MCPB

Item No. 11 Date: 7/9/2015

#### Dowdens Station, LMA G-957, Preliminary Forest Conservation Plan and Preliminary Water Quality Plan



Katherine Nelson, Planner Coordinator, Area 3 Division <u>Katherine.Nelson@montgomeryplanning.org</u>, 301-495-4622 Richard Weaver, Supervisor, Area 3 Division <u>Richard.Weaver@montgomeryplanning.org</u> (301) 495-4544 Kipling Reynolds, Chief, Area 3 Division, <u>Kipling.Reynolds@montgomeryplanning.org</u>

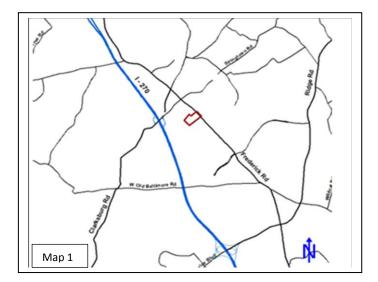
Staff Report Date: 6/26/2015

# Dowdens Station Local Map Amendment: G-957 B. Preliminary Water Quality Plan

#### C. Preliminary Forest Conservation Plan

Request for a Local Map Amendment for reclassification of a 24.37-acre property from R-200 Zone to PD-4 Zone, for the development of up to 105 detached and attached single-family dwelling units, located on the west side of Frederick Road (MD 355), 1,300 feet north of its intersection with Shawnee Lane, known as Garnkirk Farms Parcel N760, part of Lot 21 and Parcel N888 Lot 22 tax map EW31, Clarksburg, 1994 Clarksburg Master Plan and Hyattstown Special Study Area.

**Staff Recommendation:** Approval with Conditions **Applicant:** Clarksburg Mews, LLC

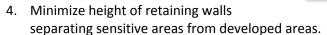


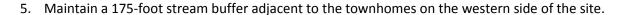
#### **Summary**

- There are three items for Planning Board review for the Dowdens Station project: the Local Map Amendment, the Preliminary Forest Conservation Plan and the Special Protection Area (SPA) Preliminary Water Quality Plan. This memorandum covers staff's review and recommendations on the Preliminary Water Quality Plan and the Preliminary Forest Conservation Plan.
- The Board's actions on the Preliminary Forest Conservation Plan and the Preliminary Water Quality Plan are regulatory and binding.
- The regulatory approvals covered by this staff report are only valid if the Local Map amendment is subsequently approved by the County Council.

#### STAFF RECOMMENDATIONS

- APPROVAL of the Clarksburg Special Protection Area Preliminary Water Quality Plan, subject to the following conditions:
  - Conformance to the conditions as stated in Montgomery County Department of Permitting Services (MCDPS) Preliminary Water Quality Plan approval letter dated June 11, 2015 (Attachment A).
  - 2. The impervious surfaces on the property are limited to no more than 30 percent of the net tract area.
  - 3. If the stream crossing is permitted at preliminary plan, it must not disturb natural stream flow or wetlands.







- 1. Prior to any land disturbing activities, the Applicant must obtain approval of a Final Forest Conservation Plan consistent with the Preliminary Forest Conservation Plan and Planning Board conditions
- The Applicant is required to record a Category I Conservation Easement over areas of forest
  retention as shown on the Forest Conservation Plan approved by the Planning Board. The
  easement must be approved by the M-NCPPC Office of General Counsel and recorded by deed
  in the Montgomery County Land Records after site plan approval and before any land disturbing
  activities.

#### **DISCUSSION**

#### SITE DESCRIPTION

The subject property is two un-platted parcels equaling 24.37 acres, in the R-200 Zone and located on the west side of Frederick Road (MD 355) and the future extension of Roberts Tavern Drive in the Clarksburg Master Plan area ("Property" or "Subject Property"). The Property is vacant and completely forested. The topography is rolling with moderate to extreme steep slopes and one area of level terrain. The Property includes a network of stream valleys, wetlands and drainage swales that direct runoff to the south into a tributary stream draining to the Little Seneca Creek. This stream valley has been protected by a conservation easement on off-site developments to the north and west of this site.





A Natural Resources Inventory/Forest Stand Delineation (NRI/FSD #420132130) was approved on April 21, 2014. The Property is located within the Clarksburg SPA and the Little Seneca Creek watershed, a Use Class IV-P watershed. The Property includes an unnamed tributary of Little Seneca Creek that begins on the west side of the Property. The Countywide Stream Protection Strategy rates that quality of streams in this watershed as "good". Streams, floodplains, wetlands, and environmental buffers on site total approximately 9.22 acres or approximately 39 percent of the gross tract area. The Property has two different forested areas. The first, on the western side of the Property, is a



mature, stable ecosystem with many specimen trees and rates as high priority for retention. The second forest on the eastern side of the Property is approximately 35-years old and contains many invasive species. The forest that is located outside of the streams and wetland buffer areas on the Property is considered a moderate priority for retention.

#### PROJECT DESCRIPTION

The applicant, Clarksburg Mews, ("Applicant") is requesting to rezone the Property from the R-200 Zone to the PD-4 Zone. The Applicant proposes to construct a total of 105 residential units, including 21 single-family detached, and 84 single-family townhouse units. Fourteen of the townhome units are proposed for MPDUs. The Applicant proposes reservation of land for the Master Plan recommended future alignment of Frederick Road and Roberts Tavern Drive.

#### **SPECIAL PROTECTION AREA REQUIREMENTS**

The Property is within the Clarksburg SPA and is the subject of a Local Map Amendment application which requires a Development Plan. Therefore, the Applicant is required to obtain approval of a water quality plan under section 19-67 of the Montgomery County Code. This section of the code states:

19.67.01.01 Authority: In accordance with the procedures authorized in Chapter 19, Article V, entitled "Water Quality Review - Special Protection Areas," Section 19-67, the following Executive Regulation applies to an application for approval of, or significant amendment to, a development plan, diagrammatic plan schematic development plan, project plan, preliminary plan of subdivision, special exception, or site plan, in designated special protection areas.

19.67.01.03 Applicability: A. <u>Privately owned property</u>: Except as exempted under Section 4, all persons proposing to disturb land within a SPA must also submit a preliminary water quality plan and a final water quality plan if they are:

- (i) required by law to obtain approval of a development plan, diagrammatic plan, schematic development plan, project plan, special exception, preliminary plan of subdivision, or site plan; or
- (ii) seeking approval of an amendment to an approved development plan, diagrammatic plan, schematic development plan, project plan, special exception, preliminary plan of subdivision, or site plan; or

(iii) specifically required to submit a water quality plan in a land use plan, watershed plan, comprehensive water supply and sewer system plan amendment, or by resolution of the County Council.

Under the requirements of the Special Protection Area law, an SPA water quality plan must be reviewed in conjunction with the Local Map Amendment. Under the provision of the law, the Montgomery County Department of Permitting Services and the Planning Board have different responsibilities in the review of a water quality plan. The Planning Board's responsibility is to determine if requirements for environmental buffer protection and SPA forest conservation have been satisfied. In addition, the Board must review the appropriateness of the proposed impervious level of the new development.

#### MCDPS Special Protection Area Review Elements

In a letter dated June 11, 2015, MCDPS conditionally approved the elements of the SPA Preliminary Water Quality Plan under its purview including: a) stormwater management facilities, b) sediment control measure, and c) Best Management Practices (BMP) monitoring. A synopsis is provided below. (see also Attachment A).

The conditions may impact the Planning Board's part of the review of the water quality plan. For example, the fourth condition, "Provide safe non-erosive outfalls into the proposed green/HOA areas. It appears that the outfall located in the area near the pedestrian access to the future transit station may need to be moved further down slope." Compliance with this condition will result in more priority forest removal and wetland impact.

#### a) Stormwater Management

MCDPS will require that full Environmental Site Design (ESD) be achieved to meet the DPS performance goals. The Applicant's current plan relies heavily on a combination of micro-bioretention cells and planter box micro-bioretention to meet requirements.

#### b) Sediment and Erosion Control

Redundant sediment control structures will also be required, such as oversized traps, super silt fences for small drainage areas and phasing to promote quick stabilization. The MCDPS conditions for this element may impact the Planning Board's part of the review of the water quality plan. For example, the fourth condition, "Provide safe non-erosive outfalls into the proposed green/HOA areas. It appears that the outfall located in the area near the pedestrian access to the future transit station may need to be moved further down slope." Compliance with this condition will require additional priority forest removal and wetland impacts.

#### c) Monitoring of Best Management Practices

Required stream and BMP monitoring will be conducted by the Montgomery County Department of Environmental Protection with the Applicant required to pay a fee for this monitoring.

#### Planning Board Special Protection Area Review Elements

Area 3 Planning Staff has reviewed and recommends Planning Board approval of the elements of the SPA Preliminary Water Quality Plan with conditions:

- 1. Approved stormwater management plan and sediment control plan must conform to the limits of disturbance of the preliminary forest conservation plan.
- 2. Impervious levels must not exceed 30 percent of the net tract area.
- 3. The arch culvert stream crossing must not impact wetlands or their buffers and must minimize impacts to the natural flow of the stream.
- 4. Minimize height of retaining walls separating sensitive areas from developed areas.

#### **Environmental Guidelines**

The unnamed tributary to Little Seneca Creek has two branches that flow from the north with the confluence on the Property. This confluence area forms a much larger wide and braided stream that receives a large amount of flow. This area of the stream channel is between 20 feet and 100 feet wide below the confluence and interlaced with seeps, springs and wetlands. In addition, steep slopes with erodible soils lead down to the stream channel area.

#### Sewer Service Analysis

This Application proposes significant impacts to the Stream Valley Buffer (SVB). The main impact is the arch culvert proposal that will carry a gravity sewer (and pedestrian path) over the stream on the east side of the Property. (See Attachment B and C for background.) The 1994 Clarksburg Master Plan intended that the area, north of Shawnee Lane, west of MD 355, east of future Observation Drive and south of future Roberts Tavern Drive ("Subwatershed") be served by public sewer service. While not specifically determined or otherwise specified in the Master Plan, one can assume that public sewer service to this Subwatershed was to be extended from the south, up the small tributary, through the Clarksburg High School site, under Shawnee Lane and thence serving the Subwatershed with gravity sewer service. However, prior developments within this Subwatershed commenced at the far upstream (north) side of the Subwatershed well ahead of any such gravity sewer extension from the south. Two such developments each found ways to construct gravity sewer carefully built along the final contours of their respective developments which directed sewage flows by gravity into sewers within neighboring watersheds, thus circumnavigating the downstream properties (including the Subject Property) that might have benefitted from a comprehensive gravity sewer solution. The subject development now proposes to do the same as the developments to the north, however, with a rather unique means of maintaining gravity flow.

