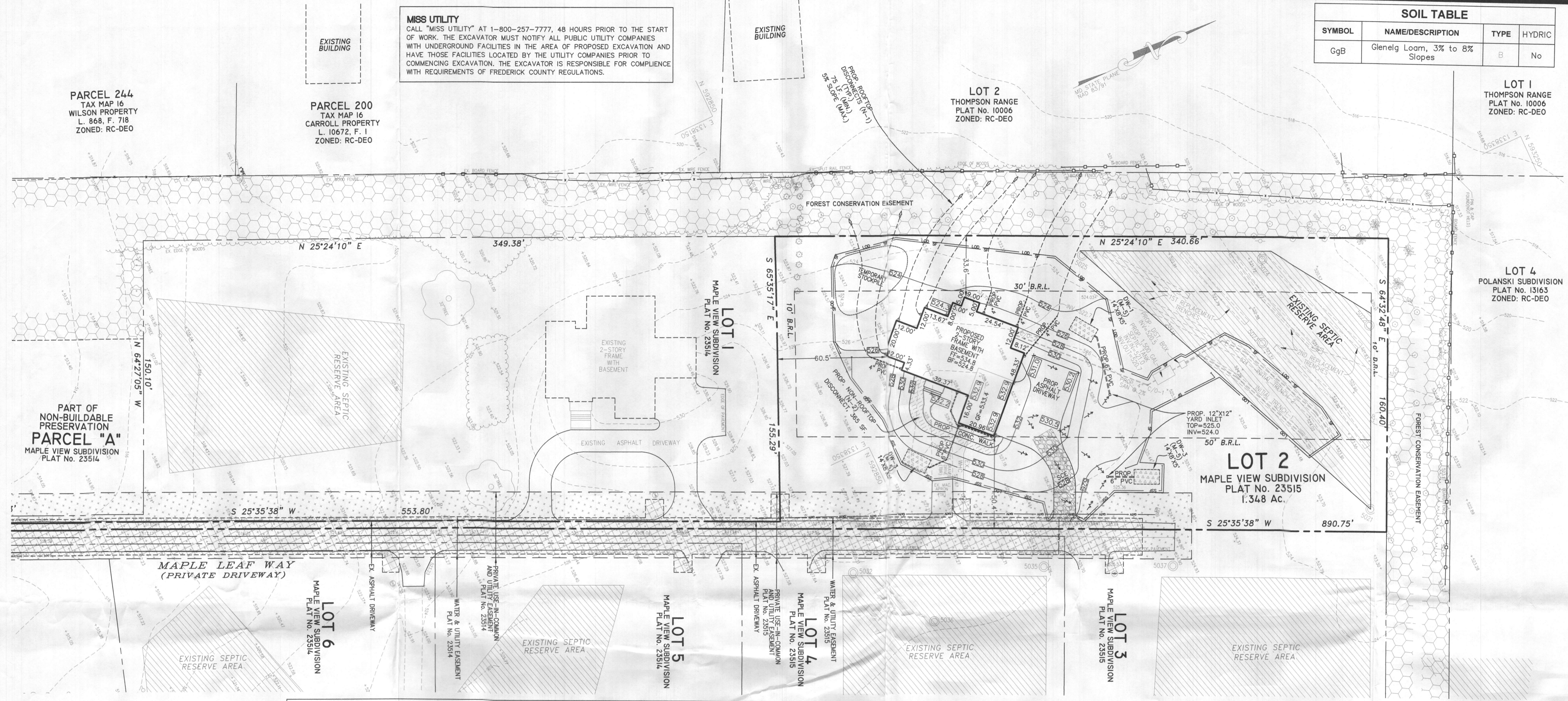


MISS UTILITY
 CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF FREDERICK COUNTY REGULATIONS.

SOIL TABLE			
SYMBOL	NAME/DESCRIPTION	TYPE	HYDRIC
GgB	Glennel Loam, 3% to 8% Slopes	B	No

LEGEND	
	EX. WATER VALVE
	EX. WATER METER
	EX. FIRE HYDRANT
	EX. WATER CONNECTION
	EX. SIGN
	EX. ELECTRIC TRANSFORMER
	EX. BGE MARKER
	EX. CONTROL BOX
	EX. WOOD POST
	EX. PASSING PERCOLATION TEST
	EX. EVERGREEN TREE
	EX. DECIDUOUS TREE
	EX. DECORATIVE BUSH
	PROP. SPOT ELEVATION
	EX. CONTOUR
	EX. EDGE WOODED AREA
	PROP. EDGE WOODED AREA
	PROP. SUPER SILT FENCE
	PROP. SILT FENCE
	PROP. LIMIT OF DISTURBANCE
	DENOTES (TO REMAIN)
	DENOTES (TO BE REMOVED)
	EX. PRIVATE USE-IN-COMMON AND UTILITY EASEMENT
	EX. FOREST CONSERVATION EASEMENT
	EX. SEPTIC RESERVE AREA
	EX. WATER & UTILITY EASEMENT
	PROP. DRYWELL
	PROP. NON-ROOFTOP DISCONNECT (N-2)



