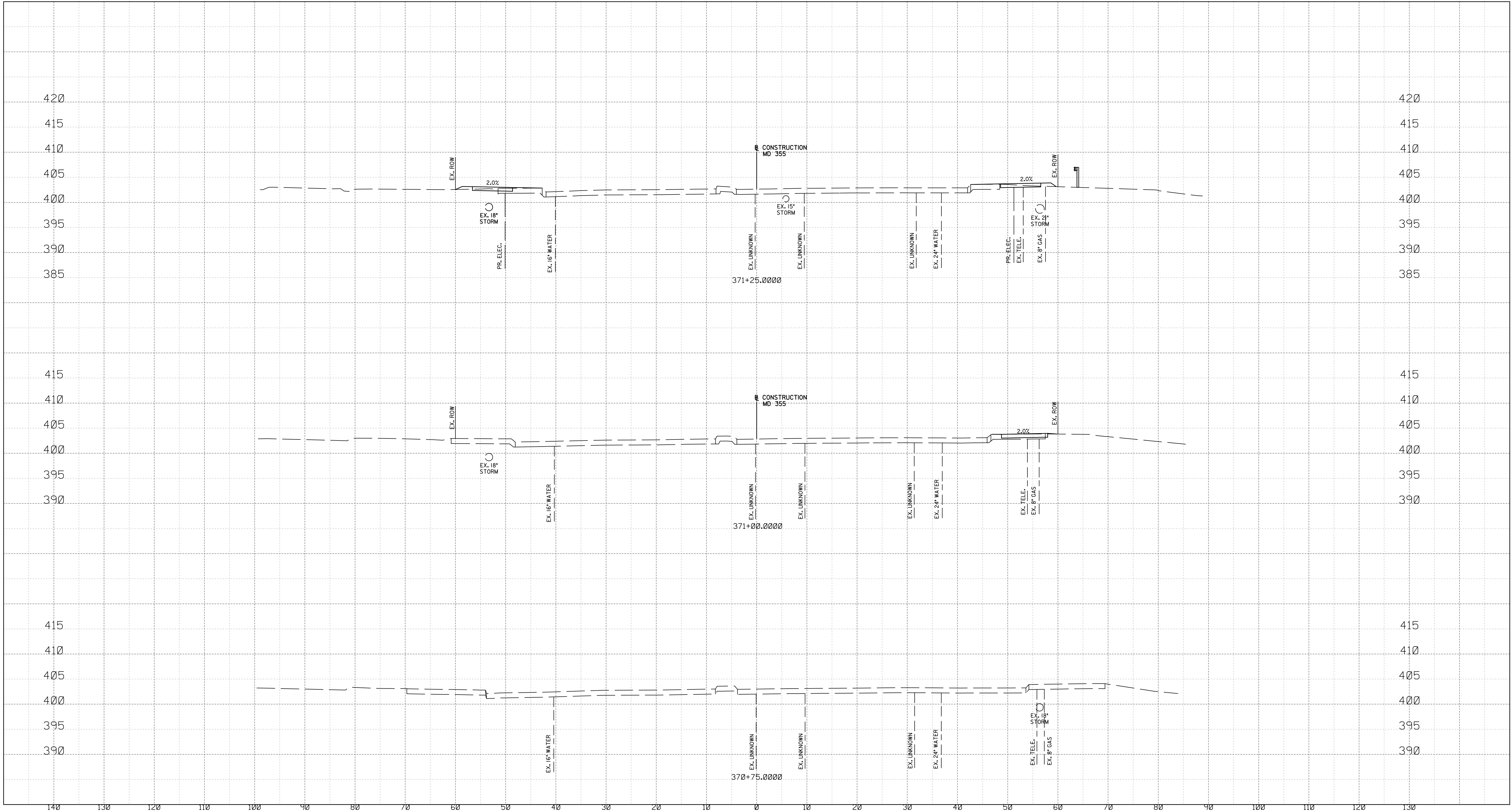
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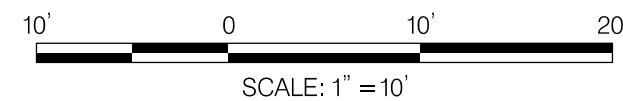




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**NOTE:**  
1. CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.  
THERE ARE SHALLOW STORM DRAIN PIPES WITHIN THE PROJECT LIMITS.



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LICENSE NO: 28255 EXPIRATION DATE: 6-30-2022



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED

Date

Chief, Division of Transportation Engineering

Date

Designed by :

Drawn by :

Checked by :

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10'

DATE : FEB 2021

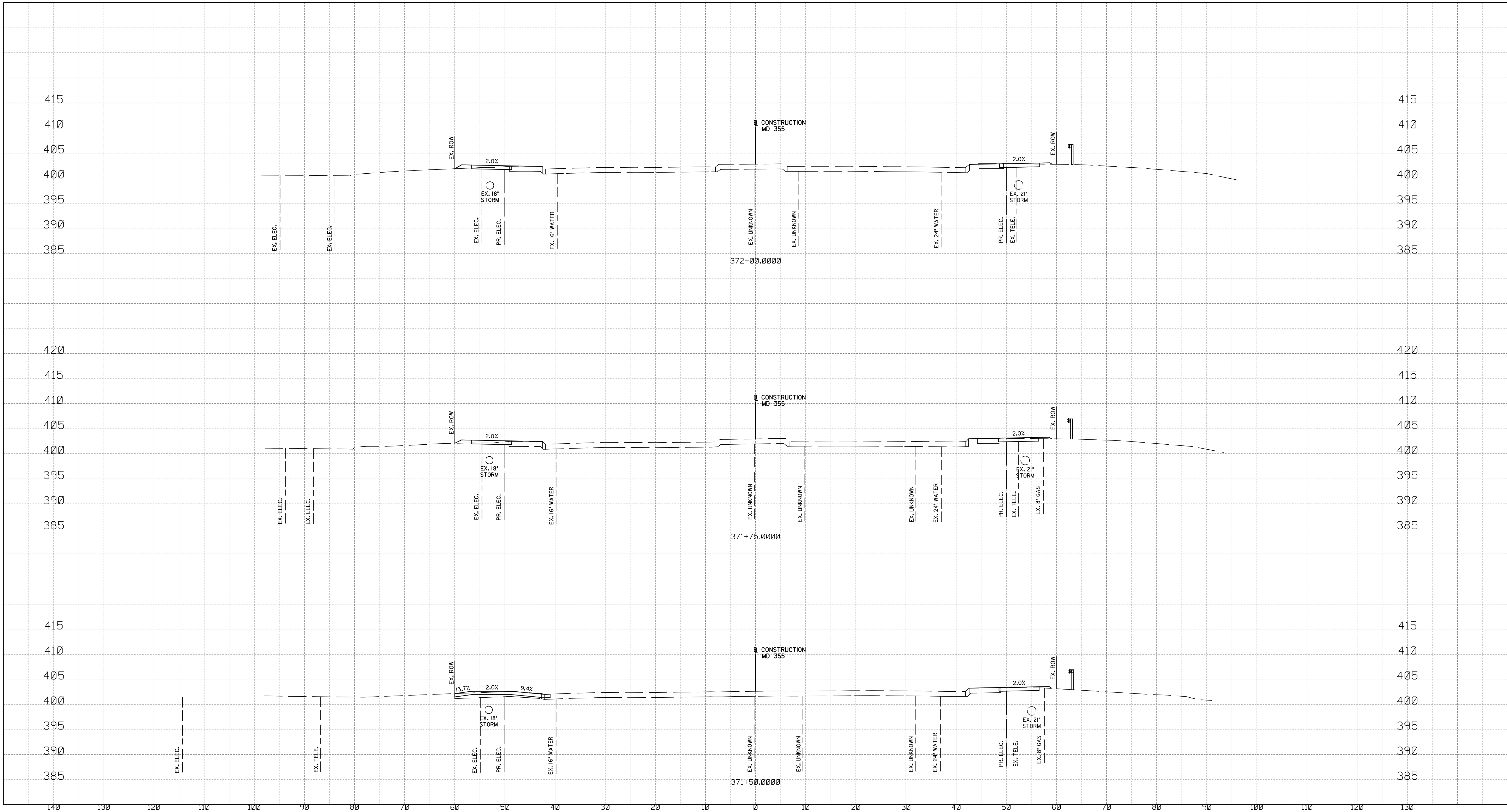
Project No. : 502106

SHEET 23 of 28

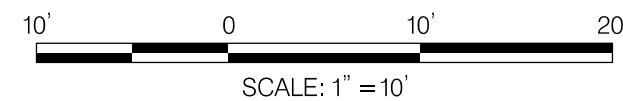
XS-01



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

RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED

Date

Chief, Division of Transportation Engineering

Date

Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

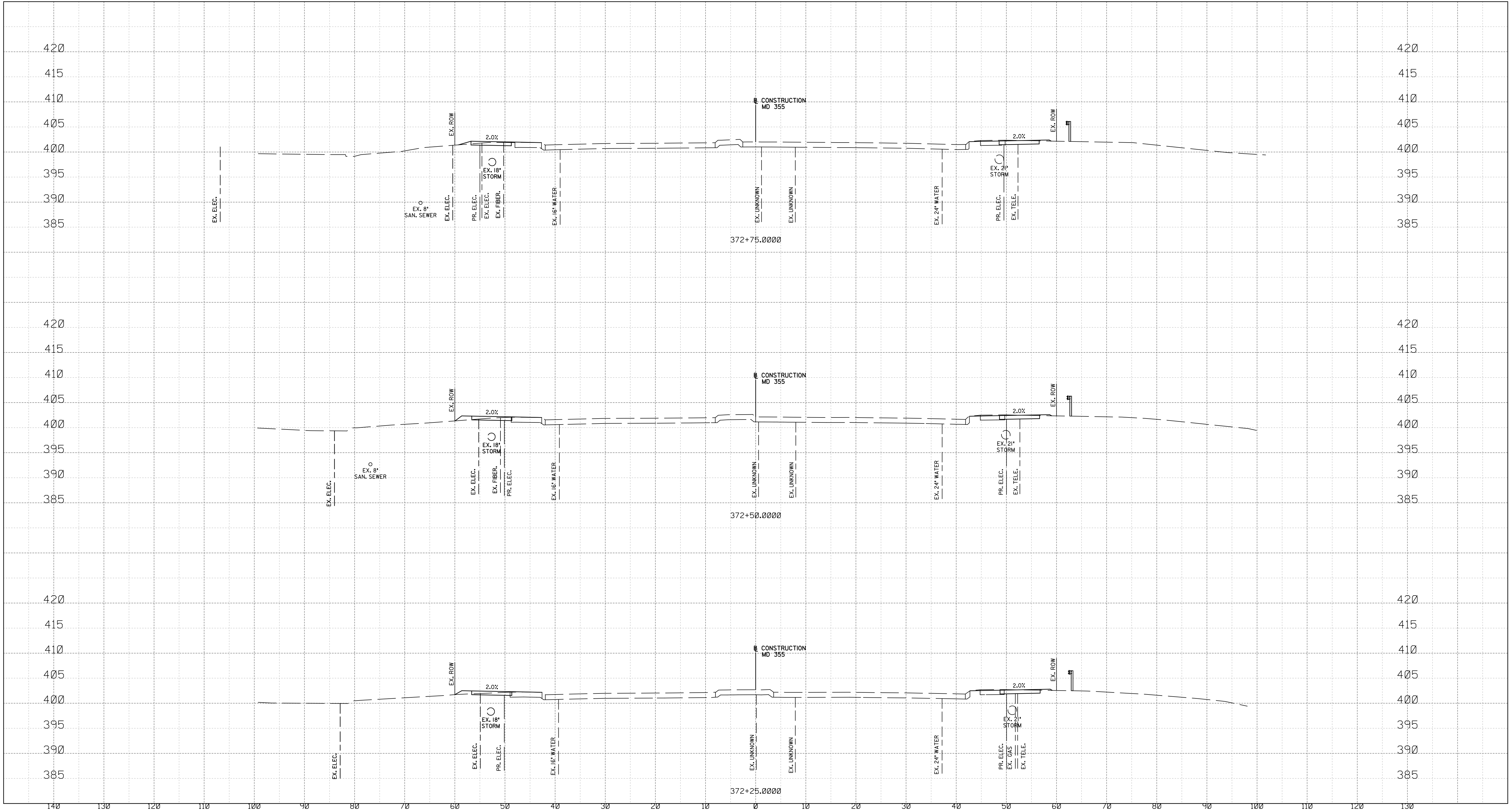
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Project No. : 502106 SHEET 24 of 28

XS-02



Wednesday, March 17, 2021 AT 01:14 PM  
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LICENSE NO: 28255 EXPIRATION DATE: 6-30-2022



NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

\_\_\_\_\_

\_\_\_\_\_

Date

\_\_\_\_\_

Chief, Division of Transportation Engineering

\_\_\_\_\_

Date

\_\_\_\_\_

Designed by : \_\_\_\_\_

Drawn by : \_\_\_\_\_

Checked by : \_\_\_\_\_

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

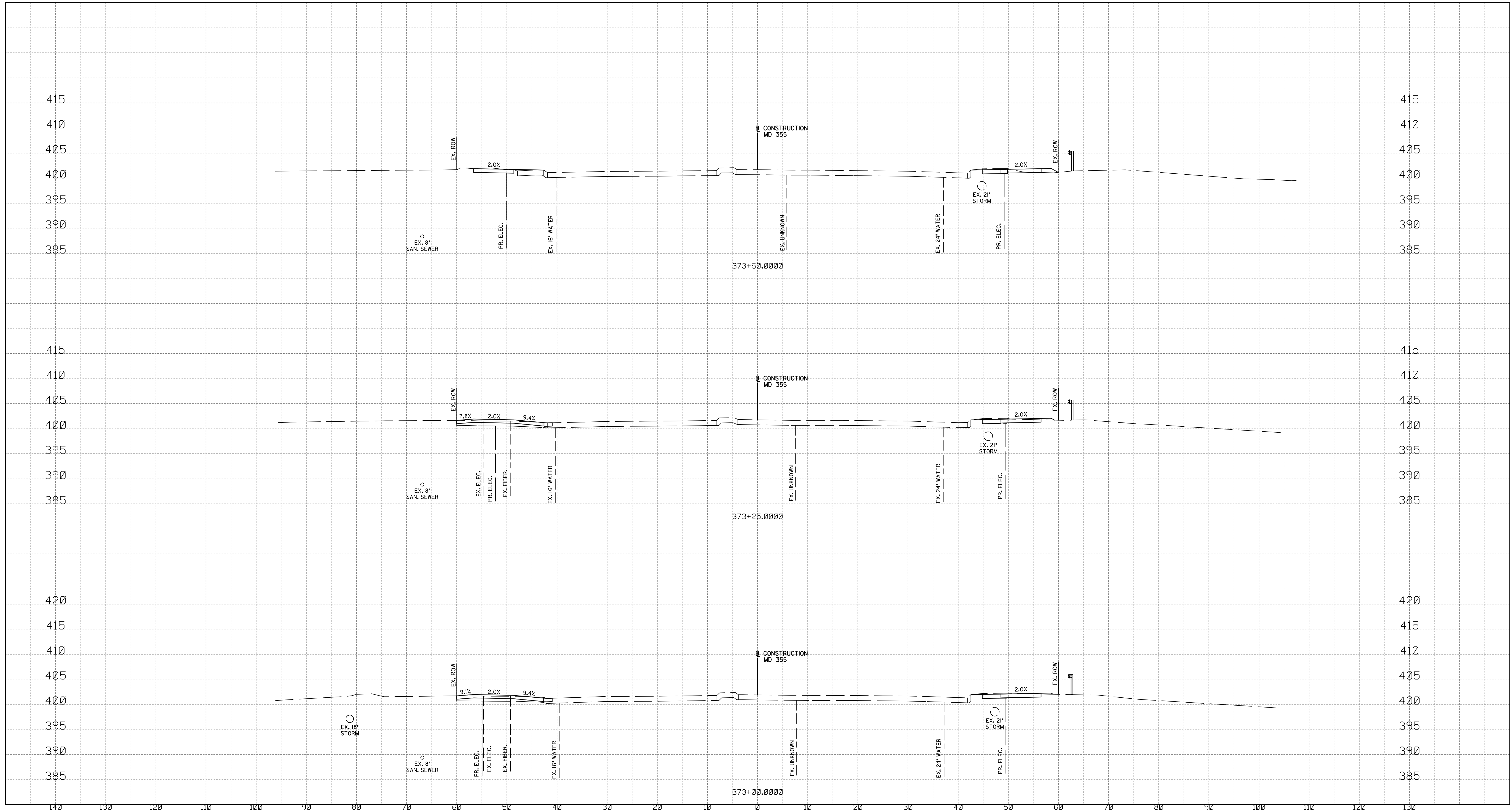
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Project No. : 502106      SHEET 25 of 28

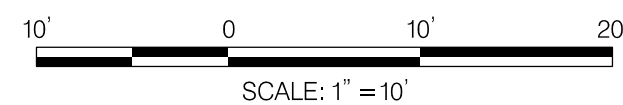
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LICENSE NO: 28255 EXPIRATION DATE: 6-30-2022



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

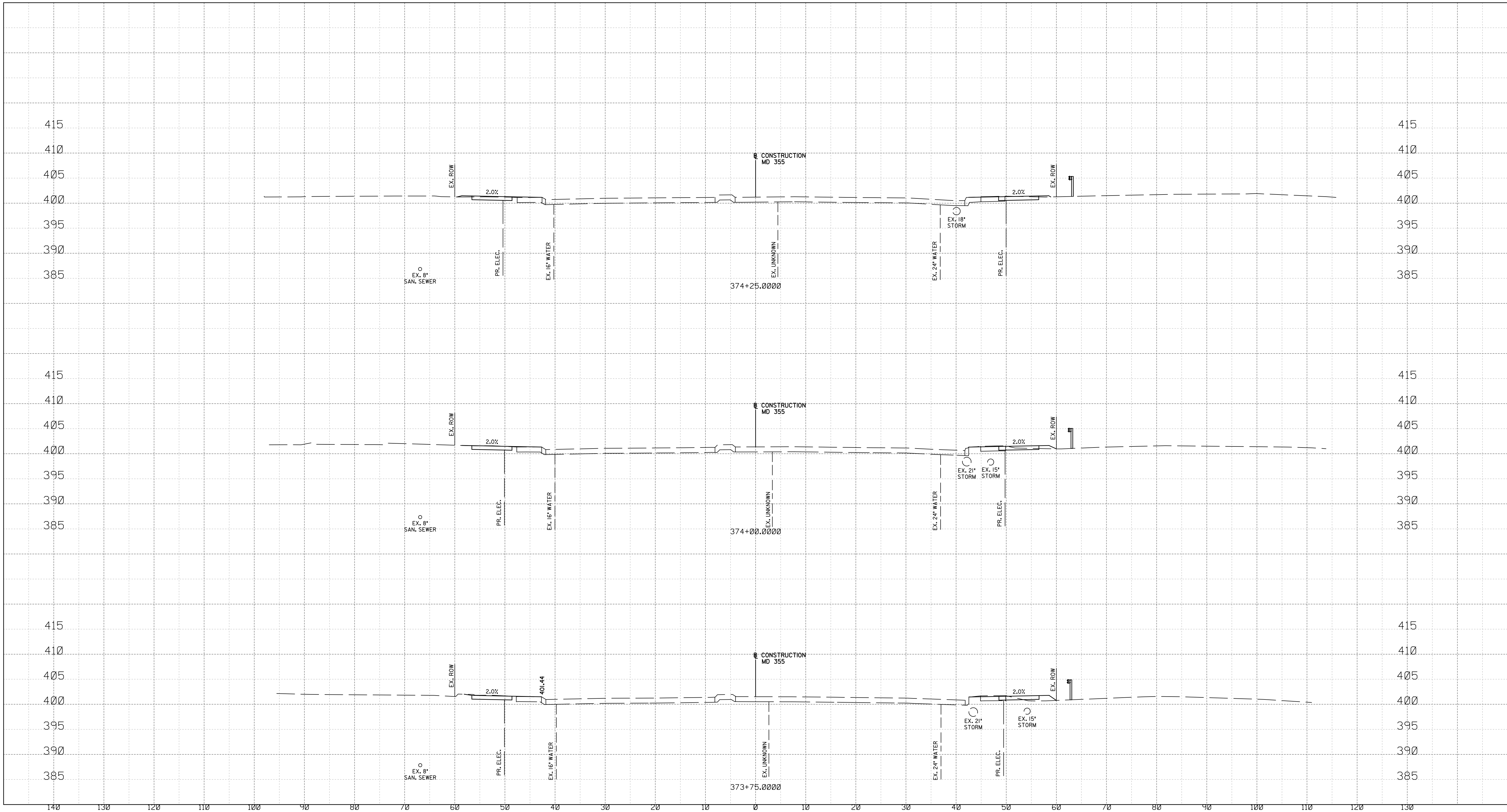
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ROADWAY CROSS SECTIONS

SCALE : 1" = 10'      DATE : FEB 2021  
Project No. : 502106      SHEET 26 of 28

XS-04



Wednesday, March 17, 2021 AT 01:14 PM  
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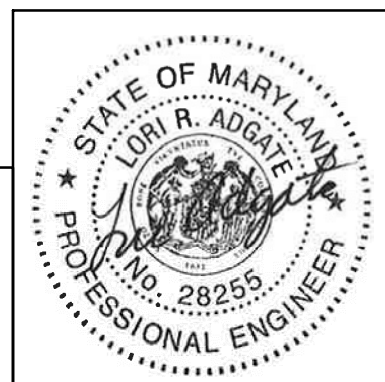
NOTE:  
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10' 0 10' 20'  
SCALE: 1" = 10'



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

RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED

Date

Chief, Division of Transportation Engineering

Date

Designed by : Drawn by : Checked by :

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

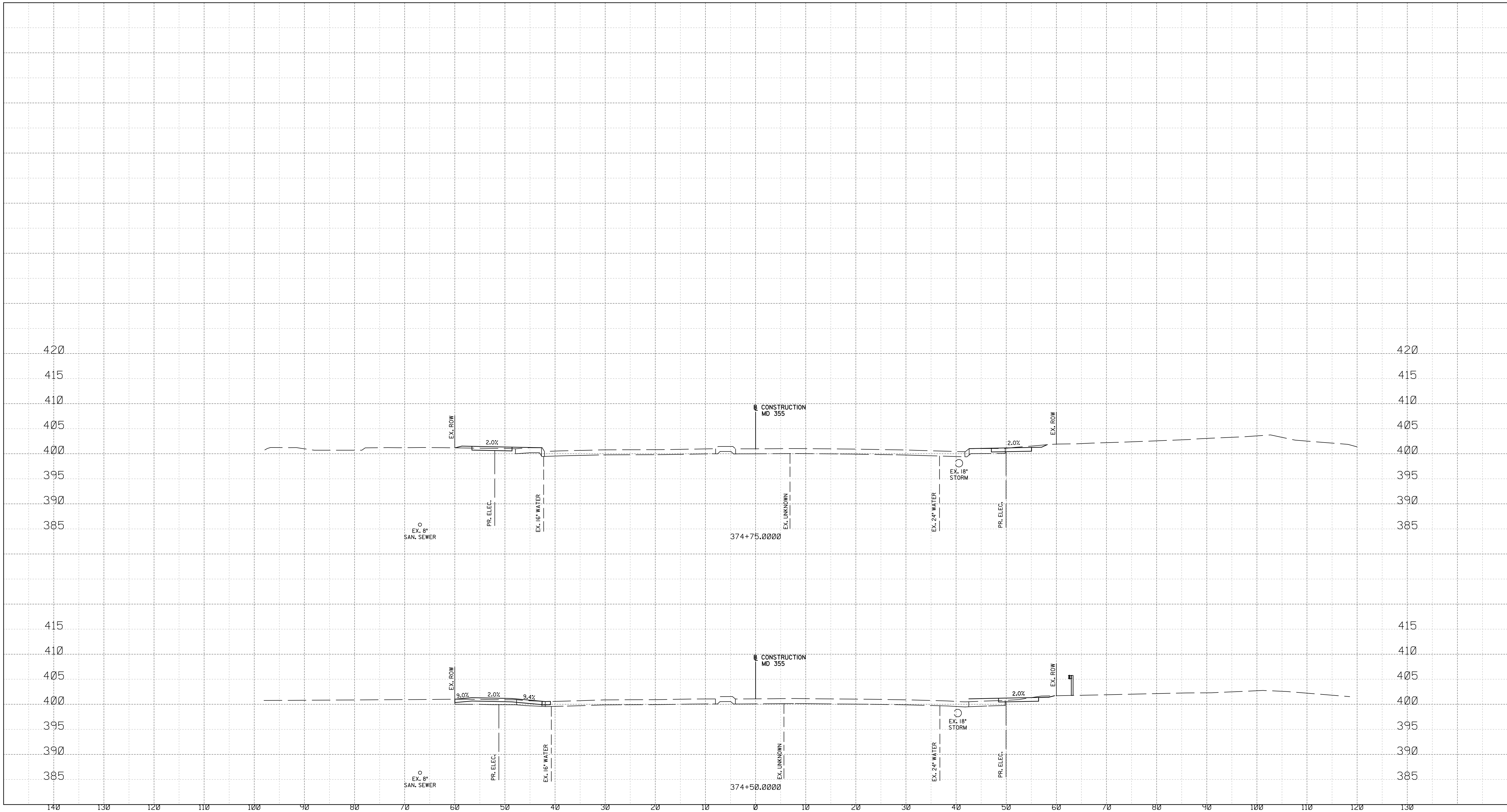
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Project No. : 502106 SHEET 27 of 28

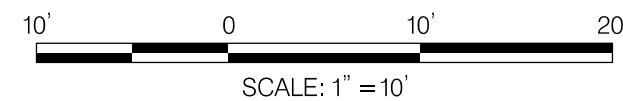
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LICENSE NO: 28255 EXPIRATION DATE: 6-30-2022



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

RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

SCALE : 1" = 10' DATE : FEB 2021  
Project No. : 502106 SHEET 28 of 28

XS-06



Friday, January 22, 2021 AT 02:16 PM  
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THE FOLLOWING MARYLAND STANDARD (CONSTRUCTION AND TEMPORARY TRAFFIC CONTROL) DETAILS ARE REQUIRED FOR THE PROJECT:

MD 104.03-02 – SHOULDER WORK/MULTILANE UNDIV. EQUAL/LESS THAN 40 MPH  
MD 104.06-25 – MEDIAN WORK ALL SPEEDS  
MD 374.04 – STANDARD WR INLET  
MD 374.06 – SINGLE WR INLET  
MD 374.08 – TRIPLE WR INLET  
MD 374.51 –PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15', & 20'  
MD 383.11 – STANDARD DROP MANHOLE  
MD 387.11A –LONGITUDINAL UNDERDRAIN LOCATED AT CURB & GUTTER FOR FLEXIBLE PAVEMENT  
MD 620.02-01 – STANDARD TYPES C AND D CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER  
MD 630.02 – STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL AND COMMERCIAL, METHOD NO. 2  
MD 645.01 – STANDARD MONOLITHIC CONCRETE MEDIAN TYPE A  
MD 655.11 – SIDEWALK RAMPS PERPENDICULAR  
MD 655.13 – SIDEWALK RAMPS COMBINATION  
MD 655.21 – CUT-THROUGH MEDIAN AND ISLAND OPENINGS  
MD 655.40 – DETECTABLE WARNING SURFACES

FOR ALL STANDARDS REFERRED TO ON THE PLANS, THE CONTRACTOR MUST GO TO THE BOOK OF STANDARDS WHICH WILL HAVE THE MOST CURRENT VERSION. THE BOOK OF STANDARDS CAN BE ACCESSED AT: <http://apps.roads.maryland.gov/businesswithsha/bizSidsSpecs/desManualStdPub/publicationsonline/ohd/bookstd/index.asp>. ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.

INDEX OF SHEETS		
SHEET NO.	DRAWING NO.	SHEET NAME
1	TI-01	TITLE SHEET
2	GN-01	GENERAL NOTES, STANDARD SYMBOLS, & ABBREVIATIONS
3	GS-01	GEOMETRIC LAYOUT
4	TS-01	TYPICAL SECTIONS
5	TS-02	TYPICAL SECTIONS
6	DT-01	PAVING DETAILS
7	PS-01	ROADWAY PLAN
8	PR-01	ROADWAY PROFILE
9-II	DD-01-03	DRAINAGE & STORMWATER MANAGEMENT PLANS
12	ESC-01	EROSION & SEDIMENT CONTROL NOTES
13	ESC-02	EROSION & SEDIMENT CONTROL NOTES
14	ESC-03	EROSION & SEDIMENT CONTROL DETAILS
15	ESC-04	EROSION & SEDIMENT CONTROL PLAN
16	LN-01	LANDSCAPING PLAN
17	LN-02	LANDSCAPING NOTES & DETAILS
18	LT-01	LIGHTING PLAN
19	LT-02	LIGHTING NOTES & DETAILS
20	SN-01	SIGNING & PAVEMENT MARKING PLAN
21	SN-02	SIGNING & PAVEMENT QUANTITIES
22-38	XS-01-17	ROADWAY CROSS SECTIONS

### OWNER'S CERTIFICATION

I 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.

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

### 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 REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED AUGUST 1988.

I FURTHER CERTIFY THAT THE ESTIMATED TOTAL AMOUNTS OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE XX,XXX CUBIC YARDS OF EXCAVATION AND XX,XXX CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXX,XXX SQUARE FEET.

DATE \_\_\_\_\_  
LORI R. ADGATE, P.E.  
MD. REGISTRATION NO.28255



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ALL AREAS OF SHA PROPERTY AND PROPERTY TO BE DEDICATED TO SHA SHALL BE RESTORED IN CONFORMANCE WITH SHA STANDARD SPECIFICATIONS, EXCEPT AS NECESSARY FOR WORK FOR WHICH THERE ARE NO SHA STANDARD SPECIFICATIONS.

PRIOR TO VEGETATIVE STABILIZATION, ALL DISTURBED AREAS MUST BE TOPSOILED PER THE MONTGOMERY COUNTY "STANDARDS AND SPECIFICATIONS FOR TOPSOIL".

PROFESSIONAL CERTIFICATION:  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

PROJECT MANAGER  
REBECCA PARK, PE  
100 Edison Park Drive, 4th Floor  
Gaithersburg, MD 20878  
240-777-7263  
[rebecca.park@montgomerycountymd.gov](mailto:rebecca.park@montgomerycountymd.gov)

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		
RECOMMENDED FOR APPROVAL		
SEE TITLE SHEET FOR SIGNATURES Chief, Design Section	_____	Date _____
APPROVED		
SEE TITLE SHEET FOR SIGNATURES Chief, Division of Transportation Engineering	_____	Date _____
Designed by : _____	Drawn by : _____	Checked by : _____

RELATED REQUIRED PERMITS					
IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT					
TYPE OF PERMIT	REQD	NOT REQD	PERMIT #	EXPIRATION DATE	WORK RESTRICTION DATES
MDPS Floodplain District		X			
WATERWAYS/WETLAND(S):					
a. Corps of Engineers		X			
b. MDE		X			
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
*DPS Roadside Trees Protection Plan		X		Approval Date _____	
N.F.D.E.S. NOTICE OF INTENT	X		REGISTRATION NO. XXXXXXXX		DATE FILED XX/XX/XXXX
FEMA (OMR (Required Post Construction)		X			
OTHERS:					
DPS Erosion and Sediment Control	X		XXXXXX		
MDCPPC Permit		X	XXXXXX		
*A copy of the Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting.					
OWNER/PERMIT APPLICANT INFORMATION					
NAME:	MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION				
ADDRESS:	100 EDISON PARK DRIVE, GAITHERSBURG, MD 20878				
PHONE NUMBER:	(240) 777-7209				
CONTACT PERSON:	TIMOTHY H. CUPPLES, P.E.				

TREE CANOPY REQUIREMENTS TABLE	
To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects	
Exempt: Yes <input type="checkbox"/> No <input type="checkbox"/> If exempt under Section 55-5 of the Code, please list the applicable exemption category below this table.	
Project is subject to Chapter 22A-9 of the Mont. Co. Forest Conservation Law	
Total Property Area	Total Disturbed Area
N/A square feet	XX,XXX square feet
Shade Trees Required	Shade Trees Proposed to be Planted
XX	X
Fee In Lieu (Trees Required - Trees Proposed) x \$250	Total Fee In Lieu \$ XXX,XXX.XX
Required Number of Shade Trees	
Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required
From To	
1 6,000	3
6,001 8,000	6
8,001 12,000	9
12,001 14,000	12
14,001 40,000	15
If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula: (Number of Square Feet in Limits of Disturbance / 40,000) x 15	
*Please list the square footage of each proposed planting area on the first sheet of the plan set.	

### APPROVALS:

TRAFFIC CONTROL PLANS	SIGNATURE _____	DATE _____
LIGHTING PLANS	SIGNATURE _____	DATE _____
SIGNING & PAVEMENT MARKING PLANS	SIGNATURE _____	DATE _____
TRAFFIC SIGNAL PLANS	SIGNATURE _____	DATE _____

TECHNICAL REVIEW OF SEDIMENT CONTROL	ADMINISTRATIVE REVIEW	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.
REVIEWED _____ DATE _____	REVIEWED _____ DATE _____	
TECHNICAL REVIEW OF STORMWATER MANAGEMENT	SMALL LOT DRAINAGE APPROVAL	SEDIMENT CONTROL PERMIT NO. _____
REVIEWED _____ DATE _____	REVIEWED _____ DATE _____	SM. FILE NO. _____ STORMWATER MANAGEMENT
MDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.		NOTE: MDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MDPS ACCESS PERMIT.

SC-01 OF XX

TI-01

### WHITE FLINT METRO STATION ACCESS IMPROVEMENTS

#### TITLE SHEET

SCALE : N.T.S. DATE : JAN 2021

Project No. : 502106 SHEET \$T101\$ of 38



Thursday, January 21, 2021 AT 04:31 PM  
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GENERAL NOTES

1. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2019, ALL ERATA AND ADDENDA THERETO. THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
2. FOR CONSTRUCTION, HORIZONTAL SHALL BE BASED ON NAD 83/91 DATUM AND VERTICAL SHALL BE BASED ON NAVD 1988 DATUM.
3. WHEN THE DROP ON THE MAIN LINE THROUGH A STORM DRAIN STRUCTURE CAN BE ACCOMMODATED BY AN INVERT SLOPE OF 1.5:1 OR FLATTER, A ROUNDED CHANNEL LINED WITH SEWER BRICK ON EDGE SHALL BE BUILT TO THE CROWN OF THE PIPES. WHEN THE INVERT SLOPES WOULD BE GREATER THAN 1.5:1 A SPECIAL INVERT SHALL BE CONSTRUCTED AS NOTED.
4. ALL STORM DRAIN PIPE SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE SPECIFIED.
5. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO STORM DRAIN STRUCTURES, WHEN NECESSARY, TO MEET EXISTING CONDITIONS, AS APPROVED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR.
6. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN OR SIX (6) INCHES, WHICHEVER IS LESS, CONTACT MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION'S PROJECT INSPECTOR AND THE APPROPRIATE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
7. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
8. CALL "MISS UTILITY" AT 1-800-257-7777 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING EXCAVATION TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES.
9. CLEARING IS TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
10. ALL GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE.
11. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS AND WATER QUALITY SWALES SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
12. THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL, OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT OF WAY. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES, MARYLAND FOREST, PARK AND WILDLIFE SERVICE, TELEPHONE 301-854-6060.
13. THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRATE RIGHT-OF-WAY PLATS.
14. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
15. THE CONTRACTOR SHALL INSTALL PEDESTRIAN DETECTABLE WARNING SURFACES AT ALL SIDEWALK & PEDESTRIAN CROSSINGS. LOCATIONS AS DIRECTED BY THE ENGINEER. THE WARNING SURFACES SHALL BE IN CONFORMANCE WITH ADA REQUIREMENTS AND THE PROJECT SPECIAL PROVISION.
16. THE DESIGN FOR THIS PROJECT HAS INCORPORATED FACILITIES FOR THE ELDERLY AND HANDICAPPED IN COMPLIANCE WITH STATE AND FEDERAL LEGISLATION.