The WSSC strongly prefers gravity sewer service that is provided under conventional means of trenching pipe designed to convey sewage without mechanical assistance (pumping). Gravity sewer service has proven to be the most efficient and cost effective means of providing comprehensive sewer service to large populations. Hence, in order to determine the tract area for forest impacts and water quality impacts that are required to make the findings for this Development Plan application, it became necessary to determine how sewer infrastructure *might be* extended to the Property. In meetings with WSSC, they stated a preference for the gravity sewer described above, that would convey flows by gravity to a manhole located near the Clarksburg High School, more than 2,000 feet to the south. (Attachment B) This extension was problematic for both the Applicant and Staff since the Applicant did not control much of the properties that would be crossed by such an extension and Staff was concerned with the environmental impact to a large wetland/forest complex across the entire east and north side

of the High School property in the direct path of the potential gravity sewer. This sensitive area is protected by a forest conservation easement on the School property. (See page 3 of Attachment B)

Staff analyzed a modified version of the above solution which would be to extend gravity service from the Subject Property, south to Shawnee Lane, where a pumping station could be built (by the developer) on off-site properties. The pump station would then pump sewage to the closest available gravity sewer likely to the west along Shawnee Lane near the Garnkirk (Eastside) and Gallery Park developments. This pumping station at Shawnee Lane would be capable of serving the entire remaining Subwatershed. However, the Applicant does not have control or permission to cross downstream properties with the sewer or pump station. WSSC, while non-comital to the pump station alternative, remains in favor of a standard gravity option.

Given the impediments to the two options discussed above, the Applicant seeks to connect to the sewer infrastructure within the Garnkirk Farm subdivision west of the Property with a gravity sewer line "suspended" within a bridge that crosses the stream valley on the western side of the Property. Gravity flow is not possible if the pipe were to be buried through the stream valley buffer due to topography. By suspending, or enclosing, the sewer line within an elevated structure built across the stream valley, positive gravity flow can be maintained from the proposed development to the nearest existing gravity sewer located to the west in Observation Drive (currently under construction).



The proposal would be to bury the sewer line within a 35-foot wide, soil-filled arched span bridge using a bottomless culvert over the stream and wetlands. The length of the "bridge" would be 280 feet where an asphalt pedestrian path would be placed on top of the sewer pipe. The arched culvert would span 40 feet in an attempt to clear the stream and associated wetlands. , WSSC has agreed to study this option. The agency will make the decision about how to sewer this site at the time of preliminary plan.

The asphalt path will provide much needed pedestrian access to the proposed transit station located at the intersection of future Observation Drive and Shawnee Lane. The opening in the culvert is designed to allow the stream flow to pass through. However, the dynamic nature of the stream in this location and the adjacent wetlands make it impossible to avoid permanent impacts to this system with the proposed arch culvert design. The stream will have to be realigned, narrowed and channelized to insure that the stream is permanently flowing toward the culvert opening and not undermining the foundation of the culvert. The arch culvert spans the wetlands but does impact the wetland buffers located on each side of the wetland. This impact will initiate a wetland permit from appropriate agencies. A floodplain construction permit is also likely.

The arch culvert concept for the gravity sewer has the potential to be acceptable to WSSC and has many upsides especially for the pedestrian connection; however, its impact to this stream system will be permanent as with many road or asphalt pedestrian connections that place permanent features within the near stream area. Staff is particularly concerned with the amount of stream realignment that will be necessary to control the stream channel as it enters the culvert and as it flows through the culvert. A stream will naturally meander unless it is held in check by man-made structures. The attempt to span the stream and wetlands with the culvert may sound like a feasible way to avoid or minimize impacts, but Staff is convinced that the character of the stream, both upstream and downstream of the culvert, will be irreversibly altered. Direct impact to the stream buffer may also include multiple outfall

locations that cut channels through the forested slopes of the stream valleys. Should this be the sewer option that is ultimately chosen for this development, staff cannot stress the importance of the developer working with the County MCDEP to use available funds to restore to natural features of the stream to the maximum extent possible. The final water quality plan at the time of preliminary plan will show this information.

Other impacts to the environmental buffers are less direct. In order to build and engineer Dowdens Green Way around the second stream and an associated wetland on the site there will be a 10-20-foot grade change on three sides of the wetland and stream system, requiring retaining walls. However, the stream buffer will not be directly impacted. One of the purposes of the PD zone is to "minimize the amount of grading necessary for construction of a development." Grading and the use of large retaining walls should be minimized.

Finally, the Clarksburg master plan recommends a 175-foot stream buffer, "The Master Plan strongly encourages landowners to allow stream buffer areas within 175 feet of the stream to remain undisturbed . . ." Given the steep slopes with highly erodible soils, particularly along the western tributary, the strong encouragement from the plan should be followed along the western tributary.

#### *Imperviousness*

A main goal for new development in all SPAs is to reduce the area of impervious surfaces. The Clarksburg SPA, which was created following approval of the Clarksburg Master Plan and subsequently amended, specifies no maximum imperviousness cap in this portion of the SPA.

The Impervious Area Exhibit (Attachment D) proposed a post-development condition of 5.6 acres of impervious surface. The percentage of impervious surface shown on the exhibit is incorrect since the area of highway dedication should be deducted from the net tract area as in the forest conservation plan (See Attachment D). This staff report reflects the correct calculation of the impervious percentage by using the same impervious acreage shown on the exhibit. The impervious percentage of the site is 26.0 percent of the 21.57-acre net tract area. The Applicant anticipates the need for additional impervious area as the site development process continues. A future impervious exhibit will include additional elements such as accel/decel lanes, a turn lane on MD 355, site amenities such as play areas and pedestrian connections, additional parking spaces, modified dwelling unit sizes and a wider pedestrian connection across the tributary to Little Seneca Creek. For these reasons, the Applicant has proposed that the final impervious acreage may increase from 5.6 acres to a total of approximately 7.8 acres. This will bring the impervious level to approximately 36 percent of the net tract area.

The Property is currently zoned R-200. Staff has calculated impervious surface levels for typical developments across the county in the R-200 zone with sewer service to be approximately 26 percent. Staff has also calculated impervious levels of the PD-4 zone to be approximately 30 percent.

Because there is no imperviousness cap within this portion of the Clarksburg SPA, the Staff and the Planning Board have historically used the general county range for the zone as a goal. At 36 percent, the proposed project is greater than the expected impervious level of both the R-200 zone and the PD-4 zone. The current impervious exhibit (Attachment D) has minimized imperviousness while attaining the maximum density of the PD-4 zone, resulting in a 26 percent impervious level. The goal of this Application should be to stay below 30 percent of the net tract area.

#### **Forest Conservation**

This project is subject to the Montgomery County Forest Conservation law (Chapter 22A of the County code) under section 22A-4(a), which states that the law applies to:

A person required by law to obtain development plan approval, diagrammatic plan approval, project plan approval, preliminary plan of subdivision approval, or site plan approval;

The proposed project is the subject of a Local Map Amendment application, a required element of which is a Development Plan. Therefore, the Montgomery County Forest Conservation Law is applicable to the Application at this stage. The Applicant submitted Forest Conservation Plan No. G-957 (see Attachment E) on February 27, 2015. The FCP uses a net tract area of 21.57 acres, which is equal to the total tract area of 24.37 acres minus the proposed right-of-way dedications of 2.8 acres.

The FCP shows 13.3 acres of forest clearing and 8.17 acres forest retention. No forest mitigation is required due to the high level of forest retention. However, it is possible that the construction of Observation Drive may require permanent or temporary easements because of the extreme slopes in this area. This may require additional forest clearing in areas proposed to be retained by the applicant.

#### **Tree Variance**

Section 22A-12(b)(3) of the Montgomery County Forest Conservation Law provides criteria that identify certain individual trees as high priority for retention and protection. The law requires no impact to trees that: measure 30 inches or greater, DBH ("Protected Tree"); are part of a historic site or designated with an historic structure; are designated as a national, State, or County champion trees; are at least 75 percent of the diameter of the current State champion tree of that species; or trees, shrubs, or plants that are designated as Federal or State rare, threatened, or endangered species. Any impact to a Protected Tree, including removal or disturbance within the Protected Tree's critical root zone (CRZ) requires a variance. An application for a variance must provide certain written information in support of the required findings in accordance with Section 22A-21 of the County Forest Conservation Law. In the written request for a variance, an applicant must demonstrate that strict adherence to Section 22A-12(b)(3), i.e. no disturbance to a Protected Tree, would result in an unwarranted hardship as part of the development of a property.

#### Variance Request

The Applicant submitted a variance request dated February 24, 2015 for the impacts of Variance Trees by the proposed activities (Attachment F). The Applicant has requested a tree variance to impact six Variance Trees and to remove nine Variance Trees.

Tree #	Species	D.B.H (inches)	CRZ Impact	Reason for disturbance
8	Tulip Poplar	30	100%/Remove	Parking and Micro-Bioretention
10	Tulip Poplar	33	100%/Remove	Micro-Bioretention
14	Black Cherry	31	100%/Remove	Grading For Town Houses
16	Black Oak	43	100%/Remove	Grading For Town Houses
23	White Oak	30	100%/Remove	Grading For Town Houses
24	Black Oak	36	100%/Remove	Grading For Town Houses
32	Black Oak	37	34%	Grading For Town Houses
36	Black Oak	31	100%/Remove	Grading For Town Houses
41	Red Oak	32	100%/Remove	Grading For Town Houses
45	Red Oak	34	29%	Grading For Town Houses
46	Red Oak	30	4%	Grading For Town Houses
92	White Pine	33	11%	Grading For Town Houses
94	White Ash	34	11%	Grading For Town Houses
115	Tulip Poplar	37	100%/Remove	Sewer Connection/Pedestrian Bridge
116	White Oak	37	17%	Sewer Connection/Pedestrian Bridge

#### Justification of Unwarranted Hardship

Under Section 22A-21, a variance may only be considered if the Planning Board finds that leaving the Variance Trees in an undisturbed state would result in an unwarranted hardship.

