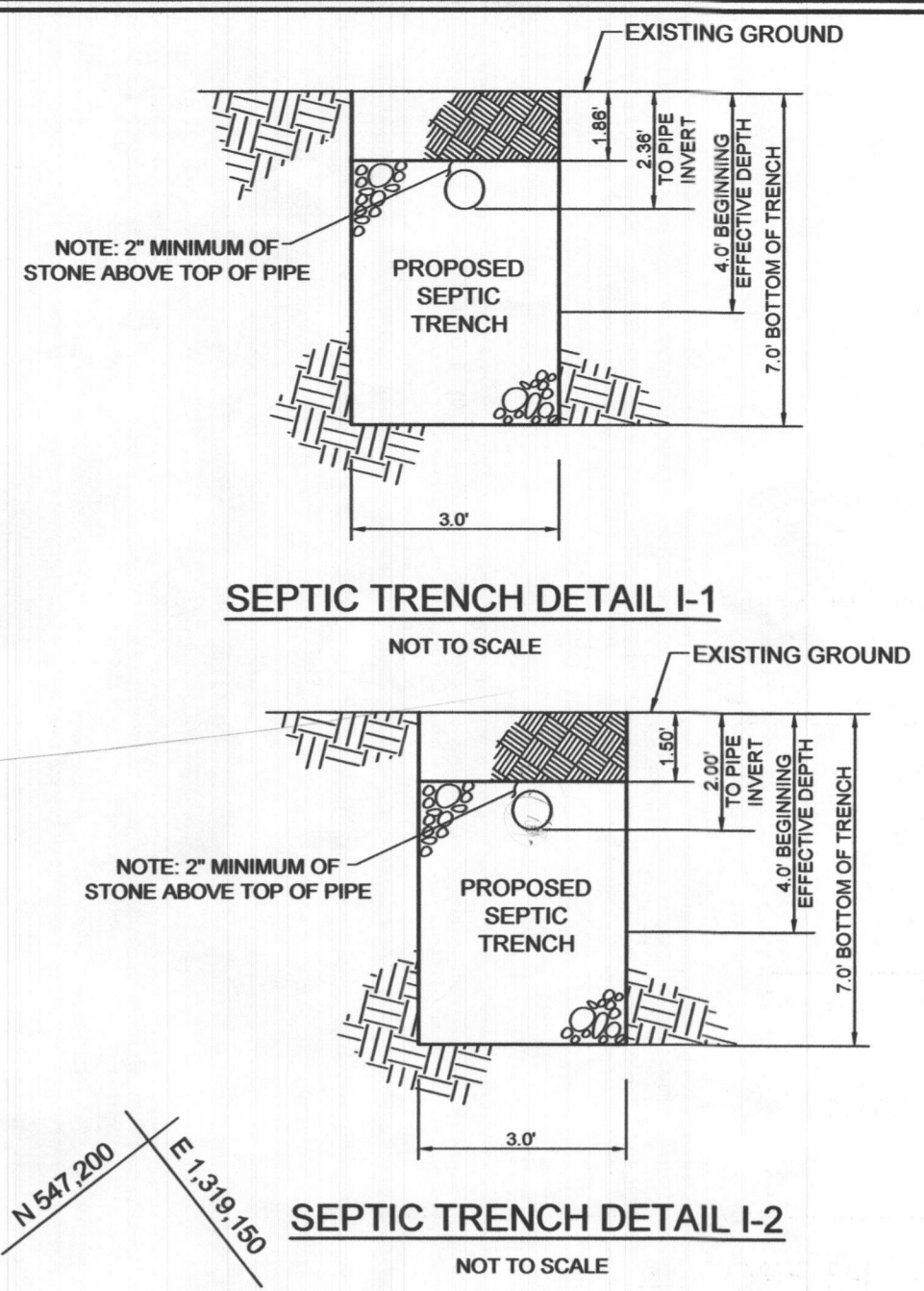
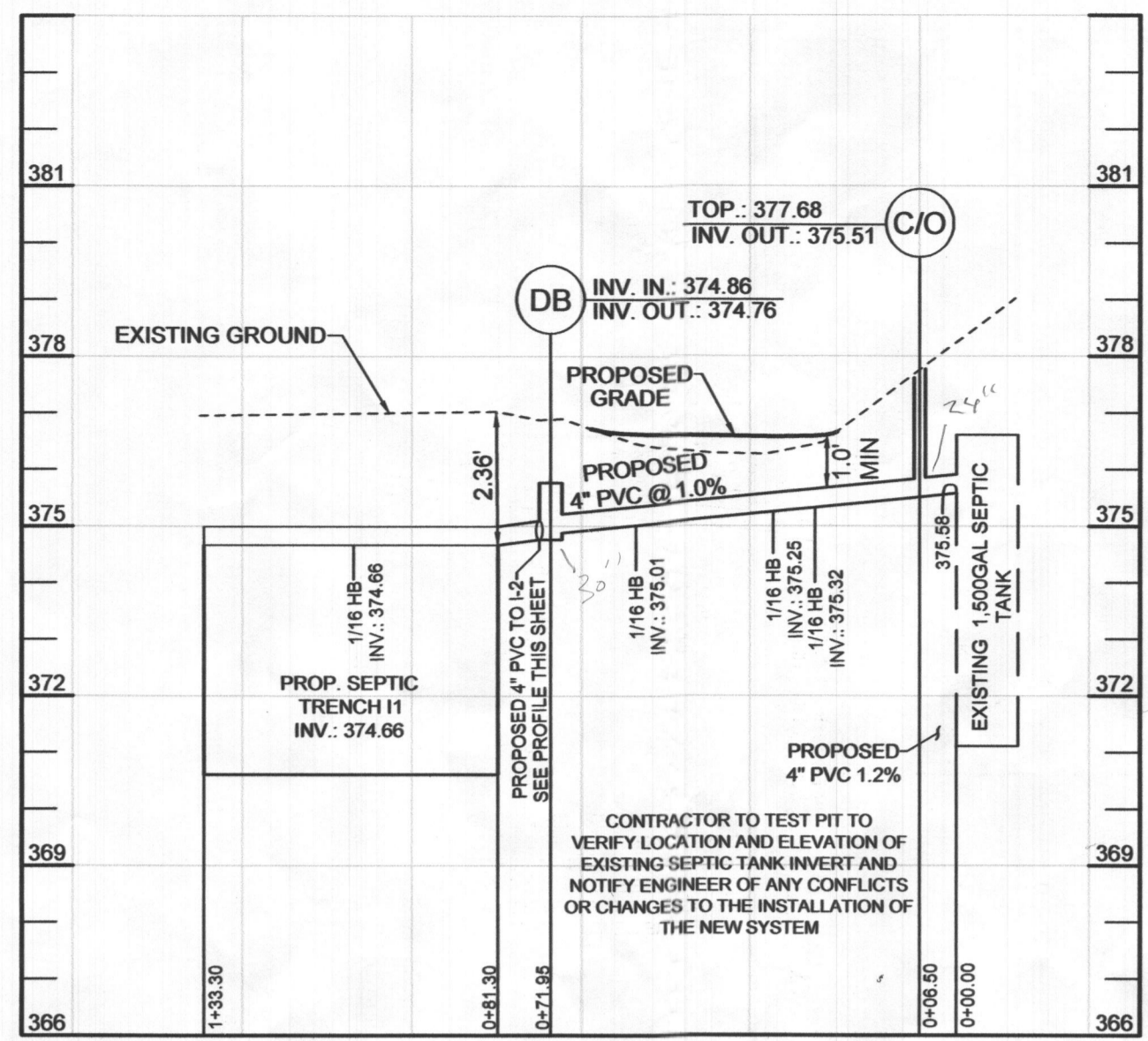
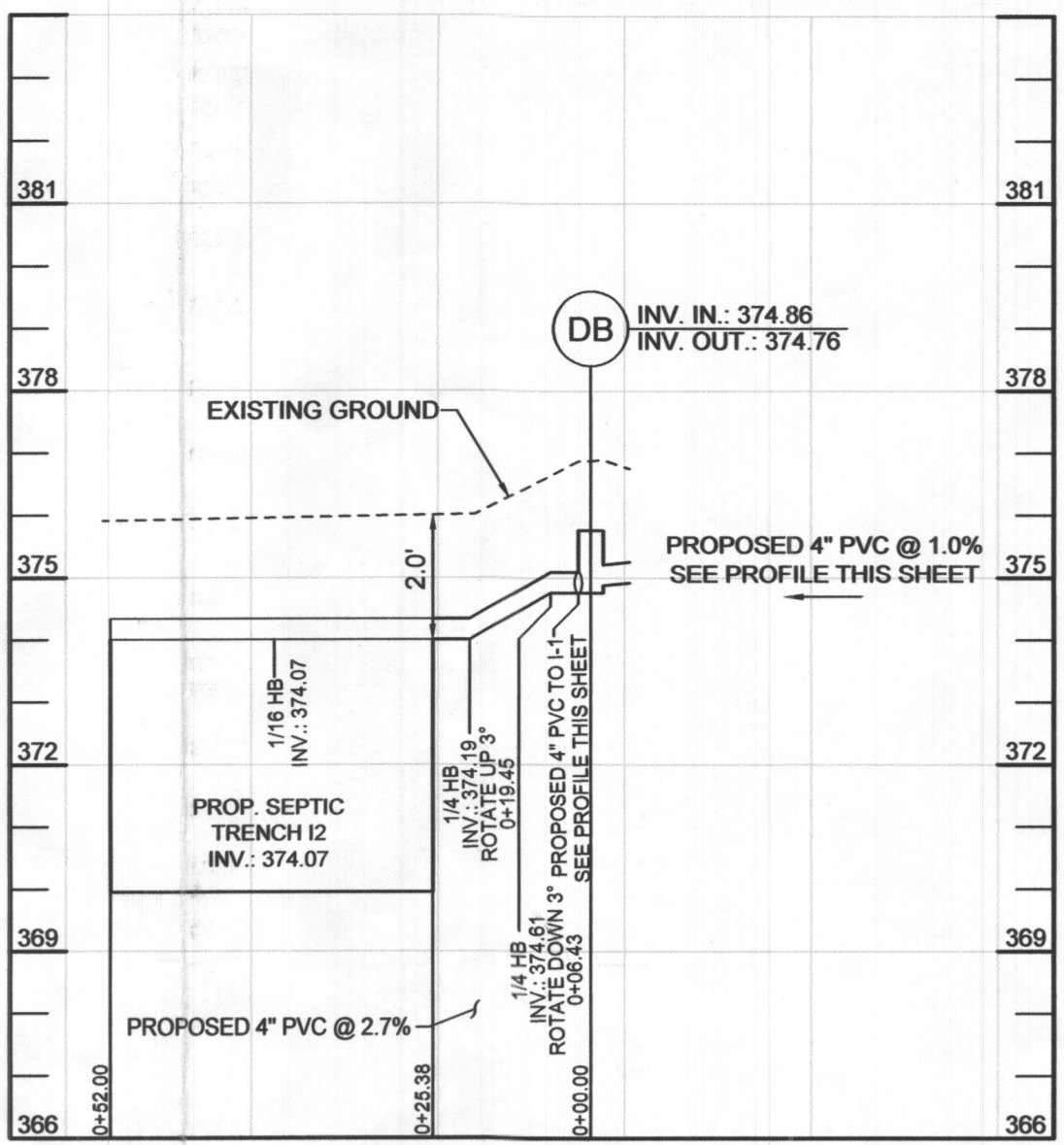