TRENCH INFO, INITIAL SYSTEM					
TRENCH	TRENCH LENGTH OF GROUND	EX. TOP OF TRENCH	TOP OF GRAVEL	INV. INTO TRENCH	BOTTOM OF TRENCH
1	78.5'	524.3±	523.3	520.3	517.3
2	78.5'	523.7±	522.7	519.7	516.7

SEPTIC SYSTEM CALCULATIONS, INITIAL + 1ST REPLACEMENT SYSTEMS:
 ABS. RATE= 0.8, EFF. DEPTH= 4'-7" (3')
 DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 0.8 ABSORPTION RATE=938 SQ. FT.
 SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{3+2} = \frac{5}{5} = 0.50$
 $\frac{WIDTH+1+2(DEPTH)}{3+1+2(3)} = \frac{10}{10} = 1.0$
 LENGTH OF TRENCHES: $\frac{938 \text{ SQ. FT.} \times 0.50}{3} = 156.3 \text{ LINEAR FEET}$
 INITIAL SYSTEM: TWO TRENCHES OF 78.5 FEET IN LENGTH, 3 FEET WIDE, 10 FEET SPACED ARE PROVIDED.
 FIRST REPLACEMENT SYSTEM: THREE TRENCHES OF 52.5 FEET IN LENGTH, 3 FEET WIDE, 10 FEET SPACED ARE PROVIDED.

SEPTIC SYSTEM CALCULATIONS, 2ND REPLACEMENT SYSTEM:
 ABS. RATE= 0.8, EFF. DEPTH=4.5'-6" (1.5')
 DRAINFIELD AREA: 5 BEDROOMS AT 750 gpd / 0.8 ABSORPTION RATE=938 SQ. FT.
 SIDEWALL REDUCTION CREDIT: $\frac{WIDTH+2}{3+2} = \frac{5}{5} = 0.7143$
 $\frac{WIDTH+1+2(DEPTH)}{3+1+2(1.5)} = \frac{7}{7} = 1.0$
 LENGTH OF TRENCHES: $\frac{938 \text{ SQ. FT.} \times 0.7143}{3} = 223.3 \text{ LINEAR FEET}$
 SECOND REPLACEMENT SYSTEM: THREE TRENCHES OF 75 FEET IN LENGTH, 3 FEET WIDE, 10 FEET SPACED ARE PROVIDED.

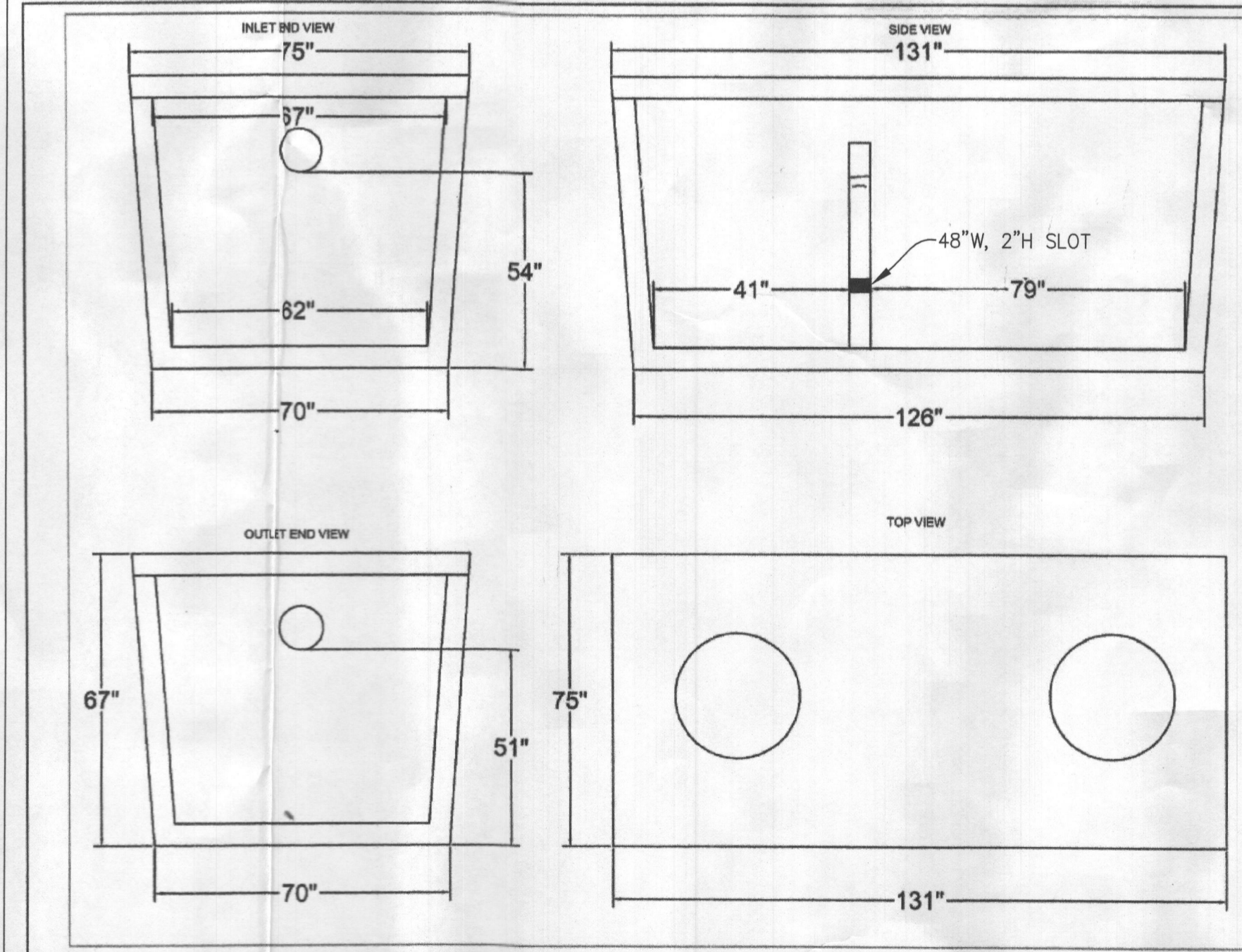
APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
 THIS DEVELOPMENT PLAN IS APPROVED FOR PUBLIC WATER & PRIVATE SEWAGE SYSTEMS.

