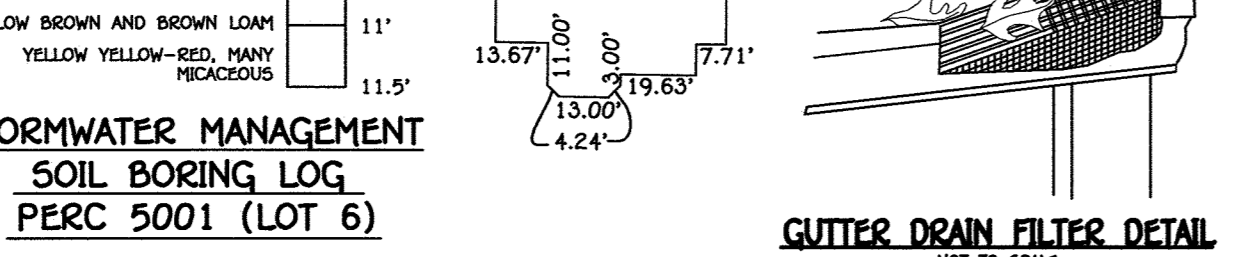


SHEET INDEX	
SHEET NO.	DESCRIPTION
1	SITE DEVELOPMENT PLAN
2	SEDIMENT & EROSION CONTROL NOTES & DETAILS & SWM SPECS.
3	ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN

ROADWAY INFORMATION CHART			
ROAD NAME	CLASSIFICATION	DESIGN SPEED	EASEMENT WIDTH
MAPLE LEAF WAY	USE-IN-COMMON	15 MPH	36' - 40'

SOILS LEGEND			
SOIL	NAME	CLASS	K. FACTOR
GgB	Glenelig loam, 3 to 8 percent slopes	B	0.20

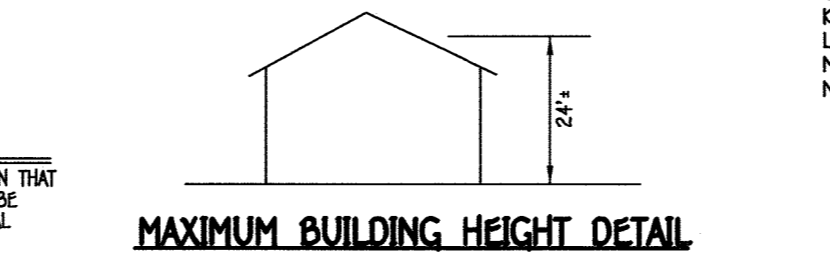
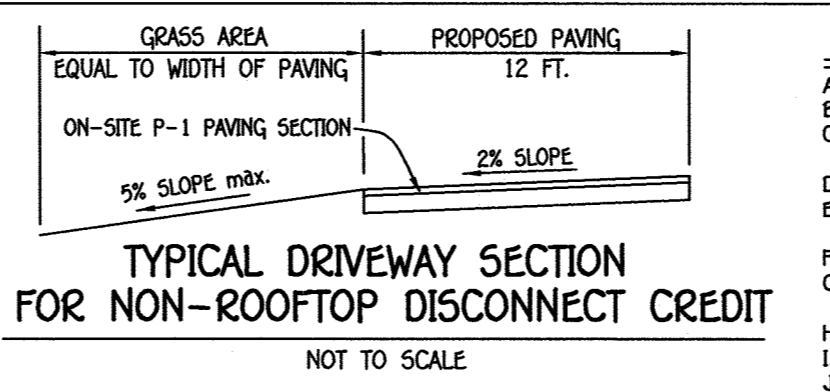


STORMWATER MANAGEMENT NOTES

- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
- MAXIMUM CONTROLLING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
- DRIVEWAY AREA IS BEING TREATED BY NON-ROOFTOP DISCONNECTION (N-2), AND THE PROPOSED HOUSE IS BEING TREATED BY A MICRO-BIORETENTION FACILITY (M-6). THE DETAIL IS SHOWN ON THIS SHEET.
- FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.