This variance request is to allow development of a completely forested site, part of which is an older forest with a significant number of protected trees. The Property is highly constrained with slopes, streams and wetlands and the developable area is relatively limited. In addition, the Applicant proposes to connect to sewer service across a wide stream valley which contains many variance trees. It is not possible to avoid impact to these trees if the Property is to be developed. Not granting a variance would eliminate much of the developable area of the site and create an unwarranted hardship.

#### Variance Findings

Section 22A-21 of the County Forest Conservation Law sets forth the findings that must be made by the Planning Board in order for a variance to be granted.

Staff has made the following determination based on the required findings that granting of the requested variance:

Will not confer on the applicant a special privilege that would be denied to other applicants.

The Property is limited by road dedications, slopes, streams and wetlands, and the number of protected trees within the forest. These constrictions limit the developable area of the site. In order to develop

this Property, it is impossible not to impact Protected Trees. Therefore, this is not a special privilege to be conferred on the Applicant.

2. Is not based on conditions or circumstances which are the result of the actions by the applicant.

The requested variance is based on the constrained site conditions, the need for a sewer connection and the zoning density as proposed by the Applicant. This is not a result any action undertaken by the Applicant.

3. Is not based on a condition relating to land or building use, either permitted or non-conforming, on a neighboring property.

The variance is a result of the proposed site design and layout. The surrounding land uses do not have any inherent characteristics or conditions that have created or contributed to the need for a variance.

4. Will not violate State water quality standards or cause measurable degradation in water quality.

The granting of this variance will not adversely affect water quality beyond the proposed forest removal. Water quality will be impacted in particular by forest removal in the stream channel and within the stream buffer. Appropriate erosion and sediment controls will be installed, as specified in the Erosion and Sediment Control Plan for this Application.

#### Mitigation for Trees Subject to the Variance Provision

Mitigation for Protected Tree impact and removal is calculated by forest conservation worksheet, since all of the Protected Trees are located within forested areas. In this case, sufficient forest is being retained and additional mitigation is not required.

#### County Arborist's Recommendation on the Variance

In accordance with Montgomery County Code Section 22A-21(c), the Planning Department is required to refer a copy of the variance request to the County Arborist in the Montgomery County Department of Environmental Protection for a recommendation prior to acting on the request. The request was forwarded to the County Arborist on May 22, 2015 and is currently under review

#### Variance Recommendation

Staff recommends that the variance be granted.

The submitted Preliminary Forest Conservation Plan meets all applicable requirements of the Chapter 22A of the County Code (Forest Conservation Law).

#### CONCLUSION

The Special Protection Area Preliminary Water Quality Plan G-957 with conditions meets all applicable sections of Chapter 19 of the Montgomery County Code; therefore, Staff recommends approval, subject to the conditions cited on page 2.

The Preliminary Forest Conservation Plan No. G-957 with conditions meets all applicable section of Chapter 22A of the Montgomery County Code; therefore, Staff recommends approval, subject to conditions on page 2.

#### Attachments:

Attachment A: MCDPS Preliminary Water Quality Plan Approval Letter 6/15/2015 Attachment B: Sewer Alignment Agency Meeting Summary (DEP, WSSC, MCPD)

Attachment C: Proposed Area Sewer Alignments Attachment D: Impervious Area Exhibit, 3/11/15

Attachment E: Preliminary Forest Conservation Plan 2/27/2015

Attachment F: Variance Request 2/14/2015

Attachment G: Preliminary Water Quality Plan 5/29/15



#### DEPARTMENT OF PERMITTING SERVICES

Isiah Leggett
County Executive

Diane R. Schwartz Jones *Director* 

June 11, 2015

Mr. Pearce Wroe Macris, Hendricks and Glascock, P.A. 9220 Wightman Road, Suite 120 Montgomery Village, Maryland 20886

Re: Preliminary Water Quality Plan Request for

Dowden's Station SM File #: 270835

Tract Size/Zone: 24.4 acres/Proposed PD-5

Total Concept Area: 24.4 acres

Parcel(s): 780 and 888

Watershed: Little Seneca Creek/Clarksburg

Special Protection Area

Dear Mr. Wroe:

Based on a review by the Department of Permitting Services Review Staff, the Preliminary Water Quality Plan (PWQP) for the above mentioned site is **acceptable**. The Preliminary Water Quality Plan proposes to meet required stormwater management goals via a combination of micro-bioretention and planter box micro-bioretention to provide full ESD for the proposed development. This approval is for the elements of the Preliminary Water Quality Plan of which DPS has lead agency responsibility, and does not include limits on imperviousness or stream buffer encroachments.

The following **conditions** will need to be addressed **during** the Final Water Quality Plan (FWQP review or the detailed sediment control/stormwater management plan stage as noted below:

- 1. A detailed review of the stormwater management computations will occur at the time of detailed plan review.
- Provide documentation that the ESD features in the public Right-of-Way have been approved by MCDOT at the FWQP stage.
- 3. Provide safe outfalls from all planter boxes that outfall to public areas at the FWQP stage.
- 4. Provide safe non-erosive outfalls into the proposed green/HOA areas. It appears that the outfall located in the area near the pedestrian access to the future transit station may need to be moved further down slope.
- 5. Landscaping shown on the approved Landscape Plan as part of the future approved Site Plan are for illustrative purpose only and may be changed at the time of detailed plan review of the Sediment Control/Storm Water Management plans by the Mont. Co. Department of Permitting Services, Water Resources Section.

This list may not be all-inclusive and may change based on available information at the time.

255 Rockville Pike, 2nd Floor • Rockville, Maryland 20850 • 240-777-6300 • 240-777-6256 TTY

Mr. Pearce Wroe June 11, 2015 Page 2 of 2

The performance goals that were established at the pre-application meeting are to be met through the implementation of the Final Water Quality Plan. They are as follows:

- 1. Protect the streams and aquatic habitat.
- 2. Maintain the natural on-site stream channels.
- 3. Minimize storm flow run off increases.
- 4. Identify and protect stream banks prone to erosion and slumping.
- 5. Minimize increases to ambient water temperatures.
- 6. Minimize sediment loading.
- 7. Maintain stream base flows.
- 8. Protect springs, seeps, and wetlands.
- 9. Minimize nutrient loading.
- 10. Control insecticides, pesticides and toxic substances.

Payment of a stormwater management contribution in accordance with Section 2 of the Stormwater Management Regulation 4-90 **is not required**. A stream monitoring fee for the site area in the Piney Branch Special Protection Area (SPA) and a BMP monitoring fee for the disturbed area in the SPA is required.

This letter must appear on the sediment control/stormwater management plan at its initial submittal. The concept approval is based on all stormwater management structures being located outside of the Public Utility Easement, the Public Improvement Easement, and the Public Right of Way unless specifically approved on the concept plan. Any divergence from the information provided to this office; or additional information received during the development process; or a change in an applicable Executive Regulation may constitute grounds to rescind or amend any approval actions taken, and to reevaluate the site for additional or amended stormwater management requirements. If there are subsequent additions or modifications to the development, a separate concept request shall be required.

If you have any questions regarding these actions, please feel free to contact Leo Galanko at 240-777-6242.

Sincerely,

Mark C. Etheridge, Manager Water Resources Section

Division of Land Development Services

MCE: Img

cc:

C. Conlon L. Galanko SM File # 270835

ESD Acres:

24.4 acres

STRUCTURAL Acres:

0.0

WAIVED Acres:

0.0



#### MONTGOMERY COUNTY PLANNING DEPARTMENT

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

#### Montgomery County Long Range Sewer Service Technical Advisory Committee

Dowden's Station/Garnkirk Farms Local Map Amendment G-957

Friday December 6, 2013 Meeting Minutes

Attendees: Kenneth Dixon, WSSC

Mary Dolan, MCPD Katherine Nelson, MCPD Alan Soukup, MCDEP Elsabett Tesfaye, MCPD Rich Weaver, MCPD

#### **SUBJECT AREA**

The group discussed a number of scenarios for providing sewer service to the area of Clarksburg bounded by MD 355, Shawnee Lane, and the Garnkirk Farm subdivision. This area is bisected by a significant stream valley. This area is outlined in white on the air photo.

#### **BACKGROUND**

The 1994 Clarksburg Master Plan intended that this area be served by public sewer service. However, there are a number of challenges to the extension of sewer infrastructure to the subject area:



1. The most logical sewer outfall alignment according to WSSC policy, would be to extend infrastructure by gravity across the Clarksburg High School property, south of Shawnee Lane. This is problematic since the School buildings are concentrated on the south side of the property with only a minimal sewer extension from the south. This means that the nearest gravity sewer extension is over 2000' feet downstream of the subject area. In addition, there is a large wetland/forest complex across the entire east and north side

- of the school property. This sensitive area is protected by a conservation easement.
- 2. In order to access the sewer infrastructure within the Garnkirk Farm subdivision (superimposed on the air photo) to the east of the subject area, the landscape would need to be restructured to create the necessary grade. In addition, the steep stream valley between the Garnkirk Farm subdivision and the subject area would have to be filled in order to achieve a gravity connection. This solution would only end up serving the north side of the subject area by gravity. The southern part of the subject property would require other sewer service solutions.
- 3. The sewer infrastructure to the north of this area (see orange lines and manholes on the air photo) is uphill from this property and is only accessible by pumping.
- 4. Access to sewer infrastructure on the east side of MD-355 is distant and would also require pumping.