COUNTY HEALTH OFFICER _____ DATE _____

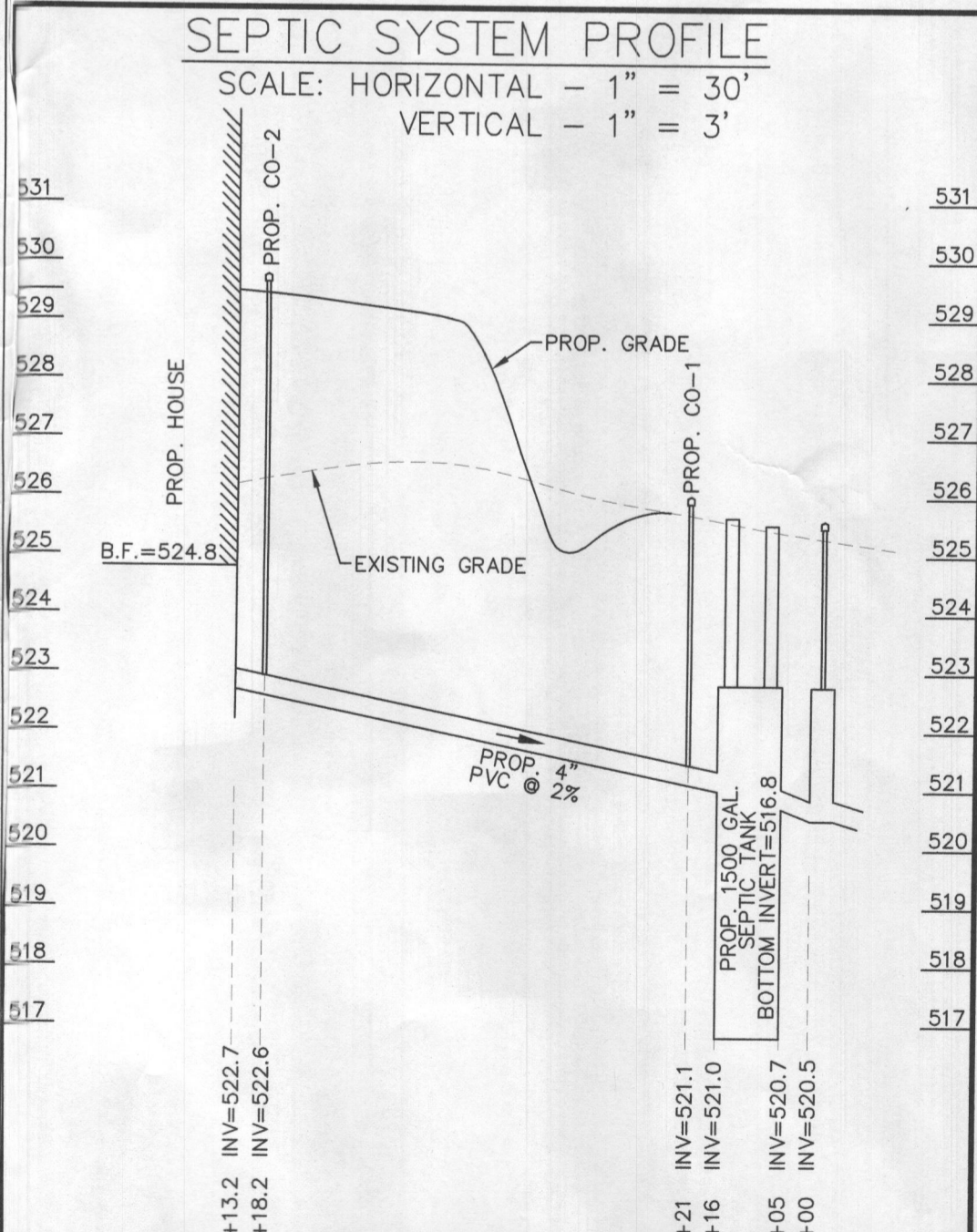
APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

