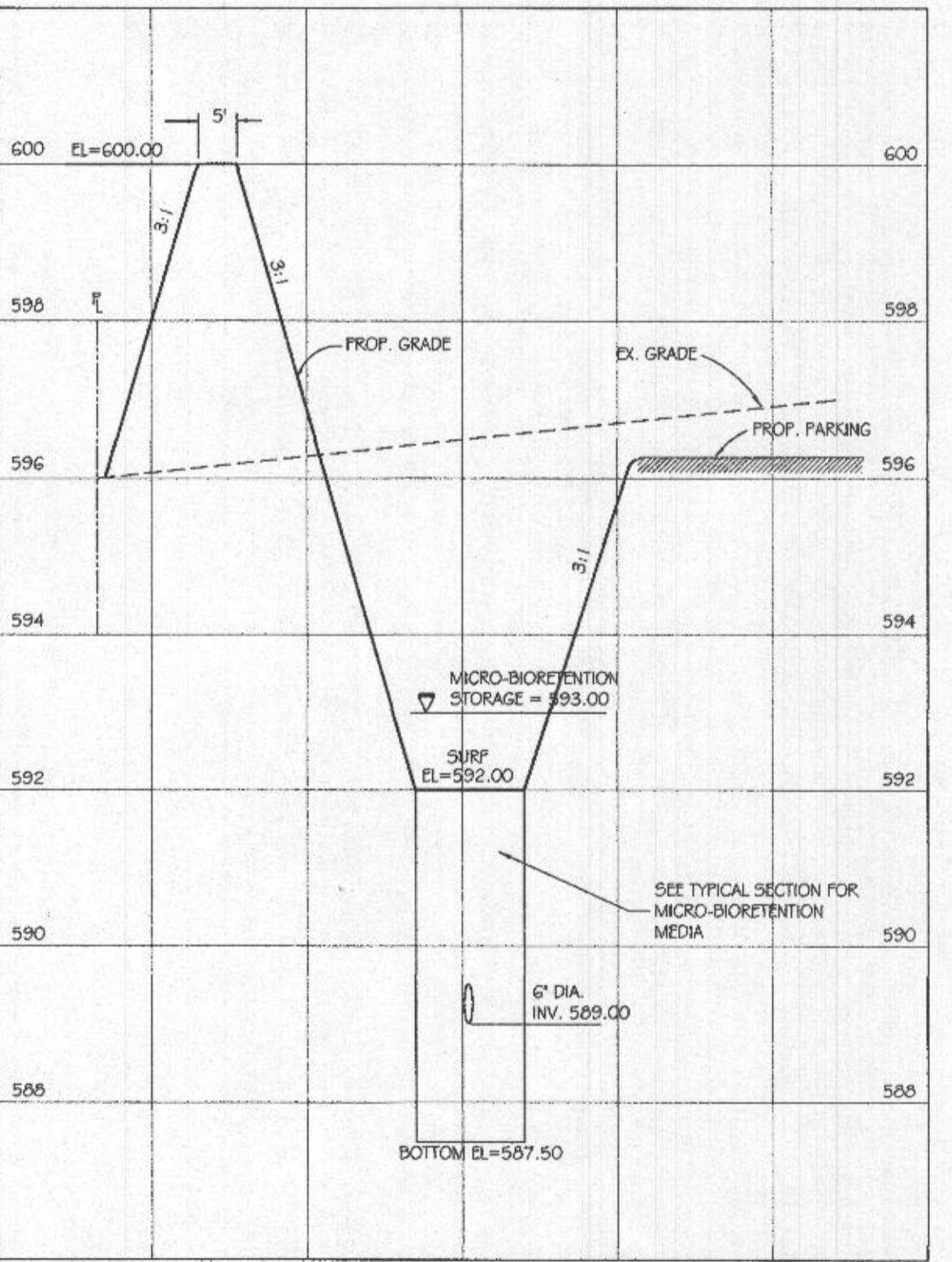
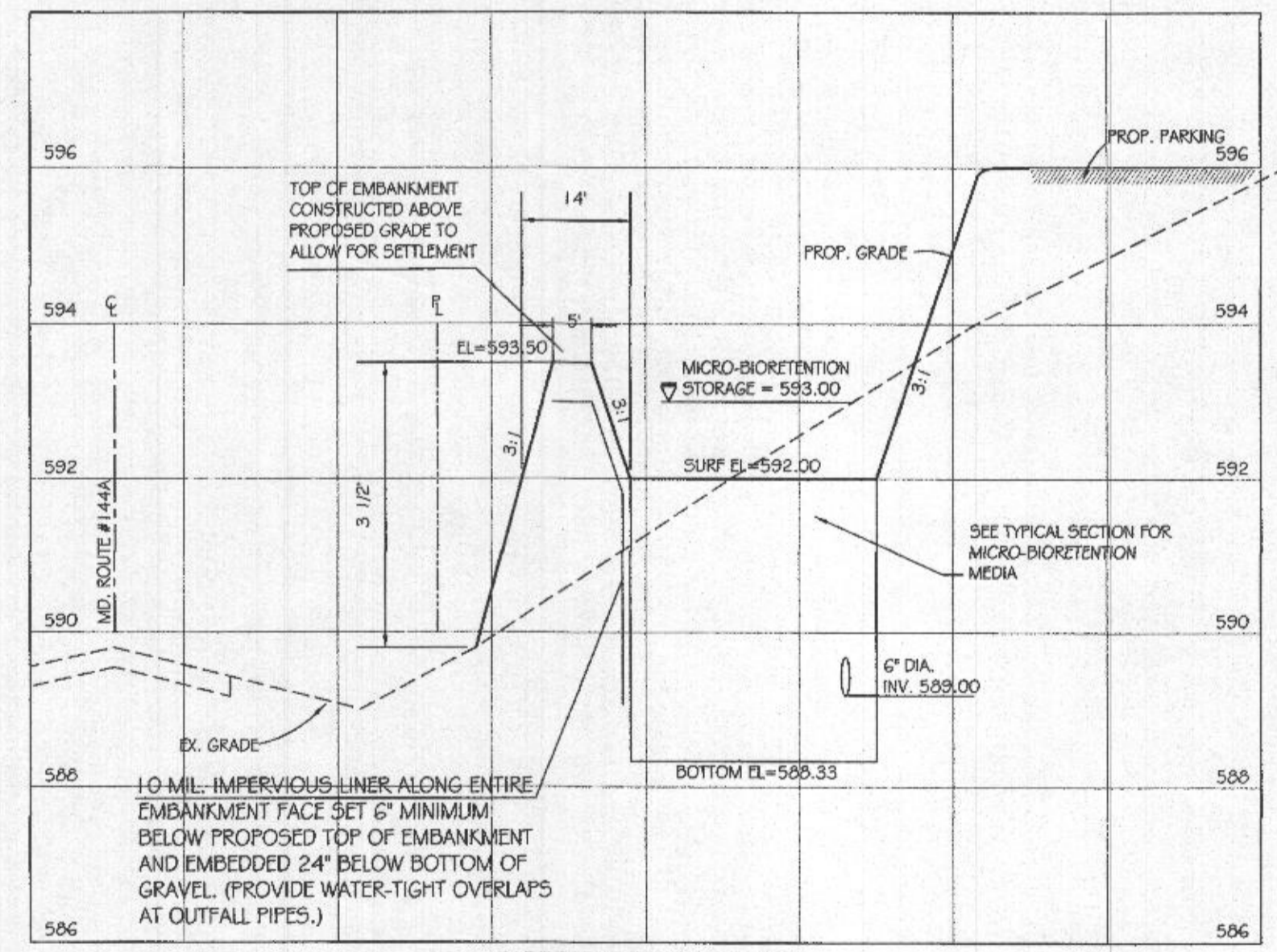


