

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: 5/24/24 **ONSITE SEWAGE DISPOSAL SYSTEM** P 586711

APPROVAL DATE: 8/6/2024 **PERMIT: CONSTRUCTION** A _____

PROPERTY ADDRESS: 3682 Jennings Chapel Rd. (House, Not Trailer)

SUBDIVISION: N/A LOT: N/A TAX ID: 1404331265

CONTRACTOR: Jeff Allen Backhoe EMAIL: _____

CONTRACTOR ADDRESS: 15100 Frederick Road, Woodbine, MD 21797 PHONE: 410-707-9028

PROPERTY OWNER: Tucker Hyman EMAIL: kalinhyman@gmail.com

OWNER ADDRESS: 3682 Jennings Chapel Rd. PHONE: 301-758-6662

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon Vault

PUMP MODEL: N/A PUMP SIZE: N/A PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM: GRAVITY PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>111</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>13</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	<ol style="list-style-type: none"> 1. Make sure tank is not in problem area. (Heavy equipment traffic area or stormwater area) 2. Sleeve line under driveway. 3. Make sure septic line is not within 100' of well box arch. RAC If fall cannot be created pump tank may be required. RAC 	

ISSUED BY: Robert Freemon ISSUE DATE: 6/12/24 EXPIRATION DATE: 6-12-25

- 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

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	2.5'-3'	6"
NUMBER OF TRENCHES		2
TOTAL LENGTH		110
ABSORPTION AREA		330 ft ²
DISTRIBUTION BOX LEVEL		yes
DISTRIBUTION BOX BAFFLE		yes
DISTRIBUTION BOX PORT		yes

see separate
sheet
for AS-built

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL Yes
 MANUFACTURER Babylon
 CAPACITY 2000 GAL
 SEAM LOC Top
 TANK LID DEPTH _____
 BAFFLES 6" floor
 BAFFLE FILTER -
 MANHOLE LOC Top
 6" PORT LOC _____
 WATERTIGHT TEST -
 SLOTTED Yes
 DATE ON LID 6/10/24

PUMP/SEPTIC TANK LEVEL N/A

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

septic installer onsite installing system: Jeff Allen
 septic installer onsite licensed w/ state of MD Yes

ROAD NAME

PRE-CONSTRUCTION:

7/16/2024 - Installer on site. Sewer not stubbed out of house yet. Tanks stacked per plan. SDA stacked. Trenches on contour per plan Trench 1 and 2 length @ 56'. Stone OK. Installer confirmed stone will not be used from tank to D-box. Tank will be installed tomorrow. (SP/MB)

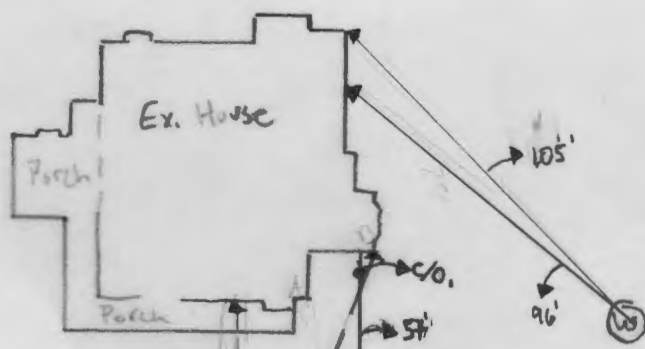
INSTALLATION:

7/17/2024 - installer onsite. Tank raised 3', installer bringing sewer out of house up. ~~sewer line~~ at top of tank but 5' of fall OK to backfill tank. re-inspect per DHC & trenches. (SP/MB) 7/18/2024 Installer on site. Connection to house not yet complete. Plenty of fall from house to septic tank and from tank to trenches. ~~Trench 1~~ Trench 2 length at 55'. Trench depth at 8'. Inlet depth at 3'. Stone and mesh in place. OK to backfill trenches. D-box leveled. Pipe between c/o and septic tank sleeved. (SP/MB) Re-inspect with well line; A borehole is being drilled into the foundation. Well line and sewer house connection will be made at the same time. (MB/SP)
 8/5/2024 - Sewer coming out of house connected to septic system. OK to backfill. (SP)

FINAL INSPECTOR S. Price

DATE OF APPROVAL 8/5/2024

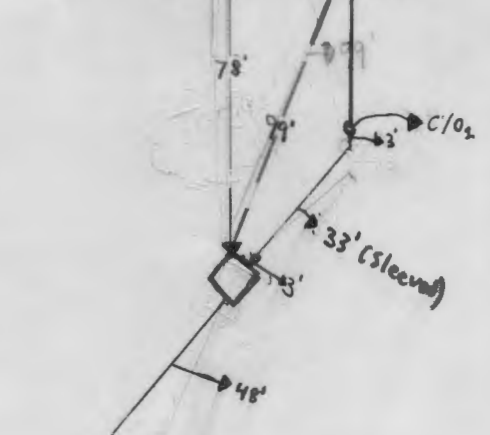
11 Story Garage



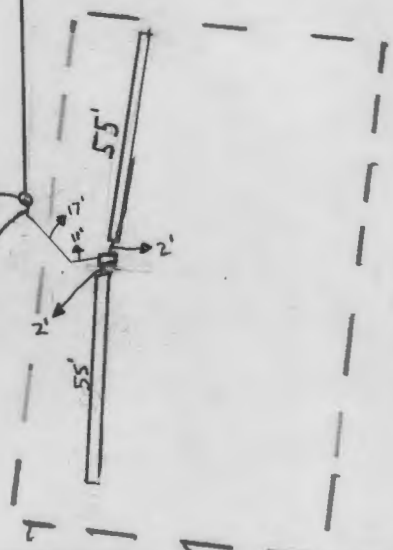
100-20-0071

2-40y
Wood
Barn

C/O₃ - A: 273'
C/O₃ - B: 288'
D-Box - A: 295'
D-Box - B: 300'



144'

