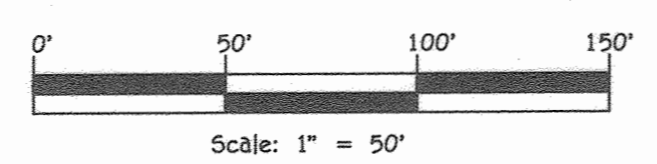


LEGEND	
SYMBOL	DESCRIPTION
(Symbol)	EXISTING 2' CONTOUR
(Symbol)	EXISTING 10' CONTOUR
(Symbol)	PROPOSED CONTOUR
(Symbol)	SPOT ELEVATION
(Symbol)	EX. FENCE LINE (WOODEN WIRE & METAL POSTS)
(Symbol)	EX. FENCE LINE (SPILT RAIL OR SLAT FENCED)
(Symbol)	EX. LIMIT OF TREES AND FOREST
(Symbol)	PROPOSED TREELINE
(Symbol)	EXISTING TREES
(Symbol)	ROOFTOP DISCONNECT (N-1) & SHEET PILE TO NEURAL CONSERVATION AREA (N-3)
(Symbol)	NON-ROOFTOP DISCONNECT (N-2)
(Symbol)	EXISTING ROAD & PROPOSED DRIVEWAY PAVING
(Symbol)	EXISTING FOREST CONSERVATION EASEMENT (REFORESTATION)
(Symbol)	EXISTING FOREST CONSERVATION EASEMENT (RETENTION)
(Symbol)	EXISTING & PROPOSED SEPTIC BASIN
(Symbol)	SOIL LINES AND TYPES
(Symbol)	PUBLIC WATER AND UTILITY EASEMENT
(Symbol)	PRIVATE USE-IN-CORPORATION DRIVEWAY ACCESS, STORMWATER MANAGEMENT & DRAINAGE EASEMENT
(Symbol)	LIMITS OF DISTURBANCE
(Symbol)	EXISTING DRIVEWAY TO BE REMOVED
(Symbol)	STABILIZES CONSTRUCTION ENTRANCE
(Symbol)	TREE PROTECTIVE FENCING
(Symbol)	STEEL BUTTRESS
(Symbol)	PROPOSED FOREST CONSERVATION EASEMENT SIGNAGE
(Symbol)	SILT FENCE
(Symbol)	SUPER SILT FENCE
(Symbol)	EXHIBIT DECK
(Symbol)	EROSION CONTROL MATTING
(Symbol)	SPECIMEN TREE
(Symbol)	PROPOSED PERMANENT TREE PROTECTIVE FENCING
(Symbol)	GENETICS PASSED PERC HOLES
(Symbol)	EXISTING LANDSCAPE TREES PER F-14-073

BORING #B-1 N.T.S.		BORING #B-2 N.T.S.	
EXISTING ELEV.	525.17	EXISTING ELEV.	521.76
PROP. ELEV.	523.91	PROP. ELEV.	521.26
DRYWELL BOTTOM	518.91	DRYWELL BOTTOM	516.26
BORING BOTTOM (NO ROCK OR WATER)	510.82	BORING BOTTOM (NO ROCK OR WATER)	507.75



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
3	2922 MAPLE LEAF WAY

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

Alexander Butcher 06/23/21
 Date

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

[Signature] For
 COUNTY HEALTH OFFICER H.O. DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALDROCK NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2995

NO.	REVISION	DATE
1	As-Built First Floor Common	9/29/22

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."

Frank J. Mandelbaum II 6/14/21
 Signature of Professional Land Surveyor Date
 Frank J. Mandelbaum II
 LICENSE NO. 21476
 EXPIRATION DATE: 7/14/2021

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."

Ehab Alalfey 5-27-21
 Signature of Developer Date

OWNERS/DEVELOPER
 EHAB ALALFEY
 6846 SEWELLS ORCHARD DRIVE
 COLUMBIA MD 21045
 240-801-6040

PROPERTY ADDRESS
 2922 MAPLE LEAF WAY
 ELLICOTT CITY MD 21043

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Department of Land Development *[Signature]* 7/8/21
 Date