NOTES:
RIP-RAP PROTECTION FROM ENDWALL EW-1 TO MEET EXISTING SWALE WEST OF SITE ENTRANCE.
FOR ADDITIONAL INFORMATION & DETAILS, SEE SEDIMENT CONTROL DETAIL D-4-1-B.

FOREBAY GABION WEIR NOTES

- GABIONS SHALL BE MANUFACTURED BY MACCAFERRI GABIONS INC. OR APPROVED EQUAL. THE INSTALLATION SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS.
- THE GABION BASKETS SHALL BE PVC COATED AND FILLED WITH CLEAN 4" - 7" STONE. THE GABION STONE SHALL BE CAREFULLY PLACED TO CREATE TIGHT, INTERLOCKING AGGREGATE WITH MINIMAL VOIDS.
- TWO SHEETS OF IMPERVIOUS GEOTEXTILE OR 20 MIL VINYLPLASTIC SHEETING SHALL BE PLACED ON THE BURIED UPSTREAM (FOREBAY SIDE) FACE OF THE BASKETS. USE 2 FT OVERLAP.
- GABIONS SHALL BE PLACED ON GEOTEXTILE FABRIC (MIRAFI 600X OR APPROVED EQUAL) AT ALL SOIL/GABION INTERFACES.
- GABIONS SHALL BE CAREFULLY PLACED WITH NO DAMAGED WIRE. EARTH FOUNDATION SHALL BE FIRM. SOIL AROUND GABIONS SHALL BE WELL-COMPACTED.
- GABIONS SHALL BE FASTENED TOGETHER WITH MANUFACTURER-SPECIFIED WIRING.
- GABIONS TO BE INSTALLED ACROSS FOREBAY AREA WITH 1/8" IMBEDMENT INTO ADJACENT FACILITY SIDE SLOPES. GABION BASKETS TO BE 6' X 3' X 1.5' DEEP. THEY SHALL BE PLACED IN LINE AND LEVEL GRADE AND IMBEDDED 6".
- THE CONTRACTOR SHALL WELL-COMPACT THE EMBANKMENT SOIL AT THE BURIED GABION ENDS. THE GABION FOUNDATION SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.



STRUCTURE NO.	TYPE	STD.	TOP ELEV.	INVERT IN ELEV.	INVERT OUT ELEV.	REMARKS
EW-1	END WALL	MD 354.01	589.85	-	587.60	18" RCP
EW-2	END WALL	MD 354.01	590.23	587.98	-	18" RCP
ES-1	END SECTION	MD-	-	-	589.87	15" RCP
ES-2	END SECTION	MD-	-	590.15	-	15" RCP
I-1	CURB OPENING	MD 640.02	-	594.10	592.00	-
I-2	CURB OPENING	MD 640.02	-	594.40	592.00	-
I-3	WR INLET	HOWARD CO. D-4.37	594.05	588.87	588.87	BOTTOM = 588.37
I-4	WR INLET	HOWARD CO. D-4.37	593.62	-	590.11	BOTTOM = 589.61
I-5	WR INLET	HOWARD CO. D-4.37	592.37	588.87	588.87	BOTTOM = 588.37
I-6	WR INLET	HOWARD CO. D-4.37	593.00	-	589.49	BOTTOM = 588.99
SWM-1	DOME GRATE	NYLOPLAST R-2	592.75	589.00	589.00	6" DIAMETER
SWM-2	DOME GRATE	NYLOPLAST R-2	592.75	589.00	589.00	6" DIAMETER
SWM-3	DOME GRATE	NYLOPLAST R-2	592.75	589.00	589.00	6" DIAMETER

SIZE	TYPE	CLASS	LENGTH	REMARKS
6"	SOLID PVC	-	38'	SWM RISERS & OUTLET
6"	PERF. PVC	-	476'	SWM UNDER- AND OVERDRAINS
12"	HDPE	-	181'	-
15"	HDPE	-	121'	-
15"	RCP	III	28'	-
18"	RCP	III	76'	-

PROFESSIONAL CERTIFICATION

W. J. [Signature] 05/21/18

APPROVED
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

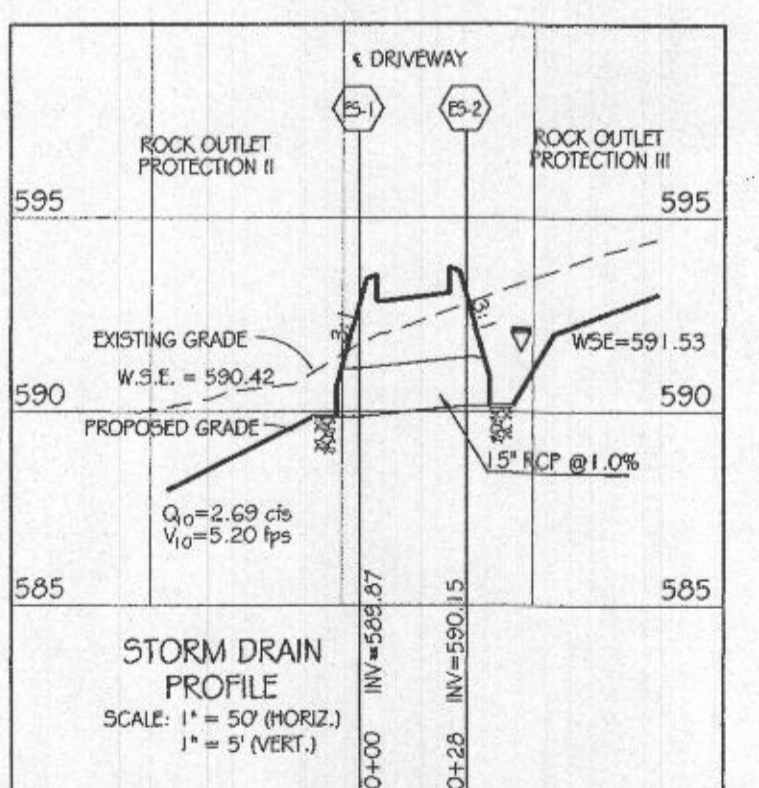
Johar R. Robertson 5/29/18
DA

APPROVED
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Natalia Zupka 7-12-18
DIRECTOR DATE

