

GENERAL NOTES

- SUBJECT PROPERTY ZONED RC-DEO PER 10-06-2013 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY:
 PARCEL 73: 121.84 AC±
 PARCEL 146: 82.22 AC±
 CONDITIONAL USE (PROJECT) AREA: 4.55 AC±
 DEED REFERENCE:
 PARCEL 73: LIBER 18220, FOLIO 230
 PARCEL 146: LIBER 3999, FOLIO 580
- PREVIOUS HOWARD COUNTY FILE NUMBERS: F-09-11, F-93-033, BA CASE NUMBER 15-026C, ECP-19-039, SDP-20-049(F).
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 STATE HIGHWAY ADMINISTRATION 410.631.5533
 BGE (CONTRACTOR SERVICES) 410.850.4520
 BGE (UNDERGROUND DAMAGE CONTROL) 410.797.9068
 MISS UTILITY 800.257.7777
 COLONIAL PIPELINE COMPANY 410.795.1390
 HOWARD COUNTY DEPT. OF PUBLIC WORKS, BUREAU OF UTILITIES 410.313.4900
 HOWARD COUNTY HEALTH DEPARTMENT 410.313.2640
 AT&T 800.252.1133
 VERIZON 800.743.0033/410.224.9210
- THE SITE IS LOCATED APPROXIMATELY 1.430' AWAY FROM MARYLAND ROUTE 144, A SCIENCE ROAD, AND AS SUCH, SCIENCE ROAD REGULATIONS DO NOT APPLY TO THE PROJECT.
- WATER AND SEWER ARE PRIVATE AND PROVIDED ONSITE.
- THE BOUNDARY SHOWN FOR PARCEL 146 WAS FIELD RUN BY BILL, ADCOCK & ASSOCIATES, LLC ON OR ABOUT MAY 2006. THE BOUNDARY SHOWN FOR PARCEL 73 IS BASED ON TAX RECORD INFORMATION.
- THE EXISTING TOPOGRAPHY SHOWN TO THE WEST OF THE CONDITIONAL USE AREA WAS FIELD RUN BY ADCOCK & ASSOCIATES, LLC ON 12/12/2019. THE EXISTING TOPOGRAPHY ALONG FREDERICK ROAD WAS FIELD RUN BY ADCOCK & ASSOCIATES ON 8/17/2018. THE CONTOURS ARE SHOWN AT TWO-FOOT CONTOUR INTERVALS. ALL OTHER EXISTING TOPOGRAPHY IS BASED OFF OF AERIAL TOPOGRAPHY FLOWN IN 2011.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAYS, PAVING OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY IN ADDITION TO MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- THE SOILS SHOWN HAVE BEEN TAKEN FROM THE US DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE, WEB SOIL SURVEY WEBSITE, HOWARD COUNTY SOILS MAP GRID 10, SUB-GRID 12.
- TO THE BEST OF OUR KNOWLEDGE, NO CEMETERIES LOCATED ONSITE.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORDED DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER, PAVING TO BE HOWARD COUNTY STANDARD P-2 OR P-3 PAVING SECTION (SEE DETAILS ON THIS SHEET), GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOIL TEST, PRIOR TO CONSTRUCTION.
- ESTIMATES OF MATERIAL QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT 158A AND 158B WERE USED FOR THIS PROJECT.
- ALL PROPOSED SPOT ELEVATIONS ALONG CURB AND GUTTER ARE SHOWN TO THE FLOW LINE UNLESS OTHERWISE NOTED.
- NO GRADING, REMOVAL OF VEGETATION, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS WAIVERS HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
- ENVIRONMENTAL FEATURES INCLUDING FLOODPLAINS, WETLANDS, STREAMS AND THEIR BUFFER DO EXIST ON THE PROPERTY BUT NONE EXIST WITHIN THE CONDITIONAL USE AREA.
- THERE ARE NO CEMETERIES WITHIN THE CONDITIONAL USE AREA.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORDED DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING REQUIREMENTS:
 1) WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE);
 2) SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATINGS (1-1/2" MINIMUM);
 3) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADII;
 4) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING);
 5) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
- MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.
- FLAG AND PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND THE ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
- THE AREA CURRENTLY USED FOR FIREWOOD PROCESSING IS TO BE RELOCATED TO THE CONDITIONAL USE AREA AND RETURNED TO ITS NATURAL STATE.
- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AND THE FOREST CONSERVATION MANUAL BY THE OFF-SITE AFForestation/REFORESTATION OF 0.80 ACRES OF FOREST. FINANCIAL SURETY WILL BE POSTED AS PART OF THE DISCLOSURE AGREEMENT AT \$0.50 PER SQUARE FOOT. (24,858 SF X \$0.50, OR \$12,429.00).
- THIS PROJECT IS SUBJECT TO A WAIVER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME III, SECTION 2.5.8.9, WHICH REQUIRES INTERSECTION SIGHT DISTANCE PROVIDED FOR MAJOR COLLECTORS AND HIGHER. THIS WAIVER WAS APPROVED ON JUNE 26, 2020, BASED ON THE FACT THAT:
 1) MD 144 IS A STATE ROAD AND SHA HAS NO OBJECTION FOR THE WAIVER;
 2) STOP SIGHT DISTANCE HAS BEEN PROVIDED FOR THE SITE ENTRANCE.
- THIS PLAN IS SUBJECT TO A WAIVER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME FOUR, DETAIL R-6-10, WHICH REQUIRES 24FT PAVEMENT WIDTH FOR COMMERCIAL USE DRIVE ISLES. THIS WAIVER WAS APPROVED ON MARCH 31, 2021, BASED ON THE FACT THAT:
 1) THE PROPOSED 16 FEET WIDE USE-IN-COMMON DRIVEWAY AND EXISTING DRIVEWAY ON SDP-20-049 MATCHES WHAT THE CONDITIONAL USE REQUIRES;
 2) THERE ARE SEVERAL NATURAL PULL-OFF AREAS TO ALLOW TWO WAY TRAFFIC TO SAFELY PASS;
 3) THE FACILITY IS PRIVATELY OWNED AND MAINTAINED.
- ON OCTOBER 27, 2016, THE HOWARD COUNTY BOARD OF APPEALS HEARD THE PETITION OF STREAKER FIREWOOD, LLC FOR A BULK FIREWOOD PROCESSING CONDITIONAL USE IN AN RC-DEO (RURAL CONSERVATION-DENSITY EXCHANGE OPTION OVERLAY) ZONING DISTRICT. ON FEBRUARY 22, 2018, IT WAS HEREBY GRANTED, SUBJECT TO THE FOLLOWING CONDITIONS:
 1) THE CONDITIONAL USE SHALL APPLY ONLY TO THE BULK FIREWOOD PROCESSING CONDITIONAL USE AS DESCRIBED IN THE PETITION AND AS DEPICTED ON THE REVISED CONDITIONAL USE PLAN SUBMITTED TO THE BOARD ON OCTOBER 27, 2016 AS PETITIONER'S EXHIBIT #5;
 2) BULK FIREWOOD PROCESSING CONDITIONAL USE TRUCK TRAFFIC IS LIMITED TO THE HOURS OF 8 A.M. TO 6 P.M. MONDAY THROUGH FRIDAY AND TO THE HOURS OF 8 A.M. TO 1 P.M. ON SATURDAY;
 3) NO OPERATIONS OF BULK FIREWOOD HOURS OF OPERATION MAY TAKE PLACE MONDAY THROUGH SATURDAY FROM 7 A.M. UNTIL 6 P.M.
- PARCEL 73 & 146 ARE BOTH SUBJECT TO AGRICULTURAL LAND PRESERVATION EASEMENTS HELD BY THE HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM. HO-86-05-E & HO-08-17.
- BULK FIREWOOD USE IS CONSISTENT WITH SECTION 108.1 OF THE HOWARD COUNTY ZONING REGULATIONS, PERTAINING TO PERMITTED USES ON COUNTY PRESERVATION EASEMENTS.
- ALL OPERATIONS ARE TO BE IN ACCORDANCE WITH NFPA-1 CHAPTER 31.
- ALL SEWAGE DISPOSAL AREAS, DISPOSAL SYSTEMS, AND WELLS ON THE PROPERTY MUST MEET ALL APPLICABLE CODES PRIOR TO HEALTH DEPARTMENT APPROVAL OF ANY BUILDING PERMITS ON THE SITE.
- ONLY ONE EMPLOYEE WILL BE ONSITE FOR THE FIREWOOD OPERATION.
- STORMWATER MANAGEMENT OBLIGATIONS FOR THIS SITE WILL BE MET BY A BIO-RETENTION FACILITY (M-6) FOR THE PROPOSED RELOCATED DRIVEWAY AND A PERMANENT SEDIMENT TRAP (S-T-1) FOR THE FIREWOOD PROCESSING AREA. ON-SITE FACILITIES SHALL BE OWNED AND MAINTAINED BY THE PARCEL OWNER.
- A TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY MARS GROUP, INC. ON JULY 20, 2021 AND WAS APPROVED IN SEPTEMBER 2021.

SITE DEVELOPMENT PLAN

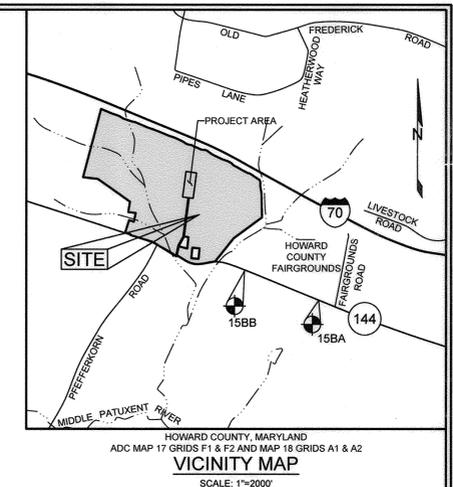
STREAKER FIREWOOD

TAX MAP 9 PARCEL 73

TAX MAP 15 PARCEL 146

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING SPECIMEN TREE
- EXISTING WETLAND
- EXISTING WETLAND BUFFER
- EXISTING STREAM
- EXISTING STREAM BUFFER
- EXISTING 100-YEAR FLOODPLAIN



BENCHMARKS

NUMBER	NORTHING	EASTING	ELEVATION
158A	597,228.1254	1,321,719.2760	590.296'
158B	597,926.9029	1,319,949.8262	527.586'

LINE CHART

TAG	BEARING	DISTANCE
1	N 72°37'37" W	99.13'
2	N 68°32'24" W	99.00'
3	N 57°13'48" W	101.98'
4	N 71°24'9" W	100.12'
5	N 71°24'9" W	100.12'
6	N 77°41'5" W	101.12'
7	N 65°42'14" W	60.63'
8	N 71°35'34" W	150.21'
9	N 68°32'24" W	200.00'
10	N 67°6'28" W	200.06'
11	N 71°58'25" W	150.27'
12	N 64°50'54" W	193.57'
13	S 56°17'27" E	50.41'
14	S 59°43'44" E	60.17'
15	S 59°45'9" E	14.16'
16	S 67°10'36" E	24.67'
17	N 78°18'37" E	100.78'
18	S 58°25'37" E	49.91'
19	S 68°25'56" E	98.90'
20	S 64°27'18" E	98.88'
21	S 84°35'21" E	104.98'
22	S 64°44'21" E	49.56'
23	S 50°52'20" E	50.97'
24	S 56°37'51" E	99.82'
25	S 61°28'24" E	49.49'
26	S 64°51'5" E	197.92'
27	S 70°17'7" E	150.03'
28	S 61°49'21" E	16.60'
29	S 61°46'53" E	81.15'
30	S 40°38'9" E	55.40'
31	S 61°47'45" E	150.00'
32	S 78°28'42" E	52.20'
33	S 56°57" E	100.50'
34	S 56°57" E	178.78'
35	S 18°47'3" E	56.64'
36	S 0°28'53" E	94.97'
37	S 9°43'15" E	164.83'
38	N 13°7'20" E	30.98'
39	N 2°33'53" W	18.80'
40	N 70°33'53" W	138.00'
41	S 70°46'53" E	118.00'
42	S 84°30'57" E	172.40'
43	S 84°30'57" E	172.40'
44	S 75°50'58" E	214.66'
45	S 80°46'16" E	113.12'
46	N 12°13'45" E	114.89'
47	N 14°9'43" E	98.69'
48	N 13°12'9" E	24.84'
49	N 21°3'1" E	21.14'
50	N 19°28'32" E	19.03'
51	N 4°59'7" E	198.57'
52	N 6°7'43" E	129.98'