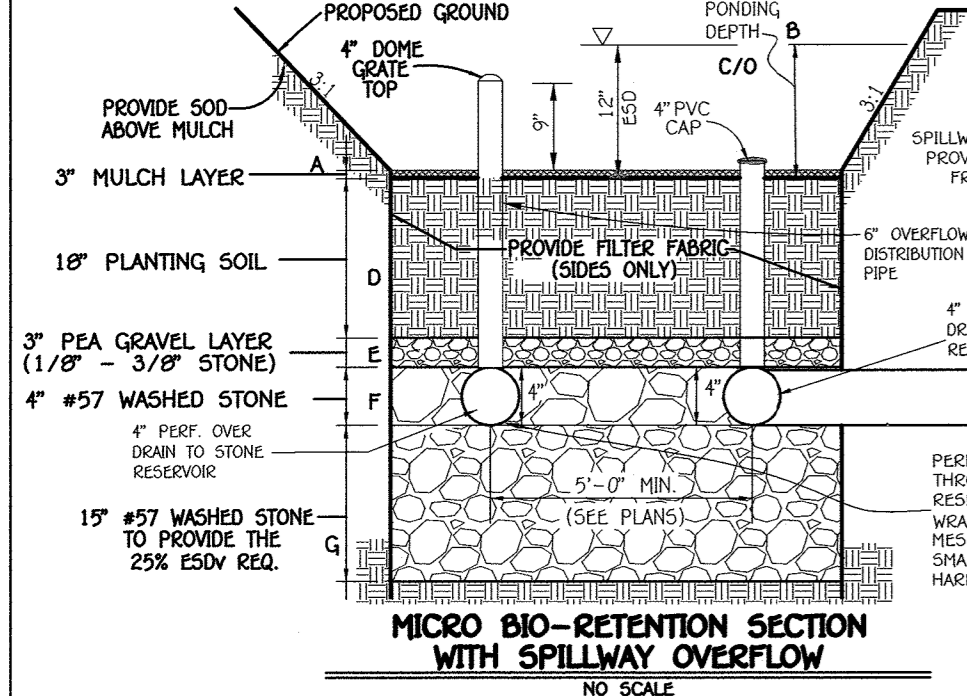
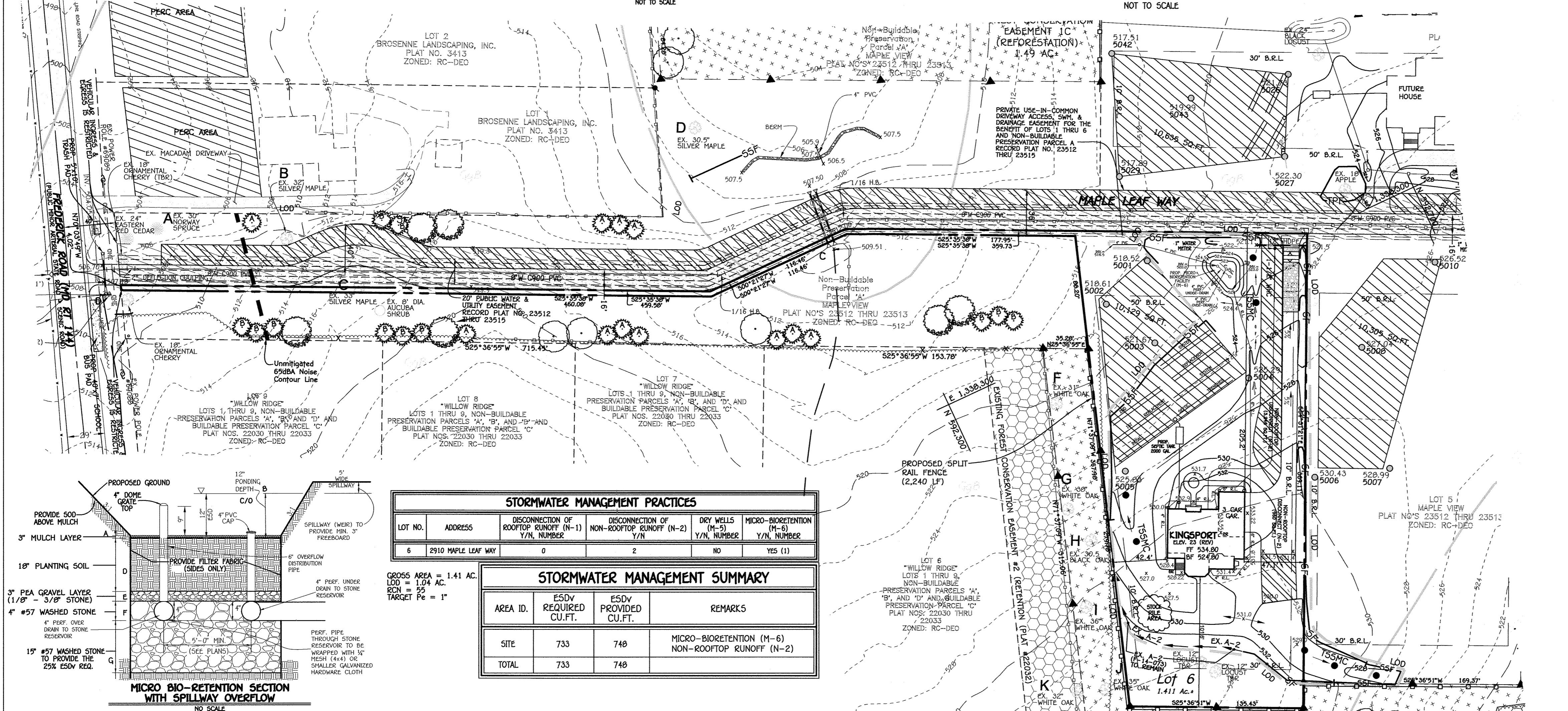
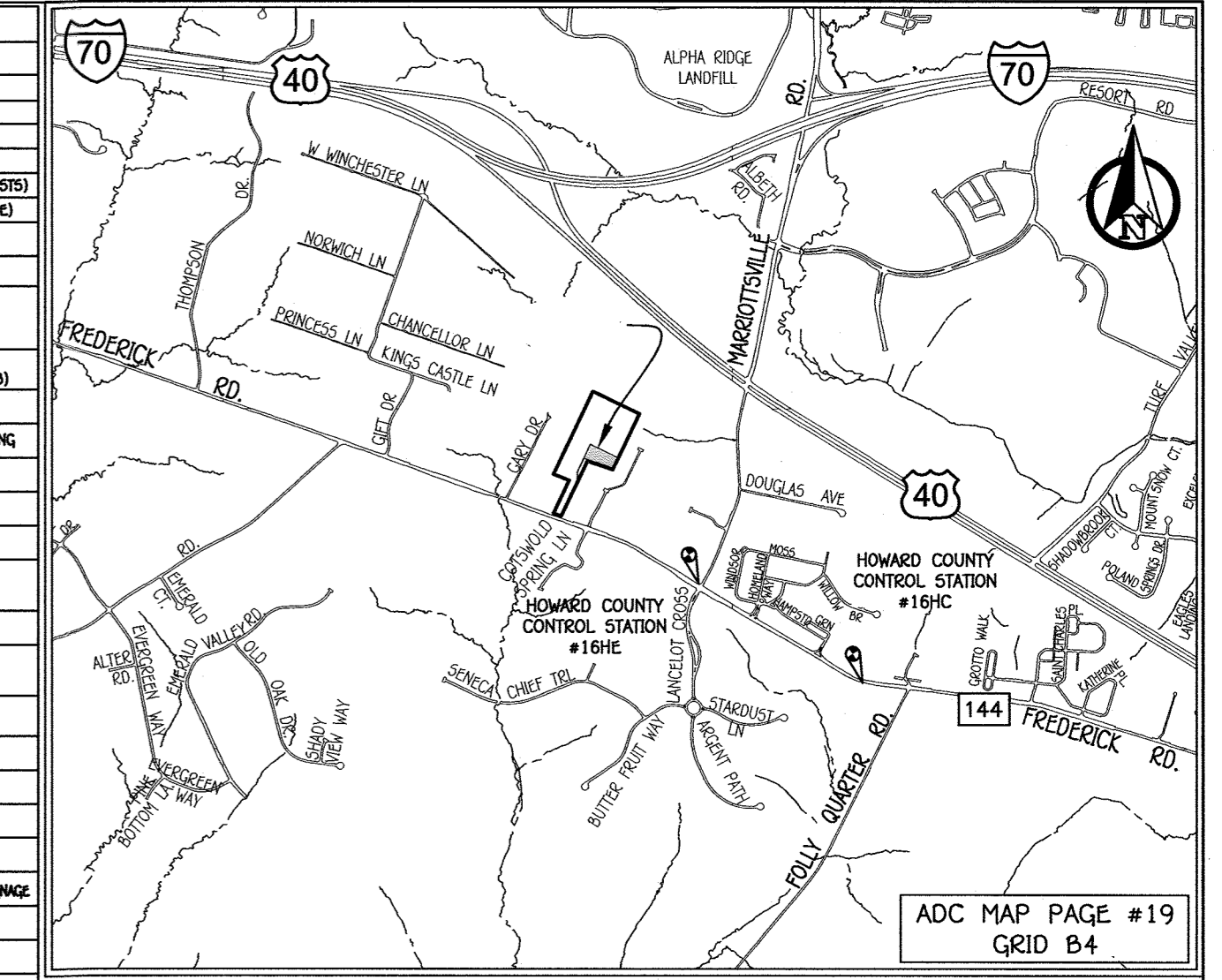
OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED, DISCONNECTION OF NON-ROOFTOP RUNOFF (N-2)