Keith Sedore 7-11-18
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Chad [Signature] 6-12-19
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



CALL "MISS UTILITY" AT
1-800-257-7777
48 HOURS BEFORE START OF CONSTRUCTION

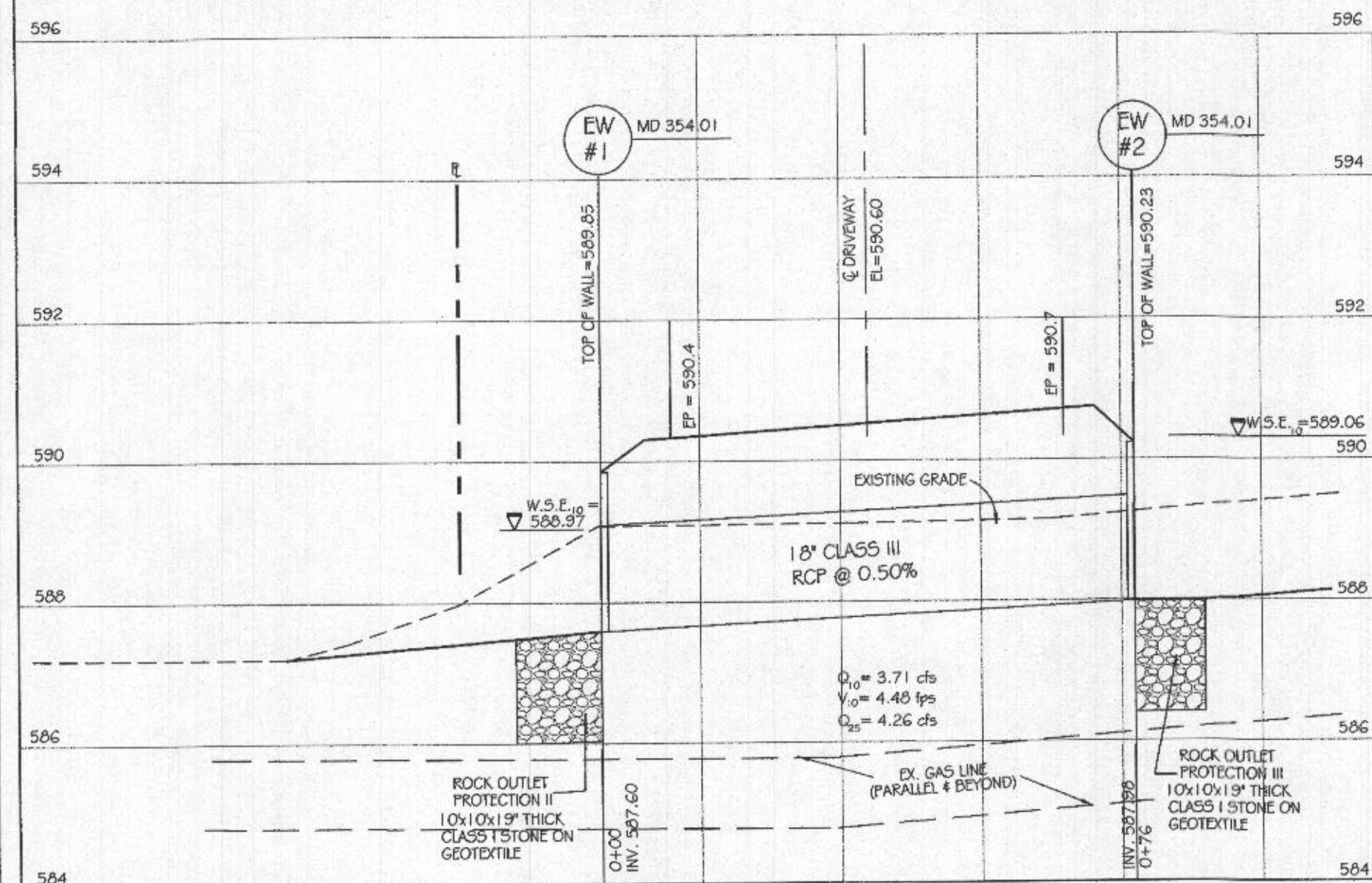
STORMWATER MANAGEMENT NOTES AND DETAILS
LOT 3, LOWER TRAIL
LIBSON VOLUNTEER FIRE CO., INC.

TAX MAP: 7
GRID NO: 11
PARCEL NO: 488

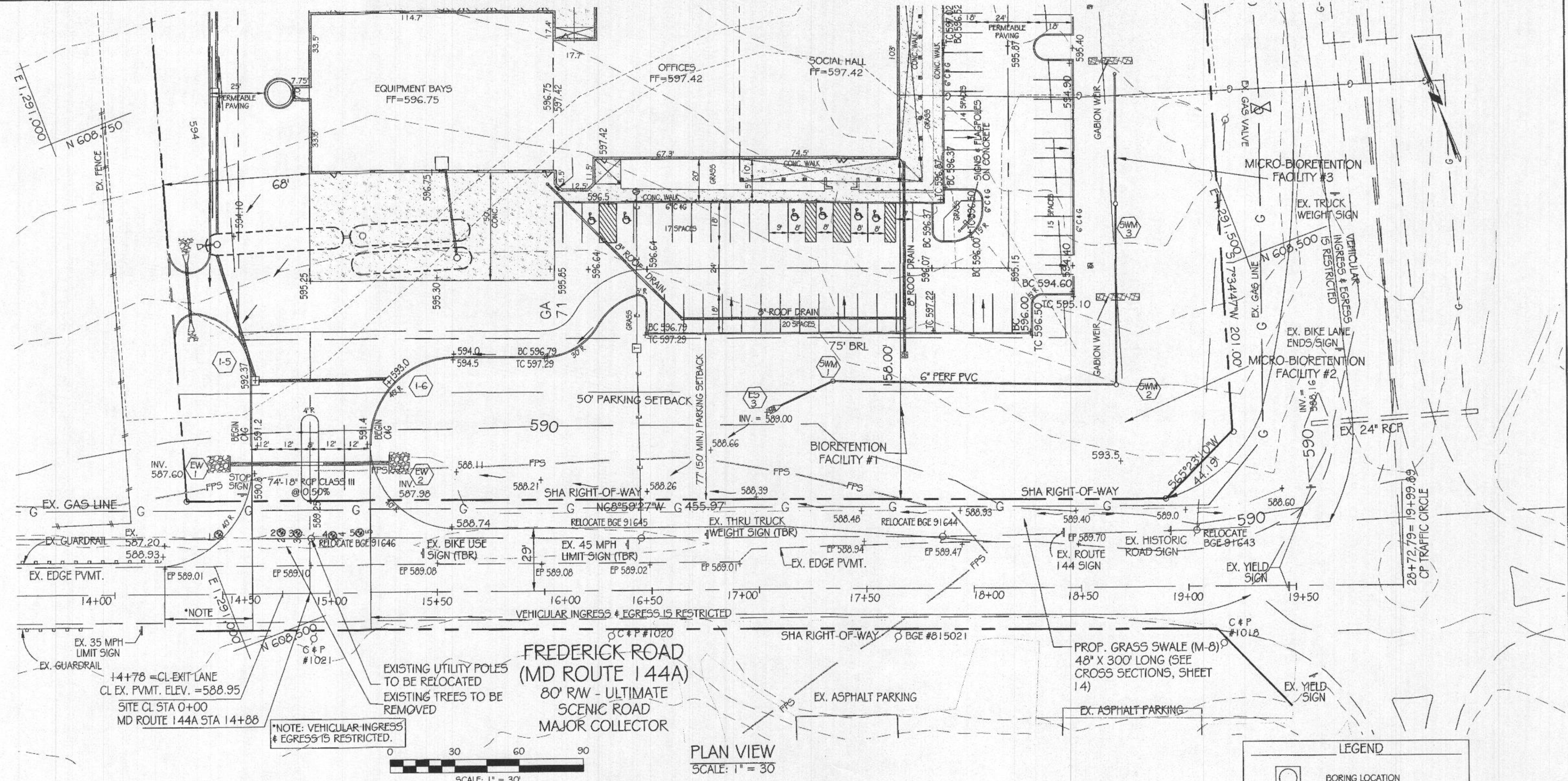
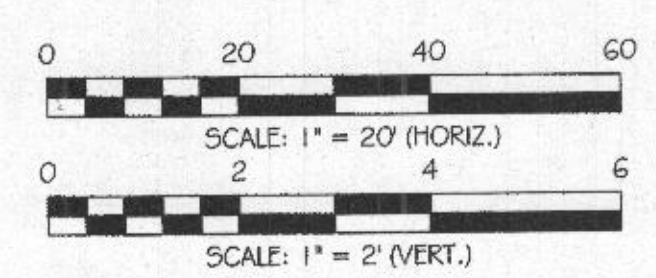
ELECTION DISTRICT: No. 4
HOWARD COUNTY, MARYLAND
EX. ZONING: RC-DEO

