



Muncaster Mill Road Sidewalk, Mandatory Referral, MR2016012

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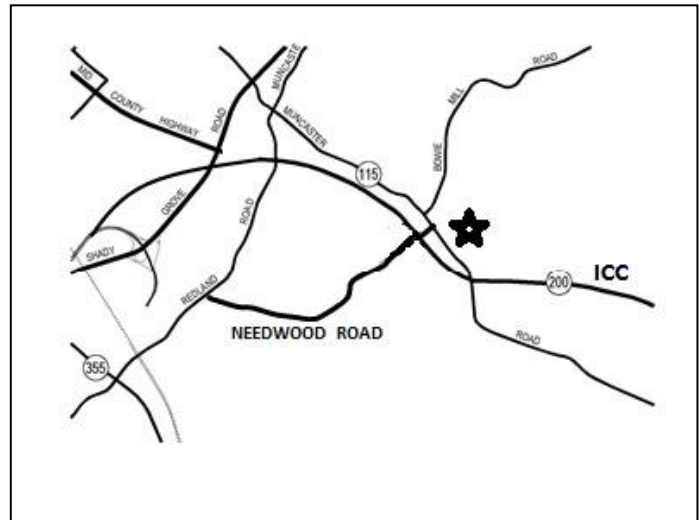
Completed: 1/8/16

Description

A. Mandatory Referral 2016012, Muncaster Mill Road Sidewalk

Construction of approximately 800 feet of six-foot-wide sidewalk along the north side of Muncaster Mill Road from Needwood Road to Colonel Zadok Magruder High School in Derwood. Upper Rock Creek Master Plan (2004)

- Master Plans: 2004 Upper Rock Creek
- Applicant: Montgomery County Department of Transportation
- Filing Date: November 23, 2015



Summary

- The review of this Mandatory Referral is in two parts:
Item 4A - Mandatory Referral MR2016012, and
Item 4B – Preliminary/Final Water Quality Plan MR2016012 discussed as a separate staff report.
- Staff recommends approval of the Mandatory Referral with comments to be transmitted to the Montgomery County Department of Transportation (Item 4A).
- This project is located within the Upper Rock Creek Special Protection Area (SPA) and on publicly owned property. Approval of a water quality plan is required under Section 19-62 of the Montgomery County Code. The Planning Board must take separate action on the Preliminary/Final Water Quality Plan (Item 4B) prior to taking action on the Mandatory Referral.
- This sidewalk will provide a connection between the Needwood Road Bikepath and Colonel Zadok Magruder High School where no current or proposed access exists.

RECOMMENDATIONS:

Transmit the following comments to the Montgomery County Department of Transportation:

1. The project must adhere to the approved Forest Conservation Plan Exemption/Tree Save Plan and Preliminary/Final Water Quality Plan.
2. Pedestrian scale lighting, or at the very least high-mount cobra lighting, on decorative poles is recommended for the extent of the project.
3. The sidewalk at the southeast corner of Needwood Road should be constructed behind the handicap ramp rather than through it so that waiting pedestrians are farther away from traffic.
4. Since Muncaster Mill Road is an arterial with an average annual daily traffic volume of 19,462 vehicle trips (SHA 2014 data), the sidewalk in the northern half of the project should be offset from the curb for pedestrian safety and comfort, similar to what is proposed for the southern half of the project and to be consistent with County standards.
5. Consider striping crosswalk for the north driveway, similar to what is proposed for the south driveway.
6. Consider constructing the lead sidewalk at the school on the north side of the driveway rather than the south side to:
 - i. Provide a shorter crossing for pedestrians;
 - ii. Allow pedestrians to cross the driveway farther away from fast moving traffic; and
 - iii. Reduce impacts to the root zone of the 54-inch tree.

Previous Board Actions

The Muncaster Mill Road Sidewalk was previously included in the application and staff report for MR2015021 Needwood Road Bikepath, which went to the Planning Board on June 18, 2015. Phase 2 of that project originally included a sidewalk along Muncaster Mill Road from Needwood Road to Colonel Zadok Magruder High School, but since a Water Quality Plan had not yet been prepared, MCDOT requested that the sidewalk be dropped from the project being reviewed by the Board. That project was approved with comments and recommendations.

Mandatory Referral Review

The Montgomery County Department of Transportation (MCDOT) proposal for the construction of the approximately 800 feet of six-foot-wide sidewalk along the north side of Muncaster Mill Road from Needwood Road to Colonel Zadok Magruder High School requires 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 and approval 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.

The Montgomery County Forest Conservation Law is applicable to the project; however the project qualifies for, and has been granted, an exemption by Planning Department Staff (#42015127E) under the provisions of Section 22A-5(e) as "a State or County highway construction activity..." In addition, the project is located in the Upper Rock Creek Special Protection Area and is therefore subject to Water

Quality Plan requirements. A summary of this review is provided in this staff report with a more complete analysis provided in the associated Preliminary/Final Water Quality Plan staff report (Item 4B).

Site Description

The project study area includes approximately 1,000 feet along the north side of Muncaster Mill Road from Needwood Road to Colonel Zadok Magruder High School in Derwood. Muncaster Mill Road is classified in the 2004 Upper Rock Creek Master Plan as an arterial road. The road is posted at 40 miles per hour. The majority of the road remains as a two lane road except where development projects have been required to widen the road and at intersections where turn lanes have been provided.

Project Description

Construction of a six-foot-wide sidewalk along the north side of Muncaster Mill Road from Needwood Road to Colonel Zadok Magruder High School will connect the Needwood Road Bikepath (Class I shared use) with a safe and convenient pedestrian and bicycle route to the high school. The project includes the design and construction of new six-foot-wide sidewalk.

Master Plan Consistency

The Upper Rock Creek Master Plan (2004) classifies Needwood Road as a two-lane Primary Residential Street (P-8) in a minimum 70-foot right-of-way. The Countywide Bikeways Functional Master Plan (2005) recommends that Needwood Road have both bike lanes and a shared use path (DB-14).

The Master Plan recommends safe walking routes to local destinations such as schools. This project provides a safe walking route from a Class I Bikepath (shared use) along Needwood Road to Colonel Zadok Magruder High School via Muncaster Mill Road.

The project is consistent with the recommendations in the Master Plan.

Public Meetings

A notice of the Mandatory Referral was sent to area citizens associations. In addition, MCDOT has held Public Meetings on January 8, 2015 and April 15, 2015.

Impacts to Parkland

This application has no impacts on Parkland.

ENVIRONMENT

Environmental Guidelines

The project area does not contain any environmental buffers, streams, other sensitive features. It is located in the Upper Rock Creek Master Plan area, the Upper Rock Creek Special Protection Area, and within the Upper Rock Creek watershed, which is classified by the State of Maryland as Use Class III waters. The project is in compliance with the Environmental Guidelines.

Forest Conservation

The Application meets the requirements of Chapter 22A of the Montgomery County Forest Conservation Law. See the Preliminary/Final Water Quality Plan staff report (Item 4B) for a complete analysis.

Special Protection Areas (SPA) Water Quality Plan

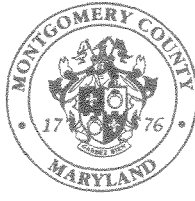
This project is located within the Upper Rock creek SPA and on publicly owned property. The Mandatory Referral project is required to obtain approval of a water quality plan under Section 19-62 of the Montgomery County Code. See the Preliminary/Final Water Quality Plan staff report (Item 4B) for a complete analysis.

CONCLUSION

Staff recommends that the Planning Board approves the Mandatory Referral and transmits recommendations as specified on page two of this staff report.

ATTACHMENTS

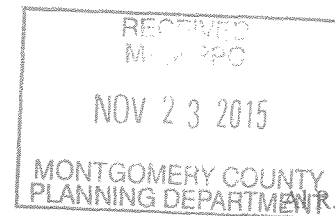
- A. MCDOT Mandatory Referral Request
- B. Needwood Road Bikepath/Trail: Muncaster Mill Road Sidewalk SPA Plan



DEPARTMENT OF TRANSPORTATION

Isiah Leggett
County Executive

November 20, 2015



Roshdieh
Acting Director

Casey Anderson, Planning Board Chair
The Maryland-National Capital Park and Planning Commission
Montgomery County Planning Board
8787 Georgia Avenue
Silver Spring, Maryland 20910

Re: Needwood Road Bike Path Trail/
Muncaster Mill Road Sidewalk
CIP No. 501304
Request for Mandatory Referral
Upper Rock Creek
Special Protection Area (SPA)

Dear Mr. Anderson:

This letter is to request your agency's review of the above referenced project for Mandatory Referral.

The Montgomery County Department of Transportation (MCDOT) proposes a six feet wide concrete sidewalk along the east side of Muncaster Mill Road (MD 115) from the intersection with Needwood Road to the northern entrance at Colonel Zadok Magruder High School in Derwood.

The project is located in Upper Rock Creek SPA. The project provides an 800 feet long concrete sidewalk with a varying width of grass buffer (eight-foot maximum) between the curb and the sidewalk. The project provides one bio-swale, one rain garden and a non-rooftop runoff disconnection for SWM/ESD design for the project.

The project will provide a safe transportation facility for pedestrians traveling to Colonel Zadok Magruder High School. This project is a part of Needwood Road Bike Path Phase II that was approved by the Board for Mandatory Referral on June 18, 2015. However, because the proposed sidewalk is located in SPA, the sidewalk portion is handled separately from the rest of the Needwood Road Bike Path project for Mandatory Referral.

Maryland Historical Trust determined that there are no historic properties affected by the project according to their response, dated October 7, 2014. The Department of Parks also confirmed the same determination on November 17, 2014.

Division of Transportation Engineering

100 Edison Park Drive, 4th Floor • Gaithersburg, Maryland 20878 • 240-777-7220 • 240-777-7277
www.montgomerycountymd.gov



Mr. Anderson
November 20, 2015
Page 2 of 2


The Forest Conservation Exemption Plan No. 42015194E for the project was approved on May 4, 2015. The pre-application meeting took place on August 13, 2015 and its meeting minutes were approved by Department of Permitting Services on September 22, 2015. In addition, the preliminary and final water quality plan for the project was approved on November 2, 2015.

The project design is scheduled to be completed in winter 2016. The construction for the sidewalk along with the rest of Phase II is scheduled to start in spring, 2017. The construction duration is anticipated to be ten months.

The Needwood Road Bikepath-Phase II capital improvement project is funded solely by the County's General Obligation bonds.

If you have any questions regarding this project, please contact Rebecca Park, P.E., Project Manager, at 240-777-7263 or at rebecca.park@montgomerycountymd.gov.