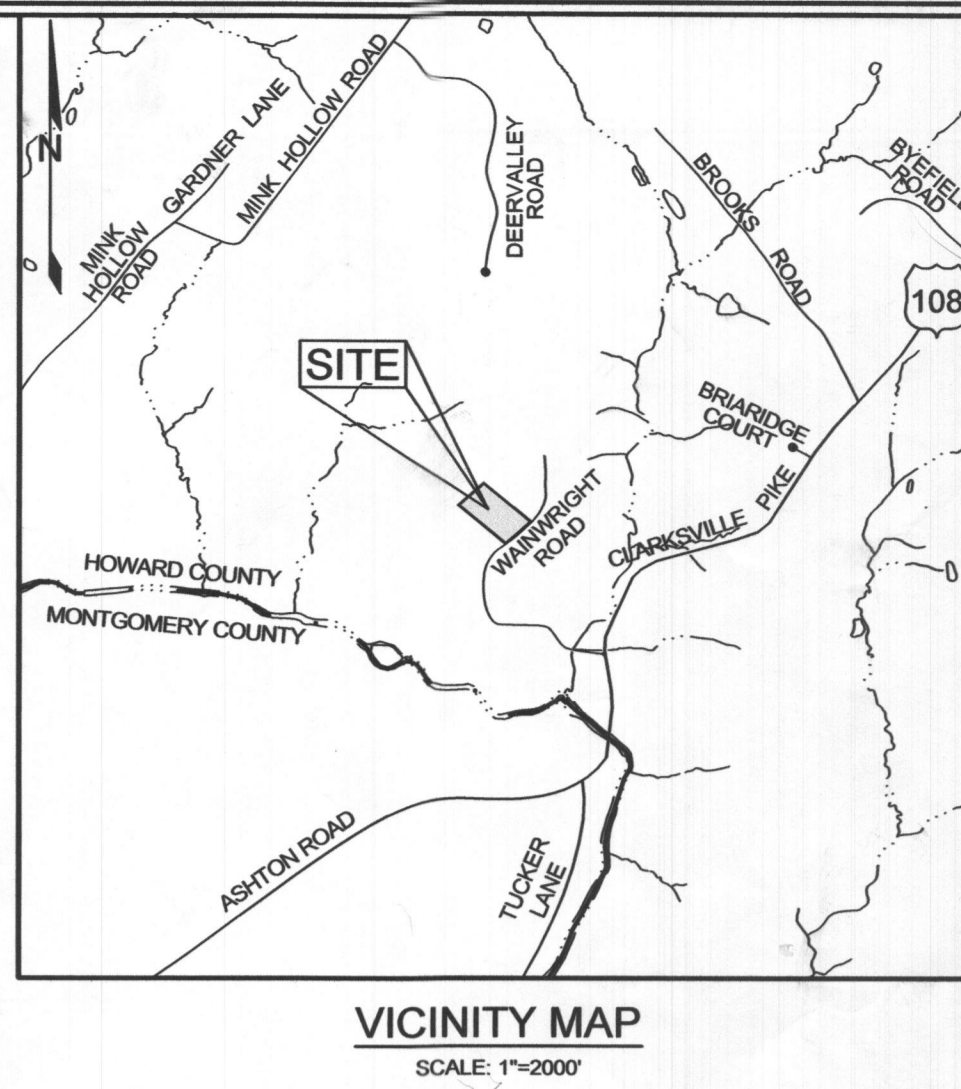


SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	'K' FACTOR
GaC	GAILA LOAM, 8 TO 15 PERCENT SLOPES	B	0.55
GmC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES	CD	0.37
MaD	MAJOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.28

- NOTES:
- 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE; NATURAL RESOURCES CONSERVATION SERVICE; WEB SOIL SURVEY.