SCALE: AS SHOWN
DATE: JANUARY, 2017
SHEET 7 OF 15

VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 548-2751
Fax (301) 831-5603 ©Copyright, Latest Date Shown



PRIVATE CULVERT PROFILE @ SHA ENTRANCE (ON PRIVATE PROPERTY)
SCALE: 1" = 20' (HORIZ.)
1" = 2' (VERT.)



FREDERICK ROAD (MD ROUTE 144)
80' RW - ULTIMATE SCENIC ROAD MAJOR COLLECTOR

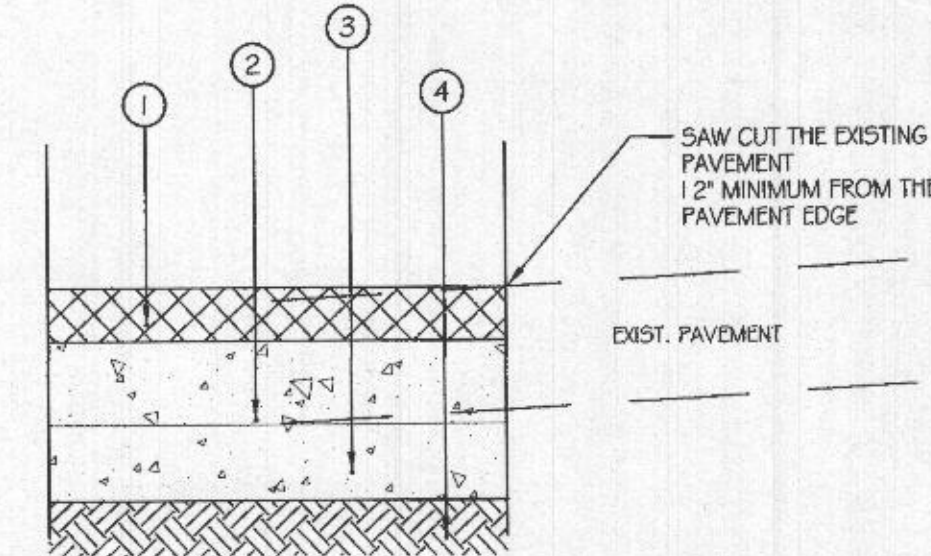
PLAN VIEW
SCALE: 1" = 30'

SHA MITIGATION WAIVED. NO MITIGATION IS REQUESTED BY SHA FOR THE REMOVAL OF TREES NOTED.

SHA TREE REMOVAL SCHEDULE				
KEY	BOTANICAL NAME COMMON NAME	SIZE	NOTES	CONDITION
1	BLACK LOCUST <i>Robinia Pseudoacacia</i>	12" dbh	T.B.R.	Poor
2	BLACK CHERRY <i>Prunus serotina</i>	16" dbh	T.B.R.	Poor
3	BOX ELDER <i>Acer negundo</i>	12" dbh	T.B.R.	Fair
4	BOX ELDER <i>Acer negundo</i>	14" dbh	T.B.R.	Dead
5	BLACK CHERRY <i>Prunus serotina</i>	14" dbh	T.B.R.	Poor

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

- A copy of the RTP or FCP shall be submitted to the SHA Office of Environmental Design before work is performed, and a copy of the RTP or FCP shall be reproduced in the plans or be in possession of the applicant at the project site when the permitted work is performed.
- A Maryland Licensed Tree Expert shall perform the specified tree operations in conformance with the SHA Standard Specifications and ANSI A 300 Standards for Tree Care Operations.



- NOTES:
- PROVIDE THE FOLLOWING PAVEMENT SECTION:
 - 2" ASPHALT SUPERPAVE MIX PG 645-22, LEVEL 2
 - 7" ASPHALT SUPERPAVE MIX PG 645-22, LEVEL 2
 - 6" GRADED AGGREGATE BASE
 - APPROVED COMPACTED SUBGRADE
 - THE ASPHALT PAVING SECTION SHALL BE A STANDARD SHA APPROVED FOR MEDIUM DUTY. FINAL DESIGNS MAY BE ADJUSTED BASED ON A PROFESSIONAL GEOTECHNICAL ENGINEERS REPORT AND RECOMMENDATIONS.
 - THE EXISTING PAVEMENT MARKINGS SHALL BE REMOVED USING HYDRO-BLASTING TECHNIQUES TO AVOID DAMAGING THE EXISTING PAVEMENT.

SHA PAVEMENT SECTION DETAIL
N.T.S.

NOTE: ANY FULL DEPTH PAVEMENT AREAS LESS THAN 4' WIDE MUST BE CONSTRUCTED WITH A MODIFIED MIX 6 CONCRETE TO ASSURE PROPER COMPACTION.