ABBREVIATIONS

A.A.S.H.T.O. .... American Association of State Highway Transportation Officials	E ..... East	L.L. .... Liquid Limit	PROP. .... Proposed	STD. .... Standard
ABAN. .... Abandoned	E ..... Electric	LOD ..... Limit of Disturbance	PRC ..... Point of Reverse Curve	STA. .... Station
ABUT. .... Abutment	e ..... External Distance	LONG. .... Longitudinal	PT. .... Point	STIFF. .... Stiffener
ADT ..... Average Daily Traffic	EA ..... Each	L.P. .... Light Pole	PT ..... Point of Tangency	SO. .... Single Opening
AHD ..... Ahead	E.B. .... Eastbound	LT. .... Left	PVC ..... Point of Vertical Curve	S.Y. .... Square Yards
APPROX. .... Approximate	E.J. .... Expansion Joint	MAC. .... Macadam	P.V.C. .... Polyvinyl Chloride	SWM ..... Stormwater Management
B or BL ..... Baseline	EL. or ELEV. .... Elevation	MAX. .... Maximum	PVI ..... Point of Vertical Intersection	T ..... Tangent
BK ..... Back /Book	E.R.C.C.P. .... Elliptical Reinforced Cement Concrete Pipe	MB ..... Micro Bio	PVRC ..... Point of Vertical Reverse Curve	T ..... Telephone
BIT. .... Bituminous	ES ..... End Section	MC ..... Moisture Content	PVT ..... Point of Vertical Tangency	T.C. .... Top of Cover
B.C. .... Bituminous Concrete	EX. or EXIST. .... Existing	MDD ..... Maximum Dry Content	R ..... Radius	TEMP. .... Temporary
B.M. .... Bench Mark	FT ..... Feet	MOD. .... Modified	REINF. .... Reinforcement	T.G. .... Top of Grate
B.O.F. .... Bottom of Footing	F or FL ..... Flowline	MIN. .... Minimum	REQ'D ..... Required	T.B.R. .... To Be Removed
BOT. .... Bottom	F.B.D. .... Flat Bottom Ditch	MN. .... Managed Roadway	R.F. .... Rock Fragments	T or TL ..... Traverse Line
BRG. .... Bearing	F.H. .... Fire Hydrant	M.S.E. .... Mechanically Stabilized Earth	RT. .... Right	T.M. .... Top of Manhole
C.C. .... Center of Curve	F.O. .... Fiber Optic	N ..... North	RW or RW ..... Right of Way	T.O.F. .... Top of Footing
CATV ..... Cable Television	F.S. .... Full Super Elevation	NB ..... Northbound	R.C.P. .... Reinforced Cement Pipe	TRAV. .... Traverse
C.B.R. .... California Bearing Ratio	FWD. .... Forward	NE ..... Northeast	R.C.C.P. .... Reinforced Cement Concrete Pipe	TS ..... Temporary Swale
C.J. .... Contraction Joint	G ..... Gas	NO. .... Number	R.Q.D. .... Rock Quality Designation	T.S. .... Top of Slab
C or CL ..... Centerline	GL ..... Gutterline	NP ..... Non-Plastic	R.M. .... Rootmat	T.S. .... Topsoil
CL ..... Class or Clear	GP ..... General Purpose Roadway	N.T.S. .... Not To Scale	S ..... South	TYP. .... Typical
CLF ..... Chainlink Fence	G.V. .... Gas Valve	O.C. .... On Center	SAN. .... Sanitary Sewer	U.D. .... Under Drain
CMP ..... Corrugated Metal Pipe	H.B. .... Handbox	OH ..... Overhead	SB or SB ..... Southbound	U.G. .... Underground
C.O. .... Cleanout	H.D.P. .... High Density Polyethylene	OMC ..... Optimum Moisture	S.D. .... Storm Drain	U.O.N. .... Unless Otherwise Noted
COMB. .... Combination	HDWL ..... Headwall	PAV'T ..... Pavement	S.D.D. .... Surface Drain Ditch	U.P. .... Utility Pole
CONC. .... Concrete	H.E.R.C.P. .... Horizontal Elliptical Reinforced Concrete Pipe	PC ..... Point of Curvature	SE ..... Super Elevation	USC ..... Unified Soil Classification
CONSTR. .... Construction	H.P. .... High Point	PCC ..... Point of Compound Curvature	SF ..... Silt Fence	USDA ..... United States Department of Agriculture
COR. .... Corner	H.S.D. .... Headlight Sight Distance	PC ..... Point of Crown	S.F. .... Square Feet	VCL ..... Vertical Clearance
CORR. .... Correction	IN ..... Inch	PGE ..... Profile Grade Elevation	SHLDR. .... Shoulder	V.C.L. .... Vertical Curve Length
C.Y. .... Cubic Yard	I.S.T ..... Inlet Sediment Trap	P.G.L. .... Profile Grade Line	SHA ..... State Highway Administration	W ..... Water
DC ..... Degree of Curve	INV. .... Invert	PGL ..... Profile Ground Line	SHA MB ..... State Highway Administration Micro Bio	W ..... West
D.H.V. .... Design Hourly Volume	J.B. .... Junction Box	P ..... Plate	SHT. .... Sheet	W.B. .... Westbound
D.I. .... Drop Inlet	K ..... K Inlet	PR ..... Point of Rotation	S.P.P. .... Structural Plate Pipe	WB ..... Wetland Buffer
DIA. .... Diameter	L ..... Length	P.I. .... Plasticity Index	S.P.T. .... Standard Penetration Testing	WM. .... Water Meter
D.O. .... Double Opening	L.F. .... Linear Feet	PJ ..... Point of Intersection	S.S. .... Stainless Steel	W.S. .... Wrapped Steel
D.S. .... Design Speed		POC ..... Point On Curve	SSD ..... Stopping Sight Distance	
DWG. .... Drawing		POT ..... Point On Tangent	SSF ..... Super Silt Fence	


DESIGN TRAFFIC DATA

ROADWAY	MD 355 (ROCKVILLE PIKE)	
CONTROLS / YEARS	2022	2042
AVERAGE DAILY TRAFFIC (A.D.T.)	XX,XXX	XX,XXX
DESIGN HOURLY VOLUME (D.H.V.)	XXXX	XXXX
DIRECTIONAL DISTRIBUTION	XXXX	XXXX
% TRUCKS - A.D.T.	2	2
% TRUCKS - D.H.V.	2	2
DESIGN SPEED M. P. H.	45 M. P. H.	
FUNCTIONAL CLASSIFICATION	ARTERIAL	
CONTROL OF ACCESS	NONE	
INTENSITY OF DEVELOPMENT	URBAN	
TERRAIN	ROLLING	
ANTICIPATED POSTED SPEED	40 M. P. H.	
ROADWAY	OLD GEORGETOWN ROAD (MD 187)	
CONTROLS / YEARS	2022	2042
AVERAGE DAILY TRAFFIC (A.D.T.)	22,000	27,125
DESIGN HOURLY VOLUME (D.H.V.)	XXXX	XXXX
DIRECTIONAL DISTRIBUTION	XXXX	XXXX
% TRUCKS - A.D.T.	2	2
% TRUCKS - D.H.V.	2	2
DESIGN SPEED M. P. H.	35 M. P. H.	
FUNCTIONAL CLASSIFICATION	ARTERIAL	
CONTROL OF ACCESS	PARTIAL	
INTENSITY OF DEVELOPMENT	URBAN	
TERRAIN	ROLLING	
ANTICIPATED POSTED SPEED	30 M. P. H.	

SYMBOLS

EXISTING RIGHT OF WAY LINE .....	-----	LIMIT OF DISTURBANCE .....	----- LOD -----
PROPOSED RIGHT OF WAY LINE .....	=====	SILT FENCE .....	----- SF -----
PROPOSED TRAFFIC BARRIER .....	=====	SUPER SILT FENCE .....	----- SSF -----
EXISTING TRAFFIC BARRIER .....	=====	DIVERSION FENCE .....	----- DF -----
EXISTING WOOD FENCE LINE .....	=====	STONE CHECK DAM .....	===== CD =====
EXISTING CHAIN LINK FENCE LINE .....	=====	TEMPORARY STONE OUTLET STRUCTURE .....	===== TSOS =====
BASE OR SURVEY LINE .....	=====	TEMPORARY GABION OUTLET STRUCTURE .....	===== TGOS =====
EXISTING FIRE HYDRANT .....	=====	AT-GRADE INLET PROTECTION .....	===== AGIP =====
PROPOSED STORM DRAIN .....	=====	CURB INLET PROTECTION .....	===== CIP =====
PROPOSED STORM DRAIN INLET .....	=====	MEDIAN INLET PROTECTION .....	===== MIP =====
PROPOSED STORM DRAIN MANHOLE .....	=====	STANDARD INLET PROTECTION .....	===== SIP =====
EXISTING STORM DRAIN .....	=====	COMBINATION INLET PROTECTION .....	===== COLIP =====
EXISTING INLET .....	=====	STABILIZED CONSTRUCTION ENTRANCE .....	===== SCE =====
EXISTING UTILITY POLE .....	=====	PROPOSED UTILITY POLE .....	=====
EXISTING TREE .....	=====	PROPOSED UTILITY CONDUIT .....	=====
EXISTING TREE LINE .....	=====	PROPOSED UTILITY VAULT .....	=====
CUT SLOPE .....	=====	EXISTING GAS .....	===== G =====
FILL SLOPE .....	=====	EXISTING WATER .....	===== W =====
STREET LIGHT .....	=====	EXISTING SEWER .....	===== SS -----
STREET LIGHT HANDBOX .....	=====	EXISTING FIBER OPTIC .....	===== FO -----
STREET LIGHT CONDUIT .....	=====		
EXISTING CONTOUR (MINOR) .....	=====		
EXISTING CONTOUR (MAJOR) .....	=====		

GN-01



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NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL  
SEE TITLE SHEET FOR SIGNATURES  
Chief, Design Section  
APPROVED  
SEE TITLE SHEET FOR SIGNATURES  
Chief, Division of Transportation Engineering  
Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

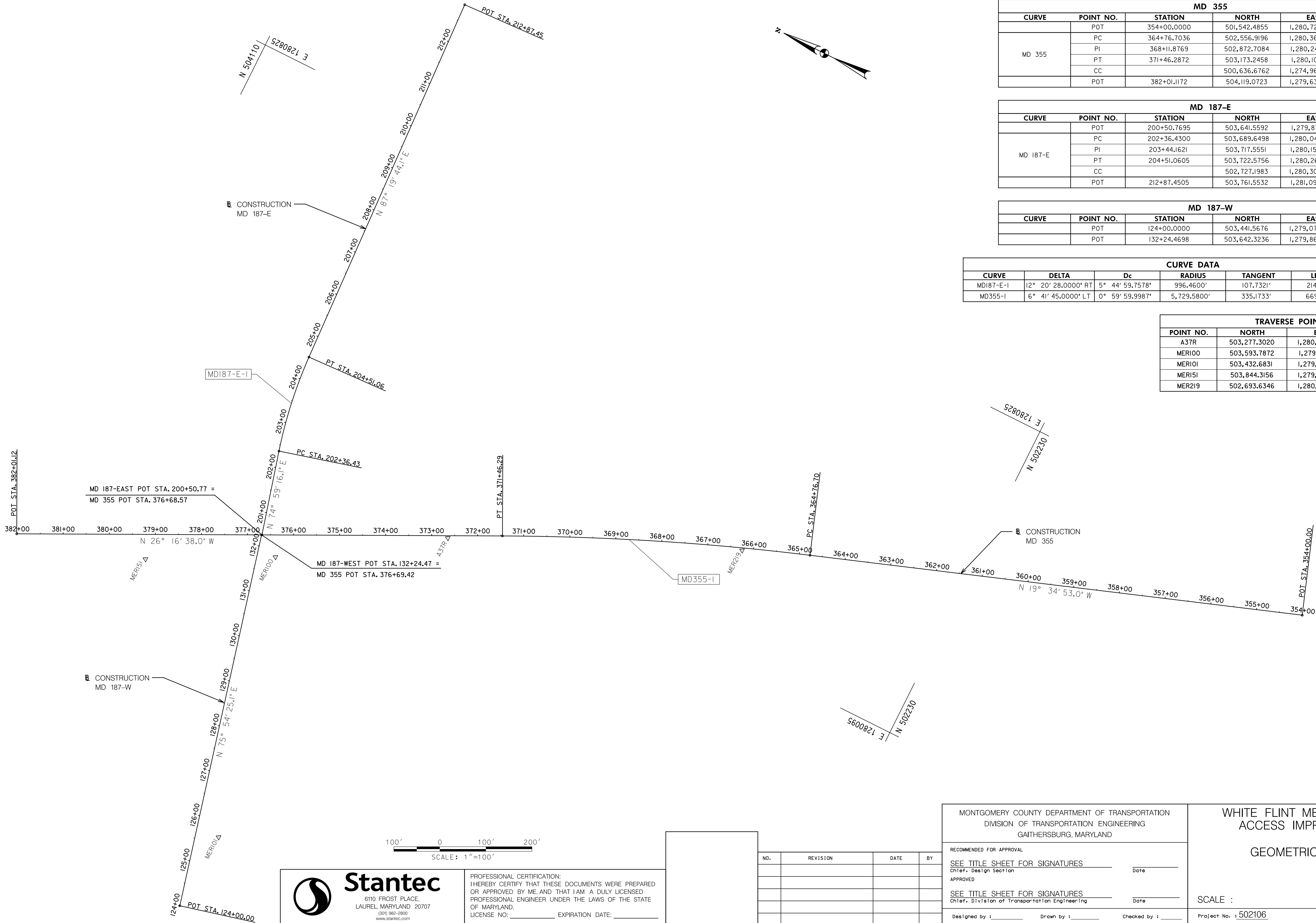
DESIGN TRAFFIC DATA, GENERAL  
NOTES, SYMBOLS & ABBREVIATIONS

SCALE : NO SCALE      DATE : JAN 2021

Project No. : 502106      SHEET 02 of 38



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MD 355					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
MD 355	POT	354+00.0000	501,542.4855	1,280,722.8952	N 19° 34' 53.00" W
	PC	364+76.7036	502,556.9196	1,280,362.0427	N 19° 34' 53.00" W
	PI	368+11.8769	502,872.7084	1,280,249.7109	N 26° 16' 38.00" W
	PT	371+46.2872	503,173.2458	1,280,101.3247	N 26° 16' 38.00" W
	CC		500,636.6762	1,274,963.8252	
	POT	382+01.1172	504,119.0723	1,279,634.3359	N 26° 16' 38.00" W

MD 187-E					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
MD 187-E	POT	200+50.7695	503,641.5592	1,279,870.1014	N 74° 59' 16.13" E
	PC	202+36.4300	503,689.6498	1,280,049.4255	N 74° 59' 16.13" E
	PI	203+44.1621	503,717.5551	1,280,153.4808	
	PT	204+51.0605	503,722.5756	1,280,261.0958	N 87° 19' 44.13" E
	CC		502,727.1983	1,280,307.5330	
	POT	212+87.4505	503,761.5532	1,281,096.5771	N 87° 19' 44.13" E

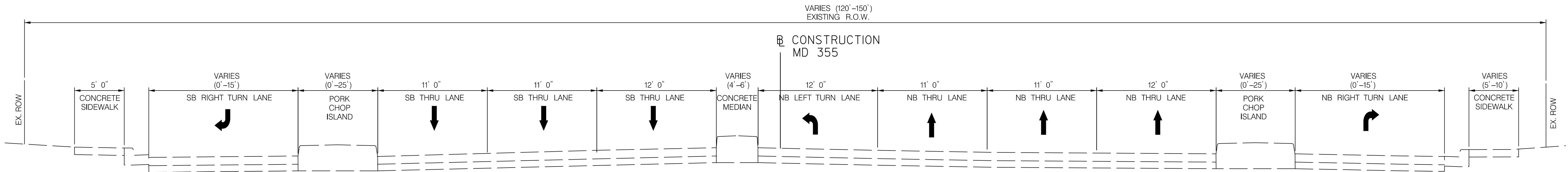
MD 187-W					
CURVE	POINT NO.	STATION	NORTH	EAST	BEARING
	POT	124+00.0000	503,441.5676	1,279,070.0694	N 75° 54' 25.08" E
	POT	132+24.4698	503,642.3236	1,279,869.7240	

CURVE DATA						
CURVE	DELTA	Dc	RADIUS	TANGENT	LENGTH	EXTERNAL
MD187-E-I	12° 20' 28.0000" RT	5° 44' 59.7578"	996.4600'	107.7321'	214.6305'	5.8068'
MD355-I	6° 41' 45.0000" LT	0° 59' 59.9987"	5,729.5800'	335.1733'	669.5836'	9.7952'

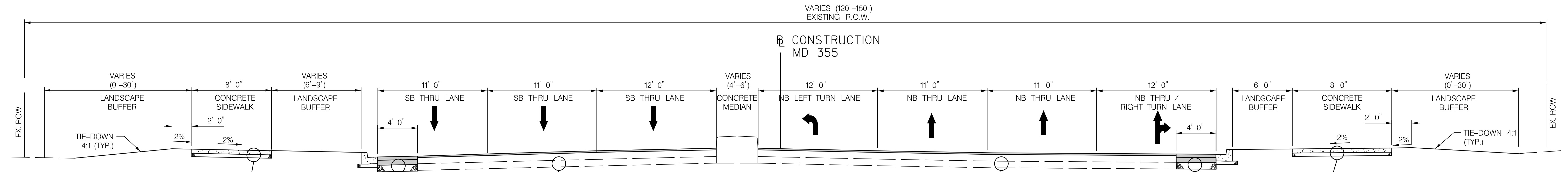
TRAVERSE POINTS			
POINT NO.	NORTH	EAST	ELEVATION
A37R	503,277.3020	1,280,044.1760	402.65
MER100	503,593.7872	1,279,840.1414	399.62
MER101	503,432.6831	1,279,240.9519	384.56
MER151	503,844.3156	1,279,710.0597	398.80
MER219	502,693.6346	1,280,305.5218	405.88



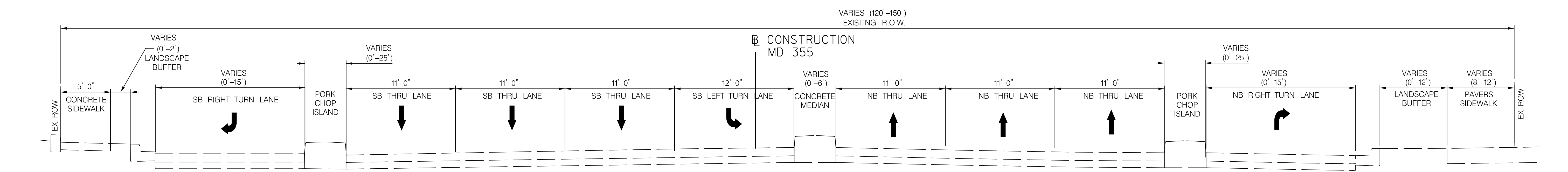
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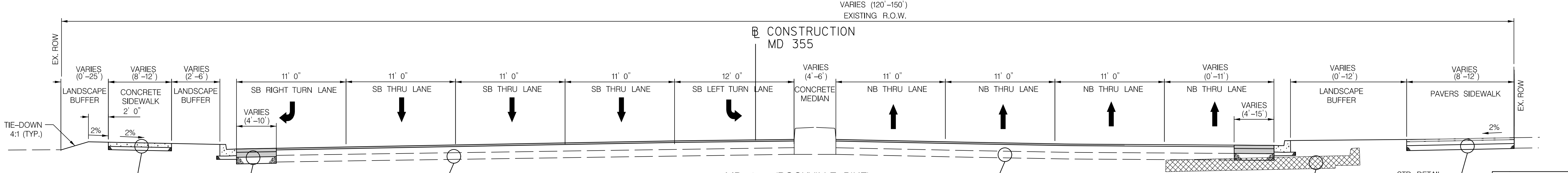
MD 355 (ROCKVILLE PIKE)  
EXISTING CONDITIONS  
STA. 374+24.85 TO 376+25.00



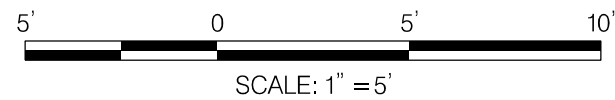
MD 355 (ROCKVILLE PIKE)  
PROPOSED CONDITIONS  
STA. 374+24.85 TO 376+25.00



MD 355 (ROCKVILLE PIKE)  
EXISTING CONDITIONS  
STA. 377+00.00 TO 378+00.00



MD 355 (ROCKVILLE PIKE)  
PROPOSED CONDITIONS  
STA. 377+00.00 TO 378+00.00



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OR APPROVED BY ME AND THAT I AM A DULY LICENSED  
PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE  
OF MARYLAND.  
LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

NO.	REVISION	DATE	BY

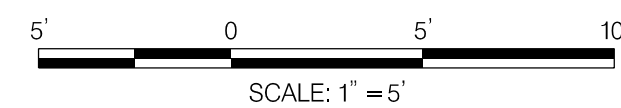
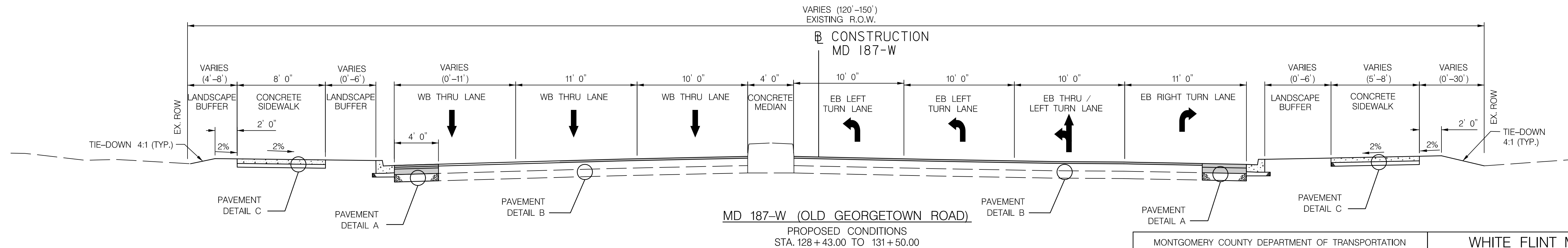
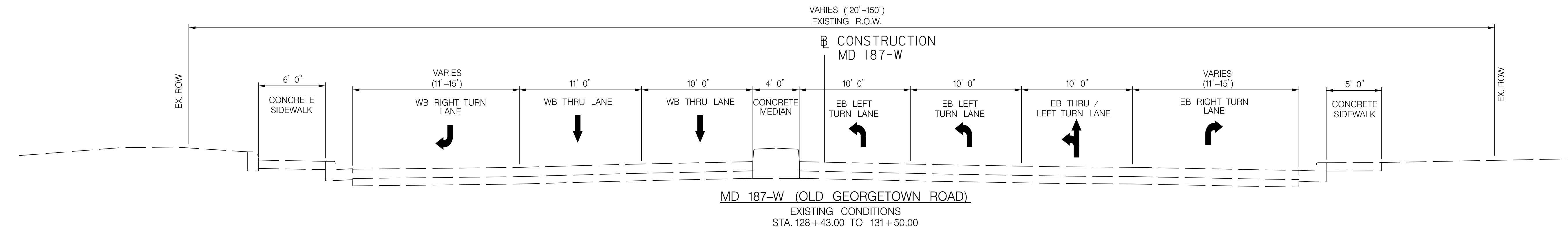
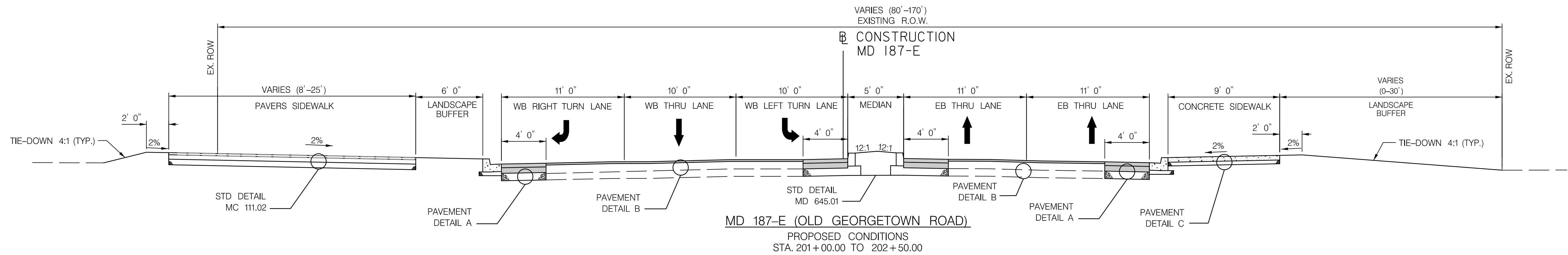
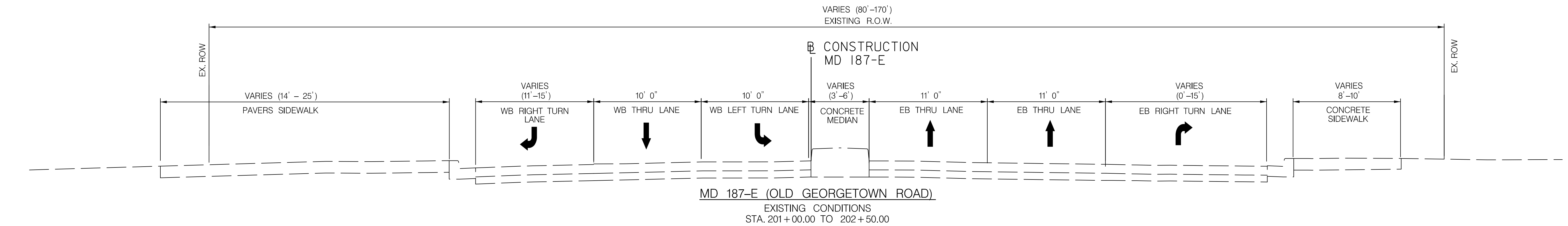
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
TYPICAL SECTIONS	
SCALE : 1" = 5'	DATE : JAN 2021
Project No. : <u>502106</u>	SHEET <u>04</u> of <u>38</u>

TS-01



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LICENSE NO: 28255 EXPIRATION DATE: 06-30-2022

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GAITHERSBURG, MARYLAND

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Date

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WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

TYPICAL SECTIONS

SCALE : 1" = 5'

DATE : JAN 2021

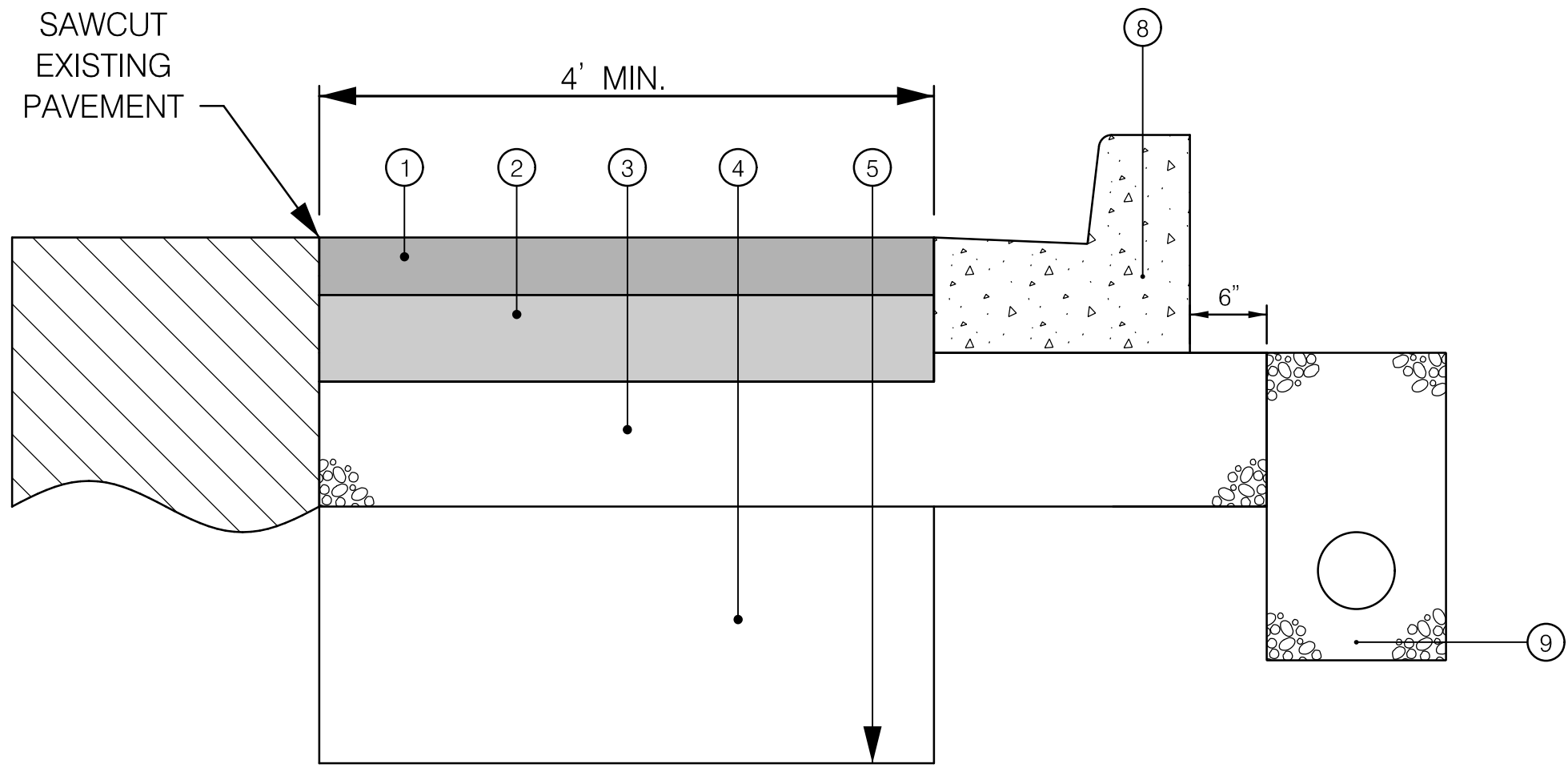
Project No. : 502106

SHEET 05 of 38

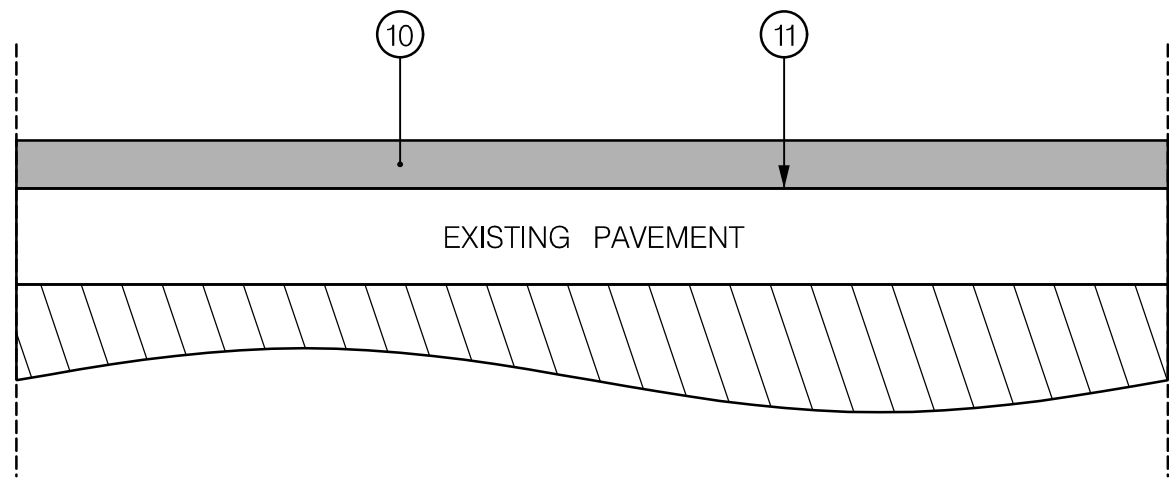
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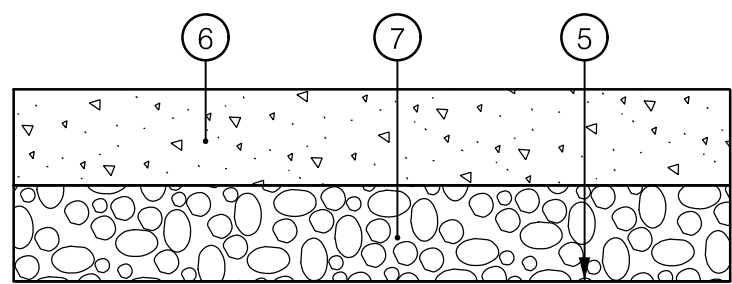
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DETAIL A  
FULL DEPTH PAVEMENT  
ROCKVILLE PIKE (MD 355)  
OLD GEORGETOWN ROAD (MD 187)



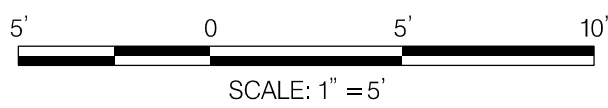
DETAIL B  
MILL & OVERLAY  
ROCKVILLE PIKE (MD 355)  
OLD GEORGETOWN ROAD (MD 187)




DETAIL C  
CONCRETE SIDEWALK  
ROCKVILLE PIKE (MD 355)  
OLD GEORGETOWN ROAD (MD 187)

PAVEMENT LEGEND

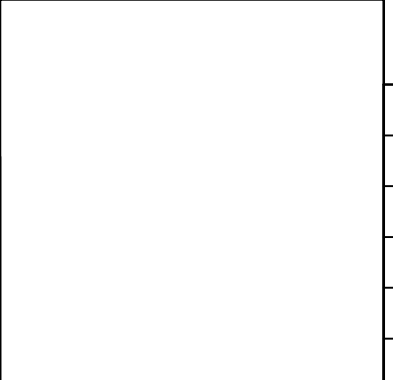
- ① 4" SUPERPAVE ASPHALT MIX 12.5 MM FOR SURFACE, PG 64S-22, LEVEL 2 (TWO 2 INCH LIFTS)
- ② 6" SUPERPAVE ASPHALT MIX 25.0 MM FOR BASE, PG 64S-22, LEVEL 2 (TWO 3 INCH LIFTS)
- ③ 8" GRADED AGGREGATE BASE COURSE (ONE 8 INCH LIFT)
- ④ 3' SELECT BORROW WITH CBR OF MINIMUM 7
- ⑤ TOP OF SUBGRADE AND LIMIT OF CLASS 2 EXCAVATION
- ⑥ 5" CONCRETE (MDSHA STD. MD 655.01)
- ⑦ 4" GRADED AGGREGATE BASE
- ⑧ COMBINATION CONCRETE CURB AND GUTTER, TYPE D, 8 INCH MINIMUM DEPTH (MDSHA STD. MD 620.02-01)
- ⑨ LONGITUDINAL UNDERDRAIN, MDSHA STD. MD 387.11-01
- ⑩ 2" SUPERPAVE ASPHALT MIX 12.5 MM FOR SURFACE, PG 64S-22, LEVEL 2
- ⑪ TOP OF EXISTING PAVEMENT SURFACE AFTER 2 INCH FINE MILLING





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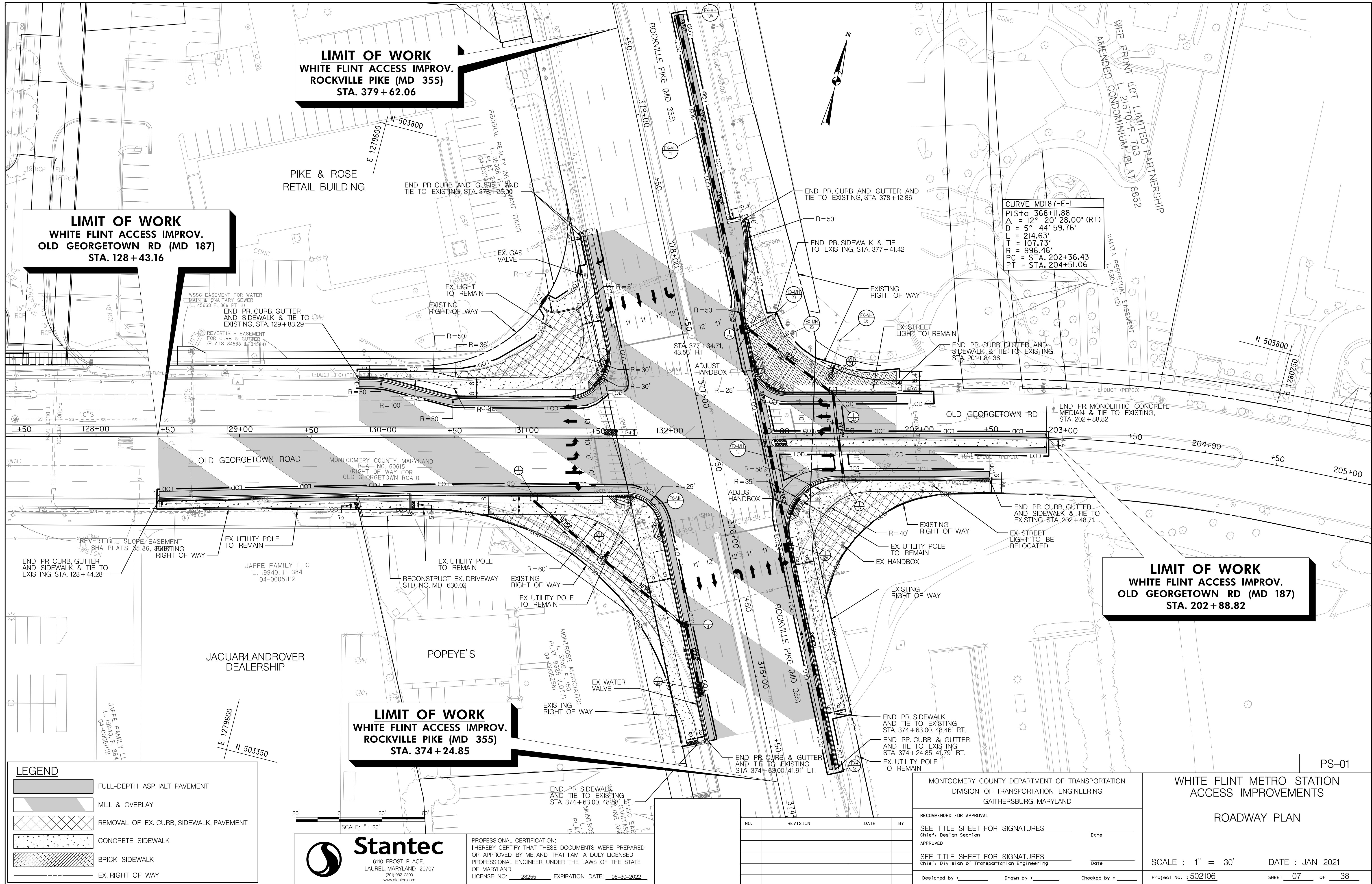
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DT-01	
WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
PAVING DETAILS	
SCALE :	DATE : JAN 2021
Project No. : <u>502106</u>	SHEET <u>06</u> of <u>38</u>