#### **DISCUSSION**

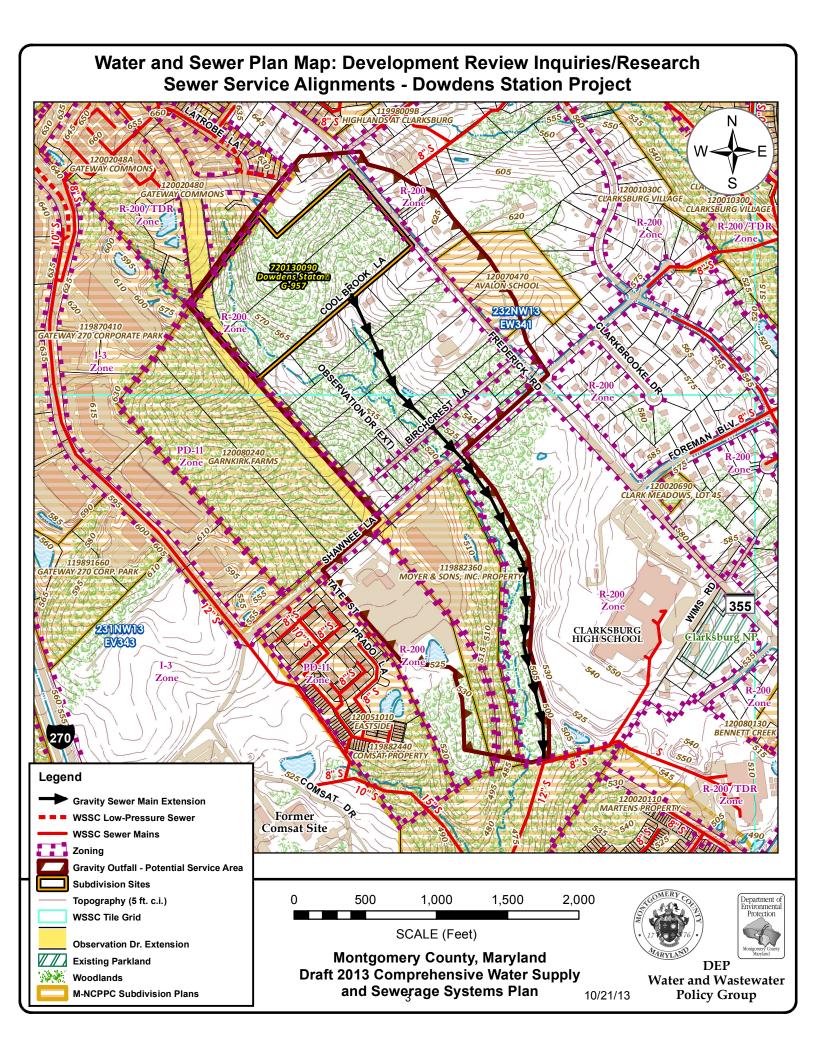
The group discussed the various options for providing sewer service to the subject area. This discussion included the proposal from the developer of Dowden's Station Local Map Amendment G-957 described in #2 above.

The general agreement included the following:

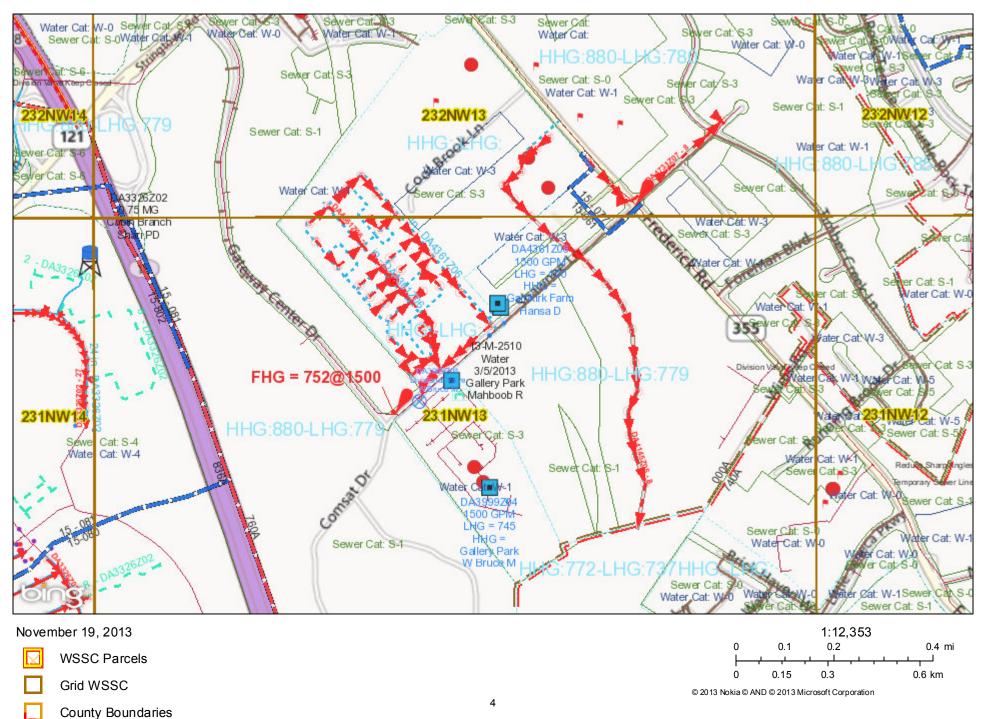
- 1. The subject area must be served comprehensively. Partial solutions for specific areas will make it unlikely that remaining areas will ever receive public sewer service as planned.
- 2. Service by gravity is the preferred method.
- 3. The preferred sewer alignment is an extension of the outfall located on the Clarksburg High School site. The alignment should be extended on the north east side of the stream and outside the easement area wherever possible. This avoids stream crossings and is accessible to the majority of the subject area's development potential.

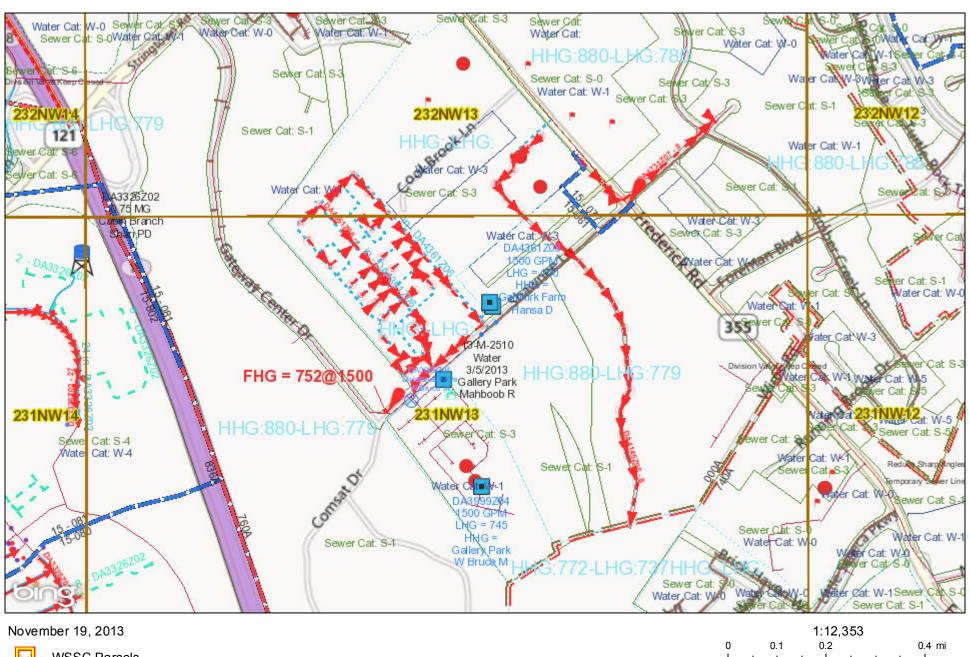
Although not ideal, a modified version of the above solution would be to follow this alignment across the subject area only as far as Shawnee Lane. A pumping station in this location would then pump west over to the outfall in the Eastside subdivision. This modified solution would be subject to WSSC approval.

The attached graphic shows the preferred sewer outfall alignment.