LEGEND	
	BORING LOCATION
	TO BE REMOVED
	EXISTING UTILITY POLE
	EXISTING SIGN
	EXISTING GUARDRAIL
	EXISTING EDGE PAVEMENT
	EXISTING FLOODPLAIN
	PROP. FLOW LINE
	PROP. RIP-RAP
	PROP. DRAINAGE PIPE
	PROP. SPOT SHOT
	PROP. PAVEMENT

APPROVED
HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Natalia Zupka 7-12-18
DIRECTOR DATE

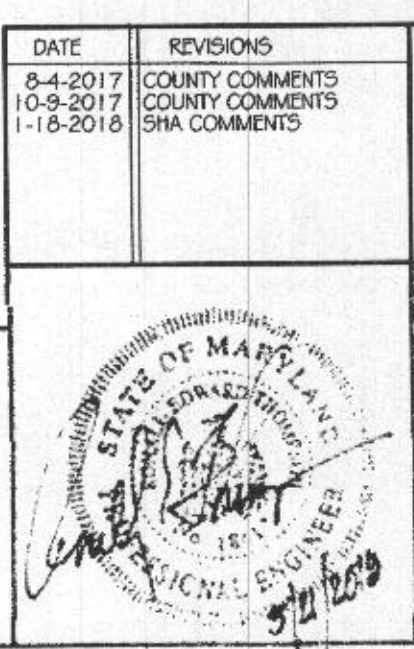
Vent Seelove 7-11-18
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Chad Johnson 6-12-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

OWNER / DEVELOPER:
LISBON VOL. FIRE COMPANY
c/o CURTIS LOWREY
P.O. BOX 40,
LISBON, MD 21765
443-472-7765

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. 18417, EXPIRATION DATE 09/30/22

SIGNATURE: *Robert Thompson* DATE: 5/12/2018
ROBERT THOMPSON, P.E.



MDOT SHA TRACKING NUMBER 11APH0014XX

STATE HIGHWAY ENTRANCE PLAN AND DETAILS
LOT 3, LOWER TRAIL
LISBON VOLUNTEER FIRE CO., INC.

DATE: 8-4-2017 10-9-2017 1-16-2018	REVISIONS: COUNTY COMMENTS COUNTY COMMENTS SHA COMMENTS
--	--

TAX MAP: 7
GRID NO: 11
PARCEL NO: 488

ELECTION DISTRICT: No. 4
HOWARD COUNTY, MARYLAND
EX. ZONING: RC-DEO

SCALE: AS SHOWN
DATE: JANUARY, 2017
SHEET 8 OF 15

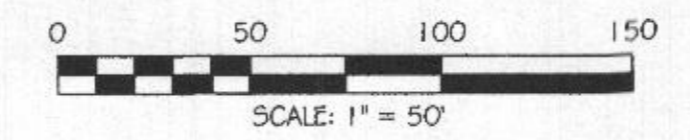
VANMAR ASSOCIATES, INC.
Engineers Surveyors Planners
310 South Main Street Mount Airy, Maryland 21771
(301) 829-2890 (301) 831-5015 (410) 549-2751
Fax (301) 831-5603 ©Copyright, Latest Date Shown



DRAINAGE AREA TABULATION						
STUDY POINT	AREA	AREA ID	"C" FACTOR	ZONING	% IMPERVIOUS	% SOIL GROUP
A	0.39 AC.	DITCH N.E. COR. OF PARKING LOT	0.24	RC-DEO	0%	100% C
B	1.16 AC.	DITCH N.W. COR. OF PARKING LOT	0.19	RC-DEO	0%	100% C
C	2.34 AC.	DITCH S.W. COR. OF PARKING LOT	0.19	RC-DEO	0%	100% C
D	0.51 AC.	SWM #2	N/A	RC-DEO	75%	100% B
E	0.19 AC.	EQUIPMENT BUILDING	N/A	RC-DEO	100%	100% B
F	0.36 AC.	OFFICE / SOCIAL HALL BUILDING	N/A	RC-DEO	100%	100% B
G	0.45 AC.	SWM #3	N/A	RC-DEO	51%	100% B
H	0.21 AC.	SWALE HEADED EAST ALONG MD. RTE. #144	0.30	RC-DEO	20%	100% B
I	1.18 AC.	PROP. CULVERT @ DRIVEWAY ENTRANCE	0.37	RC-DEO	30%	100% B
J	0.20 AC.	ACROSS DRIVEWAY ENTRANCE	0.56	RC-DEO	100%	100% B
K	0.71 AC.	SWM #1	N/A	RC-DEO	77%	100% B
L	1.82 AC.	CISTERN	N/A	RC-DEO	88%	100% B

SOIL LEGEND		
MAP SYMBOL	MAPPING UNIT	HYDROLOGIC SOIL GROUP
GgA	GLENELG LOAM, 0% - 3% SLOPES	B
GgB	GLENELG LOAM, 3% - 8% SLOPES	C
GmA	GLENVILLE SILT LOAM, 0% - 3% SLOPES	C
MaC	MANOR LOAM, 8% - 15% SLOPES	B

Soils Map No. 2



APPROVED
 HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Walter J. Joffe 7-12-18
 DIRECTOR DATE

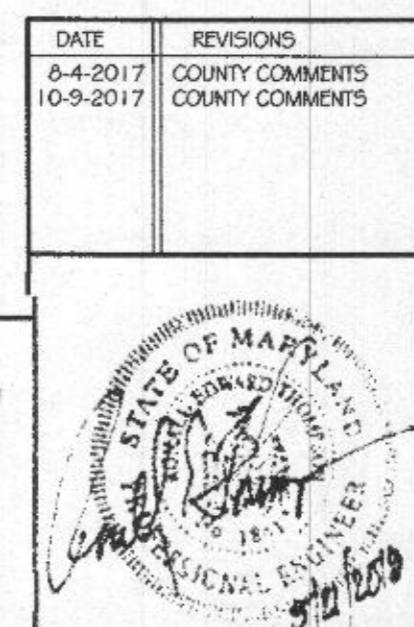
Walter J. Joffe 7-11-18
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Chad Johnson 6-12-19
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

OWNER / DEVELOPER:
 LISBON VOL. FIRE COMPANY
 c/o CURTIS LOWREY
 P.O. BOX 40,
 LISBON, MD 21765
 443-472-7765

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. 18417, EXPIRATION DATE 03/31/2025

SIGNATURE: *Ronald F. Thomason* DATE: 5/21/2018
 RONALD F. THOMASON, P.E.



DRAINAGE AREA MAP
 LOT 3, LOWER TRAIL
 LISBON VOLUNTEER FIRE CO., INC.