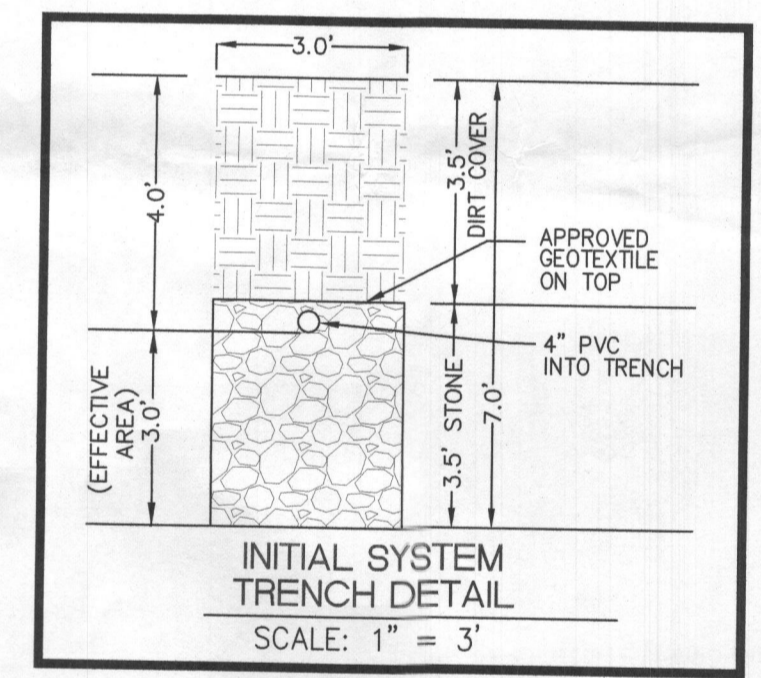
CHIEF, DIVISION OF LAND DEVELOPMENT _____ DATE _____



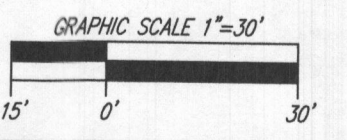
**STANDARD DETAIL
 1500 GALLON TWO COMPARTMENT
 SEPTIC TANK**



- NOTES:**
- ANY CHANGES 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 EXISTING 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 ON THIS PLAN.
 - THE TOPOGRAPHY SHOWN ON THIS PLAN IS BASED ON AN ACTUAL FIELD RUN SURVEY BY NJR & ASSOCIATES PERFORMED ON DECEMBER OF 2019.
 - THIS SURVEY IS TIED TO MARYLAND STATE PLANE NAD 83/91 COORDINATE SYSTEM.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT.
 - THE LOTS SHOWN HEREON IS SERVED BY PUBLIC WATER.



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
2	2921 MAPLE LEAF WAY



REVISIONS	
No.	DATE

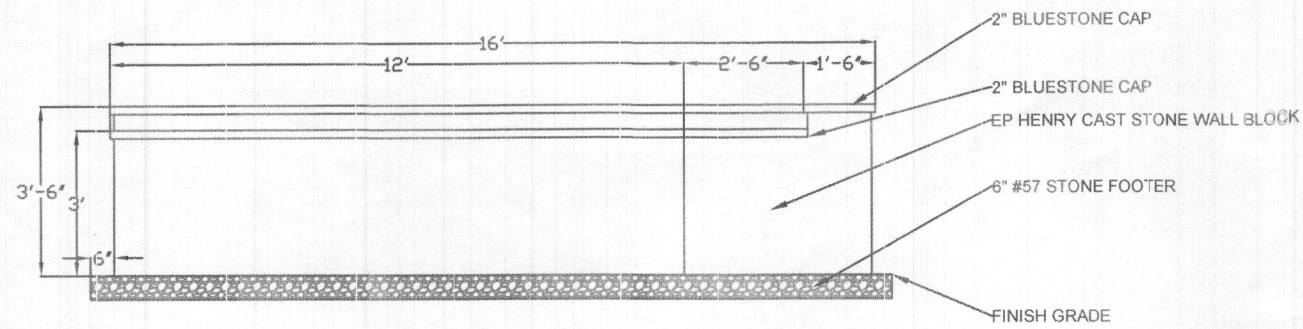
PLAN PREPARED BY:
NJR & ASSOCIATES
 Land Surveying and Planning
 2770 STATE ROUTE 32
 WEST FRIENDSHIP, MD 21794
 TEL: (240) 508-3200