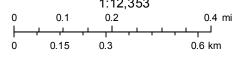


## Clarksburg Proposals in DSG Planned Assets Layer

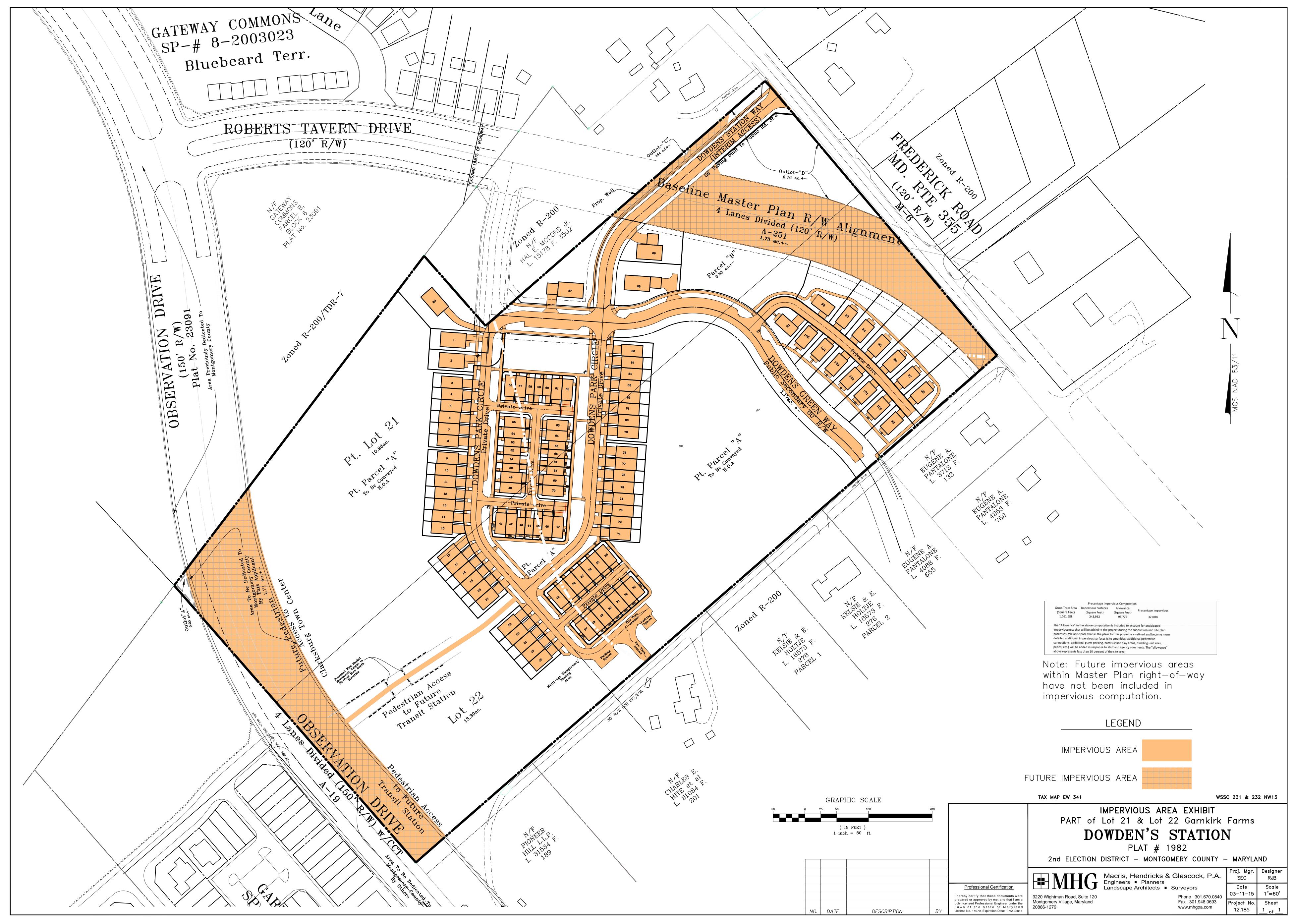


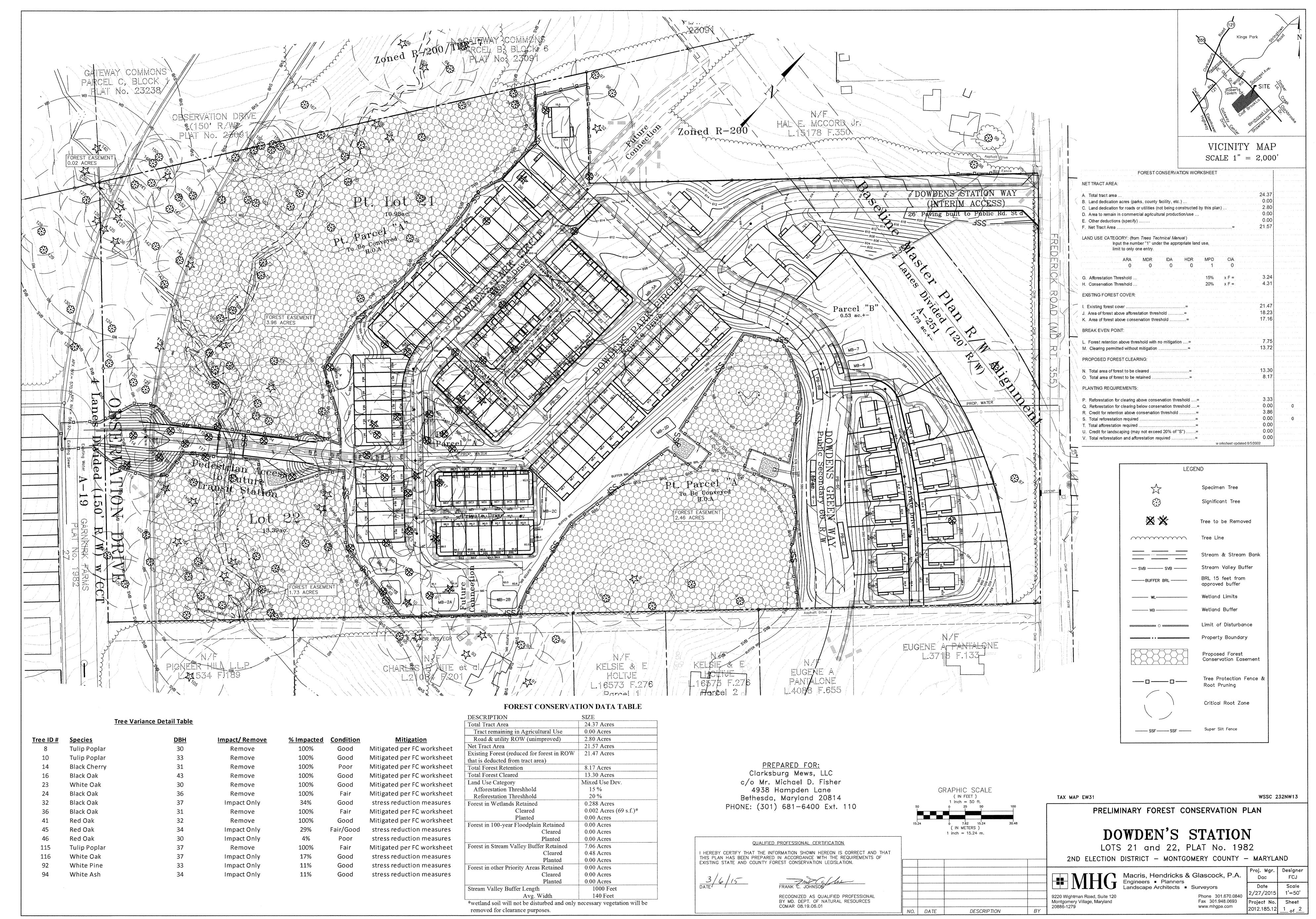


WSSC Parcels
Grid WSSC
County Boundaries

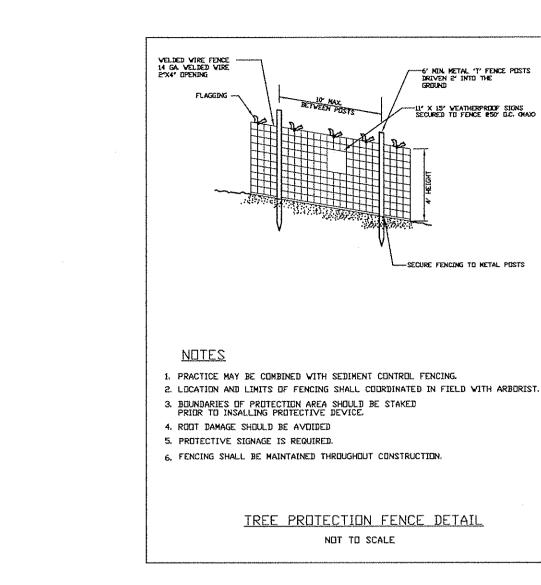


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[\\12185\dwg\FC\_11\_01.dwg, 1 of 2, 3/6/2015 10:35:39 AM, Copyright © 2014 Macris, Hendricks & Glascock, F



Liriodendron tulipifera

Liriodendron tulipifera

Liriodendron tulipifer

Liriodendron tulipifera

Linodendron tulipifera

Liniodendron tulipifera

Liriodendron tulipifera

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Liriodendron tulipifera

Liriodendron tulipifera

Quercus alba

Quercus prinas

Quercus prinas

Acer nibnim

Quercus alba

26 4776

49

4069

4776

16963

9156

27 5150

25 23 4416

24

24

25

39

26

27

27

26 4776

29 5942

4416

4416

4776

Temporary Signage

FOREST/TREE

RETENTION

AREA

MACHINERY DUMPING

OR STORAGE OF

ANY MATERIALS IS

PROHIBITED

VIOLATORS ARE SUBJECT TO

FINES AS IMPOSED BY THE

MARYLAND FOREST

CONSERVATION ACT OF

3. Avoid injury to roots when placing posts for the signs.

4. Signs should be posted to be visible to all construction

1. Attachment of signs to trees is prohibited.

Signs should be properly maintained.

personnel from all directions.

NOTE:

8167

4069

4069

39 Good 51 Good

36 Good

42 Good

39 Dead

52.5 Good

40.5 Good

37.5 Good

36 Good

36 Good

37.5 Good

40.5 Good

43.5 Good

43.5 Good

37.5 Good

37.5 Good

40.5 Good

40.5 Good

36 Good

73.5 Poor, Deadwood, large cavity

51 Fair/Poor, Multistemmed @ 8', cavity/rot

58.5 Fair/Poor, Cavity, deadwood, codom. @ 6', split

54 Good; Multistem @ 5'

51 Good; (Off-site)

45 Good; (Off-site)

40.5 Good; Deadwood

36 Good; Deadwood

39 Good; (Off-site)

36 Good; (Off-site)

39 Good; Deadwood

37.5 Fair/Poor, Cavity

37.5 Fair/Good; Deadwood, barbed wire

42 Fair, Cavity, deadwood

36 Good; Deadwood

39 Good; Deadwood

40.5 Good; Deadwood

40.5 Fair/Good; Growth/cavity issue

36 Fair, Cavity, barbed wire, deadwood

INSPECTIONS

grading begins

conservation

All field inspections must be requested by the applicant

Tree Save Plans and Forest Conservation Plans without Planting Requirements

have been installed, but before any clearing and grading begin.

4. Before the start of any required reforestation and afforestation planting

Additional Requirements for Plans with Planting Requirements

1. After the limits of disturbance have been staked and flagged, but before any clearing or

2. After necessary stress reduction measures have been completed and protection measures

3. After completion of all construction activities, but before removal of tree protection

5. After the required reforestation and afforestation planting has been completed to verify

that the planting is acceptable and prior to the start the maintenance period

6. At the end of the maintenance period to determine the level of compliance with the

fencing, to determine the level of compliance with the provision of the forest

Field Inspections must be conducted as follows:

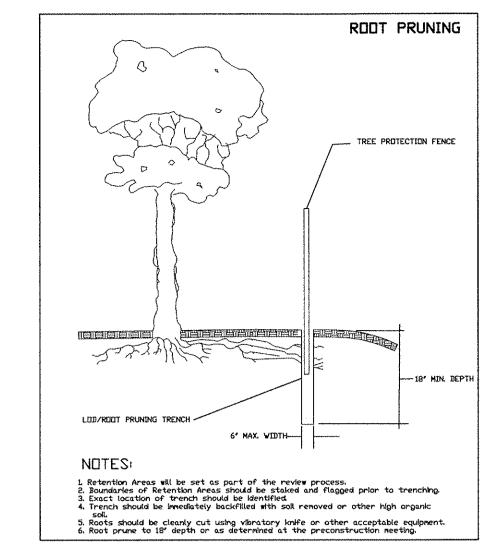
NOTE: Tree Protection Fence shall be installed on top o the Limits of Disturbance. For purposes of legibility only, the Tree Protection Fence is graphically represented adjacent to the LOD.

TREE PROTECTION FENCE DETAIL

NOT TO SCALE

6' MIN. METAL 'T' FENCE POSTS DRIVEN 2' INTO THE GRIEND

LI' X 15' VEATHERPROOF SIGNS SECURED TO FENCE 850' D.C. GIAXO



\* Root Prune at LOD unless otherwise noted

NOTE: Tree Protection Fence shall be installed on top of the Limits of Disturbance. For purposes of legibility only, the Tree Protection Fence is graphically represented adjacent to the LOD.