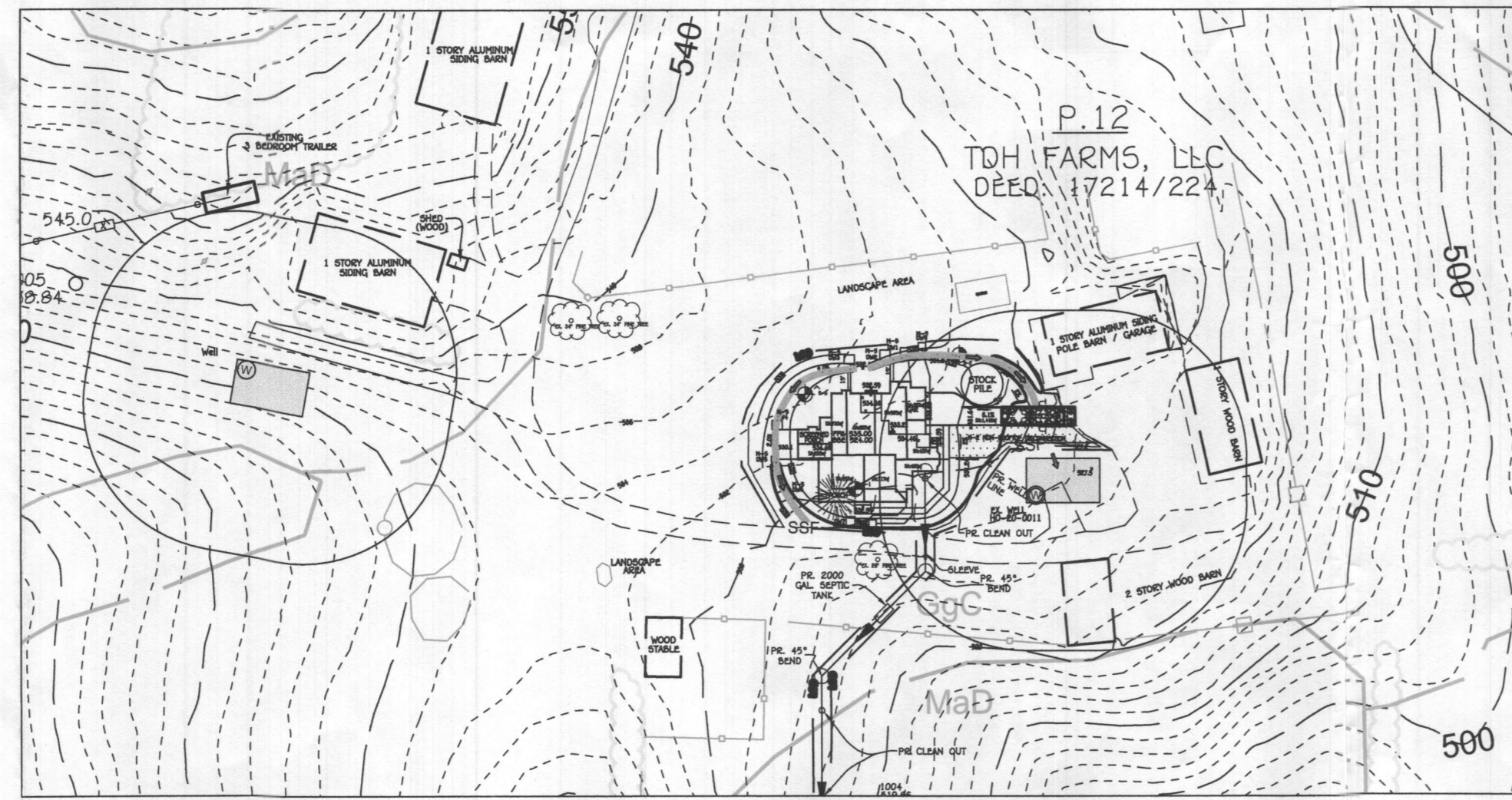


1-50 - NOT TO SCALE

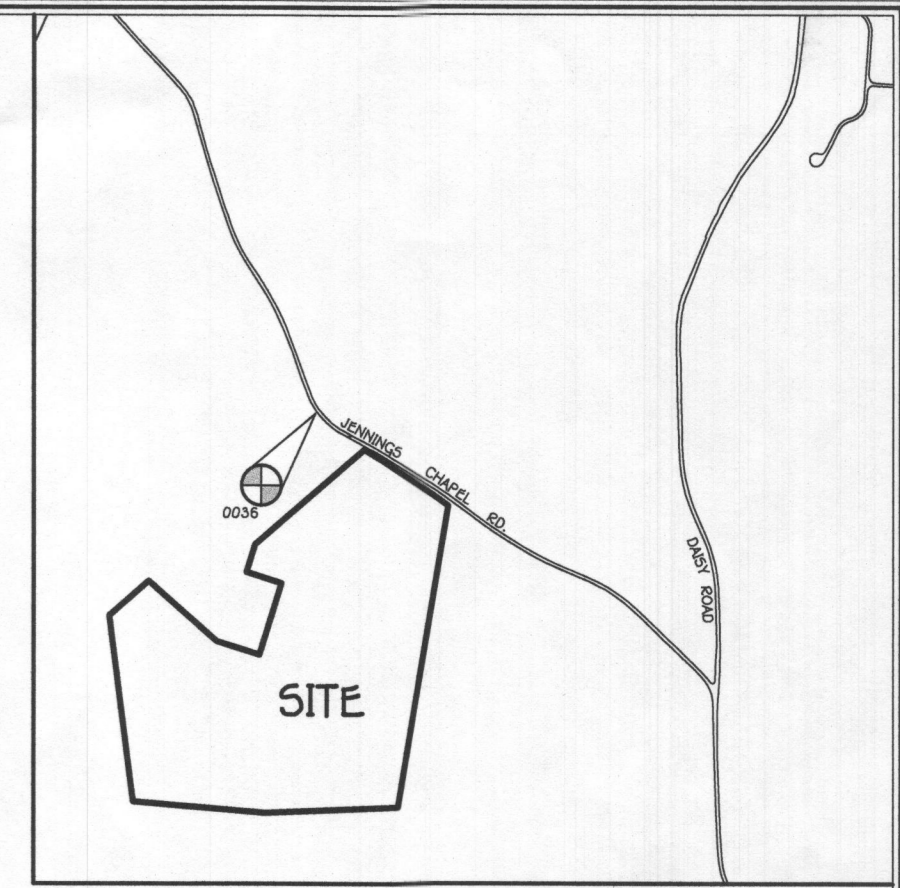
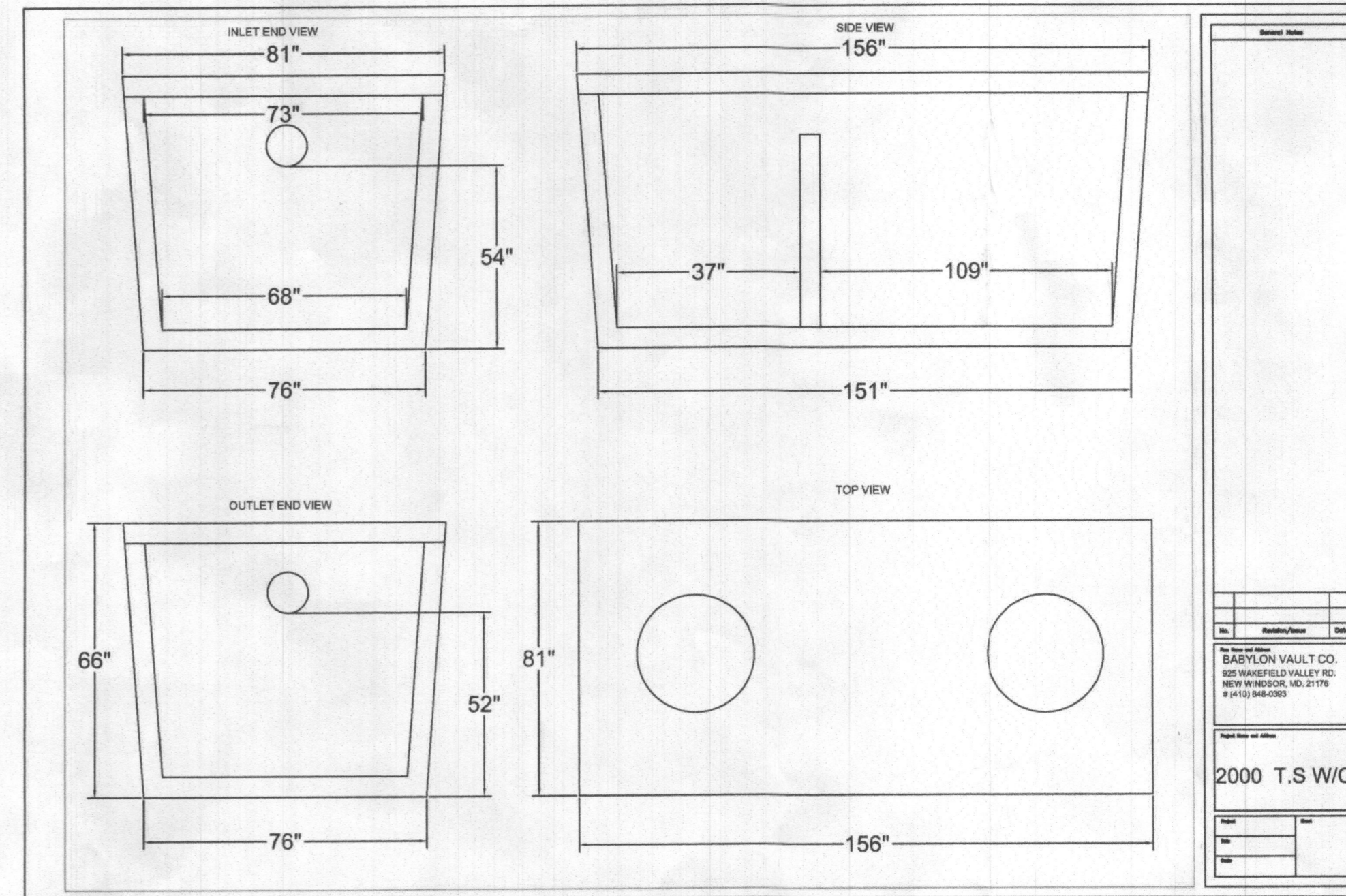
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL HO-20-0011 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. 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.
5. ALL MUST BE APPROVED PRIOR TO BUILDING PERMIT APPROVAL (OSDS PLAN, INSTALLATION AND SEPTIC PERMIT).
6. CONTRACTOR TO PERFORM CONSTRUCTION PER CURRENT OSHA STANDARDS.

THE PURPOSE OF THIS SEPTIC INSTALL PLAN IS TO CHANGE THE LOCATION OF THE SEPTIC LINE FROM THE HOUSE AND UPDATE THE PROFILE.