Sincerely,



Bruce E. Johnston, P.E.
Chief

BEJ:gl

Enclosures

cc: Dan Sheridan, P.E., MCDOT-Transportation Planning and Design Section
Rebecca Park, P.E., MCDOT-Transportation Planning and Design Section

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION

NEEDWOOD ROAD
BIKE PATH/TRAIL

SPECIAL PROTECTION AREA
MUNCASTER MILL ROAD
C. I. P. PROJECT NO. 501304

SPA DESIGN

INDEX OF SHEETS

SHT.NO.	DWG.NO.	DWG. DESCRIPTION
01	GN-01	TITLE SHEET
02	TS-02	TYPICAL SECTIONS
03-04	PS-07-08	ROADWAY PLANS
05	SC-01	EROSION & SEDIMENT CONTROL NOTES
06	SC-02	EROSION & SEDIMENT CONTROL DETAILS
07	SC-03	EROSION & SEDIMENT CONTROL PLAN
08	SWM-01	STORMWATER MANAGEMENT PLAN
09	SWM-02	STORMWATER MANAGEMENT DETAILS

RELATED REQUIRED PERMITS					
To be completed by the consultant and placed on the first sheet of the Sediment Control / Stormwater Management plan set for all projects.					
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
MCDPS Floodplain District		X			
WATERWAYS/WETLAND(S):		X			
a. Corps of Engineers		X			
b. MDE		X			
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
DNR Roadside Tree Care Permit	X			Approval Date	
DPS Roadside Tree Protection Plan		X		Approval Date	
N.P.D.E.S. NOTICE OF INTENT	X				DATE FILED 2/27/15
OTHERS (Please List):		X			

JUNE 2014

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
MAINTENANCE CERTIFICATION

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

DATE _____
BRUCE E. JOHNSTON, P.E.
CHIEF, DIVISION OF
TRANSPORTATION ENGINEERING

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 _____
BRUCE E. JOHNSTON, P.E.
CHIEF, DIVISION OF
TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

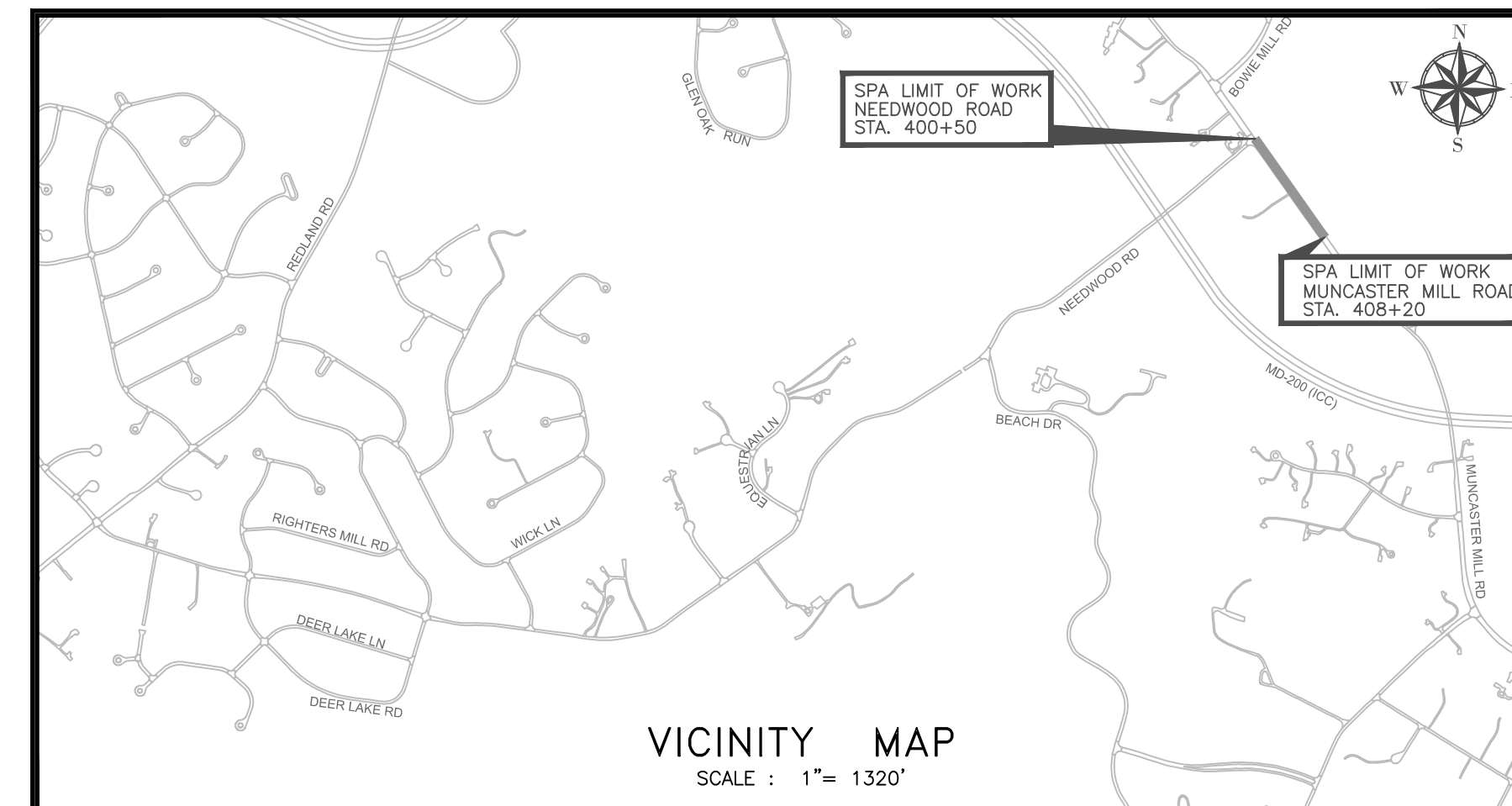
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL," MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN CRITERIA" DATED AUGUST, 1988.

DATE _____
MICHAEL ROTHENHEBER, P.E.
MD. REGISTRATION NO. 18589

CERTIFICATION OF THE QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO 607 CUBIC YARDS OF EXCAVATION, 40 CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE 137,400 SQUARE FEET OR 3.2 ACRES.

DATE _____
MICHAEL ROTHENHEBER, P.E.
MD. REGISTRATION NO. 18589



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 _____

**FOR THE PURPOSE OF
MANDATORY REFERRAL:
SPA ONLY**



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

CONTACT:
REBECCA PARK, P.E.
PROJECT MANAGER
DESIGN SECTION
DIVISION OF TRANSPORTATION ENGINEERING
240-777-7263

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

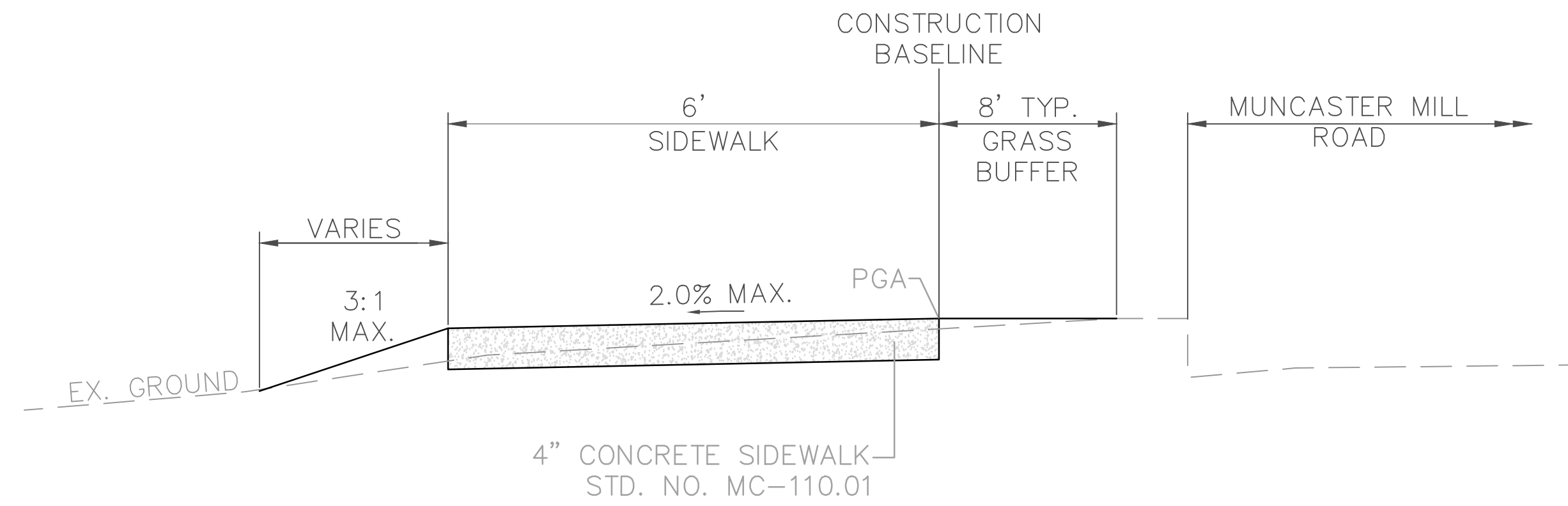
Chief, Transportation Planning and Design Section _____ Date _____
APPROVED

Chief, Division of Transportation Engineering _____ Date _____

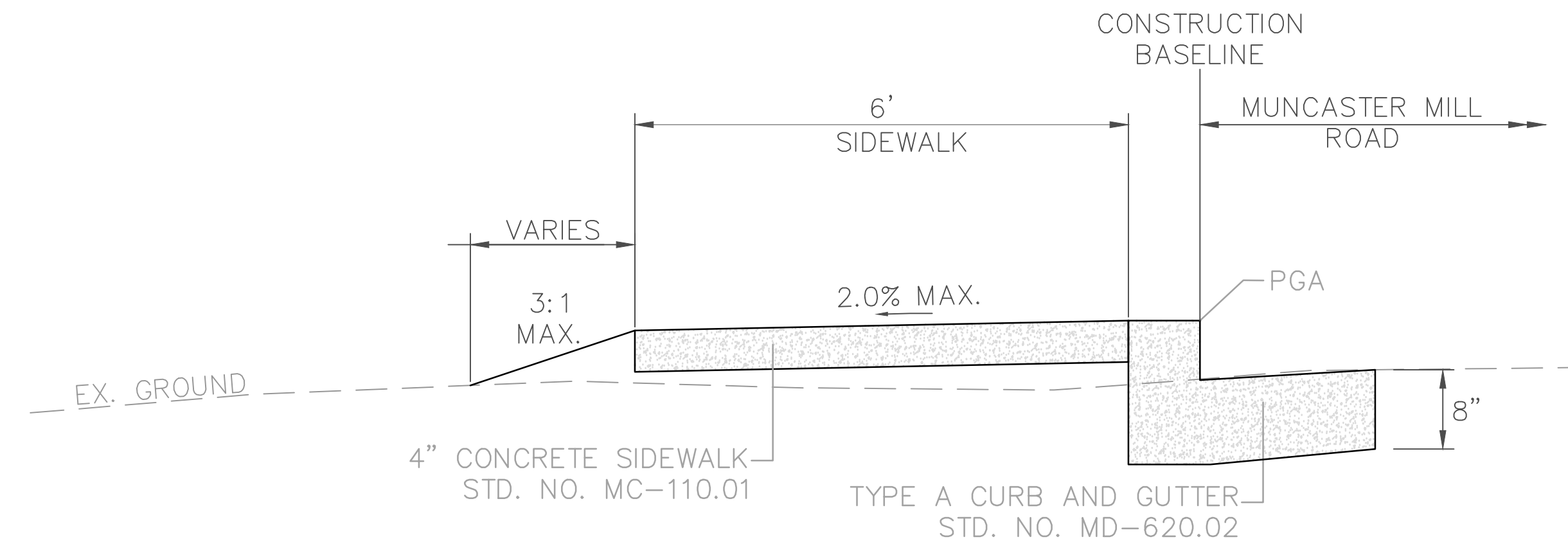
Designed by : DLA Drawn by : DLA Checked by : SAM