ADDRESS CHART

PARCEL	STREET ADDRESS
73	13370 FREDERICK ROAD
146	13300 FREDERICK ROAD

SHEET INDEX

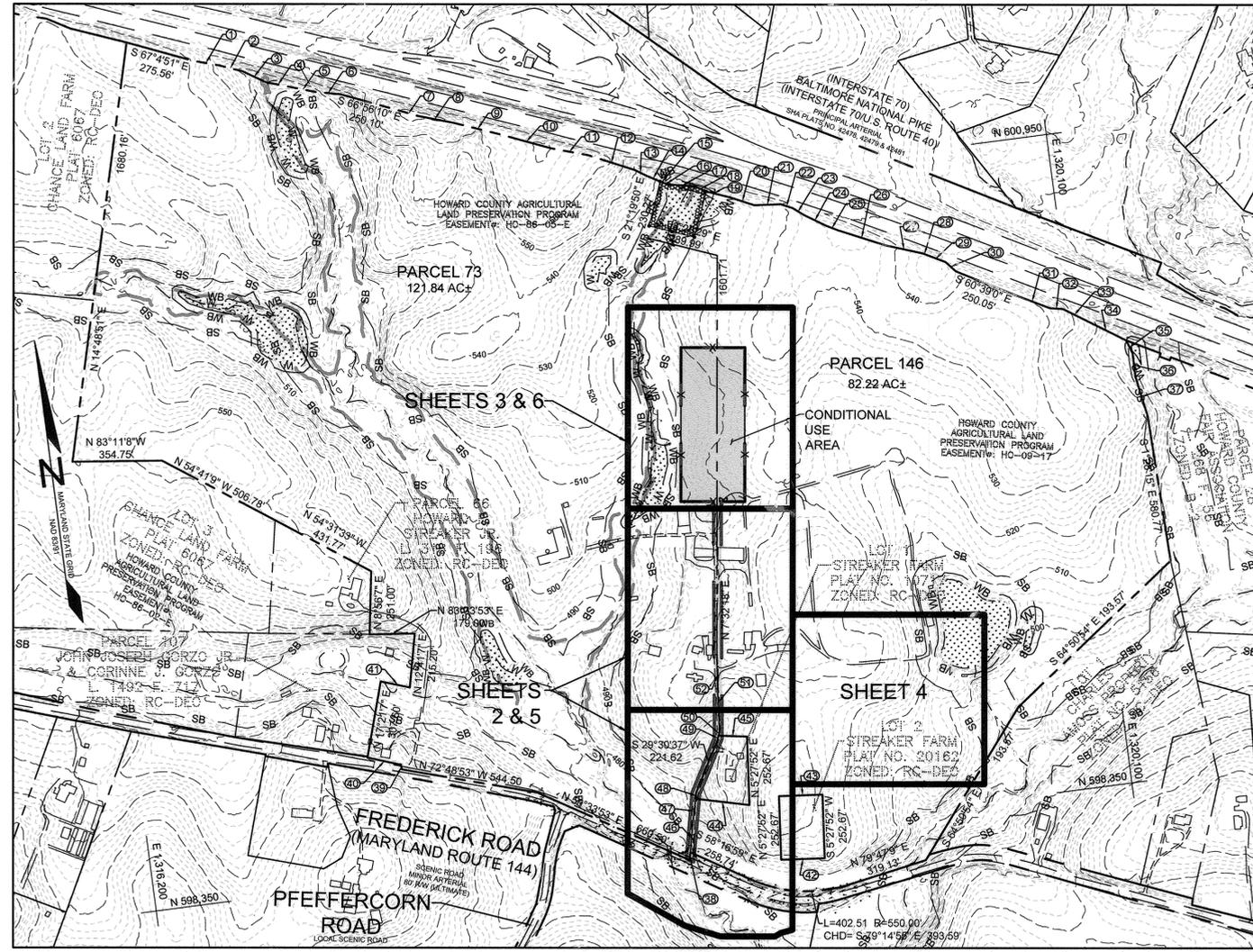
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GRADING PLAN
3	REVISED GRADING PLAN
4	GRADING AND FOREST CONSERVATION PLAN
5	SEDIMENT AND EROSION CONTROL PLAN
6	SEDIMENT AND EROSION CONTROL PLAN, DETAILS, & DRAINAGE AREA MAP
7	SEDIMENT AND EROSION CONTROL DRAINAGE AREA MAP - BIO 1
8	SEDIMENT AND EROSION CONTROL DETAILS
9	BIORETENTION FACILITY DETAILS

PAVING SECTIONS

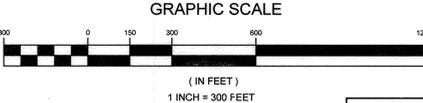
SEC. NO.	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)	3 TO <5	5 TO <7	7 TO <9	9 TO <12	12 TO <15	15 TO <18	18 TO <27	27 TO <35	35 TO <45	45 TO <60	60 TO <80	80 TO <100
P-2	PARKING DRIVE ISLES: RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY LOCAL ROADS: ACCESS PLACE, ACCESS STREET CUL-DE-SACS: RESIDENTIAL	PAVEMENT MATERIAL (INCHES)	MIN	HMA WITH GAB	MIN	HMA WITH CONSTANT GAB	MIN	HMA WITH CONSTANT GAB	MIN	HMA WITH CONSTANT GAB	MIN	HMA WITH CONSTANT GAB	MIN	HMA WITH CONSTANT GAB
		HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
		HMA SUPERPAVE INTERMEDIATE SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
		HMA SUPERPAVE BASE 19.0 MM, PG 64-22, LEVEL 1 (ESAL)	2.0	2.0	2.0	3.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
		GRADED AGGREGATE BASE (GAB)	8.0	4.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	

- NOTES:**
- HEAVY TRUCKS ARE DEFINED AS THOSE WITH SIX (6) WHEELS OR MORE INCLUDING GARAGE TRUCKS.
 - HMA SUPERPAVE LAYERS SHALL BE PLACED IN APPROPRIATE COMPACTED LIFT THICKNESS: 19.0 MM BASE (2.0" MIN TO 4.0" MAX), 12.5 MM SURFACE (1.5" MIN TO 3.0" MAX), AND 9.5 MM SURFACE (1.0" MIN TO 2.0" MAX).
 - GRADED AGGREGATE BASE (GAB) TO BE PLACED AND COMPACTED IN 6" MAX COMPACTED THICKNESS LAYERS.
 - THE INTERMEDIATE SURFACE COURSE LAYER MUST BE PLACED WITHIN 2 WEEKS OF PLACEMENT OF BASE COURSE, AND IS REQUIRED PRIOR TO SUBSTANTIAL COMPLETION INSPECTION AND BOND REDUCTION.
 - IN LIEU OF PLACING THE INTERMEDIATE SURFACE COURSE LAYER FOR COMMERCIAL, INDUSTRIAL ENTRANCE APRONS WITHIN THE COUNTY RIGHT-OF-WAY WHERE ADJACENT LANES ARE NOT REQUIRED, THE THICKNESS OF THE INTERMEDIATE PAVEMENT LAYER CAN BE ADDED TO THE REQUIRED THICKNESS OF THE ASPHALT LAYER.
 - THE CONSTRUCTION DRAWINGS SHALL SHOW THE PAVING SECTION, ROAD CLASSIFICATION AND CBR VALUE FOR EACH ROADWAY.

OWNER	DEVELOPER
CLEAR VIEW FARM, LLC 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794 GEORGE STREAKER, JR. 443-834-2402 GFSJR17@GMAIL.COM	MHGH&S, LLC 13300 ROUTE 144 WEST FRIENDSHIP, MD 21794 GEORGE STREAKER, JR. 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794



LOCATION MAP



STORMWATER MANAGEMENT PRACTICES

PARCEL	ADDRESS	BIORETENTION FACILITY F-6 (NUMBER)
73	13370 ROUTE 144	1

STORMWATER MANAGEMENT NOTES & DESIGN NARRATIVE

BELOW IS A LIST TO DESCRIBE THE STORMWATER MANAGEMENT REQUIREMENTS AND ACHIEVEMENTS FOR THE SITE PER THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II, AS AMENDED BY THE STORMWATER MANAGEMENT ACT OF 2007.

- ENVIRONMENTALLY SENSITIVE AREAS HAVE BEEN AVOIDED.
- TO THE GREATEST EXTENT PRACTICABLE THE NATURAL FLOW PATTERNS OF THE SITE HAVE BEEN MAINTAINED.
- THE DESIGN INCORPORATES THE LEAST IMPERVIOUS AREA POSSIBLE.
- SILT FENCES AND A SEDIMENT TRAP ARE USED AS SEDIMENT AND EROSION CONTROL.
- ESD PLANNING TECHNIQUES AND PRACTICES HAVE BEEN IMPLEMENTED TO THE MAXIMUM EXTENT PRACTICABLE THROUGH USE OF A BIO RETENTION FACILITY (M-6) AND ROOFTOP (N-1) & NON-ROOFTOP (N-2) DISCONNECTS.
- A DESIGN MANUAL WAIVER AND WAIVER PETITION HAVE BEEN REQUESTED. SEE GENERAL NOTES 33 AND 34.

SITE ANALYSIS DATA SHEET

ENVIRONMENTAL AREA	SIZE OR USE (1)
TOTAL PROJECT AREA	2.97 ACRES ± (4)
LIMIT OF DISTURBANCE	4.09 ACRES ±
GREEN OPEN AREA (LAWN)	0 ACRES ±
IMPERVIOUS AREA	0.07 ACRES ±
PROPOSED SITE USES	BULK FIREWOOD PROCESSING
WETLANDS	237.978 SQ FT±
WETLAND BUFFERS	200.908 SQ FT±
FLOODPLAINS	612.318 SQ FT±
FLOODPLAIN BUFFERS	447.901 SQ FT±
EXISTING FOREST	0 SQ FT±
SLOPES GREATER THAN 15%	10,321 SQ FT±
HIGHLY ERODIBLE SOILS (3)	0.51 ACRES±

- NOTES:**
- AREAS LISTED WITH AN ASTERISK ARE NOT WITHIN OUR CONDITIONAL USE AREA.
 - SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 - HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT.
 - TOTAL PROJECT ACREAGE REFLECTS THE CONDITIONAL USE AREA ONLY.

PERMIT INFORMATION CHART

PROJECT NAME	SECTION	PARCEL #
STREAKER FIREWOOD	N/A	73 & 176
LIBER/FOLIO	GRID #	ZONING
18220/230 & 3999/580	3	RC-DEO
TAX MAP #	ELECT. DIS.	CENSUS TRACT
9 & 15	3RD	603003
WATER CODE	SEWER CODE	
N/A	N/A	

STORMWATER MANAGEMENT INFORMATION

PARCEL NUMBER	FACILITY NAME & NUMBER	PRACTICE TYPE	PUBLIC	PRIVATE	PRIVATELY MAINTAINED
73	BIORETENTION FACILITY #1	F-6		X	YES

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
(Signature) CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 10/24/2022	(Signature) COUNTY HEALTH OFFICER DATE: 10/26/2022
(Signature) CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 10/26/2022	(Signature) HOWARD COUNTY HEALTH DEPARTMENT DATE:
(Signature) DIRECTOR DATE:	