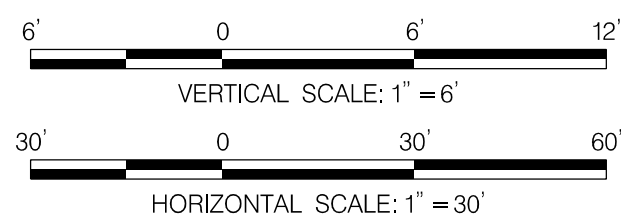
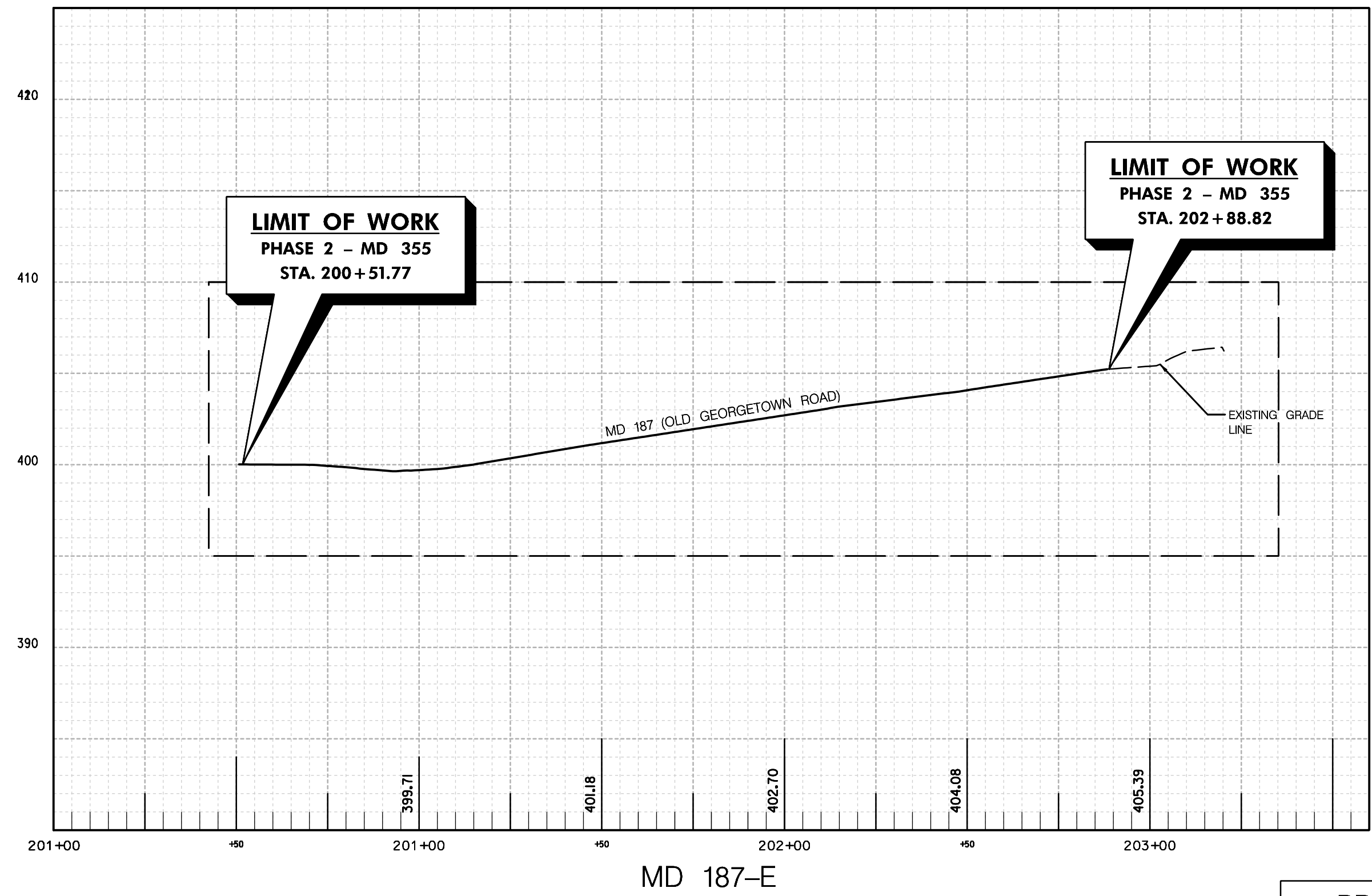
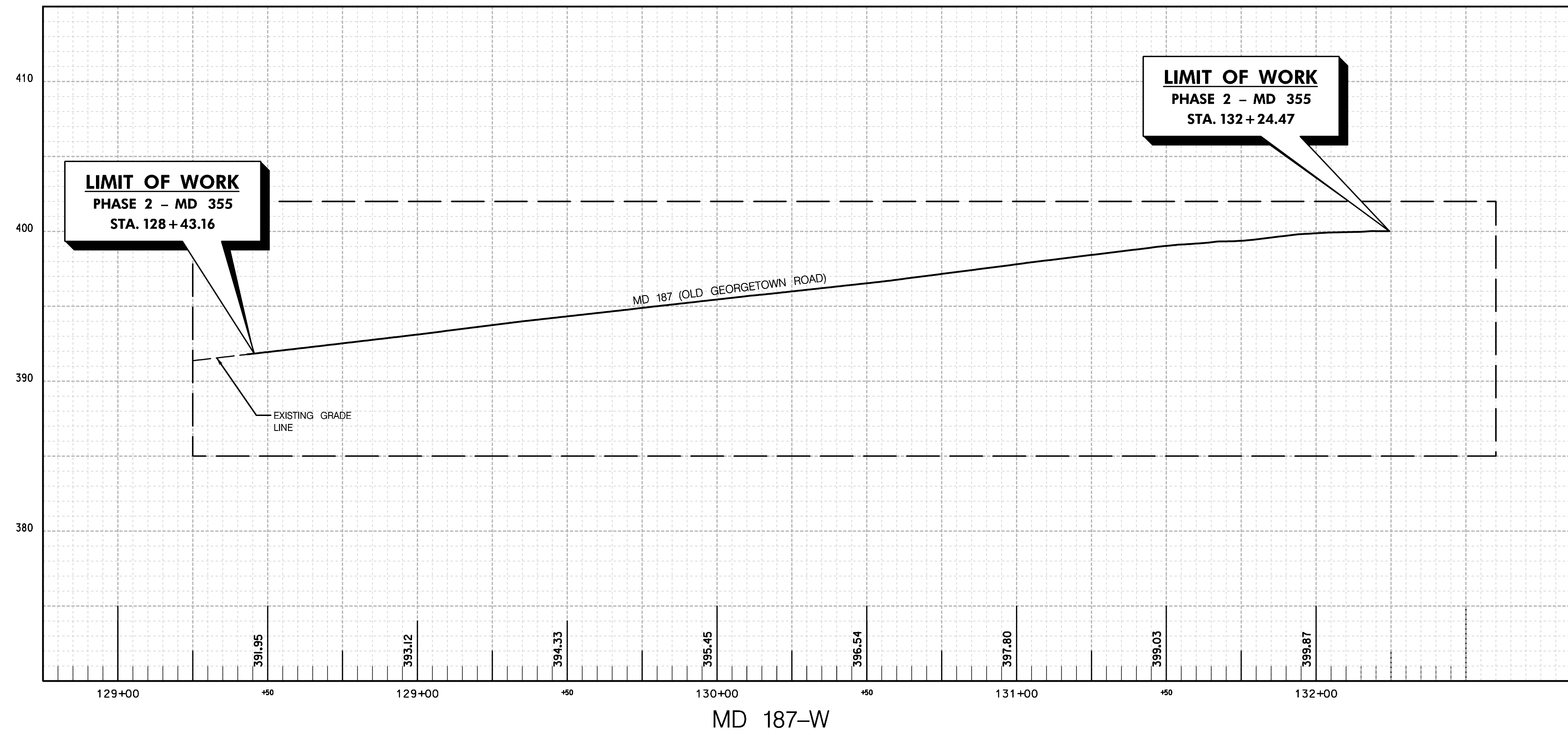
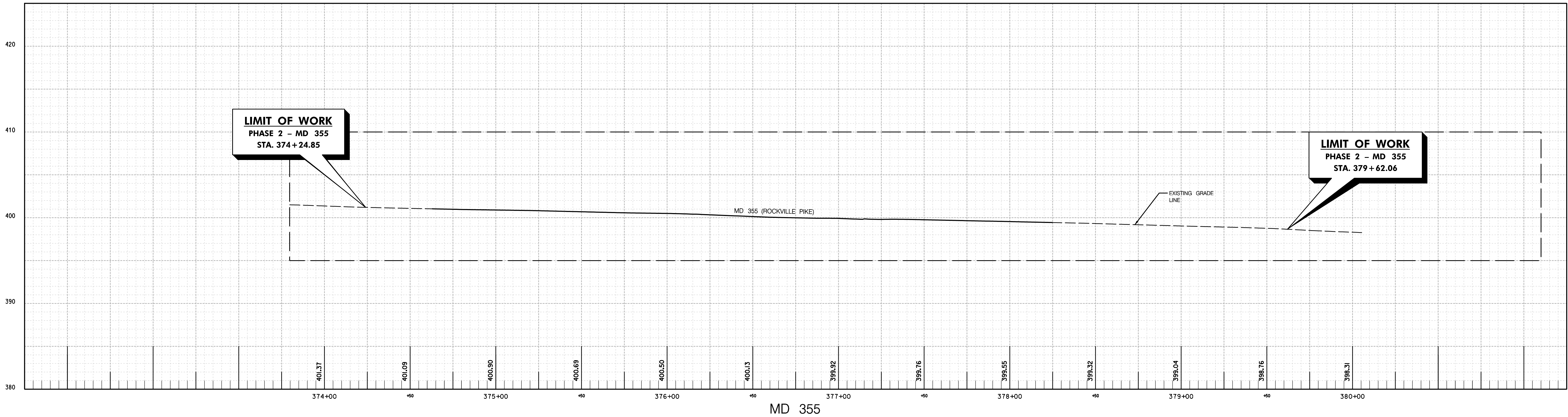
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PS-01



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WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

ROADWAY CENTERLINE PROFILE

SCALE : H 1" = 30' ; V 1" = 6' DATE : JAN 2021

Project No. : 502106 SHEET 08 of 38

PR-01



Thursday, January 21, 2021 AT 04:49 PM  
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STRUCTURE SCHEDULE						
STRUCTURE	STATION	OFFSET	TYPE	TOP ELEV.	INV. OUT	STANDARD
MH-2	376+01.89'	87.18' LT	MANHOLE	398.70	394.81	MD 383.11
I-3	131+04.69'	40.19' RT	10" COG INLET	397.16	395.32	MD 374.51
I-4	375+45.56'	40.13' LT	SINGLE WR INLET	400.24	395.26	MD 374.06
I-4A	374+99.14'	39.63' LT	TRIPLE WR INLET	400.33	396.31	MD 374.08
I-IIA	377+40.18'	44.49' RT	STD. WRM INLET	399.05	395.67	MD 374.04
I-12A	375+84.85'	42.93' RT	STD. WRM INLET	399.89	396.69	MD 374.04
MH-24	201+38.97'	43.40' LT	MANHOLE	400.25	395.74	MD 383.11
I-24A	201+39.64'	31.91' LT	10" COG INLET	400.36	396.12	MD 374.51
I-25	201+46.12'	29.16' RT	10" COG INLET	400.12	396.52	MD 374.51

PIPE SCHEDULE						
STRUCTURE TO STRUCTURE	SIZE	TYPE	LENGTH	INV. IN	INV. OUT	
I-4A	I-4	18"	RCP	40'	396.31	396.11
I-4	MH-2	18"	RCP	70'	395.26	394.91
I-3	MH-2	18"	RCP	61'	395.32	395.01
EX-I-13	I-12A	24"	RCP	155'	397.66	396.73
I-12A	EX-MH-12	24"	RCP	60'	396.69	396.34
EX-MH-12	I-IIA	24"	RCP	88'	396.29	395.71
I-IIA	EX-MH-II	24"	RCP	136'	395.67	394.78
EX-MH-II	EX-MH-10A	24"	RCP	83'	394.84	393.83
I-25	I-24A	18"	RCP	59'	396.52	396.22
I-24A	I-IIA	18"	RCP	71'	396.12	395.77



SWM Concept Summary Table	
Contact Information for Design Engineer (for technical issues): Rand Postell - (301) 982-2851 or Khien Nguyen - (240) 542-3101	
General Property Information:	
SMH Pending	
Type of Concept: SWM Concept	
MNCP&PC Process/No: n/a	
Property Address: Intersection of Rockville Pike and Old Georgetown Road	
Property Legal Description: n/a (ROW)	
Property Size (ac./sq.ft.): 3.69 ac / 160,807 sq. ft.	
Total Concept Area (ac./sq.ft.): 1.41 ac / 61,512 sq. ft.	
Zoning: n/a (ROW)	
Watershed and Stream Class: Cabin John Creek / Class I-P	
Special Protection Area: n/a	
100 YR Floodplain: n/a	
Ex. % Impervious/Redevelopment or New Development: Redevelopment, Ex. % Imp = 81% >= 40%; Ex. Imp = 49,748 sq. ft.	
SWM Summary:	
Target P <sub>2</sub> /Proposed P <sub>2</sub> : 1.8 in / 0 in	
Target ESDv/Provided ESDv: 6.274 cu.ft. / 0 cu.ft.	
ESD Measures: none, n/a	
Structural Storage Required/Provided: 0 cu.ft. / 0 cu.ft.	
Structural Measures: none, n/a	
Waiver Request/QL/CN/Both: Yes, QL	
Provided ESDv + Structural Storage Provided + Requested to be Waived = 6.274 cu.ft.	
Other Information:	

NOTE:

NO SWM IS PROPOSED FOR THIS PROJECT, PLEASE REFER TO SWM WAIVER AND SWM REPORT.



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Chief, Design Section

APPROVED

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Chief, Division of Transportation Engineering

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Drawn by :

Checked by :

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

DRAINAGE & STORMWATER  
MANAGEMENT PLAN

SCALE : 1" = 30'

DATE : JAN 2021

Project No. : 502106

SHEET 09 of 38

DD-01

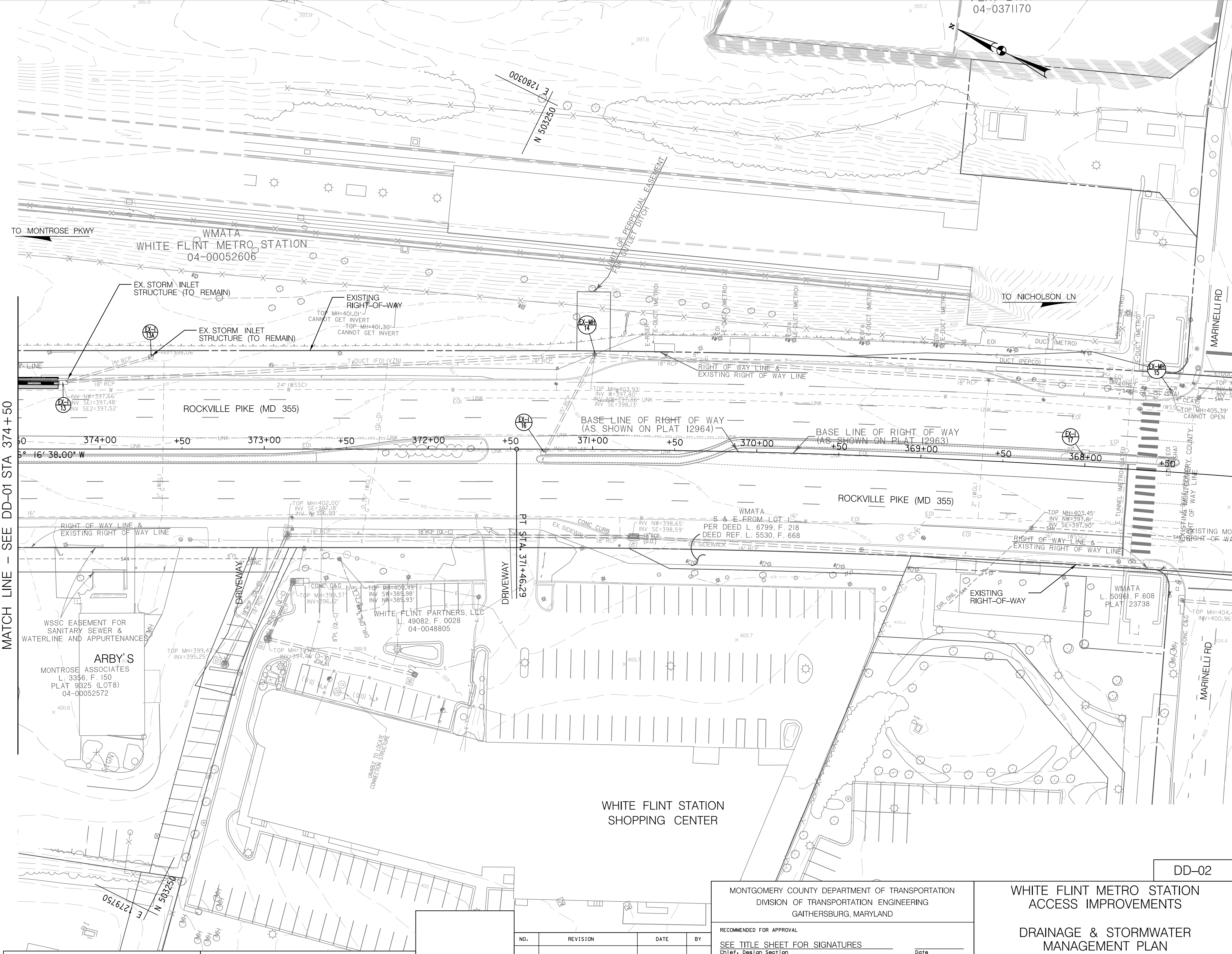
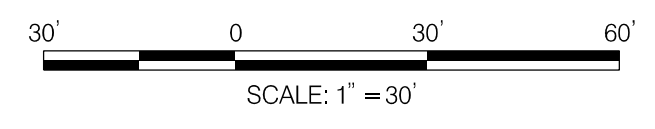


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NOTES:  
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SWM WAIVER AND SWM REPORT.

LEGEND

- PROP. CONCRETE
- PROP. MILL & OVERLAY
- PROP. FULL DEPTH PAVEMENT
- PROP. ASPHALT CYCLE TRACK
- PROP. PAVEMENT/SIDEWALK REMOVAL
- PROP. BRICK SIDEWALK
- PROP. STORM DRAIN PIPE
- PROP. CURB INLET
- PROP. GRATE INLET
- PROP. COMBINATION INLET
- PROP. MANHOLE



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Date

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DD-02

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

DRAINAGE & STORMWATER  
MANAGEMENT PLAN

SCALE : 1" = 30'      DATE : JAN 2021

Project No. : 502106      SHEET 10 of 38



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NOTES:  
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APPROVED	
SEE TITLE SHEET FOR SIGNATURES Chief, Division of Transportation Engineering	Date
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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
DRAINAGE & STORMWATER MANAGEMENT PLAN	
SCALE : 1" = 30'	DATE : JAN 2021
Project No. : 502106	SHEET 11 of 38

DD-03



Thursday, January 21, 2021 AT 04:55 PM  
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- MONTGOMERY COUNTY GOVERNMENT  
STANDARD EROSION AND SEDIMENT CONTROL NOTES

1.The permittee shall notify the Department of Permitting Services (DPS) forty-eight (48) hours before commencing any land disturbing activity and, unless waived by the Department, shall be required to hold a pre-construction meeting between them or their representative, their engineer and an authorized representative of the Department.

2.The permittee must obtain inspection and approval by DPS at the following points:

A.At the required pre-construction meeting.

B.Following installation of sediment control measures and prior to any other land disturbing activity.

C.During the installation of a sediment basin or stormwater management structure at the required inspection points (see Inspection Checklist on plan). Notification prior to commencing construction is mandatory.

D.Prior to removal or modification of any sediment control structure(s).

E.Prior to final acceptance.

3.The permittee shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by the Department prior to beginning any other land disturbances, shall ensure that all runoff from disturbed areas is directed to the sediment control devices, and shall not remove any erosion or sediment control measure without prior permission from the Department.

4.The permittee shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately.

5.The permittee shall inspect periodically and maintain continuously in effective operating condition, all erosion and sediment control measures until such time as they are removed with prior permission from the Department. The permittee is responsible for immediately repairing or replacing any sediment control measures which have been damaged or removed by the permittee or any other person.

6.Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:

a)Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1); and

b)Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization.

7.The permittee shall apply sod, seed, and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that area. Maintenance shall be performed as necessary to ensure continued stabilization. Active construction areas such as borrow or stockpile areas, roadway improvements, and areas within fifty (50) feet of a building under construction may be exempt from this requirement, provided that erosion and sediment control measures are installed and maintained to protect those areas.

8.Prior to removal of sediment control measures, the permittee shall stabilize all contributory disturbed areas with required soil amendments and topsoil, using sod or an approved permanent seed mixture and an approved anchored mulch. Wood fiber mulch may only be used in seeding season when the slope does not exceed 10% and grading has been done to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, an approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following April 15.

9.The site permit, work, materials, approved SC/SM plans, and test reports shall be available at the site for inspection by duly authorized officials of Montgomery County.

10.Surface drainage flows over unstabilized cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water down slope without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur.

11.Permanent swales or other points of concentrated water flow shall be stabilized within 3 calendar days of establishment with sod or seed with an approved erosion control matting or by other approved stabilization measures.

12.Sediment control devices shall be removed, with permission of the Department, within thirty (30) calendar days following establishment of permanent stabilization in all contributory drainage areas. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.

13.No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lawn maintenance areas or on residential lots. A slope gradient of up to 2:1 will be permitted in non-maintenance areas provided that those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.

14.The permittee shall install a splashblock at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.

15.For finished grading, the permittee shall provide adequate gradients so as to prevent water from standing on the surface of lawns more than twenty-four (24) hours after the end of a rainfall, except in designated drainage courses and swale flow areas, which may drain as long as forty-eight (48) hours after the end of a rainfall.

16.Sediment traps or basins are not permitted within 20 feet of a building which is existing or under construction. No building may be constructed within 20 feet of a sediment trap or basin.

17.All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.

18.The sediment control inspector has the option of requiring additional sediment control measures, as deemed necessary.

19.All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.

20.Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control.

21.Sediment trap(s)/basin(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to the point of one-half (1/2) the wet storage depth of the trap/basin (1/4 the wet storage depth for ST-III) or when required by the sediment control inspector.

22.Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.

23.All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42 inches high, have posts spaced no farther apart than 8 feet, have mesh openings no greater the two inches in width and four inches in height, with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times.

24.No excavation in the areas of existing utilities is permitted unless their location has been determined. Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work.

25.Off-site spoil or borrow areas must have prior approval by DPS.

26.Sediment trap/basin dewatering for cleanout or repair may only be done with the DPS inspector's permission. The inspector must approve the dewatering method for each application. The following methods may be considered:

A.Pump discharge may be directed to another on-site sediment trap or basin, provided it is of sufficient volume and the pump intake is floated to prevent agitation or suction of deposited sediments; or

B.the pump intake may utilize a Removable Pumping Station and must discharge into an undisturbed area through a non-erosive outlet; or

C.the pump intake may be floated and discharge into a Dirt Bag (12 oz. non-woven fabric), or approved equivalent, located in an undisturbed buffer area.

Remember: Dewatering operation and method must have prior approval by the DPS inspector.

27.The permittee must notify the Department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.

28.Topsoil must be applied to all pervious areas within the limits of disturbance prior to permanent stabilization in accordance with MDE "Standards and Specifications for Soil Preparation, Topsoiling, and Soil Amendments".

STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS

Definition
The process of preparing the soils to sustain adequate vegetative stabilization.
Purpose
To provide a suitable soil medium for vegetative growth.
Conditions Where Practice Applies
Where vegetative stabilization is to be established.
Criteria

A. Soil Preparation

(1) Temporary stabilization

(a) Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

(b) Apply fertilizer and lime as prescribed on these plans.

(c) Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.

(2) Permanent Stabilization

(a) A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:

(i) Soil pH between 6.0 and 7.0.

(ii) Soluble salts less than 500 parts per million (ppm), than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: If lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.

(iv) Soil contains 1.5 percent minimum organic matter by weight.

(v) Soil contains sufficient pore space to permit adequate root penetration.

(b) Application of amendments or topsoil is required if on-site soils do not meet the above conditions.

(c) Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

(d) Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.

(e) Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loosen and friable. seedbed loosening may be unnecessary on newly disturbed areas.

B. Topsoiling

(1) Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants and/or unacceptable soil gradation.

(2) Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the soil survey published by USDA-NRCS.

(3) Topsoiling is limited to areas having 2:1 for flatter slopes where:

(a) The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

(b) The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

(c) The original soil to be vegetated contains material toxic to plants growth.

(d) The soil is so acidic that treatment with limestone is not feasible.

(4) Areas having slopes steeper than 2:1 require special consideration and design.

(5) Topsoil specifications: soil to be used as topsoil must meet the following criteria:

(a) Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1.5 inches in diameter.

(b) Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sledge, poison ivy, thistle, or others as specified.

(c) Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

(6) Topsoil Application

(a) Erosion and sediment control practices must be maintained when applying topsoil.

(b) Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compacted to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.

(c) Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

C. Soil amendments (fertilizer and lime specifications)

(1) Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.

(2) Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.

(3) Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydrosowing) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.

(4) Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.

(5) Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

SC – ES-01

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WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

EROSION AND SEDIMENT  
CONTROL NOTES

SCALE : 1" = 30' DATE : JAN 2021

Project No. : 502106 SHEET 12 of 38



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STANDARD SYMBOLS

AT-GRADE INLET PROTECTION		ROCK OUTLET PROTECTION II	
BAFFLE BOARDS		ROCK OUTLET PROTECTION III	
CATCH BASIN INSERT		SILT FENCE	
CLEAR WATER DIVERSION PIPE	 <small>NOTE: DESIGNATION CWD-12 REFERS TO CLEAR WATER DIVERSION WITH 12 INCH PIPE.</small>	SILT FENCE ON PAVEMENT	
COMBINATION INLET PROTECTION		SOD	
CURB INLET PROTECTION		STABILIZED CONSTRUCTION ENTRANCE	
DIVERSION FENCE		STANDARD INLET PROTECTION	
EARTH DIKE	 <small>PLACE DESIGNATION (A-1, B-2, etc.) ON FLOW CHANNEL SIDE OF DIKE.</small>	STOCKPILE AREA	
EMERGENCY SPILLWAY		STONE CHECK DAM	
FILTER BAG		STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	
FILTER BERM		SUBSURFACE DRAINS	
FILTER LOG	 <small>NOTE: DESIGNATION FL-18 REFERS TO FILTER LOG WITH 18 INCH DIAMETER.</small>	SUMP PIT	
GABION INFLOW PROTECTION		SUPER SILT FENCE	
GABION INLET PROTECTION		TEMPORARY ACCESS CULVERT	
LIMIT OF DISTURBANCE		TEMPORARY ASPHALT BERM	
MEDIAN INLET PROTECTION		TEMPORARY BARRIER DIVERSION	
MEDIAN SUMP INLET PROTECTION		TEMPORARY GABION OUTLET STRUCTURE	
MOUNTABLE BERM		TEMPORARY SOIL STABILIZATION MATTING-TYPE A	
PERIMETER DIKE/SWALE		TEMPORARY SOIL STABILIZATION MATTING-TYPE E	
PERMANENT SOIL STABILIZATION MATTING-TYPE B		TEMPORARY SOIL STABILIZATION MATTING-TYPE D	
PERMANENT SOIL STABILIZATION MATTING-TYPE C		TEMPORARY STONE OUTLET STRUCTURE	
PIPE OUTLET SEDIMENT TRAP ST I		TEMPORARY SWALE	 <small>PLACE DESIGNATION (A-1, B-2, etc.) ON FLOW CHANNEL SIDE OF SWALE.</small>
PIPE SLOPE DRAIN	 <small>NOTE: DESIGNATION PSD-12 REFERS TO PIPE SLOPE DRAIN WITH 12 IN PIPE.</small>	WASH RACK OPTION	
PLUNGE POOL		CHESAPEAKE BAY CRITICAL AREA	
PORTABLE SEDIMENT TANK		DRAINAGE BOUNDARY	
REMOVABLE PUMPING STATION		EXISTING CONTOURS	
RIPRAP INFLOW PROTECTION		PROPOSED CONTOURS	
RIPRAP OUTLET SEDIMENT TRAP ST III		TREE PROTECTION FENCE	
ROCK OUTLET PROTECTION I		WETLAND	
		WETLAND BUFFER	
		100-YEAR FLOODPLAIN	

GENERAL NOTES

1. Prior to clearing of trees, installing sediment control measures, or grading, a preconstruction meeting must be conducted on-site with the Montgomery County Department of Permitting Services (MCDPS) sediment control inspector (240) 777-0311 (48 hours notice), the Owners representative, and the site Engineer. In order for the meeting to occur, the applicant must provide one paper set of approved sediment control plans to the MCDPS sediment control inspector at the preconstruction meeting. If no plans are provided, the meeting shall not occur and will need to be rescheduled prior to commencing any work.
2. The limits of disturbance must be field marked prior to clearing of trees, installation of sediment control measures, construction, or other land disturbing activities.
3. Clear and grade for installation of sediment control devices.
3. Install sediment control devices.
4. Once the sediment control devices are installed, the permittee shall obtain written approval from the MCDPS inspector before proceeding with any additional clearing, grubbing, or grading.
5. Construction can occur coincidentally or any order the contractor chooses as long as approvals are in place.
6. Remove water that pools within any area of excavation with sump pit, pump, and filter bag.
7. Weather should be monitored to ensure construction of proposed drainage facilities are done in a day with no expected rainfall. Proposed drainage facilities should be constructed within one work day.
8. Site should be stabilized at the end of each work day.
9. Obtain written approval from MCDPS inspector, prior to the removal of any sediment control devices for each sequence.
10. Plant and vegetate site as shown on Landscape Plan.
11. Stabilize site and get written approval from MCDPS inspector to remove remaining sediment control devices.

NOTE 1:

All sequences should call for the permittee to obtain written approval from MCDPS inspector, prior to the removal of any sediment control device.

NOTE 2:

Any site that has a proposed storm drain diversion proposed should have its Sequence of Construction state the following:

- 1) The construction of the diversion in the storm drain construction step; and
- 2) once the drainage area is stabilized, the storm drain system must be flushed, any temporary pipes removed, and the construction or unblocking of any permanent pipes.

SEQUENCE OF CONSTRUCTION

1. Prior to clearing of trees, installing sediment control measures, or grading, a preconstruction meeting must be conducted on-site with the Montgomery County Department of Permitting Services (MCDPS) sediment control inspector (240) 777-0311 (48 hours notice), the Owners representative, and the site Engineer. In order for the meeting to occur, the applicant must provide one paper set of approved sediment control plans to the MCDPS sediment control inspector at the preconstruction meeting. If no plans are provided, the meeting shall not occur and will need to be rescheduled prior to commencing any work.
2. The limits of disturbance must be field marked prior to clearing of trees, installation of sediment control measures, construction, or other land disturbing activities.
3. The permittee must obtain written approval from the MNCPPC inspector, certifying that the limits of disturbance and any tree protection measures are correctly marked and installed prior to commencing and clearing.
4. Clear and grade for installation of sediment control devices.
5. Install sediment control devices.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
19. Permanently stabilize disturbed roadside areas with topsoil, seed and mulch as indicated on the typical sections.
20. Upon final stabilization and written approval from MCDPS inspector, the permittee shall remove the sediment control devices.
21. The permittee shall submit as-built plans for review and approval by MCDPS.