 - 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



- LEGEND**
- EXISTING CONTOUR(GIS)
 - EXISTING CONTOUR(FIELD RUN)
 - PROPOSED CONTOUR
 - EXISTING SPOT ELEVATION
 - EXISTING TREELINE
 - PROPOSED TREELINE
 - EXISTING TREE
 - EXISTING UTILITY POLE
 - EXISTING INTERMITTENT STREAM
 - EXISTING SOILS
 - EXISTING OVERHEAD WIRE
 - APPROXIMATE EXISTING TRENCH LOCATION
 - PERCOLATION TEST BORING: PASSED
 - PERCOLATION TEST BORING: FAILED
 - FUTURE DRILLED WELL REPLACEMENT LOCATION
 - EXISTING JET WELL LOCATION



SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

- INITIAL SYSTEM**
- APPLICATION RATE: 1.2
 - EFFECTIVE AREA BEGINNING DEPTH: 4.0'
 - BOTTOM MAXIMUM DEPTH: 7.0'
 - TRENCH SPACING (2D+W) 2 X 3 + 3 = 9 (USE 10)

- 1. DESIGN FLOW:**
- 5 BEDROOMS AT 150 GPD
 - 5x150 GPD = 750 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (750 GPD) / APPLICATION RATE (1.2) = 625 SF
- 3. SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3.0'
 - TRENCH EFFECTIVE DEPTH (D) = 3.0'
 - (W+2) / (W+1+2D) X 100 = 50% (USE 50%)
- 4. LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (625) X SIDEWALL REDUCTION CREDIT (50%) / TRENCH WIDTH (3.0') = 104'
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 104'**
- TWO TRENCHES 52.0 LF EACH
- 6. EXISTING GRADE:**
- TRENCH 11: 377.02
 - TRENCH 12: 374.07
- EXISTING GRADE:**
- TRENCH 11: 374.66
 - TRENCH 12: 376.07
- INVERT:**
- TRENCH 11: 374.07
 - TRENCH 12: 374.07

- FIRST REPLACEMENT SYSTEM:**
- APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 5.0'
 - BOTTOM MAXIMUM DEPTH: 6.0'
 - TRENCH SPACING (2D+W) 2 X 3 + 3 = 5 (USE 10)

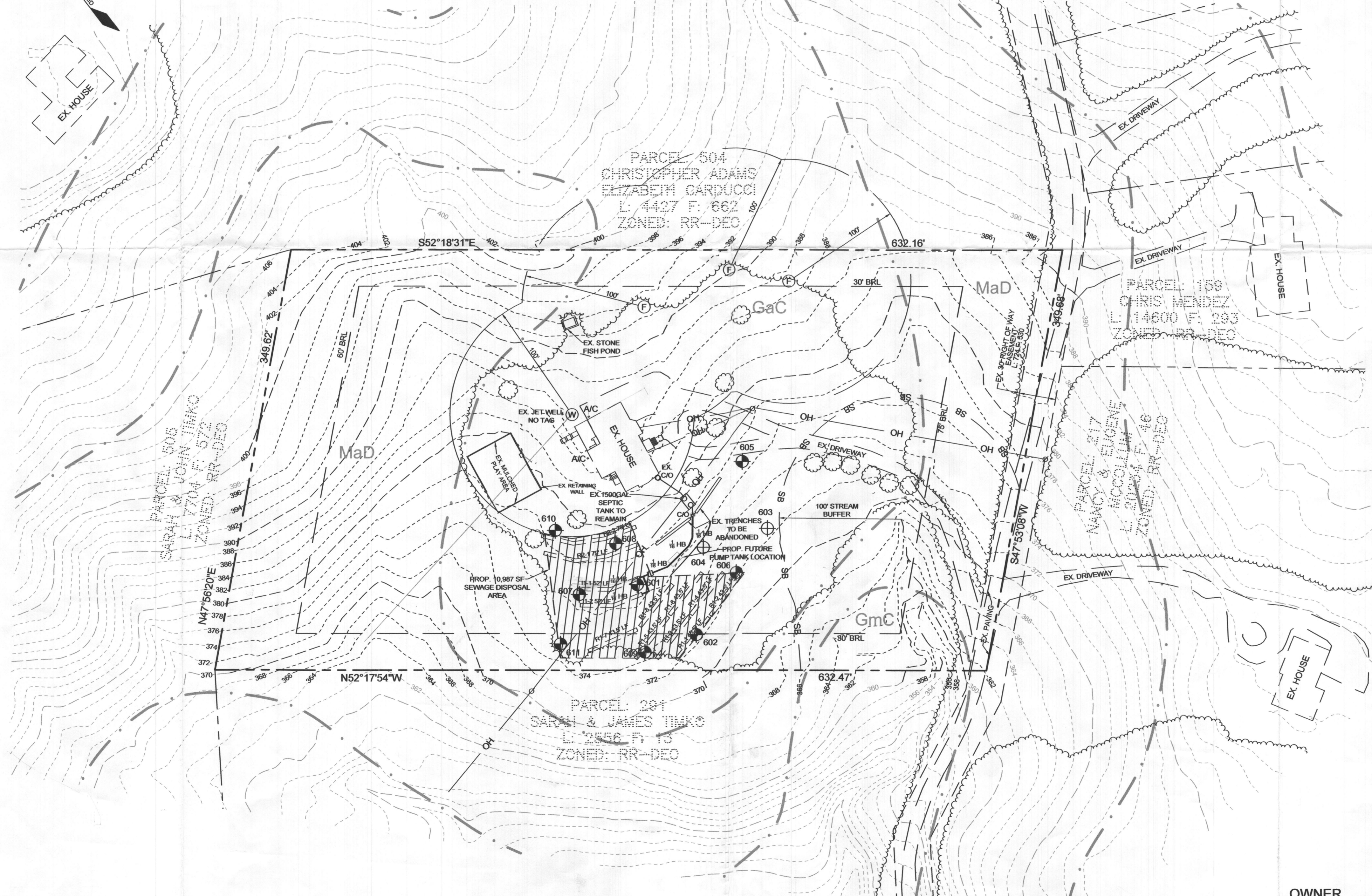
- 1. DESIGN FLOW:**
- 5 BEDROOMS AT 150 GPD
 - 5x150 GPD = 750 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 1,250 SF
- 3. SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3.0'