GN-01 TITLE SHEET
NEEDWOOD ROAD
BIKE PATH/TRAIL
MUNCASTER MILL ROAD

DATE: NOVEMBER 2015
Project No. : 501304 SHEET 1 of 9



SIDEWALK SECTION, MUNCASTER MILL ROAD
STA. 404+20 TO STA. 407+37

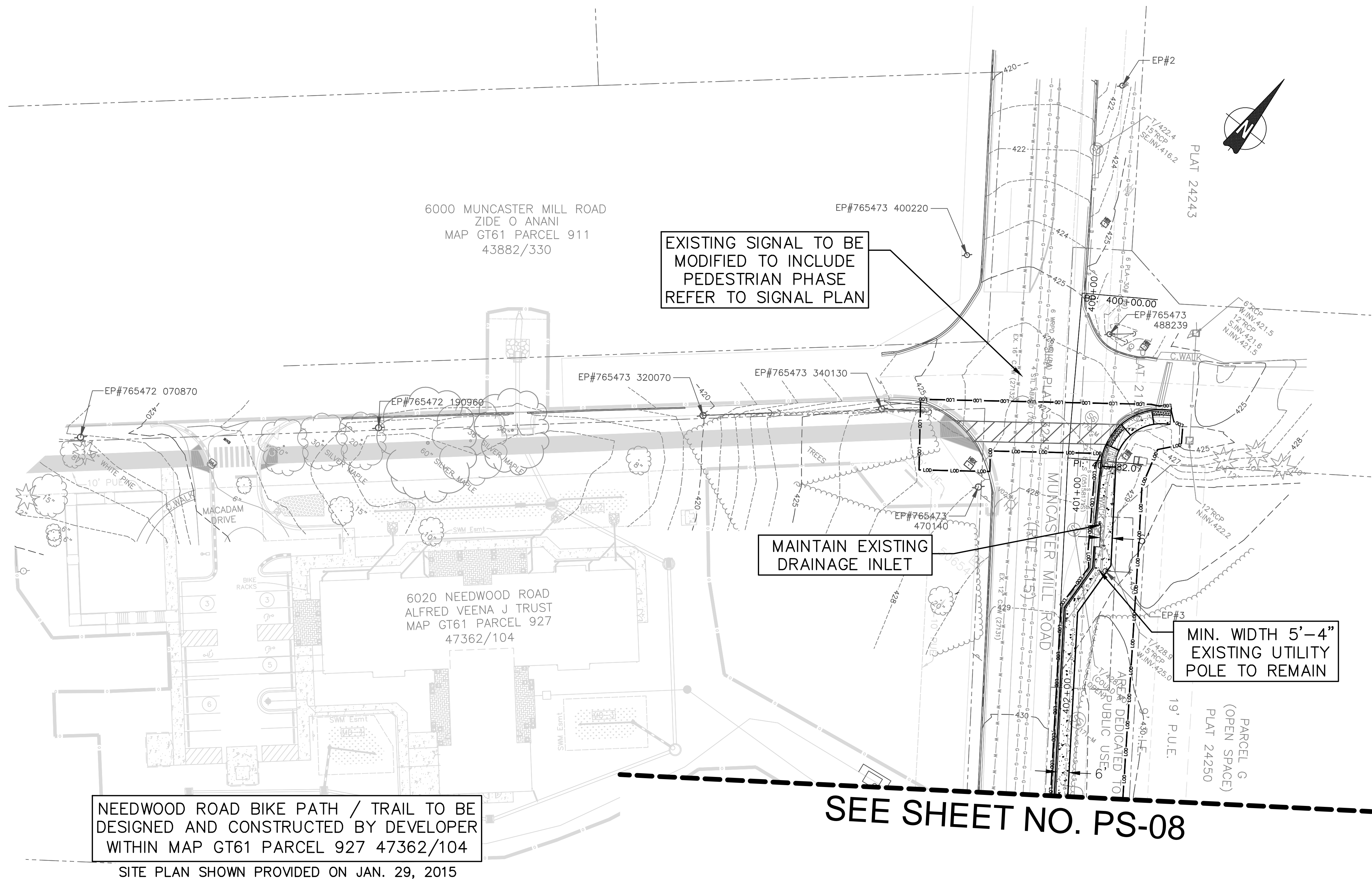


CURBED SIDEWALK SECTION, MUNCASTER MILL ROAD
STA. 400+53 TO STA. 404+20
STA. 407+80 TO STA. 408+20

90% FINAL DESIGN
THESE PLANS ARE NOT
FOR CONSTRUCTION



				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		TS-02 TYPICAL SECTION NEEDWOOD ROAD BIKE PATH/TRAIL-PHASE II	
				RECOMMENDED FOR APPROVAL			
				Chief, Design Section		Date	
				APPROVED			
				Chief, Division of Transportation Engineering		Date	
				Designed by: <u>ADS</u>		Drawn by: <u>ADS</u> Checked by: <u>JJR</u>	
NO.	REVISION	DATE	BY			SCALE: N.T.S. DATE: OCTOBER 2015	
						Project No. : <u>501304</u> SHEET <u>2</u> of <u>9</u>	



EXISTING SIGNAL TO BE MODIFIED TO INCLUDE PEDESTRIAN PHASE REFER TO SIGNAL PLAN

MAINTAIN EXISTING DRAINAGE INLET

MIN. WIDTH 5'-4" EXISTING UTILITY POLE TO REMAIN

NEEDWOOD ROAD BIKE PATH / TRAIL TO BE DESIGNED AND CONSTRUCTED BY DEVELOPER WITHIN MAP GT61 PARCEL 927 47362/104
SITE PLAN SHOWN PROVIDED ON JAN. 29, 2015

SEE SHEET NO. PS-08

4" CONCRETE SIDEWALK	
STATION	SF
400+54.68 TO 402+50.00	1357.35

TYPE A CURB AND GUTTER STD. NO. MD-620.02	
STATION	LF
400+53.98 TO 401+14.44	78.27
401+25.29 TO 402+50.00	128.56

NOTE:
1. TREATMENT A: TREE TO REMAIN.
2. TREATMENT B: REMOVE TREE INCLUDING STUMP.

LEGEND	
--- LIMIT OF DISTURBANCE	PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
--- LIMIT OF GRADING	PROPOSED PATH/TRAIL-PERVIOUS PAVING
--- PROPOSED PAVEMENT MARKINGS	PROPOSED FULL DEPTH ASPHALT DRIVEWAY
--- TEMPORARY CONSTRUCTION EASEMENT	PROPOSED MILL AND OVERLAY
--- PERMANENT EASEMENT	PROPOSED PAVEMENT REMOVAL
--- PROPOSED CONCRETE SIDEWALK	

INSTALL SIDEWALK RAMP AND DETECTABLE WARNING SURFACE STD. NO. MD-655.12 AND MD-655.40*	
STATION	OFFSET
400+54.10	44.30' LT
400+68.09	21.13' LT

* STATION AND OFFSET ARE APPLIED AT THE CENTERLINE OF SIDEWALK RAMP, AT THE ROADWAY EDGE.

90% FINAL DESIGN
THESE PLANS ARE NOT FOR CONSTRUCTION

JMT
JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®
72 Lovelton Circle, Sparks, MD 21152
Telephone: (410) 329-3100; Fax: (410) 472-2200; WEB: WWW.JMT.COM

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		PS-07 PLAN SHEET NEEDWOOD ROAD BIKE PATH/TRAIL-PHASE II	
RECOMMENDED FOR APPROVAL		DATE: OCTOBER 2015	
Chief, Design Section APPROVED	_____	Date	_____
Chief, Division of Transportation Engineering	_____	Date	_____
Designed by: ADS	Drawn by: ADS	Checked by: JJR	Project No.: 501304
NO. _____		SHEET 3 of 9	

INSTALL SIDEWALK RAMP AND DETECTABLE WARNING SURFACE STD. NO. MD-655.11 AND MD-655.40*	
STATION	OFFSET
405+31.06	21.13' LT
405+73.06	21.13' LT
407+33.09	21.13' LT

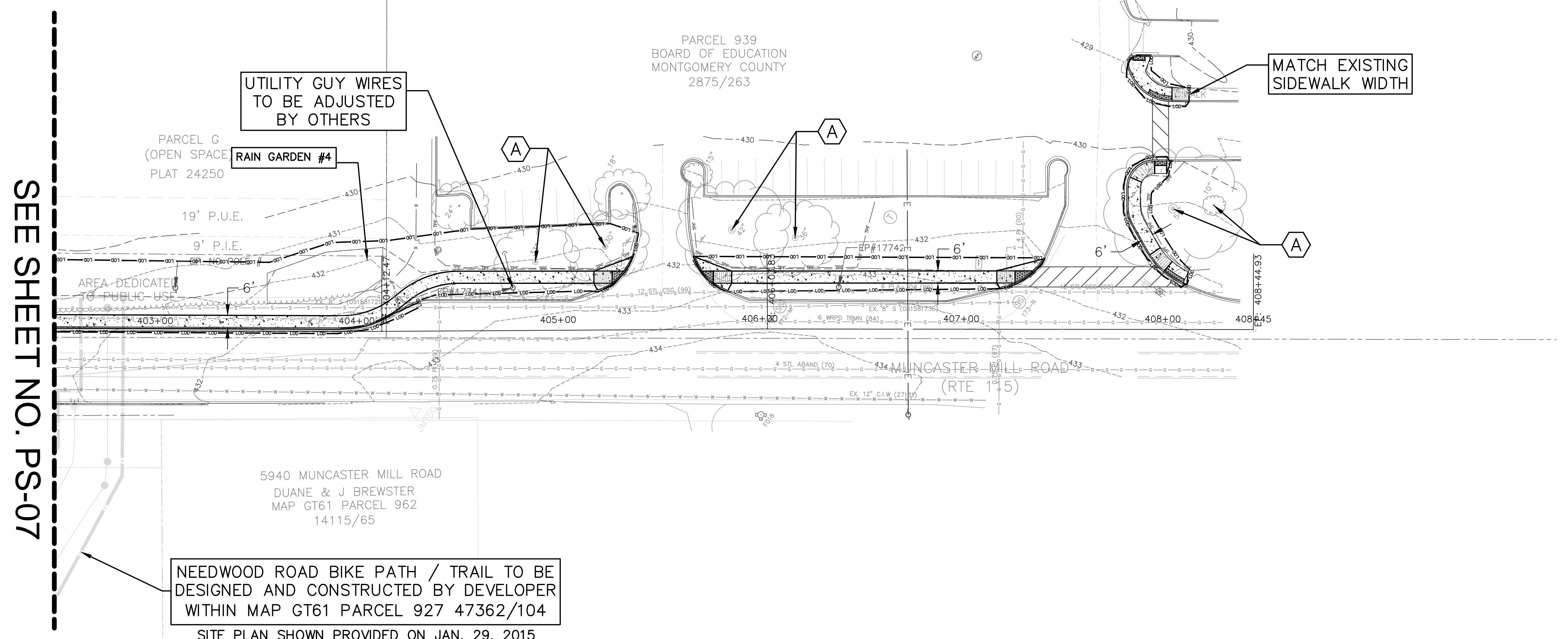
* STATION AND OFFSET ARE APPLIED AT THE CENTERLINE OF SIDEWALK RAMP, AT THE ROADWAY EDGE.

INSTALL SIDEWALK RAMP AND DETECTABLE WARNING SURFACE STD. NO. MD-655.12 AND MD-655.40*	
STATION	OFFSET
408+04.82	25.25' LT
407+98.82	84.07' LT
407+98.01	113.94' LT
407+87.98	136.09' LT

* STATION AND OFFSET ARE APPLIED AT THE CENTERLINE OF SIDEWALK RAMP, AT THE ROADWAY EDGE.

TYPE A CURB AND GUTTER STD. NO. MD-620.02		
STATION	LF	
402+50.00 TO 404+30.75	183.44	
405+19.79 TO 405+36.74	24.74	
405+67.98 TO 405+84.24	24.54	
407+19.22 TO 407+40.81	26.91	
407+82.00 TO 408+10.05	84.20	
407+83.00 TO 408+12.89	51.77	

4" CONCRETE SIDEWALK		
STATION	SF	
402+50.00 TO 405+36.53	1780.25	
405+68.14 TO 407+40.42	1080.26	
407+82.72 TO 408+11.88	469.15	
407+82.98 TO 408+12.89	255.45	



SEE SHEET NO. PS-07

NEEDWOOD ROAD BIKE PATH / TRAIL TO BE DESIGNED AND CONSTRUCTED BY DEVELOPER WITHIN MAP GT61 PARCEL 927 47362/104
SITE PLAN SHOWN PROVIDED ON JAN. 29, 2015

- NOTE:
1. TREATMENT A: TREE TO REMAIN.
2. TREATMENT B: REMOVE TREE INCLUDING STUMP.

LEGEND	
--- LIMIT OF DISTURBANCE	PROPOSED ASPHALT PATH/TRAIL-IMPERVIOUS
--- LIMIT OF GRADING	PROPOSED PATH/TRAIL-PERVIOUS PAVING
--- PROPOSED PAVEMENT MARKINGS	PROPOSED FULL DEPTH ASPHALT DRIVEWAY
--- TEMPORARY CONSTRUCTION EASEMENT	PROPOSED MILL AND OVERLAY
--- PERMANENT EASEMENT	PROPOSED PAVEMENT REMOVAL
--- PROPOSED CONCRETE SIDEWALK	

90% FINAL DESIGN
THESE PLANS ARE NOT FOR CONSTRUCTION



MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND		PS-08 PLAN SHEET NEEDWOOD ROAD BIKE PATH/TRAIL-PHASE II	
RECOMMENDED FOR APPROVAL		DATE: OCTOBER 2015	
Chief, Design Section	APPROVED	Date	
Chief, Division of Transportation Engineering	APPROVED	Date	
Designed by: ADS	Drawn by: ADS	Checked by: JUR	
NO.	REVISION	DATE	BY
Project No. : 501304		SHEET 4 of 9	

EROSION AND SEDIMENT CONTROL – GENERAL NOTES

STANDARD EROSION AND SEDIMENT CONTROL NOTES

- 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.
- The permittee must obtain inspection and approval by DPS at the following points:
 - At the required pre-construction meeting.
 - Following installation of sediment control measures and prior to any other land disturbing activity.
 - 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.
 - Prior to removal or modification of any sediment control structure(s).
 - Prior to final acceptance.
- 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.
- 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.
- 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.
 - 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
 - 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.
- The sediment control inspector has the option of requiring additional sediment control measures, as deemed necessary.
- All trap elevations are relative to the outlet elevation, which must be on an existing undisturbed ground.
- Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control.
- 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.
- Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.
- 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 than 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.
- 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.
- Off-site spoil or borrow areas must have prior approval by DPS.
- 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:
 - 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
 - the pump intake may utilize a Removable Pumping Station and must discharge into an undisturbed area through a non-erosive outlet; or
 - 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.
- The permittee must notify the Department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.
- 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".