PROFESSIONAL CERTIFICATE
 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 NUMBER 11049 WITH EXPIRATION DATE OF FEBRUARY 10, 2021.
 SIGNATURE _____ DATE MAY 6, 2020

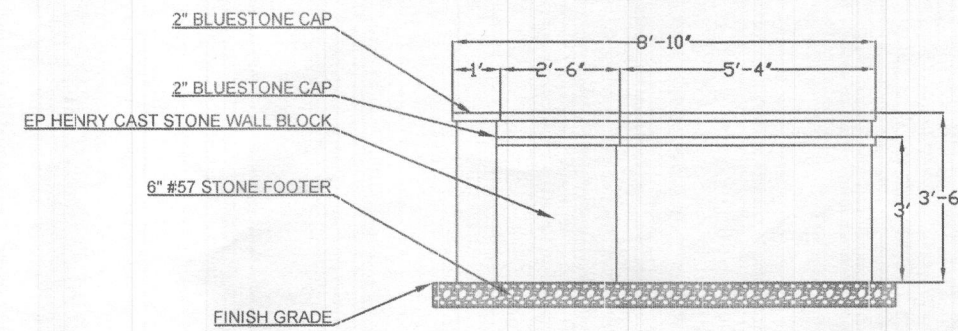
DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING 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 _____

DEVELOPER
 JARUSO HOMES
 2120 BAIDWIN AVENUE, SUITE-200
 CROFTON, MD 21144
 (301) 261-0277
 OWNER
 BO SUN & YIJING LU
 4937 WINDPOWER WAY
 ELLIOTT CITY, MD 21043
 (202) 256-6826

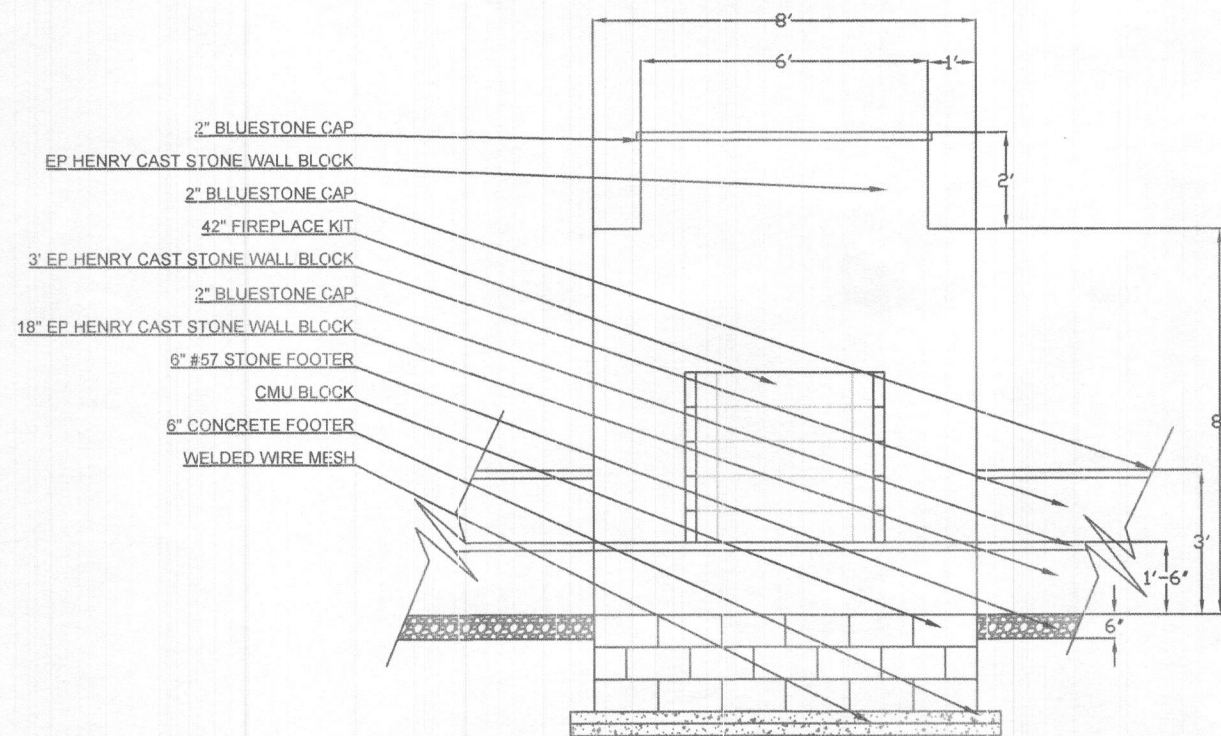
ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
MAPLE VIEW
LOT 2
 PLAT No. 23512-23515
 TAX MAP 16, GRID 15, PARCEL 88
 ZONED: RC-DEO
 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' JOB NO.: 3571 DATE: MAY 6, 2020 SHEET: 4 OF 4