## FOREST CONSERVATION PLAN NOTES

- 1. TOTAL SITE AREA = 24.37 ACRES (1,061,716 S.F.) AND CONSISTS OF PARCELS 780 AND 888 AT LIBER 6934, FOLIO 82. PROPERTY IS LOCATED ON FREDERICK ROAD, SOUTH OF SUNCREST AVENUE
- 2. 2' CONTOUR TOPOGRAPHY INFORMATION BY MACRIS, HENDRICKS, & GLASCOCK, P.A.

SEPARATE FOREST STANDS.

- 3. BOUNDARY INFORMATION FROM DEEDS OF RECORD. 4. SOILS ON-SITE ARE MAPPED AS GLENVILLE SILT LOAM (MAPPING UNIT 5B), BAILE SILT LOAM (MAPPING UNIT 6A), BRINKLOW-BLOCKTOWN CHANNERY SILT LOAM (MAPPING UNIT 16B), BRINKLOW-BLOCKTOWN CHANNERY SILT LOAM (MAPPING UNIT 16C), BRINKLOW BLOCKTOWN CHANNERY SILT LOAM (MAPPING UNIT 16D), OCCOQUAN LOAM (MAPPING UNIT 17B), AND BLOCKTOWN CHANNERY SILT LOAM (MAPPING UNIT 116E) ACCORDING TO SHEET 7 OF THE SOIL SURVEY OF MONTGOMERY COUNTY ISSUED JULY
- 5. THE SITE DRAINS TO THE CLARKSBURG TRIBUTARY OF LITTLE SENECA CREEK. THIS PORTION OF THE SENECA CREEK WATERSHED IS DESIGNATED AS CLASS IV-P WATERS BY THE STATE OF MARYLAND. THERE IS NO MAPPED MNCPPC OR FEMA 100-YEAR FLOODPLAIN. THE PROPERTY IS LOCATED IN THE CLARKSBURG SPECIAL PROTECTION
- 6. TWO STREAMS WERE LOCATED ON-SITE AS WELL AS SEVERAL WETLAND AREAS, AND SEVERAL SPRINGS. WETLAND AND STREAM VALLEY BUFFERS WERE SHOWN ACCORDINGLY PER THE SPA EXPANDED BUFFER REQUIREMENTS WHERE APPLICABLE. MOST OF THE WETLANDS ARE ALONG THE STREAMS. ONE WETLAND WAS FOUND OVER 200 FEET WEST OF THE STREAM IN THE CENTER OF THE SITE, AND THEREFORE WAS DETERMINED TO BE NOT HYDROLOGICALLY CONNECTED THUS THE EXPANDED WETLAND BUFFER IS NOT REQUIRED. 7. UTILITIES (I.E. WATER, SEWER, STORM DRAIN, CULVERTS, ELECTRIC, PHONE) ARE
- SHOWN BY SURVEY LOCATION. 8. THERE ARE 24.19 ACRES OF FOREST ON SITE WHICH ARE DIVIDED IN TO SEVEN
- 9. THE PROPERTY IS NOT LISTED AS A HISTORIC SITE BY M-NCPPC'S "LOCATIONAL ATLAS & INDEX OF HISTORIC SITES IN MONTGOMERY COUNTY MARYLAND". THE PROPERTY IS NOT LISTED AS A HISTORIC SITE NOR IS IT LOCATED WITHIN A HISTORIC DISTRICT ACCORDING TO M-NCPPC'S "PLACES FROM THE PAST: THE TRADITION OF GARDEZ BIEN IN MONTGOMERY COUNTY, MARYLAND; 2001". NO STRUCTURE OR EVIDENCE SUGGESTING HISTORICAL OR ARCHAEOLOGICAL SIGNIFICANCE
- WAS OBSERVED DURING SITE INVESTIGATION 10. MOST OF THE INDIVIDUAL TREE LOCATIONS ARE SURVEY LOCATED ALTHOUGH SOME ARE BY OCULAR ESTIMATE. THE TREE SURVEY WAS LIMITED TO THE NORTH SIDE OF THE SOUTHERN STREAM, AN ADDITIONAL TREE SURVEY WILL BE NEEDED FOR DISTURBANCE IN THIS AREA
- 11. FIELDWORK FOR THE INVENTORY WAS CONDUCTED ON 6/12/13, 6/14/2013, 6/17/13, 6/24/13 AND 4/2/14 BY FRANK JOHNSON
- 12. NO RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED ON-SITE AND DNR HAS NO RECORDS OF ANY. PER SITE CONDITIONS DNR SUGGESTS THAT THE SITE CONTAINS FOREST INTERIOR DWELLING BIRD SPECIES (FIDS).
- 13. NO TREES ON-SITE ARE OF A DIAMETER EQUAL OR GREATER TO THE CURRENT STATE OR COUNTY CHAMPIONS. NO TREES DIAMETER ON-SITE ARE 75% OR GREATER OF THE COUNTY 14. THE TREE INVENTORY IN NO WAY CONSTITUTES A HAZARD TREE SURVEY. TREE
- CONDITIONS ARE GENERALLY ACCURATE BASED ON VISUAL OBSERVATION PER USUAL AND CUSTOMARY PRACTICE IN ACCORD WITH STATE AND COUNTY FOREST CONSERVATION LEGISLATION. THE EXAMINATION DETAIL REQUIRED TO PROVIDE A COMPREHENSIVE ANALYSIS OF BIOLOGICAL AND STRUCTURAL HEALTH IS BEYOND THE SCOPE OF THIS INVESTIGATION. CONDITION RATINGS ARE THE OPINION OF THE UNDERSIGNED PREPARER AND NOT THE APPROVING AGENCY. MHG ASSUMES NO LIABILITY FOR INJURY OR PROPERTY DAMAGE THAT MAY OCCUR AS A RESULT OF TREE FAILURE ON THIS

NO.

Sequence of Events for Properties Required To Comply With Forest Conservation Plans and/or Tree Save Plans

### Pre-Construction

- 1. An on-site pre-construction meeting shall be required after the limits of disturbance have been staked and flagged, but before any clearing or grading begins. The owner shall contact the Montgomery County Planning Department inspection staff prior to commencing construction to verify the limits of disturbance and discuss tree protection and tree care measures. The attendants at this meeting should include: developer's representative, construction superintendent, ISA certified arborist or MD license tree expert that will implement the tree protection measures, Forest Conservation Inspector, and DPS sediment control inspector.
- 2. No clearing or grading shall begin before stress-reduction measures have been implemented. Appropriate measures may include, but are not limited to:
  - a. Root pruning b. Crown Reduction or pruning
- c. Watering
- d. Fertilizing
- e. Vertical mulching
- f. Root aeration matting

Measures not specified on the forest conservation plan may be required as determined by the Forest Conservation Inspector in coordination with the arborist

- 3. A State of Maryland licensed tree expert, or an International Society of Arboriculture certified arborist must perform all stress reduction measures. Documentation of stress reduction measures must be either observed by the Forest Conservation Inspector or sent to the Forest Conservation Inspector at 8787 Georgia Avenue, Silver Spring, MD 20910. The Forest Conservation Inspector will determine the exact method to convey the stress reductions measures during the pre-construction meeting.
- 4. Temporary tree protection devices shall be installed per the Forest Conservation Plan/Tree Save Plan and prior to any construction activities. Tree protection fencing locations should be staked prior to the pre-construction meeting. 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. Temporary tree protect devices may
- a. Chain link fence (four feet high)
- b. Super silt fence with wire strung between the support poles (minimum 4) feet high) with high visibility flagging.
- c. 14 gauge 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.
- 5. Temporary protection devices shall be maintained and installed by the contractor for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. No equipment, trucks, materials, or debris may be stored within the tree protection fence areas during the entire construction project. No vehicle or equipment access to the fenced area will be permitted. Tree protection shall not be removed without prior approval of Forest Conservation Inspector.
- 6. Forest retention area signs shall be installed as required by the Forest Conservation Inspector, or as shown approved plan.
- 7. Long-term protection devices will be installed per the Forest Conservation Plan/Tree Save Plan and attached details. Installation will occur at the appropriate time during the construction project. Refer to the plan drawing for long-term protection measures to be installed.

## **During Construction**

8. Periodic inspections by Forest Conservation Inspector will occur during the construction project. Corrections and repairs to all tree protection devices, as determined by the Forest Conservation Inspector, must be made within the timeframe established by the Forest Conservation Inspector.

# Post-Construction

- 9. After construction is completed, an inspection shall be requested. Corrective
- measures which may be required include:
- a. Removal and replacement of dead and dying trees b. Pruning of dead or declining limbs
- c. Soil aeration
- d. Fertilization
- e. Watering
- f. Wound repair g. Clean up of retention areas

after the tree protection fencing is removed.

10. After inspection and completion of corrective measures have been undertaken, all temporary protection devices shall be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both the Department of Permitting Services and the Forest Conservation Inspector. No additional grading, sodding, or burial may take place

TAX MAP EW31

WSSC 232NW13

DOWDEN'S STATION

PRELIMINARY FOREST CONSERVATION PLAN

LOTS 21 and 22, PLAT No. 1982

2ND ELECTION DISTRICT - MONTGOMERY COUNTY - MARYLAND

Macris, Hendricks & Glascock, P.A. Engineers Planners
Landscape Architects Surveyors

Phone 301.670.0840 Fax 301.948.0693 www.mhgpa.com

provisions of the planting plan, and if appropriate, release of the performance bond.

QUALIFIED PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS CORRECT AND THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF EXISTING STATE AND COUNTY FOREST CONSERVATION LEGISLATION.