1. MAINTENANCE OF AREAS RECEIVING DISCONNECTION RUNOFF IS GENERALLY NO DIFFERENT THAN THAT REQUIRED FOR OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM OTHER LAWN OR LANDSCAPED AREAS. THE AREAS RECEIVING RUNOFF SHOULD BE PROTECTED FROM FUTURE CONSTRUCTION OR DEVELOPMENT OF ADJACENT AREAS. FOOT TRAFFIC SHOULD BE DISCOURAGED AS WELL.



SITE ANALYSIS DATA CHART	
A.	TOTAL AREA OF THIS SUBMISSION = 1.411 AC.
B.	LIMIT OF DISTURBED AREA = 49,310 SQ. FT. OR 1.04 AC.
C.	PRESENT ZONING DESIGNATION = RC-DEO
D.	PROPOSED USE: RESIDENTIAL
E.	PREVIOUS HOWARD COUNTY FILES: F-76-053, (PLAT #3413); F-98-65, (PLAT #13163), ECP-14-018, F-14-073 & F-14-073S.
F.	TOTAL AREA OF FLOODPLAIN LOCATED ON-SITE = 0.00 AC
G.	TOTAL AREA OF MODERATE STEEP SLOPES (15% TO 24.9%) = 0.00 AC
H.	TOTAL AREA OF STEEP SLOPES (25% OR GREATER) = 0.00 AC
I.	TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC
J.	TOTAL AREA OF STREAM (INCLUDING BUFFER) = 0.00 AC
K.	TOTAL AREA OF ERODIBLE SOILS = 0.00 AC
L.	TOTAL GREEN OPEN AREA = 1.251 AC
M.	TOTAL IMPERVIOUS AREA = 0.16 AC
N.	TOTAL AREA OF ROAD DEDICATION = 0.00 AC

LEGEND	
SYMBOL	DESCRIPTION
(Symbol)	EXISTING 2" CONTOUR
(Symbol)	EXISTING 5" CONTOUR
(Symbol)	PROPOSED CONTOUR
(Symbol)	SPOT ELEVATION
(Symbol)	EX. FENCE LINE (WOODEN WIRE & METAL POSTS)
(Symbol)	EX. FENCE LINE (SPLIT RAIL OR SLAT FENCE)
(Symbol)	EX. LIMIT OF TREES AND FOREST
(Symbol)	PROPOSED TREZINE
(Symbol)	EXISTING TREES
(Symbol)	ROOFTOP DISCONNECTION (N-1) & SHEET PILING TO NEAR CONCRETE AREA (N-3)
(Symbol)	NON-ROOFTOP DISCONNECTION (N-2)
(Symbol)	EXISTING ROAD & PROPOSED DRIVEWAY FRINGE
(Symbol)	EXISTING FOREST CONSERVATION EASEMENT (REFORESTATION)
(Symbol)	EXISTING FOREST CONSERVATION EASEMENT (RETENTION)
(Symbol)	EXISTING 4" PROPOSED SEPTIC CASING
(Symbol)	SOIL LINES AND TYPES
(Symbol)	PUBLIC WATER AND UTILITY EASEMENT
(Symbol)	PRIVATE USE-IN-COMMON DRIVEWAY ACCESS STORMWATER MANAGEMENT & DRAINAGE EASEMENT
(Symbol)	LIMITS OF DISTURBANCE
(Symbol)	EXISTING DRIVEWAY TO BE REMOVED
(Symbol)	STABILIZED CONSTRUCTION ENTRANCE
(Symbol)	TREE PROTECTIVE FENCING
(Symbol)	SIZING BUFFER
(Symbol)	PROPOSED FOREST CONSERVATION EASEMENT SIGNAGE
(Symbol)	SILT FENCE
(Symbol)	SURGE SILT FENCE
(Symbol)	EARTH OCE
(Symbol)	EROSION CONTROL MATING
(Symbol)	SPECIMEN TREE
(Symbol)	PROPOSED PERMANENT TREE PROTECTIVE FENCING
(Symbol)	GENOTIS PASSED PERC HOLES
(Symbol)	EXISTING LANDSCAPE TREES PER F-14-073