(TO BE INSERTED  
IN NEXT SUBMITTAL)

STORMWATER MANAGEMENT  
CONCEPT APPROVAL  
(RESERVED)

STORMWATER MANAGEMENT  
CONCEPT APPROVAL  
(RESERVED)

SC -

ES-02



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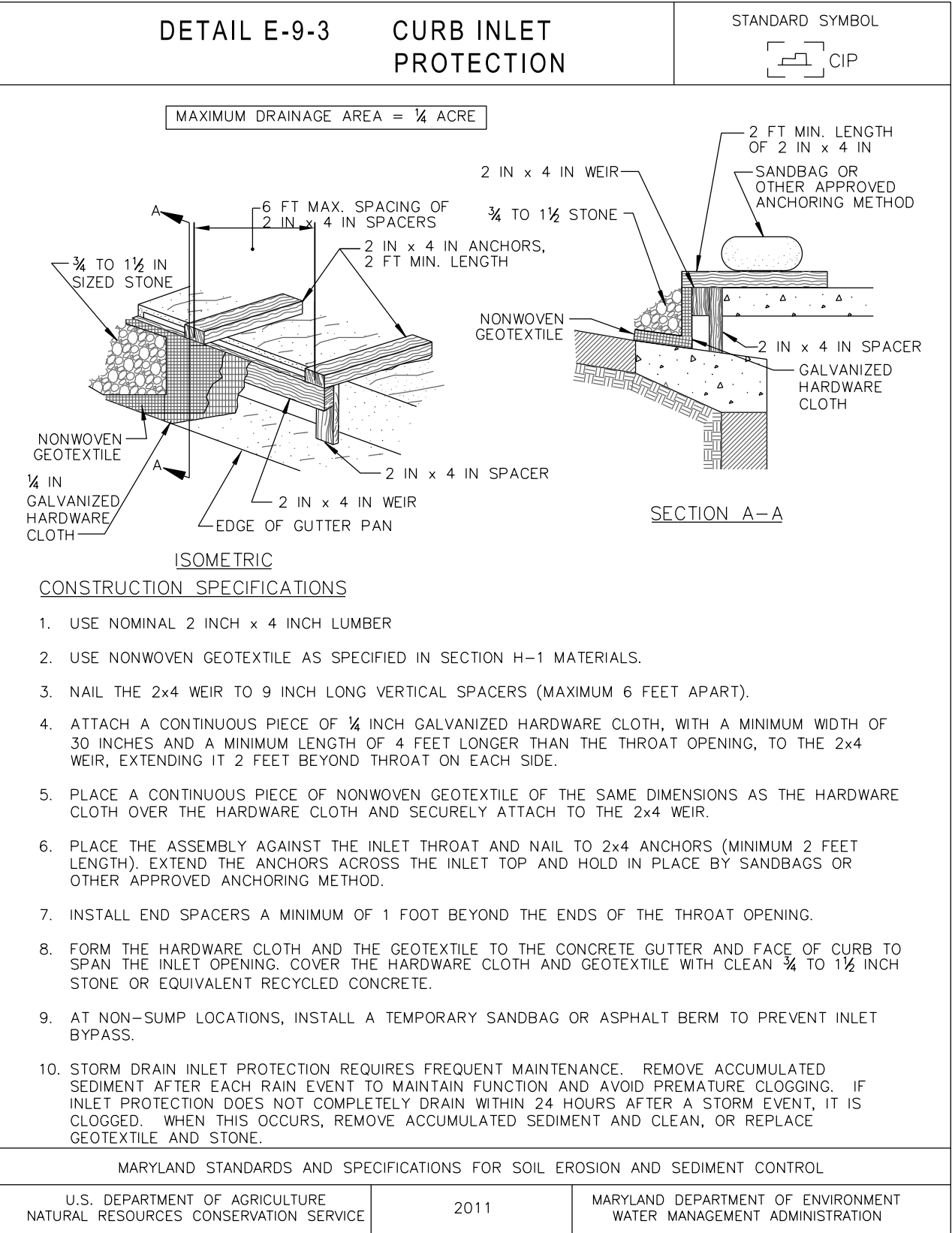
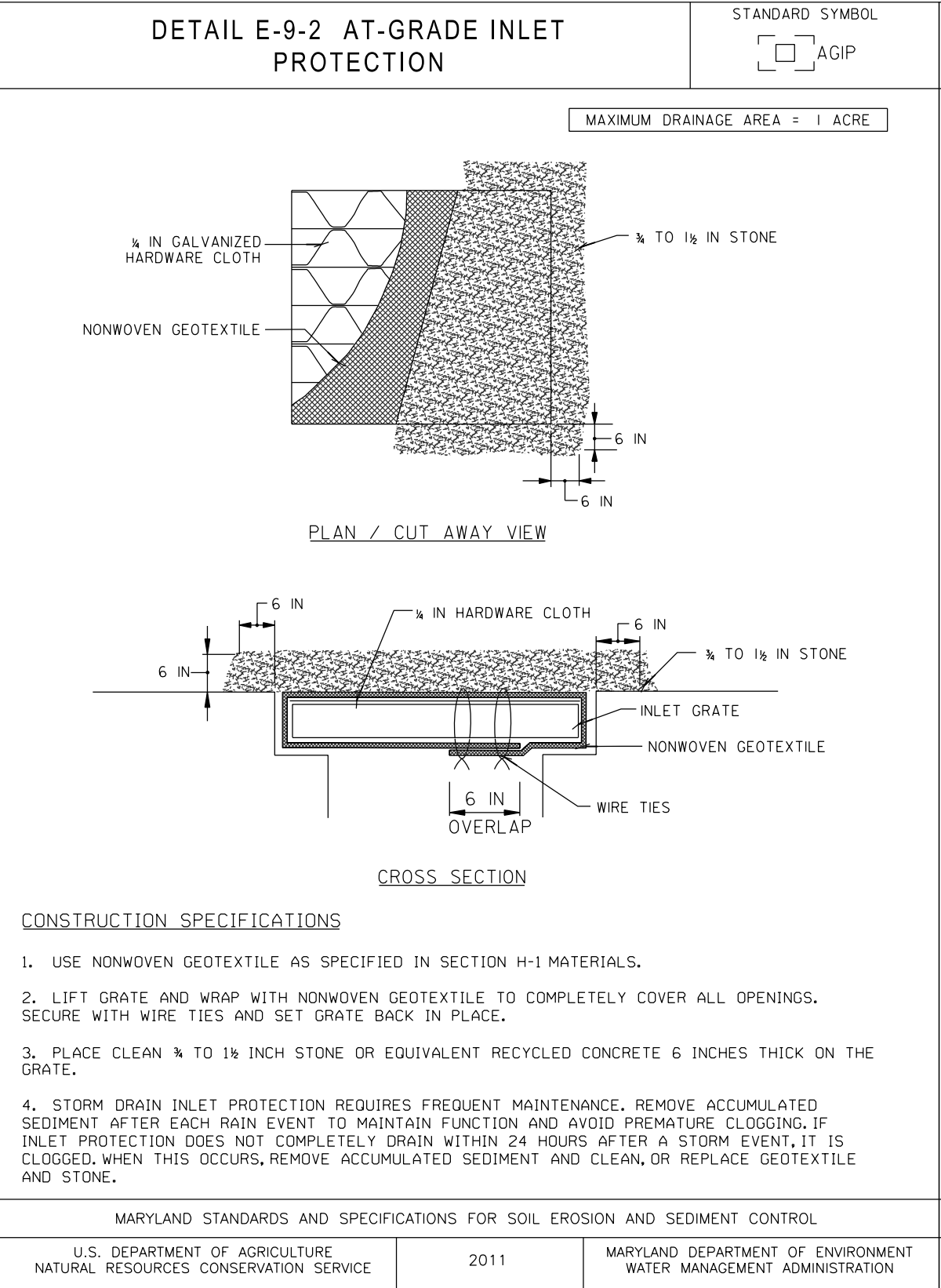
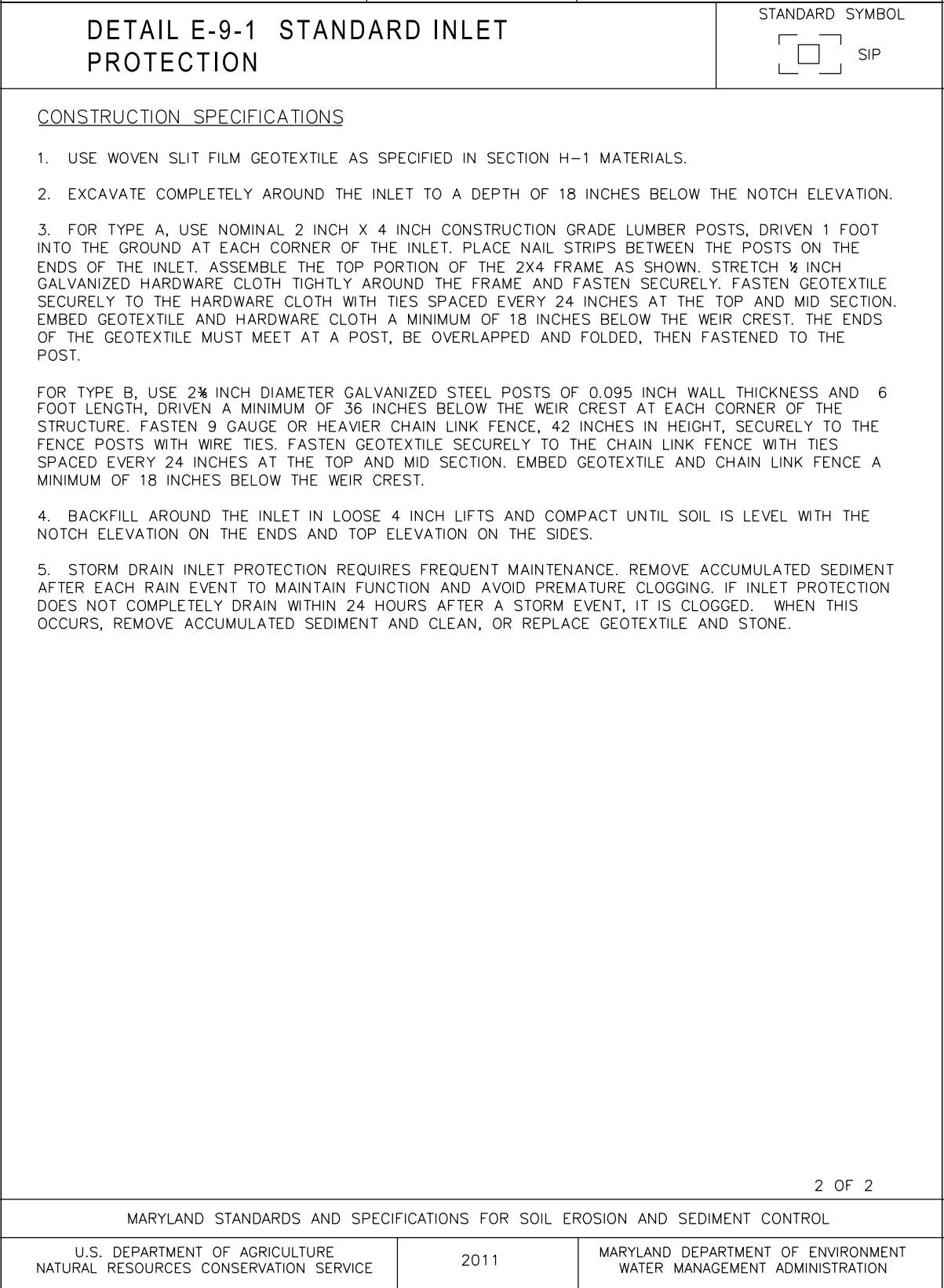
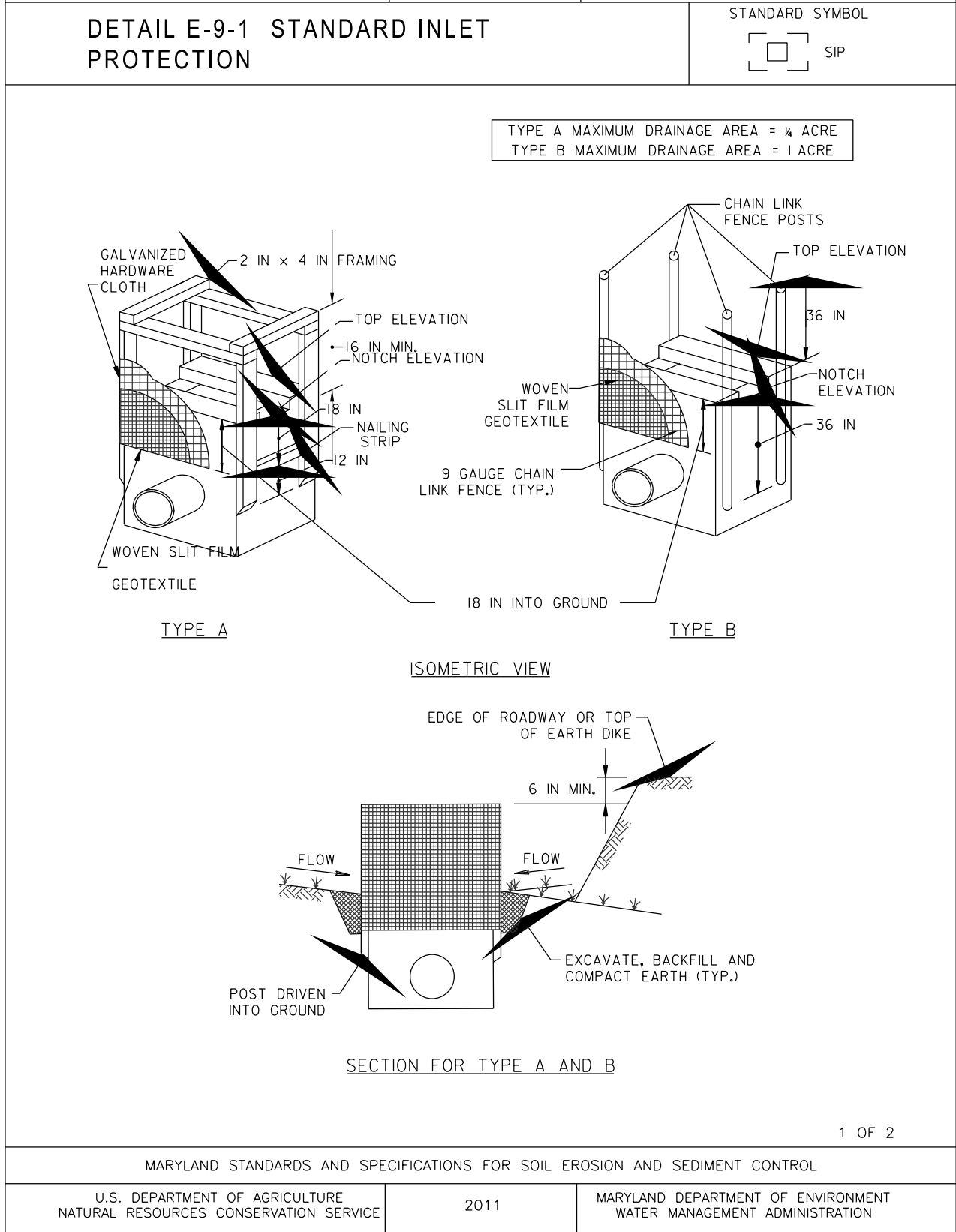
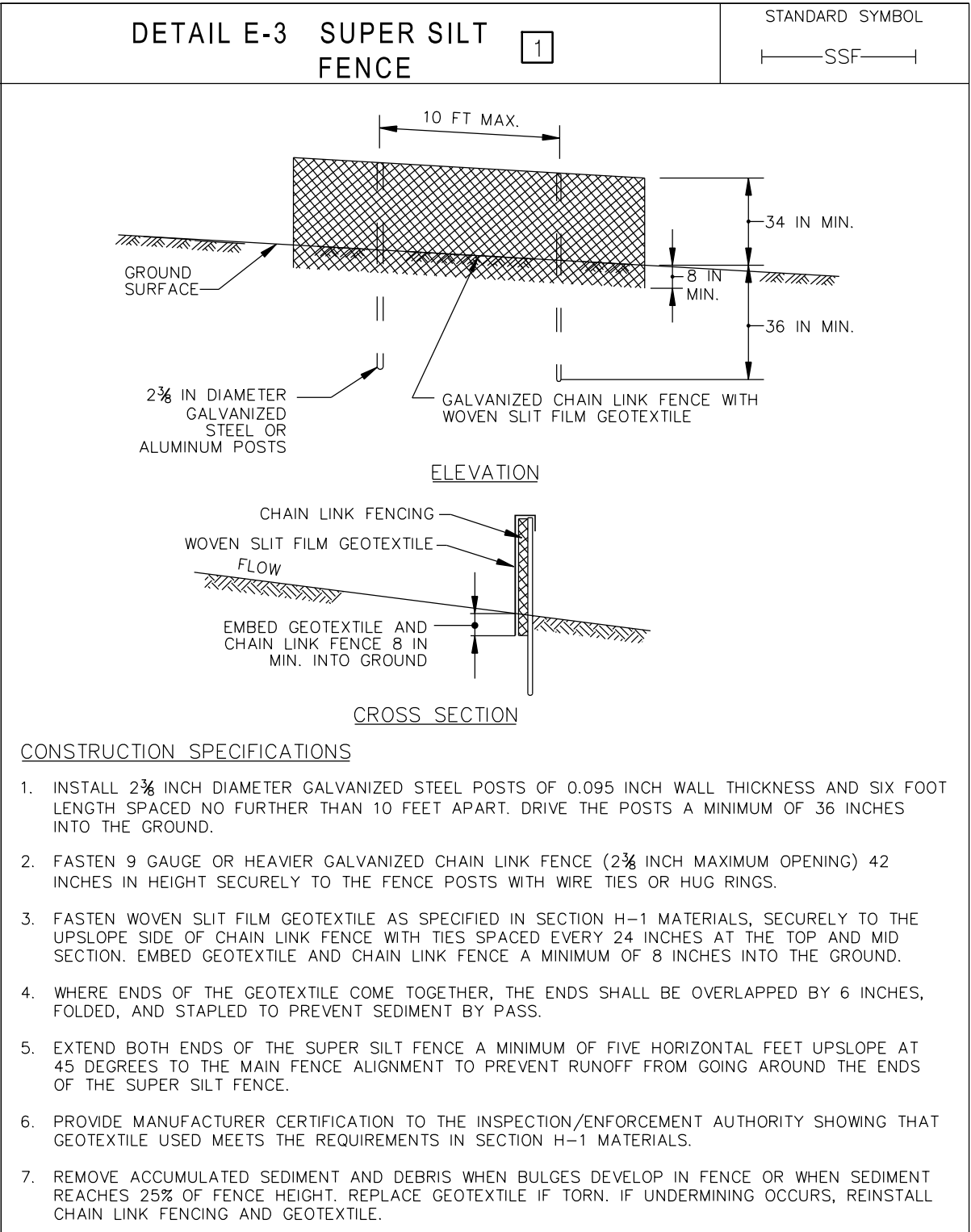
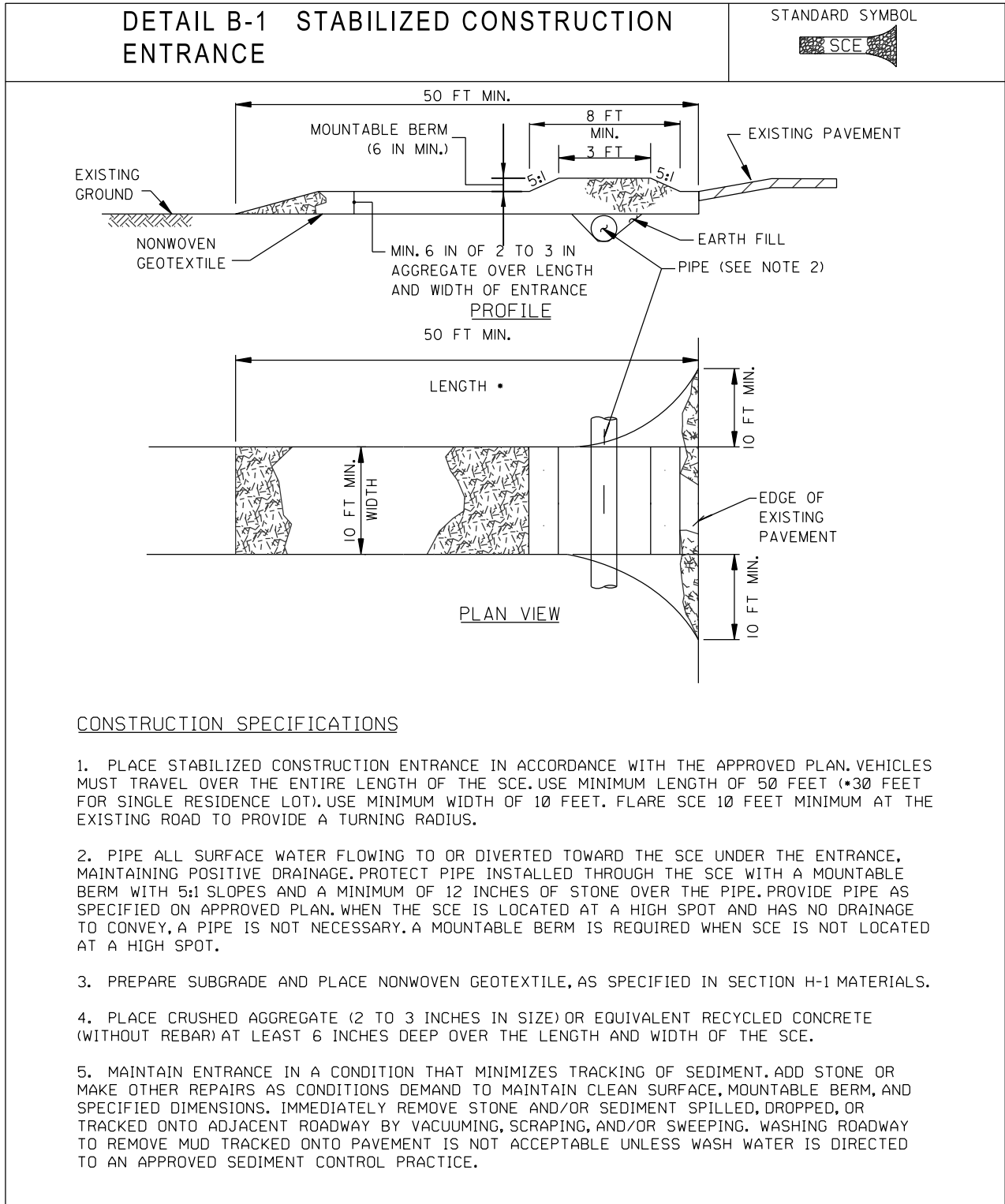
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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
EROSION EROSION AND SEDIMENT CONTROL NOTES	
SCALE : 1" = 30'	DATE : JAN 2021
Project No. : 502106	SHEET 13 of 38



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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
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MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
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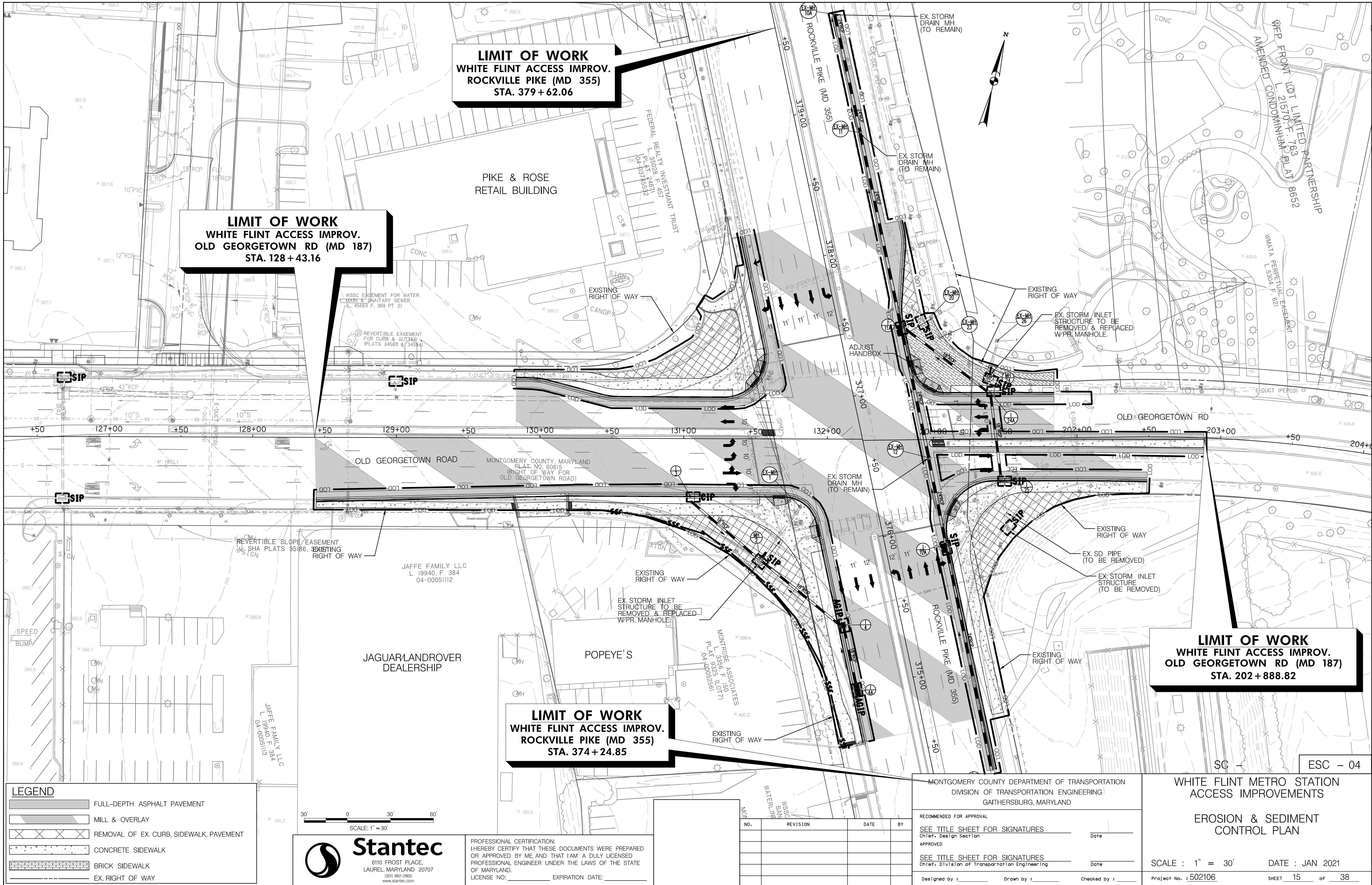
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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS		
EROSION AND SEDIMENT CONTROL DETAILS		
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Project No. : 502106	SHEET 14	of 38



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LEGEND

FULL-DEPTH ASPHALT PAVEMENT

MILL & OVERLAY

REMOVAL OF EX. CURB, SIDEWALK, PAVEMENT

CONCRETE SIDEWALK

BRICK SIDEWALK

EX. RIGHT OF WAY

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WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

EROSION & SEDIMENT  
CONTROL PLAN

SCALE : 1" = 30'      DATE : JAN 2021

Project No. : 502106      SHEET 15 of 38







7.1 LANDSCAPE NOTES, LANDSCAPE CONSTRUCTION WITHIN THE RIGHT OF WAY OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) AND WITHIN SHA PROPERTY, EASEMENT AREAS AND LANDS TO BE CONVEYED TO SHA/MTA 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](http://www.roads.maryland.gov/index.aspx?pageid=25)

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.

7.5 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 "SAME 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 REDISTURBANCE 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.

7.8 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.

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 TRUFGRASS ESTABLISHMENT PER SECTION 705 OR MEADOW ESTABLISHMENT PER SECTION 707 AS FOLLOWS:

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) OF THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, OR THE APPROVED FOREST CONSERVATION ACT PLAN OF THE LOCAL AUTHORITY.

- 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.

[illegible]

The diagram illustrates the process of transplanting a tree. At the top, a tree is shown with its root system. A section of the trunk is wrapped in burlap, secured with twine. This burlap-wrapped trunk is then placed into a prepared pit. The pit is lined with a setting bed of compacted soil. The trunk is positioned in the center of the pit, and the burlap is folded back to reveal the roots. The roots are then spread out in the soil. The pit is filled with a planting mixture, and the top layer is removed to a depth of one-third of the original soil ball. The final setup shows the tree's trunk supported by stakes and the roots spread in the soil.

**Notes:**

- Stake trees under 4" caliper.
- Guy trees over 4" caliper.
- Prune trees just after digging to reduce crown +/- 30%. Do not cut main leader. If side branches are cut to balance tree, make cuts flush with a lateral branch.

**Reinforced rubber hose**

- #12 galv. wire (2 strands twisted)
- 3' galv. turnbuckle
- Approved tree wrap
- 3" dia. x 4' cedar stake(s)
- 2" mulch material
- Mounded earth saucer
- 2x 4x 30' guy stake (3 required)
- Planting mixture
- Remove burlap from top 1/3 of earth ball
- Setting bed (compacted)
- Stakes 18" below tree pit in undisturbed soil

30' 0 30' 60'

SCALE: 1" = 30'



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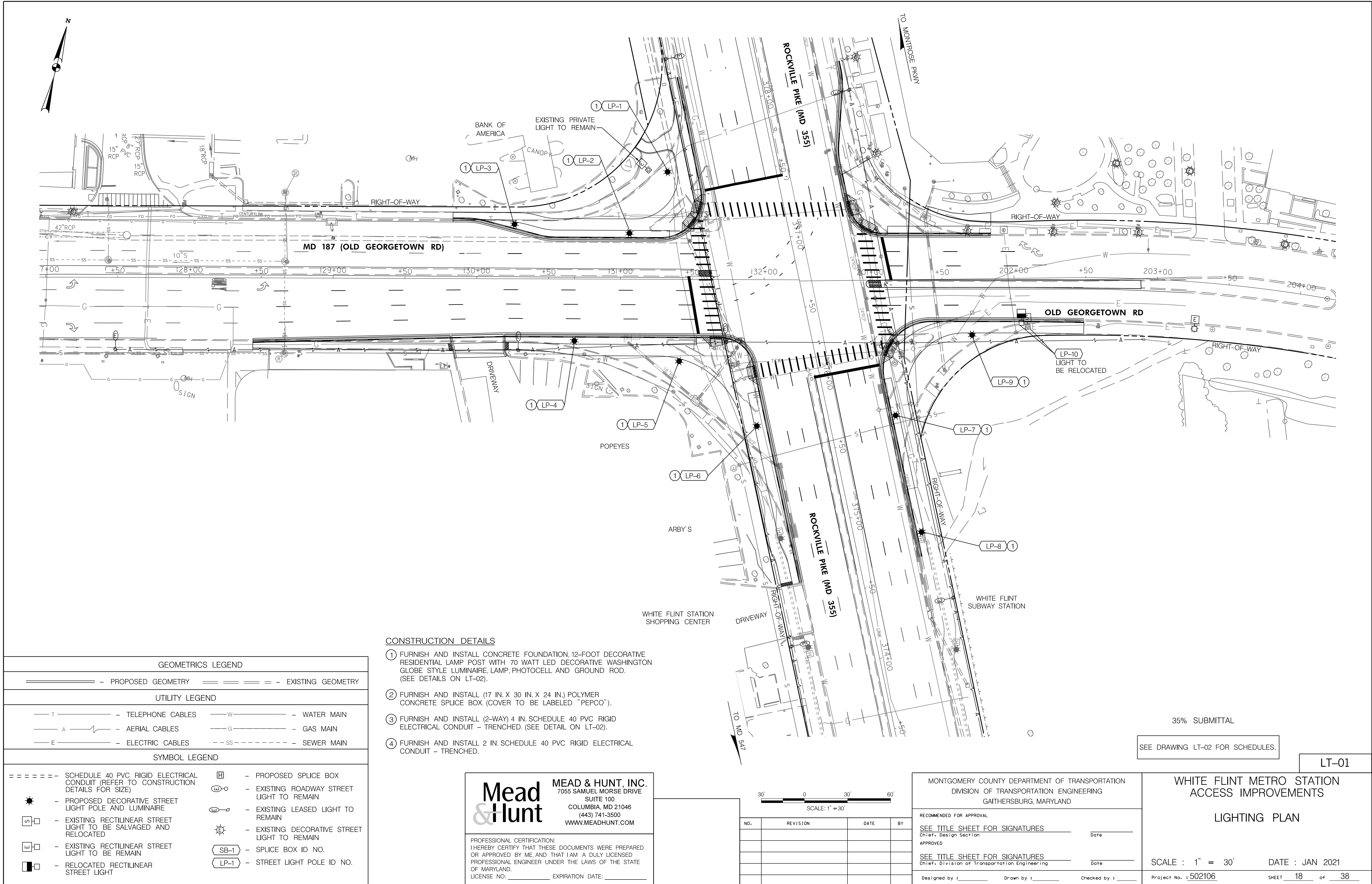
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Project No. : 502106 SHEET 17 of 38



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CONSTRUCTION DETAILS

- ① FURNISH AND INSTALL CONCRETE FOUNDATION, 12-FOOT DECORATIVE RESIDENTIAL LAMP POST WITH 70 WATT LED DECORATIVE WASHINGTON GLOBE STYLE LUMINAIRE, LAMP, PHOTOCELL AND GROUND ROD. (SEE DETAILS ON LT-02).
- ② FURNISH AND INSTALL (17 IN. X 30 IN. X 24 IN.) POLYMER CONCRETE SPLICE BOX. (COVER TO BE LABELED "PEPCO").
- ③ FURNISH AND INSTALL (2-WAY) 4 IN. SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT - TRENCHED. (SEE DETAIL ON LT-02).
- ④ FURNISH AND INSTALL 2 IN. SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT - TRENCHED.

Mead & Hunt

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30' 0 30' 60'  
SCALE: 1" = 30'

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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
LIGHTING PLAN	
SCALE : 1" = 30'	DATE : JAN 2021
Project No. : 502106	SHEET 18 of 38



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STREET LIGHT POLE SCHEDULE					
* POLE NO.	BASELINE	STATION AND OFFSET	TAG NO.	NORTHING	EASTING
LP-1	MD 355 (ROCKVILLE PIKE)				
LP-2	MD 187 (OLD GEORGETOWN RD)				
LP-3	MD 187 (OLD GEORGETOWN RD)				
LP-4	MD 187 (OLD GEORGETOWN RD)				
LP-5	MD 187 (OLD GEORGETOWN RD)				
LP-6	MD 355 (ROCKVILLE PIKE)				
LP-7	MD 355 (ROCKVILLE PIKE)				
LP-8	MD 355 (ROCKVILLE PIKE)				
LP-9	OLD GEORGETOWN RD				
LP-10	OLD GEORGETOWN RD				

\* - THE POLE NUMBERS ARE ONLY USED TO TIE THE POLES SHOWN ON THE PLAN TO THE SCHEDULE. REFER TO THE "TAG NO." COLUMN FOR THE COUNTY POLE ID.

SPLICE BOX SCHEDULE	
SB NO.	STATION AND OFFSET
SB-1	
SB-2	
SB-3	
SB-4	
SB-5	
SB-6	
SB-7	
SB-8	
SB-9	

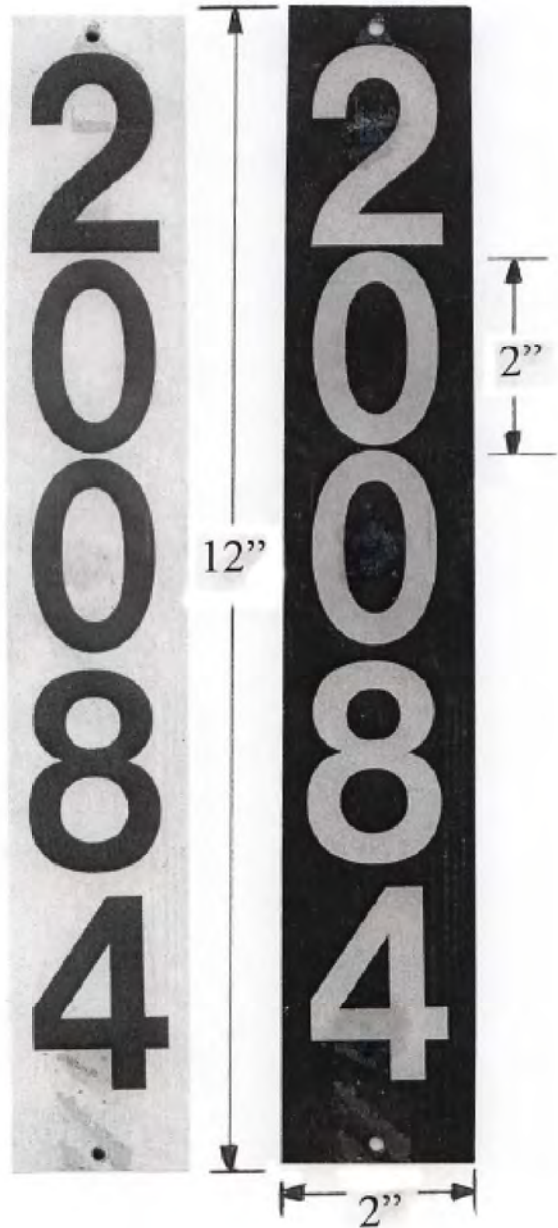
GENERAL NOTES

- STREET LIGHT BASES AND LOCATIONS TO BE APPROVED BY MONTGOMERY COUNTY.
- ALL MATERIALS USED ARE TO CONFORM TO PEPCO SPECIFICATIONS.
- DAMAGE TO ANY UTILITIES OCCURRED BY THE CONTRACTOR DURING THE INSTALLATION OF LIGHTING FACILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND ALL LOCAL CODES AND REGULATIONS.
- ALL MATERIAL, ELECTRICAL DEVICES AND EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AND SHALL BE UL APPROVED AND LABELED UNLESS OTHERWISE SPECIFIED.
- ALL CONDUIT INSTALLATIONS UNDER SIDEWALKS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE NEW SIDEWALKS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A POLYMER CONCRETE SPLICE BOX ADJACENT TO EACH STREETLIGHT (LOCATION AND SIZE AS SHOWN ON PLANS). SPLICE BOXES SHALL BE INSTALLED PARALLEL TO THE PATHWAY. THE SPLICE BOXES SHALL BE AS APPROVED BY PEPCO.