Chief, Development Engineering Division *[Signature]* 8-2-21
 Date

Director - Department of Planning and Zoning *[Signature]*

PROJECT	SECTION	LOT NO.
MAPLE VIEW	N/A	LOT 3

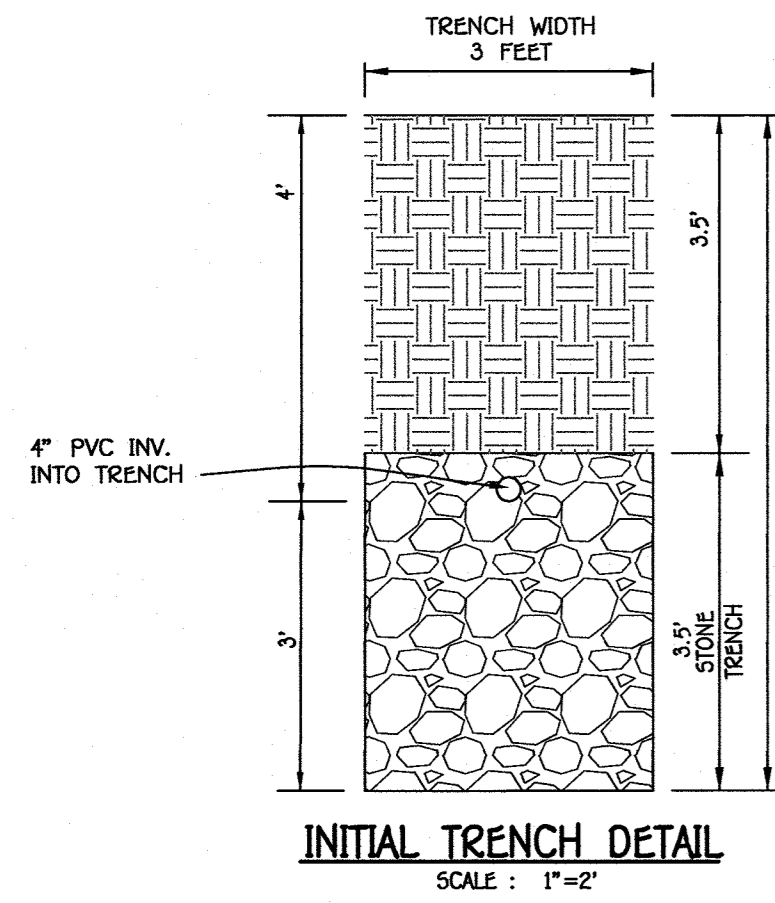
PLAT	GRID NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
23512 - 23515	15	RC-DEO	16	3	6030.04

SITE DEVELOPMENT PLAN

MAPLE VIEW
 LOT 3
 ZONED RC-DEO

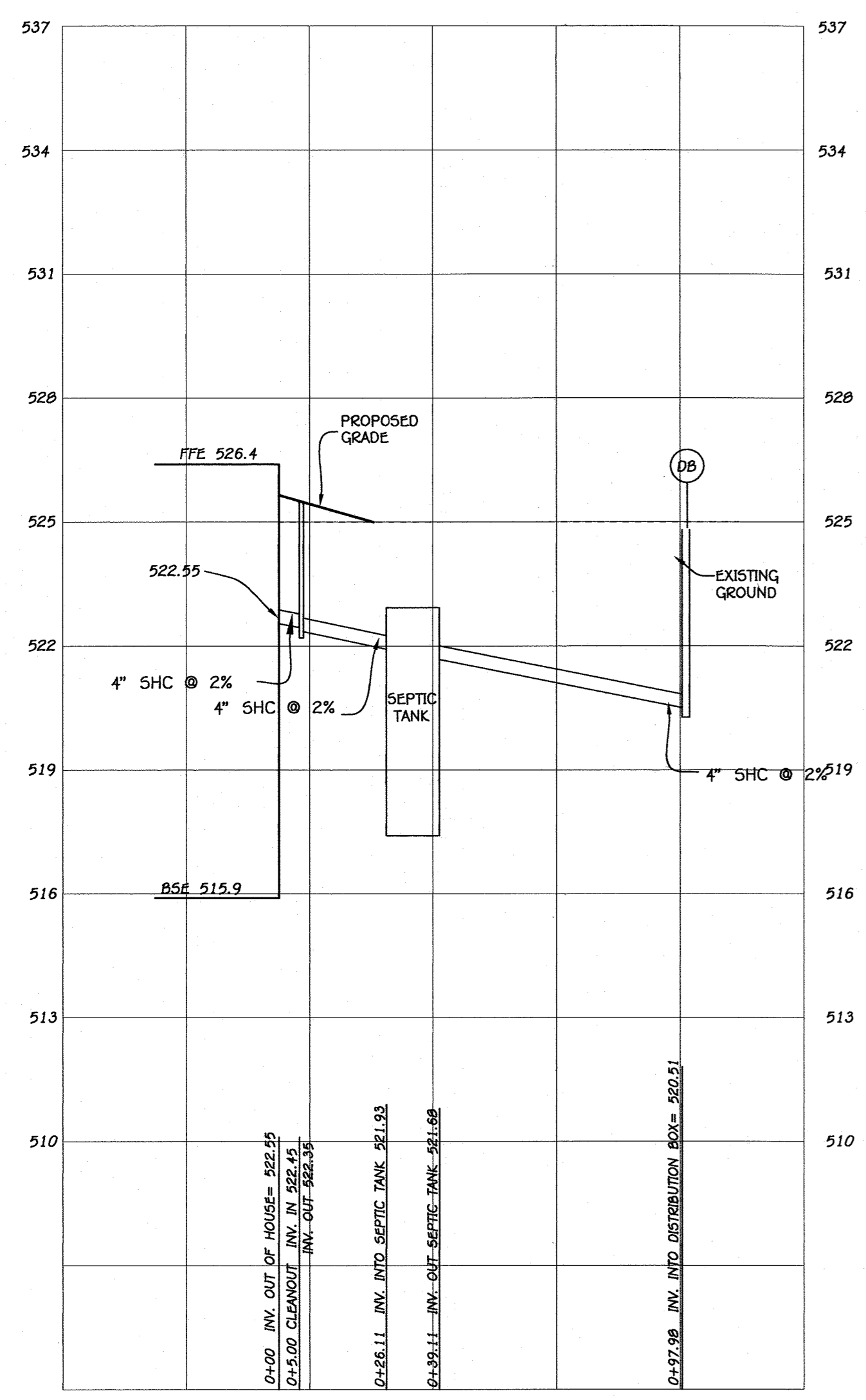
TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 88
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY 2021
 SHEET 2 OF 4