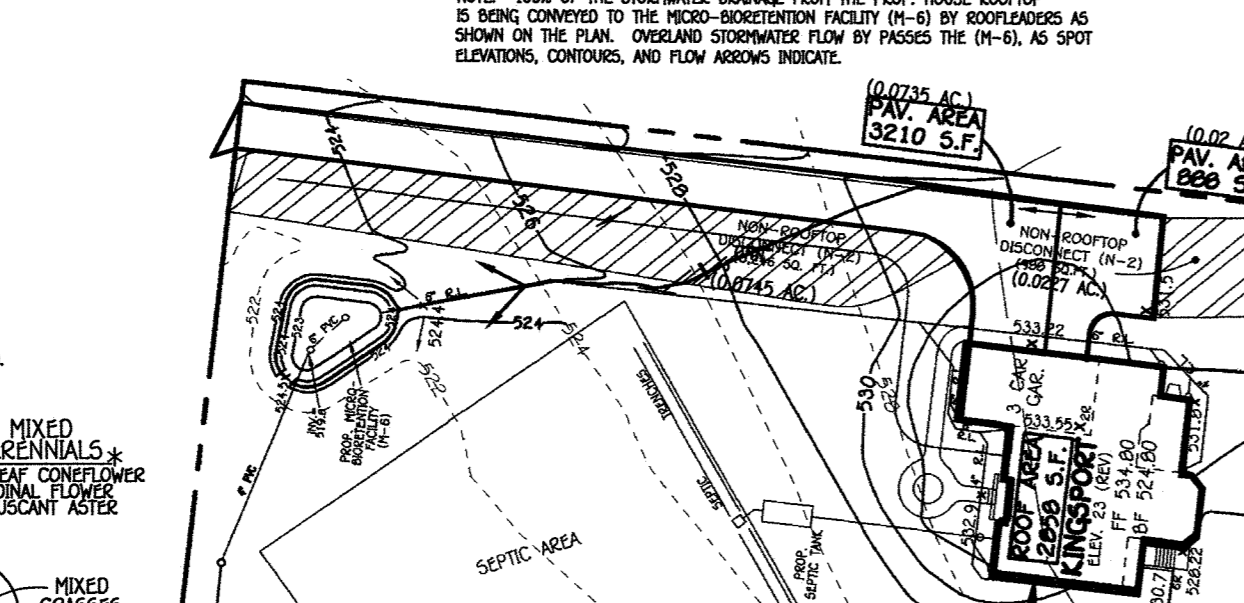


STORMWATER MANAGEMENT PRACTICES			
LOT NO.	ADDRESS	DISCONNECTION OF ROOFTOP RUNOFF (N-1) Y/N, NUMBER	NON-ROOFTOP RUNOFF (N-2) Y/N, NUMBER
6	2910 MAPLE LEAF WAY	0	2

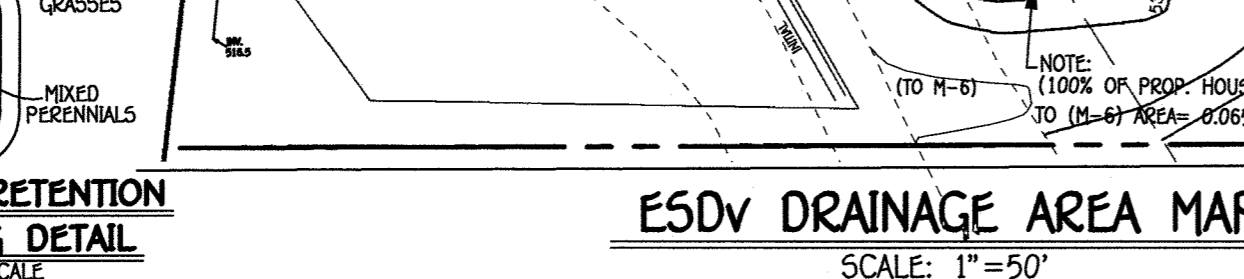
STORMWATER MANAGEMENT SUMMARY			
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARKS
SITE	733	748	MICRO-BIORETENTION (M-6)
TOTAL	733	748	NON-ROOFTOP RUNOFF (N-2)

OPERATION & MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-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 DECOMPOSITION 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: 2009 MARYLAND STORMWATER DESIGN MANUAL VOLUME 8, TABLE A.1.1 AND 2.
- THE OWNER SHALL PERFORM A PART IN THE SPRING AND IN THE FALL OF EACH YEAR. DURING THE INSPECTION, THE OWNER SHALL REMOVE DEAD AND DISEASED PLANT MATERIAL BEYOND TREATMENT, REPLACE DEAD PLANT MATERIAL WITH ACCEPTABLE REPLACEMENT PLANT MATERIAL, TREAT DISEASED TREES AND SHRUBS AND REPLACE ALL DEFICIENT GRASSES AND WEEDS.
- 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.