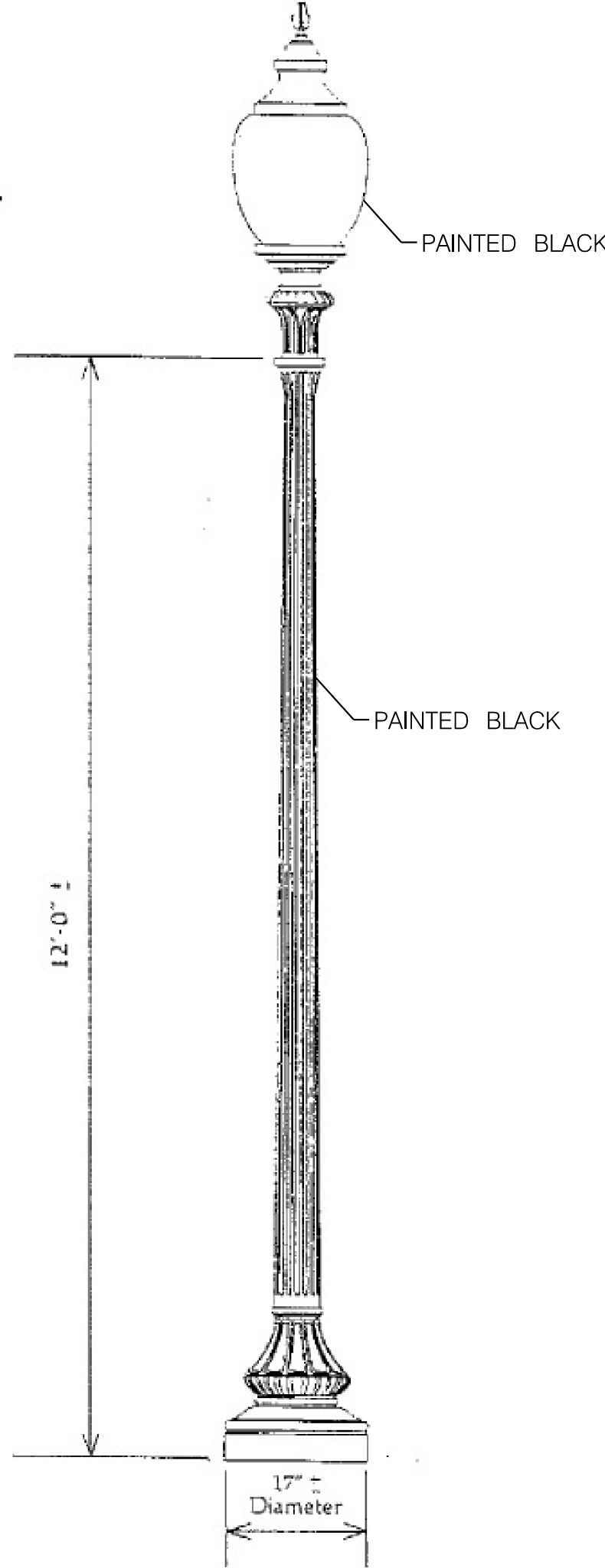
STREETLIGHT CONDUIT INSTALLATION CHECKLIST

- 2-WAY FOUR INCH (4"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING EACH SPLICEBOX IN A CONTINUOUS RUN.
- TWO INCH (2"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING THE SPLICEBOX TO THE STREET LIGHT FOOTING.
- CONTRACTOR TO PROVIDE AND INSTALL PHOTOCELLS FOR EACH STREET LIGHT LUMINAIRE.
- STREETLIGHT AND POST ERECTED BY THE CONTRACTOR ARE TO BE WIRED WITH #10 AWG (MIN.) COPPER WITH A THREE FOOT MINIMUM LOOP OF SLACK IN THE SPLICEBOX FOR ATTACHMENT BY PEPCO.
- STREETLIGHT POSTS ARE TO HAVE A GROUNDING LUG ATTACHED TO THE BASE OF THE POST WITH A MINIMUM THREE FOOT LOOP OF SLACK IN THE SPLICEBOX OF #6 AWG BARE COPPER WIRE ATTACHED.
- ALL SWEEPBENDS TO BE MINIMUM OF 24 INCHES RADIUS.
- 1/4" NYLON PULL-LINES IS TO BE INSTALLED IN EACH CONDUIT DUCT.
- CONTRACTOR TO INSTALL MARKING TAPE ONE FOOT (1") ABOVE EACH CONDUIT RUN.
- NO MORE THAN 180 DEGREES OF BENDS IN A CONDUIT RUN.
- CONDUIT IS TO HAVE THREE (3) FEET (MINIMUM) OF COVER OVER IT.
- INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO PEPCO INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT. FAILURE TO OBTAIN SUCH INSPECTION WILL RESULT IN THE UNCOVERING OF FACILITIES AT THE CONTRACTOR'S EXPENSE. CALL (202) 388-2137 7:00 TO 9:00 AM OR 3:00 TO 4:00 PM TWO WORKING DAYS IN ADVANCE TO ARRANGE INSPECTION.
- ALL STREETLIGHT EQUIPMENT AND MATERIALS SHALL BE SUBMITTED TO MONTGOMERY COUNTY FOR APPROVAL PRIOR TO BEING INSTALLED ON THE PROJECT. SEE SPECIAL PROVISIONS FOR STREETLIGHT SPECIFICATIONS.
- ALL STREETLIGHTS SHALL BE INSTALLED 2'-6" BEHIND THE FACE OF THE CURB (EXCEPT AS NOTED ON PLANS).
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS / CATALOG CUTS FOR ALL LIGHTING EQUIPMENT TO MONTGOMERY COUNTY TRAFFIC OPERATIONS DIVISION FOR APPROVAL PRIOR TO INSTALLATION.

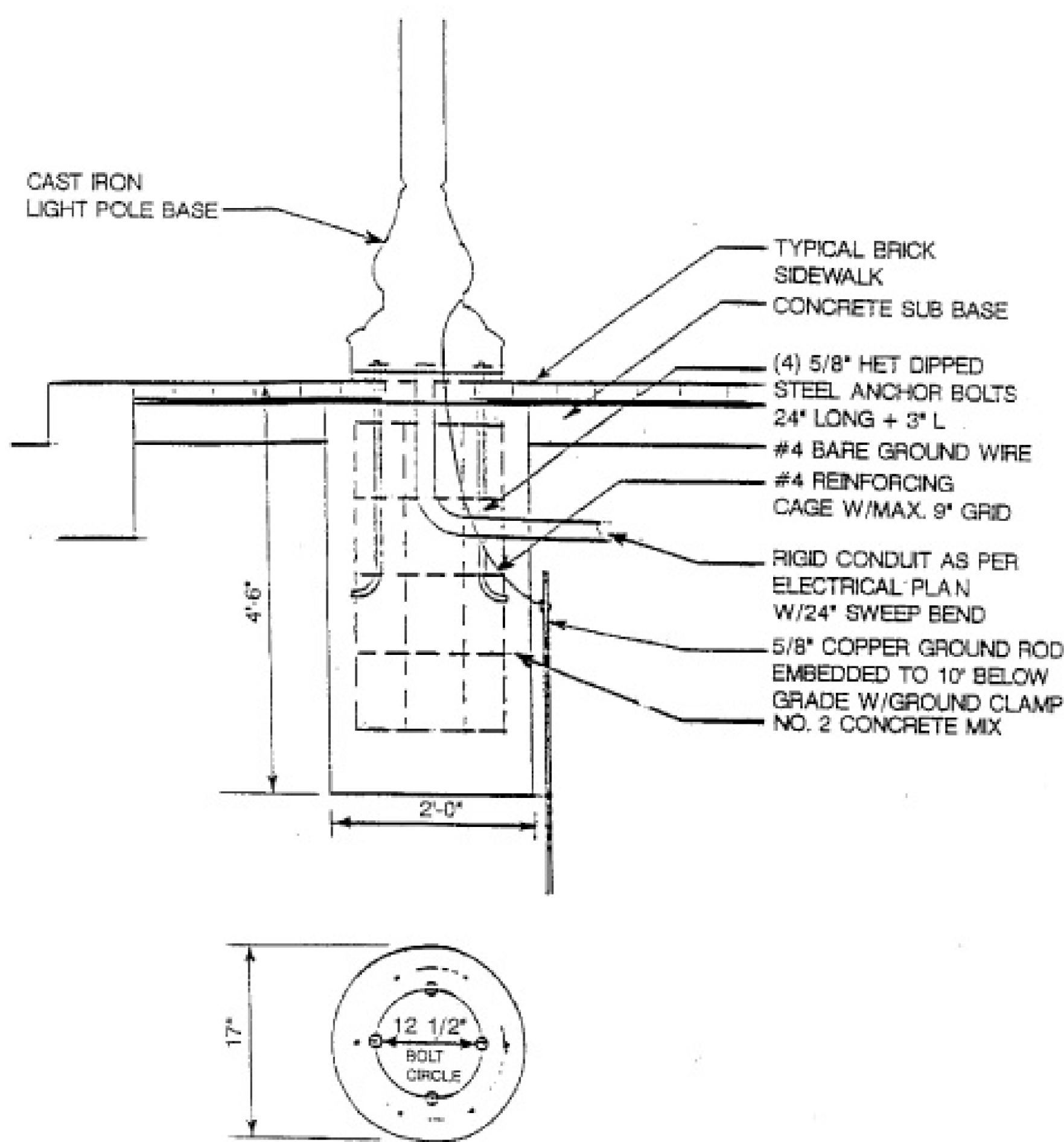
POLE TAG NUMBEING DETAIL



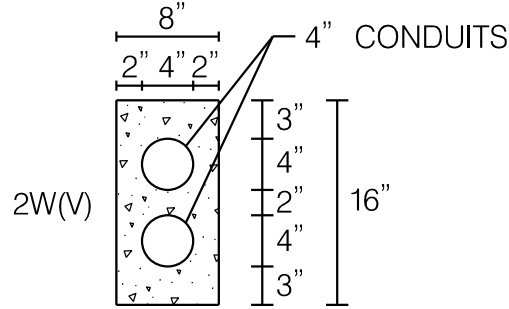
LIGHT POLE DETAIL



DECORATIVE RESIDENTIAL LAMP POST BASE DETAIL



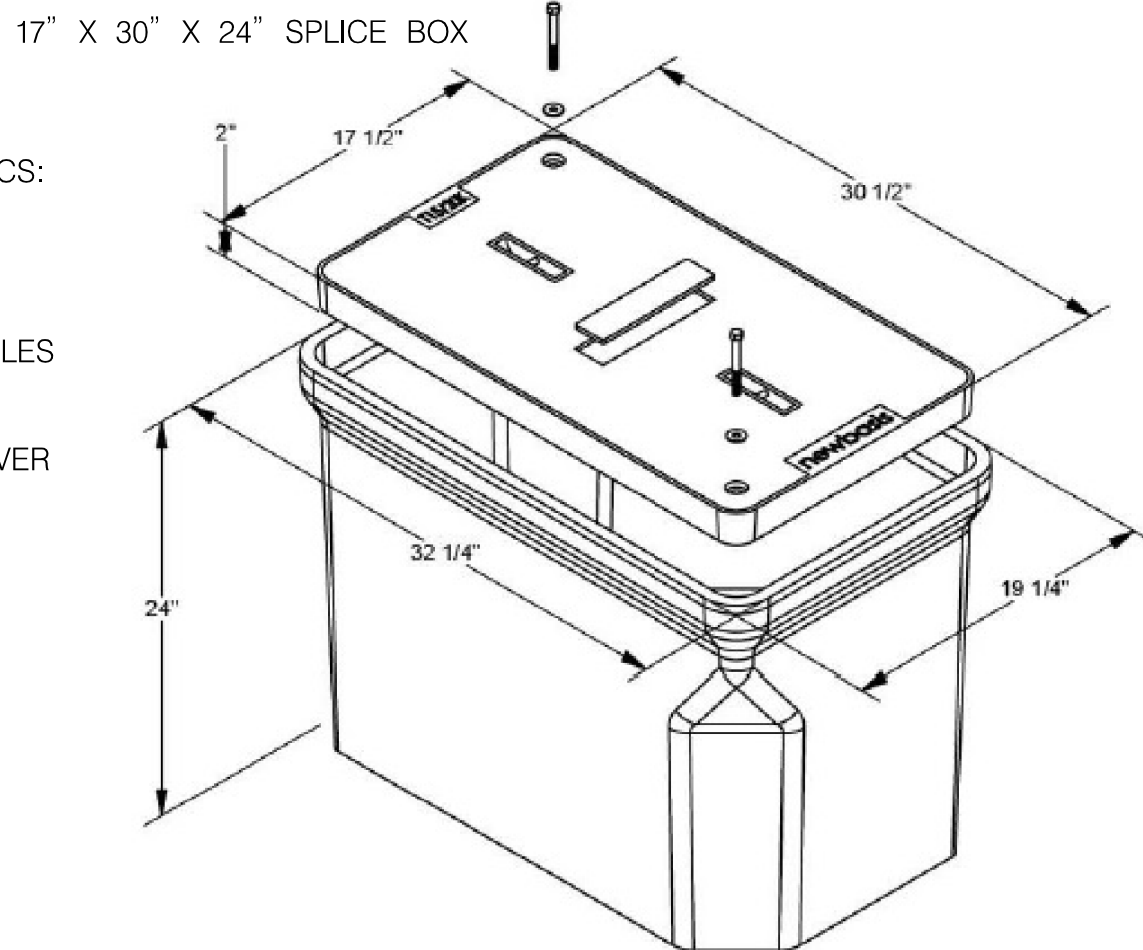
STREET LIGHT CONCRETE ENCASED CONDUIT DUCT LINE CONFIGURATION



NOTES:

- THE CONTRACTOR SHALL TERMINATE THE CONDUITS WITH COUPLINGS AND PLUGS.
- ONLY STANDARD WEIGHT READY MIX CONCRETE WILL BE APPROVED FOR ENCASEMENT.
- NO METALLIC MATERIALS (REBARS, HOLD DOWN WIRES, ETC.) SHALL BE PERMITTED IN SPACES BETWEEN LOW VOLTAGE DUCTS.
- PEPCO CONDUIT INSPECTOR SHOULD BE CONTACTED 48 HOURS (2 WORK DAYS) PRIOR TO ENCASEMENT OF CONDUIT FOR SCHEDULING TRANSMISSION AND DISTRIBUTION CONSTRUCTION INSPECTION AND APPROVAL.

POLYMER CONCRETE SPLICE BOX DETAIL



SPLICE BOX SPECIFICS:  
NO FLOOR  
ANSI 77 - T15/20K  
3/8" STAINLESS  
STEEL HEX BOLTS  
INTEGRAL DRAIN HOLES

COVER SPECIFICS:  
SKID RESISTANT COVER  
WITH NAME PLATE  
"PEPCO"

LOAD RATINGS  
WUC 3.6  
ASTM C857  
ANSI/SCTE 77

LT-02

**Mead & Hunt**

**MEAD & HUNT, INC.**  
7055 SAMUEL MORSE DRIVE  
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WWW.MEADHUNT.COM

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PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE  
OF MARYLAND.  
LICENSE NO: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

35% SUBMITTAL

NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL  
SEE TITLE SHEET FOR SIGNATURES \_\_\_\_\_ Date \_\_\_\_\_  
Chief, Design Section  
APPROVED  
SEE TITLE SHEET FOR SIGNATURES \_\_\_\_\_ Date \_\_\_\_\_  
Chief, Division of Transportation Engineering  
Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_

WHITE FLINT METRO STATION  
ACCESS IMPROVEMENTS

LIGHTING SCHEDULES  
AND NOTES

SCALE : NONE DATE : JAN 2021

Project No. : 502106 SHEET 19 of 38







[illegible]

SN - 01

SN - 02

<div> <div></div> <div>• CODE NUMBER DESCRIPTION &amp; UNIT</div> </div>		
CODE NUMBERS	DESCRIPTION	UNIT
1	F&ISHEET ALUMINUM SIGNS	S.F.
2	REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORTS	S.F.
3	BREAKWAY WOOD SIGN SUPPORTS 6"X8"	L.F.
4	F&ISQUARE PERFORATED TUBULAR STEEL POST	E.A.
5	F&IANCHOR BASES FOR SQUARE PERFORATED TUBULAR STEEL POST	E.A.
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS	L.F.
7	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKINGS	L.F.
8	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	L.F.
9	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	S.F.

REVISIONS	INDEX OF QUANTITIES		
	SCALE _____ ADVERTISED DATE _____ CONTRACT NO. _____		
	DESIGNED BY _____	COUNTY _____ MONTGOMERY _____	
	DRAWN BY _____	LOGMILE _____ 15035506.356	
	CHECKED BY _____	TIMS NO. _____	
	MDE/PRD _____ NA	TOD NO. _____	
	DRAWING NO. SN-11-- 01 OF 01	SHEET NO. 21 OF 38	

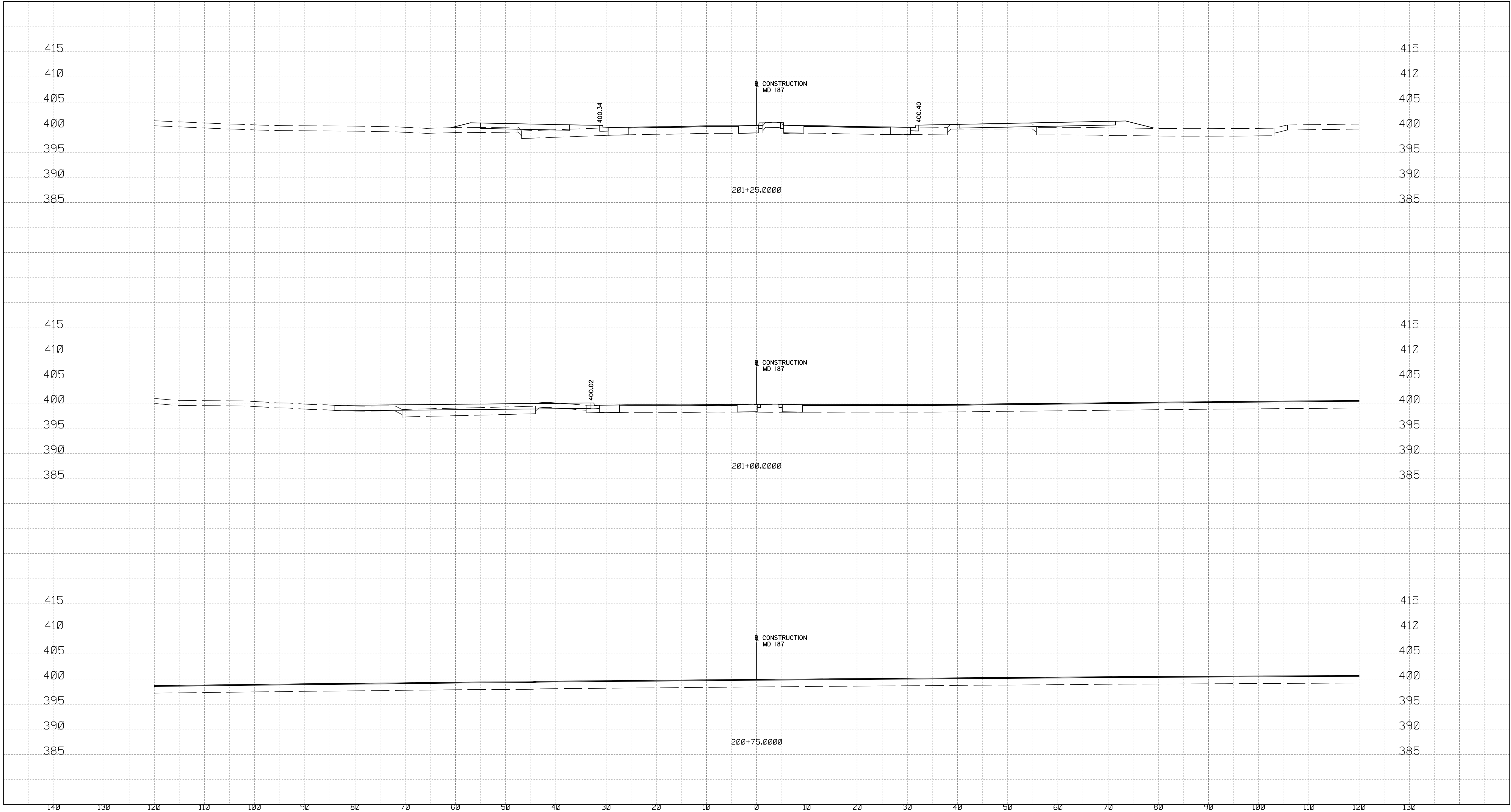


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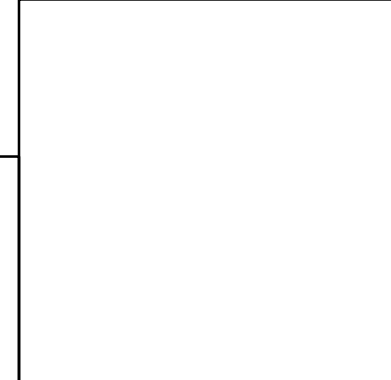
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LICENSE NO: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_



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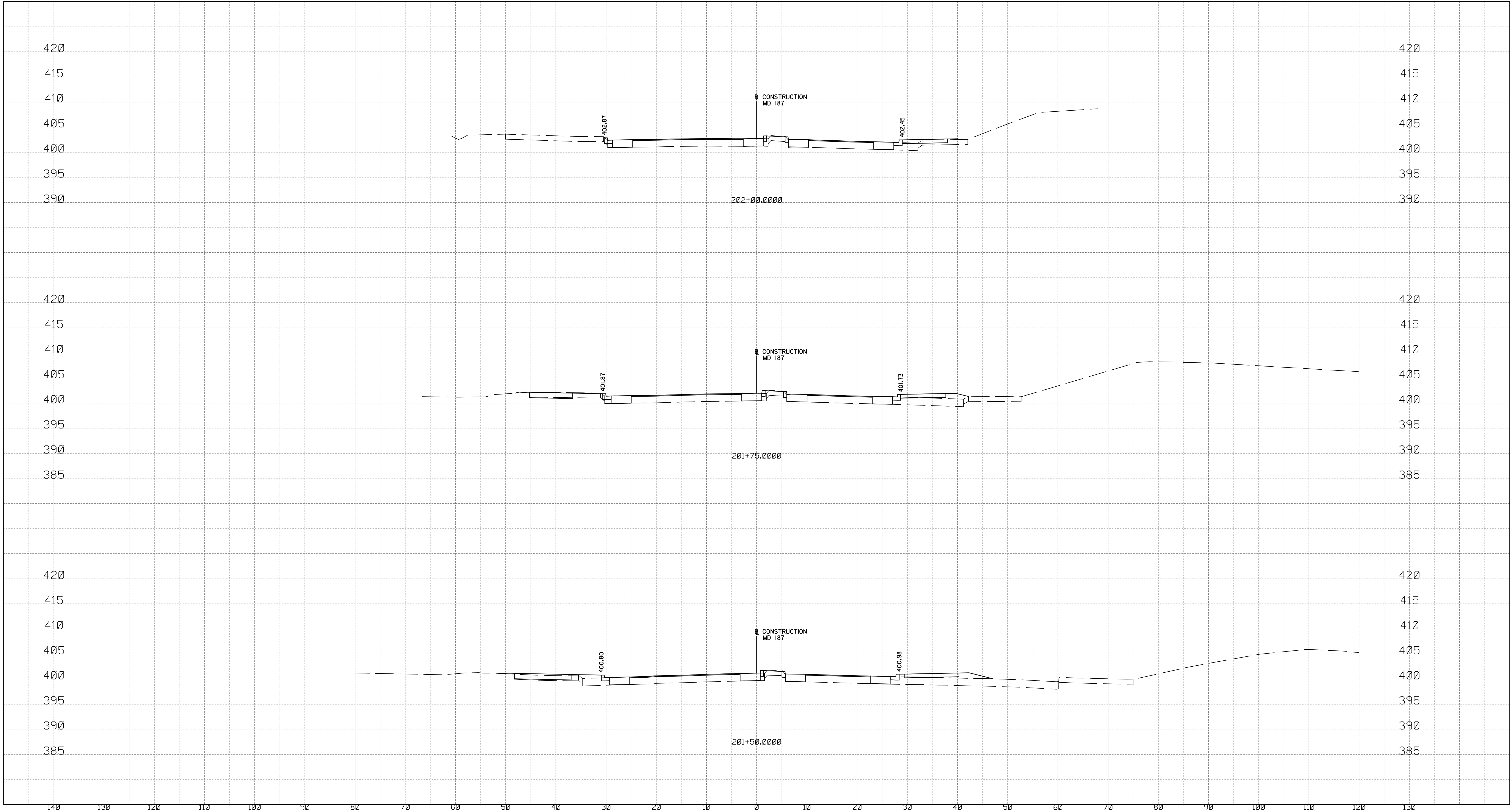
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RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS ROADWAY CROSS SECTIONS	
SCALE : 1" = 10'	DATE : JUNE 2020
Project No. : 502106	SHEET 22 of 38

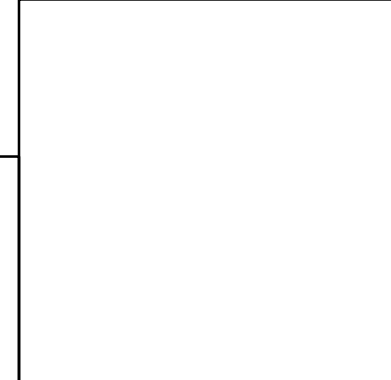
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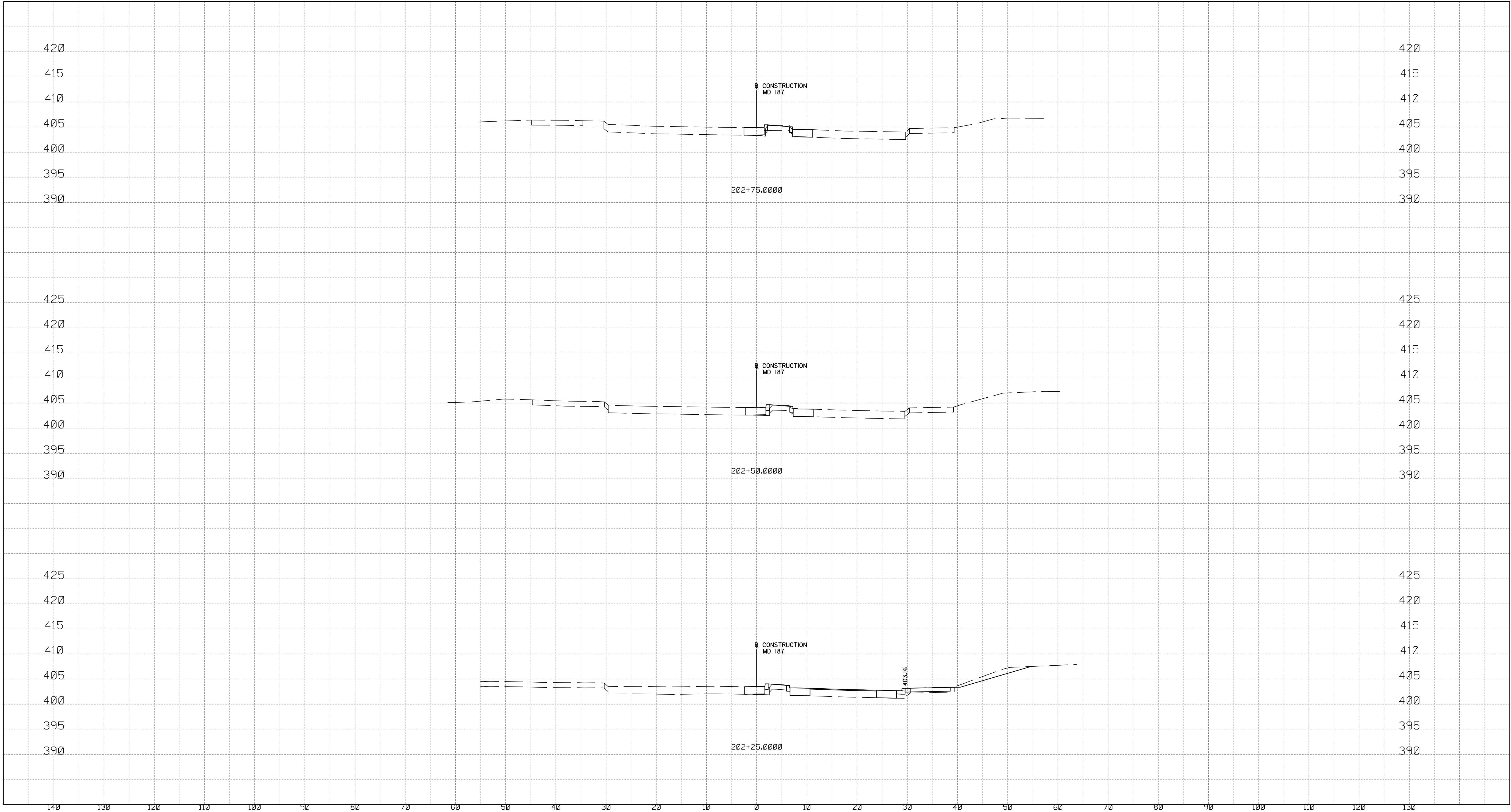
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
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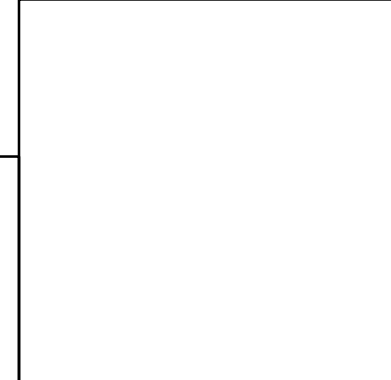
XS-02	
WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS ROADWAY CROSS SECTIONS	
SCALE : 1" = 10'	DATE : JUNE 2020
Project No. : 502106	SHEET 23 of 38



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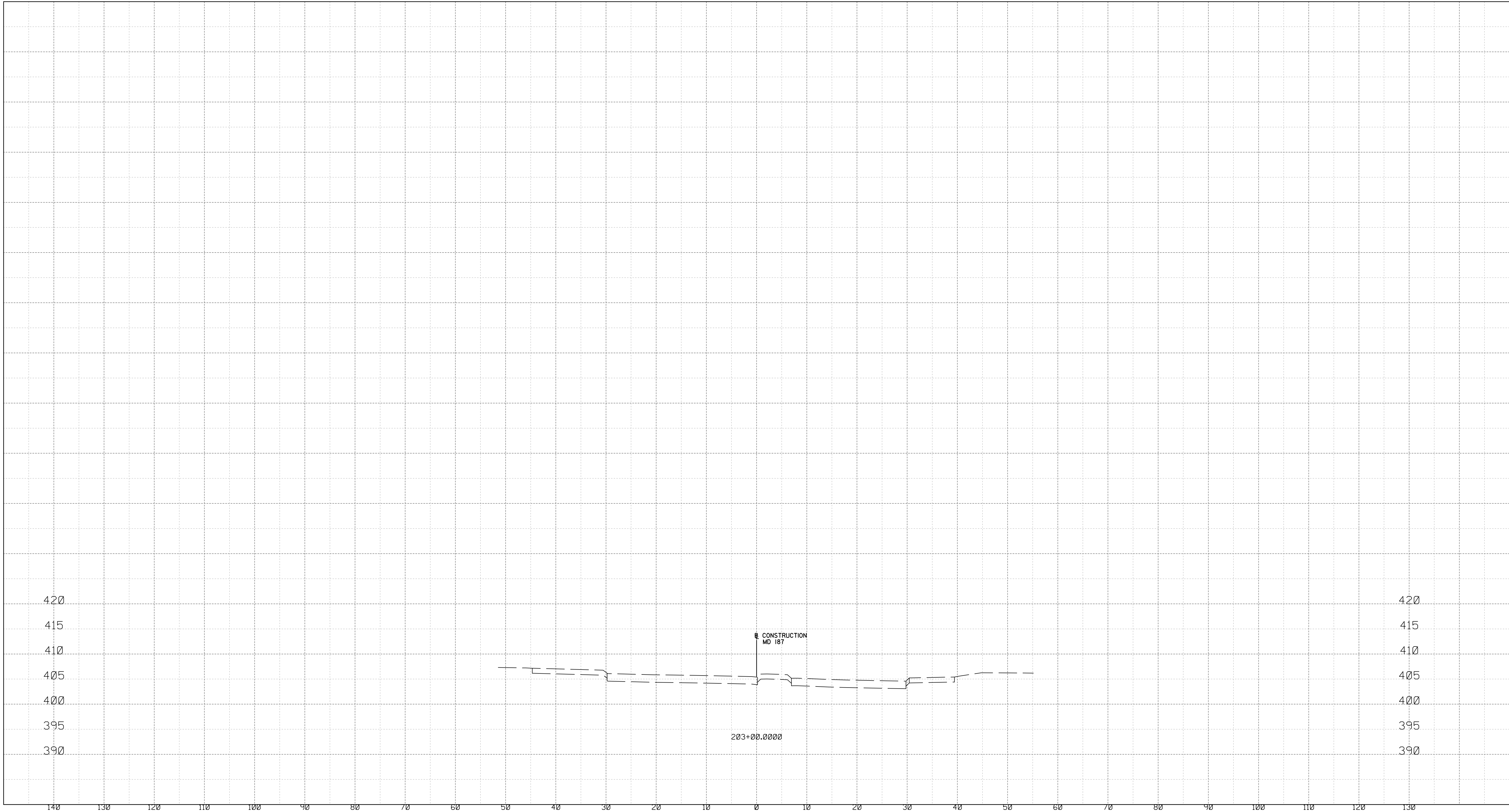
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RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS ROADWAY CROSS SECTIONS	
SCALE : 1" = 10'	DATE : JUNE 2020
Project No. : 502106	SHEET 24 of 38

XS-03



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NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED

Date

Chief, Division of Transportation Engineering

Date

Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

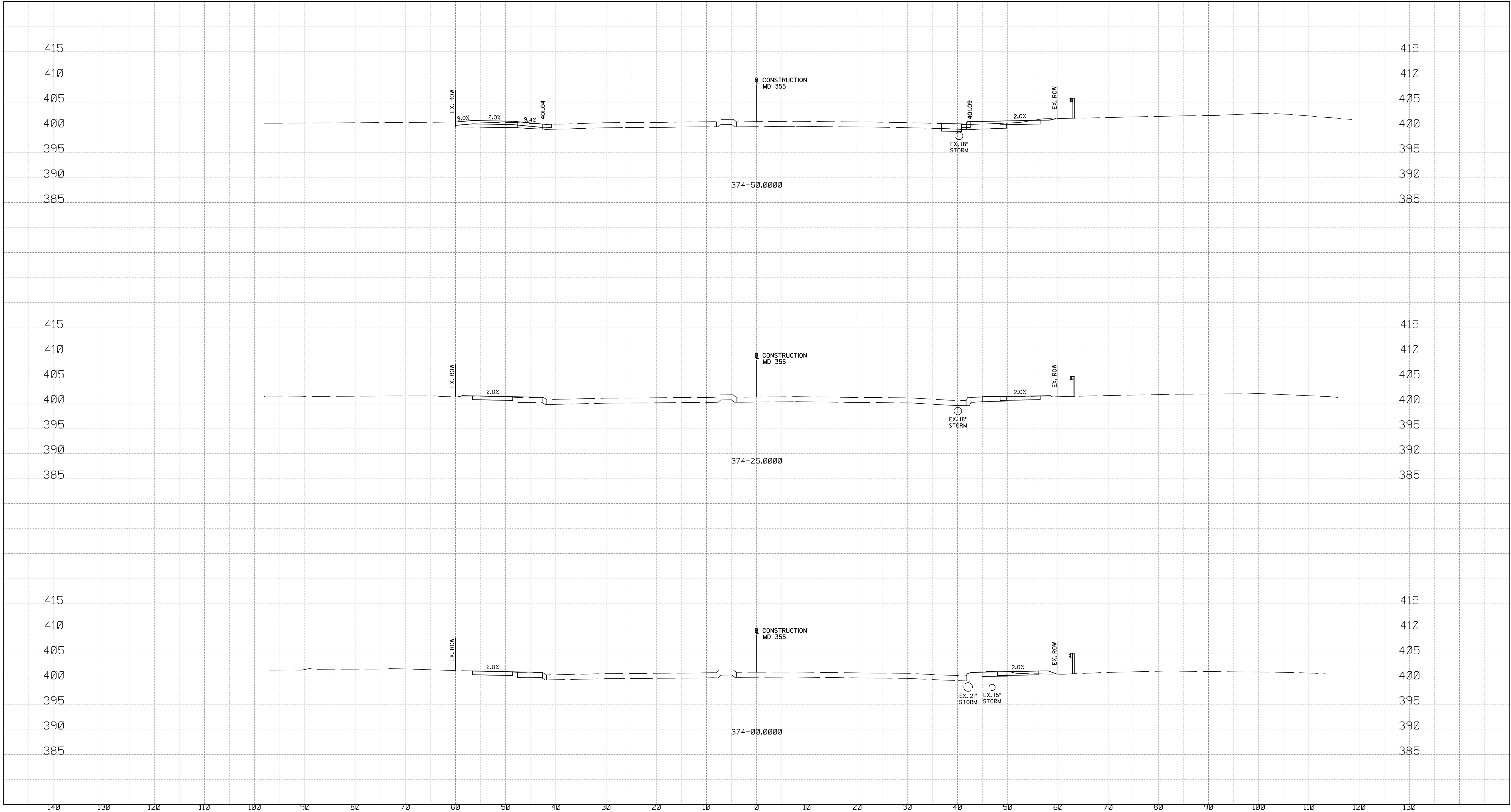
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Project No. : 502106      SHEET 25 of 38

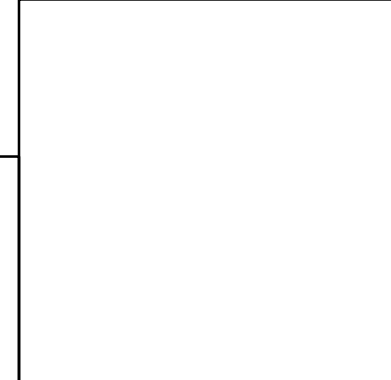
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	Date _____
Chief, Division of Transportation Engineering	Date _____
Designed by : _____	Drawn by : _____ Checked by : _____