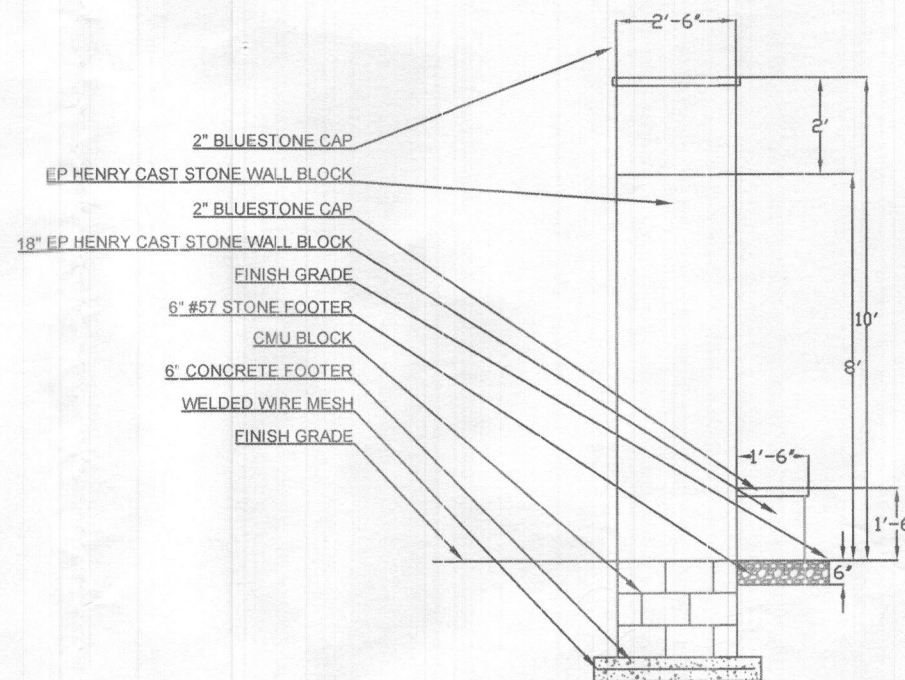
1
S2 SOUTH KITCHEN ELEVATION
1/4"=1'-0"



2
S2 EAST KITCHEN ELEVATION
1/4"=1'-0"



3
S2 EAST FIREPLACE ELEVATION
1/4"=1'-0"



4
S2 SOUTH FIREPLACE ELEVATION
1/4"=1'-0"

MUKHERJEE RESIDENCE
5051 GAITHERS CHANCE DR.
CLARKSVILLE, MD 21036

SCAPES INC.
PO Box 90
Harwood, MD 20776

No.	Revision/Issue	Date

Project: MUKHERJEE PERMIT
Date: 03/14/21
Scale: 1/4"=1'-0"

S2

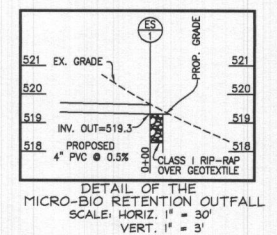
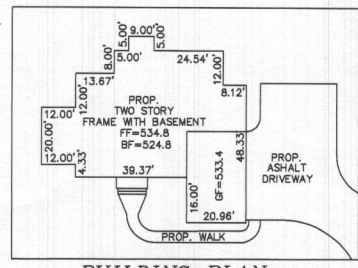
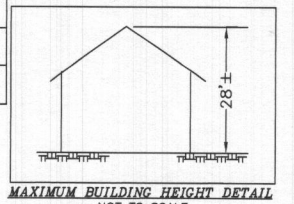
DRYWELL ELEVATION CHART

NUMBER	TOP GROUND	TOP GRAVEL	INVERT PIPE	BOTTOM PIT
1	525.5	524.5	523.7	519.5
2	525.4	524.4	523.6	519.4
3	527.5	526.5	525.7	521.5

MISS UTILITY
CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF FREDERICK COUNTY REGULATIONS.