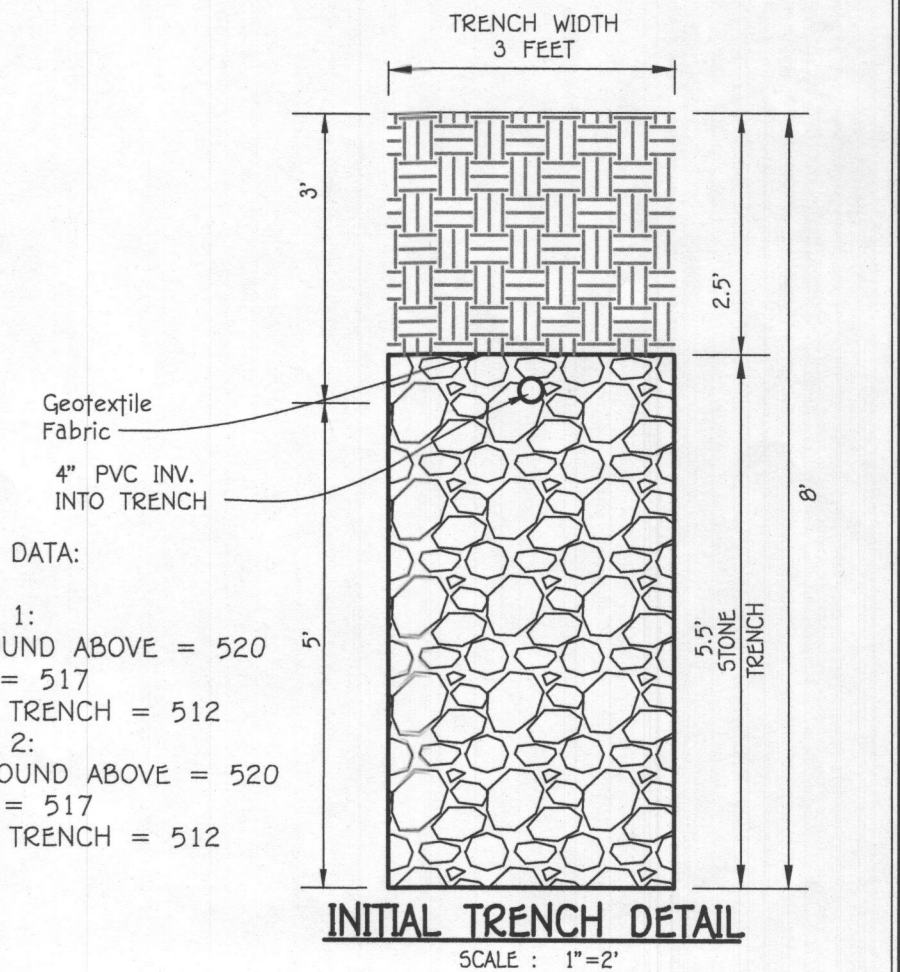
FFE 535.00
 BSE 524.00
 INV. OUT OF HOUSE = 521.99
 EX. GROUND AT CLEANOUT #1 = 529.84
 INV. INTO CLEANOUT = 521.91
 INV. OUT OF CLEANOUT = 521.81
 EX. GROUND AT SEPTIC TANK = 524.00
 TOP OF SEPTIC TANK = 521.37
 INV. INTO SEPTIC TANK = 520.37
 INV. OUT OF SEPTIC TANK = 520.20
 EX. GROUND AT CLEANOUT #2 = 524.80
 INV. INTO CLEANOUT = 519.44
 INV. OUT OF CLEANOUT = 519.33
 EX. GROUND AT CLEANOUT #3 = 524.02
 INV. INTO CLEANOUT = 518.77
 INV. OUT OF CLEANOUT = 518.67
 EX. GROUND AT CLEANOUT #4 = 522.60
 INV. INTO CLEANOUT = 518.10
 INV. OUT OF CLEANOUT = 518.00
 EX. GROUND AT DISTRIBUTION BOX = 520.00
 INV. INTO DISTRIBUTION BOX = 517.73
 INV. OUT OF DISTRIBUTION BOX = 517.63



PLAN
 DETAIL 1"=100'

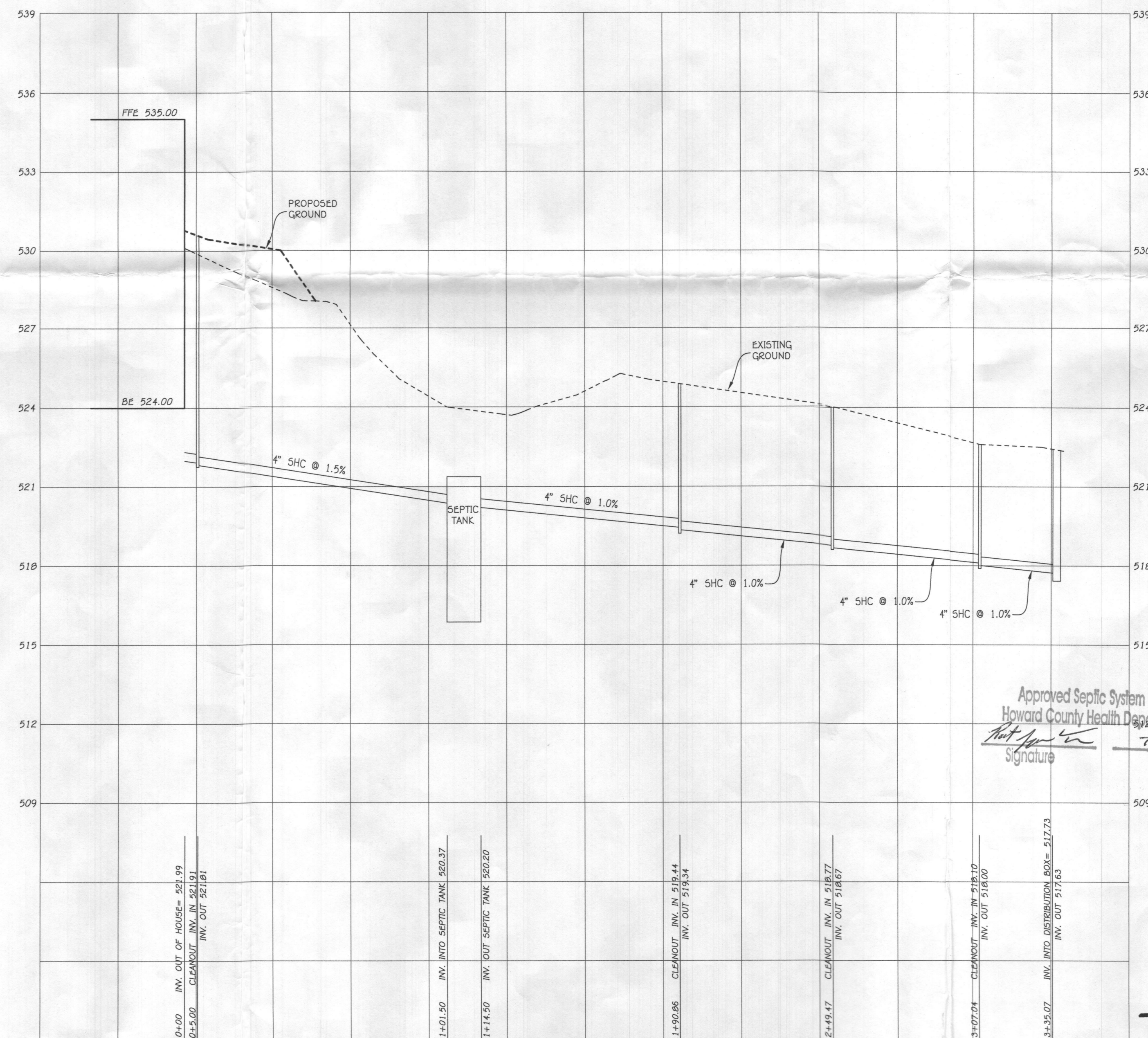


VICINITY MAP
 SCALE: 1" = 1200'



TRENCH DATA:

- TRENCH 1:
 EX. GROUND ABOVE = 520
 INV. IN = 517
 BOTTOM TRENCH = 512
- TRENCH 2:
 EX. GROUND ABOVE = 520
 INV. IN = 517
 BOTTOM TRENCH = 512



SEPTIC PROFILE
 SCALE: 1"=30'

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
 APPLICATION RATE = 0.8
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET
 TRENCH DEPTH = 8 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 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+(2x5)) = 0.357
 TRENCH LENGTH = 312.50 SF x 0.357 = 111.61 FEET
 2 TRENCHES AT 55.80
 TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
 APPLICATION RATE = 0.8
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET
 TRENCH DEPTH = 8 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 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+(2x5)) = 0.357
 TRENCH LENGTH = 312.50 SF x 0.357 = 111.61 FEET
 2 TRENCHES AT 55.80
 TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

2ND REPLACEMENT SYSTEM

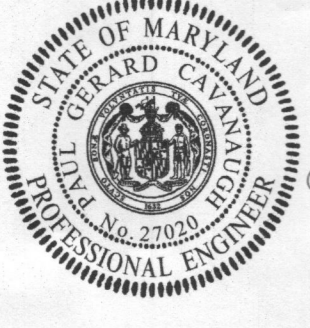
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
 APPLICATION RATE = 0.8
 EFFECTIVE SIDEWALL BEGINS AT 4 FEET
 TRENCH DEPTH = 8 FEET
 TRENCH WIDTH (W) = 3 FEET
 EFFECTIVE DEPTH (D) = 4 FEET
 SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x4)) = 0.333
 TRENCH LENGTH = 312.50 SF x 0.333 = 104.17 FEET
 2 TRENCHES AT 52.08
 TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

Approved Septic System Plan
 Howard County Health Department
 Signature: [Signature]
 Date: 7/15/2024

DAILY STABILIZATION NOTE:
 CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY. STABILIZATION SHE BE AS FOLLOWS.
 1. FOR AREAS TO BE PAVED, THAT APPLICATION OF STONE BASE.
 2. FOR AREAS TO BE VEGETATIVELY STABILIZED:
 A. PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS OR SWALES.
 B. PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.
 ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWN SLOPE SIDE.