TAX MAP: 7
 GRID NO: 11
 PARCEL NO: 4&8

ELECTION DISTRICT: No. 4
 HOWARD COUNTY, MARYLAND
 EX. ZONING: RC-DEO

SCALE: 1" = 50'
 DATE: JANUARY, 2017
 SHEET 9 OF 15

VANMAR ASSOCIATES, INC.
 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 829-2890 (301) 831-5015 (410) 549-2751
 Fax (301) 831-5603 ©Copyright, Latest Date Shown 5DP-17-035

LANDSCAPE NOTES

- Plants shall conform to current American Standards for Nursery Stock by American Association of Nurserymen (AAN), particularly with regards to site, growth, and size of ball and density of branch structure. Contractor to ensure conformance to national and local building codes and ordinances.
- All plants (bags or containers) shall be properly identified by weatherproof labels securely attached hereto before delivery to the project site. Labels shall identify plants by name, species, and size. Labels shall not be removed until the final inspection by the owners representative.
- Any material and/or work may be rejected by the owners representative if it does not meet the requirements of the specifications. The contractor shall remove all rejected materials from the site.
- The contractor shall furnish all plants in quantities and sizes to complete the work as specified in plant schedule. The landscape contractor shall be responsible to verify all plant quantities on the plans prior to commencement of work. Quantities in the plant schedule are for the contractors convenience only and do not constitute the final count.
- Substitutions in plant species or size shall not be permitted except with the written approval of the owners representative.
- Plants shall be located as shown on the drawings and by scaling or as designated in the field by the owners representative. Tree locations to be field adjusted as required to maintain 10' minimum clearance from all utilities, street lights, and driveways. All locations are to be approved by the owners representative before excavation. The contractor shall note that in the case of a discrepancy between the scaled and figured dimensions shown on these plans, the figured dimension shall govern.
- The location of existing utilities shown hereon are approximate only. Contractor shall excavate to verify the existence, location, and depth of any utilities (constructed and existing) and shall notify the engineer of any discrepancies prior to the beginning of all work, excavation, grading, landscaping, etc.
- Contractor shall locate and mark all underground utility lines and irrigation systems prior to excavating plant beds or pits. All utility easement areas where no planting shall take place shall also be marked on the site, prior to locating and digging the tree pits. If utility lines are encountered in excavation of tree pits, other locations for the trees shall be selected by the owners representative. Such changes shall be made by the contractor without additional compensation. No changes of location shall be made without the approval of the owners representative. Any utility (whether shown or not) damaged due to construction shall be repaired immediately. The contractor shall be responsible for removing or replacing any existing fences, driveways, etc., damaged or removed by the contractor during construction. All utility disturbed areas shall be returned to their original condition.
- All equipment and tools shall be placed so as not to interfere or hinder pedestrian and vehicular traffic flow.
- During planting operations, excess soil and waste materials shall be promptly and frequently removed from the site.
- All tree pits are to be excavated to a minimum depth to allow the tree root ball to be a minimum of 4" higher than finish grade. The tree root ball is to rest on undisturbed soil, or a compacted bed must be prepared for the tree root ball to rest on which will not subside causing the tree to sink below finish grade. All tree pits are to be a minimum of 12" larger on every side of the tree root ball.
- The topsoil to be used to fill the tree pits is to be plant specific. The topsoil for trees shall consist of a maximum of 2/3 existing topsoil from the site, which is cleaned and free of clay, a minimum of 1/3 organic material. These materials are to be mixed prior to backfilling when planting.
- The contractor is responsible to ensure that all tree pits are well drained. The landscape contractor, without cost to the owner, will replace all plant material which is affected by poor drainage.
- All lawn areas are to be seeded with grass seed appropriate for the sunlight conditions which exist on the site.
- All lawn areas are to be seeded to a depth of 1/2" and all foreign material removed which will inhibit the healthy growth of the lawn. All old grass and grass roots are to be removed from the site. New topsoil of a minimum 4" is to be placed over the areas to be seeded. The grass areas are to be fine graded to ensure that no undulations occur on the lawn. The lawn is to be graded in such a way as to appear perfectly well drained and even. The lawn topsoil is to be rolled and lightly irrigated prior to seeding. The seed is not to be laid on frozen or soaked soil.
- Existing trees are to be protected during the preparation of the lawn areas. The roots of the trees are to be undisturbed during the clearing of the topsoil.
- All plants are to be handled with the best care and attention to ensure that the plants are not bruised, broken, torn, or damaged in any way which will affect the plants general appearance and well being.
- All trees are to be planted with the accepted standards of the American Association of Nurserymen. The trees are to be properly watered and backfilled during planting. All care must be taken to ensure that the trees are upright, as a tree's best side is exposed to the point of greatest visibility.
- The trees must be staked in accordance with acceptable nursery practice to ensure that they are secure in the ground and will grow straight and uniform. The trees are to be wrapped if the contractor deems it necessary to protect the trees from sun scald or insect attack.
- Contractor is to provide a 1-year guarantee for all plant material and other work done on site.
- Quantities as shown on the plan shall govern over plant list quantities. Contractor to verify plant list totals with quantities shown on plan.
- Do not plant within 20' of a property line abutting and agricultural use.
- Plant material source: Within 100 mile radius of Maryland if possible.
- Vanlar Associates, Inc. is not responsible for the contractor's utilization of man, materials, equipment, or safety measures in performance of any work for this construction. The contractor assumes all responsibility for performing the work correctly and in conformance with all code requirements.
- Should the contractor discover discrepancies between 2nd plans and field conditions, the work shall be stopped immediately and the engineer notified immediately to resolve the situation. Should the contractor make field corrections or adjustments without notifying the engineer, then the contractor assumes all responsibility for these changes.
- It is the intent of these plans and specifications to provide 100% completed work and this shall be the project scope. It shall be distinctly understood that failure to notify the engineer of discrepancies found on these plans and specifications, specifically and work which would naturally and/or normally be required to complete the project shall not relieve the contractor of his responsibility to perform such work.
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscape Manual.
- All the lines of installation, all shrubs and other plantings herewith listed and approved for this site, shall be of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from this approved Landscape Plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.
- The owner, tenant and/or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant material shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition and when necessary, repaired or replaced.
- The owner / developer is responsible for the planting of all plant material required to meet the standards established by the Howard County Landscape Manual.
- It has been determined that a landscape surety is not required because the volunteer fire station will serve as a public service to the community.
- All plant materials shall be in good condition and be obtained locally within a 100 mile radius of the subject site.

Lisbon Volunteer Fire Department Forest Conservation Worksheet 2.1
2/10/2016

Note: Use 0 for all negative numbers that result from the calculations

Net Tract Area

A. Total Tract Area A= 8.23
 B. Deductions (Critical Area, area restricted by local ordinance or program) B= 0.00
 C. Net Tract Area Net Tract Area = Total Tract Area - Deductions (B) C= 8.23

Land Use Category: Institutional D= 1.23

D. Afforestation Threshold (Net Tract Area) (15 %) D= 1.23
 E. Conservation Threshold (Net Tract Area) 20 % E= 1.66

Existing Forest Cover

F. Existing Forest Cover within the Net Tract Area F= 0.00
 G. Area of Forest Above Conservation Threshold
 If the Existing Forest Cover (F) is greater than the Conservation Threshold (E), then
 G = F - E. Otherwise G = 0. G= 0.00