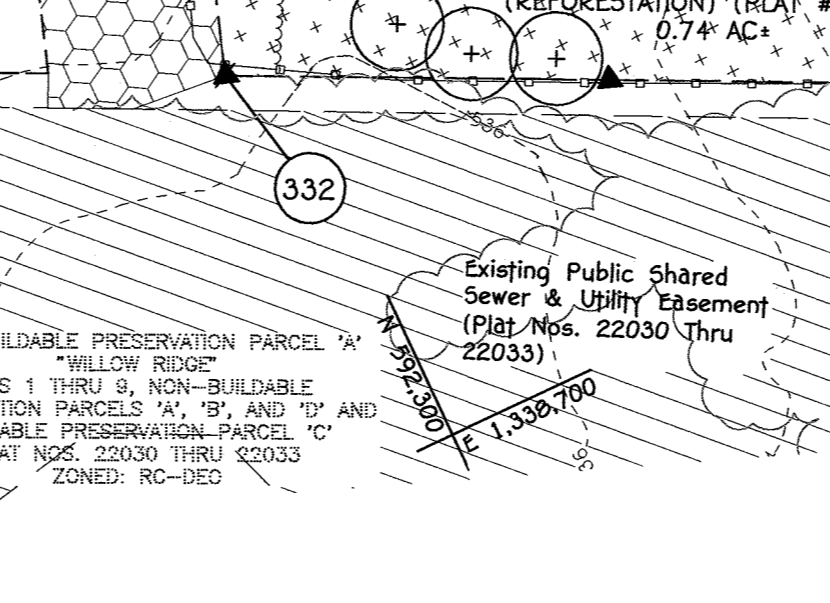
MICRO-BIORETENTION FACILITY PLANTING		
QUANTITY	NAME	MAXIMUM SPACING (FT.)
54	MIXED PERENNIALS	1 FT.
48	SHRUBS, MIXED GRASSES	2 FT.



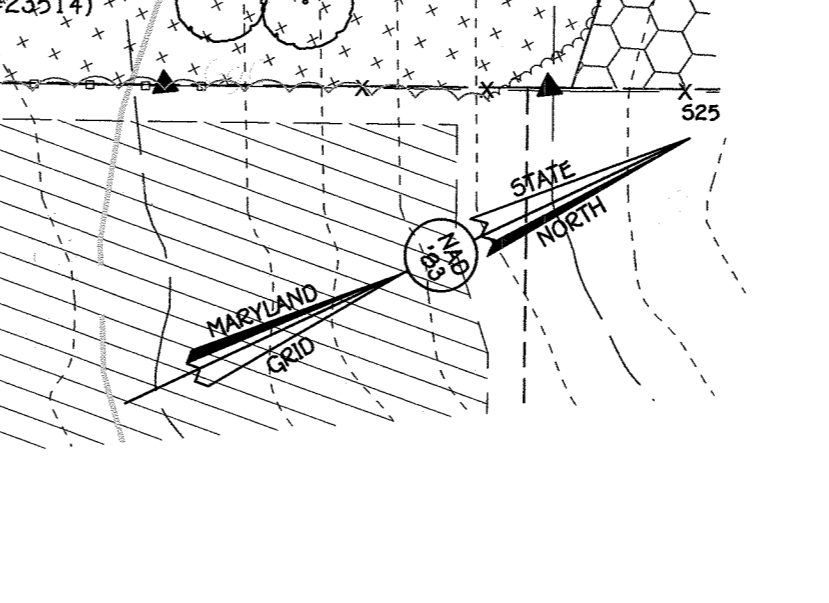
PROFESSIONAL CERTIFICATE

I certify that this plan for erosion and sediment 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 Professional Engineer: *Stephen J. Tuttle* 6/16/19
STEPHAN J. TUTTLE
LICENSE NO. 30396
EXPIRATION DATE: 11/12/2020



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
6	2910 MAPLE LEAF WAY



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. 30396, EXPIRATION DATE: 01/12/2020.

Signature of Professional Engineer: *Stephen J. Tuttle* 6/16/19
STEPHAN J. TUTTLE
DATE

PLAT	GRID NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
23512 - 23515	15	RC-DEO	16	3	6030.04

This Development Plan is approved for Soil Erosion and Sediment Control by the HOWARD SOIL CONSERVATION DISTRICT.

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Signature: *John C. Blanton* 6/12/19
John C. Blanton
HOWARD SCD

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Signature: *Stephanie J. Tuttle* 6/12/19
Stephanie J. Tuttle
COUNTY HEALTH OFFICER

SITE DEVELOPMENT PLAN

MAPLE VIEW
LOT 6
ZONED RC-DEO

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK
ELLIOTT CITY, MARYLAND 21042
(410) 461-2895

NO.	REVISION	DATE

BUILDER/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 any 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: *Arundathi Bobbala*
Date

OWNERS

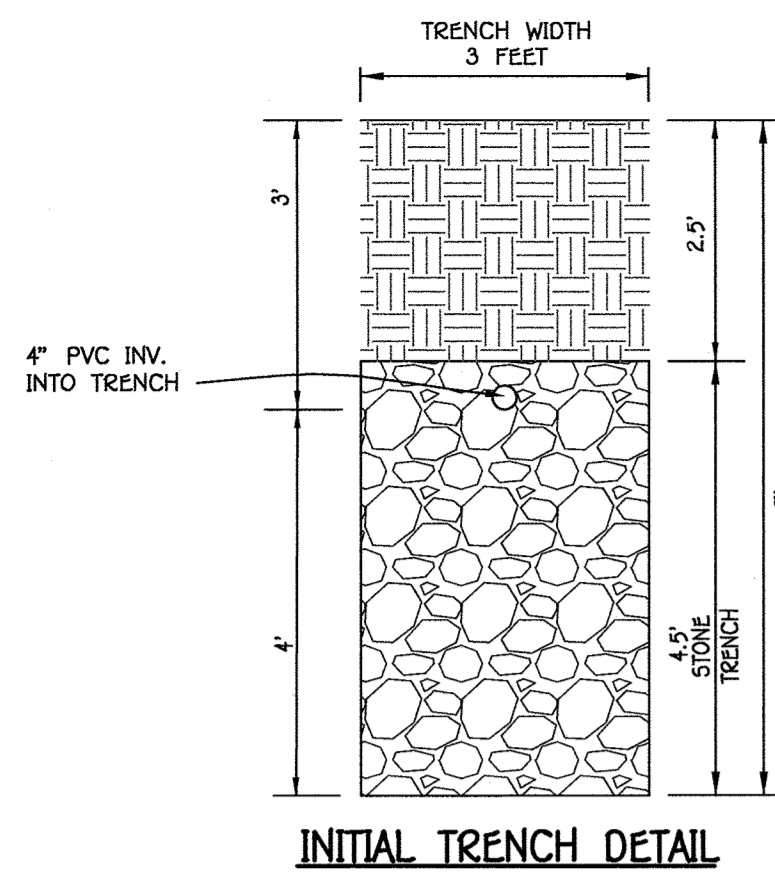
ARUNDATHI BOBBALA
REDDY RAJI REKULA
2109 HARROW DR.
WOODSTOCK, MD 21163
443-250-4061