PLAN
 DETAIL 1"=50'

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. 23020, EXPIRATION DATE: 1/29/2026.



Signature of Professional Engineer: [Signature]
 DATE: July 1, 2024

OWNER/DEVELOPER
 TUCKER HYMAN
 3682 JENNINGS CHAPEL RD
 WOODBINE, MD 21797
 301-750-6662

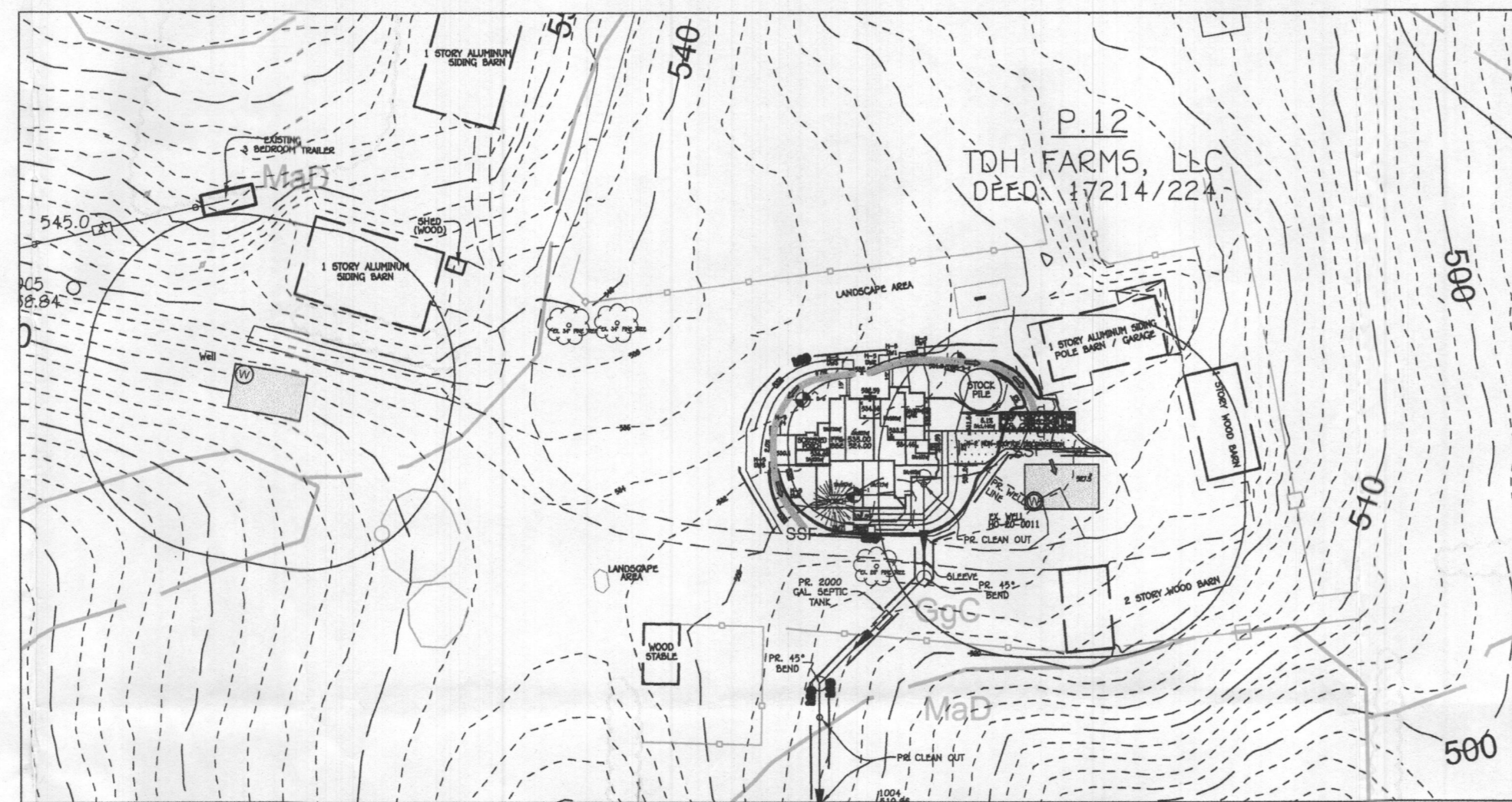
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK 10072 WALTHAM NATIONAL PKCE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2895

SEPTIC INSTALL PLAN
TDH FARMS LLC
 3682 JENNINGS CHAPEL RD

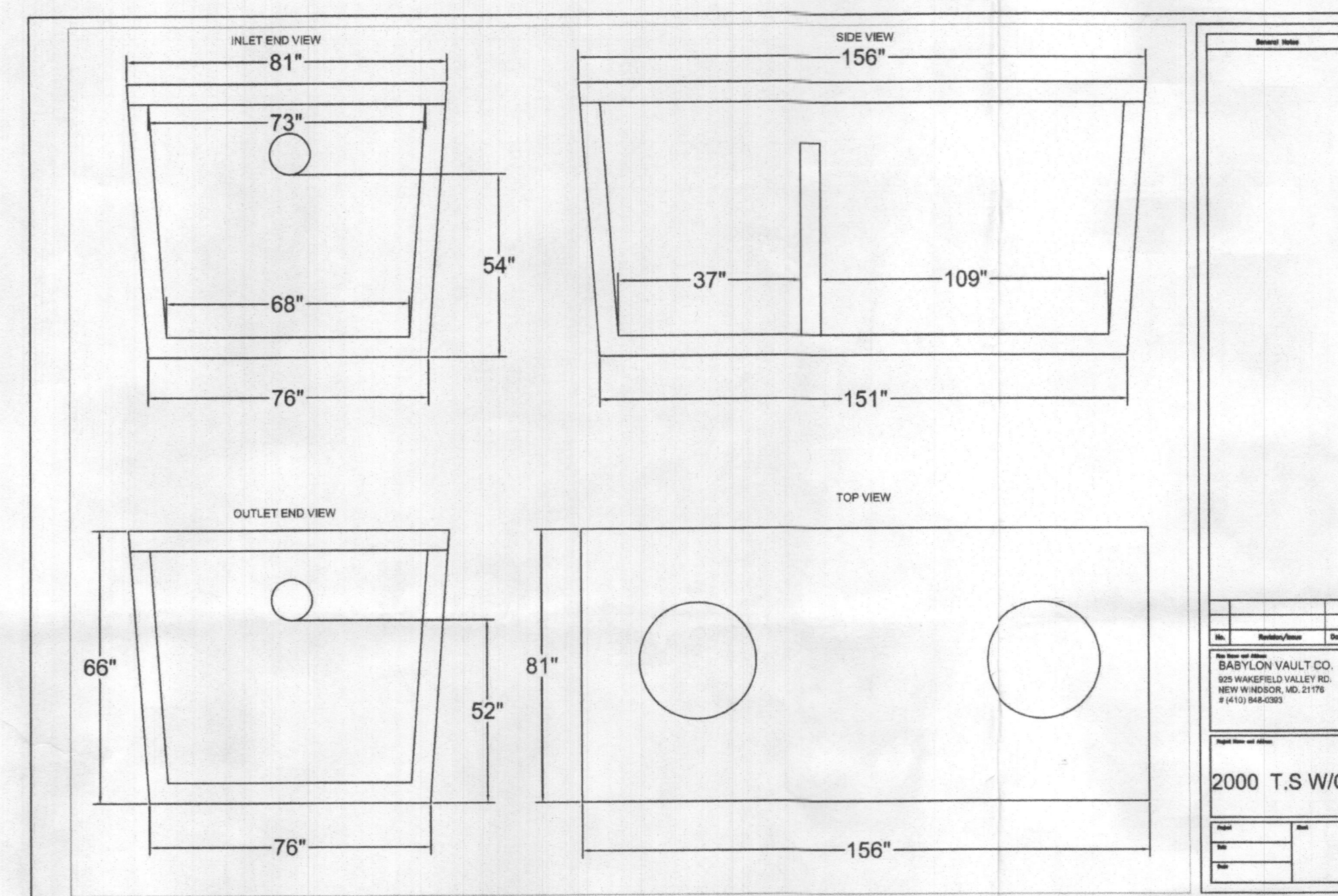
TAX MAP #20 GRID: 11 PARCEL: 12
 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: 1" = 200' DATE: JUNE 24, 2024

1. 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.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL HO-20-0011 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. 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.
5. ALL MUST BE APPROVED PRIOR TO BUILDING PERMIT APPROVAL (OSDS PLAN, INSTALLATION AND SEPTIC PERMIT).
6. CONTRACTOR TO PERFORM CONSTRUCTION PER CURRENT OSHA STANDARDS.