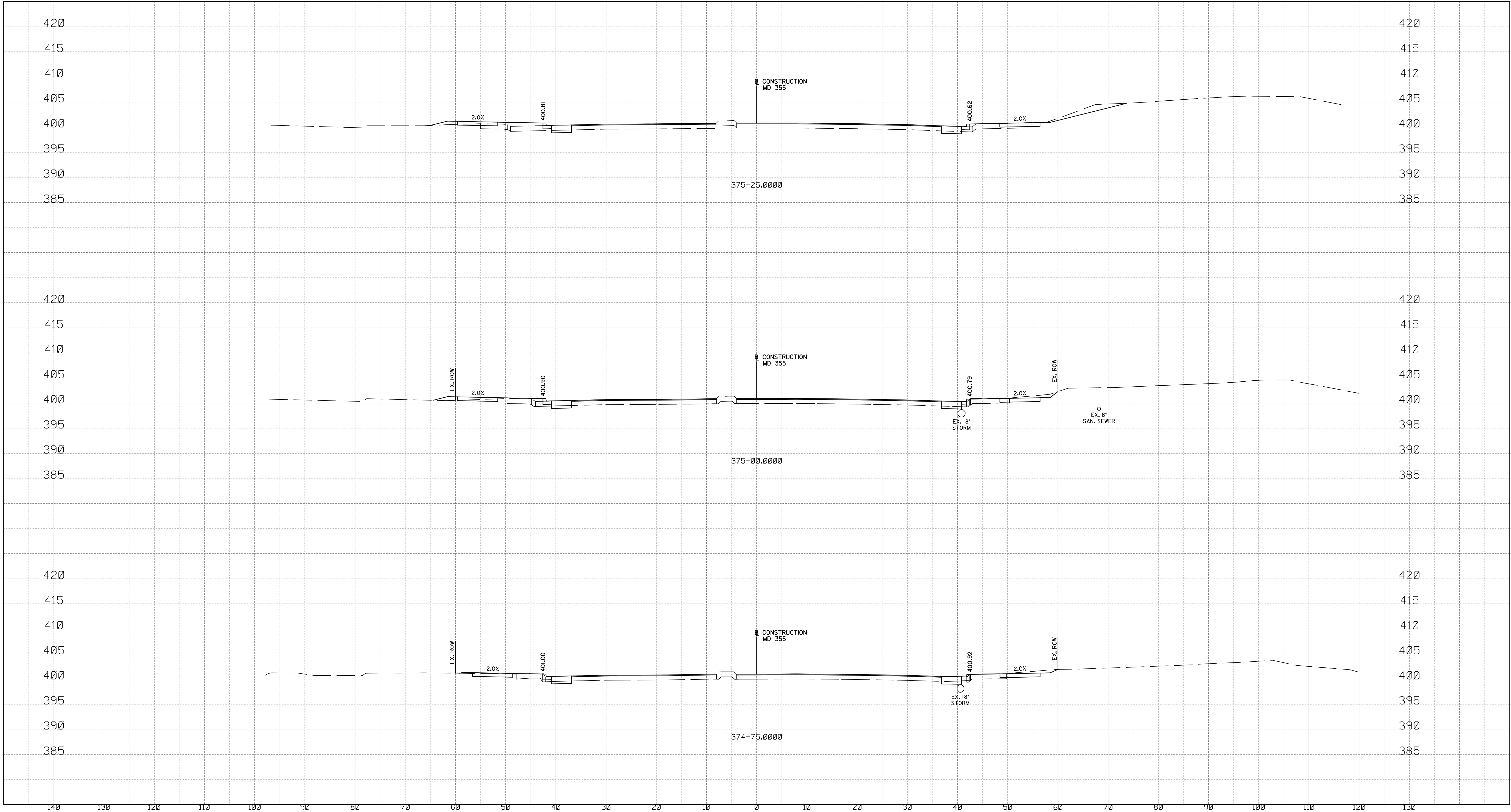
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WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

SCALE : 1" = 10'      DATE : JUNE 2020  
Project No. : 502106      SHEET 26 of 38



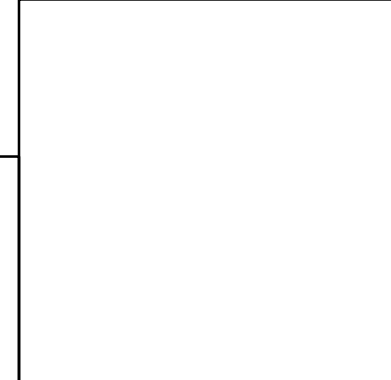
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NO.	REVISION	DATE	BY

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

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

\_\_\_\_\_

\_\_\_\_\_

Date

\_\_\_\_\_

Chief, Division of Transportation Engineering

\_\_\_\_\_

Date

\_\_\_\_\_

Designed by : \_\_\_\_\_

Drawn by : \_\_\_\_\_

Checked by : \_\_\_\_\_

XS-06

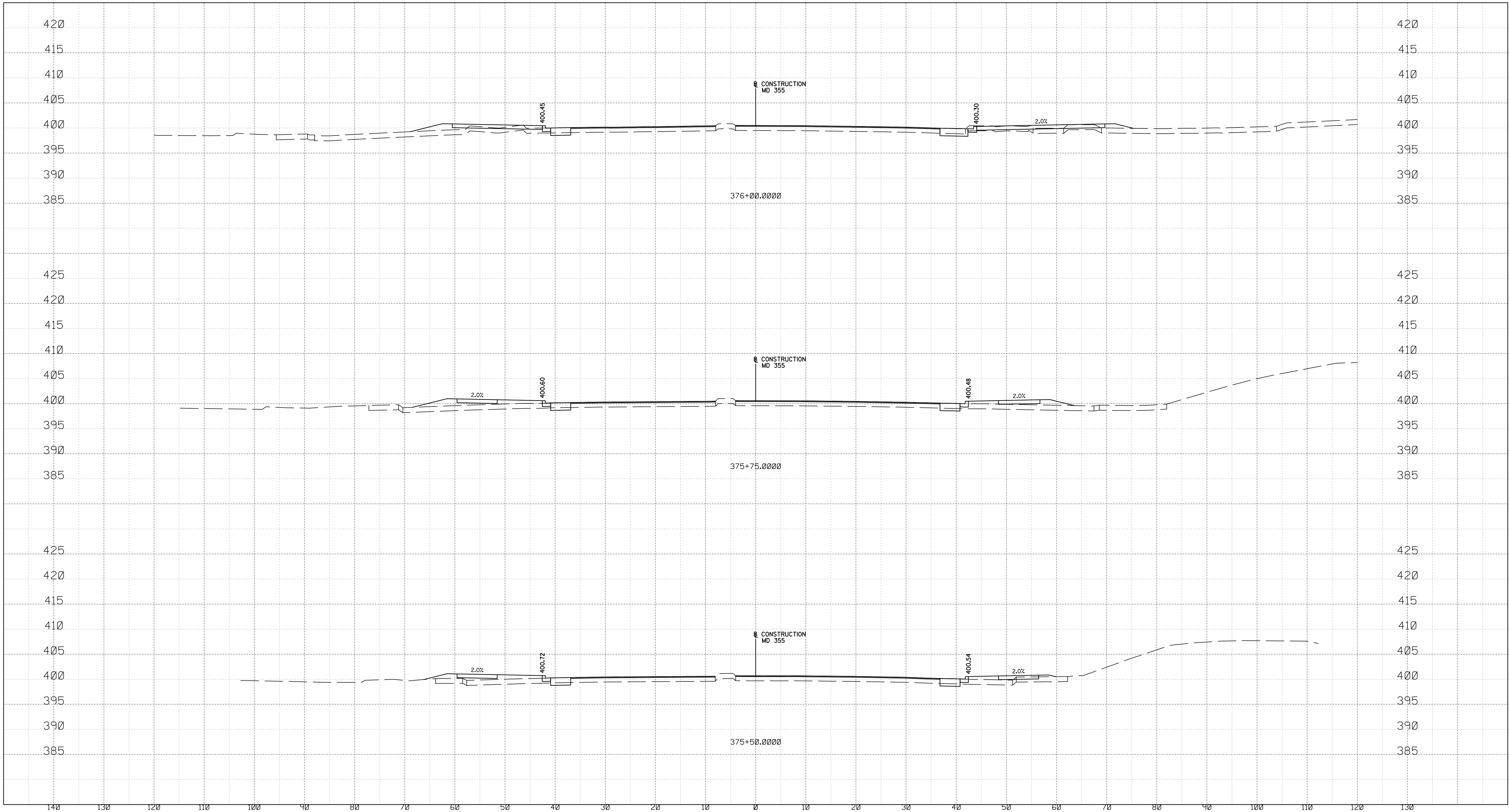
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PEDESTRIAN ACCESS IMPROVEMENTS  
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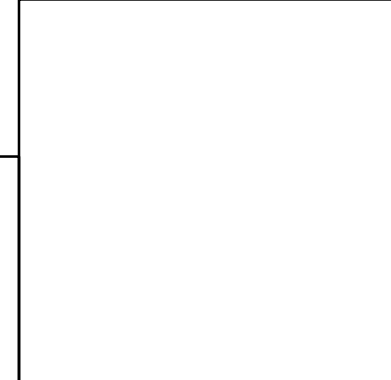
Project No. : 502106      SHEET 27 of 38



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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
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Chief, Design Section APPROVED	Date _____
Chief, Division of Transportation Engineering	Date _____
Designed by : _____	Drawn by : _____ Checked by : _____

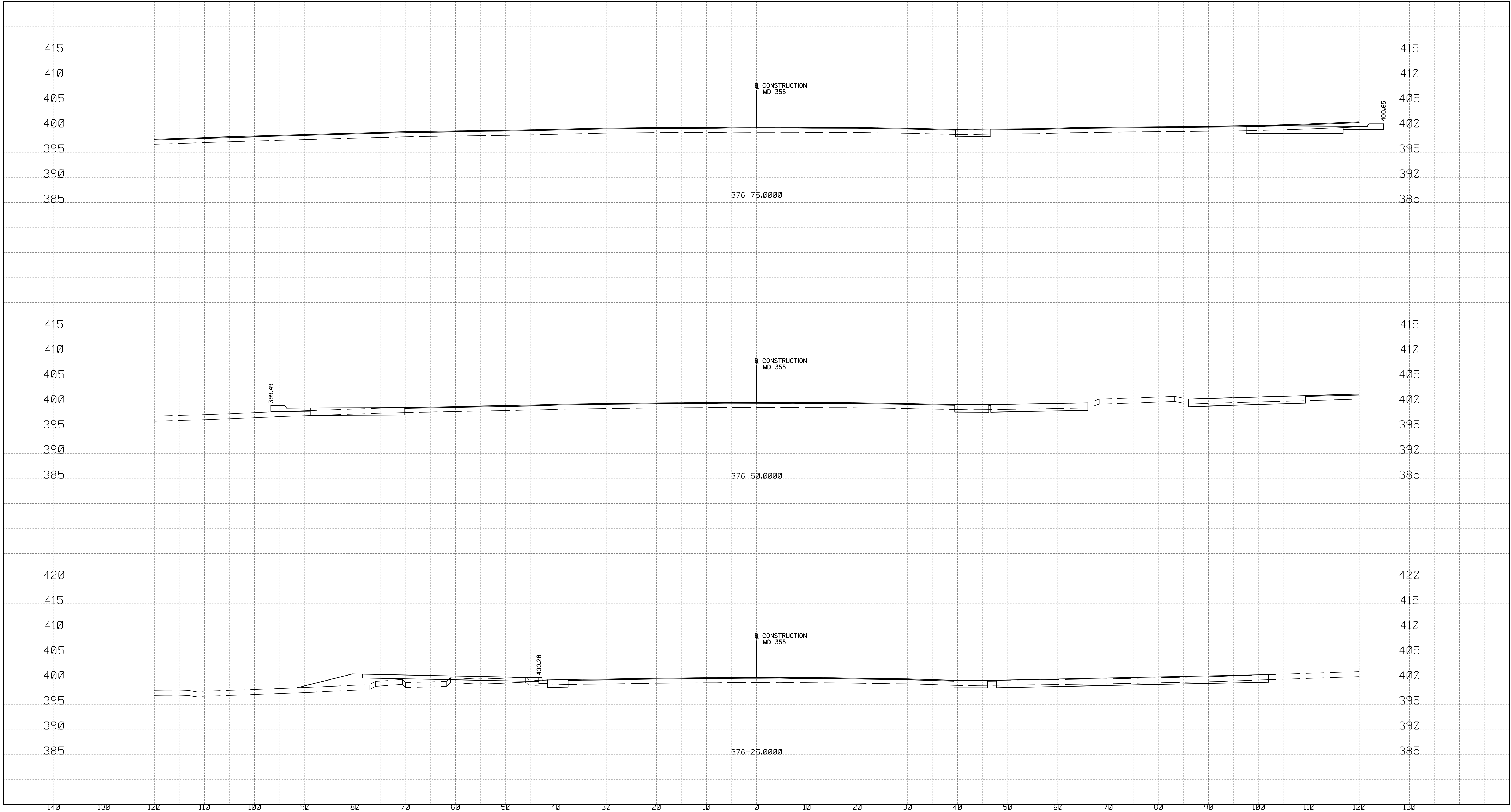
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WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

SCALE : 1" = 10'      DATE : JUNE 2020  
Project No. : 502106      SHEET 28 of 38



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NO.	REVISION	DATE	BY

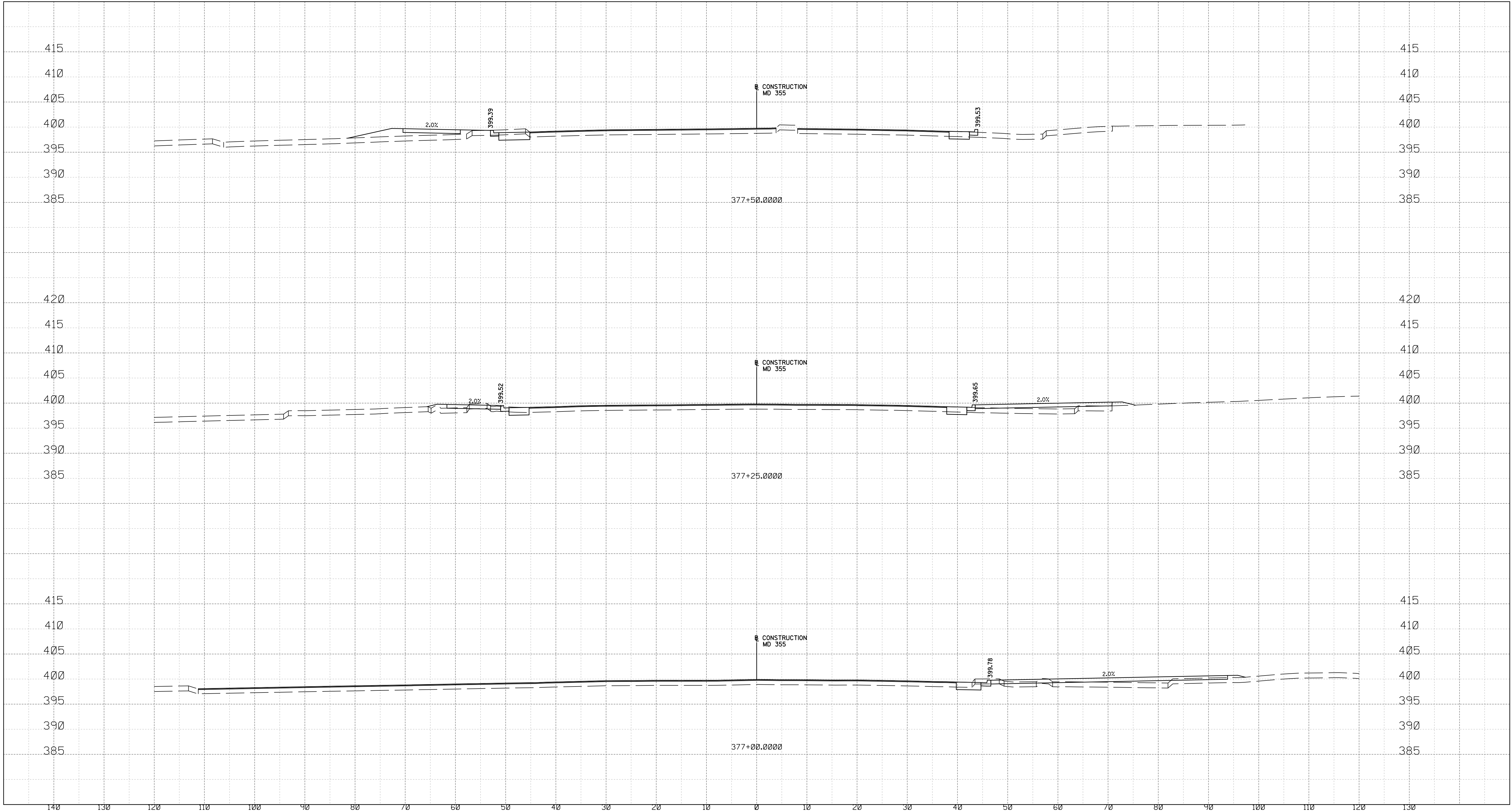
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
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WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS ROADWAY CROSS SECTIONS	
SCALE : 1" = 10'	DATE : JUNE 2020
Project No. : 502106	SHEET 29 of 38

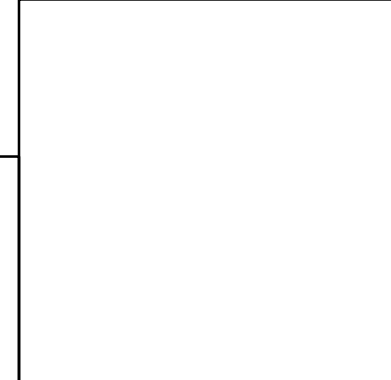
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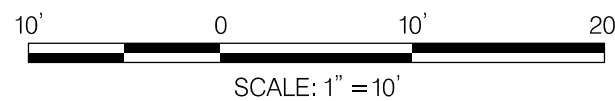
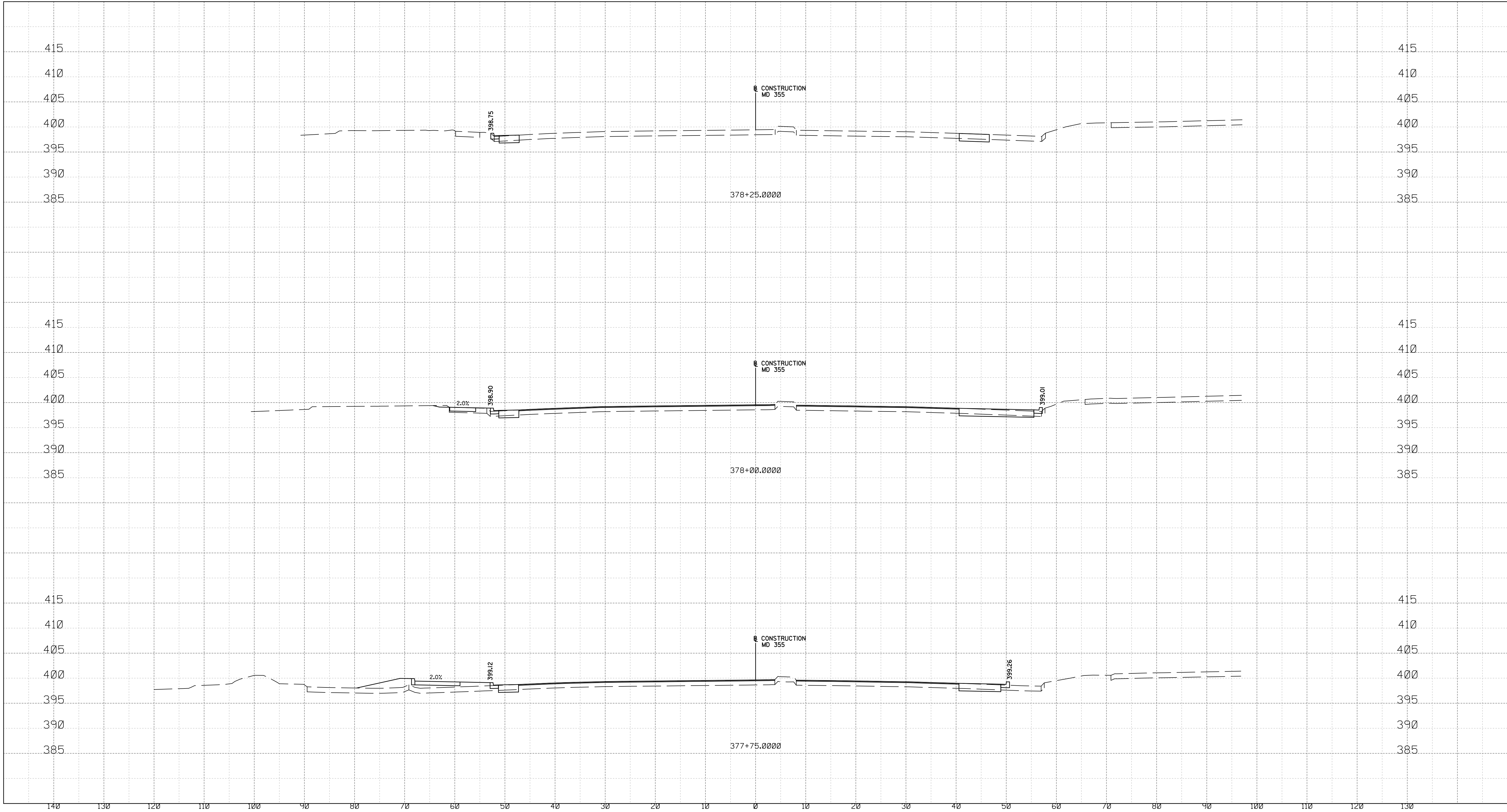
XS-09

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

SCALE : 1" = 10'      DATE : JUNE 2020  
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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
DIVISION OF TRANSPORTATION ENGINEERING  
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED

Date

Chief, Division of Transportation Engineering

Date

Designed by : \_\_\_\_\_

Drawn by : \_\_\_\_\_

Checked by : \_\_\_\_\_

XS-10

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS

ROADWAY CROSS SECTIONS

SCALE : 1" = 10'

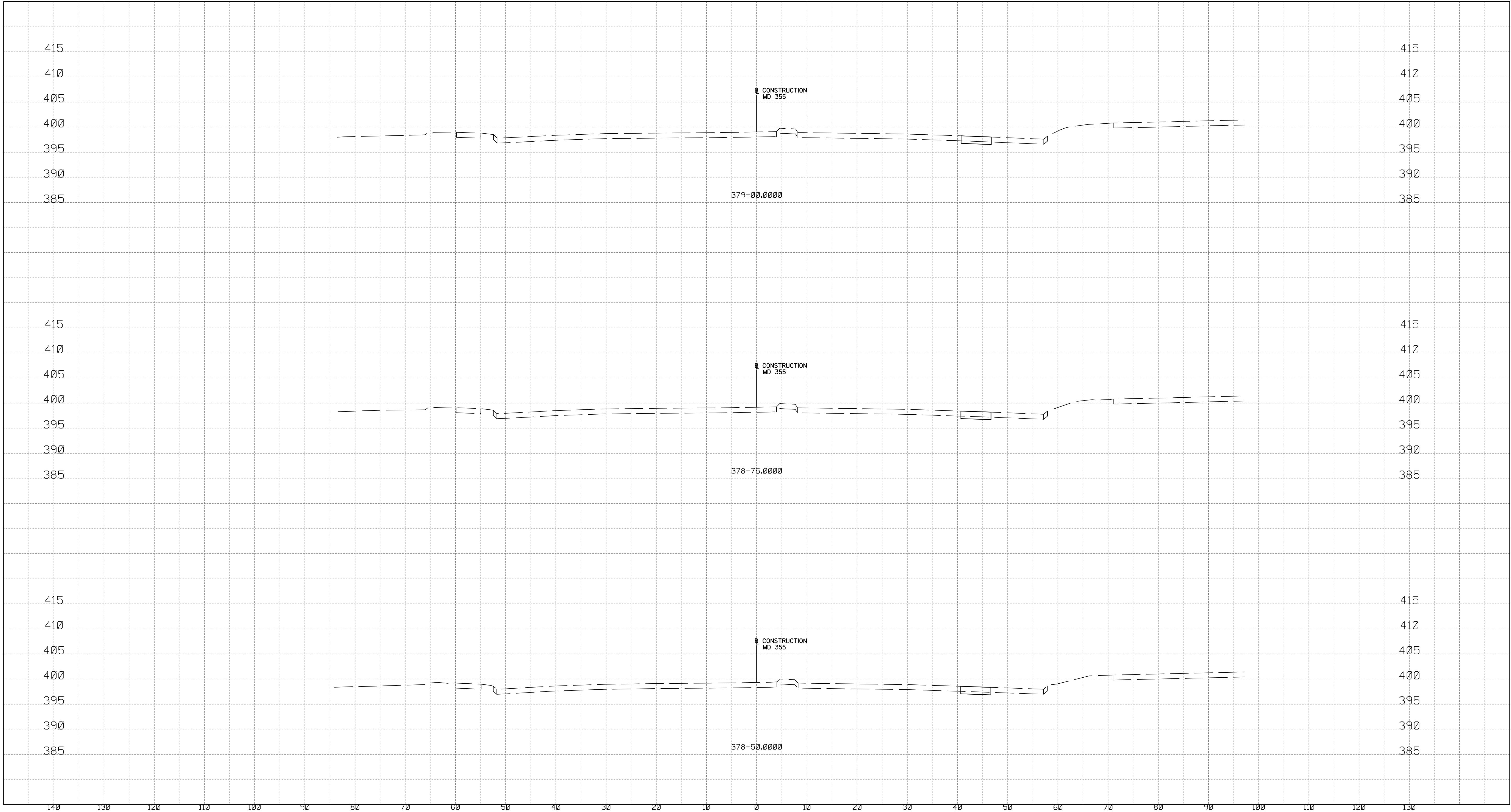
DATE : JUNE 2020

Project No. : 502106

SHEET 31 of 38



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RECOMMENDED FOR APPROVAL		
_____ Chief, Design Section		_____ Date
APPROVED		
_____ Chief, Division of Transportation Engineering		_____ Date
Designed by : _____ Drawn by : _____ Checked by : _____		

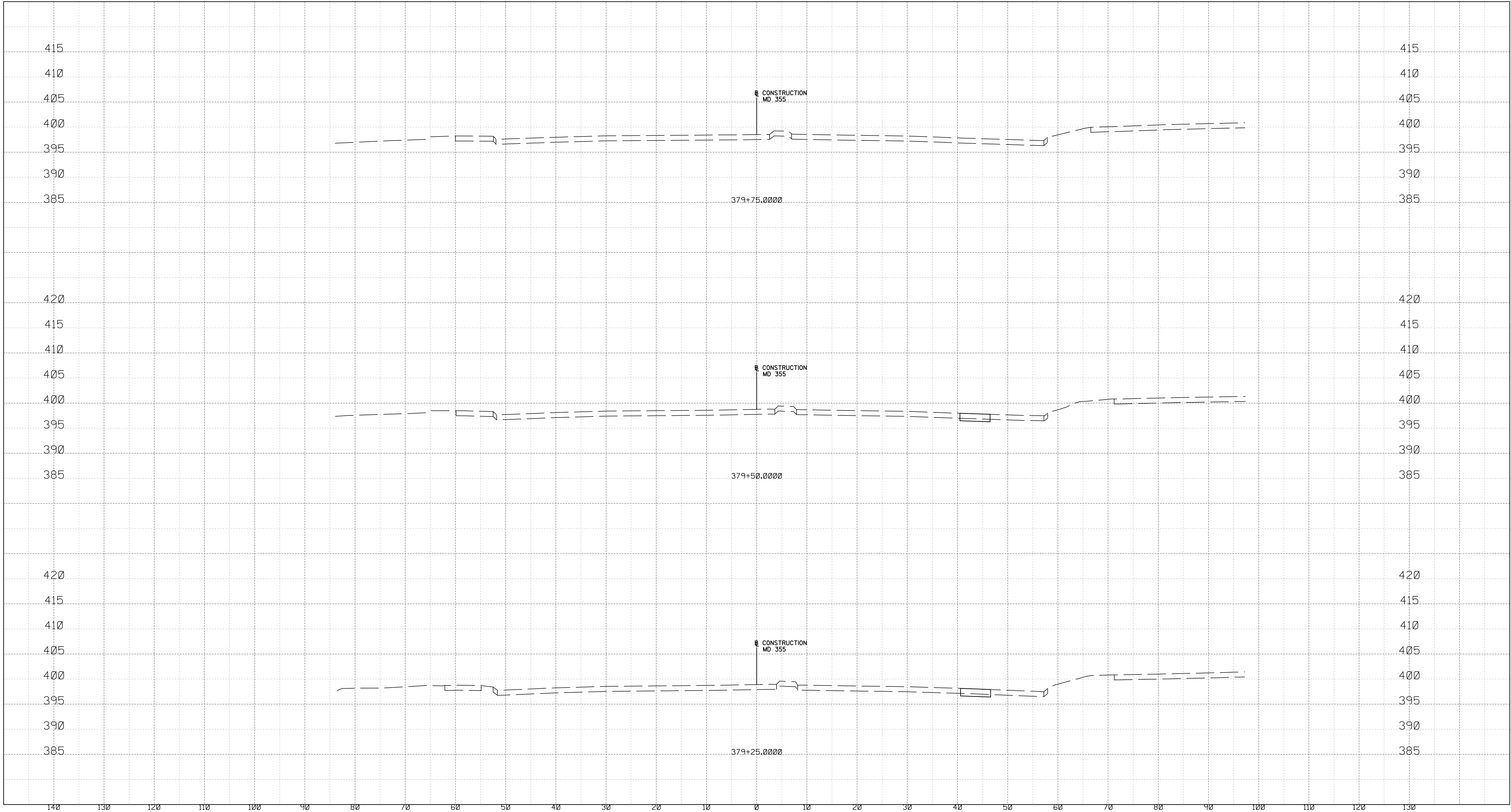
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WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

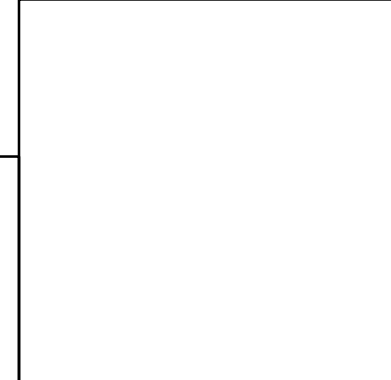
SCALE : 1" = 10'      DATE : JUNE 2020  
Project No. : 502106      SHEET 32 of 38



Thursday, January 21, 2021 AT 05:10 PM  
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LICENSE NO: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_



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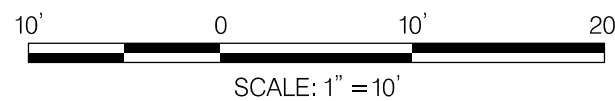
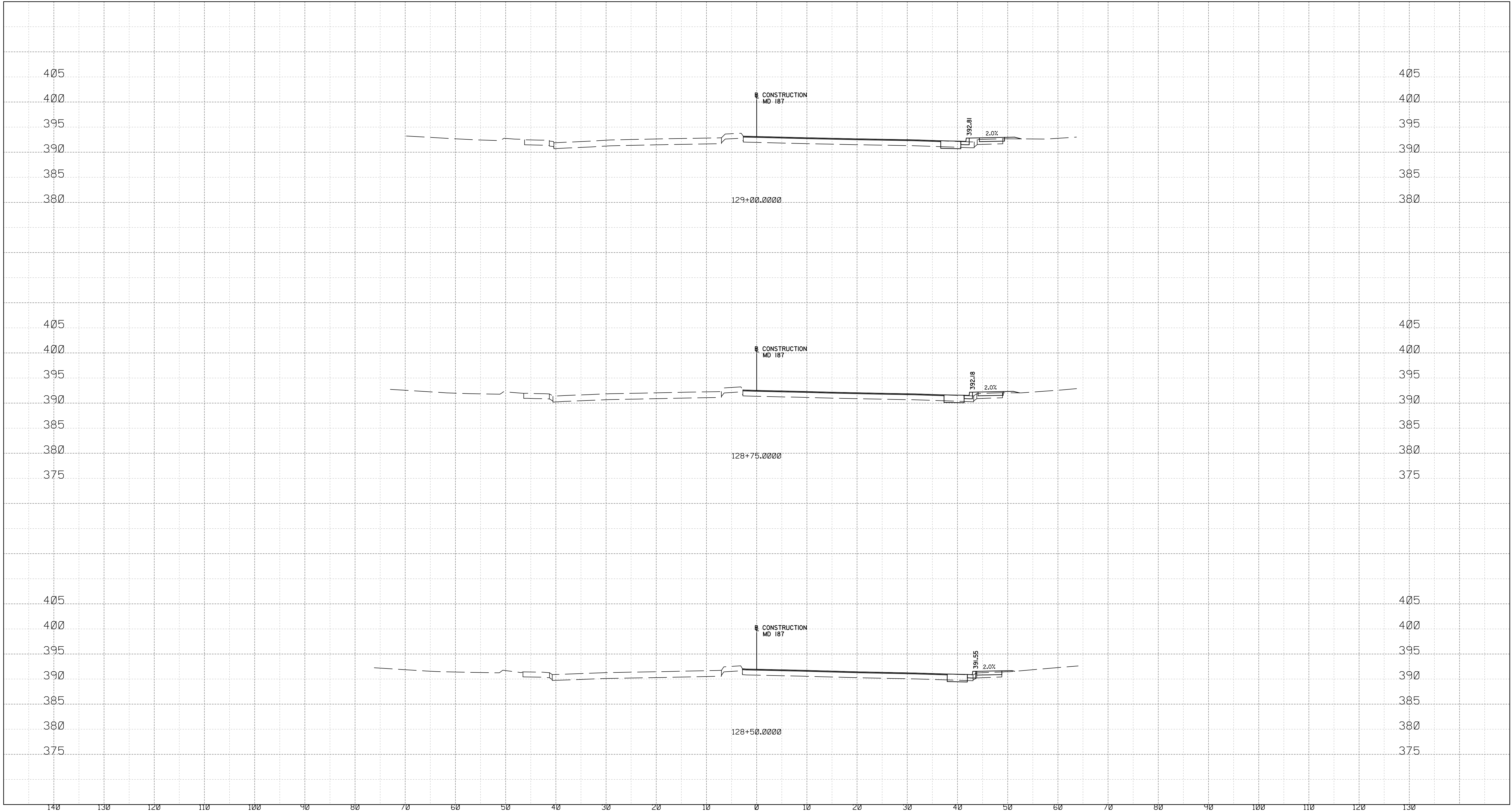
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS ROADWAY CROSS SECTIONS	
SCALE : 1" = 10'	DATE : JUNE 2020
Project No. : 502106	SHEET 33 of 38

XS-12



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GAITHERSBURG, MARYLAND

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Chief, Design Section  
APPROVED

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Chief, Division of Transportation Engineering

Date

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Drawn by : \_\_\_\_\_

Checked by : \_\_\_\_\_

XS-13

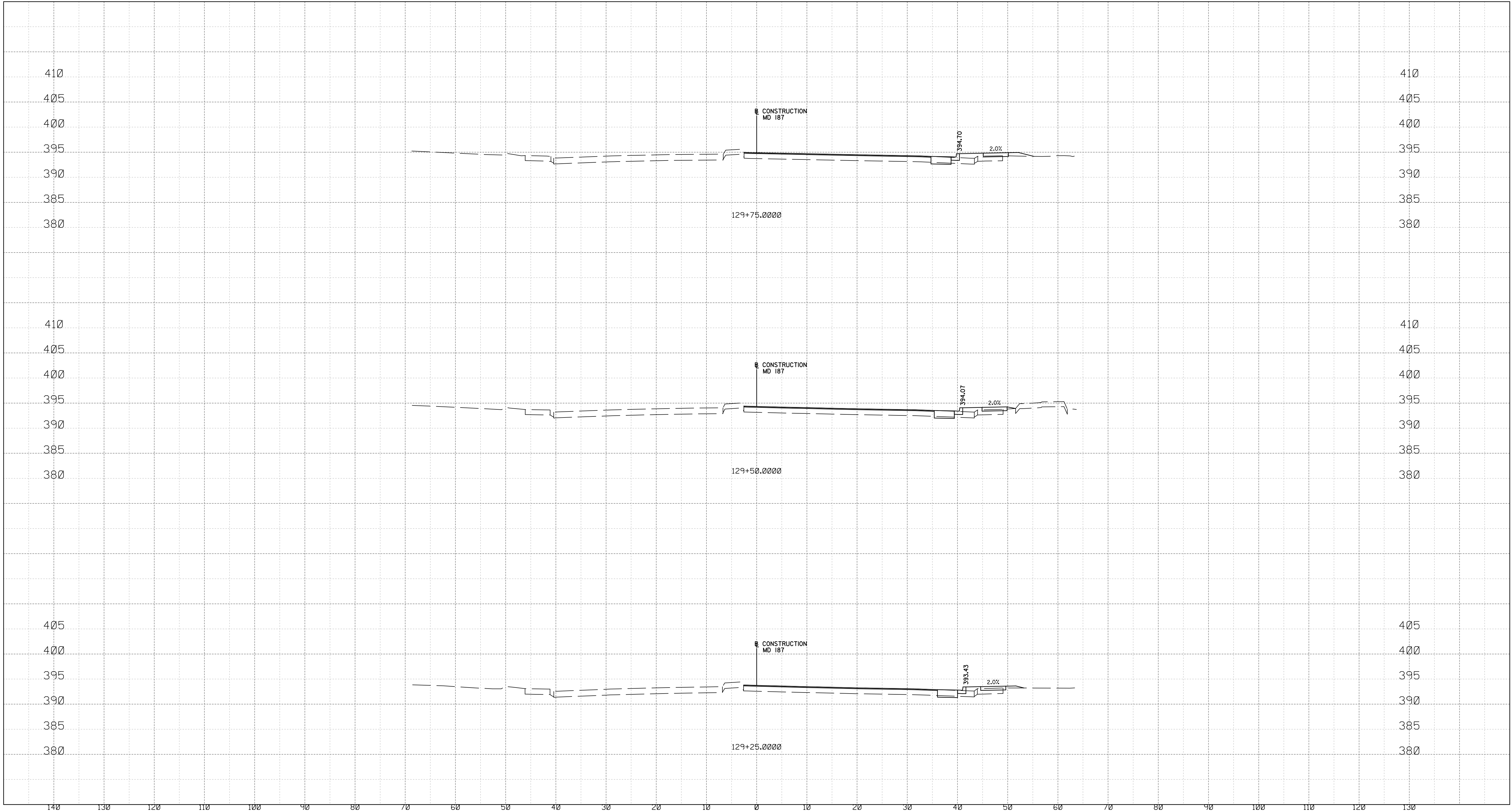
WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