COVER SHEET

STREAKER FIREWOOD

13370 & 13300 FREDERICK ROAD

TAX MAP 9 GRID 3 & TAX MAP 15 GRID 3
3RD ELECTION DISTRICT

PARCELS 73 & 146
HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC

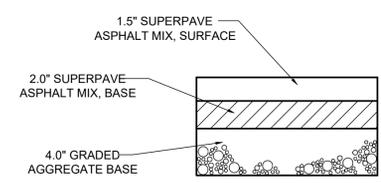
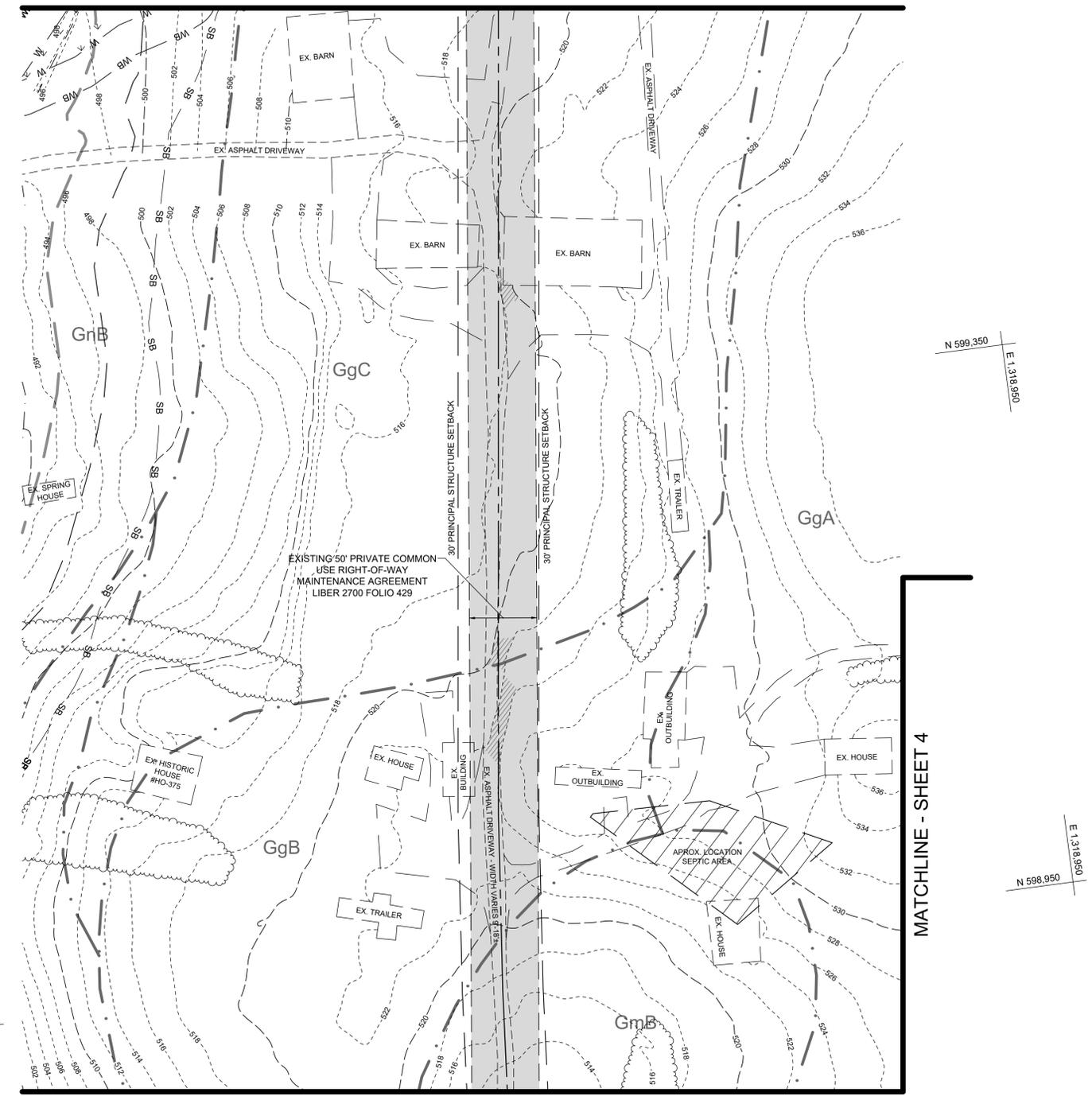
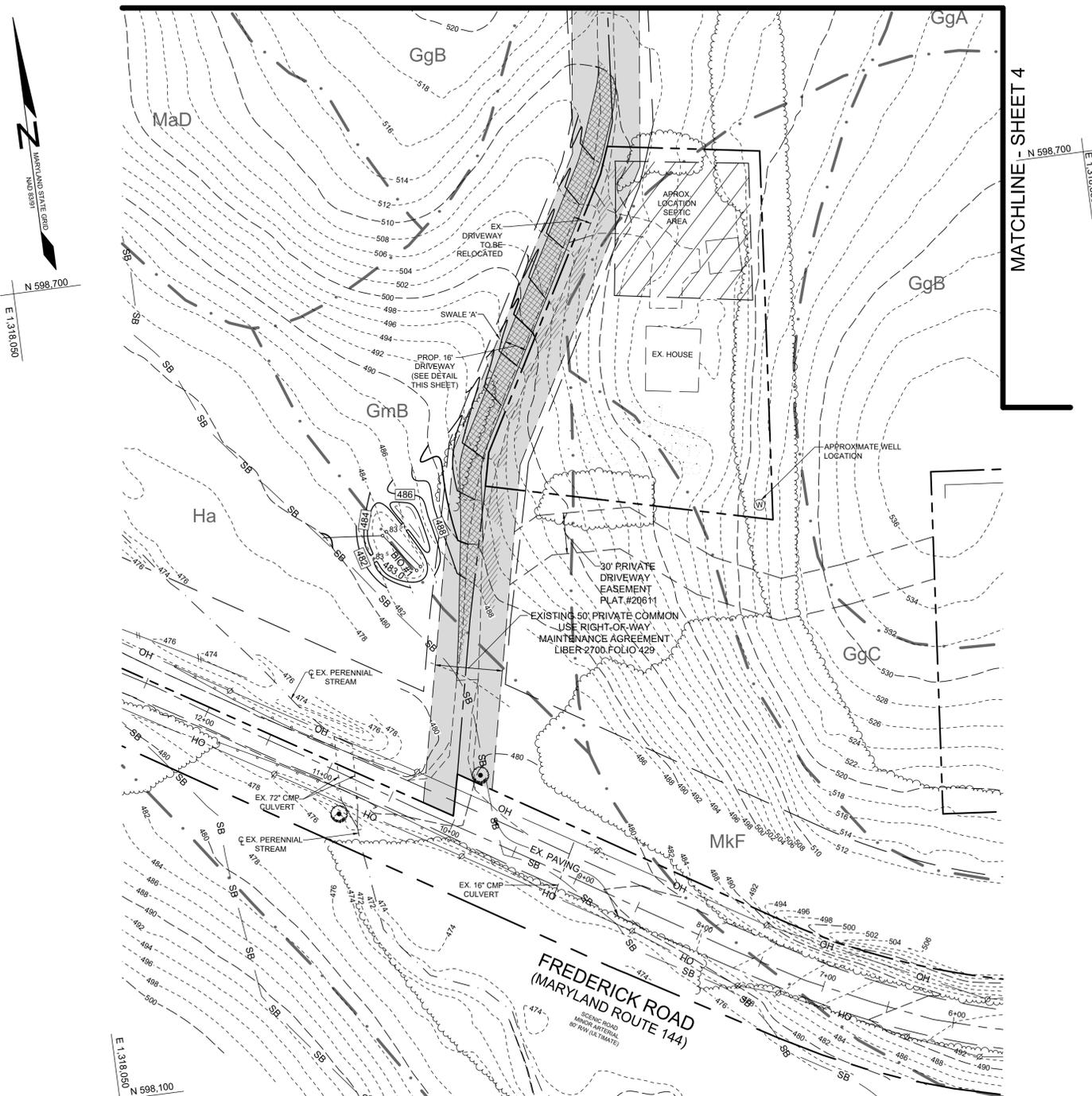
16095 Frederick Road, 2nd Floor
Woodline, MD 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: MPO
DRAWN BY: MPO
CHECKED BY: PS
SCALE: AS SHOWN
DATE: JULY 6, 2022
PROJECT #: 18-053
SHEET #: 1 of 9

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. 33025, EXPIRATION DATE: JUNE 20, 2023

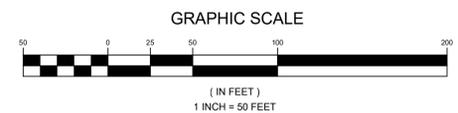
MATCHLINE - THIS SHEET

MATCHLINE - SHEET 3



PAVING SECTION FOR 16' WIDE DRIVEWAY
NOT TO SCALE
*SEE GEOTECHNICAL REPORT FOR MORE INFORMATION

PLAN VIEW: ROAD AND DRIVEWAY ENTRANCE
SCALE: 1"=50'



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING SPECIMEN TREE
- EXISTING WETLAND
- EXISTING WETLAND BUFFER
- EXISTING STREAM
- EXISTING STREAM BUFFER
- ACCESS EASEMENT
- MODERATE SLOPES (15-24%)
- PROPOSED DRIVEWAY LOCATION
- SB

PLAN VIEW: DRIVEWAY AND ADJACENT BUILDINGS
SCALE: 1"=50'

OWNER
CLEAR VIEW FARM, LLC
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794
443-834-2402
GFSJR17@GMAIL.COM

MHG&S, LLC
13300 ROUTE 144
WEST FRIENDSHIP, MD 21794

DEVELOPER
GEORGE STREAKER, JR.
13370 ROUTE 144
WEST FRIENDSHIP, MD 21794

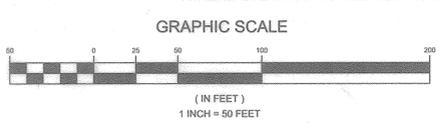
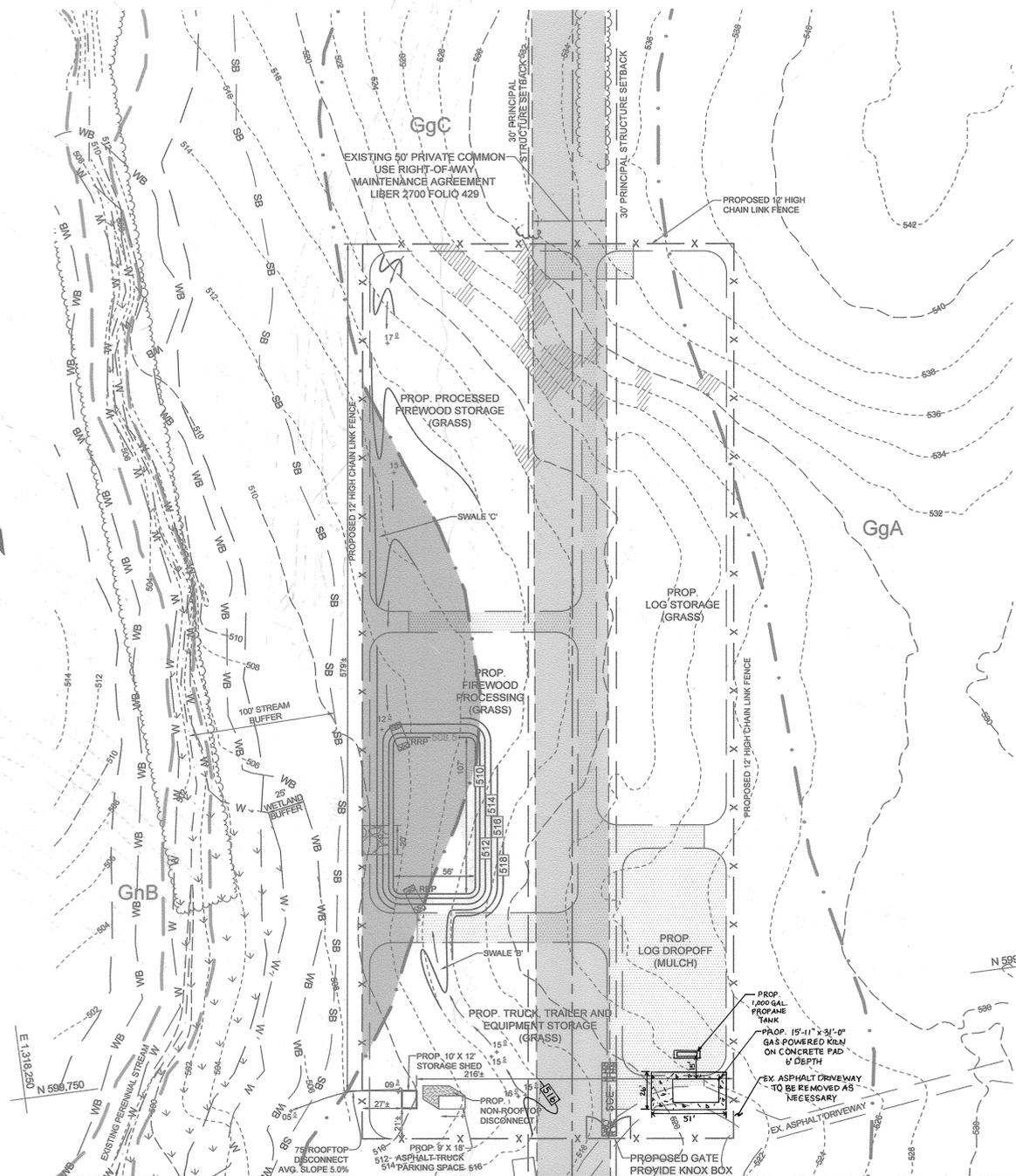
GRADING PLAN
STREAKER FIREWOOD
13370 & 13300 FREDERICK ROAD
TAX MAP 9 GRID 3 & TAX MAP 15 GRID 3
3RD ELECTION DISTRICT
PARCELS 73 & 146
HOWARD COUNTY, MARYLAND

	SILL ENGINEERING GROUP, LLC 16005 Frederick Road, 2nd Floor Woodbine, MD 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	DESIGN BY: MPO DRAWN BY: MPO CHECKED BY: PS SCALE: AS SHOWN DATE: JULY 6, 2022 PROJECT #: 18-053 SHEET #: 2 of 9
	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. 20225, EXPIRATION DATE: JUNE 20, 2023	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 10/24/2022
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 10/24/2022
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 10/26/2022
 DIRECTOR

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 10/26/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

NO.	DESCRIPTION	DATE

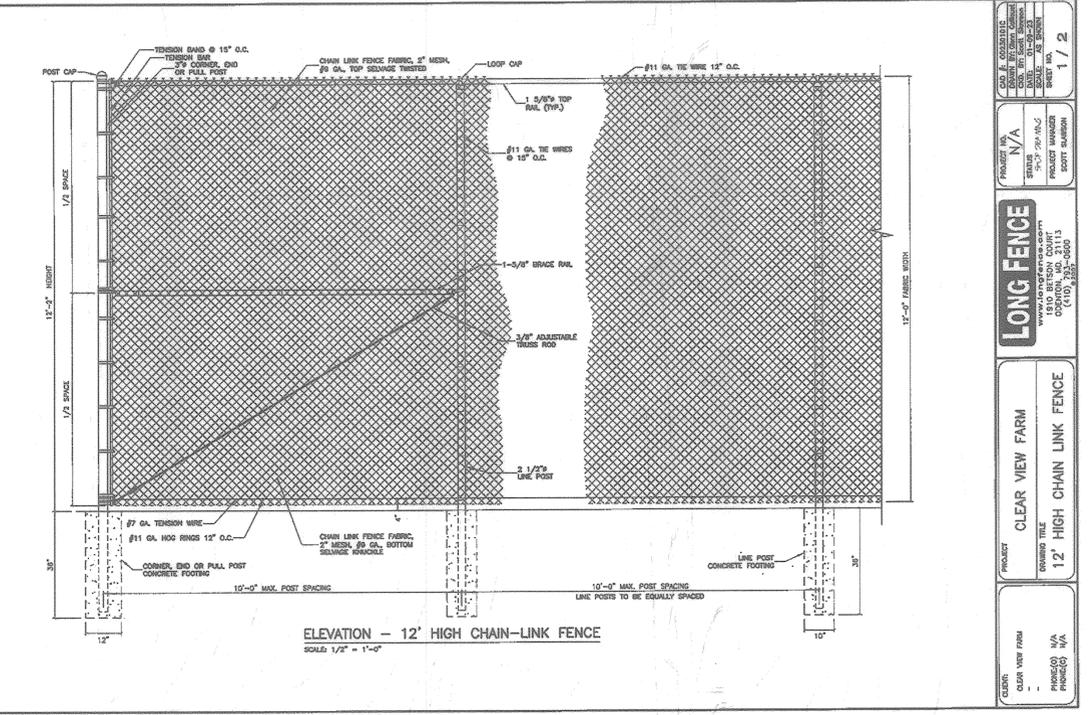


MATCHLINE - SHEET 2
 PLAN VIEW: CONDITIONAL USE AREA
 SCALE: 1"=50'