STANDARD SYMBOLS

AT-GRADE INLET PROTECTION		REMOVABLE PUMPING STATION	
BAFFLE BOARDS		RIPRAP INFLOW PROTECTION	
BENCHING		RIPRAP OUTLET SEDIMENT TRAP ST III	
CATCH BASIN INSERT		ROCK OUTLET PROTECTION I	
CLEAR WATER DIVERSION PIPE		ROCK OUTLET PROTECTION II	
CLEAR WATER PIPE		ROCK OUTLET PROTECTION III	
COMBINATION INLET PROTECTION		SILT FENCE	
CONCRETE WASHOUT STRUCTURE		SILT FENCE ON PAVEMENT	
CURB INLET PROTECTION		SOD	
DIVERSION FENCE		STABILIZED CONSTRUCTION ENTRANCE	
EARTH DIKE		STANDARD INLET PROTECTION	
EMERGENCY SPILLWAY		STONE CHECK DAM	
FILTER BAG		STONE/RIPRAP OUTLET SEDIMENT TRAP ST II	
FILTER BERM		SUBSURFACE DRAINS	
FILTER LOG		SUMP PIT	
GABION INFLOW PROTECTION		SUPER SILT FENCE	
GABION INLET PROTECTION		TEMPORARY ACCESS BRIDGE	
HORIZONTAL DRAW-DOWN DEVICE		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		TEMP. SOIL STABILIZATION MATTING-TYPE A	
PERIMETER DIKE/SWALE		TEMP. SOIL STABILIZATION MATTING-TYPE E	
PERM. SOIL STABILIZATION MATTING-TYPE B		TEMP. SOIL STABILIZATION MATTING-TYPE D	
PERM. SOIL STABILIZATION MATTING-TYPE C		TEMPORARY STONE OUTLET STRUCTURE	
PIPE OUTLET SEDIMENT TRAP ST I		TEMPORARY SWALE	
PIPE SLOPE DRAIN		TEMPORARY WASH RACK OPTION	
PLUNGE POOL		CHESAPEAKE BAY CRITICAL AREA	
PORTABLE SEDIMENT TANK		TREE PROTECTION FENCE	
DRAINAGE BOUNDARY		WETLAND	
EXISTING CONTOURS		WETLAND BUFFER	
PROPOSED CONTOURS		100-YEAR FLOODPLAIN	

STANDARD NOTES

- The contractor will immediately inform the county of any discrepancies found between the project plans and contract specifications.
 - For construction, all horizontal control shall be NAD 83/91 and vertical control NAVD 88.
 - Types of storm drain structures refer to the Design Standards of Montgomery County Department of Transportation, unless otherwise noted.
 - Information concerning underground utilities was obtained from available records. The contractor must determine the exact location 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 on this plan or six inches, whichever is less, the contractor shall contact the county.
 - Repairs to utilities or property damaged as a result of the contractor's negligence or method of operation must be made at the contractor's expense before proceeding with construction.
 - Call "Miss Utility" at 1-800-257-7777 forty-eight (48) hours prior to beginning excavation to determine the exact location of existing utilities.
 - Clearing to be limited to the "limit of disturbance" as shown on the plans.
 - All grading shall be done in such a manner as to provide positive drainage.
 - Disturbed areas adjacent to established lawns shall be sodded. Other disturbed areas shall be seeded and mulched.
 - 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 before starting a job. Permit requirements may be obtained from the Department of Natural Resources – Maryland Forest, Park and Wildlife service whose telephone number is (301) 854-6060.
 - Contact the Washington Suburban Sanitary Commission system maintenance engineer before excavating beneath or in the vicinity of existing water or sewer lines. Backfill to be done under the supervision of W.S.S.C. call 301-699-4420.
 - Contact Washington gas dispatch officer at (703) 750-4831 before excavating beneath or in the vicinity of existing gas main and service laterals.
 - Prior to vegetative stabilization, all disturbed areas must be topsoiled per the Montgomery County "Standards and Specifications for topsoil".
 - Prior to clearing 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) 777-6210 (48 hours notice) and the MNCPPC, Planning Department, Plans Enforcement inspector (301) 495-4571 (48 hours notice), the Owners representative, and the site Engineer.
 - The limits of disturbance shall be field marked prior to clearing of trees, installation of sediment control measures, construction, or other land disturbing activities.
 - The permittee must obtain written approval from the MNCPPC inspector, certifying that the limits of disturbance and tree protection measures are correctly marked and installed prior to commencing any clearing.
 - Clear and grade for installation of sediment control devices.
 - Install sediment control devices. Traps and basins shall be constructed prior to construction of any earth dikes that convey drainage to a trap and/or basin.
 - Once the sediment control devices are installed, the permittee must obtain written approval from the MCDPS inspector before proceeding with any additional clearing, grubbing or grading.
- NOTE 1: All sequences should call for the permittee to obtain written approval from MCDPS inspector, prior to the removal of any sediment control devices.
- NOTE 2: Any site that has a proposed storm drain diversion 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, and temporary pipes removed, and any permanent pipes unblocked or constructed.

OWNER/DEVELOPER'S CERTIFICATION

I/We hereby certify that all clearing, grading, construction, and or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

Signature _____ Date _____

Printed Name and Title _____

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 Public Works and Transportation "Storm Drain Design Criteria" dated August 1988.

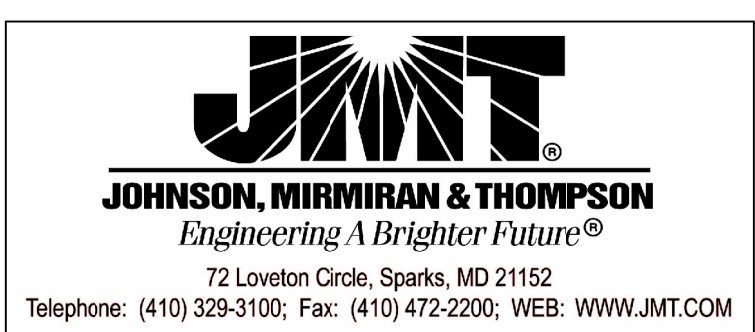
Design Engineer Signature _____ Date _____

Printed Name _____ Registration Number _____

P.E. 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. 28377, EXPIRATION DATE: 12-31-16