BY MD. DEPT. OF NATURAL RESOURCES COMAR 08.19.06.01

RECOGNIZED AS QUALIFIED PROFESSIONAL

9220 Wightman Road, Suite 120 Montgomery Village, Maryland 20886-1279 DESCRIPTION DATE

Project No. | Sheet 2012.185.12

Dac

#### Macris, Hendricks & Glascock, P.A.

Engineers • Planners • Surveyors • Landscape Architects

9220 Wightman Road, Suite 120 Montgomery Village, Maryland 20886-1279

Phone 301.670.0840 Fax 301.948.0693



February 24, 2015

Maryland National Capital Park & Planning Commission 8787 Georgia Avenue Silver Spring, MD 20910

Re:

Dowden's Station

MHG Project No. 12.185.13

To Whom It May Concern:

On behalf of Clarksburg Mews, LLC c/o Mr. Michael D. Fisher, the applicant of the above referenced Forest Conservation Plan, we hereby request a variance for the removal of nine specimen trees and impact of six specimen trees, as required by the Maryland Natural Resources Article, Title 5, Subtitle 16, Forest Conservation, Section 5-1611, and in accordance with Chapter 22A-21(b) of the Montgomery County Code. In accordance with Chapter 22A-21(b) of the Montgomery County Code, the proposed removal/impact of fifteen trees over thirty inches in diameter would satisfy the variance requirements.

1. Describe the special conditions peculiar to the property which would cause the unwarranted hardship;

The subject property has a total tract area of 24.37 undeveloped acres with a net tract area of 21.57 acres, excluding 2.80 acres of unimproved road and utility right of way dedication. There are 24.19 acres of existing forest cover with 21.47 acres of forest after dedication. The applicant is proposing a residential subdivision on the site. Due to the site being almost completely forested, the site contains a number of significant and specimen trees. The property has two streams on the property, one crosses the property and the other, with the inclusion of a wetland, nearly bisects the property. A significant portion of the property is either part of a proposed dedication area or part of an environmental buffer, limiting the total developable area of the site making it impossible to avoid the subject trees. Eight of the specimen trees to be removed are in the center of the property outside of the buffer areas in the developable area of the property. The ninth tree to be removed is within the area dedicated to Observation Drive and is being impacted by utility connections. The six trees to be impacted have minimal impacts but cannot be avoided due to utility, grading, and/or stormwater management requirements.

More than the required forest conservation requirements are being met on-site via 8.47 acres of on-site forest to be put into a forest conservation easement. The site has been redesigned to minimize impacts to environmentally sensitive areas as much as possible. All necessary stress reduction measures will be applied to aid in the promotion of the impacted specimen trees' survivability. Because of these previously mentioned

aspects, disallowing the proposed removals and impacts would be a hardship that is not warranted in light of the special circumstances unique to Dowden Station.

2. Describe how enforcement of these rules will deprive the landowner of rights commonly enjoyed by others in similar areas;

The property is limited by the multiple road dedications, the streams, wetlands and the buffer areas. These areas constrict the development to the areas where the impacted trees are. The inability to impact and/or remove the subject trees would limit the development within the property. This creates a significant disadvantage for the applicant and deprives the applicant of the rights enjoyed by the neighboring and/or similar properties not subject to this approval process.

3. Verify that State water quality standards will not be violated or that a measurable degradation in water quality will not occur as a result of the granting of the variance;

A Stormwater Management Concept will be submitted for the proposed improvements. Approval of this plan will confirm that the goals and objectives of the current state water quality standards are being met.

4. Provide any other information appropriate to support the request.

Pursuant to Section 22A 21(d) Minimum Criteria for Approval.

(1) The Applicant will receive no special privileges or benefits by the granting of the requested variance that would not be available by any other applicants.

The variance will not confer a special privilege because the removals and impacts are due to the development of the site. The site constraints are explained above. The constraints constrict the development area of the property whereby the critical root zones of the subject trees cannot be avoided as part of the development process.

(2) The variance request is not based on conditions or circumstances which result from the actions of the applicant.

The variance is based upon site conditions and development constraints that developed and existed before the enactment of the specimen tree legislation. The requested variance is not based on conditions or circumstances which are the result of the applicant outside the norm of a development application allowed under the applicable regulations. The variance is based on the proposed site layout that is utilizing the areas that are available for development.

(3) The variance is not based on a condition relating to the land or building use, either permitted or nonconforming on a neighboring property.

The requested variance is a result of the proposed site design and layout on the property and not a result of land or building on a neighboring property.

(4) Will not violate State water standards or cause measurable degradation in water quality. Full ESD stormwater management will be provided as part of the proposed development.

The variance will not violate State water quality standards or cause measurable degradation in water quality. We are confident that the Montgomery County Department of Permitting Services will find the storm water management concept for the proposed project to be acceptable even if conditionally approved.

A copy of the Forest Conservation Plan and a variance tree spreadsheet has been provided as part of this variance request. Please let us know if any other information is necessary to support this request.

Please contact me via email, at <u>fjohnson@mhgpa.com</u>, or by phone, at (301) 670-0840 should you have any additional comments or concerns.