SDP-21-021

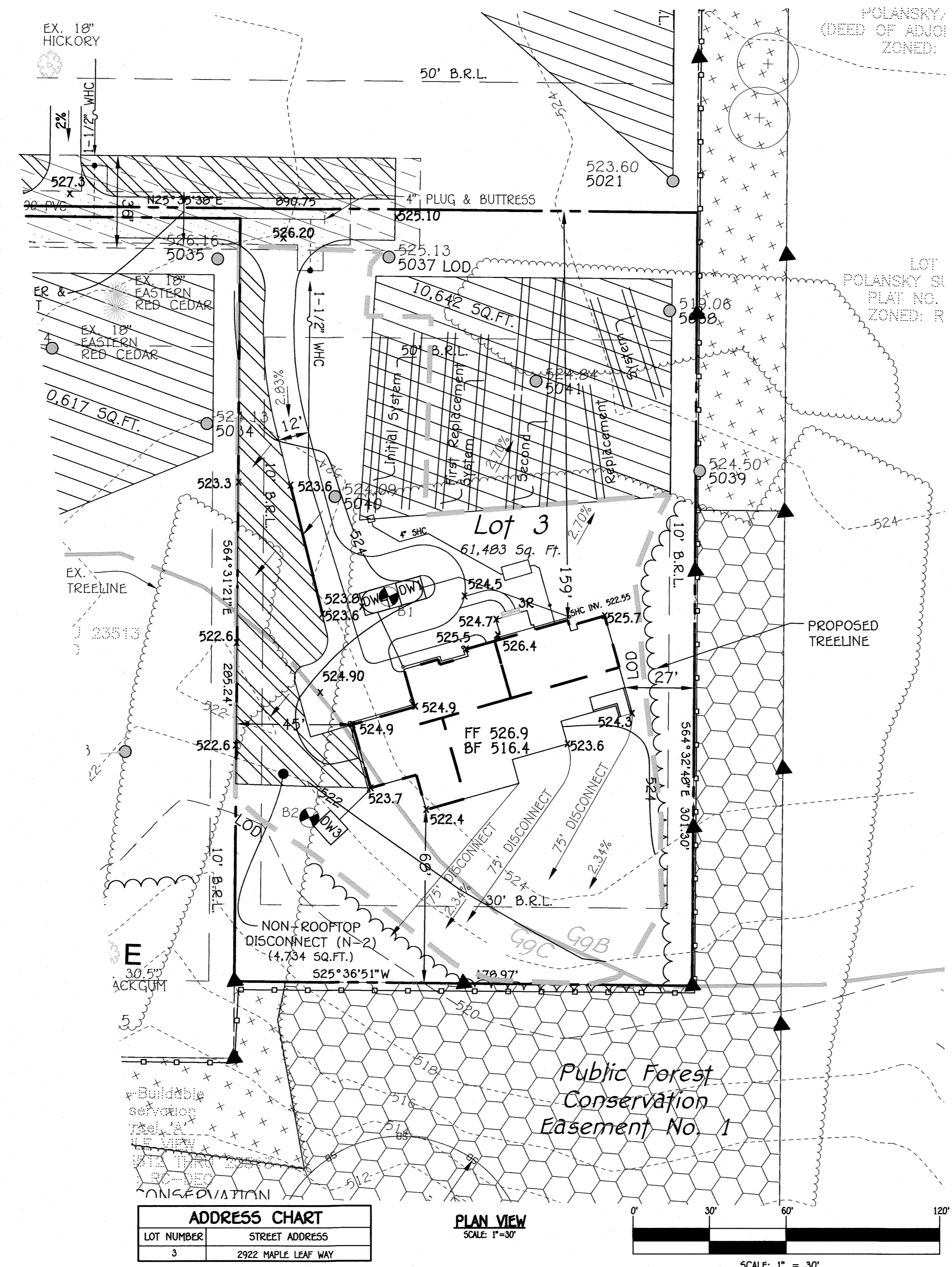


FFE 526.4
 BSE 515.9
 INV. OUT OF HOUSE = 522.55
 PROP. GROUND AT CLEANOUT #1 = 525.1
 INV. INTO CLEANOUT = 522.45
 INV. OUT OF CLEANOUT = 522.35
 EX. GROUND AT SEPTIC TANK = 525.0
 PROP. GRADE ABOVE SEPTIC TANK = 525.0
 TOP OF SEPTIC TANK = 522.93
 INV. INTO SEPTIC TANK = 521.93
 INV. OUT OF SEPTIC TANK = 521.60