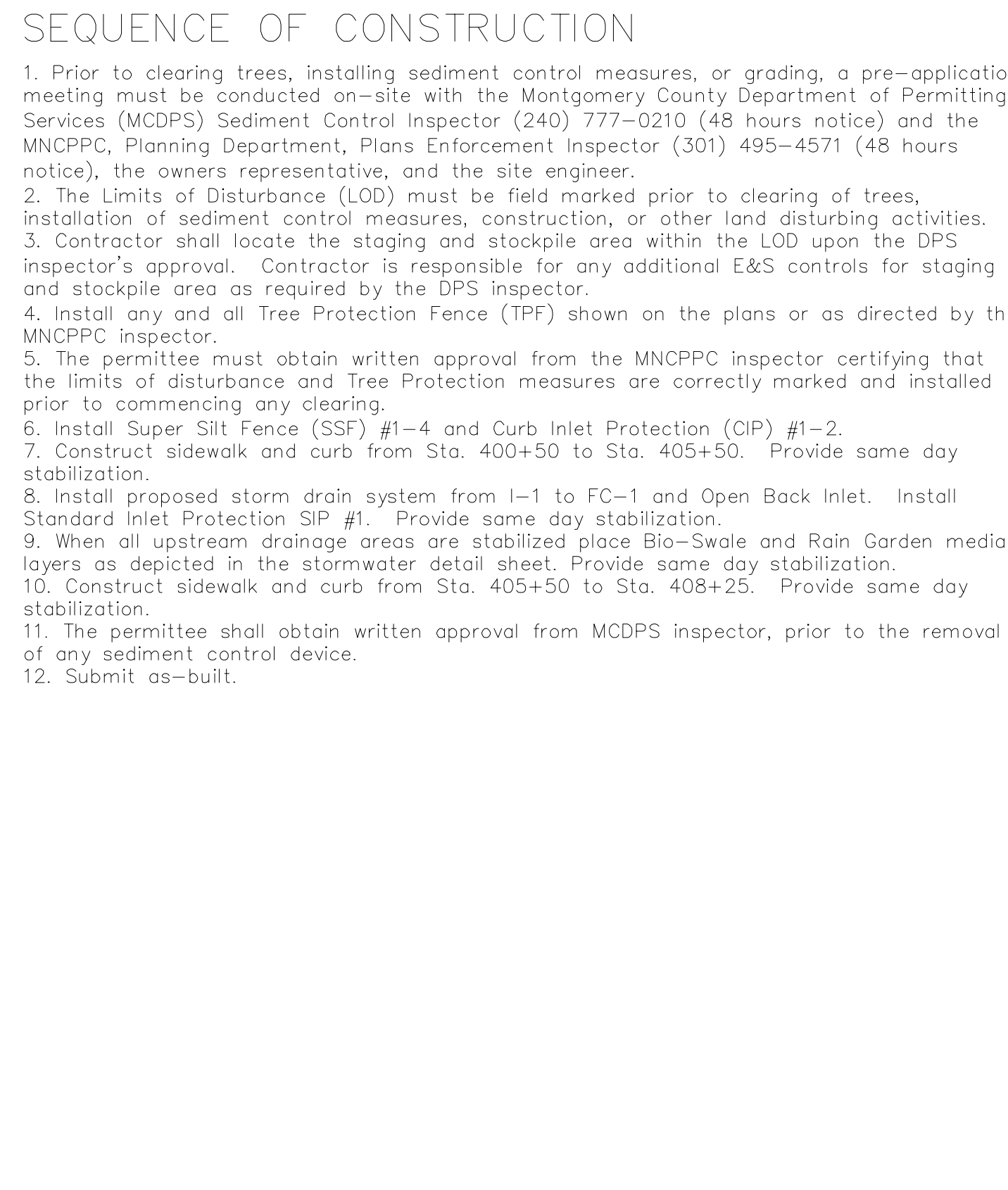
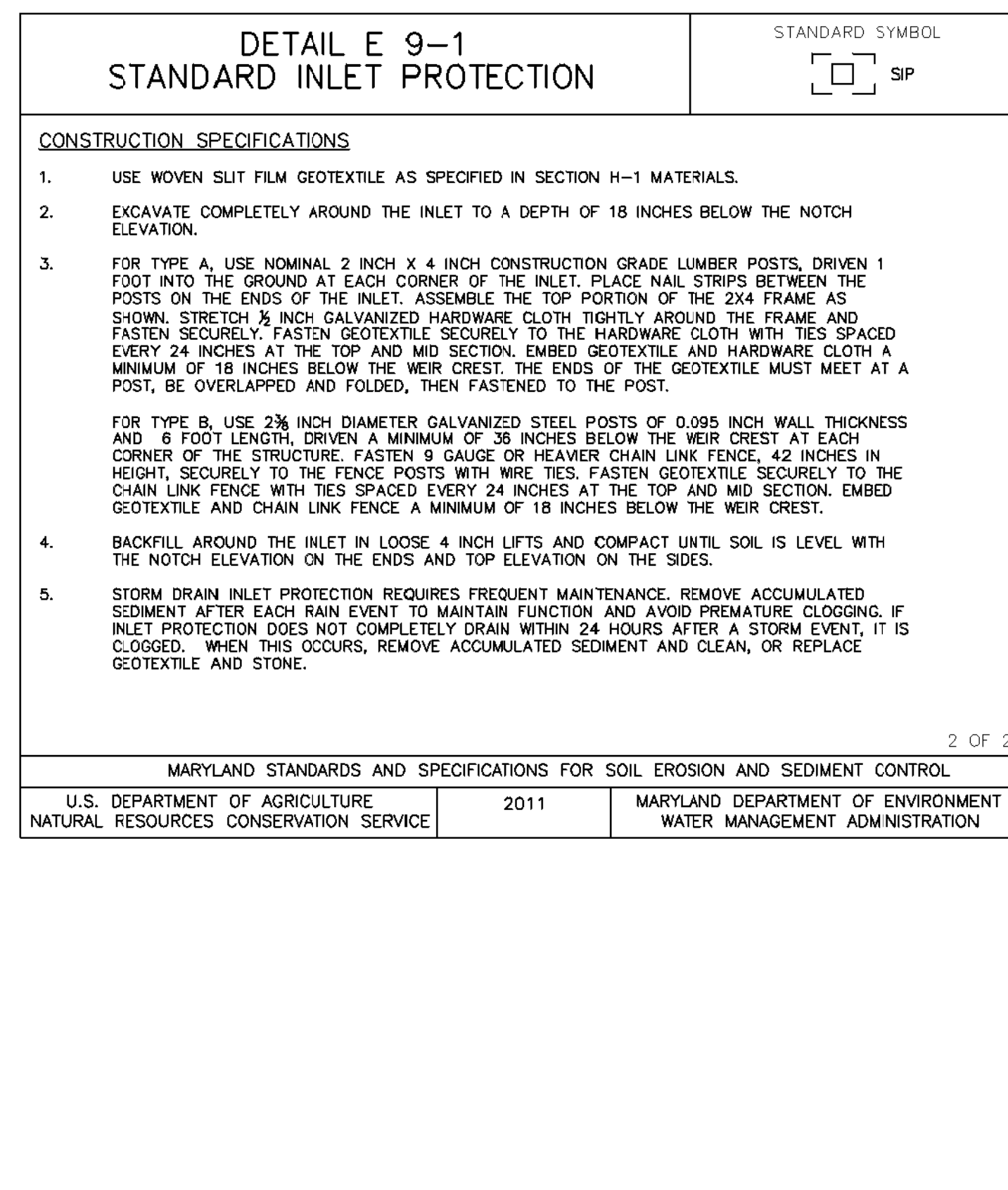
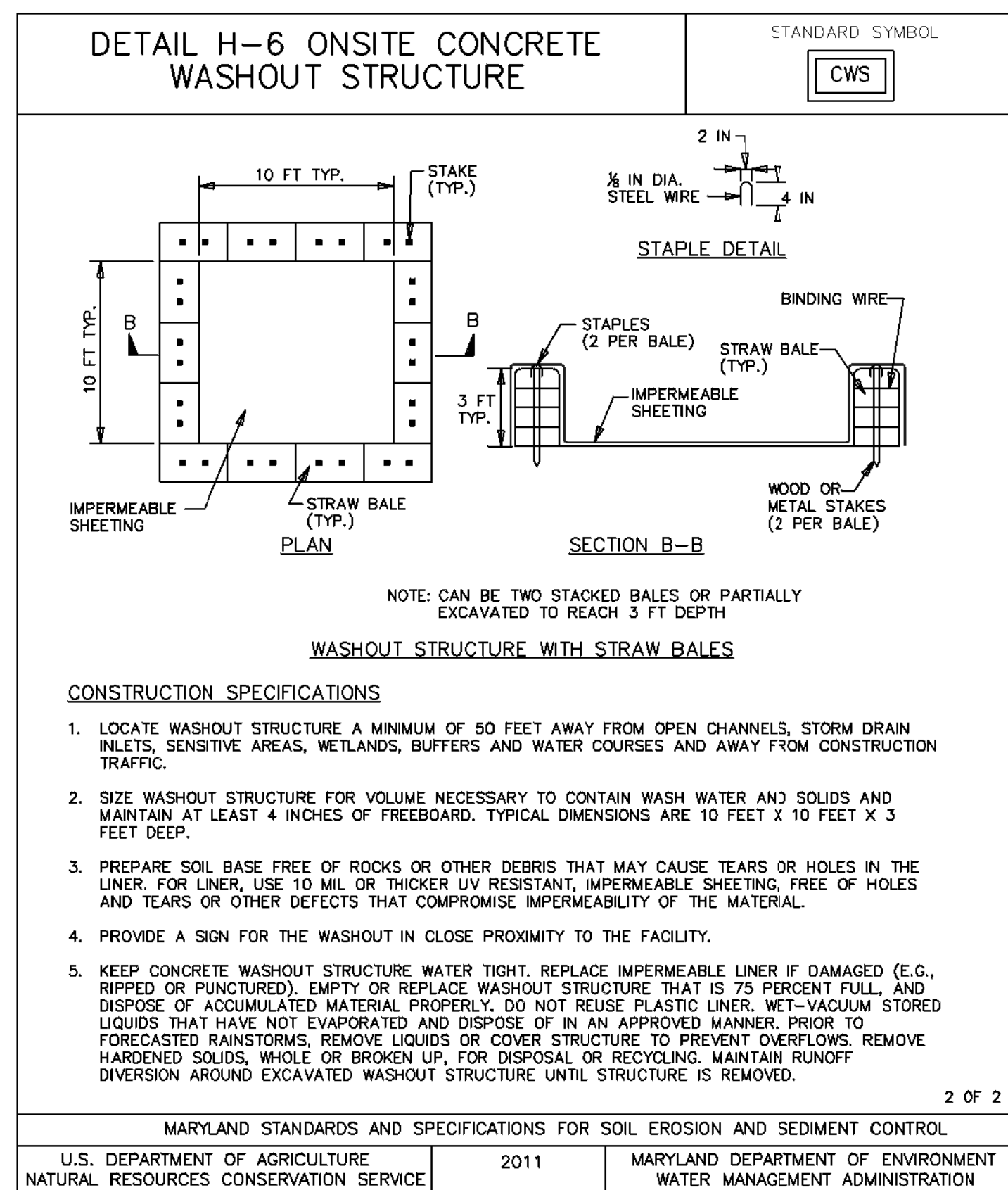
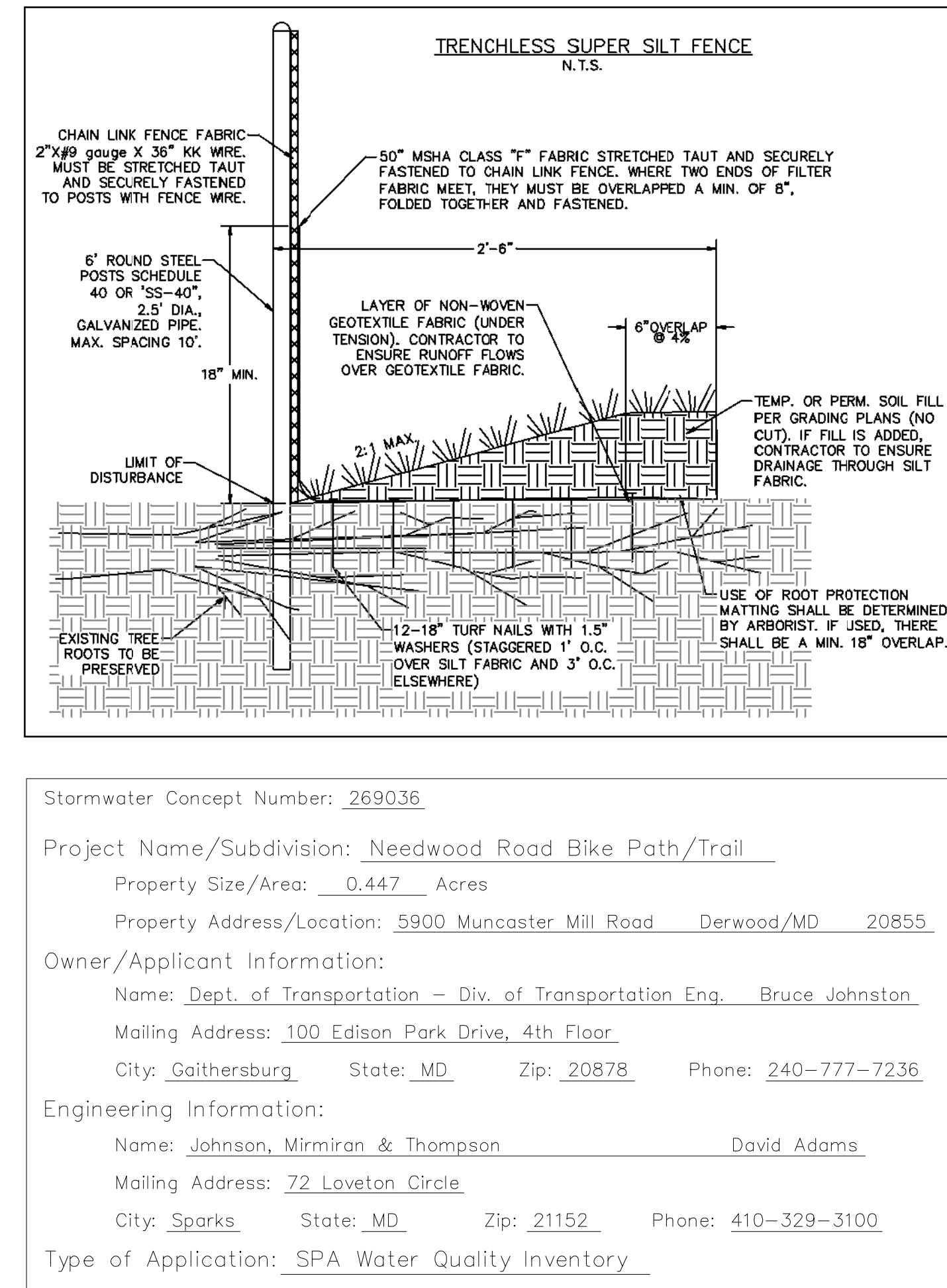
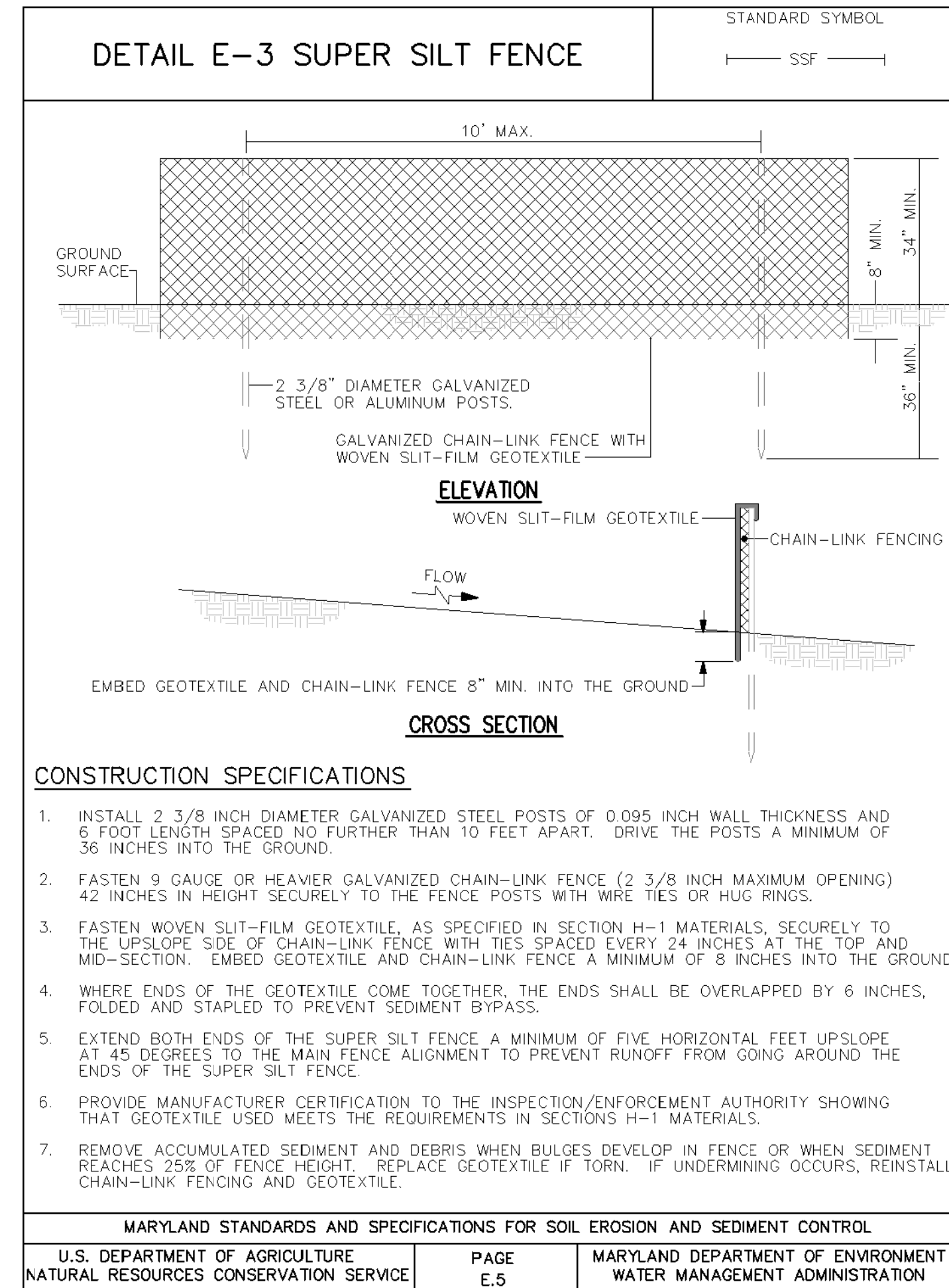
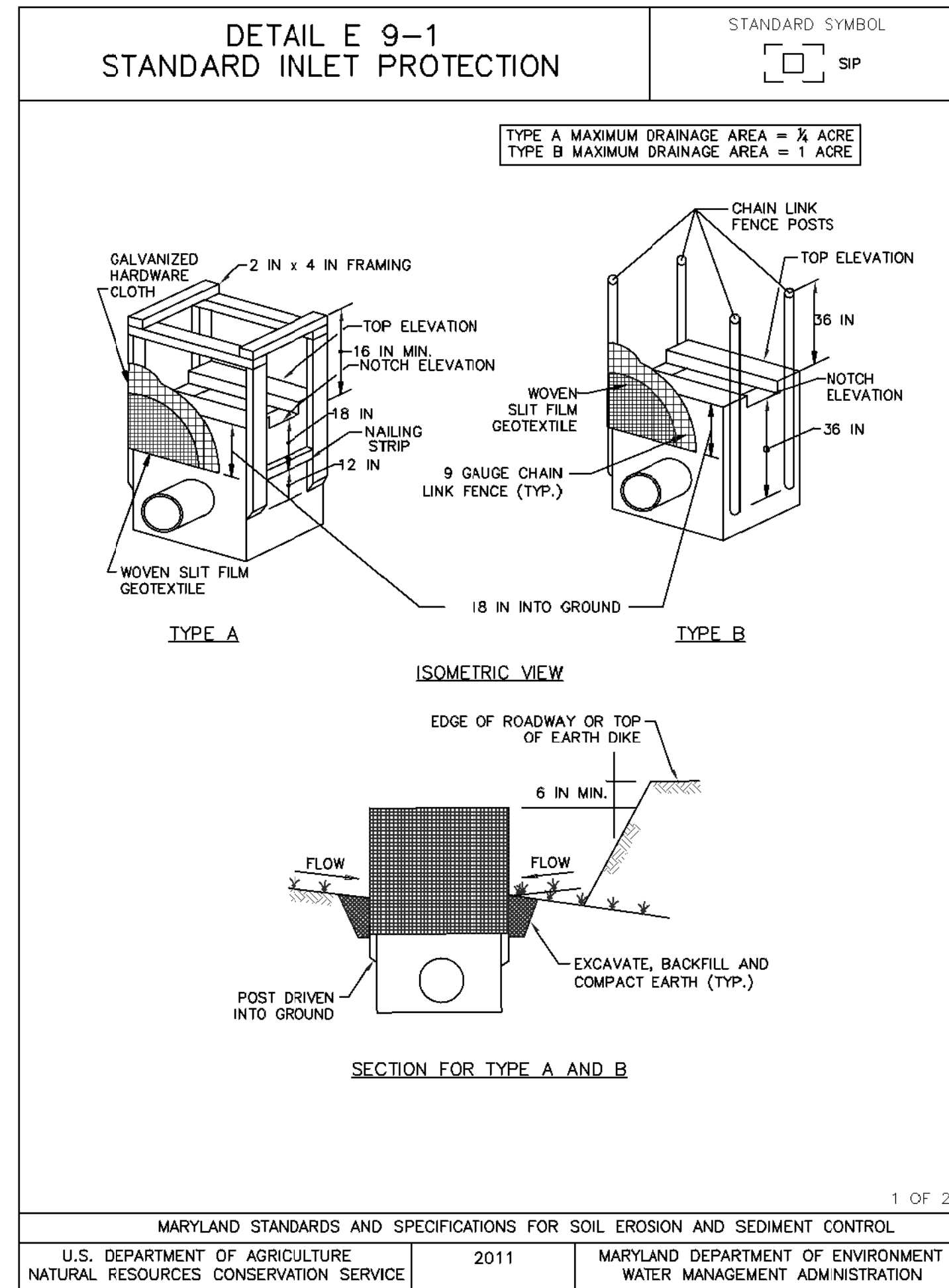
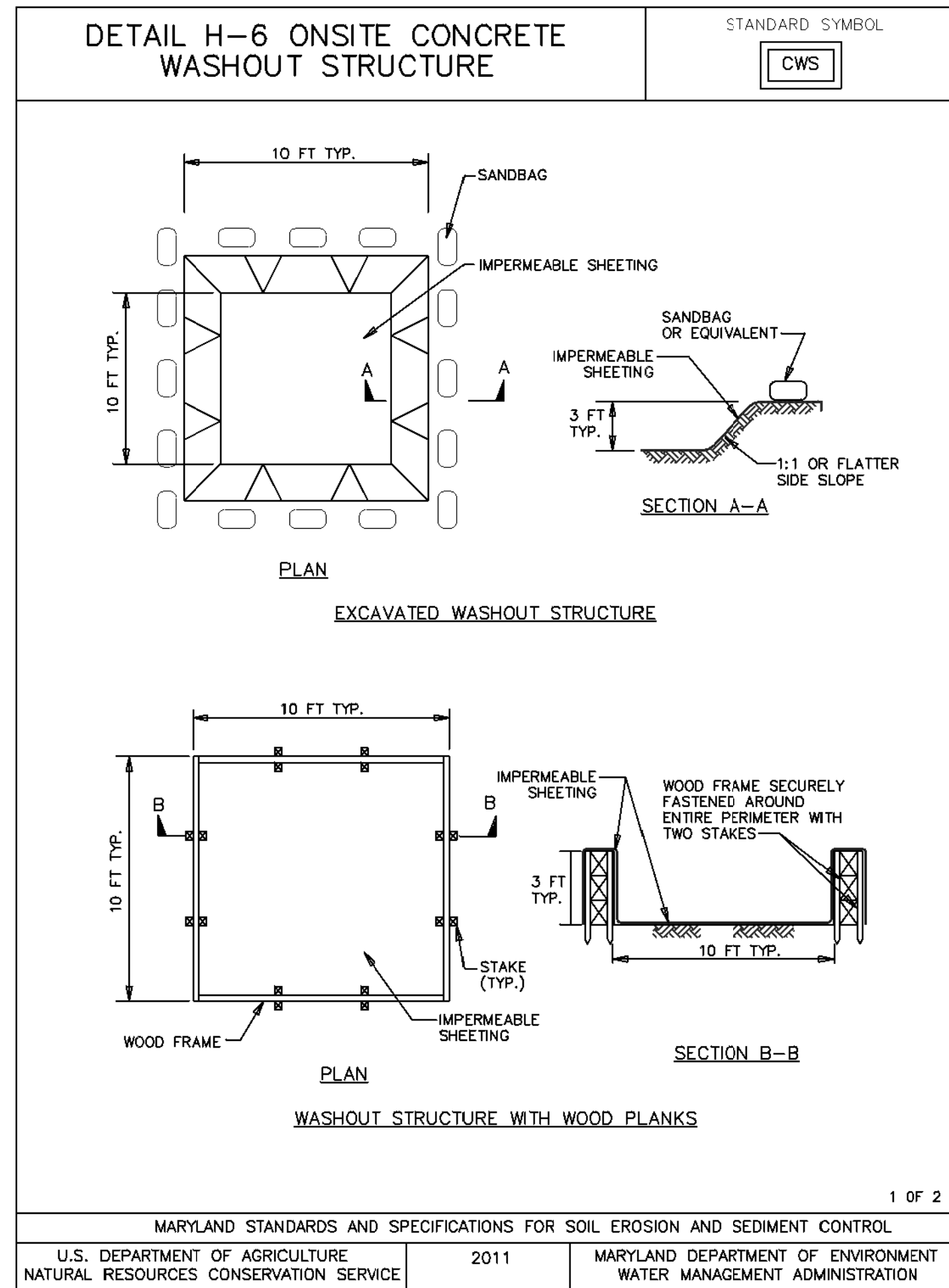
MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	
_____	WRC 5/26/15 Reviewed Date	Administrative Requirements:
Reviewed Date	Approved Date	Reviewed Date
Approved Date	_____	_____
SM FILE #	_____	_____
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 uphill or downhill properties.		



NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	_____ Date _____
Chief, Division of Transportation Engineering	_____ Date _____
Designed by: <u>DLA</u>	Drawn by: <u>FGY</u> Checked by: <u>SAM</u>

EROSION AND SEDIMENT CONTROL SC-01 NOTES SHEET NEEDWOOD ROAD BIKE PATH/TRAIL-PHASE II	
SCALE: AS SHOWN	DATE: SEPTEMBER 15
Project No. : <u>501304</u>	SHEET <u>5</u> of <u>9</u>



MCDPS APPROVED FOR:	
Stormwater Management:	_____
Reviewed	Date
Approved	Date
SM FILE #	
Sediment Control Technical Requirements:	
WRC	5/26/15
Reviewed	Date
Approved	Date
Administrative Requirements:	
Reviewed	Date
SEDIMENT CONTROL PERMIT #	

NOTE
MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL, IF THE PROJECT HAS NOT STARTED.
THIS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.

72 Loveton Circle, Sparks, MD 21152
Telephone: (410) 329-3100; Fax: (410) 472-2200; WEB: WWW.JMT.COM

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
GAITHERSBURG, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Design Section _____ Date _____
APPROVED

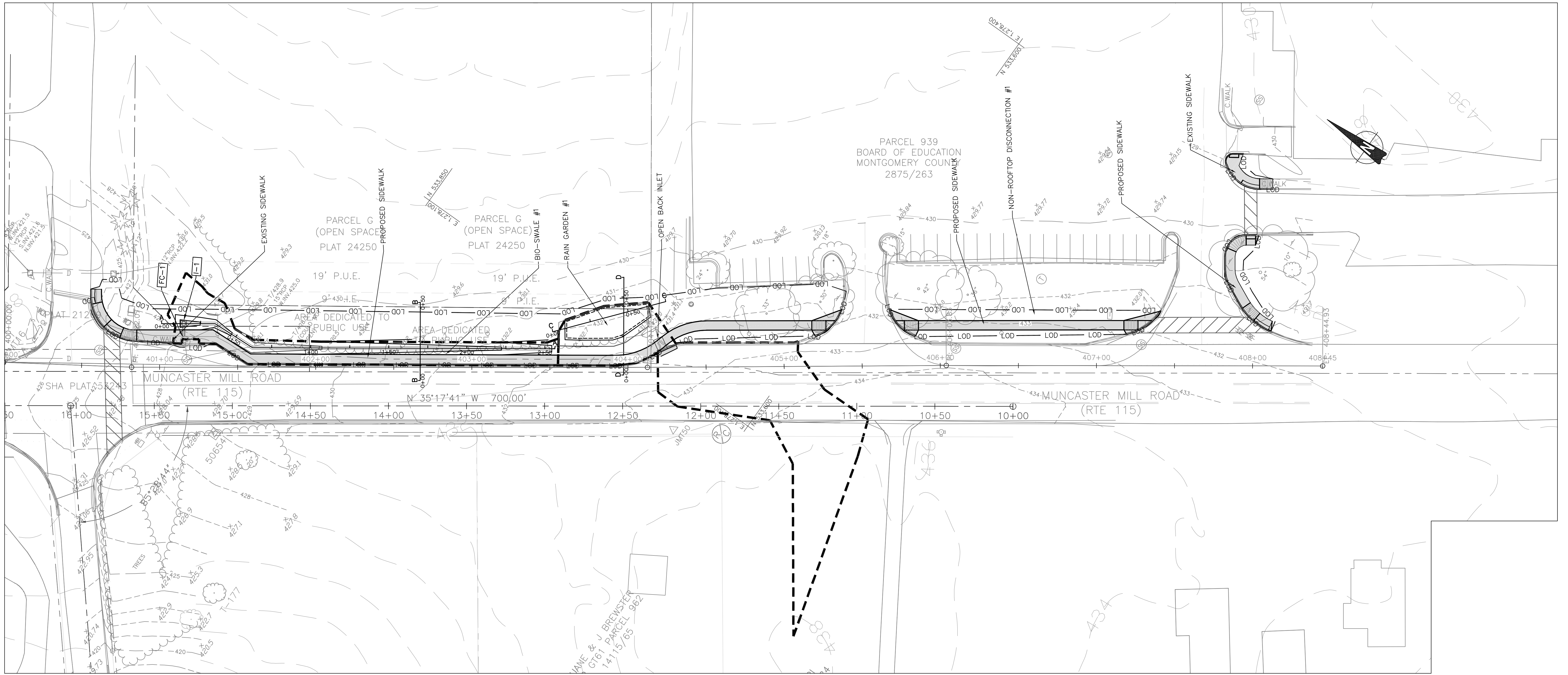
Chief, Division of Transportation Engineering _____ Date _____