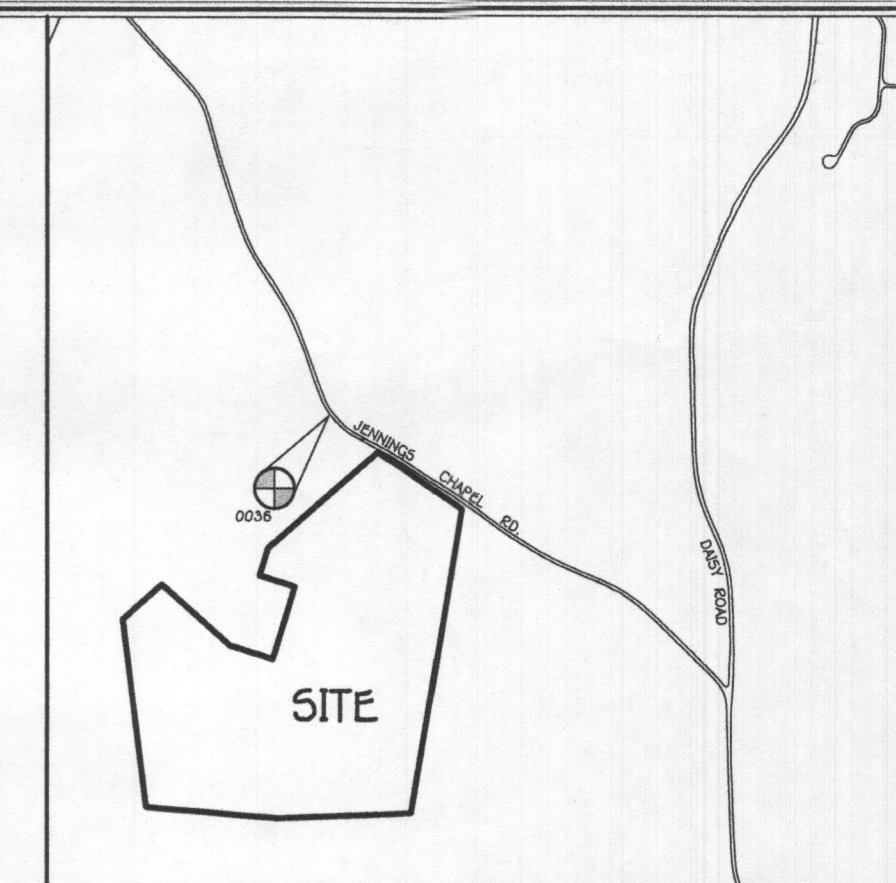
THE PURPOSE OF THIS SEPTIC INSTALL PLAN IS TO CHANGE THE LOCATION OF THE SEPTIC LINE FROM THE HOUSE AND UPDATE THE PROFILE.



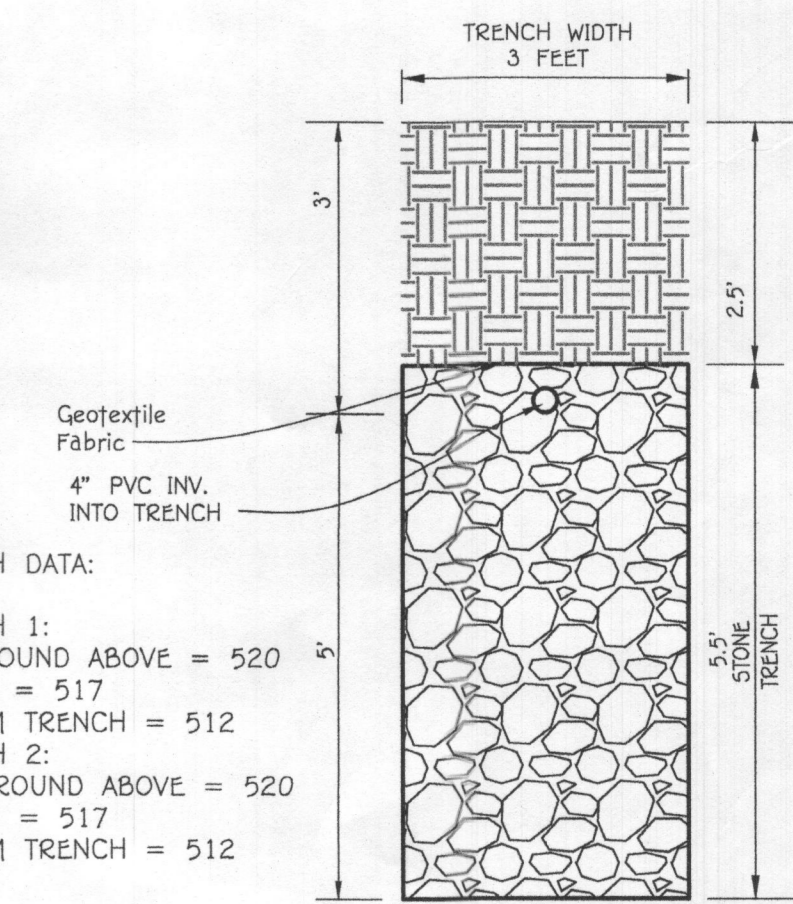
PLAN
DETAIL 1"=100'



2000 T.S.W.C.
BASTION VAULT CO.
500 W. HARRISVILLE ROAD
NEW WINDSOR, MD 21776
P.O. BOX 1000



VICINITY MAP
SCALE: 1" = 1200'



TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 520'
INV. IN = 517'
BOTTOM TRENCH = 512'
TRENCH 2:
EX. GROUND ABOVE = 520'
INV. IN = 517'
BOTTOM TRENCH = 512'

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 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+(2x5)) = 0.357
TRENCH LENGTH = 312.50 SF x 0.357 = 111.61 FEET
2 TRENCHES AT 55.80
TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

