

Bureau of Environmental Health
 8930 Stanford Boulevard, Columbia, MD 21045
 Main: 410-313-2640 | Fax: 410-313-2648
 TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
 Facebook: www.facebook.com/hocohealth

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 11-12-19 **ONSITE SEWAGE DISPOSAL SYSTEM** P Side 456-1

APPROVAL DATE: _____ **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 2910 MAPLE LEAF WAY, ELICOTT CITY, MD 21042

SUBDIVISION: MAPLE VIEW LOT: 6 TAX ID: 03-598

CONTRACTOR: J & A Construction Services EMAIL: _____

CONTRACTOR ADDRESS: 7991 Bennett Branch Road, Mount Airy, MD 21771 PHONE: 410-635-2484

PROPERTY OWNER: REKULA REDDY EMAIL: _____

OWNER ADDRESS: 2109 HARROLD DRIVE, WOODSTOCK, MD 21163 PHONE: (443)250-4061

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: BABYLON

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>3.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: R BRICKER ISSUE DATE: 11/12/19 EXPIRATION DATE: 11/12/20

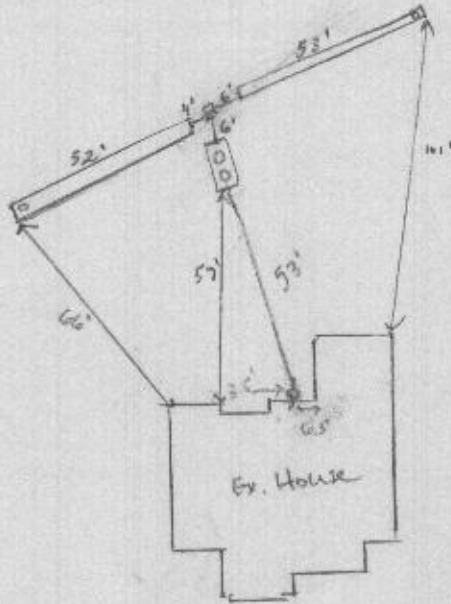
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM
- ELECTRICAL PERMIT ISSUED E n.a.
- NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE

Maple leaf

-public water



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	7'

NUMBER OF TRENCHES 2
 TOTAL LENGTH 105'
 ABSORPTION AREA 315 sq ft + sidewalk
 DISTRIBUTION BOX LEVEL yes
 DISTRIBUTION BOX BAFFLE yes
 DISTRIBUTION BOX PORT —

SEPTIC TANK DATA

SEPTIC TANK I LEVEL yes
 MANUFACTURER Babylon
 CAPACITY 2000 GAL
 SEAM LOC top
 TANK LID DEPTH 3'
 BAFFLES front + back
 BAFFLE FILTER —
 MANHOLE LOC front + back
 6" PORT LOC —
 WATERTIGHT TEST —
 SLOTTED yes
 DATE ON LID 11-4-19

PUMP/SEPTIC TANK LEVEL

MANUFACTURER _____
 CAPACITY _____ GAL
 SEAM LOC _____
 TANK LID DEPTH _____
 BAFFLES _____
 BAFFLE FILTER _____
 MANHOLE LOC _____
 6" PORT LOC _____
 WATERTIGHT TEST _____
 SLOTTED _____
 DATE ON LID _____

ROAD NAME

PRE-CONSTRUCTION:

12/3/2019 SEWER OUT MOVED TO OTHER SIDE OF PORCH (Boulder).
 SDA, TANK STAKED. LAID OUT 2x52' TRENCH. OK TO START (S)

INSTALLATION:

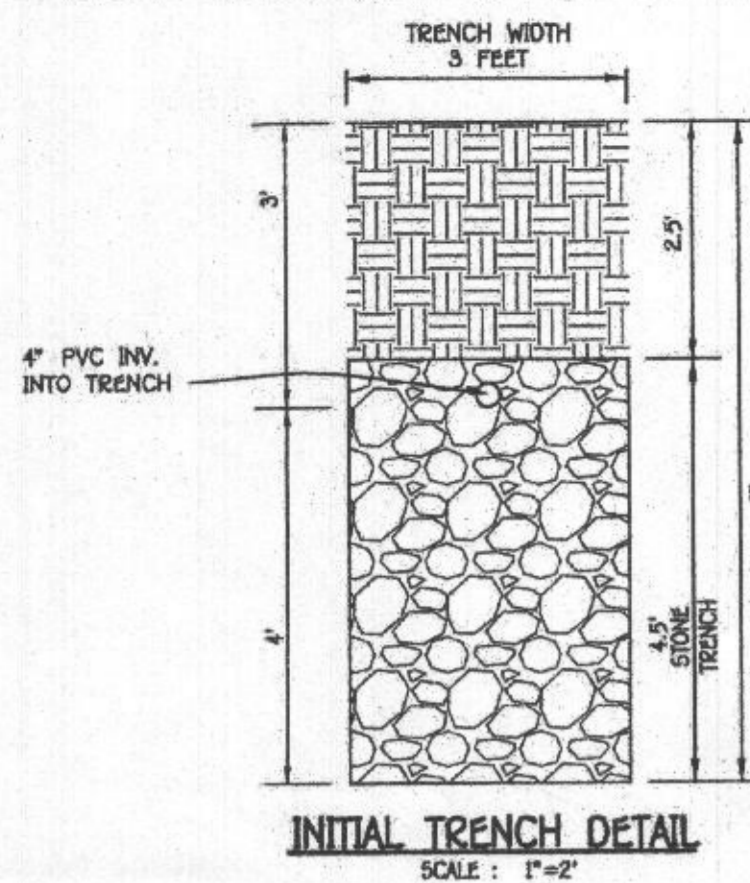
12/12/19 Set tank in ground and SHC. OK to backfill.
 Re-inspect for baffles. (S) 12/18/19 Trenches constructed and d-box
 connected. OK to backfill. (S)

FINAL INSPECTOR

Juan Thomas

DATE OF APPROVAL

12/18/19



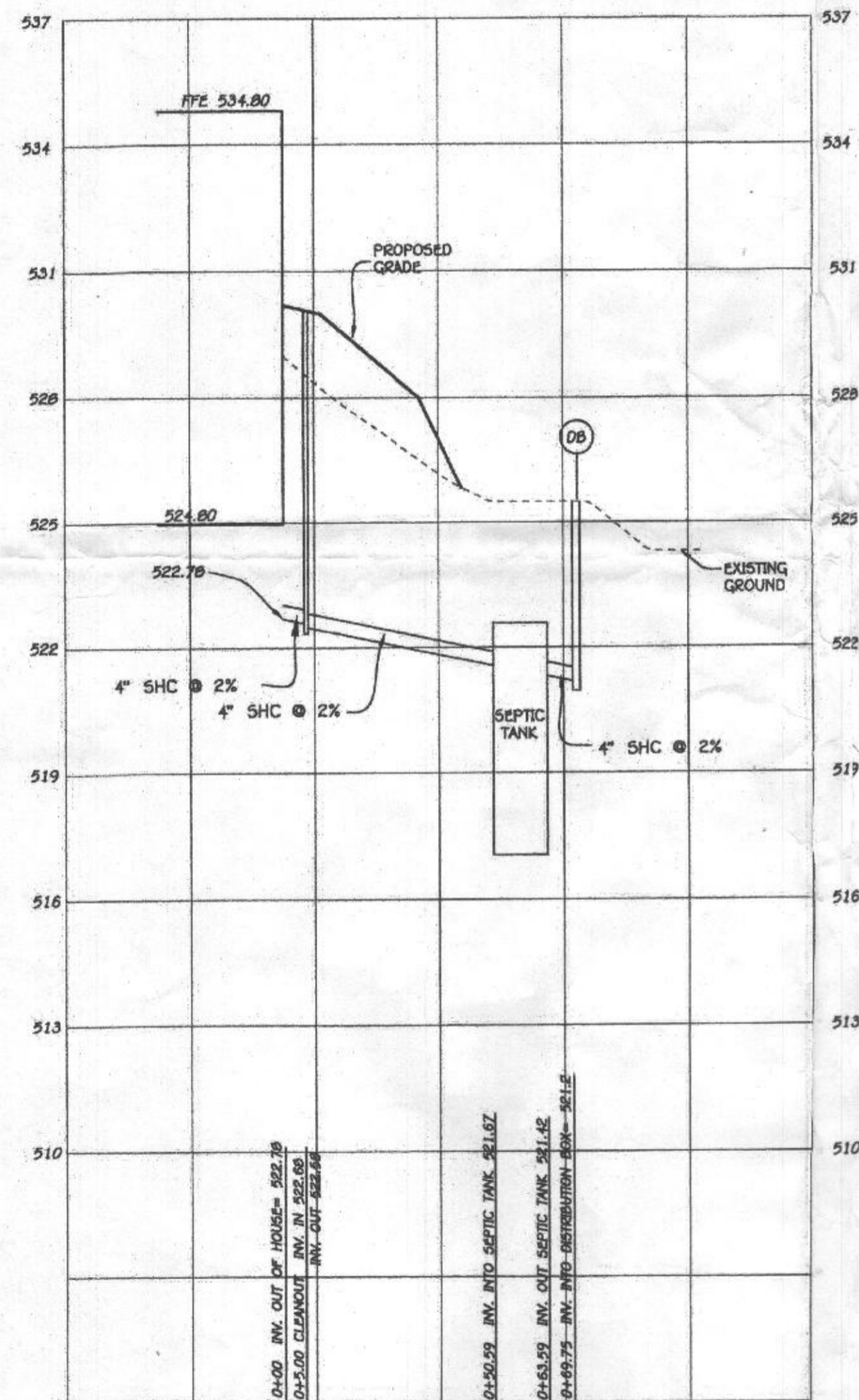
FFE 532.80
 BSE 524.80
 INV. OUT OF HOUSE = 522.78
 PROP. GROUND AT CLEANOUT #1 = 531.2
 INV. INTO CLEANOUT = 522.68
 INV. OUT OF CLEANOUT = 522.58
 EX. GROUND AT SEPTIC TANK = 525.5
 PROP. GRADE ABOVE SEPTIC TANK = 525.5
 TOP OF SEPTIC TANK = 522.67
 INV. INTO SEPTIC TANK = 521.67
 INV. OUT OF SEPTIC 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:

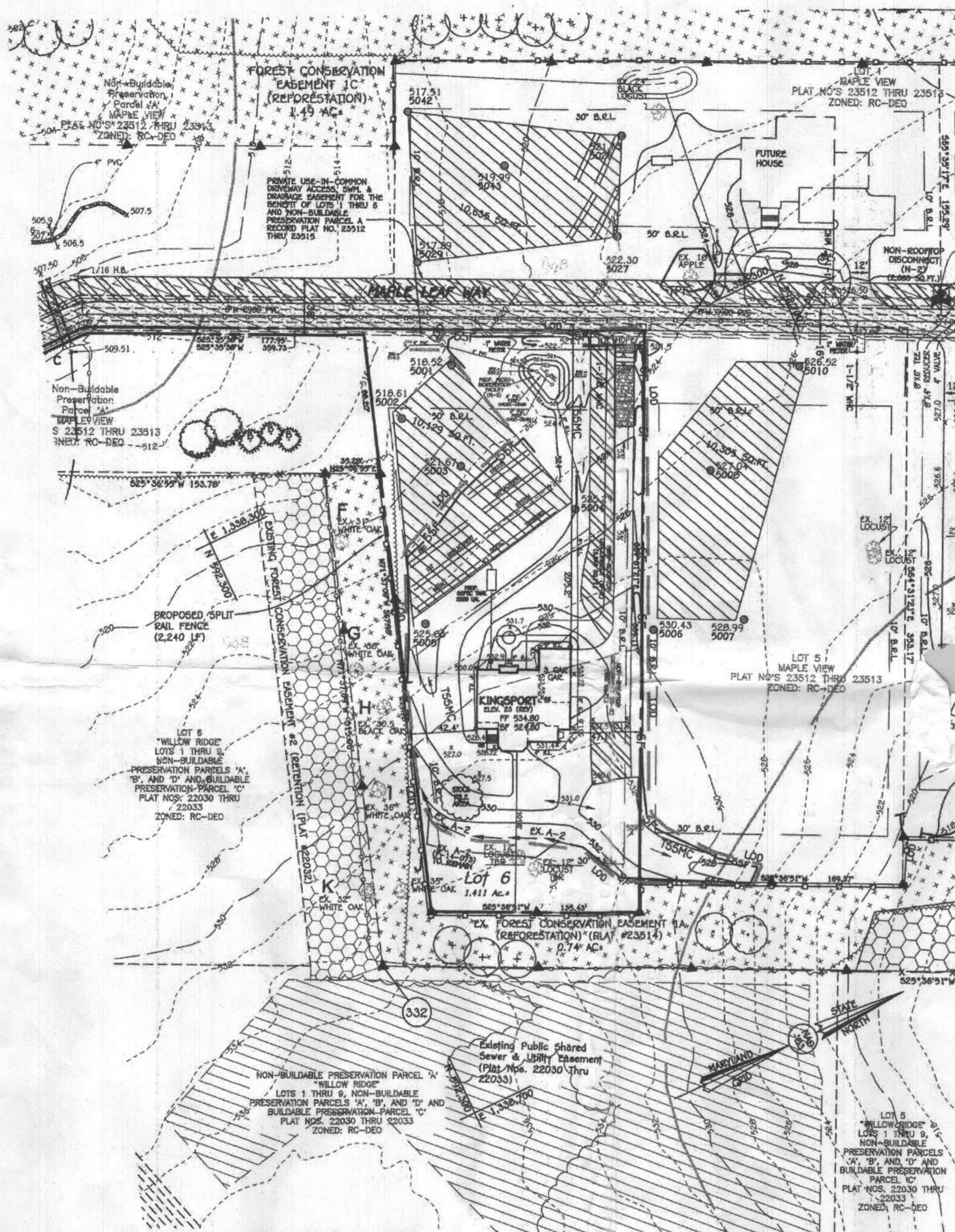
TRENCH 1:
 EX. GROUND ABOVE = 524.2
 INV. IN = 521.2
 BOTTOM TRENCH = 517.2