SCALE : 1" = 10'      DATE : JUNE 2020

Project No. : 502106      SHEET 34 of 38



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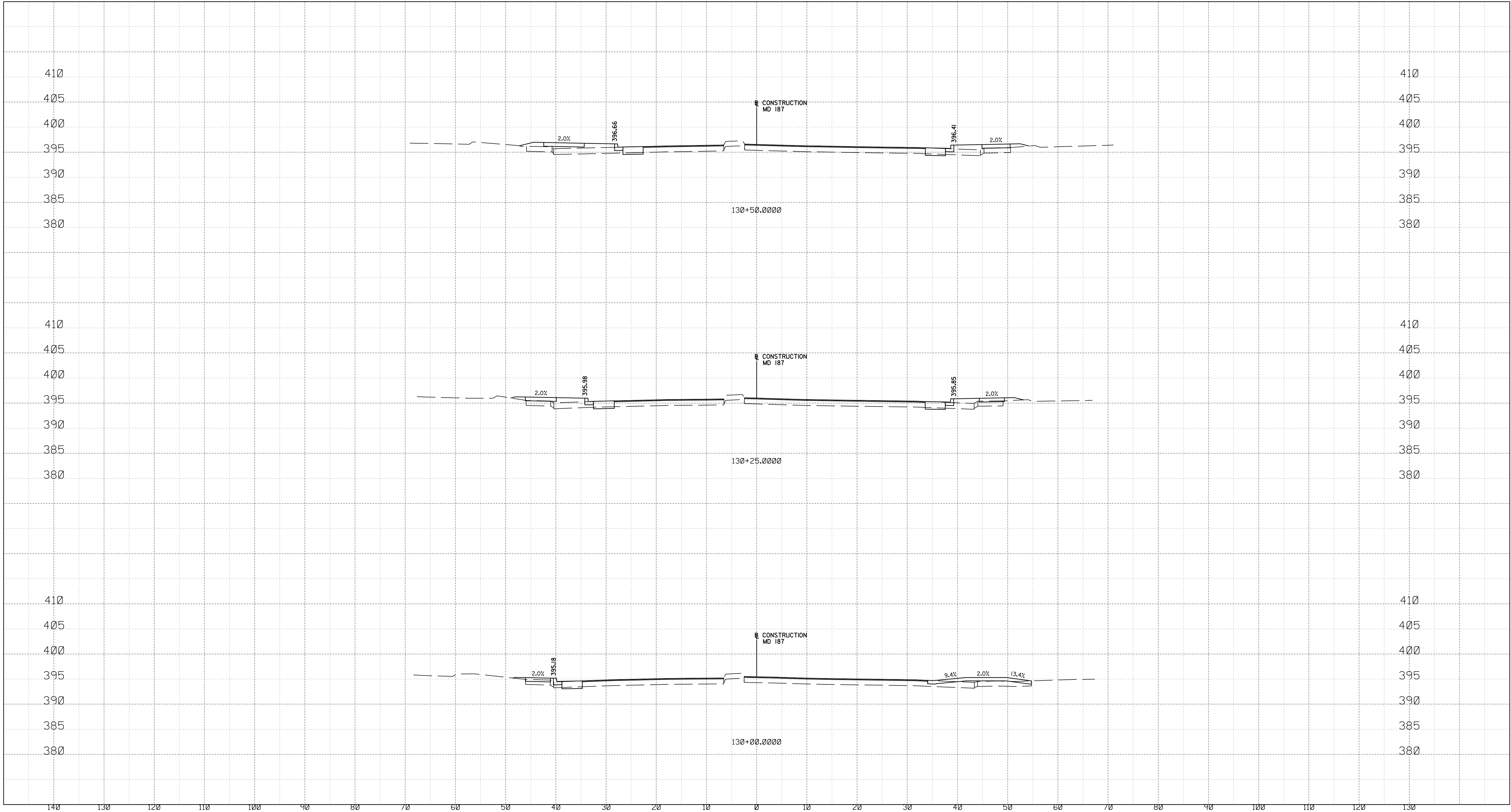
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
Designed by : _____	Drawn by : _____
Checked by : _____	

WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS ROADWAY CROSS SECTIONS	
SCALE : 1" = 10'	DATE : JUNE 2020
Project No. : 502106	SHEET 35 of 38

XS-14



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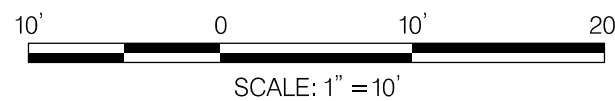
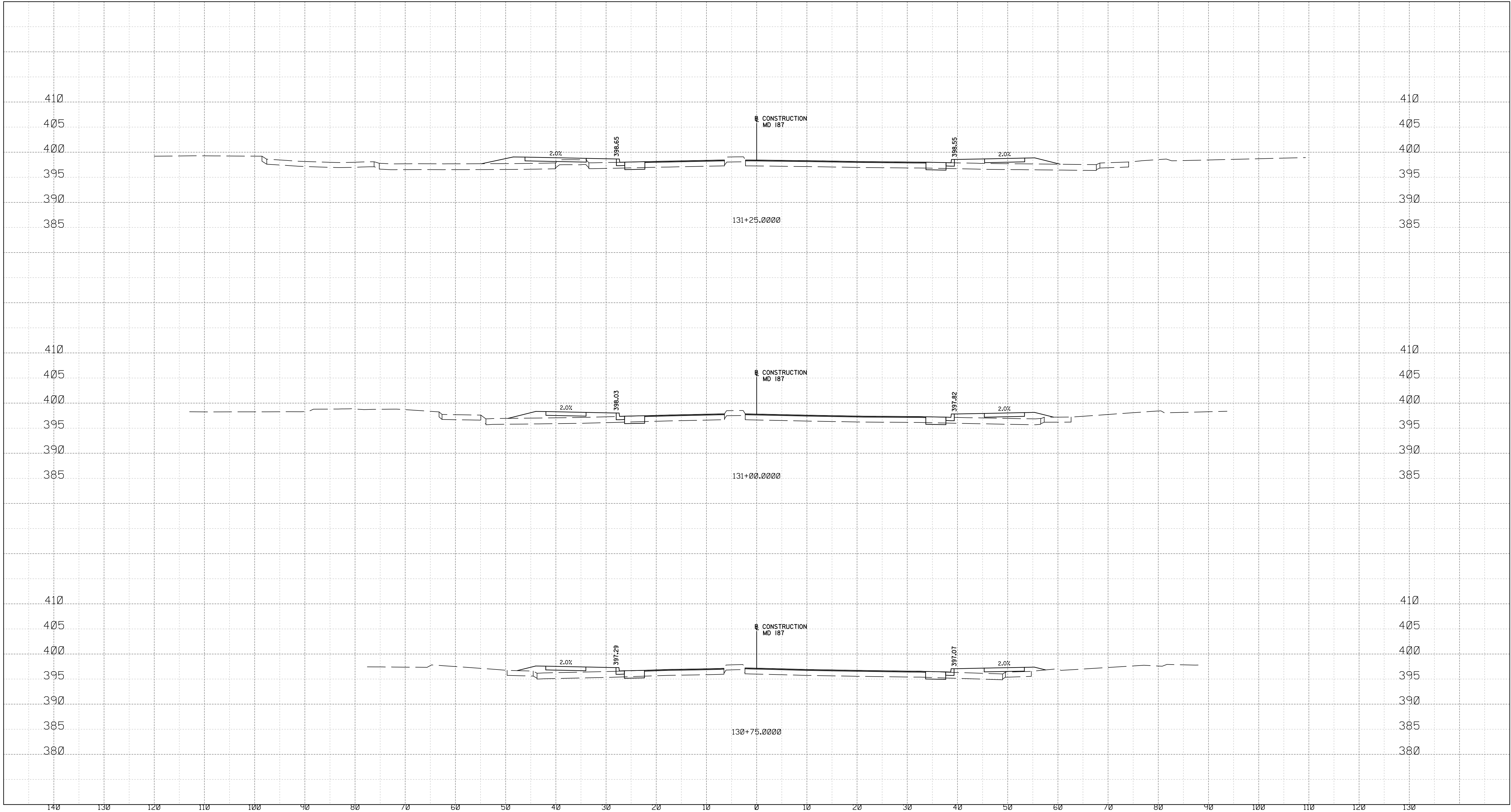
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
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Chief, Design Section	Date
APPROVED	
Chief, Division of Transportation Engineering	Date
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WHITE FLINT STATION PEDESTRIAN ACCESS IMPROVEMENTS ROADWAY CROSS SECTIONS	
SCALE : 1" = 10'	DATE : JUNE 2020
Project No. : 502106	SHEET 36 of 38

XS-15



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GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED

Date

Chief, Division of Transportation Engineering

Date

Designed by : \_\_\_\_\_

Drawn by : \_\_\_\_\_

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XS-16

WHITE FLINT STATION  
PEDESTRIAN ACCESS IMPROVEMENTS  
ROADWAY CROSS SECTIONS

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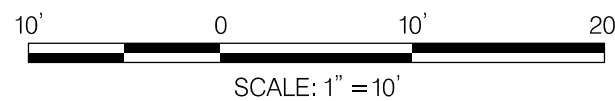
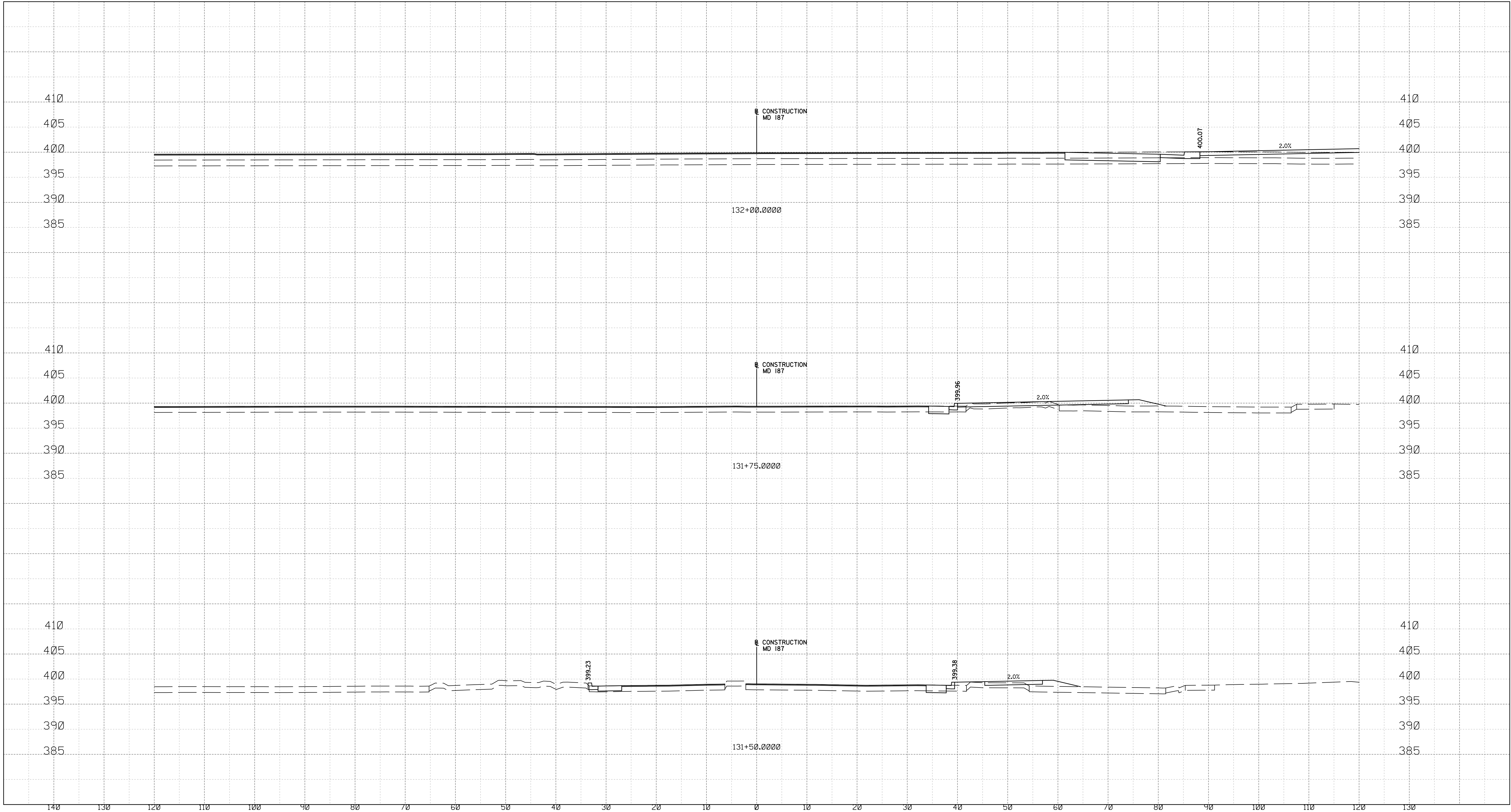
DATE : JUNE 2020

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SHEET 37 of 38



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GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section  
APPROVED

Date

Chief, Division of Transportation Engineering

Date

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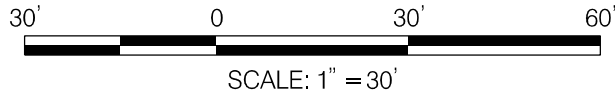
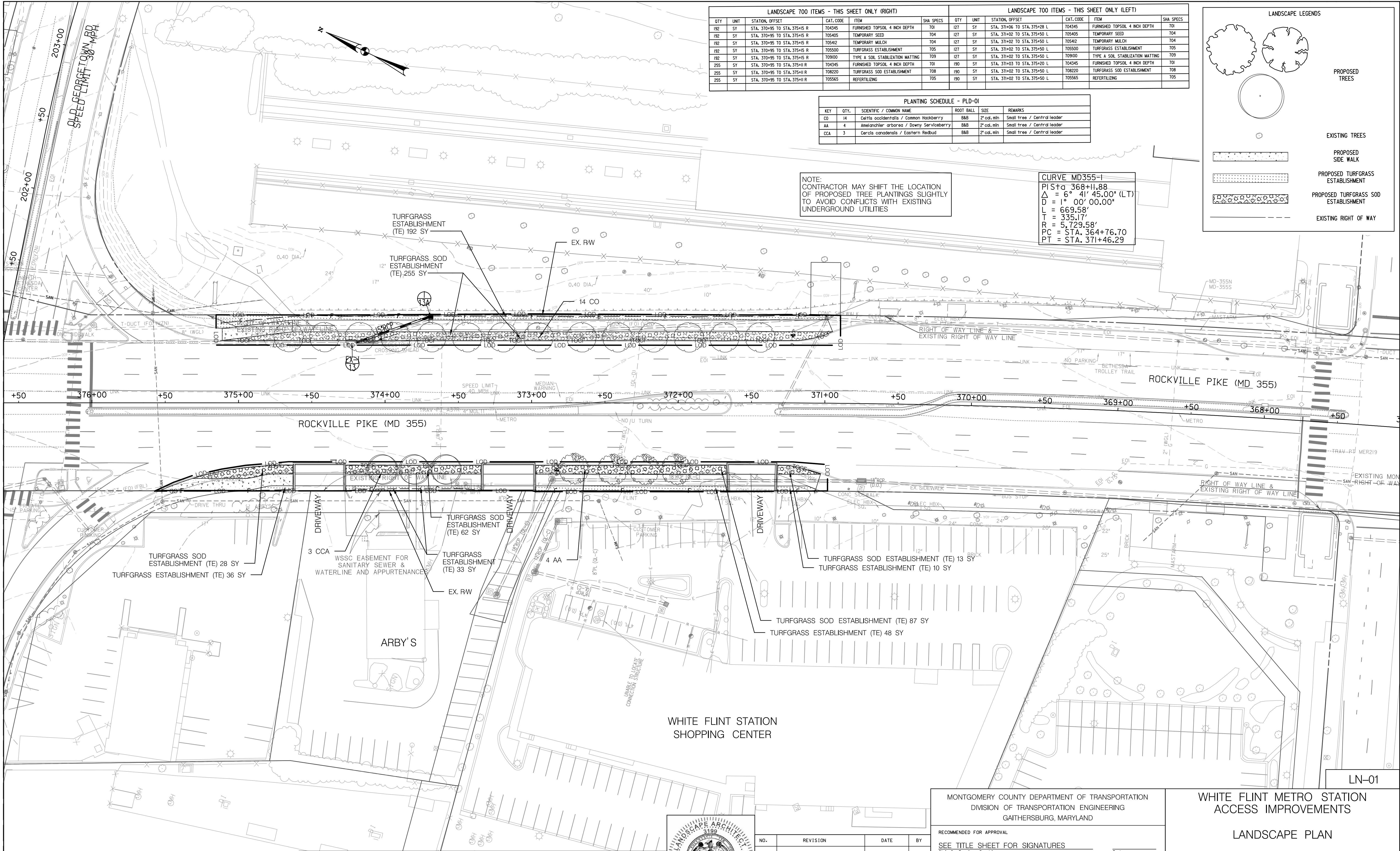
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ROADWAY CROSS SECTIONS

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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
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APPROVED	
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WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
LANDSCAPE PLAN	
SCALE : 1" = 30'	DATE : FEB 2021 021
Project No. : 502106	SHEET 08 of 28



7.1 LANDSCAPE NOTES, LANDSCAPE CONSTRUCTION WITHIN THE RIGHT OF WAY OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) AND WITHIN SHA PROPERTY, EASEMENT AREAS AND LANDS TO BE CONVEYED TO SHA/MTA 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](http://www.roads.maryland.gov/index.aspx?pageid=25)

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.

7.5 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 "SAME 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 REDISTURBANCE 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.

7.8 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.

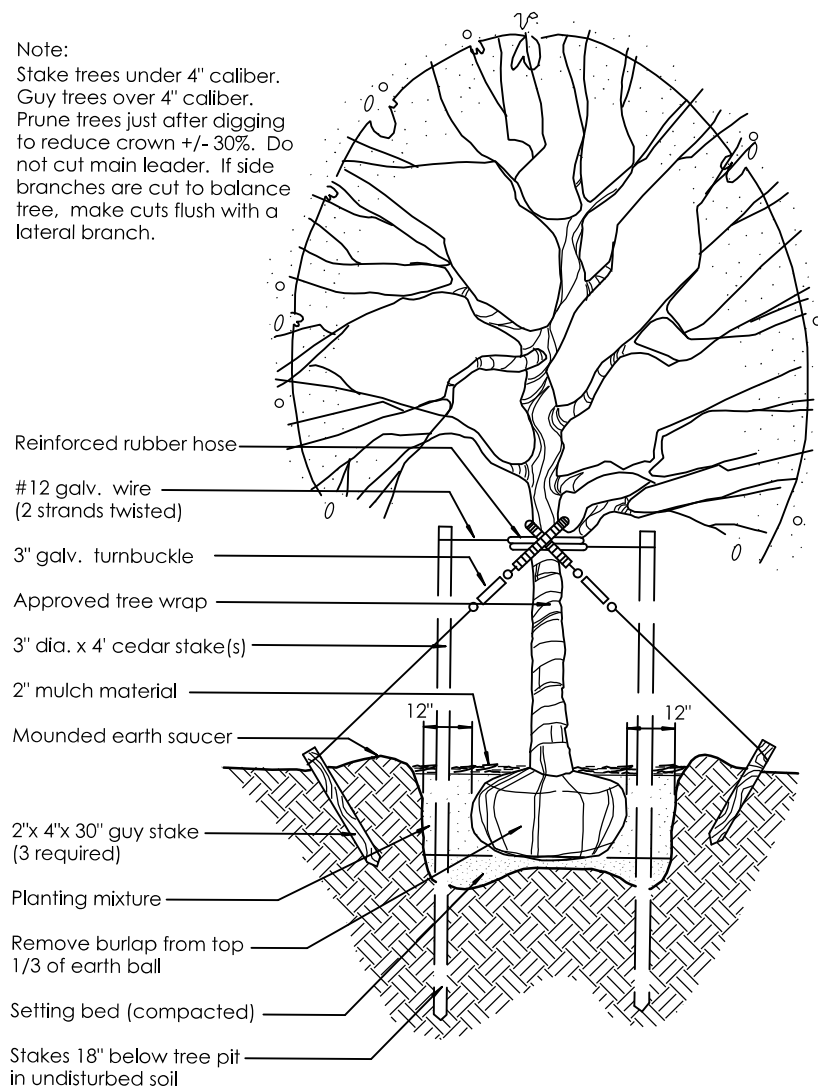
3. BIOME (ENTONTO SOIL MIX (BSM) AND OTHER MATERIALS INSTALLED IN CONJUNCTION WITH SPI 316 - STORMWATER FILTRATION FACILITIES AND SHA STORMWATER DETAILS SHALL BE INSTALLED IN CONFORMANCE WITH THE SHA LANDSCAPE NOTES AND LANDSCAPE PLANS. PLANT MATERIALS AND MULCH SHALL BE INSTALLED IN BSM IN CONFORMANCE WITH STORMWATER DETAILS, SECTION 710 OR OTHER SHA SPECIFICATIONS.

1.10 TURFGRASS ESTABLISHMENT SHALL BE PERFORMED IN ALL DISTURBED AREAS, OR WITHIN THE AREAS INDICATED IN THE PLANS, IN CONFORMANCE WITH SECTION 705 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.

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 BINDR IN CONJUNCTION WITH TURFGRASS ESTABLISHMENT, UNLESS DELINEATED AND NOTED OTHERWISE.

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.

MASTER PLANTING SCHEDULE						
KEY	QTY.	SCIENTIFIC / COMMON NAME	ROOT BALL	SIZE	REMARKS	
CO	14	<i>Celtis occidentalis</i> / Common Hackberry	B&B	2' cal. min	SndI tree / Central leader	
AA	4	<i>Amelanchier arborea</i> / Downy Serviceberry	B&B	2' cal. min	SndI tree / Central leader	
CCA	3	<i>Cercis canadensis</i> / Eastern Redbud	B&B	2' cal. min	SndI tree / Central leader	

[illegible]

## PLANTING DETAIL/DECIDUOUS TREES

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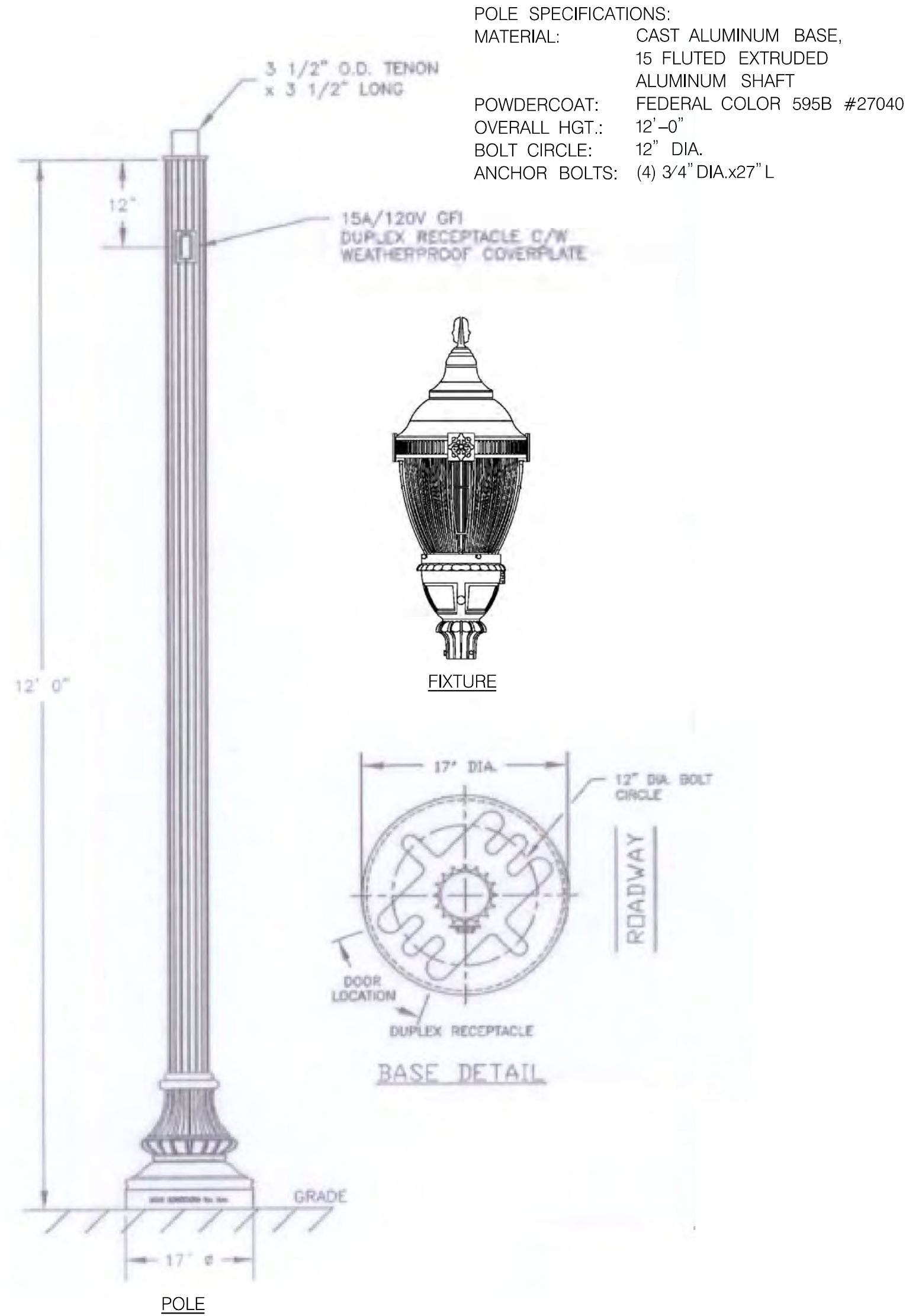
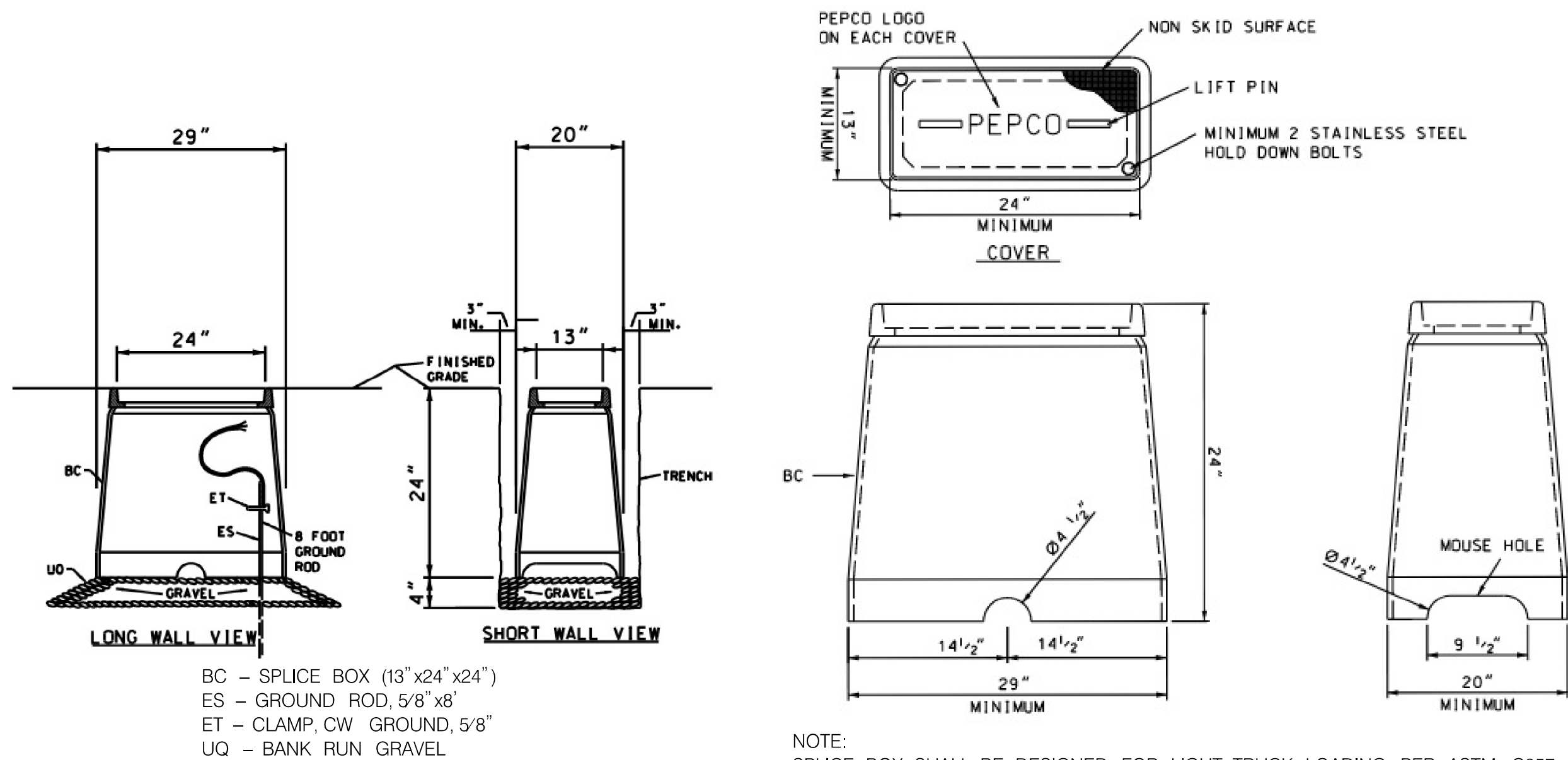
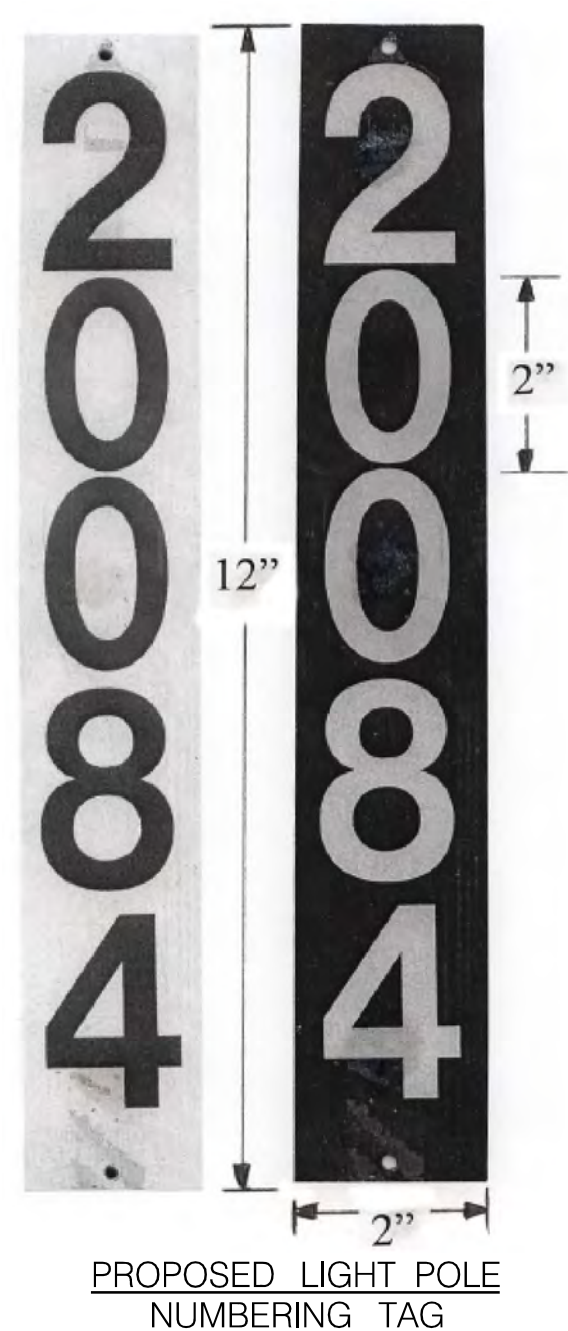
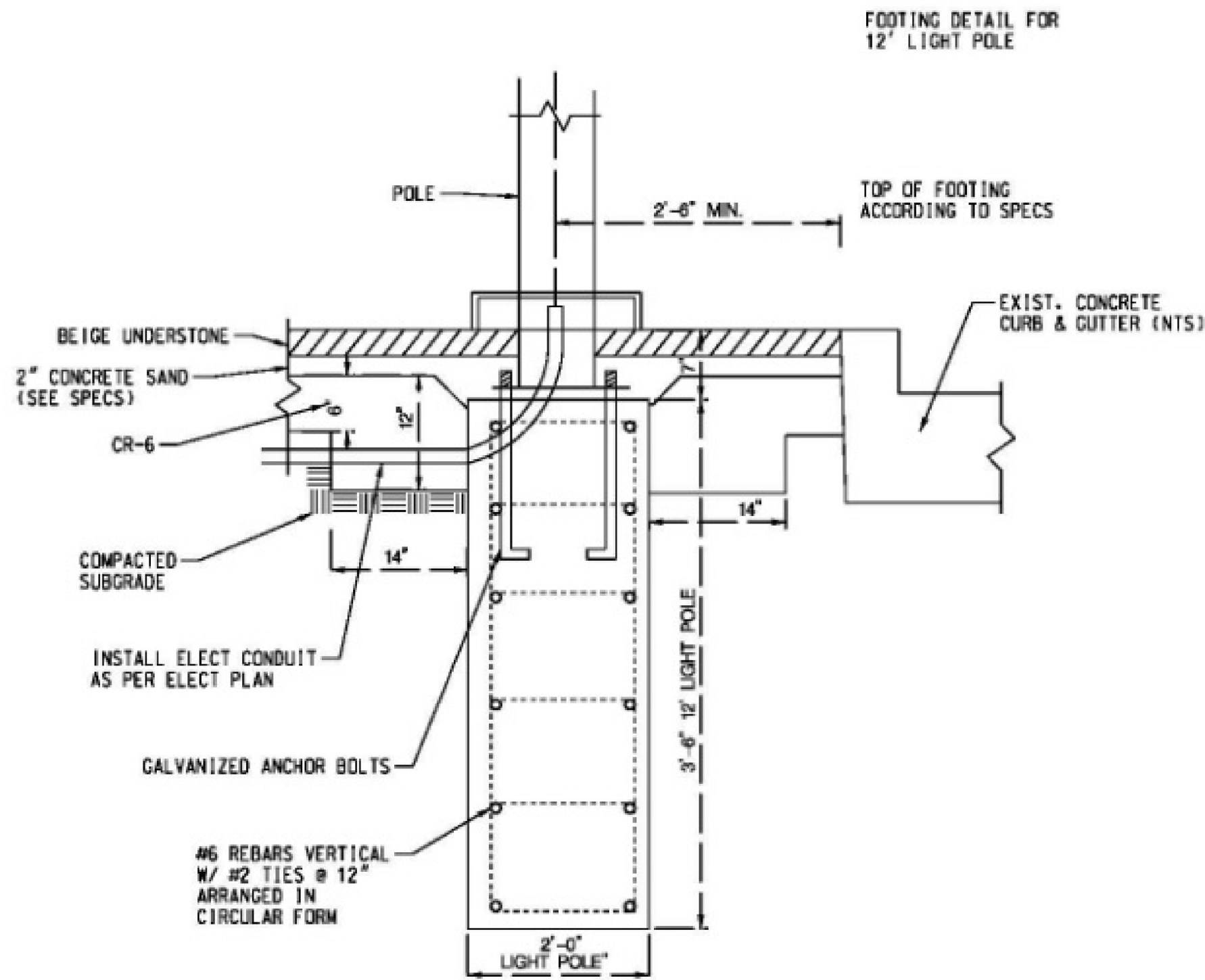
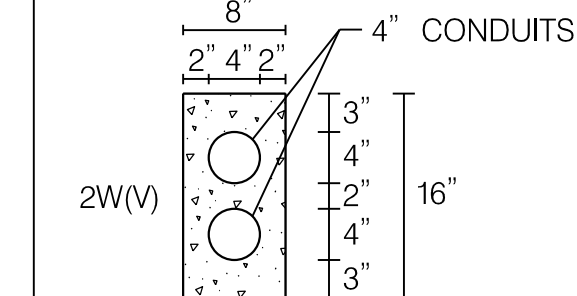
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		
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<u>SEE TITLE SHEET FOR SIGNATURES</u>		
Chief, Design Section	Date	
APPROVED		
<u>SEE TITLE SHEET FOR SIGNATURES</u>		
Chief, Division of Transportation Engineering	Date	
Designed by : _____	Drawn by : _____	Checked by : _____