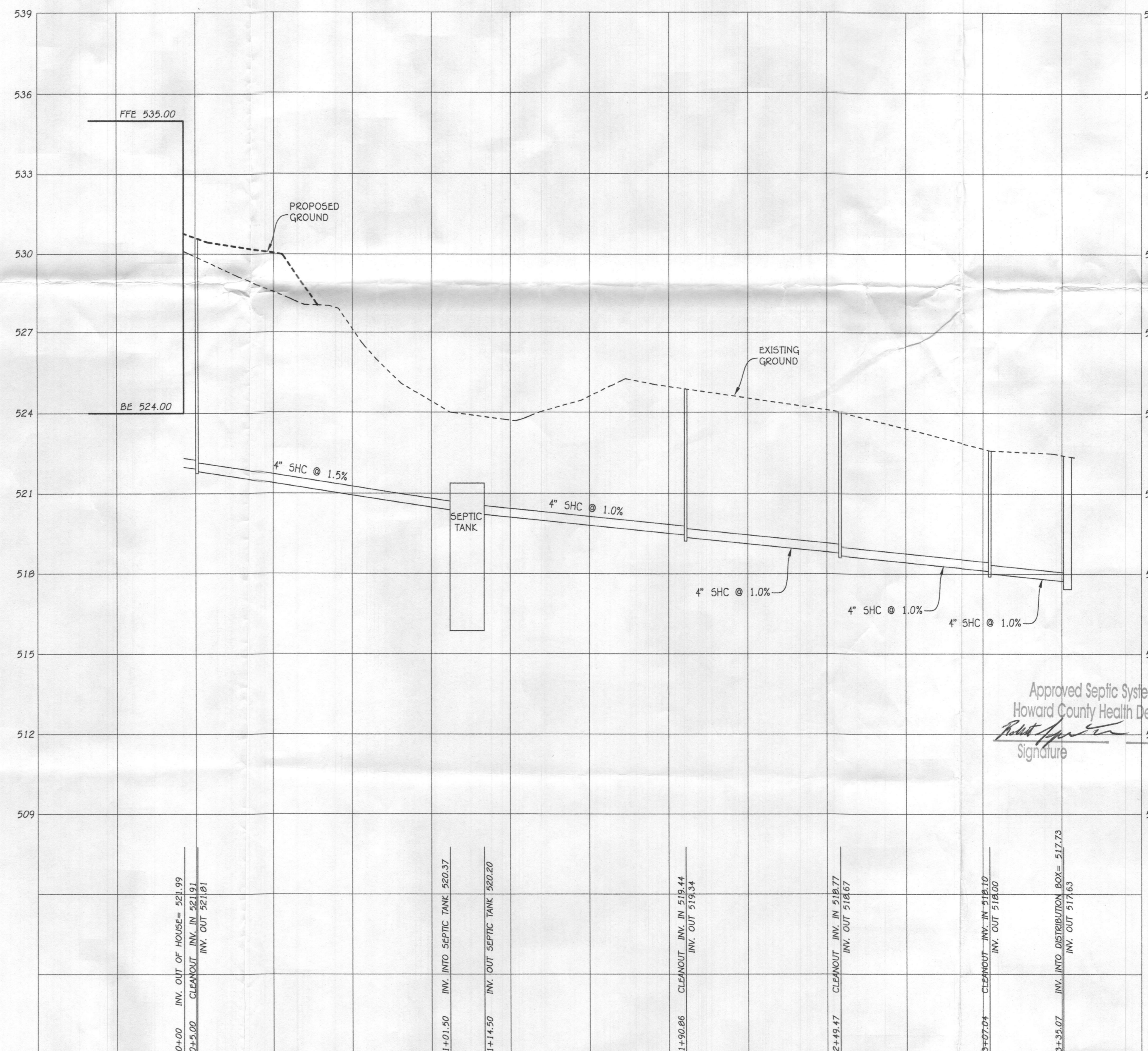
1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 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+(2x5)) = 0.357
TRENCH LENGTH = 312.50 SF x 0.357 = 111.61 FEET
2 TRENCHES AT 55.80
TRENCH SPACING = 2D+W = ((2x5) + 3) = 13' USE 13'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 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+(2x4)) = 0.333
TRENCH LENGTH = 312.50 SF x 0.333 = 104.17 FEET
2 TRENCHES AT 52.08
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

- FFE 535.00
- BSE 524.00
- INV. OUT OF HOUSE = 521.99
- EX. GROUND AT CLEANOUT #1 = 529.04
- INV. INTO CLEANOUT = 521.91
- INV. OUT OF CLEANOUT = 521.01
- EX. GROUND AT SEPTIC TANK = 524.00
- TOP OF SEPTIC TANK = 521.37
- INV. INTO SEPTIC TANK = 520.37
- INV. OUT OF SEPTIC TANK = 520.20
- EX. GROUND AT CLEANOUT #2 = 524.00
- INV. INTO CLEANOUT = 519.44
- INV. OUT OF CLEANOUT = 519.33
- EX. GROUND AT CLEANOUT #3 = 524.02
- INV. INTO CLEANOUT = 510.77
- INV. OUT OF CLEANOUT = 510.67
- EX. GROUND AT CLEANOUT #4 = 522.60
- INV. INTO CLEANOUT = 510.10
- INV. OUT OF CLEANOUT = 510.00
- EX. GROUND AT DISTRIBUTION BOX = 520.00
- INV. INTO DISTRIBUTION BOX = 517.73
- INV. OUT OF DISTRIBUTION BOX = 517.63



SEPTIC PROFILE
SCALE: 1"=30'

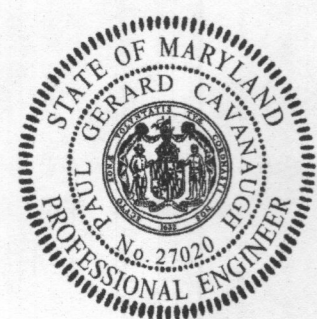
Approved Septic System Plan
Howard County Health Department
Robert A. ...
Signature
Date 7/15/2024

DAILY STABILIZATION NOTE:
CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY. STABILIZATION SHALL BE AS FOLLOWS:
1. FOR AREAS TO BE PAVED, THAT APPLICATION OF STONE BASE.
2. FOR AREAS TO BE VEGETATIVELY STABILIZED:
A. PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOO FOR ALL STEEP SLOPES, CHANNELS OR SWALES.
B. PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.
ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWN SLOPE SIDE.

PLAN
DETAIL 1"=50'

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. 70220, EXPIRATION DATE: 1/29/2026.



Lawrence ...
Signature of Professional Engineer
DATE July 1, 2024

OWNER/DEVELOPER

TUCKER HYMAN
3682 JENNINGS CHAPEL RD
WOODBINE MD 21797
301-798-6662

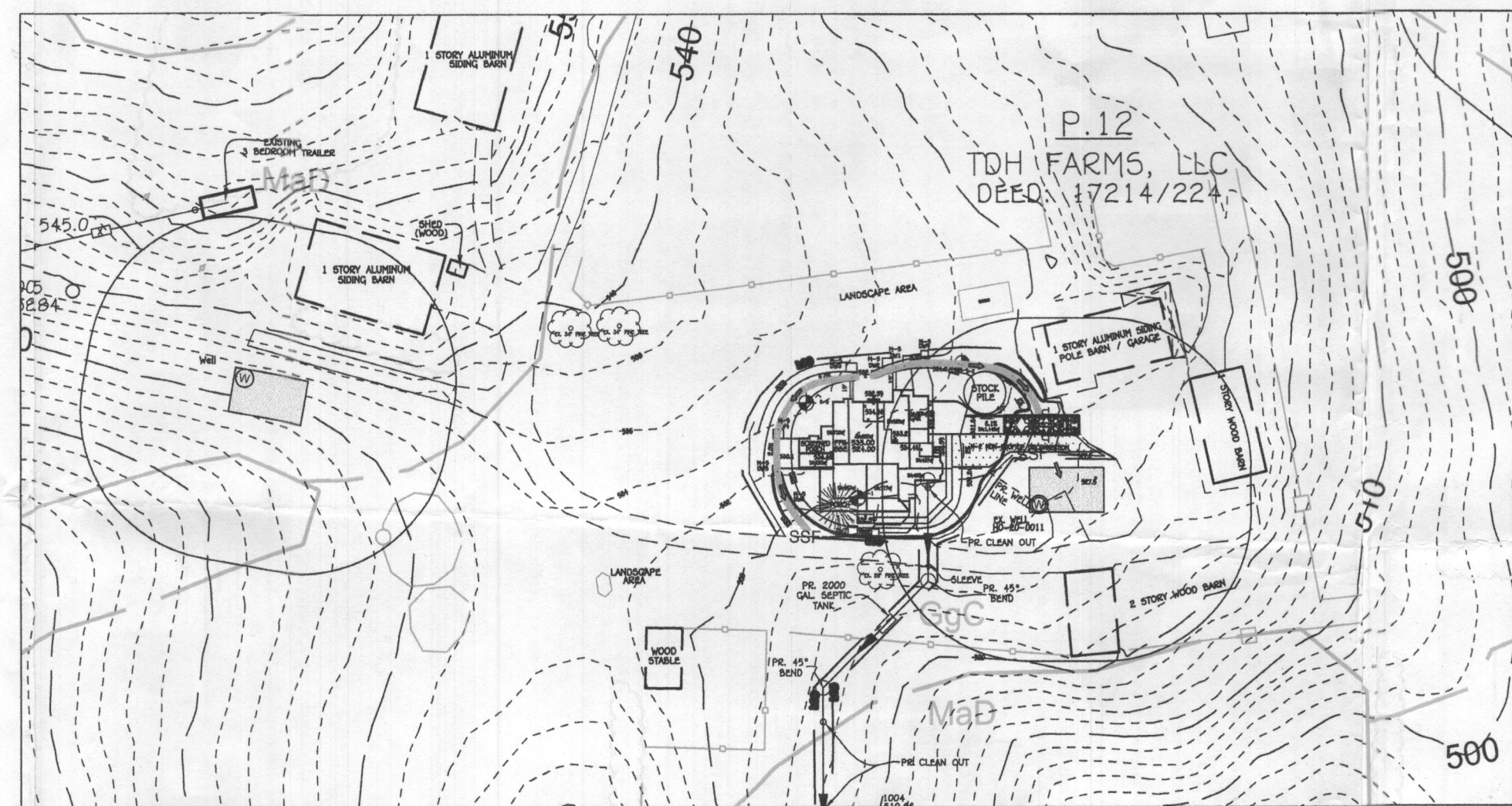
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2800