Designed by: DLA Drawn by: FGY Checked by: SAM

**EROSION AND SEDIMENT CONTROL
SC-03 DETAIL SHEET
NEEDWOOD ROAD
BIKE PATH/TRAIL-PHASE II**

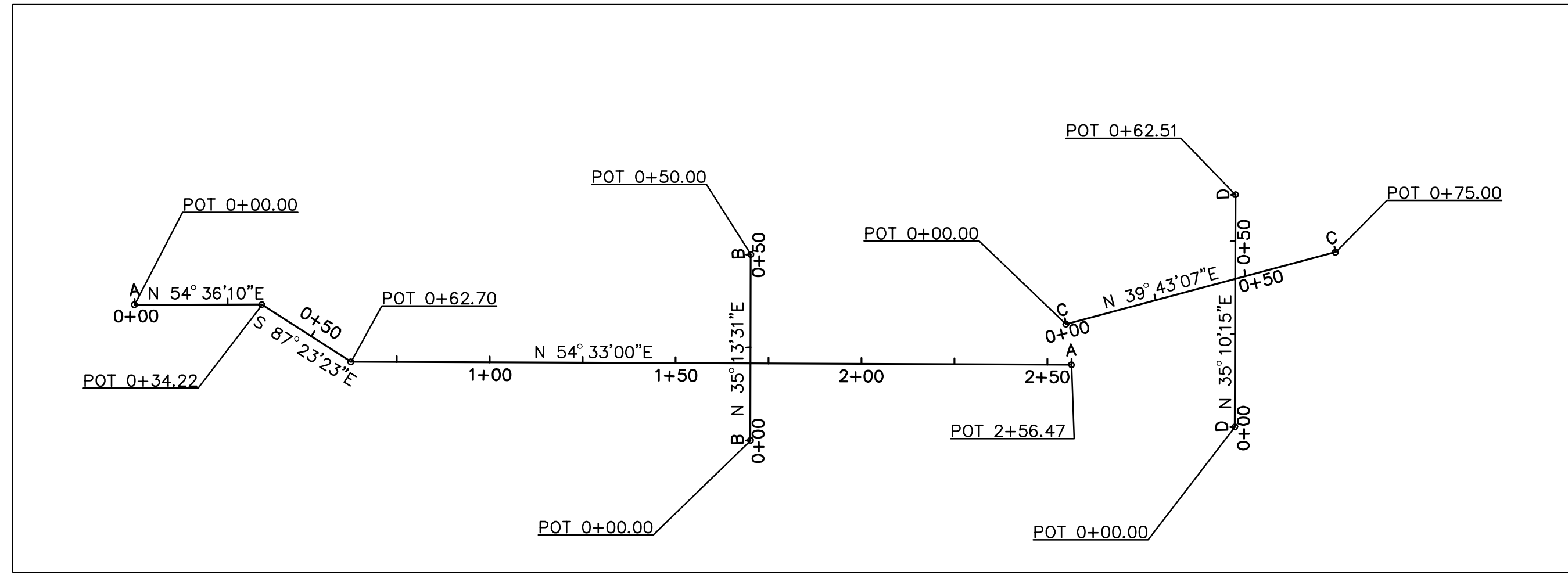
SCALE: AS SHOWN DATE: SEPTEMBER 2015

Project No. : 501304 SHEET 6 of 9



LEGEND

- EX. CONTOUR (SURVEY)
- EX. CONTOUR (GIS)
- PROPOSED CONTOUR
- ▭ EX. BUILDING
- PROPERTY BOUNDARY
- ▨ PROPOSED PATH/TRAIL - PERVIOUS PAVING
- ▨ PROPOSED ASPHALT PATH/TRAIL - IMPERVIOUS
- ⊗ TREES TO BE REMOVED
- DRAINAGE AREA BOUNDARY
- TPF --- TREE PROTECTION FENCE



BASELINE CONTROL COORDINATES			
LOCATION	STATION	NORTHING	EASTING
A (A-A)	POT 0+00.00	533,944.33	1,277,936.37
	POT 0+34.22	533,916.43	1,277,956.19
	POT 0+62.70	533,887.98	1,277,957.48
	POT 2+56.47	533,729.47	1,278,068.93
B (B-B)	POT 0+00.00	533,788.13	1,278,002.42
	POT 0+50.00	533,816.97	1,278,043.27
C (C-C)	POT 0+00.00	533,736.99	1,278,076.98
	POT 0+75.00	533,689.06	1,278,134.67
D (D-D)	POT 0+00.00	533,683.94	1,278,080.68
	POT 0+62.51	533,719.95	1,278,131.78

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed _____ Date _____	WRC Reviewed _____ Date 5/26/15	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		

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

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

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



NO.	REVISION	DATE	BY

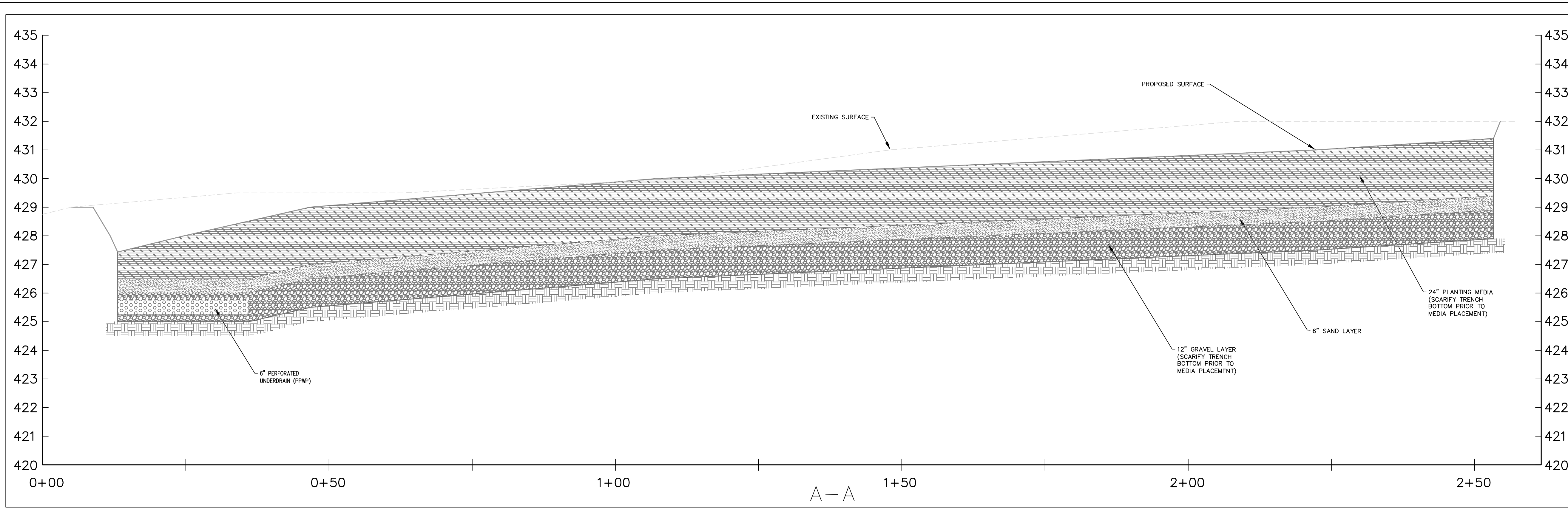
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	_____ Date _____
APPROVED	_____
Chief, Division of Transportation Engineering	_____ Date _____
Designed by: XXX	Drawn by: XXX Checked by: _____

SWM-01 PLAN SHEET
NEEDWOOD ROAD
BIKE PATH/TRAIL-PHASE II

SCALE: 1"=30'