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

INITIAL TRENCH DETAIL
 SCALE: 1"=2'

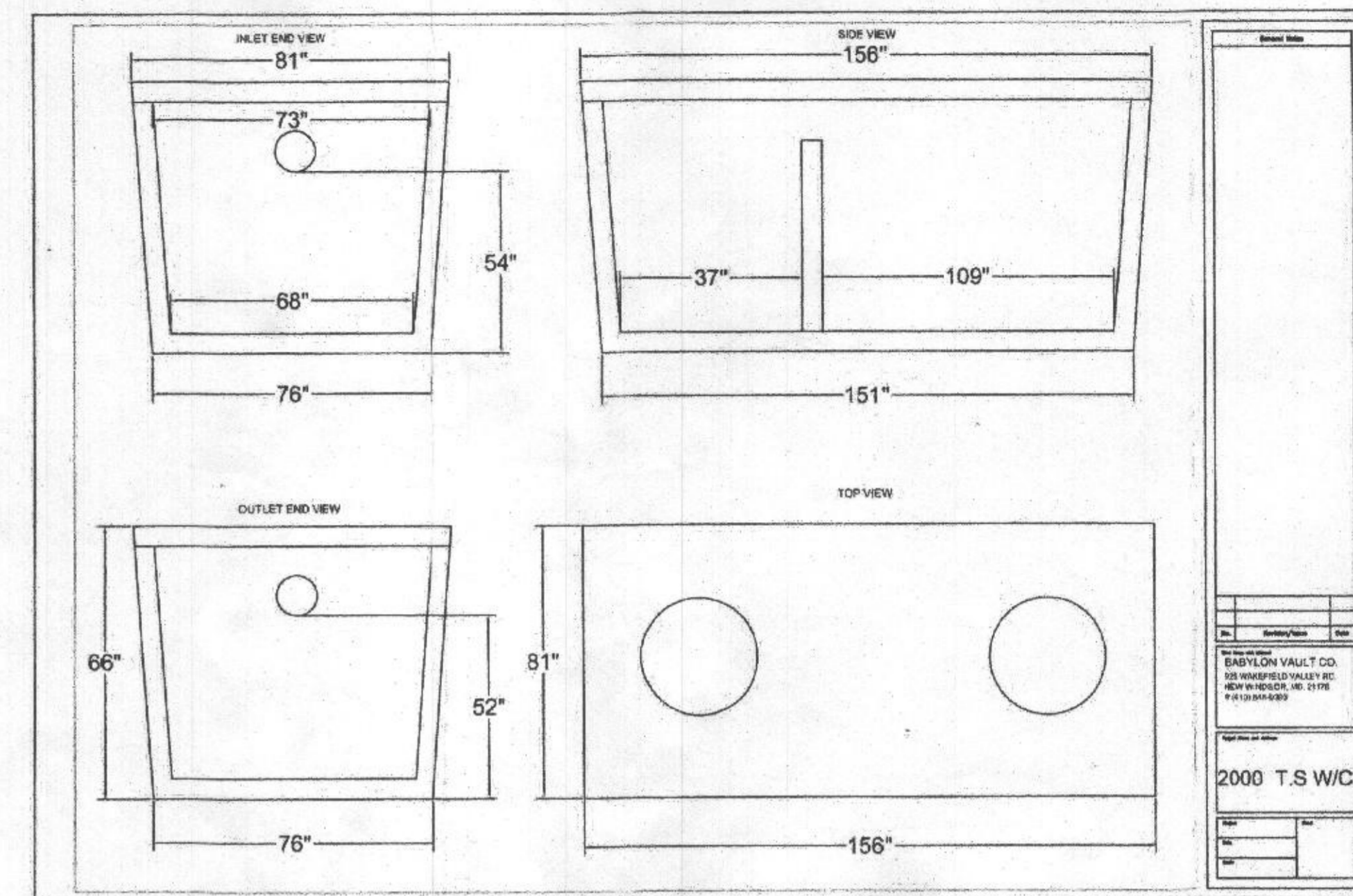


SEPTIC PROFILE
 SCALE: 1"=30'



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
6	2910 MAPLE LEAF WAY

PLAN VIEW
 SCALE: 1"=50'



INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 2 BEDROOMS
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
 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+2(3)) = 0.5
 TRENCH LENGTH = 208.33 SF x 0.5 = 104.17 FEET (USE 2 TRENCHES AT 52.08 LF.)
 TRENCH SPACING = 2D+W = (2(3) + 3) = 9' USE 10'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 2 BEDROOMS
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
 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+2(3.5)) = 0.5
 TRENCH LENGTH = 312.5 SF x 0.5 = 156.25 FEET (USE 3 TRENCHES AT 46.66 LF.)
 TRENCH SPACING = 2D+W = 2(3.5) + 3 = 9' USE 10'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
 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+2(3)) = 0.5
 TRENCH LENGTH = 208.33 SF x 0.5 = 104.17 FEET (USE 2 TRENCHES AT 52.08 LF.)
 TRENCH SPACING = 2D+W = (2(3) + 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. RECORDED OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- PUBLIC WATER SERVICE WILL BE UTILIZED 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 OHP 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 (SOP-19-042). SHOULD THE DEVELOPER REQUIRE A GREATER NUMBER OF BEDROOMS, A REDLINE REVISION SHALL BE REQUIRED FOR SOP-19-042.