BUILDER/DEVELOPER

CARUSO HOMES
2120 BALDWIN AVENUE
SUITE 200
CROFTON, MARYLAND 21114
301-832-6426

MAPLE VIEW	SECTION	LOT NO.
	N/A	LOT 6

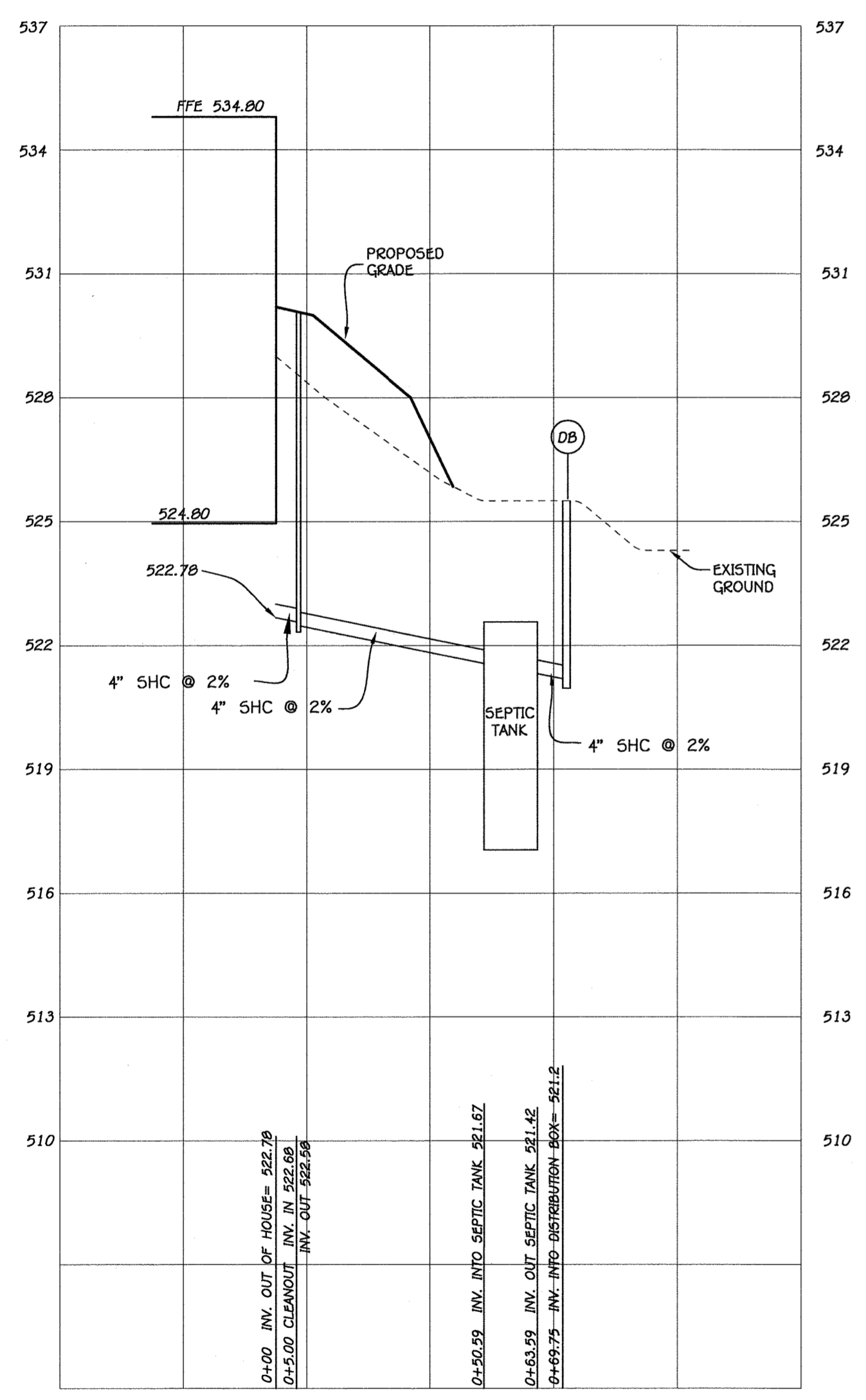
TAX MAP NO. 16 GRID NO. 15 P/O PARCEL NO. 89
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: JUNE 5, 2019
SHEET 1 OF 3