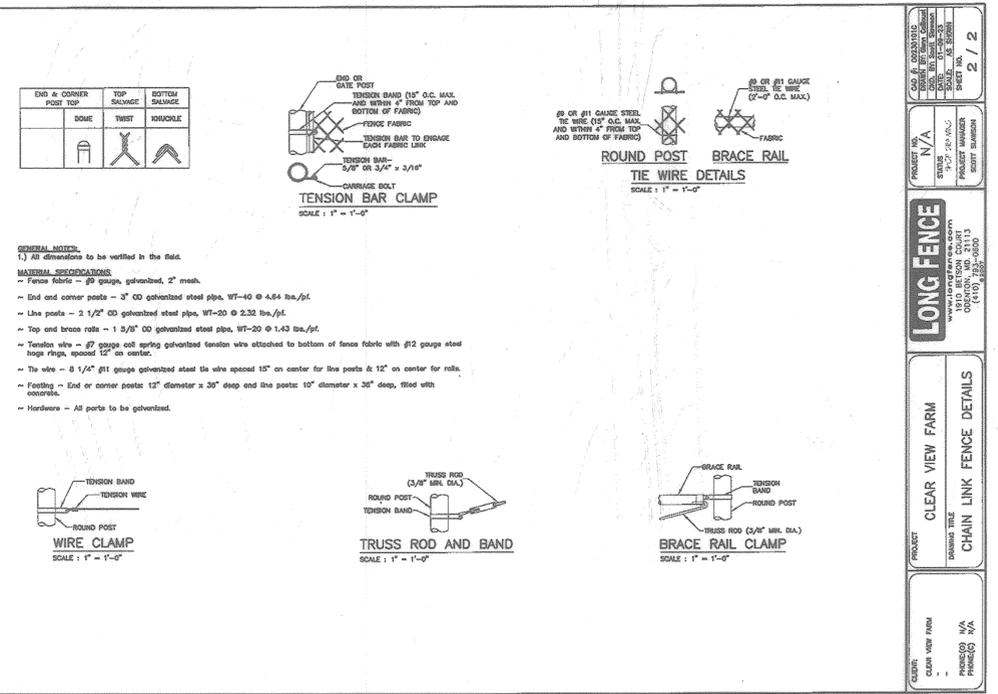
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Development Engineering Division
 DATE: 2/24/23

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
 County Health Officer
 DATE: 2/21/23

NO.	DESCRIPTION	DATE
2	ADD KILN AND PROPANE TANK TO THE PLAN VIEW. KILN ELEVATION ADDED.	12/21/22
1	REVISE FENCE HEIGHT AND FENCE DETAIL	1/9/2023

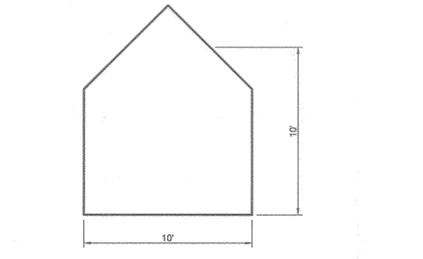
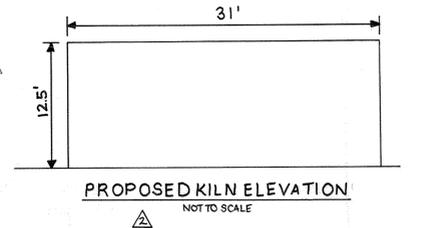


ELEVATION - 12' HIGH CHAIN-LINK FENCE
 SCALE: 1/2" = 1'-0"



LEGEND

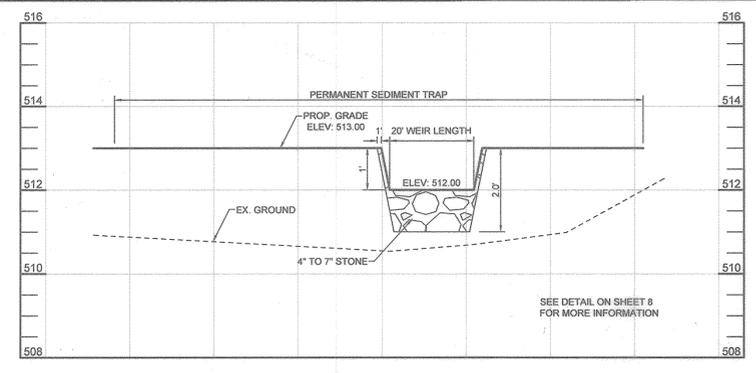
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
EXISTING SPOT ELEVATION	+
PROPOSED SPOT ELEVATION	+
DIRECTION OF FLOW	→
EXISTING TREELINE	~
PROPOSED TREELINE	~
EXISTING SPECIMEN TREE	⊙
EXISTING WETLAND	W
EXISTING WETLAND BUFFER	WB
EXISTING STREAM	---
EXISTING STREAM BUFFER	SB
ACCESS EASEMENT	▭
HIGHLY ERODIBLE SOILS	▨
MODERATE SLOPES	▧
PROPOSED SWALE	⇒
PROPOSED MULCH TRAFFIC AREA	▩



THE PURPOSE OF THIS SHEET IS TO UPDATE THE FENCE DETAIL

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GFSJR17@GMAIL.COM

DEVELOPER
 GEORGE STREAKER, JR.
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794



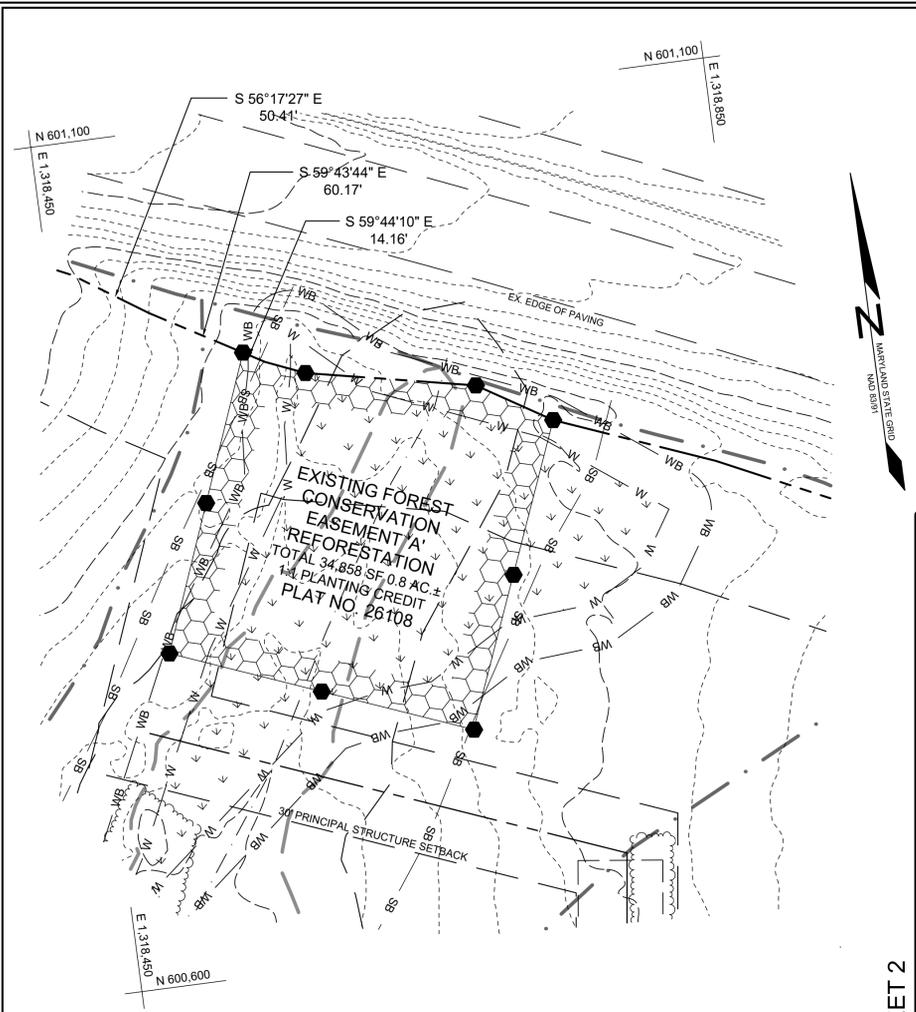
PERMANENT SEDIMENT TRAP EMBANKMENT PROFILE
 SCALE: HORIZ. 1"=20'
 VERT. 1"=2'

REVISED GRADING PLAN
STREAKER FIREWOOD
 13370 & 13300 FREDERICK ROAD
 TAX MAP 9 GRID 3 & TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

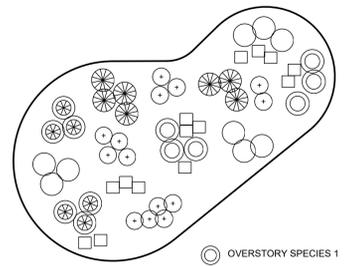
PARCELS 73 & 146
 HOWARD COUNTY, MARYLAND

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
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 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: MPO
 DRAWN BY: MPO
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: FEBRUARY 7, 2023
 PROJECT #: 18-053
 SHEET #: 3 of 9

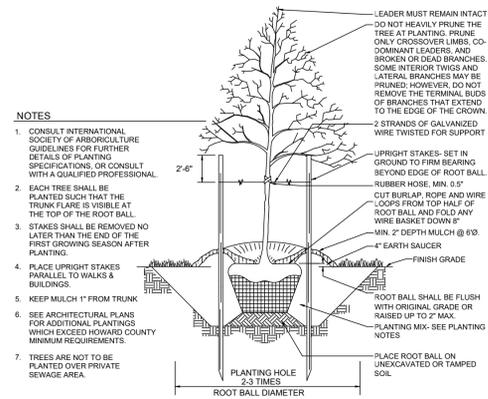


PLAN VIEW: FOREST CONSERVATION EASEMENT
SCALE: 1"=50'

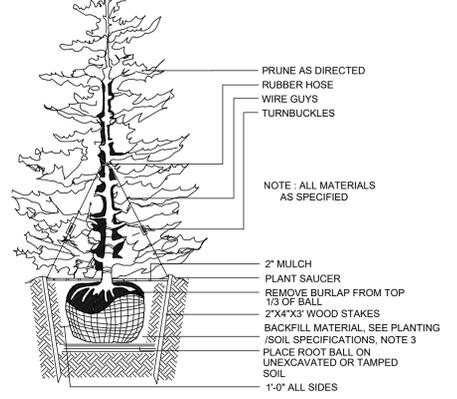


REFORESTATION RANDOM PLANTING DISTRIBUTION PLAN
NOT TO SCALE

THIS DIAGRAM SHOWS A TYPICAL DISPERSAL OF SPECIES WITHIN PLANTING AREA. THE SPACING SHALL BE IN ACCORDANCE WITH THE APPROVED PLANTING SCHEDULE. WHERE THE SIZE OF THE PLANTING STOCK VARIES, THE PLANTING UNITS SHALL BE INSTALLED AT AVERAGE SPACING TO PROVIDE APPROXIMATELY UNIFORM COVERAGE.



TYPICAL TREE PLANTING AND STAKING
DECIDUOUS TREES UP TO 2-1/2" CALIPER
NOT TO SCALE



TYPICAL EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

LEGEND

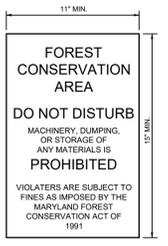
EXISTING CONTOUR	---
PROPOSED CONTOUR	---
EXISTING SPOT ELEVATION	382.3
PROPOSED SPOT ELEVATION	382.3
DIRECTION OF FLOW	→
EXISTING TREELINE	~
PROPOSED TREELINE	~
EXISTING SPECIMEN TREE	○
EXISTING WETLAND	W
EXISTING WETLAND BUFFER	WB
EXISTING STREAM	---
EXISTING STREAM BUFFER	SB
LIMIT OF DISTURBANCE	LOD

PLANTING/SOIL SPECIFICATIONS

- INSTALLATION OF B&B / CONTAINER STOCK SHALL BE PERFORMED MARCH 15 - MAY 30 OR SEPTEMBER 15 - NOVEMBER 15
- DISTURBED AREAS SHALL BE SEEDED AND STABILIZED AS PER GENERAL CONSTRUCTION PLAN FOR PROJECT. PLANTING AREAS NOT IMPACTED BY SITE GRADING SHALL HAVE NO ADDITIONAL TOPSOIL INSTALLED.
- BAREROOT PLANTS SHALL BE INSTALLED SO THAT THE TOP OF ROOT MASS IS LEVEL WITH THE TOP EXISTING GRADE. ROOTS SHALL BE DIPPED IN AN ANTI-DESICCANT GEL PRIOR TO PLANTING. BACKFILL IN THE PLANTING PITS SHALL CONSIST OF 3 PARTS EXISTING SOIL AND 1 PART PINE FINES OR EQUIVALENT.
- FERTILIZER SHALL CONSIST OF AGRIFORM 22-8-2, OR EQUIVALENT, APPLIED AS PER MANUFACTURERS' SPECIFICATIONS. FOR WOODY PLANTS, HERBACEOUS PLANTS SHALL BE FERTILIZED WITH OSMOCOTE 8-6-12.
- PLANTS SHALL BE TRANSPORTED TO THE SITE IN A TARPED OR COVERED TRUCK. PLANTS SHALL BE KEPT MOIST PRIOR TO PLANTING.
- ALL NON-ORGANIC DEBRIS ASSOCIATED WITH THE PLANTING OPERATION SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.