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.
Stephan J. Tuttle
 COUNTY HEALTH OFFICER
 DATE: 7/2/19

FISHER, COLLINS & CARTER, INC.
 CIVIL, ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10672 BALDWIN AVENUE
 ELICOTT CITY, MARYLAND 21041
 (410) 411-2995



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."

Stephan J. Tuttle 6/6/19
 Signature of Professional Engineer
 STEPHAN J. TUTTLE
 LICENSE NO. 36386
 EXPIRATION DATE: 1/12/2020

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."

Stephan J. Tuttle
 Signature of Developer 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. 36386. EXPIRATION DATE: 01/12/2020.

Stephan J. Tuttle 6/6/19
 Signature of Professional Engineer
 STEPHAN J. TUTTLE DATE

OWNERS

ARUNDINE BOBOLA
 REDDY RAJ REKULA
 2109 HARBOR DR
 WOODSTOCK MD 21163
 443-250-4061

BUILDER/DEVELOPER

CARUSO HOMES
 2120 BALDWIN AVENUE
 SUITE 200
 CROFTON, MARYLAND 21114
 301-882-6426

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Veronica L. ... 7-16-19
 Chief, Division of Land Development
 Date
Stephan J. Tuttle 7-9-19
 Chief, Development Engineering Division
 Date
Stephan J. Tuttle 7-16-19
 Director - Department of Planning and Zoning
 Date

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

ONSITE SEWAGE DISPOSAL SYSTEM DESIGNS

MAPLE VIEW
 LOT 6
 ZONED RC-DEO

TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 0000
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: JUNE 5, 2019
 SHEET 3 OF 3