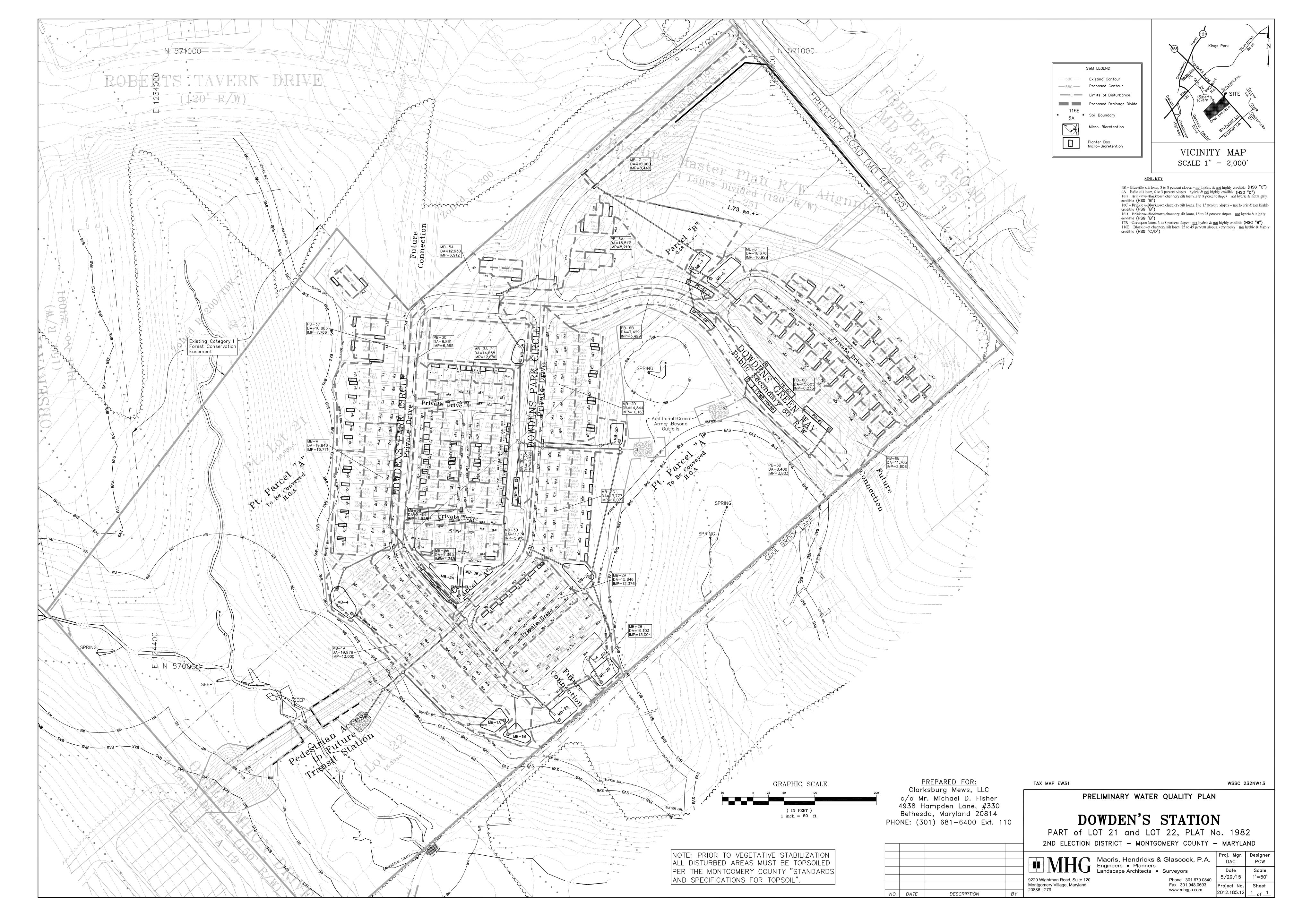
Thank you,

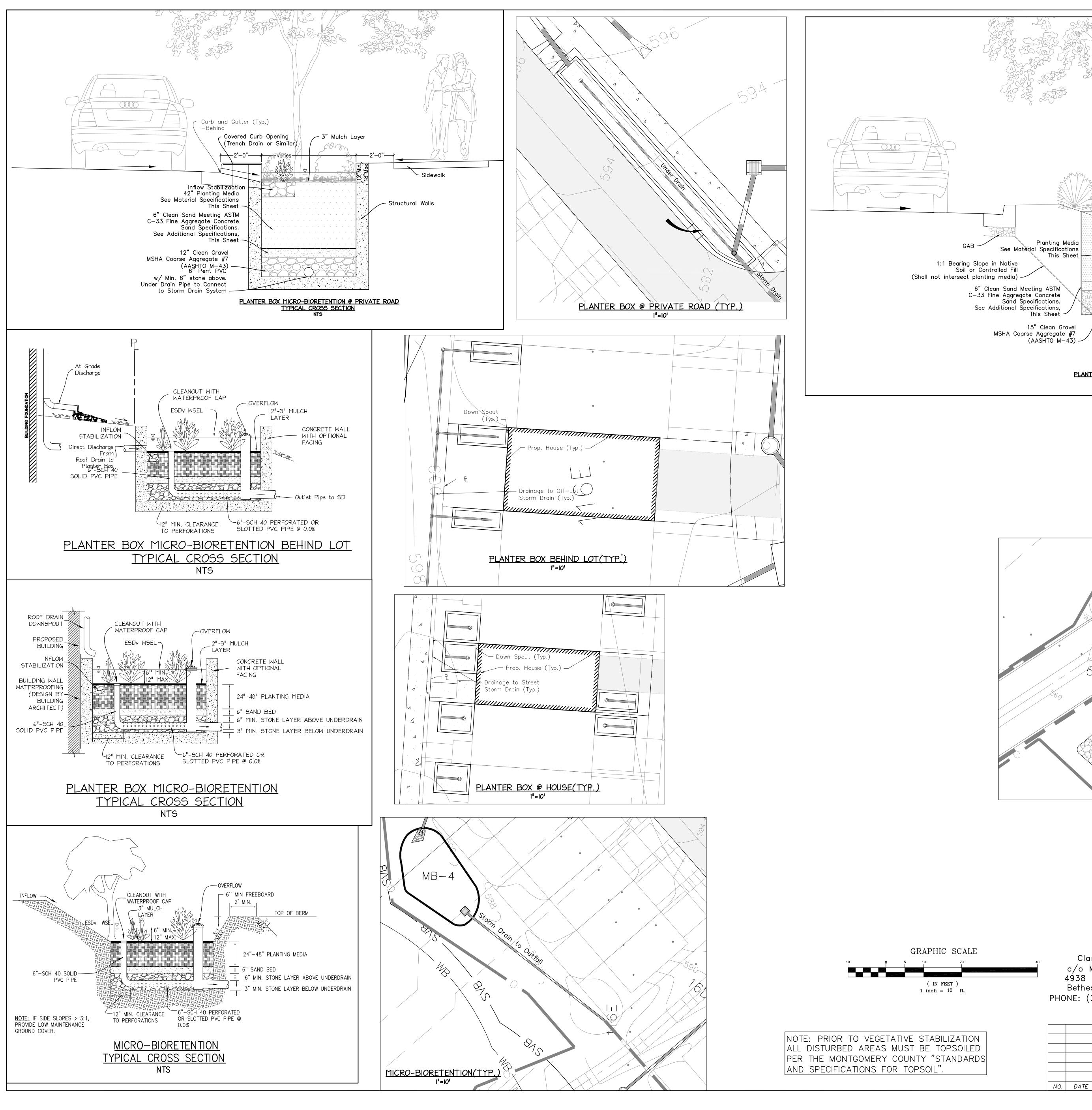
Frank Johnson

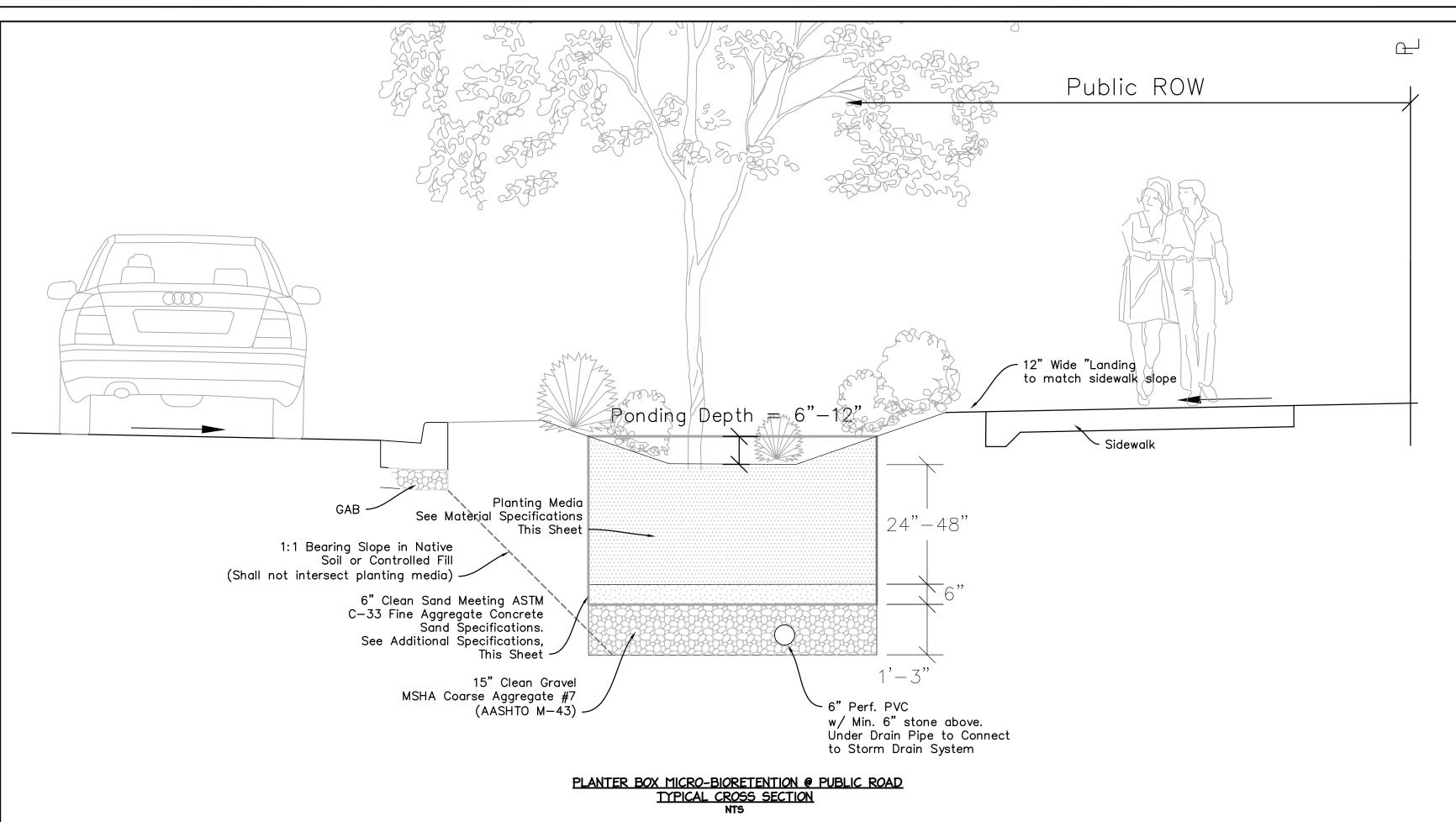
Fox Coffee

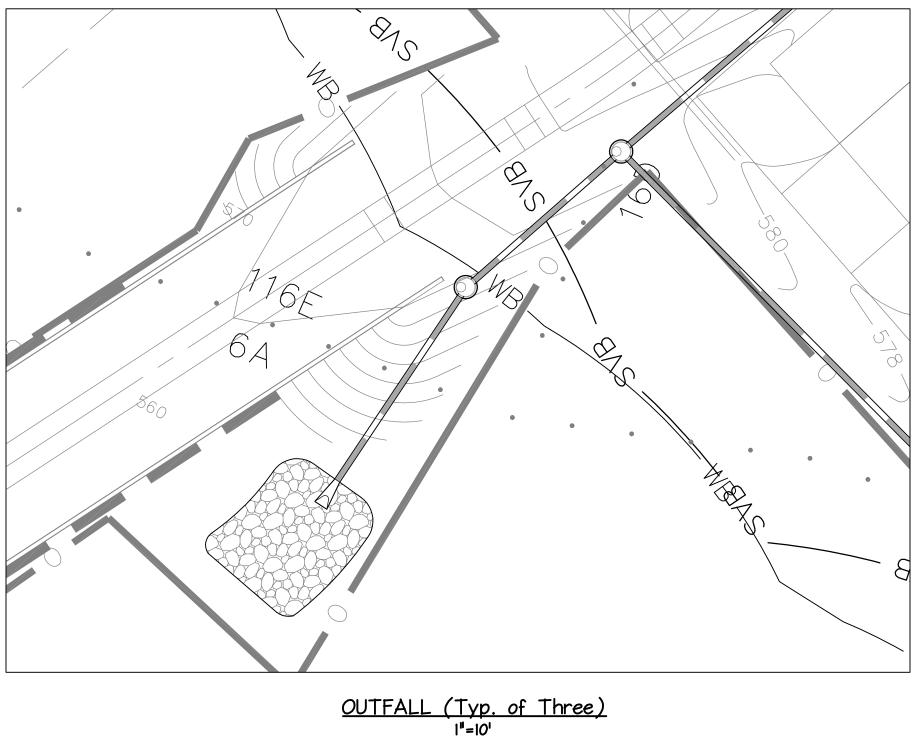
#### Tree Variance Detail Table

Tree ID #	Species	<u>DBH</u>	Impact/ Remove	% Impacted	Condition	Mitigation
8	Tulip Poplar	30	Remove	100%	Good	Mitigated per FC worksheet
10	Tulip Poplar	33	Remove	100%	Good	Mitigated per FC worksheet
14	Black Cherry	31	Remove	100%	Poor	Mitigated per FC worksheet
16	Black Oak	43	Remove	100%	Good	Mitigated per FC worksheet
23	White Oak	30	Remove	100%	Good	Mitigated per FC worksheet
24	Black Oak	36	Remove	100%	Fair	Mitigated per FC worksheet
32	Black Oak	37	Impact Only	34%	Good	stress reduction measures
36	Black Oak	31	Remove	100%	Fair	Mitigated per FC worksheet
41	Red Oak	32	Remove	100%	Good	Mitigated per FC worksheet
45	Red Oak	34	Impact Only	29%	Fair/Good	stress reduction measures
46	Red Oak	30	Impact Only	4%	Poor	stress reduction measures
115	Tulip Poplar	37	Remove	100%	Fair	Mitigated per FC worksheet
116	White Oak	37	Impact Only	17%	Good	stress reduction measures
92	White Pine	33	Impact Only	11%	Good	stress reduction measures
94	White Ash	34	Impact Only	11%	Good	stress reduction measures









PREPARED FOR: TAX MAP EW31 Clarksburg Mews, LLC c/o Mr. Michael D. Fisher 4938 Hampden Lane, #330 Bethesda, Maryland 20814 PHONE: (301) 681-6400 Ext. 110

PRELIMINARY WATER QUALITY PLAN

# DOWDEN'S STATION

PART of LOT 21 and LOT 22, PLAT No. 1982 2ND ELECTION DISTRICT - MONTGOMERY COUNTY - MARYLAND

WSSC 232NW13

Scale

1'=50'

		2110		
		▎▐▜▘▍▐▝▋		
		9220 Wightman		
		Montgomery Villa 20886-1279		
DESCRIPTION	BY			

Macris, Hendricks & Glascock, P.A.

Engineers Planners

Landscape Architects Surveyors

Proj. Mgr. Designer
DAC PCW Date 5/29/15 n Road, Suite 120 llage, Maryland Phone 301.670.0840 Project No. Sheet Fax 301.948.0693 www.mhgpa.com 2012.185.12 2 of 2