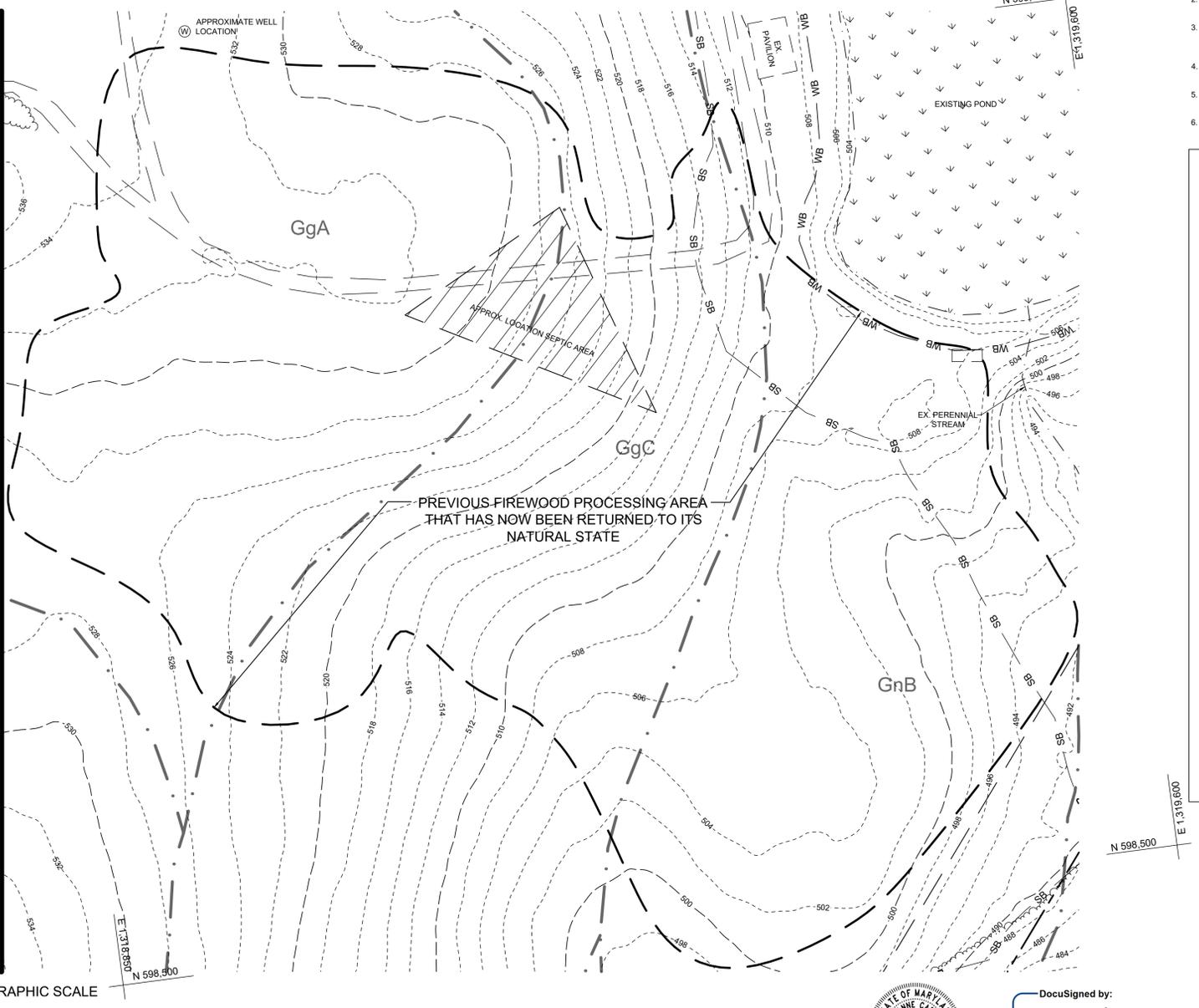
FOREST CONSERVATION NOTE

- THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION AND THE FOREST CONSERVATION MANUAL BY THE ON-SITE AFFORESTATION/REFORESTATION OF 0.8 ACRES OF FOREST. FINANCIAL SURETY WILL BE POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT AT \$0.50 PER SQUARE FOOT. (34,858 SF X \$0.50) OR \$17,429.00.
- NO RARE, THREATENED OR ENDANGERED SPECIES, OR THEIR HABITATS, WERE OBSERVED ON THE PROPERTY.
- SURROUNDING LAND USE IS PRIMARILY RURAL RESIDENTIAL DEVELOPMENT.
- FOREST IS PRESENT WITHIN THE LIMITS OF THE SUBJECT PROPERTY.
- THE SITE IS LOCATED WITHIN THE MIDDLE PATUXENT WATERSHED (02-12-09). THIS SECTION OF THE WATERSHED IS CLASSIFIED AS A USE IV-P.
- THERE ARE NO KNOWN HISTORIC STRUCTURES AND NO CEMETERIES ARE KNOWN TO OCCUR ON THE PROPERTY.
- A 100-YEAR FLOODPLAIN IS PRESENT ON THE PROPERTY.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS ALTERNATIVE COMPLIANCE HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
- THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION WITH AREAS DEFINED AS FOREST CONSERVATION EASEMENTS.
- NO STOCKPILES, PARKING AREAS, EQUIPMENT CLEANING AREAS, ETC. SHALL OCCUR WITHIN AREAS DESIGNATED AS NON-DISTURBANCE AREAS.
- TEMPORARY FENCING AND SUPER SILT FENCE, SHALL BE USED TO PROTECT FOREST RESOURCES DURING CONSTRUCTION. SUPER SILT FENCE SHALL BE INSTALLED ALONG LIMITS OF DISTURBANCE OCCURRING WITHIN 50 FEET OF THE PROPOSED FOREST RETENTION LIMITS. PERMANENT SIGNAGE SHALL BE INSTALLED ALONG THE FOREST CONSERVATION EASEMENT BOUNDARY TO PREVENT FUTURE ENCROACHMENT INTO THE AREA. SIGNAGE SHALL BE PLACED AT 50-100 FOOT INTERVALS ALONG THE BOUNDARY.



FOREST CONSERVATION SIGN DETAIL
NOT TO SCALE

- NOTES:**
- BOTTOM OF SIGN TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE.
 - SIGNS TO BE PLACED APPROXIMATELY 50' - 100' APART. CONDITIONS ON SITE AFFECTING VISIBILITY MAY WARRANT PLACING SIGNS CLOSER OR FARTHER APART.
 - ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
 - SIGNAGE SHALL BE IN PLACE FOR PERPETUITY.

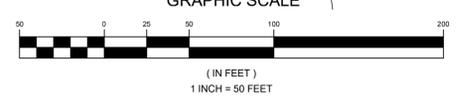


PLAN VIEW: EXISTING FIREWOOD PROCESSING AREA (TO BE RELOCATED)
SCALE: 1"=50'

REFORESTATION PLANTING SCHEDULE

FCE - 34,858 SF OR 0.8 ACRES
PLANTING UNITS REQUIRED: 320.0
PLANTING UNITS PROVIDED: 320.0

QUANTITY	SPECIES	SIZE	SPACING	EQUIVALENT AREA/TREE	TOTAL FCA
80	ACER RUBRUM - RED MAPLE	1 GAL.	10' x 10'	108.9 sf/tree	8,712.0
80	LIRIODENDRON TULIPIFERA - TULIP POPLAR	1 GAL.	10' x 10'	108.9 sf/tree	8,712.0
80	LIQUIDAMBER STYRACIFLUA - SWEETGUM	1 GAL.	10' x 10'	108.9 sf/tree	8,712.0
80	QUERCUS BICOLOR - SWAMP WHITE OAK	1 GAL.	10' x 10'	108.9 sf/tree	8,712.0
320	TOTAL 1 GAL. TREES				34,848 SF.



FOREST CONSERVATION WORKSHEET FOR STREAKER FIREWOOD

Net Tract Area						
A.	Total (Gross) Tract Area					A = 4.0
B.	Area within 100-year Floodplain					B = 0.0
C.	Other Deductions (Identify)					C = 0.0
D.	Net Tract Area					D = 4.0
Land Use Category						
Insert the number "1" under the appropriate land use (limit to only one entry)						
	Resid.	Resid.	Resid.	Inst./	Retail/Ind./	Mixed Use/
	Rural LD	Rural MD	Suburban	Linear	Office	PUD
	1	0	0	0	0	0
E.	Afforestation Threshold	(Net Tract Area x 20%)				E = 0.8
F.	Reforestation Threshold	(Net Tract Area x 50%)				F = 2.0
Existing Forest Cover						
G.	Existing Forest Cover within the Net Tract Area					G = 0.0
H.	Area of Forest above Afforestation Threshold					H = 0.0
I.	Area of Forest above Reforestation Threshold					I = 0.0
Break Even Point						
J.	Break Even Point					J = 0.0
K.	Forest Clearing Permitted without Mitigation					K = 0.0
Proposed Forest Clearing						
L.	Total Area of Forest to be Cleared					L = 0.0
M.	Total Area of Forest to be Retained					M = 0.0
Planting Requirements Inside Watershed						
N.	Reforestation for Clearing above the Reforestation Threshold					N = 0.0
P.	Reforestation for Clearing below the Reforestation Threshold					P = 0.0
Q.	Credit for Retention above the Reforestation Threshold					Q = 0.0
R.	Total Reforestation Required					R = 0.0
S.	Total Afforestation Required					S = 0.8
T.	Total Reforestation and Afforestation Requirement					T = 0.8
U.	75% of Total Obligation (Retention + Planting)					U = 0.6
V.	Planting Required Onsite to meet 75% Obligation					V = 0.6
Planting Requirements Outside Watershed						
W.	Total Planting within Development Site Watershed					W = 0.0
X.	Total Afforestation Required					X = 0.8
Y.	Remaining Planting within Watershed for Reforestation Credit					Y = 0.0
Z.	Reforestation for Clearing above the Reforestation Threshold					Z = 0.0
AA.	Reforestation for Clearing below the Reforestation Threshold					AA = 0.0
BB.	Credit for Retention above the Reforestation Threshold					BB = 0.0
CC.	Total Reforestation Required					CC = 0.0
DD.	Total Afforestation and Reforestation Requirement					DD = 0.8

Date: 03/10/2021

OWNER	DEVELOPER
CLEAR VIEW FARM, LLC 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794	MHG&S, LLC 13300 ROUTE 144 WEST FRIENDSHIP, MD 21794
GEORGE STREAKER, JR. 445-834-2402 GFS.JR17@GMAIL.COM	GEORGE STREAKER, JR. 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794

GRADING AND FOREST CONSERVATION PLAN
STREAKER FIREWOOD
13370 & 13300 FREDERICK ROAD
TAX MAP 9 GRID 3 & TAX MAP 15 GRID 3 PARCELS 73 & 146
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

<p>SILL ENGINEERING GROUP, LLC 16005 Frederick Road, 2nd Floor Woodbine, MD 21797 Phone: 410.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development</p>	DESIGN BY: MPO DRAWN BY: MPO CHECKED BY: PS SCALE: AS SHOWN DATE: JULY 6, 2022 PROJECT #: 18-053 SHEET #: 4 of 9
	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. 32025, EXPIRATION DATE: JUNE 20, 2023

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
10/24/2022
CHIEF DEVELOPER: Alexander Batistie
DATE: 10/24/2022
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 10/26/2022
DIRECTOR: [Signature]

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
DATE: 10/24/2022

DEVELOPER'S CERTIFICATE
"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
DATE: 7/6/2022

ENGINEER'S CERTIFICATE
"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
DATE: 7/6/2022