Project No. : 502106 SHEET 09 of 2

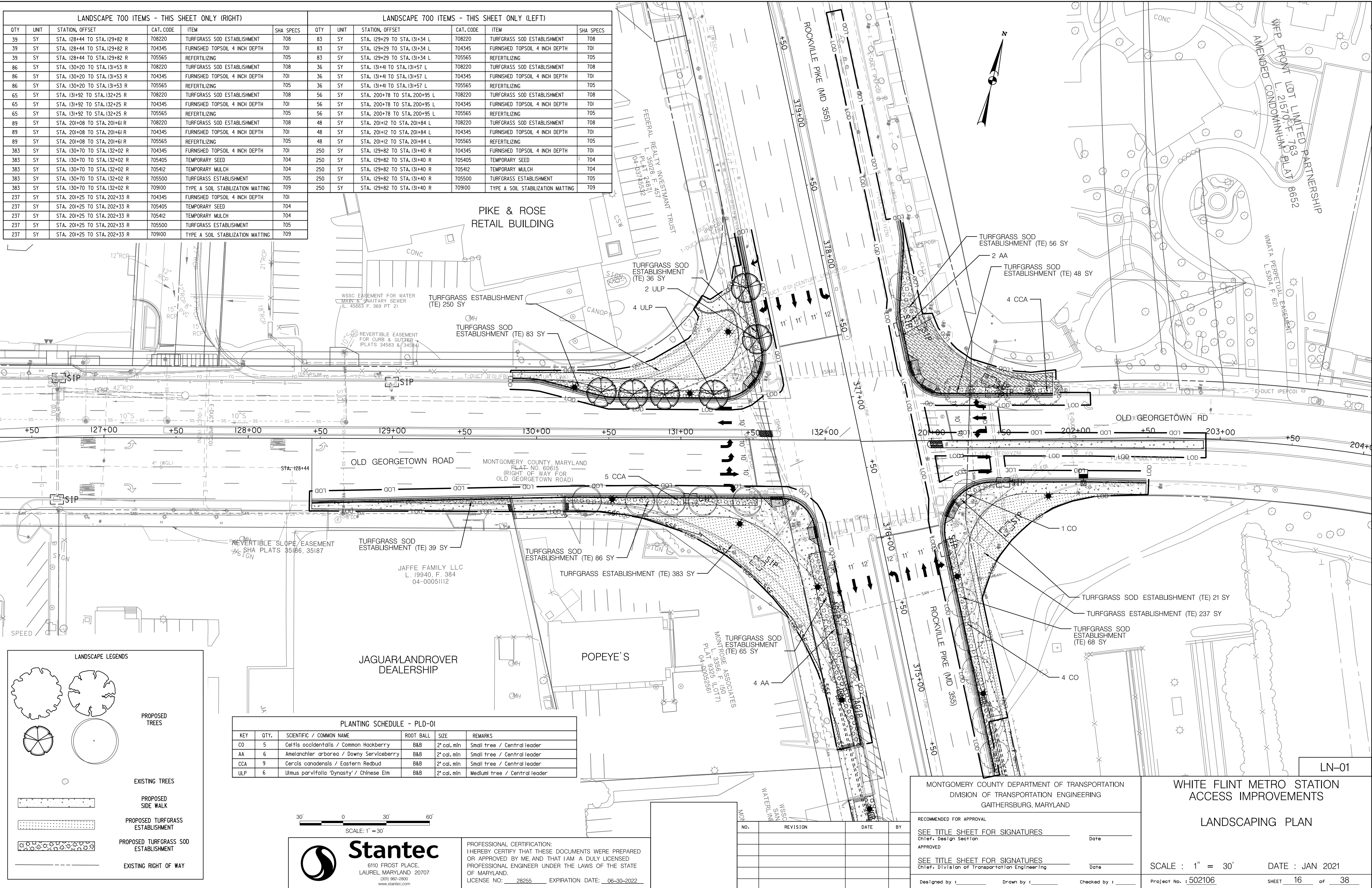


1. STREET LIGHT BASES AND LOCATIONS TO BE APPROVED BY MONTGOMERY COUNTY.
2. ALL MATERIALS USED ARE TO CONFORM TO PEPCO SPECIFICATIONS.
3. DAMAGE TO ANY UTILITIES OCCURRED BY THE CONTRACTOR DURING THE INSTALLATION OF LIGHTING FACILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND ALL LOCAL CODES AND REGULATIONS.
5. ALL MATERIAL ELECTRICAL DEVICES AND EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AND SHALL BE UL APPROVED AND LABELED UNLESS OTHERWISE SPECIFIED.
6. ALL CONDUIT INSTALLATIONS UNDER SIDEWALKS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE NEW SIDEWALKS.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL A POLYMER CONCRETE SPLICE BOX ADJACENT TO EACH STREETLIGHT (LOCATION AND SIZE AS SHOWN ON PLANS). SPLICE BOXES SHALL BE INSTALLED PARALLEL TO THE PATHWAY. THE SPLICE BOXES SHALL BE AS APPROVED BY PEPCO.

1. 2-WAY FOUR INCH (4"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING EACH SPLICEBOX IN A CONTINUOUS RUN.
2. TWO INCH (2"), SCHEDULE 40, PVC CONDUIT TO BE INSTALLED BY THE CONTRACTOR CONNECTING THE SPLICEBOX TO THE STREET LIGHT FOOTING.
3. CONTRACTOR TO PROVIDE AND INSTALL PHOTOCELLS FOR EACH STREET LIGHT LUMINAIRE.
4. STREETLIGHT AND POST ERECTED BY THE CONTRACTOR ARE TO BE WIRED WITH #10 AWG (MIN.) COPPER WITH A THREE FOOT MINIMUM LOOP OF SLACK IN THE SPLICEBOX FOR ATTACHMENT BY PEPCO.
5. STREETLIGHT POSTS ARE TO HAVE A GROUNDING LUG ATTACHED TO THE BASE OF THE POST WITH A MINIMUM THREE FOOT LOOP OF SLACK IN THE SPLICEBOX OF #6 AWG BARE COPPER WIRE ATTACHED.
6. ALL SWEEPBENDS TO BE MINIMUM OF 24 INCHES RADIUS.
7. 14" NYLON PULL-LINES IS TO BE INSTALLED IN EACH CONDUIT DUCT.
8. CONTRACTOR TO INSTALL MARKING TAPE ONE FOOT (1") ABOVE EACH CONDUIT RUN.
9. NO MORE THAN 180 DEGREES OF BENDS IN A CONDUIT RUN.
10. CONDUIT IS TO HAVE THREE (3) FEET (MINIMUM) OF COVER OVER IT.
11. INSTALLATION OF ALL UNDERGROUND LIGHTING FACILITIES ARE ALSO SUBJECT TO PEPCO INSPECTION AND WRITTEN APPROVAL BEFORE CONCEALMENT. FAILURE TO OBTAIN SUCH INSPECTION WILL RESULT IN THE UNCOVERING OF FACILITIES AT THE CONTRACTOR'S EXPENSE. CALL (202) 388-2137 7:00 TO 9:00 AM OR 3:00 TO 4:00 PM TWO WORKING DAYS IN ADVANCE TO ARRANGE INSPECTION.
12. ALL STREETLIGHT EQUIPMENT AND MATERIALS SHALL BE SUBMITTED TO MONTGOMERY COUNTY FOR APPROVAL PRIOR TO BEING INSTALLED ON THE PROJECT. SEE SPECIAL PROVISIONS FOR STREETLIGHT SPECIFICATIONS.
13. ALL STREETLIGHTS SHALL BE INSTALLED 2'-6" BEHIND THE FACE OF THE CURB (EXCEPT AS NOTED ON PLANS).
14. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS / CATALOG CUTS FOR ALL LIGHTING EQUIPMENT TO MONTGOMERY COUNTY TRAFFIC OPERATIONS DIVISION FOR APPROVAL PRIOR TO INSTALLATION.









7.1 LANDSCAPE NOTES, LANDSCAPE CONSTRUCTION WITHIN THE RIGHT OF WAY OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (SHA) AND WITHIN SHA PROPERTY, EASEMENT AREAS AND LANDS TO BE CONVEYED TO SHA/MTA 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](http://www.roads.maryland.gov/index.aspx?pageid=25)

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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 TRUFGRASS ESTABLISHMENT PER SECTION 705 OR MEADOW ESTABLISHMENT PER SECTION 707 AS FOLLOWS:

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) OF THE MARYLAND DEPARTMENT OF NATURAL RESOURCES, OR THE APPROVED FOREST CONSERVATION ACT PLAN OF THE LOCAL AUTHORITY.

- 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.

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PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE  
OF MARYLAND.  
LICENSE NO: \_\_\_\_\_ EXPIRATION DATE: \_\_\_\_\_

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND		
RECOMMENDED FOR APPROVAL		
SEE TITLE SHEET FOR SIGNATURES _____ Chief, Design Section		_____ Date
APPROVED		
SEE TITLE SHEET FOR SIGNATURES _____ Chief, Division of Transportation Engineering		_____ Date
Designed by : _____	Drawn by : _____	Checked by : _____

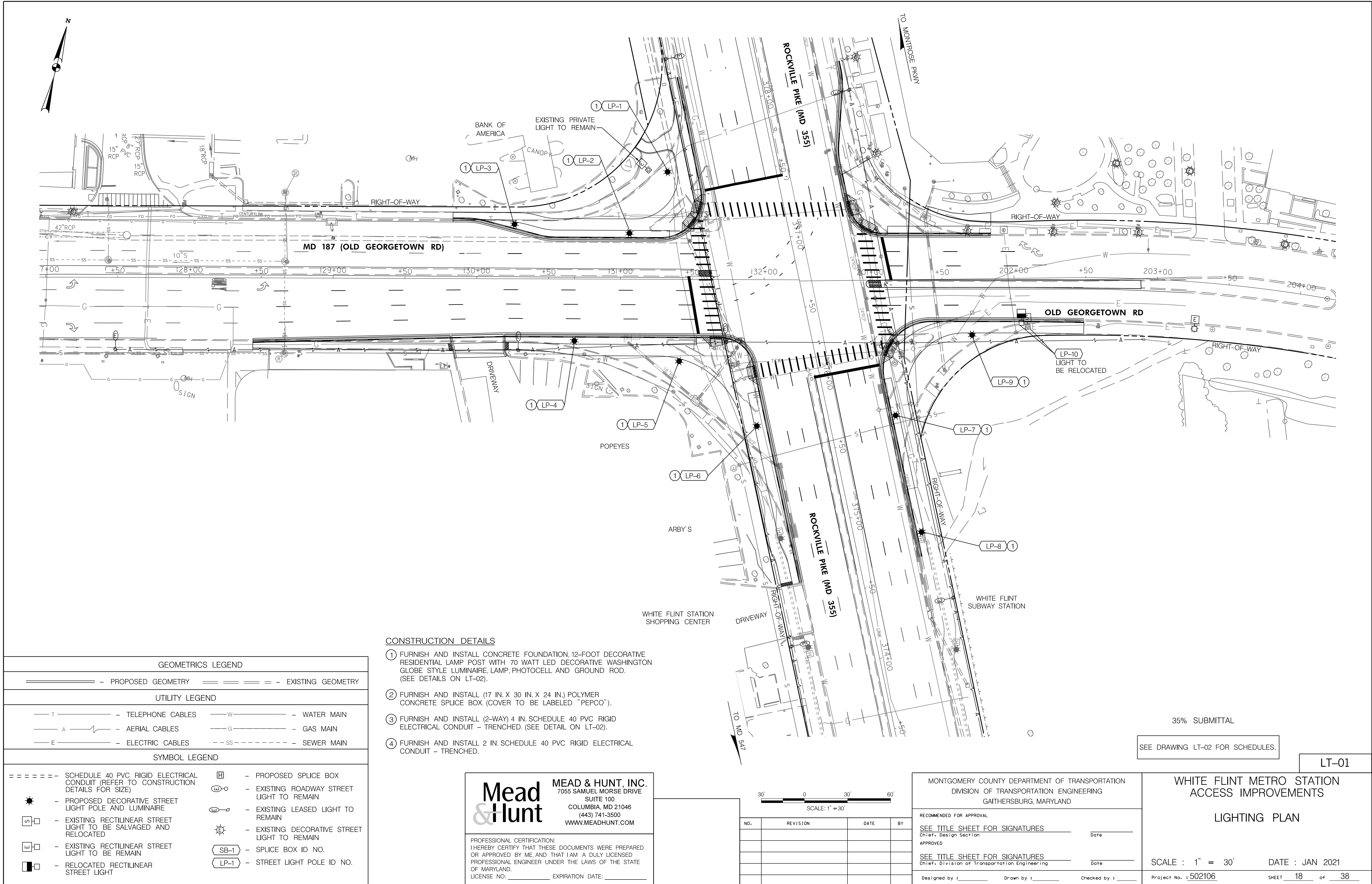
## LANDSCAPING NOTES & DETAILS

SCALE : 1" = 30'      DATE : JAN 2021

Project No. : 502106 SHEET 17 of 38



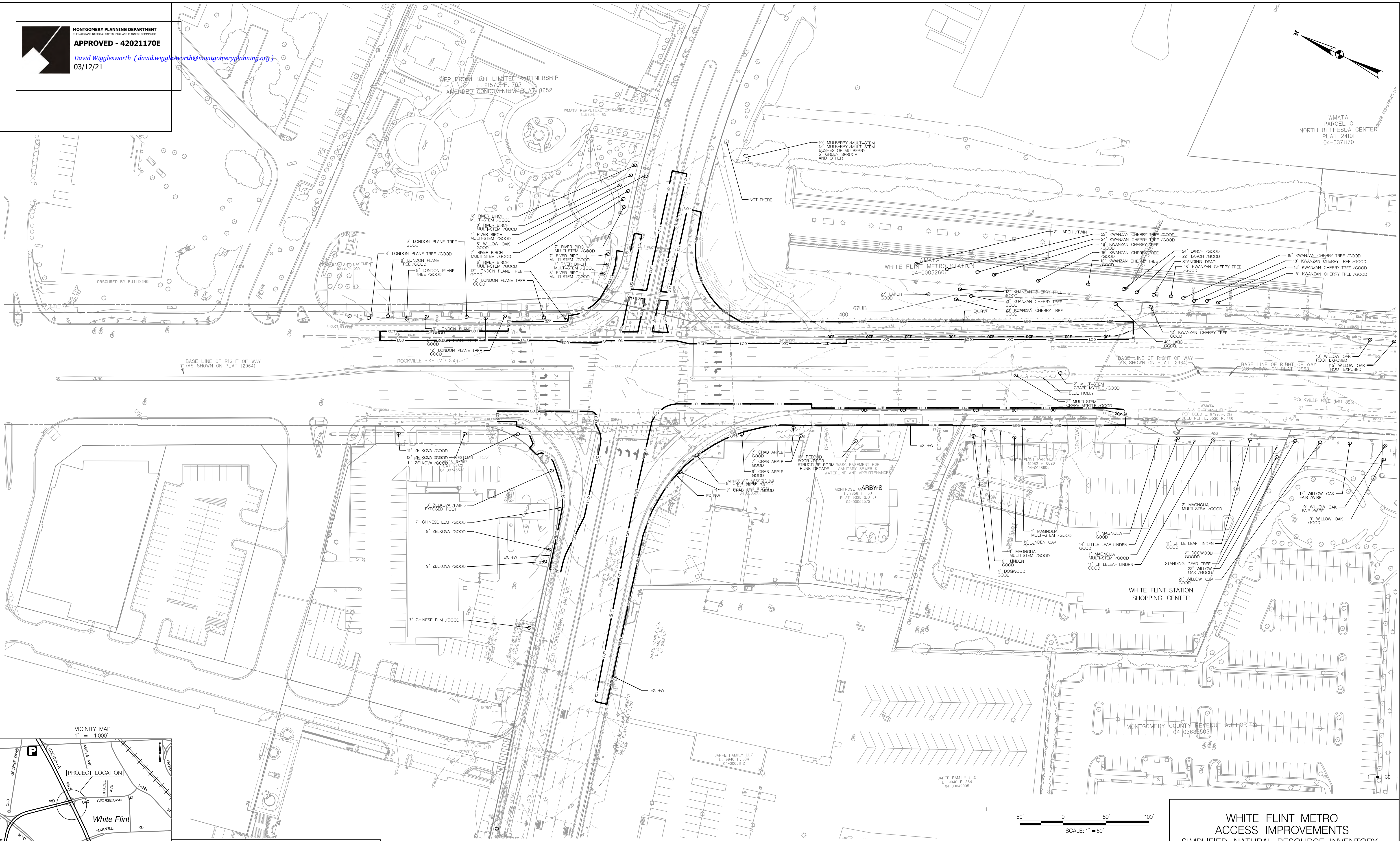
1/22/2021 X:\4664226\202088.0\TECH\CAD\Drawings\Lighting\Phase 2\pLT-001.WF Metro - Phase 2.dgn











LEGEND  
EX. MAJOR CONTOURS — 295 —  
EX. MINOR CONTOURS — 100 —  
LIMIT OF DISTURBANCE — 100 —  
TREE ≥ 4" DBH (SURVEYED) — 100 —  
PROPERTY BOUNDARY — 100 —  
SOIL BOUNDARY — 67UB —



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FAX: (410) 583-6704

NO.	REVISION	DATE	BY

QUALIFIED PROFESSIONAL CERTIFICATION:  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME.

SIGNED:  DATE: 03/12/2021  
HARRY CANFIELD, STANTEC CONSULTING SERVICES INC.  
810 GLENEAGLES COURT, SUITE 300  
BALTIMORE, MD 21286

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

Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_

WHITE FLINT METRO  
ACCESS IMPROVEMENTS  
SIMPLIFIED NATURAL RESOURCE INVENTORY  
AND FOREST STAND DELINEATION  
PLAN NO. 42021170E  
TAX MAPS HQ12 & GQ62: WSSC GRID 215NW05 & 215NW06

SCALE : 1" = 50' DATE : MARCH 2021

Project No. : \_\_\_\_\_ SHEET 1 of 2





NRI/FSD PLAN NOTES

1. APPLICANT/OWNER IS:  
REBECCA PARK, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878
2. THE TRACT AREA IS 1.41 ACRES.
3. THIS NRI/FSD WAS PREPARED FOR THE WHITE FLINT METRO STATION ACCESS IMPROVEMENTS PROJECT.
4. THE TRACT AREA IS LOCATED ENTIRELY WITHIN MDOT SHA AND MONTGOMERY COUNTY DOT RIGHT OF WAY.
5. THE TRACT AREA IS WITHIN THE CABIN JOHN CREEK (DNR 8-DIGIT 02140207) AND ROCK CREEK WATERSHEDS (DNR 8-DIGIT 02140206).
6. THE STREAM DESIGNATED USE CLASS ARE MD USE CLASS I.
7. THE TRACT AREA IS NOT LOCATED WITHIN A SPECIAL PROTECTION AREA.
8. THERE IS NO 100-YR FLOODPLAIN IN THE PROJECT AREA PER THE COUNTY FLOODPLAIN MAP.
9. THERE ARE NO WJLS OR WETLANDS WITHIN THE PROJECT AREA BASED ON A STUDY CONDUCTED BY STANTEC ON 2/16/2021.
10. THERE ARE NO MD DNR RECORDS FOR LISTED PLANT OR ANIMAL SPECIES WITHIN THE PROJECT AREA.  
NO LISTED SPECIES WERE OBSERVED ON THE SITE.
11. NO PART OF THE TRACT IS ON THE LOCATIONAL ATLAS AND INDEX OF HISTORIC SITES.
12. THERE ARE NO NATIONAL, STATE, OR COUNTY CHAMPION TREES ON THE TRACT.
13. THERE ARE NO TREES THAT ARE AT LEAST 75% OF THE CURRENT STATE CHAMPION.
14. TREES WERE MEASURED USING A FORESTRY DIAMETER TAPE.
15. NRI/FSD FIELD WORK AND TREE SURVEY WAS CONDUCTED BY KATHLEEN DAHILL, STANTEC ON NOVEMBER 6, 2020.

RESOURCE DATA TABLE

ACREAGE OF SITE	1.41
ACREAGE OF FOREST	0.00
ACREAGE OF FLOODPLAIN	0.00
ACREAGE OF FOREST IN FLOODPLAIN	0.00
ACREAGE OF STREAM BUFFER	0.00
ACREAGE OF FOREST IN STREAM BUFFER	0.00
ACREAGE OF WETLANDS	0.00

SOIL TABLE

SOIL MAP UNIT	NAME	HYDRIC INCLUSION	HYDRIC	HIGHLY ERODIBLE	PRIME FARMLAND
400	URBAN LAND	NO	NO	NO	NO
67UB	URBAN LAND-WHEATON COMPLEX, 0-8% SLOPES	5%	NO	NO	NO

SEQUENCE OF EVENTS FOR PROPERTIES REQUIRED TO COMPLY WITH FOREST CONSERVATION PLANS, EXEMPTIONS FROM SUBMITTING FOREST CONSERVATION PLANS, AND TREE SAVE PLANS

THE PROPERTY OWNER IS RESPONSIBLE FOR ENSURING ALL TREE PROTECTION MEASURES ARE PERFORMED IN ACCORDANCE WITH THE APPROVED FINAL FOREST CONSERVATION PLAN OR TREE SAVE PLAN, AND AS MODIFIED IN THE FIELD BY A PLANNING DEPARTMENT FOREST CONSERVATION INSPECTOR. THE MEASURES MUST MEET OR EXCEED THE MOST RECENT STANDARDS PUBLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI A300).

PRE-CONSTRUCTION

1. AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED AND BEFORE ANY LAND DISTURBANCE.

2. THE PROPERTY OWNER MUST ARRANGE FOR THE MEETING AND FOLLOWING PEOPLE MUST PARTICIPATE AT THE PRE-CONSTRUCTION MEETING: THE PROPERTY OWNER OR THEIR REPRESENTATIVE, CONSTRUCTION SUPERINTENDENT, INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST/MARYLAND LICENSED TREE EXPERT (REPRESENTING OWNER) THAT WILL IMPLEMENT THE TREE PROTECTION MEASURES, THE PLANNING DEPARTMENT FOREST CONSERVATION INSPECTOR, AND MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES (DPS) SEDIMENT CONTROL INSPECTOR. THE PURPOSE OF THIS MEETING IS VERIFY THE LIMITS OF DISTURBANCE AND DISCUSS SPECIFIC TREE PROTECTION AND TREE CARE MEASURES SHOWN ON THE APPROVED PLAN. NO LAND DISTURBANCE SHALL BEGIN BEFORE TREE PROTECTION AND STRESS-REDUCTION MEASURES HAVE BEEN IMPLEMENTED AND APPROVED BY THE PLANNING DEPARTMENT'S FOREST CONSERVATION INSPECTOR.

A. TYPICAL TREE PROTECTION DEVICES INCLUDE:

- I. CHAIN LINK FENCE (FOUR FEET HIGH)
- II. SUPER SILT FENCE WITH WIRE STRUNG BETWEEN THE SUPPORT POLES (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.
- III. 14 GAUGE, 2 INCH X 4 INCH WELDED WIRE FENCING SUPPORTED BY STEEL T-BAR POSTS (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.

B. TYPICAL STRESS REDUCTION MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO:

- I. ROOT PRUNING WITH A ROOT CUTTER OR VIBRATORY PLOW DESIGNED FOR THAT PURPOSE. TRENCERS ARE NOT ALLOWED, UNLESS APPROVED BY THE FOREST CONSERVATION INSPECTOR.
  - II. CROWN REDUCTION OR PRUNING
  - III. WATERING
  - IV. FERTILIZING
  - V. VERTICAL MULCHING
  - VI. ROOT AERATION SYSTEMS
- MEASURES NOT SPECIFIED ON THE FOREST CONSERVATION PLAN MAY BE REQUIRED AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR IN COORDINATION WITH THE PROPERTY OWNER'S ARBORIST.

3. A MARYLAND LICENSED TREE EXPERT MUST PERFORM, OR DIRECTLY SUPERVISE, THE IMPLEMENTATION OF ALL STRESS REDUCTION MEASURES. DOCUMENTATION OF THE PROCESS (INCLUDING PHOTOGRAPHS) MAY BE REQUIRED BY THE FOREST CONSERVATION INSPECTOR, AND WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.

4. TEMPORARY TREE PROTECTION DEVICES MUST BE INSTALLED PER THE APPROVED FOREST CONSERVATION PLAN, EXEMPTION PLAN, OR TREE SAVE PLAN AND PRIOR TO ANY LAND DISTURBANCE. THE FOREST CONSERVATION INSPECTOR, IN COORDINATION WITH THE DPS SEDIMENT CONTROL INSPECTOR, MAY MAKE FIELD ADJUSTMENTS TO INCREASE THE SURVIVABILITY OF TREES AND FOREST SHOWN AS SAVED ON THE APPROVED PLAN.

5. TREE PROTECTION FENCING MUST BE INSTALLED AND MAINTAINED BY THE PROPERTY OWNER FOR THE DURATION OF CONSTRUCTION PROJECT AND MUST NOT BE ALTERED WITHOUT PRIOR APPROVAL FROM THE FOREST CONSERVATION INSPECTOR. ALL CONSTRUCTION ACTIVITY WITHIN PROTECTED TREE AND FOREST AREAS IS PROHIBITED. THIS INCLUDES THE FOLLOWING ACTIVITIES:

- A. PARKING OR DRIVING OF EQUIPMENT, MACHINERY OR VEHICLES OF ANY TYPE.
- B. STORAGE OF ANY CONSTRUCTION MATERIALS, EQUIPMENT, STOCKPILING, FILL, DEBRIS, ETC.
- C. DUMPING OF ANY CHEMICALS (I.E., PAINT THINNER), MORTAR OR CONCRETE REMAINDER, TRASH, GARBAGE, OR DEBRIS OF ANY KIND.
- D. FELLING OF TREES INTO A PROTECTED AREA.
- E. TRENCHING OR GRADING FOR UTILITIES, IRRIGATION, DRAINAGE, ETC.

6. FOREST AND TREE PROTECTION SIGNS MUST BE INSTALLED AS REQUIRED BY THE FOREST CONSERVATION INSPECTOR. THE SIGNS MUST BE WATERPROOF AND WORKING PROVIDED IN BOTH ENGLISH AND SPANISH.

DURING CONSTRUCTION

7. PERIODIC INSPECTIONS WILL BE MADE BY THE FOREST CONSERVATION INSPECTOR. CORRECTIONS AND REPAIRS TO TREE PROTECTION DEVICES MUST BE COMPLETED WITHIN THE TIMEFRAME GIVEN BY THE INSPECTOR.

8. THE PROPERTY OWNER MUST IMMEDIATELY NOTIFY THE FOREST CONSERVATION INSPECTOR OF ANY DAMAGE TO TREES, FORESTS, UNDERSTORY, GROUND COVER, AND ANY OTHER UNDISTURBED AREAS SHOWN ON THE APPROVED PLAN. REMEDIAL ACTIONS, AND THE RELATIVE TIMEFRAMES TO RESTORE THESE AREAS, WILL BE DETERMINED BY THE FOREST CONSERVATION INSPECTOR.


POST-CONSTRUCTION

9. AFTER CONSTRUCTION IS COMPLETED, BUT BEFORE TREE PROTECTION DEVICES HAVE BEEN REMOVED, THE PROPERTY OWNER MUST REQUEST A FINAL INSPECTION WITH THE FOREST CONSERVATION INSPECTOR. AT THE FINAL INSPECTION, THE FOREST CONSERVATION INSPECTOR MAY REQUIRE ADDITIONAL CORRECTIVE MEASURES, WHICH MAY INCLUDE:

- A. REMOVAL, AND POSSIBLE REPLACEMENT, OF DEAD, DYING, OR HAZARDOUS TREES
- B. PRUNING OF DEAD OR DECLINING LIMBS
- C. SOIL AERATION
- D. FERTILIZATION
- E. WATERING
- F. WOUND REPAIR
- G. CLEANUP OF RETENTION AREAS, INCLUDING TRASH REMOVAL

10. AFTER THE FINAL INSPECTION AND COMPLETION OF ALL CORRECTIVE MEASURES THE FOREST CONSERVATION INSPECTOR WILL REQUEST ALL TEMPORARY TREE AND FOREST PROTECTION DEVICES BE REMOVED FORM THE SITE. REMOVAL OF TREE PROTECTION DEVICES THAT ALSO OPERATE FOR EROSION AND SEDIMENT CONTROL MUST BE COORDINATED WITH BOTH DPS AND THE FOREST CONSERVATION INSPECTOR AND CANNOT BE REMOVED WITHOUT PERMISSION OF THE FOREST CONSERVATION INSPECTOR. NO ADDITIONAL GRADING, SODDING, OR BURIAL MAY TAKE PLACE AFTER THE TREE PROTECTION FENCING IS REMOVED.

11. LONG-TERM PROTECTION MEASURES, INCLUDING PERMANENT SIGNAGE, MUST BE INSTALLED PER THE APPROVED PLAN. INSTALLATION WILL OCCUR AT THE APPROPRIATE TIME DURING THE CONSTRUCTION PROJECT. REFER TO THE APPROVED PLAN DRAWING FOR THE LONG-TERM PROTECTION MEASURES TO BE INSTALLED.




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MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION  
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GAITHERSBURG, MARYLAND

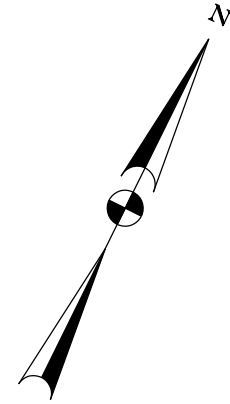
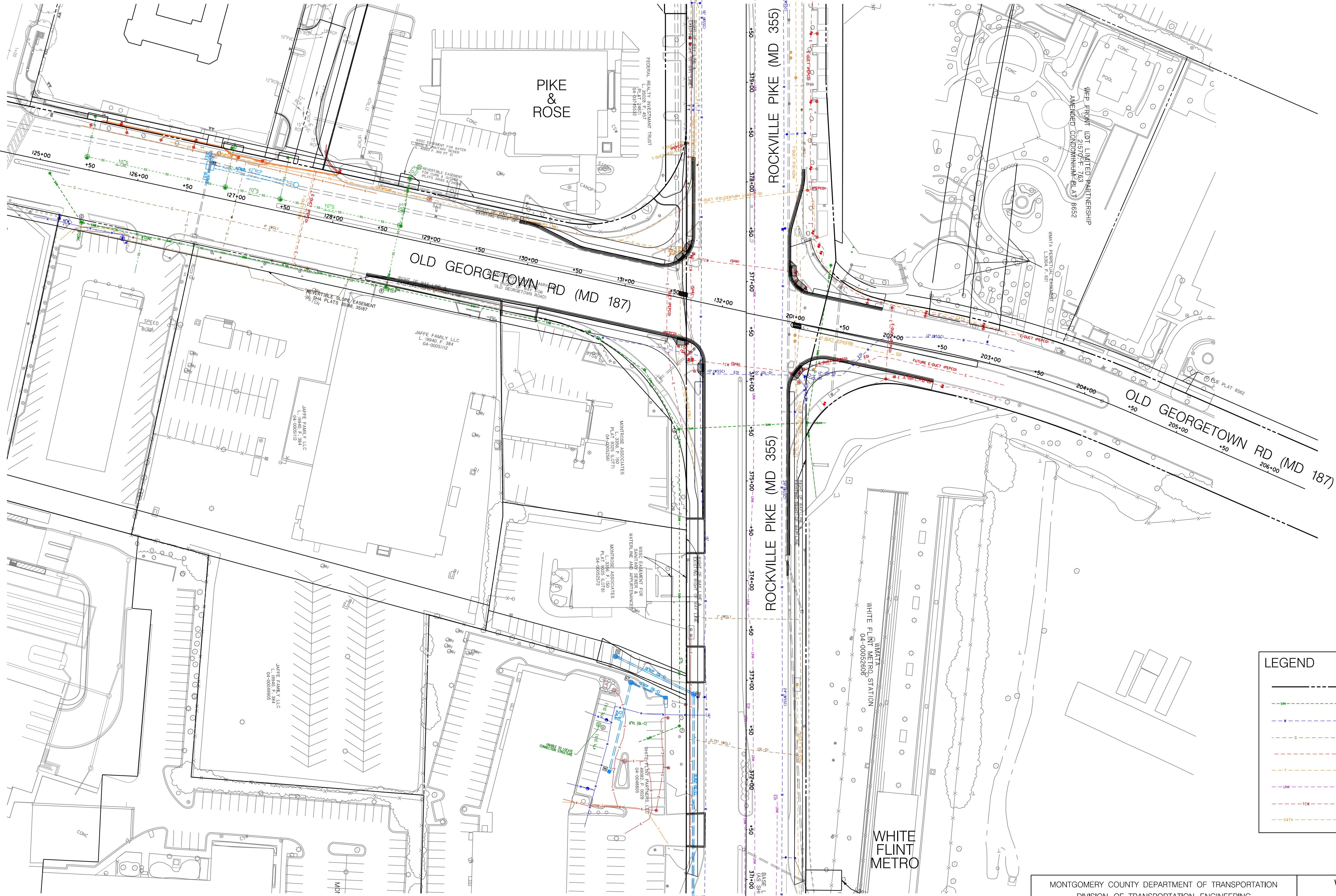
Designed by : \_\_\_\_\_ Drawn by : \_\_\_\_\_ Checked by : \_\_\_\_\_

WHITE FLINT METRO  
ACCESS IMPROVEMENTS  
SIMPLIFIED NATURAL RESOURCE INVENTORY  
AND FOREST STAND DELINEATION  
PLAN NO. 42021170E  
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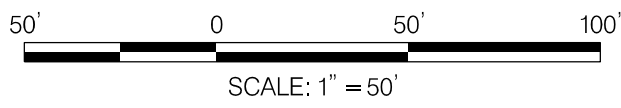
SCALE : N.T.S. DATE : MARCH 2021

Project No. : \_\_\_\_\_ SHEET 2 of 2

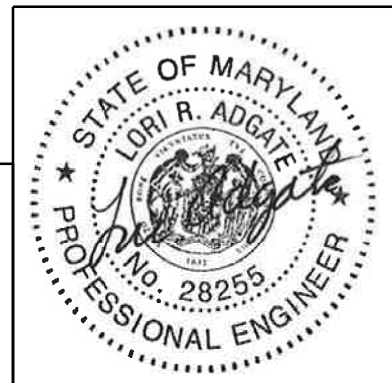




LEGEND	
	EX. RIGHT OF WAY
	EX. SANITARY SEWER (WSSC)
	EX. WATER (WSSC)
	EX. GAS (WASHINGTON GAS)
	EX. ELECTRIC (PEPCO)
	EX. TELECOM (VERIZON)
	EX. FIBER OPTIC
	EX. TRAFFIC CONTROL WIRE
	EX. CABLE



PROFESSIONAL CERTIFICATION:  
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PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE  
OF MARYLAND.  
LICENSE NO.: 28255      EXPIRATION DATE: 6-30-2022



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
SEE TITLE SHEET FOR SIGNATURES Chief, Design Section	Date
APPROVED	
SEE TITLE SHEET FOR SIGNATURES Chief, Division of Transportation Engineering	Date
Designed by :	Drawn by :      Checked by :

WHITE FLINT METRO STATION ACCESS IMPROVEMENTS	
EXISTING UTILITY PLAN	
SCALE : 1" = 50'	DATE : APRIL 2021
Project No. : 502106	SHEET 1 of 1