SEPTIC INSTALL PLAN
TDH FARMS LLC
3682 JENNINGS CHAPEL RD

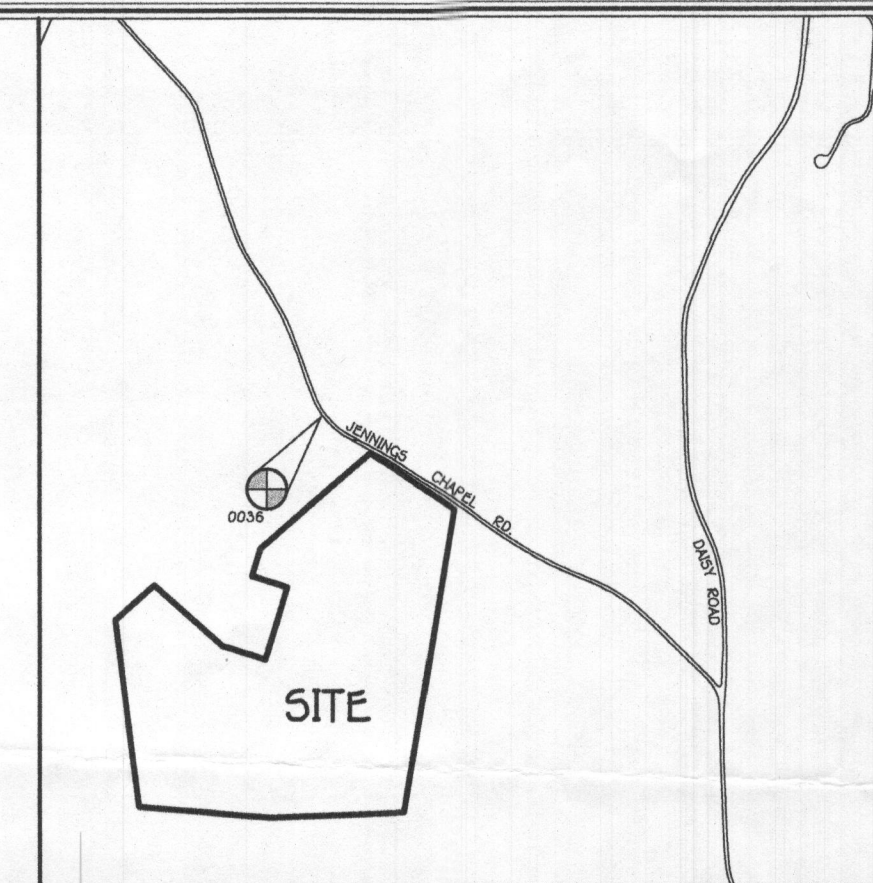
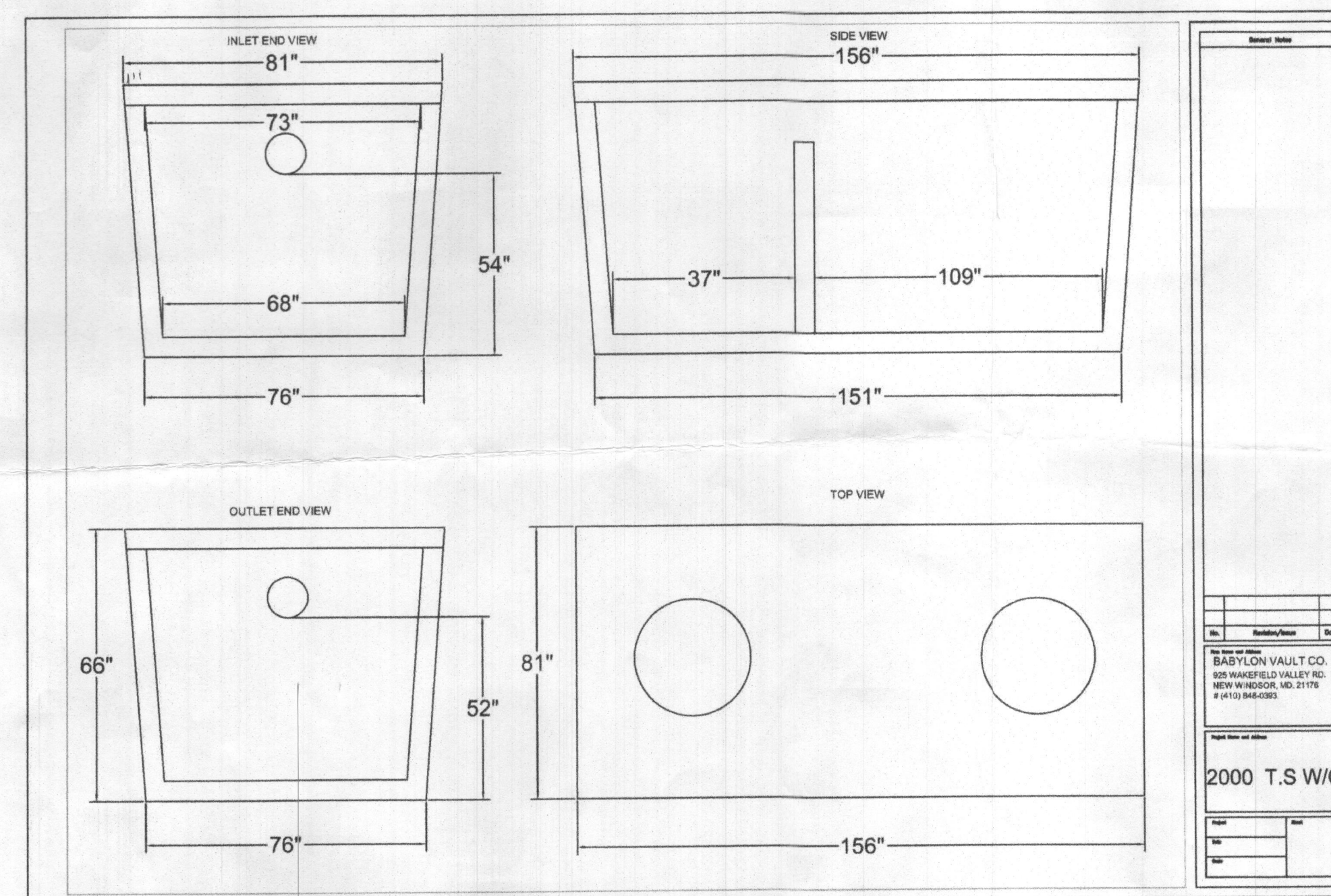
TAX MAP #20 GRID: 11 PARCEL: 12
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"= 200' DATE: JUNE 24, 2024

1. 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.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. THE WELL HO-20-0011 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. 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.
5. ALL MUST BE APPROVED PRIOR TO BUILDING PERMIT APPROVAL (OSDS PLAN, INSTALLATION AND SEPTIC PERMIT).
6. CONTRACTOR TO PERFORM CONSTRUCTION PER CURRENT OSHA STANDARDS.