 EX. GROUND AT DISTRIBUTION BOX = 524.50
 INV. INTO DISTRIBUTION BOX = 520.51
 INV. OUT OF DISTRIBUTION BOX = 520.50

TRENCH DATA:
 TRENCH 1:
 EX. GROUND ABOVE = 524.5
 INV. IN = 520.5
 BOTTOM TRENCH = 517.5
 TRENCH 2:
 EX. GROUND ABOVE = 524.5
 INV. IN = 520.5
 BOTTOM TRENCH = 517.5



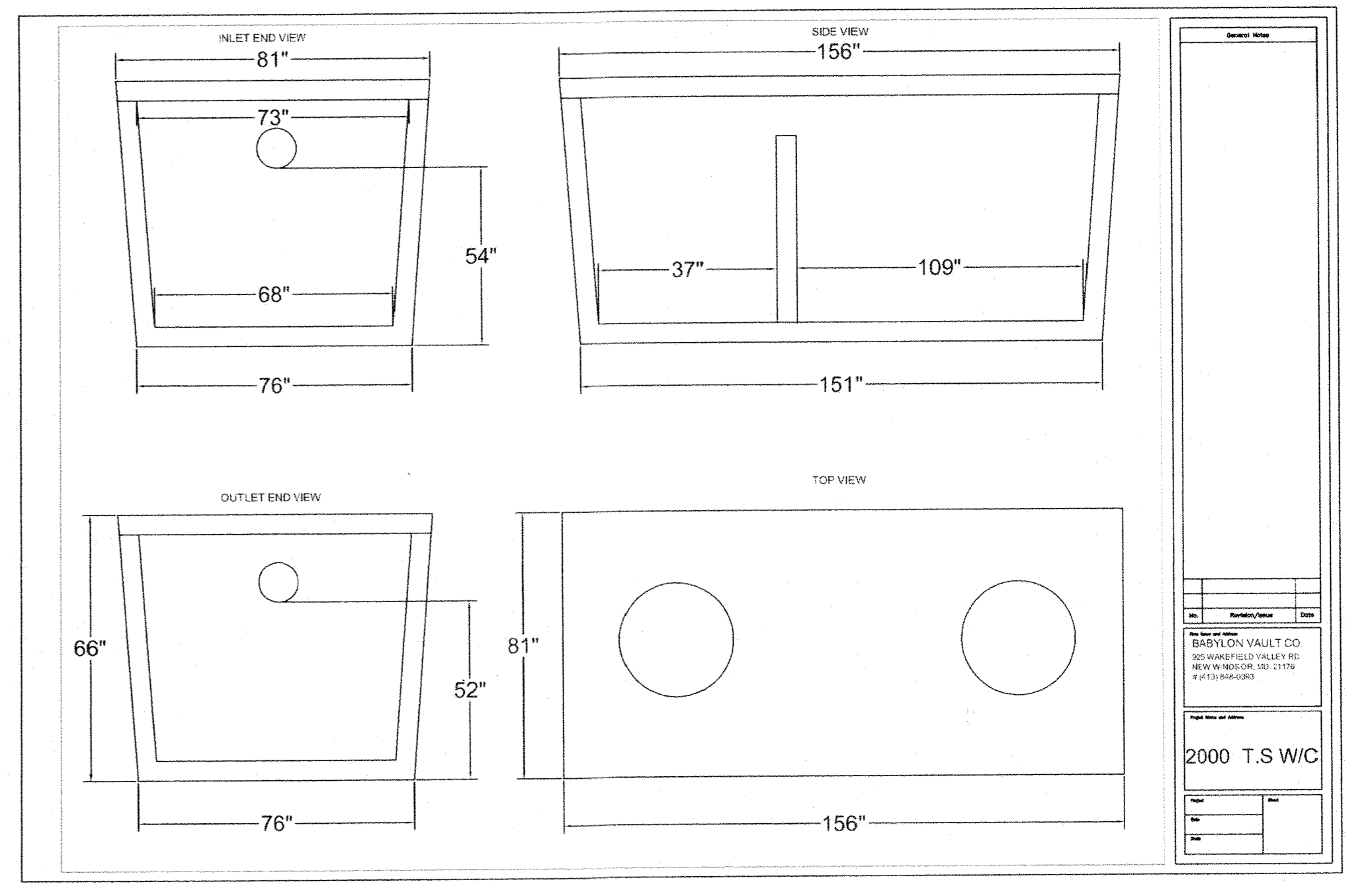
SEPTIC PROFILE
 SCALE: 1" = 30'