Break-even Point

H. Break-even Point (Amount of forest that must be retained so that no mitigation is required)
 (1) If the Area of Forest Above the Conservation Threshold (G) is greater than 0, then
 H = (0.2 * the Area of Forest Above Conservation Threshold (G) + the Conservation Threshold (E); H= 0.00
 (2) If the Area of Forest Above the Conservation Threshold (G) is equal to 0, then
 H = Existing Forest Cover (F) H= 0.00

I. Forest Clearing Permitted Without Mitigation
 I = Existing Forest Cover (F) - Break-even Point (H) I= 0.00

Proposed Forest Clearing

J. Total Area of Forest to be Cleared J= 0.00
 K. Total Area of Forest to be Retained K= 0.00
 L. Existing Forest Cover (F) - Forest to be Cleared (J) L= 0.00

Planting Requirements

If the Total Area of Forest to be Retained (K) is at or above the Break-even Point (H), no planting is required and no further calculations are necessary (L=0, M=0, N=0, P=0);
 Otherwise, calculate the planting requirement(s) as follows:

L. Reforestation for Clearing Above the Conservation Threshold
 (1) If the Total Area of Forest to be Retained (K) is greater than the Conservation Threshold (E), then L = the Area of Forest to be Cleared (J) * 0.25; L= 0.00
 (2) If the Forest to be Retained (K) is less than or equal to the Conservation Threshold (E), then L = Area of Forest Above Conservation Threshold (G) * 0.25

M. Reforestation for Clearing Below the Conservation Threshold
 (1) If Existing Forest Cover (F) is greater than the Conservation Threshold (E) and the Forest to be Retained (K) is less than or equal to the Conservation Threshold (E), then M = 2.0 * (Conservation Threshold (E) - Forest to be Retained (K)) M= 0.00
 (2) If Existing Forest Cover (F) is less than or equal to the Conservation Threshold (E), then M = 2.0 * Forest to be Cleared (J) M= 0.00

N. Credit for Retention Above the Conservation Threshold
 If the Area of Forest to be Retained (K) is greater than the Conservation Threshold (E), then N = K - E N= 0.00

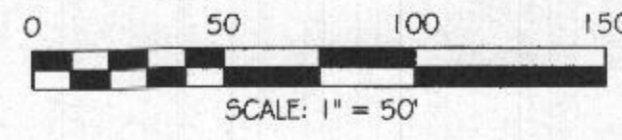
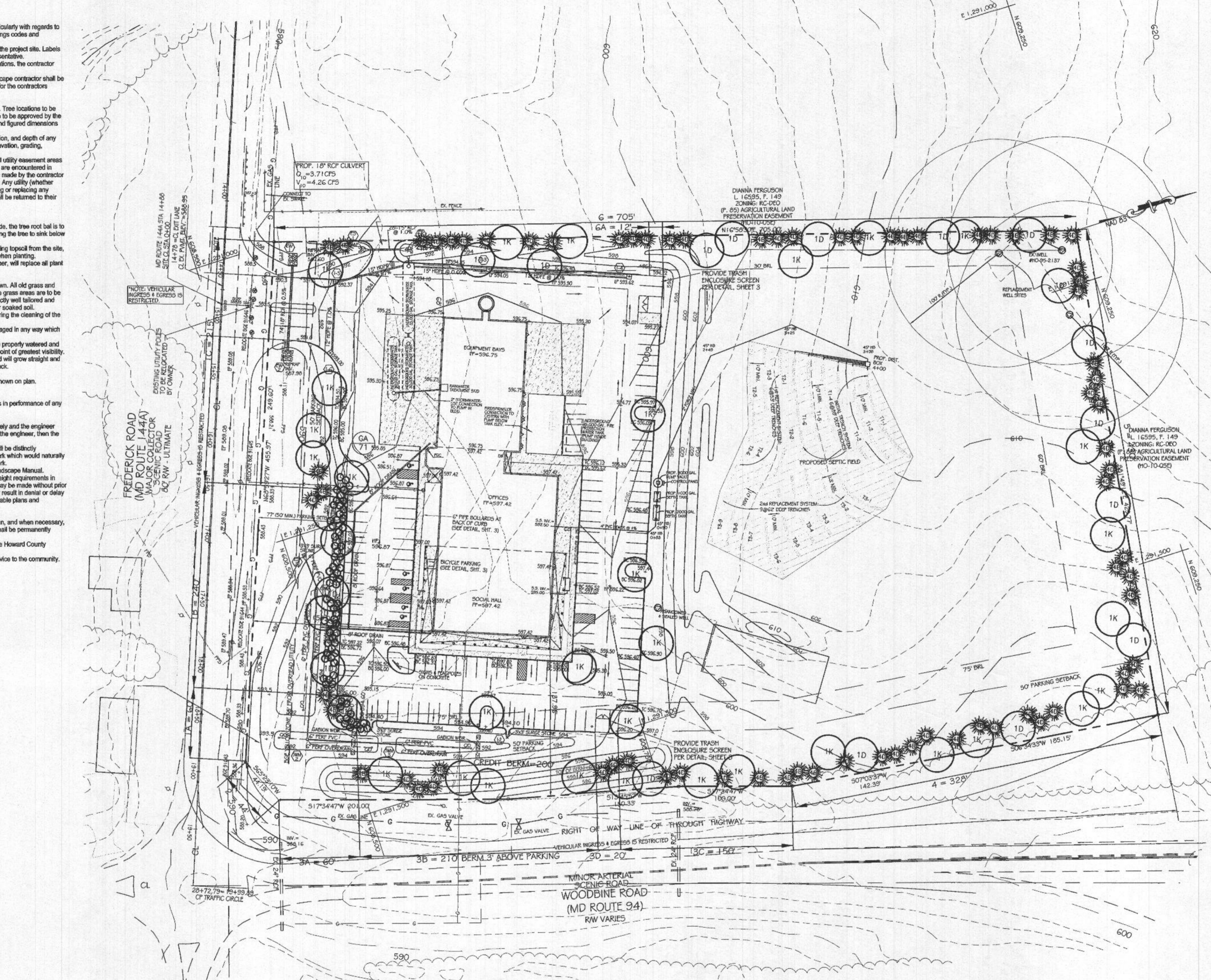
P. Total Reforestation Required P = L + M - N P= 0.00
 Q. Total Afforestation Required
 If Existing Forest Cover (F) is less than the Afforestation Threshold (D), then Q = Afforestation threshold (D) - Existing Forest Cover (F) Q= 1.23
 R. Total Planting Requirement R=P+Q R= 1.23

APPROVED
 HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Valerie J. ... 7-12-18
 DIRECTOR DATE

Ken ... 7-11-18
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

... 6-12-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



SCHEDULE B
PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	134
NUMBER OF TREES REQUIRED	7
NUMBER OF TREES PROVIDED (SHADE TREES)	7
OTHER TREES (2:1 SUBSTITUTION)	0
*LANDSCAPED ISLANDS REQUIRED	7
LANDSCAPED ISLANDS PROVIDED	8

PLANT LIST

SYMBOL	QUANTITY	BOTANICAL NAME COMMON NAME	SIZE	CONDITION	SPACING (SEE NOTES)
1K	33	AMERICAN SYCAMORE <i>Petaluma occidentalis</i>	2.5' cal.	B 4 B	AS SHOWN
1D	19	RED MAPLE <i>Acer rubrum</i>	2.5' cal.	B 4 B	AS SHOWN
4B	25	NORWAY SPRUCE <i>Picea abies (excelsa)</i>	6'-0" ht.	unseasoned	AS SHOWN
4D	51	WHITE PINE <i>Pinus strobus</i>	6'-0" ht.	unseasoned	AS SHOWN
GA	71	GLOSSY AERUA <i>Abies grandiflora</i>	24" ht.	2 gal. can	AS SHOWN

DEVELOPER/BUILDER CERTIFICATE

I WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE LANDSCAPE MANUAL. I WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATE OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXISTING ONE-YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

David A. Adams 05/21/18
 OWNER/DEVELOPER DATE

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 568, EXPIRATION DATE: 08/31/19.