SOIL TABLE

SYMBOL	NAME/DESCRIPTION	TYPE	HYDROLIC	K-VALUE
GgB	Glenside Loam, 3% to 8% Slope	B	No	0.20

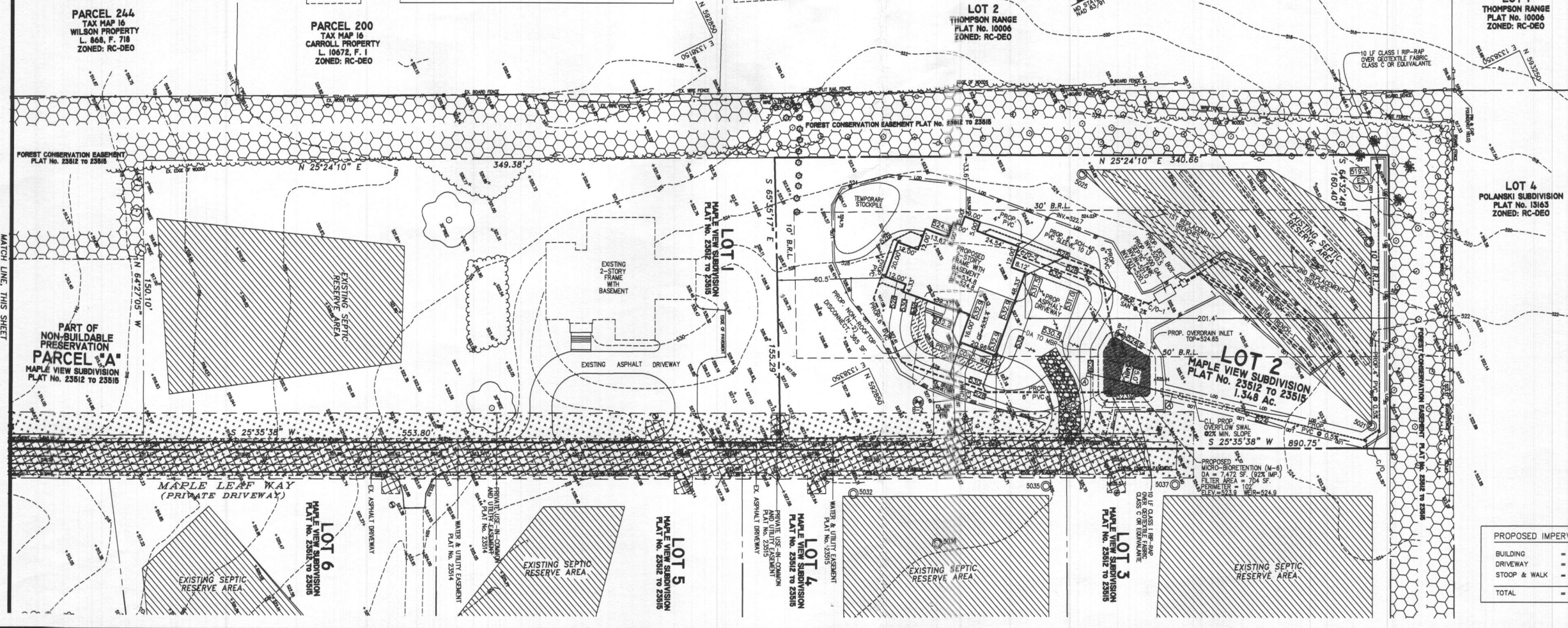


LEGEND

⊕	EX. WATER VALVE
⊕	EX. WATER METER
⊕	EX. FIRE HYDRANT
⊕	EX. WATER CONNECTION
⊕	EX. SIGN
⊕	EX. ELECTRIC TRANSFORMER
⊕	EX. BGE MARKER
⊕	EX. CONTROL BOX
⊕	EX. WOOD POST
⊕	EX. PASSING PERCOLATION TEST
⊕	EX. EVERGREEN TREE
⊕	EX. DEODOUOUS TREE
⊕	EX. DECORATIVE BUSH
⊕	PROP. SPOT ELEVATION
---	EX. CONTOUR
---	PROP. CONTOUR
---	DRAINAGE AREA LIMIT
---	EX. EDGE WOODED AREA
---	PROP. EDGE WOODED AREA
---	PROP. SUPER SILT FENCE
---	PROP. SILT FENCE
---	PROP. LIMIT OF DISTURBANCE
(TR)	DETENOTES (TO REMAIN)
(TBR)	DETENOTES (TO BE REMOVED)
⊕	EX. PRIVATE USE-IN-COMMON AND UTILITY EASEMENT
⊕	EX. FOREST CONSERVATION EASEMENT
⊕	EX. SEPTIC RESERVE AREA
⊕	EX. WATER & UTILITY EASEMENT
⊕	PROP. NON-ROOFTOP DISCONNECT (N-2)
⊕	SOIL BORING LOCATION