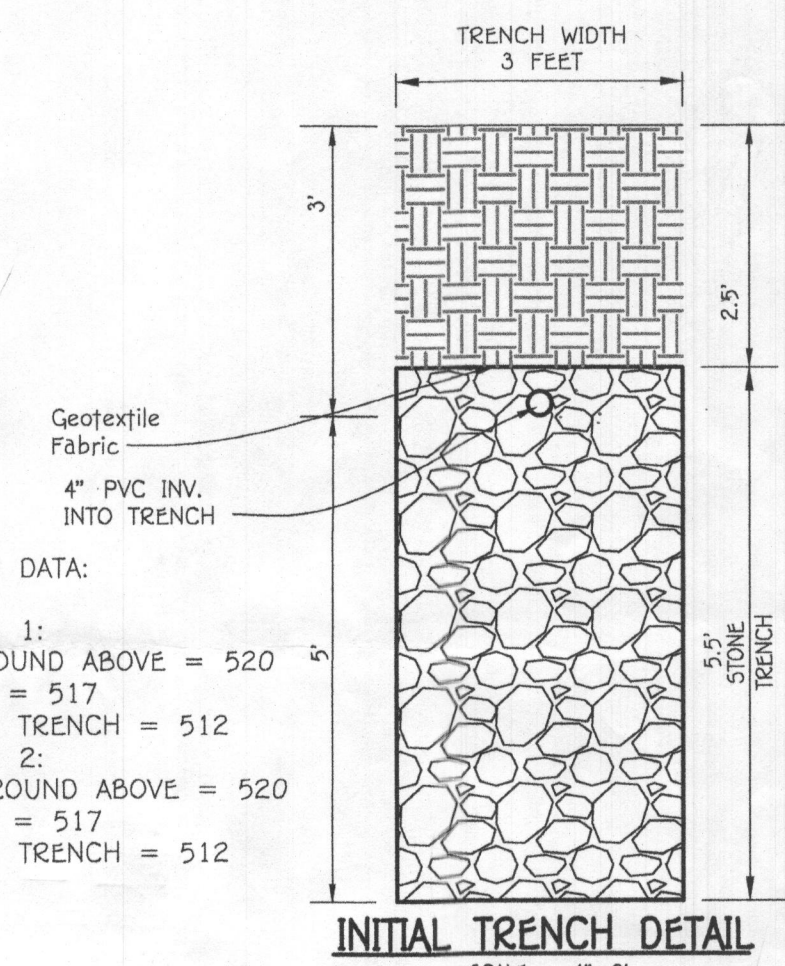
THE PURPOSE OF THIS SEPTIC INSTALL PLAN IS TO CHANGE THE LOCATION OF THE SEPTIC LINE FROM THE HOUSE AND UPDATE THE PROFILE.



PLAN
DETAIL 1"=100'



VICINITY MAP
SCALE: 1" = 1200'



TRENCH DATA:

- TRENCH 1:
EX. GROUND ABOVE = 520'
INV. IN = 517'
BOTTOM TRENCH = 512'
- TRENCH 2:
EX. GROUND ABOVE = 520'
INV. IN = 517'
BOTTOM TRENCH = 512'

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 5)) = 0.357$
TRENCH LENGTH = 312.50 SF X 0.357 = 111.61 FEET
2 TRENCHES AT 55.80'
TRENCH SPACING = $2D+W = ((2 \times 5) + 3) = 13'$ USE 13'

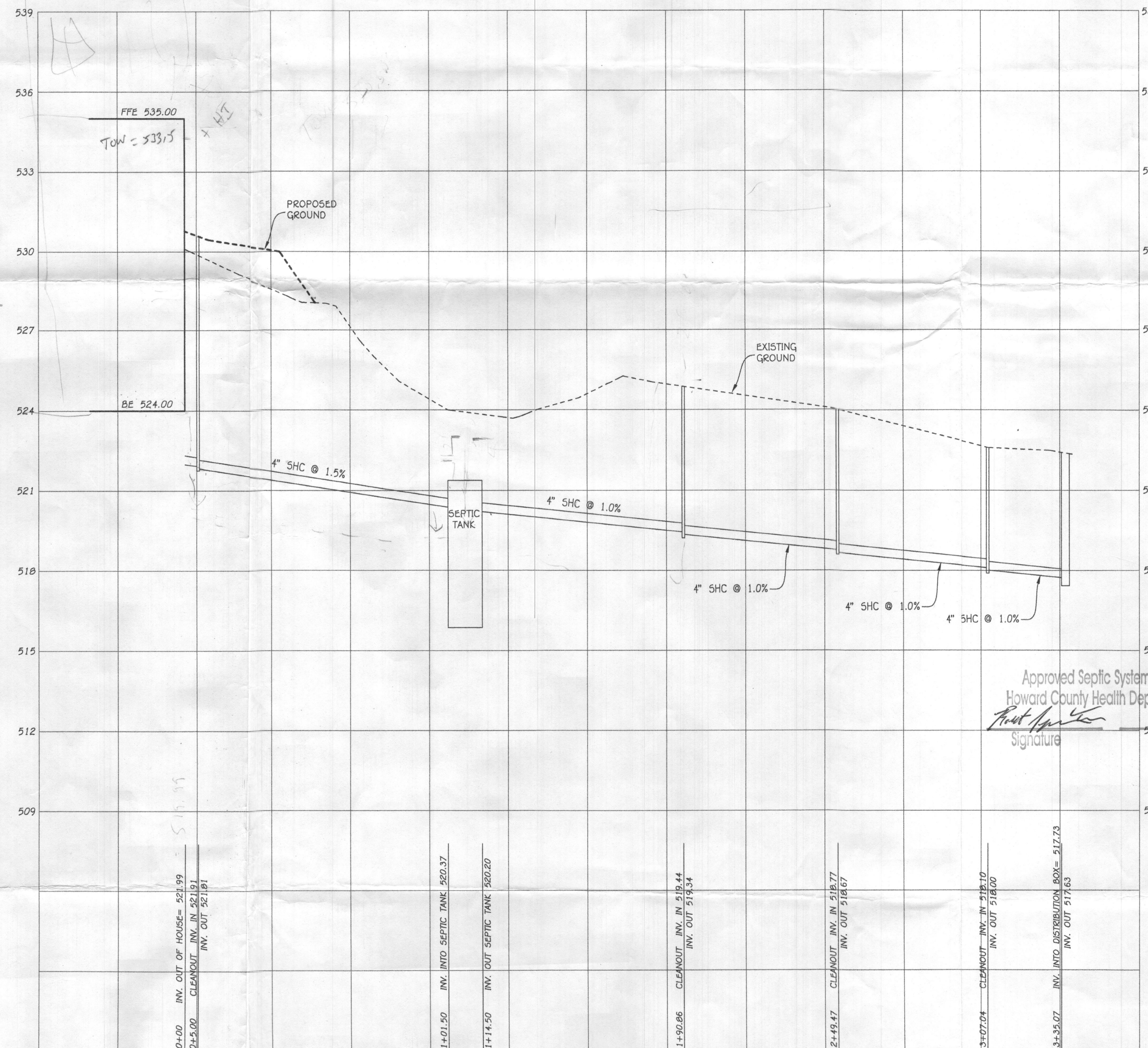
1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 3 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 5 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 5)) = 0.357$
TRENCH LENGTH = 312.50 SF X 0.357 = 111.61 FEET
2 TRENCHES AT 55.80'
TRENCH SPACING = $2D+W = ((2 \times 5) + 3) = 13'$ USE 13'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 4)) = 0.333$
TRENCH LENGTH = 312.50 SF X 0.333 = 104.17 FEET
2 TRENCHES AT 52.08'
TRENCH SPACING = $2D+W = ((2 \times 4) + 3) = 11'$ USE 11'

- FFE 535.00
BSE 524.00
INV. OUT OF HOUSE = 521.99
EX. GROUND AT CLEANOUT #1 = 529.04
INV. INTO CLEANOUT = 521.91
INV. OUT OF CLEANOUT = 521.01
EX. GROUND AT SEPTIC TANK = 524.00
TOP OF SEPTIC TANK = 521.37
INV. INTO SEPTIC TANK = 520.37
INV. OUT OF SEPTIC TANK = 520.20
EX. GROUND AT CLEANOUT #2 = 524.00
INV. INTO CLEANOUT = 519.44
INV. OUT OF CLEANOUT = 519.33
EX. GROUND AT CLEANOUT #3 = 524.02
INV. INTO CLEANOUT = 510.77
INV. OUT OF CLEANOUT = 510.67
EX. GROUND AT CLEANOUT #4 = 522.60
INV. INTO CLEANOUT = 510.10
INV. OUT OF CLEANOUT = 510.00
EX. GROUND AT DISTRIBUTION BOX = 520.00
INV. INTO DISTRIBUTION BOX = 517.73
INV. OUT OF DISTRIBUTION BOX = 517.63



SEPTIC PROFILE
SCALE: 1"=30'

DAILY STABILIZATION NOTE:
CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY. STABILIZATION SHALL BE AS FOLLOWS:
1. FOR AREAS TO BE PAVED, THAT APPLICATION OF STONE BASE.
2. FOR AREAS TO BE VEGETATIVELY STABILIZED:
A. PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS OR SWALES.
B. PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.
ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWN SLOPE SIDE.

PLAN
DETAIL 1"=50'

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. 27020, EXPIRATION DATE: 1/29/2026.



Signature of Professional Engineer
Date: July 1, 2024

OWNER/DEVELOPER

TUCKER HYMAN
3682 JENNINGS CHAPEL RD
WOODBINE MD 21797
301-798-6662

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21114
(410) 461-2895

SEPTIC INSTALL PLAN
TDH FARMS LLC
3682 JENNINGS CHAPEL RD

TAX MAP #20 GRID: 11 PARCEL: 12
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=200' DATE: JUNE 24, 2024