SIGNED: *David A. Adams* DATE: 5/21/18
 DAVID A. ADAMS, R.L.A.

OWNER / DEVELOPER:
 LISBON VOL. FIRE COMPANY
 c/o CURTIS LOWREY
 P.O. BOX 40,
 LISBON, MD 21765
 443-472-7765

DATE: 05/09/17
 5-4-2017
 0-9-2017

REVISIONS:
 COMMENTS
 COUNTY COMMENTS

FOREST CONSERVATION & LANDSCAPING PLAN, NOTES AND DETAILS
 LOT 3, LOWER TRAIL
LISBON VOLUNTEER FIRE CO., INC.

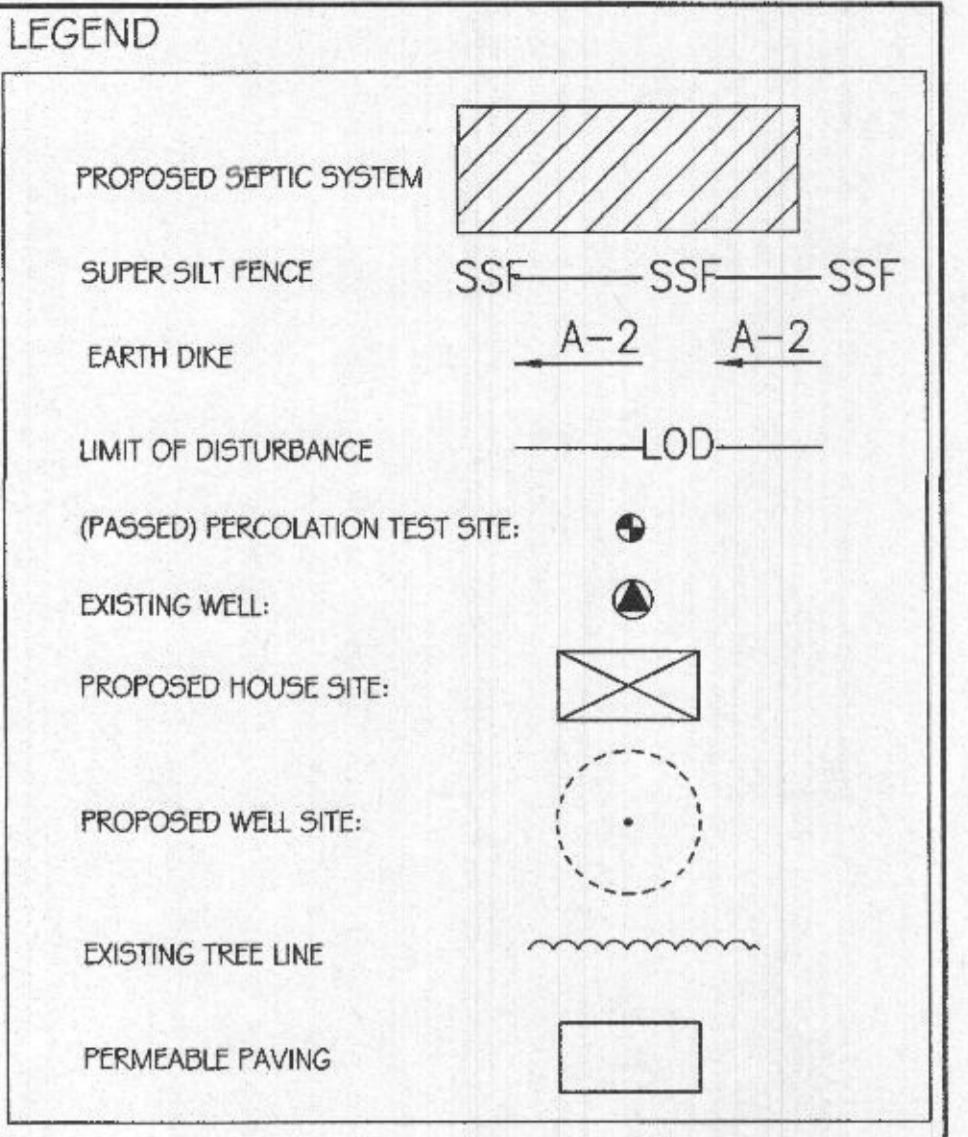
TAX MAP: 7
 GRID NO: 11
 PARCEL NO: 488

ELECTION DISTRICT: No. 4
 HOWARD COUNTY, MARYLAND
 EX. ZONING: RC-DEO

SCALE: 1" = 50'
 DATE: JANUARY, 2017
 SHEET 10 OF 15



VANMAR ASSOCIATES, INC.
 Engineers Surveyors Planners
 310 South Main Street Mount Airy, Maryland 21771
 (301) 828-2890 (301) 831-5015 (410) 548-2171
 Fax (301) 831-5603 ©Copyright, Latest Date Shown SDF-17-035



SHA MITIGATION WAIVED. NO MITIGATION IS REQUESTED BY SHA FOR THE REMOVAL OF TREES NOTED.

SHA TREE REMOVAL SCHEDULE

KEY	BOTANICAL NAME COMMON NAME	SIZE	NOTES	CONDITION
1	BLACK LOCUST <i>Robinia Pseudoacacia</i>	12" dbh	T.B.R.	Poor
2	BLACK CHERRY <i>Prunus serotina</i>	16" dbh	T.B.R.	Poor
3	BOX ELDER <i>Acer negundo</i>	12" dbh	T.B.R.	Fair
4	BOX ELDER <i>Acer negundo</i>	14" dbh	T.B.R.	Dead
5	BLACK CHERRY <i>Prunus serotina</i>	14" dbh	T.B.R.	Poor

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

1. A copy of the RTP or FCP shall be submitted to the SHA Office of Environmental Design before work is performed, and a copy of the RTP or FCP shall be reproduced in the plans or be in possession of the applicant at the project site when the permitted work is performed.

2. A Maryland Licensed Tree Expert shall perform the specified tree operations in conformance with the SHA Standard Specifications and ANSI A300 Standards for Tree Care Operations.