ADDRESS CHART

LOT NUMBER	STREET ADDRESS
3	2922 MAPLE LEAF WAY

PLAN VIEW
 SCALE: 1" = 30'



DATE	
BY	
CHECKED	
SCALE	2000 T.S W/C

INITIAL SYSTEM
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET
 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 2.5 FEET
 SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2.5x3)) = 0.55
 TRENCH LENGTH = 250 SF x 0.55 = 137.50 FEET
 (USE 2 TRENCHES AT 68.75 L.F.)
 TRENCH SPACING = 2D+W = ((2.5x3) + 3) = 10.5' USE 10.5'

1ST REPLACEMENT SYSTEM
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
 APPLICATION RATE = 1.2
 EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET
 TRENCH DEPTH = 7 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 2.5 FEET
 SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2.5x3)) = 0.55
 TRENCH LENGTH = 250 SF x 0.55 = 137.50 FEET
 (USE 2 TRENCHES AT 68.75 L.F.)
 TRENCH SPACING = 2D+W = ((2.5x3) + 3) = 10.5' USE 10.5'

2ND REPLACEMENT SYSTEM
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 6 BEDROOMS
 LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
 APPLICATION RATE = 0.6
 EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET
 TRENCH DEPTH = 7.5 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 2 FEET
 SF OF DRAINFIELD = 900 GPD / 0.6 = 1500 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.625
 TRENCH LENGTH = 500 SF x 0.625 = 312.50 FEET
 (USE 7 TRENCHES AT 44.60 L.F.)
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' 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 [3.001(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 (60P-19-042). SHOULD THE DEVELOPER REQUIRE A GREATER NUMBER OF BEDROOMS, A REDLINE REVISION SHALL BE REQUIRED. FOR 60P-19-042.

APPROVED FOR PUBLIC WATER AND PRIVATE SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER: [Signature] DATE: 7/20/21

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development	[Signature]	7/20/21
Chief, Development Engineering Division	[Signature]	7-2-21
Director, Department of Planning and Zoning	[Signature]	8-2-21

PROJECT	SECTION	LOT NO.
MAPLE VIEW	N/A	LOT 3

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 3
 ZONED RC-DEO

TAX MAP No. 16 GRID No. 15 P/O PARCEL No. 80
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: MAY 2021
 SHEET 4 OF 4

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PKE.
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2899



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 07/14/2021.
 Frank Mavalansan II DATE: 6/18/21

OWNERS/DEVELOPER
 EHAB ALALFAY
 6846 SEWELLS ORCHARD DRIVE
 COLUMBIA MD 21045
 240-801-6040

PROPERTY ADDRESS
 2922 MAPLE LEAF WAY
 ELLICOTT CITY MD 21043