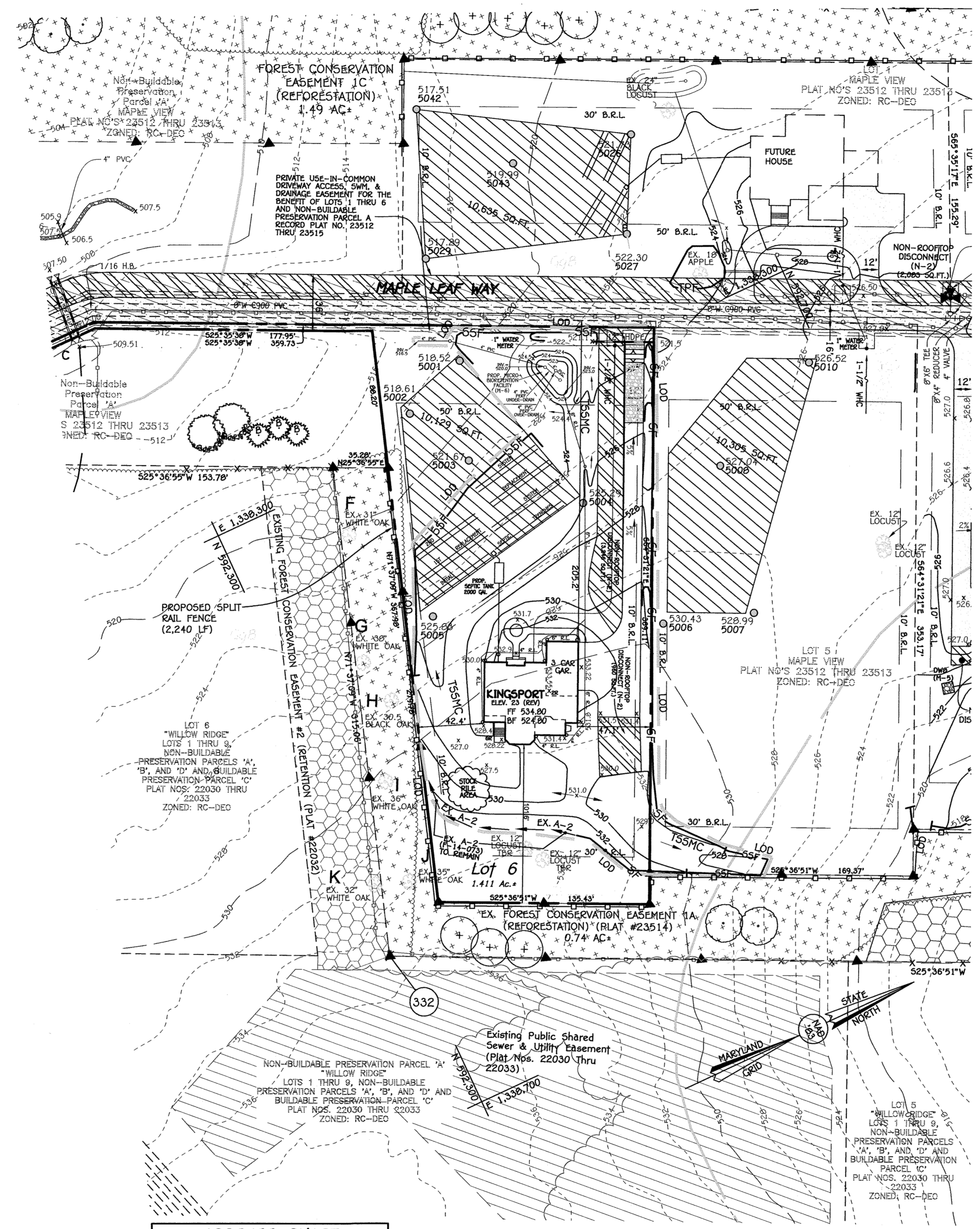
FFE 532.80
 BSE 524.80
 INV. OUT OF HOUSE = 522.78
 PROP. GROUND AT CLEANOUT #1 = 531.2
 INV. INTO CLEANOUT = 522.88
 EX. GROUND AT SEPTIC TANK = 525.5
 PROP. GRADE ABOVE SEPTIC TANK = 525.5
 TOP OF SEPTIC TANK = 522.67
 INV. INTO SEPTIC TANK = 521.67
 INV. OUT OF SEPTIC TANK = 521.42
 EX. GROUND AT DISTRIBUTION BOX = 524.2
 INV. INTO DISTRIBUTION BOX = 521.3
 INV. OUT OF DISTRIBUTION BOX = 521.2

TRENCH DATA:
 TRENCH 1:
 EX. GROUND ABOVE = 524.2
 INV. IN = 521.2
 BOTTOM TRENCH = 517.2
 TRENCH 2:
 EX. GROUND ABOVE = 524.2
 INV. IN = 521.2
 BOTTOM TRENCH = 517.2

INITIAL TRENCH DETAIL
 SCALE: 1"=2'