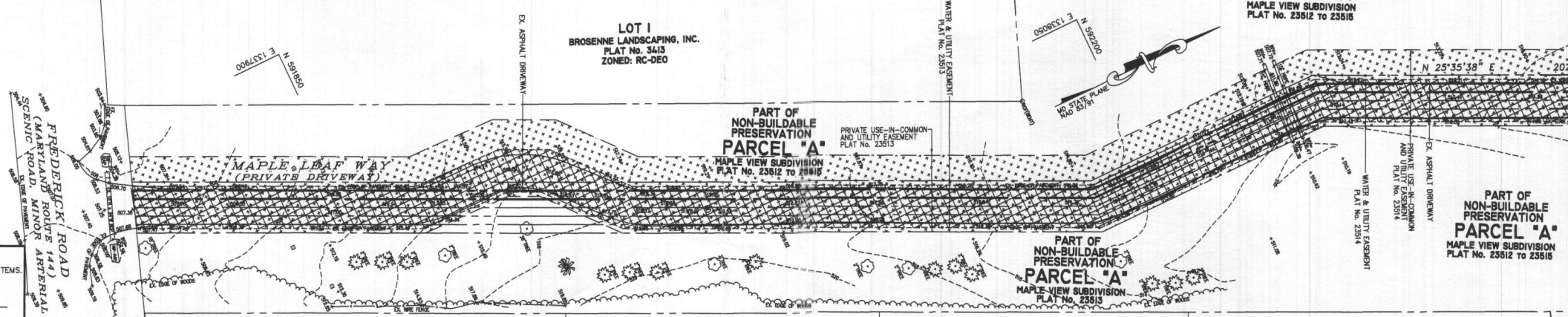
PROPOSED IMPERVIOUS

BUILDING	= 3,088 SF.
DRIVEWAY	= 2,362 SF.
STOOP & WALK	= 320 SF.
TOTAL	= 5,770 SF.



SITE ANALYSIS DATA CHART

TOTAL LOT AREA (INCLUDING PIPESTEM)	= 1.348 ACRES
NET LOT AREA (PIPESTEM EXCLUDED)	= 1.245 ACRES
LOT AREA "PROP. TO BE DISTURBED"	= 0.537 ACRES (23,413 SF.)
NEW LOT IMPERVIOUS AREA PROPOSED	= 0.132 ACRES (5,770 SF.)
EX. MAC. DRIVEWAY ON NET LOT AREA (OUTSIDE THE LIMIT OF DISTURBANCE)	= 0.028 ACRES (1,201 SF.)
SITE AREA WITHIN WETLAND	= 0 ACRES
SITE AREA WITHIN 25' WETLAND BUFFER	= 0 ACRES
SITE AREA OF STEEP SLOPES	= 0 ACRES
SITE AREA OF ERODIBLE SOILS	= 0 ACRES
SITE AREA WITHIN 100-YR FLOODPLAIN	= 0 ACRES
SITE AREA WITHIN 100' STREAM BUFFER	= 0 ACRES
SITE TOTAL FORESTED AREA	= 0 ACRES
TOTAL WOODED AREA TO BE CLEARED	= 0 ACRES



APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
THIS DEVELOPMENT PLAN IS APPROVED FOR PUBLIC WATER & PRIVATE SEWAGE SYSTEMS.

COUNTY HEALTH OFFICER _____ DATE _____

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

HOWARD SOIL CONSERVATION DISTRICT _____ DATE _____

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

CHIEF, DIVISION OF LAND DEVELOPMENT _____ DATE _____

DIRECTOR _____ DATE _____

ENGINEERS 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 HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

M.N. ROSEMAN
M.N. ROSEMAN, L.S.
January 23, 2021

LOT 9
WILLOW RIDGE
PLAT No. 22030
ZONED: RC-DEO

LOT 8
WILLOW RIDGE
PLAT No. 22030
ZONED: RC-DEO

LOT 7
WILLOW RIDGE
PLAT No. 22030
ZONED: RC-DEO

LOT 6
WILLOW RIDGE
PLAT No. 22030
ZONED: RC-DEO

PLAN PREPARED BY:
NJR & ASSOCIATES
Land Surveying and Planning
2770 STATE ROUTE 32
WEST FRIENDSHIP, MD 21794
TEL: (240) 508-8200

PROFESSIONAL CERTIFICATE
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 NUMBER 11090 WITH EXPIRATION DATE OF FEBRUARY 10, 2021.

[Signature]
January 23, 2021

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

DEVELOPER
CARUSO HOMES
2120 BALDWIN AVENUE, SUITE-200
CROFTON, MD 21144
(301) 261-0277

OWNER
BO SUN & YIANG LU
4537 WINDPOWER WAY
ELLCOTT CITY, MD 21043
(202) 256-6826

SITE DEVELOPMENT PLAN
MAPLE VIEW
LOT 2
PLAT No. 23512-23515
TAX MAP 16, GRID 15, PARCEL 88
ZONED: RC-DEO
3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 30' JOB NO.: 3571 DATE: MAY 6, 2020 SHEET: 2 OF 4