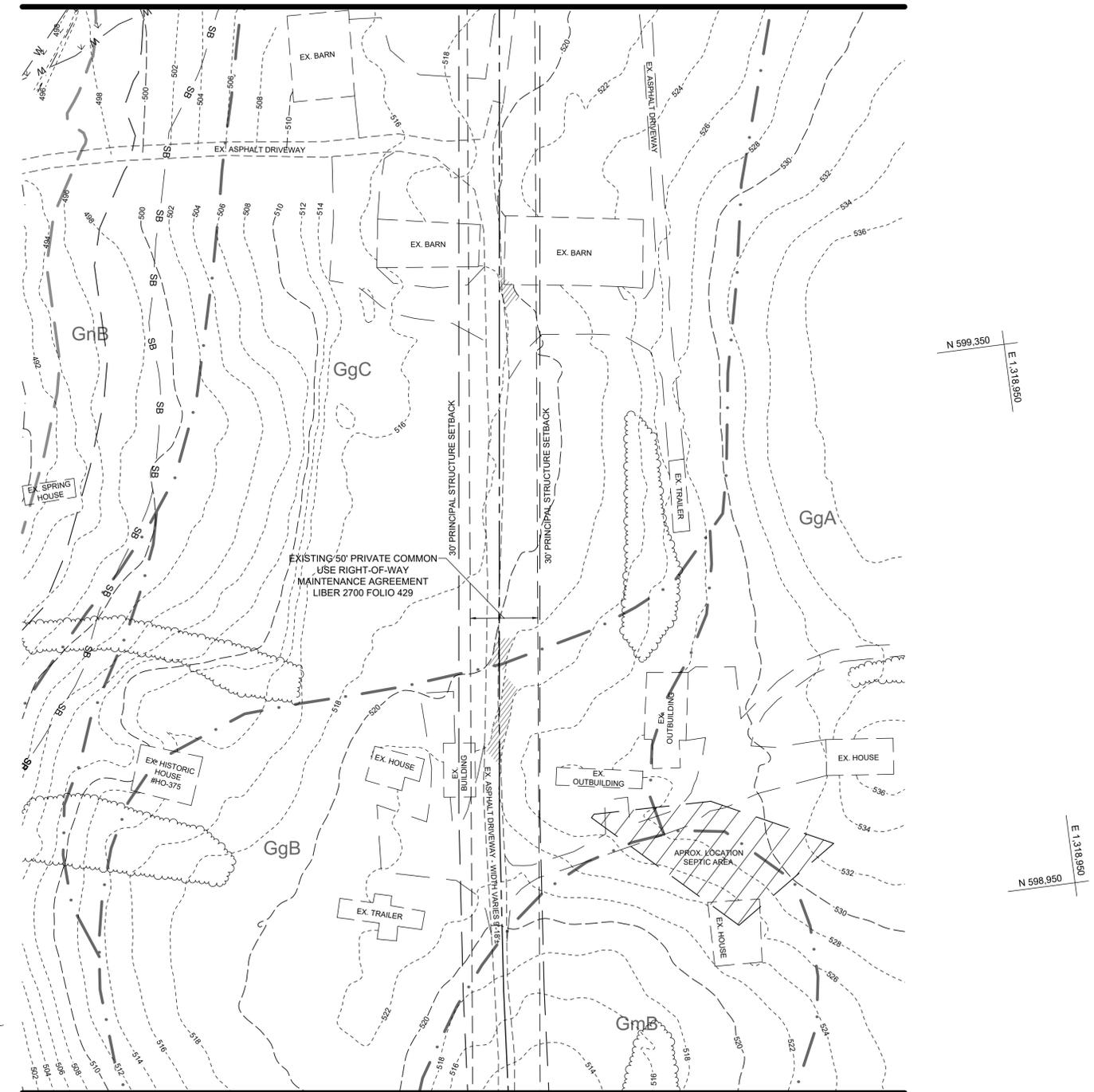
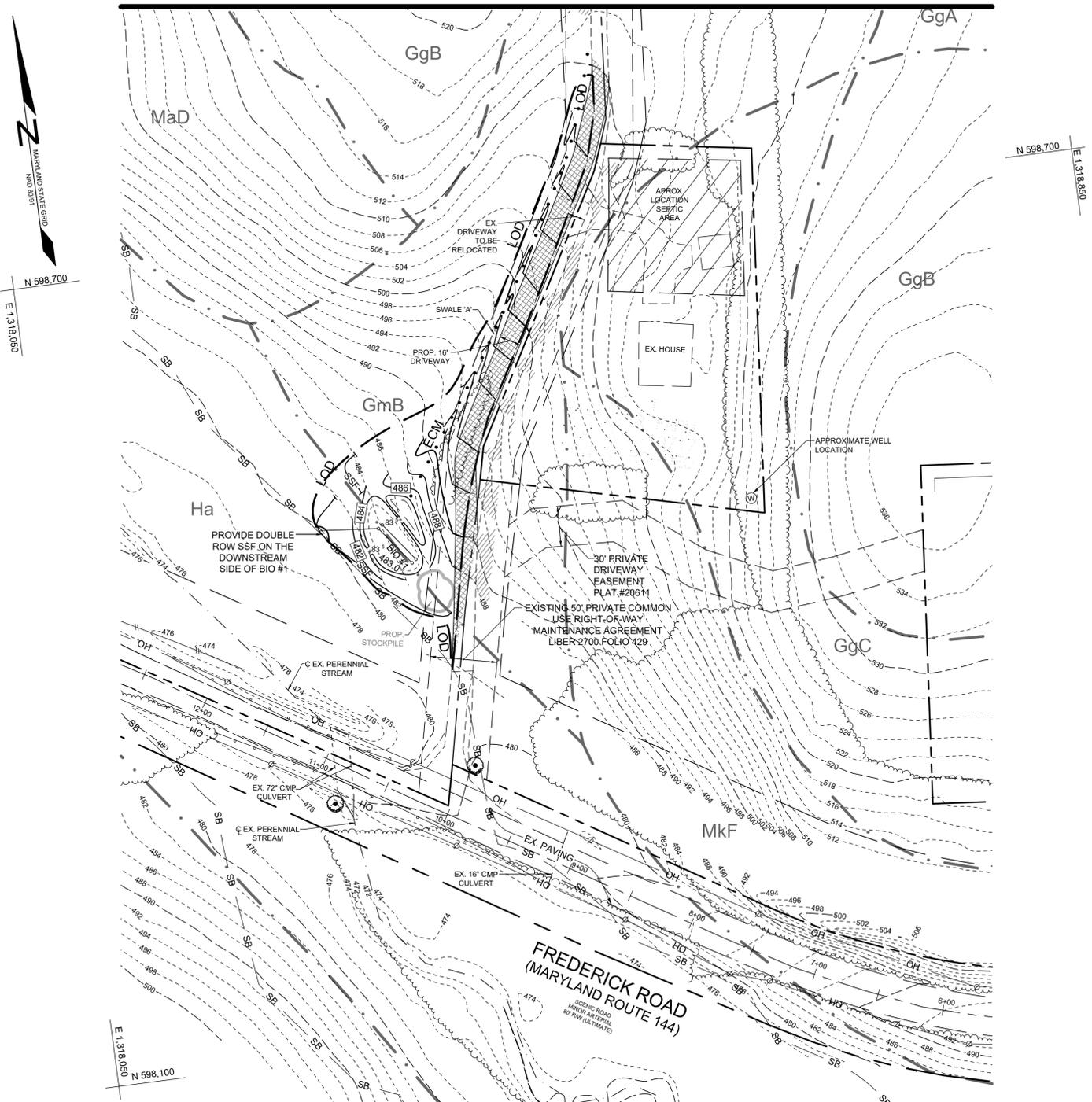
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
DATE: 10/26/2022

DocuSigned by: Joanne Carey
A4057083BCA145D... 7/6/2022
JOANNE CAREY, RLA 4148
MD DNR QUALIFIED PROFESSIONAL

NO.	DESCRIPTION	DATE

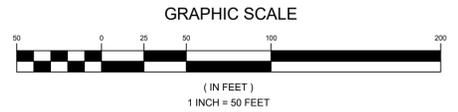
MATCHLINE - THIS SHEET

MATCHLINE - SHEET 6



PLAN VIEW: ROAD AND DRIVEWAY ENTRANCE

PLAN VIEW: DRIVEWAY AND ADJACENT BUILDINGS



LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING SPECIMEN TREE
- EXISTING WETLAND
- EXISTING WETLAND BUFFER
- EXISTING STREAM
- EXISTING STREAM BUFFER
- SUPER SILT FENCE
- LIMIT OF DISTURBANCE
- MODERATE SLOPES (OVER 15%)
- PROPOSED DRIVEWAY LOCATION
- EROSION CONTROL MATTING
- SB
- SSF
- LOD
- ECM

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Developed by: *Paul M. Sill, P.E.*
 DATE: 7/6/2022
 SIGNATURE OF DEVELOPER: _____

ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DocuSigned by: *Paul M. Sill, P.E.*
 DATE: 10/21/2022
 SIGNATURE OF ENGINEER: _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT AND ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

DATE: 10/24/2022
 DATE: 10/24/2022
 DATE: 10/26/2022

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

DocuSigned by: *Alexander Bratovic*
 DATE: 10/24/2022
 HOWARD SCD

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by: *Michael J. Davis*
 DATE: 10/26/2022
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-534-2402
 GFSJR17@GMAIL.COM

DEVELOPER
 GEORGE STREAKER, JR.
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794

SEDIMENT AND EROSION CONTROL PLAN
STREAKER FIREWOOD
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 TAX MAP 9 GRID 3 & TAX MAP 15 GRID 3
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 PARCELS 73 & 146
 HOWARD COUNTY, MARYLAND

DESIGN BY: MPO
 DRAWN BY: MPO
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: JULY 6, 2022
 PROJECT #: 18-053
 SHEET #: 5 of 9

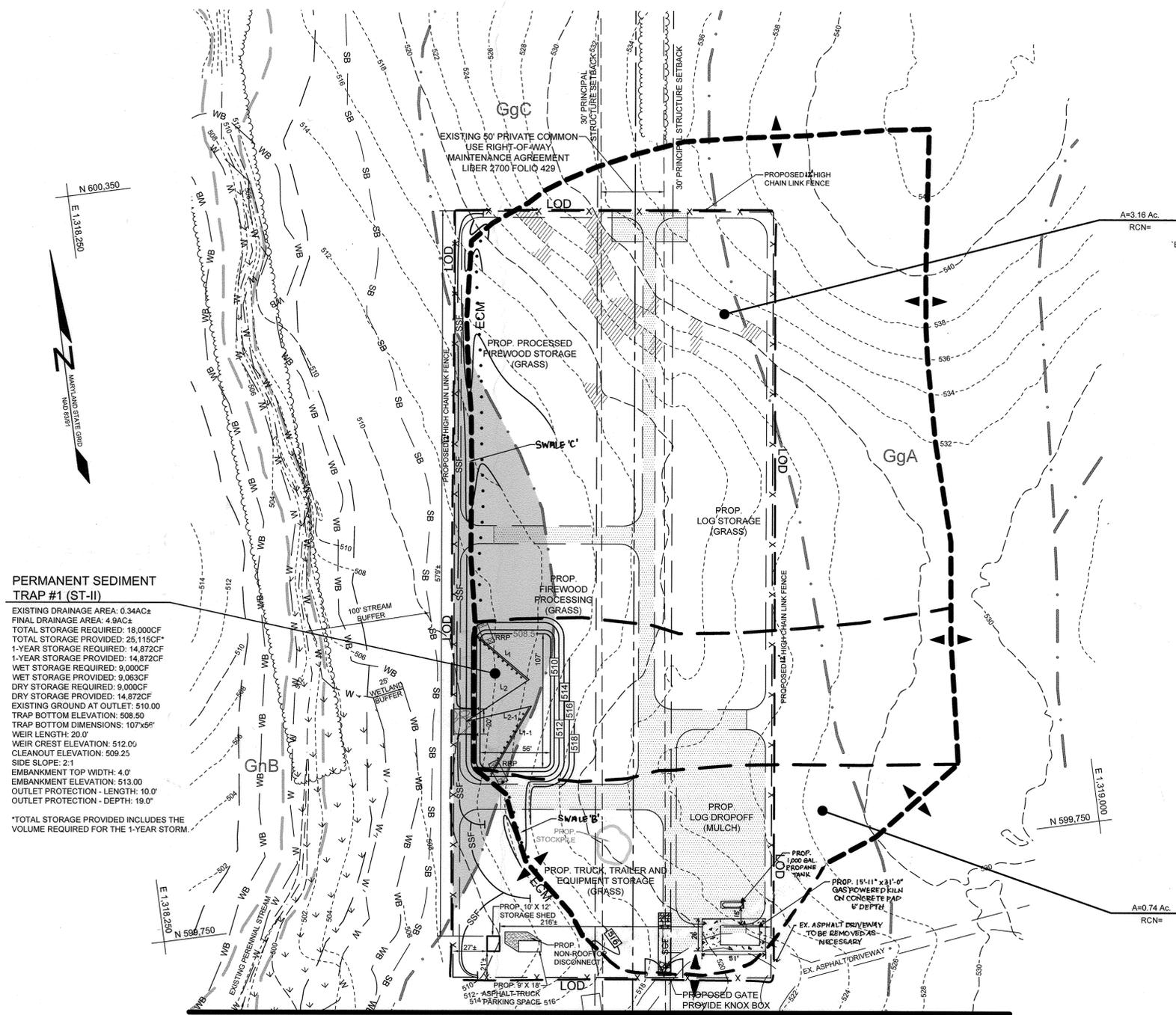
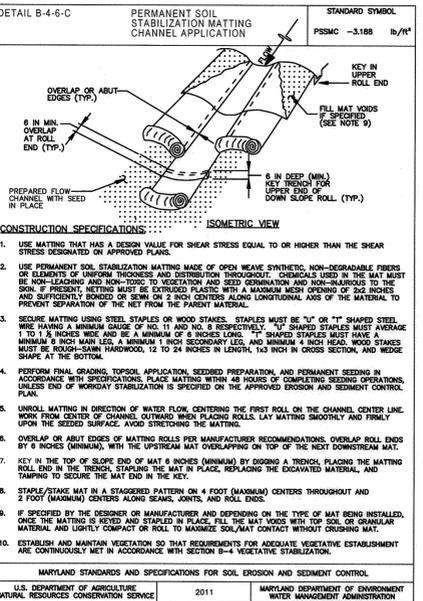
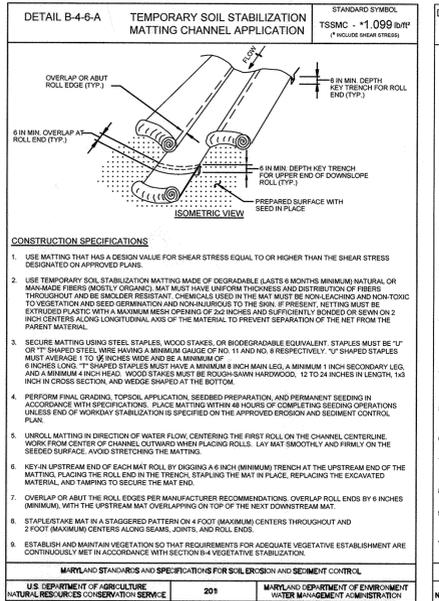
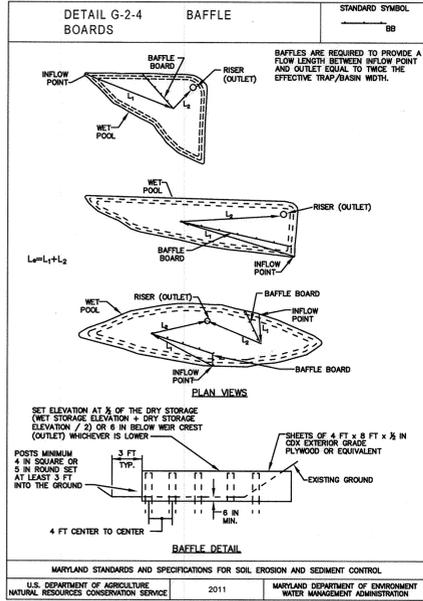
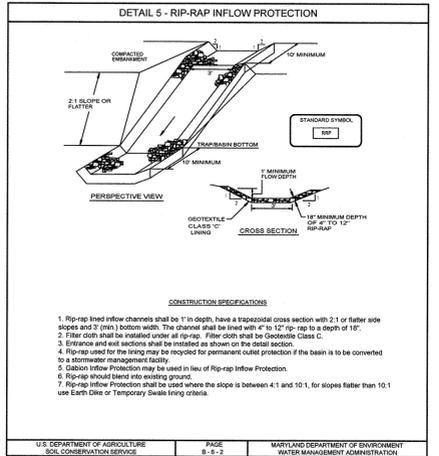
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 16005 Frederick Road, 2nd Floor
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 Email: info@sillengineering.com
 Civil Engineering for Land Development