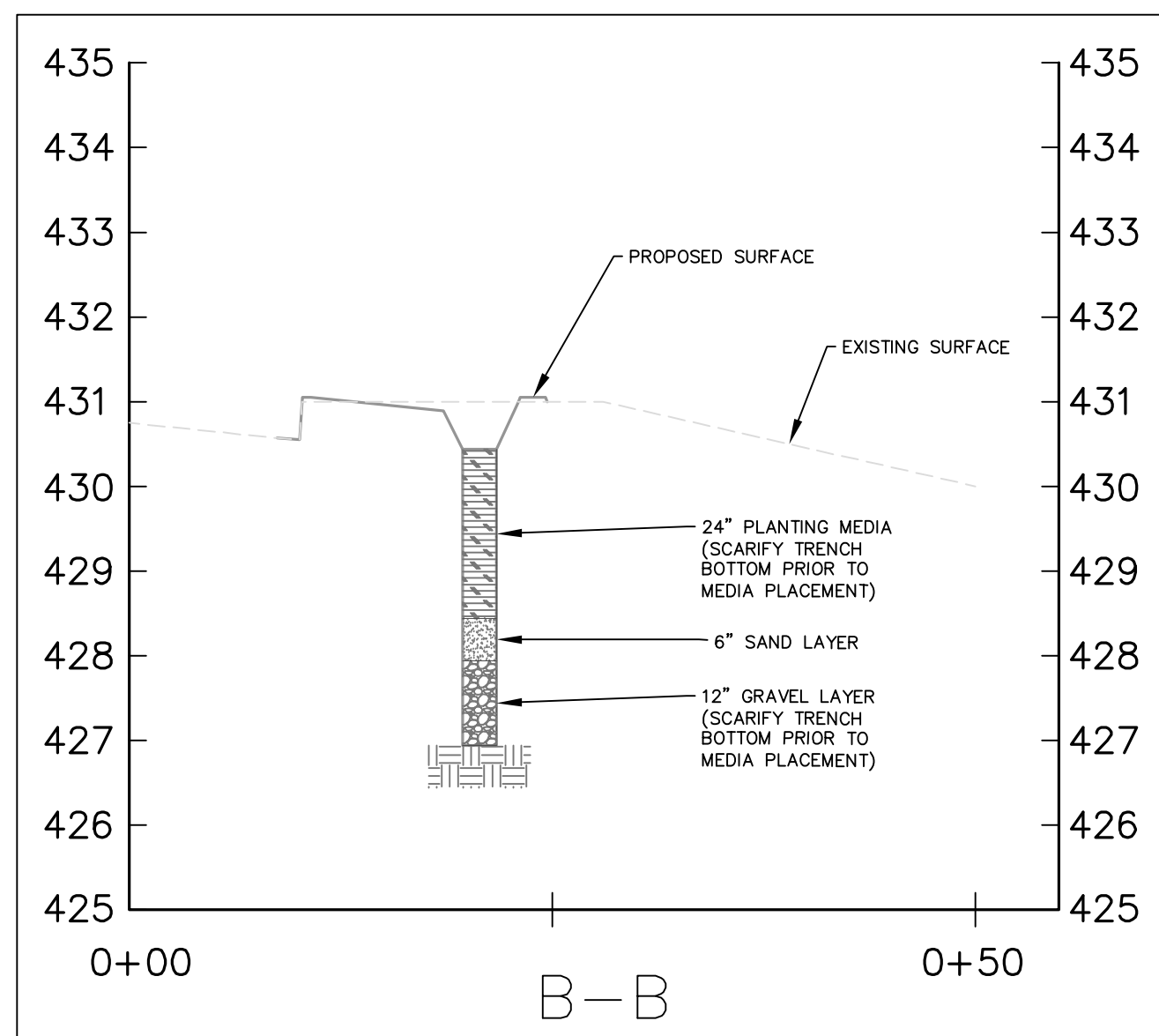
DATE: SEPTEMBER 2015

Project No. : 501304 SHEET 8 of 9

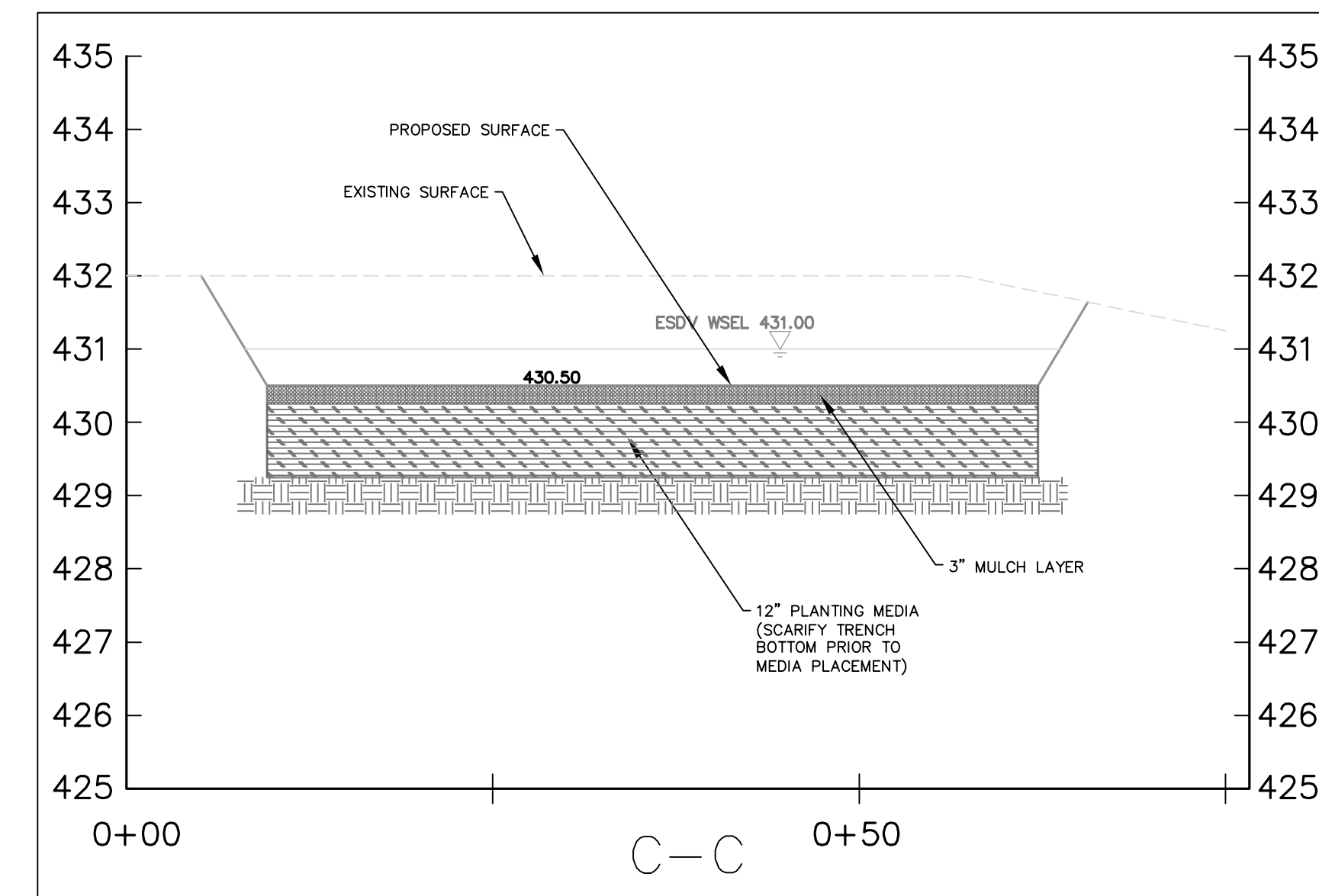


CONSTRUCTION INSPECTION CHECK-OFF LIST FOR SWALES		
STAGE	MCDPS INSPECTOR	OWNER/DEVELOPER
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS inspector may waive an inspection, and allow the owner/ developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. The permittee must maintain a "record set" of approved SC/SM plans on-site at all times. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.	INITIALS/DATE	INITIALS/DATE
1. Placement of backfill of underdrains and installation of diaphragms, forebays, check dams, or weirs conforms to approved plans		
2. Final grading and establishment of permanent stabilization conforms to approved plans		

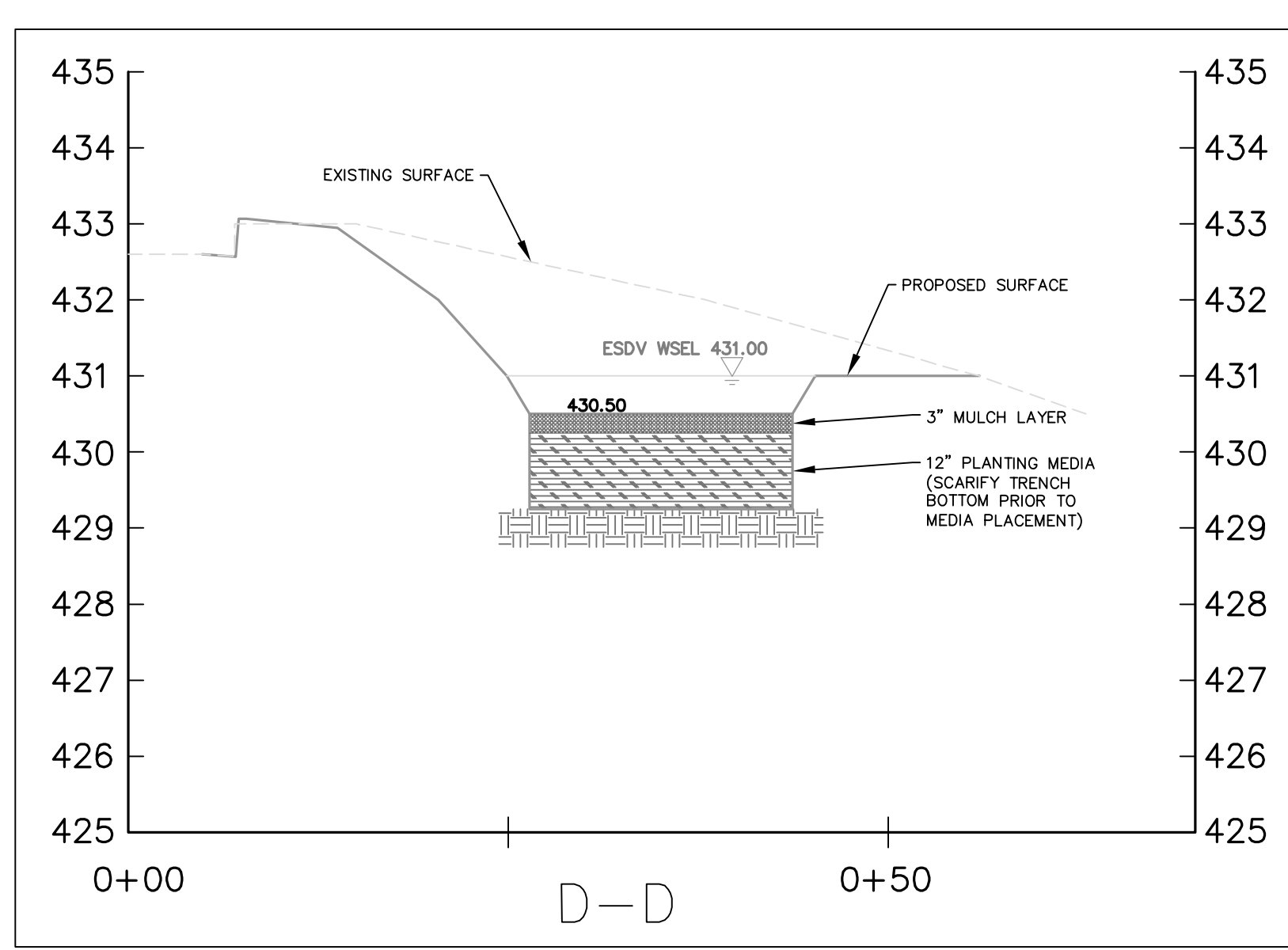
NOTES:
 1) PLANTING MEDIA SHALL CONFORM TO MONTGOMERY COUNTY MICRO-BIORETENTION FACILITY PLANTING MEDIA SPECIFICATIONS, FOR A 12" RAIN GARDEN PLANTING MEDIA DEPTH. SPECIFICATIONS ARE AS FOLLOWS: 1/3 PERLITE OR SOLITE, 1/3 COMPOST AND 1/3 TOPSOIL. THE PERLITE SHALL BE COARSE GRADE HORTICULTURAL PERLITE. THE COMPOST SHALL BE HIGH GRADE COMPOST FREE OF STONES AND PARTIALLY COMPOSTED WOODY MATERIAL. THE TOPSOIL COMPONENT SHALL MEET THE FOLLOWING CRITERIA: CONTAIN NO MORE THAN 10% CLAY, 10-25% SILT AND 60-75% SAND AND BE FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES.
 2) THE MULCH LAYER IS AN IMPORTANT PART OF THE RAIN GARDEN DEVEISE. MUCH OF THE POLLUTANT REMOVAL CAPACITY OF THE RAIN GARDEN SYSTEM IS WITHIN THE MULCH LAYER. THE SURFACE MULCH LAYER WILL CONSIST OF STANDARD DOUBLE SHREDDED AGED HARDWOOD MULCH. THE MULCH SHOULD BE APPLIED UNIFORMLY TO A DEPTH OF APPROXIMATELY 3 INCHES. YEARLY REPLENISHING MAY BE NECESSARY. PINE BARK IS NOT ACCEPTABLE.



CONSTRUCTION INSPECTION CHECK-OFF LIST FOR LANDSCAPE INFILTRATION		
STAGE	MCDPS INSPECTOR	OWNER/DEVELOPER
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.	INITIALS/DATE	INITIALS/DATE
1. Excavation to subgrade conforms to approved plans		
2. Placement of backfill and observation well conforms to approved plans		
3. Placement of filter fabric, soil, and gravel media conforms to approved plans		
4. Construction of appurtenant conveyance structures conforms to approved plans		
5. Final grading and establishment of permanent stabilization conforms to approved plans		



CONSTRUCTION INSPECTION CHECK-OFF LIST FOR LANDSCAPE INFILTRATION		
STAGE	MCDPS INSPECTOR	OWNER/DEVELOPER
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.	INITIALS/DATE	INITIALS/DATE
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4. Construction of appurtenant conveyance structures conforms to approved plans		
5. Final grading and establishment of permanent stabilization conforms to approved plans		



CONSTRUCTION INSPECTION CHECK-OFF LIST FOR LANDSCAPE INFILTRATION		
STAGE	MCDPS INSPECTOR	OWNER/DEVELOPER
MANDATORY NOTIFICATION: Inspection and approval of each practice is required at these points prior to proceeding with construction. The permittee is required to give the MCDPS Inspector twenty-four (24) hours notice (DPS telephone 240-777-0311). The DPS inspector may waive an inspection, and allow the owner/developer to make the required inspection per a prior scheduled arrangement which has been confirmed with the DPS inspector in writing. Work completed without MCDPS approval may result in the permittee having to remove and reconstruct the unapproved work. Upon completion of the project, a formal Stormwater Management As-Built must be submitted to MCDPS unless a Record Drawing Certification has been allowed instead. Each of the steps listed below must be verified by either the MCDPS Inspector OR the Owner/Developer.	INITIALS/DATE	INITIALS/DATE
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4. Construction of appurtenant conveyance structures conforms to approved plans		
5. Final grading and establishment of permanent stabilization conforms to approved plans		

MONTGOMERY CO. DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
_____	WRC 5/26/15	Reviewed _____ Date _____
Reviewed _____ Date _____	Reviewed _____ Date _____	Approved _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		

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 uphill or downhill properties.

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION GAITHERSBURG, MARYLAND				SWM-02 DETAIL SHEET NEEDWOOD ROAD BIKE PATH/TRAIL-PHASE II	
RECOMMENDED FOR APPROVAL Chief, Design Section _____ Date _____ APPROVED Chief, Division of Transportation Engineering _____ Date _____				SCALE: 1"=30' DATE: SEPTEMBER 2015	
Designed by: XXX Drawn by: XXX Checked by: _____				Project No.: 501304 SHEET 9 of 9	