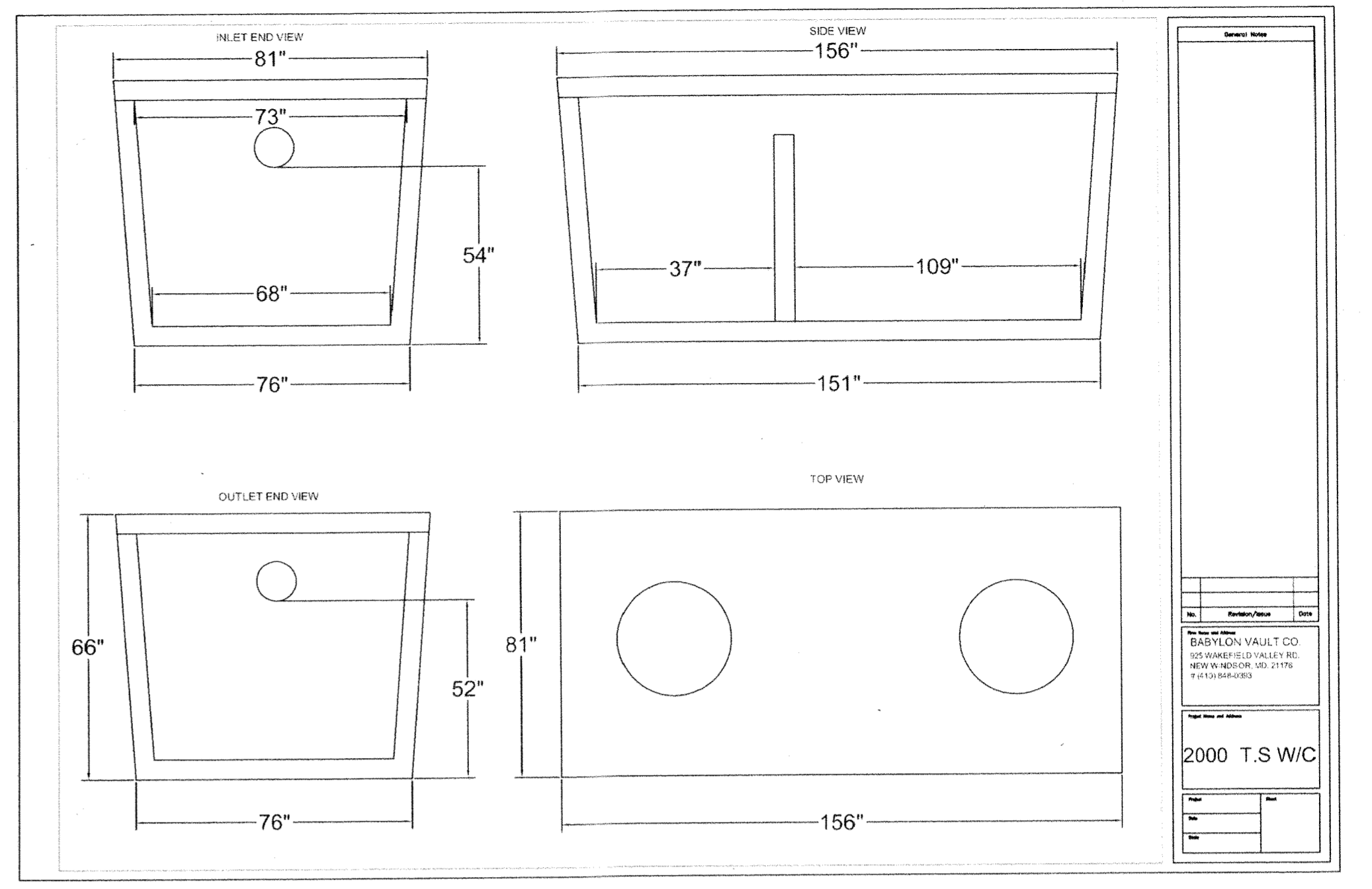
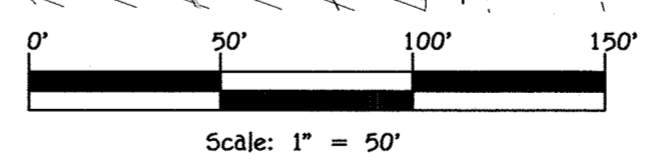


SEPTIC PROFILE
 SCALE: 1"=30'



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
6	2910 MAPLE LEAF WAY

PLAN VIEW
 SCALE: 1"=50'



INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 4 FEET
 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 3 FEET
 SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.5
 TRENCH LENGTH = 208.33 SF x 0.5 = 104.17 FEET
 TRENCH SPACING = 2D+W = (2x3) + 3 = 9' USE 10'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 4 FEET
 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 3 FEET
 SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.5
 TRENCH LENGTH = 208.33 SF x 0.5 = 104.17 FEET
 TRENCH SPACING = 2D+W = (2x3) + 3 = 9' USE 10'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS
 APPLICATION RATE = 0.8
 EFFECTIVE SIDEWALL BEGINS AT 3.5 FEET
 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 3.5 FEET
 SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3.5)) = 0.45
 TRENCH LENGTH = 312.50 SF x 0.45 = 140.63 FEET
 TRENCH SPACING = 2D+W = ((2x3) + 3) = 9' USE 10'

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- PUBLIC WATER SERVICE WILL BE UTILIZED FOR LOT 6.
- WHEN THE BUILDING PERMIT FOR THIS LOT IS SUBMITTED, A COPY OF THE FLOOR PLANS FOR HEALTH DEPARTMENT REVIEW SHALL BE INCLUDED IN THE APPLICATION PACKET PER HOWARD COUNTY DLP GUIDANCE. THE HEALTH DEPARTMENT SHALL EVALUATE THE FLOOR PLANS FOR COMPLIANCE WITH HOWARD COUNTY CODE DEFINITION OF BEDROOM (3.801(B)). REVISIONS OF FLOOR PLANS SHALL BE REQUIRED BY THE HEALTH DEPARTMENT SHOULD THE PROPOSED NUMBER OF ROOMS MATCHING THE DEFINITION OF BEDROOM EXCEED THE DESIGN CAPACITY OF THE SEPTIC SYSTEM APPROVED IN THIS DOCUMENT (SDP-19-042). SHOULD THE DEVELOPER REQUIRE A GREATER NUMBER OF BEDROOMS, A REDLINE REVISION SHALL BE REQUIRED FOR SDP-19-042.

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK
 ELLICOTT CITY, MARYLAND 21142
 (410) 461-2995



PROFESSIONAL CERTIFICATE
 I certify that this plan for erosion and sediment 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 Professional Engineer: Stephanie J. Tuttle
 License No. 38396
 EXPIRATION DATE: 1/12/2020
 Date: 6/16/19

BUILDER/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 any 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: [Signature]
 Date: [Date]

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. 38386, EXPIRATION DATE: 01/12/2020.
 Signature: Stephanie J. Tuttle
 Date: 6/16/19

OWNERS: ARUNDATHI BOBBALA, REDDY RAJI REKULA, 2109 HARROW DR, WOODSTOCK, MD 21163, 443-250-4061
 BUILDER/DEVELOPER: CARUSO HOMES, 2120 BALDWIN AVENUE, SUITE 200, CROFTON, MARYLAND 21114, 301-832-6426

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Developments: [Signature] Date: 7-16-19
 Chief, Development Engineering Division: [Signature] Date: 7-16-19
 Director - Department of Planning and Zoning: [Signature] Date: 7-16-19

PROJECT	SECTION	LOT NO.
MAPLE VIEW	N/A	LOT 6

PLAT	GRID NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
23512 - 23515	15	RC-DEO	16	3	6030.04

ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
 MAPLE VIEW
 LOT 6
 ZONED RC-DEO
 TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 208
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JUNE 5, 2019
 SHEET 3 OF 3