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. 32025, EXPIRATION DATE: JUNE 20, 2023

NO.	DESCRIPTION	DATE

SHEAR STRESS VALUES FOR SOIL STABILIZATION			
SWALE	TYPE OF STABILIZATION	AVERAGE VELOCITY FT/S	SHEAR STRESS LB/FT ²
SWALE A	PERMANENT STABILIZATION MATTING	6.5358	3.1876
SWALE B	TEMPORARY STABILIZATION MATTING	3.0113	0.6930
SWALE C	TEMPORARY STABILIZATION MATTING	4.1486	1.0986

LEGEND	
EXISTING CONTOUR	--- 382 ---
PROPOSED CONTOUR	--- 382 ---
EXISTING SPOT ELEVATION	382.3
PROPOSED SPOT ELEVATION	382.3
DIRECTION OF FLOW	→
EXISTING TREELINE	~
PROPOSED TREELINE	~
EXISTING SPECIMEN TREE	⊙
EXISTING WETLAND	W
EXISTING WETLAND BUFFER	WB
EXISTING STREAM	—
EXISTING STREAM BUFFER	SB
SUPER SILT FENCE	SSF
LIMIT OF DISTURBANCE	LOD
MODERATE SLOPES (OVER 15%)	[Hatched Box]
HIGHLY ERODIBLE SOILS	[Stippled Box]
PROPOSED SWALE	⇒ ⇒ ⇒
PROPOSED DRAINAGE DIVIDE	—▲—
PROPOSED DRAINAGE SUB-DIVIDE	—▲—
EROSION CONTROL MATTING	••• ECM
RIPRAP INFLOW PROTECTION	[RRP]
PROPOSED BAFFLE BOARDS	— — — —

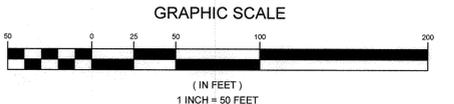


PERMANENT SEDIMENT TRAP #1 (ST-II)
 EXISTING DRAINAGE AREA: 0.34AC±
 FINAL DRAINAGE AREA: 4.9AC±
 TOTAL STORAGE REQUIRED: 18,000CF
 TOTAL STORAGE PROVIDED: 25,115CF
 1-YEAR STORAGE PROVIDED: 14,872CF
 1-YEAR STORAGE REQUIRED: 9,000CF
 WET STORAGE PROVIDED: 9,000CF
 WET STORAGE REQUIRED: 9,000CF
 DRY STORAGE PROVIDED: 14,872CF
 DRY STORAGE REQUIRED: 9,000CF
 EXISTING GROUND AT OUTLET: 510.00
 TRAP BOTTOM DIMENSIONS: 107'x56'
 WEIR LENGTH: 20.0'
 WEIR CREST ELEVATION: 512.00
 CLEANOUT ELEVATION: 509.25
 SIDE SLOPE: 2:1
 EMBANKMENT TOP WIDTH: 4.0'
 EMBANKMENT ELEVATION: 513.00
 OUTLET PROTECTION - LENGTH: 10.0'
 OUTLET PROTECTION - DEPTH: 19.0'

*TOTAL STORAGE PROVIDED INCLUDES THE VOLUME REQUIRED FOR THE 1-YEAR STORM.

BAFFLE BOARDS		
TRAP	FLOW LENGTHS	BAFFLE ELEVATION
1	(L1 = 58.04') + (L2 = 59.96') = 118.00'	510.95
	(L1-1 = 64.88') + (L2-1 = 53.14') = 118.00'	

NOTE: EFFECTIVE WIDTH OF SEDIMENT TRAP IS 59.00', REQUIRING A MINIMUM FLOW LENGTH OF 118.00' FOR THE PERMANENT SEDIMENT TRAP.



MATCHLINE - SHEET 5
 PLAN VIEW: CONDITIONAL USE AREA
 SCALE: 1"=50'

OWNER
 CLEAR VIEW FARM, LLC
 13370 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-534-0402
 GFSJR17@GMAIL.COM

DEVELOPER
 MGH&S, LLC
 13300 ROUTE 144
 WEST FRIENDSHIP, MD 21794
 GEORGE STREAKER, JR.
 443-534-0402
 GFSJR17@GMAIL.COM

SEDIMENT AND EROSION CONTROL PLAN, DETAILS, AND DRAINAGE AREA MAP STREAKER FIREWOOD

13370 & 13300 FREDERICK ROAD
 TAX MAP 9 GRID 3 & TAX MAP 15 GRID 3
 3RD ELECTION DISTRICT

PARCELS 73 & 146
 HOWARD COUNTY, MARYLAND

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

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

DocuSigned by:
 Alexander Brathie
 684852680884C1...

DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER
 DATE: 7/6/2022

ENGINEER'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

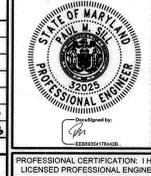
SIGNATURE OF ENGINEER
 PAUL M. SILL, P.E.
 DATE: 7/6/2022

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY

DocuSigned by:
 Michael J. Davis
 59977305485423

COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 10/26/2022

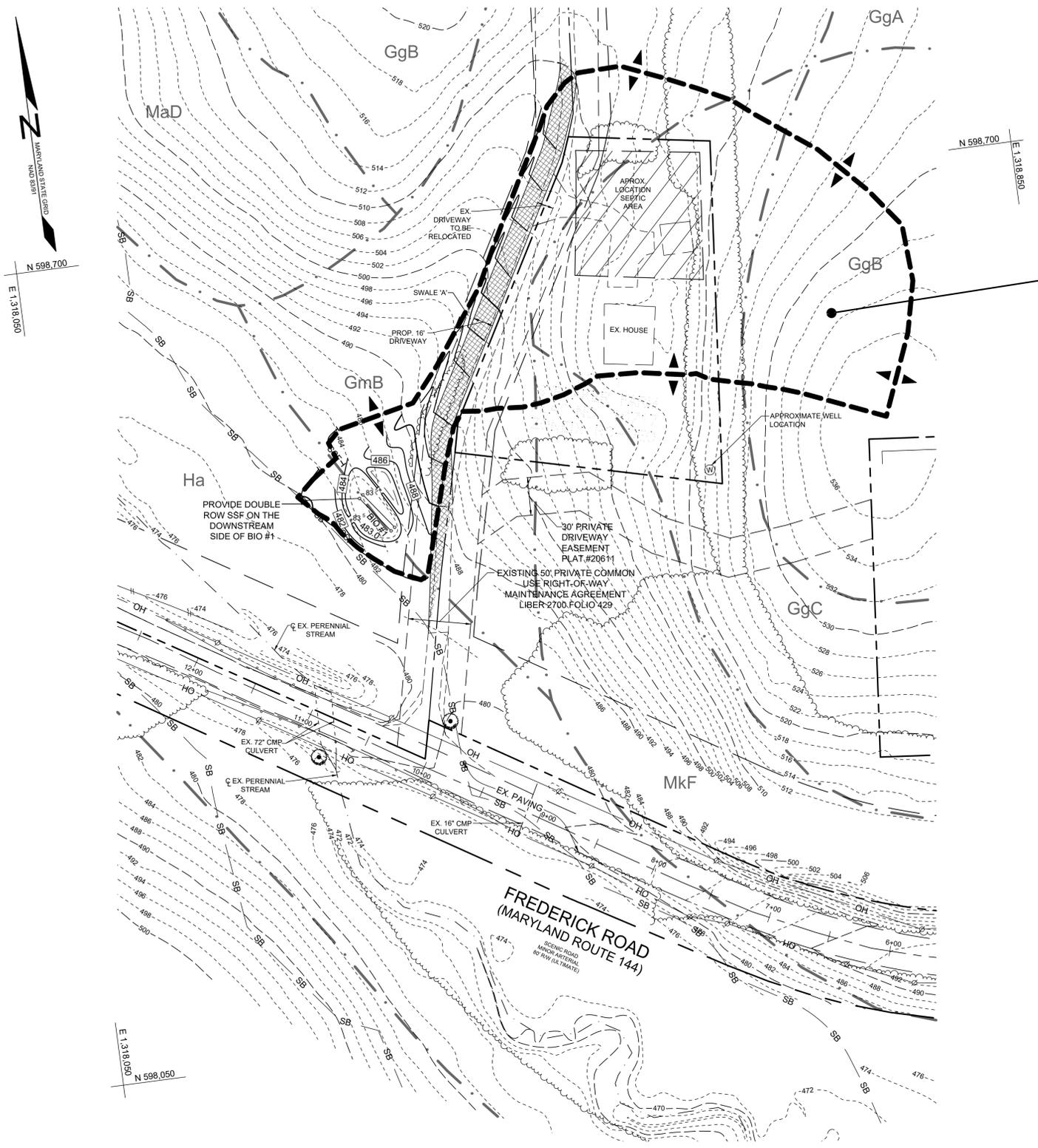
NO.	DESCRIPTION	DATE
Z	ADD KILN AND PROPANE TANK TO THE PLAN VIEW.	12/21/2023
I	REVISE FENCE HEIGHT TO BE 12'	2/7/2022



SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 West Friendship, MD 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: MPO
 DRAWN BY: MPO
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: JULY 6, 2022
 PROJECT #: 18-053
 SHEET #: 6 OF 9

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. 32205, EXPIRATION DATE: JUNE 30, 2023

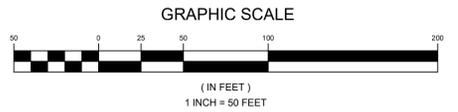


A=1.92 Ac.
PE=1.0
Z=RC-DEO
P=5.4%
'B', 'B/D' & 'C/D' SOIL

LEGEND	
EXISTING CONTOUR	--- 382 ---
PROPOSED CONTOUR	--- 382 ---
EXISTING SPOT ELEVATION	382.3
PROPOSED SPOT ELEVATION	+ 82.53
DIRECTION OF FLOW	→
EXISTING TREELINE	~ ~ ~
PROPOSED TREELINE	~ ~ ~
EXISTING SPECIMEN TREE	⊙
EXISTING WETLAND	W
EXISTING WETLAND BUFFER	WB
EXISTING STREAM	---
EXISTING STREAM BUFFER	SB

PLAN VIEW: ROAD AND DRIVEWAY ENTRANCE

SCALE: 1"=50'



OWNER	DEVELOPER
CLEAR VIEW FARM, LLC 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794	GEORGE STREAKER, JR. 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794
MHG&S, LLC 13300 ROUTE 144 WEST FRIENDSHIP, MD 21794	GEORGE STREAKER, JR. 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794
GFSJR17@GMAIL.COM	

SEDIMENT AND EROSION CONTROL DRAINAGE AREA MAP - BIO RETENTION FACILITY 1 STREAKER FIREWOOD

13370 & 13300 FREDERICK ROAD

TAX MAP 9 GRID 3 & TAX MAP 15 GRID 3 PARCELS 73 & 146
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
10/24/2022
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
10/24/2022
HOWARD SCD

DEVELOPER'S CERTIFICATE
10/24/2022
SIGNATURE OF DEVELOPER
DATE

ENGINEER'S CERTIFICATE
7/6/2022
SIGNATURE OF ENGINEER
DATE

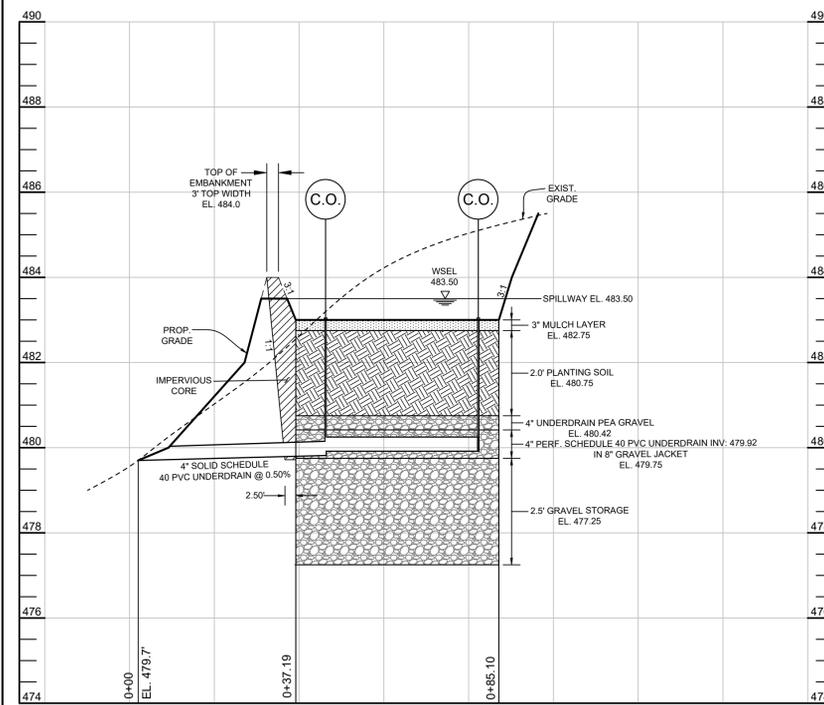
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY
10/26/2022
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

NO.	DESCRIPTION	DATE

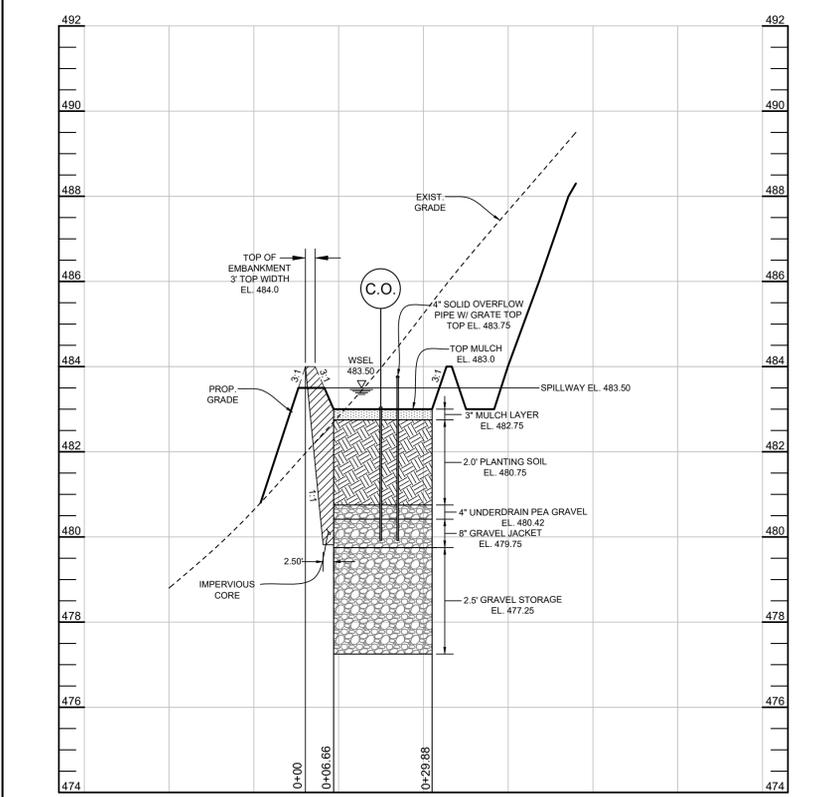
STATE OF MARYLAND PROFESSIONAL ENGINEER
SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, MD 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: MPO
DRAWN BY: MPO
CHECKED BY: PS
SCALE: AS SHOWN
DATE: JULY 6, 2022
PROJECT #: 18-053
SHEET #: 7 of 9

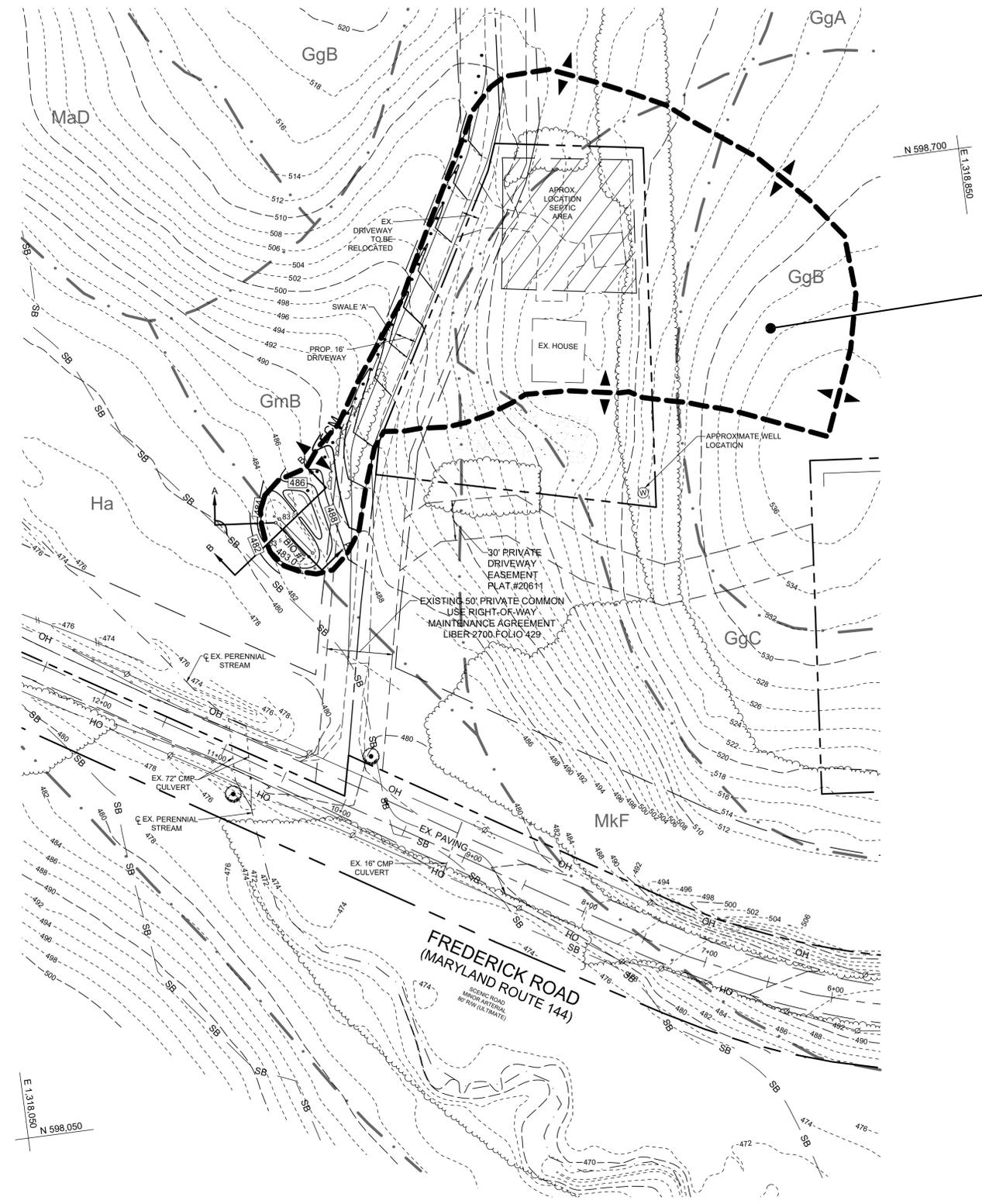
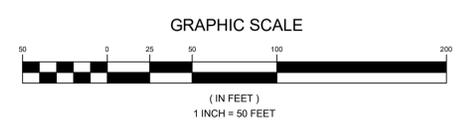
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRATION DATE: JUNE 20, 2023



BIO RETENTION FACILITY SECTION AA
SCALE: 1"=10'



BIO RETENTION FACILITY SECTION BB
SCALE: 1"=10'

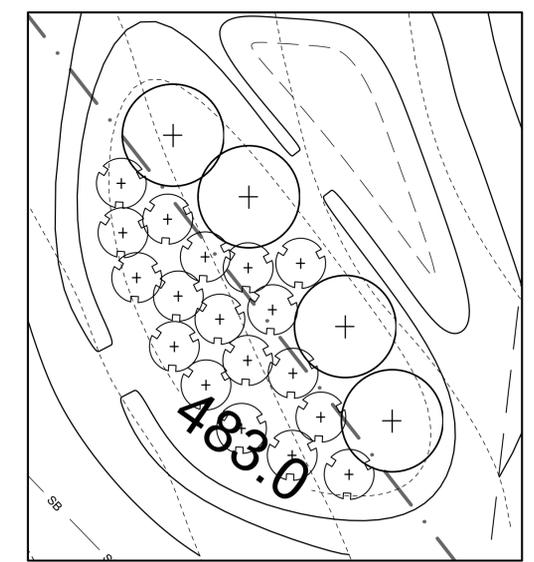


BIO RETENTION FACILITY #1 DRAINAGE AREA MAP
SCALE: 1"=50'

A=1.81 Ac.
PE=1.0
Z=RC-DEO
P=7.3%
'B', 'B'D' & 'C'D' SOIL

BIORETENTION PLANT LIST							
SYMBOL	SHRUBS	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	QUANTITY BIO 1	NOTES
(+)		HAMAMELIS X INTERMEDIA 'JELENA'	WITCH HAZEL 'JELENA'	AS SHOWN (MIN. 15' O.C.)	36"-48" HT.	4	
(+)		ILEX VERTICULATA	WINTERBERRY	AS SHOWN (MIN. 5' O.C.)	18"-24" HT.	18	TWO MALE SPECIES PLANTED IN CENTER OF GROUP

NOTE: PLANT MATERIAL MUST COVER 50% OF THE MULCH AREA AT MATURE GROWTH.
BIO 1 - BIORETENTION AREA = 1,072.17 S.F.
PROVIDED: 22 SHRUBS



BIO RETENTION FACILITY PLANTING PLAN
SCALE: 1"=10'

OWNER		DEVELOPER
CLEAR VIEW FARM, LLC 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794	MHG&S, LLC 13300 ROUTE 144 WEST FRIENDSHIP, MD 21794	GEORGE STREAKER, JR. 13370 ROUTE 144 WEST FRIENDSHIP, MD 21794
GFSJR17@GMAIL.COM		

STORMWATER MANAGEMENT DRAINAGE AREA MAP AND BIO RETENTION FACILITY DETAILS
STREAKER FIREWOOD

13370 & 13300 FREDERICK ROAD
TAX MAP 9 GRID 3 & TAX MAP 15 GRID 3 PARCELS 73 & 146
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

	SILL ENGINEERING GROUP, LLC 16005 Frederick Road, 2nd Floor Woodbine, MD 21797 Phone: 443.325.5076 Fax: 410.696.2022 Email: info@sillengineering.com Civil Engineering for Land Development	DESIGN BY: MPO
		DRAWN BY: MPO
		CHECKED BY: PS
		SCALE: AS SHOWN
		DATE: JULY 6, 2022
		PROJECT #: 18-053
		SHEET #: 9 of 9

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED BIORETENTION FACILITIES (F-6)

- THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.1 AND 2.
- THE OWNER SHALL PERFORM A PLANT INSPECTION IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD OR DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS, AND REPLACE ALL DEFICIENT STAKES AND WIRES.
- THE OWNER SHALL INSPECT THE MULCH EACH SPRING. THE MULCH SHALL BE REPLACED EVERY TWO TO THREE YEARS. THE PREVIOUS MULCH LAYER SHALL BE REMOVED BEFORE THE NEW LAYER IS APPLIED.
- THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER EACH HEAVY STORM.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <i>Chad Edmondson</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 10/24/2022	APPROVED: FOR PRIVATE WATER AND PRIVATE SEWAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY <i>Michael J. Davis</i> COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT DATE: 10/26/2022
CHIEF, DIVISION OF LAND DEVELOPMENT <i>Roy Stancu</i> DIRECTOR DATE: 10/26/2022	

NO.	DESCRIPTION	DATE