 - TRENCH EFFECTIVE DEPTH (D) = 1.0'
 - (W+2) / (W+1+2D) X 100 = 83.33% (USE 83%)
- 4. LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (1,250) X SIDEWALL REDUCTION CREDIT (83%) / TRENCH WIDTH (3.0') = 345.83'
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 345.83'**
- EIGHT TRENCHES 43.5 LF EACH
- 6. EXISTING GRADE:**
- TRENCH R1-1: 372.50
 - TRENCH R1-2: 370.00
 - TRENCH R1-3: 371.69
 - TRENCH R1-4: 373.49
 - TRENCH R1-5: 371.49
 - TRENCH R1-6: 372.36
 - TRENCH R1-7: 374.73
 - TRENCH R1-8: 372.73
 - TRENCH R1-9: 375.02
 - TRENCH R1-10: 373.02
 - TRENCH R1-11: 375.36
 - TRENCH R1-12: 373.36
- EXISTING GRADE:**
- TRENCH R1-1: 370.00
 - TRENCH R1-2: 371.69
 - TRENCH R1-3: 373.49
 - TRENCH R1-4: 371.49
 - TRENCH R1-5: 372.36
 - TRENCH R1-6: 374.73
 - TRENCH R1-7: 372.73
 - TRENCH R1-8: 375.02
 - TRENCH R1-9: 373.02
 - TRENCH R1-10: 375.36
 - TRENCH R1-11: 373.36
 - TRENCH R1-12: 370.00
- INVERT:**
- TRENCH R1-1: 370.00
 - TRENCH R1-2: 371.69
 - TRENCH R1-3: 373.49
 - TRENCH R1-4: 371.49
 - TRENCH R1-5: 372.36
 - TRENCH R1-6: 374.73
 - TRENCH R1-7: 372.73
 - TRENCH R1-8: 375.02
 - TRENCH R1-9: 373.02
 - TRENCH R1-10: 375.36
 - TRENCH R1-11: 373.36
 - TRENCH R1-12: 370.00

- SECOND REPLACEMENT SYSTEM:**
- APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 4.0'
 - BOTTOM MAXIMUM DEPTH: 7.0'
 - TRENCH SPACING (2D+W) 2 X 3 + 3 = 9 (USE 10)

- 1. DESIGN FLOW:**
- 5 BEDROOMS AT 150 GPD
 - 5x150 GPD = 750 GPD
- 2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:**
- DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 937.50 SF
- 3. SIDEWALL REDUCTION CREDIT:**
- TRENCH WIDTH (W) = 3.0'
 - TRENCH EFFECTIVE DEPTH (D) = 3.0'
 - (W+2) / (W+1+2D) X 100 = 50.00%
- 4. LINEAR LENGTH OF TRENCH REQUIRED:**
- DRAIN FIELD SQUARE FOOTAGE (937.50) X SIDEWALL REDUCTION CREDIT (50%) / TRENCH WIDTH (3.0') = 156.25'
- 5. LINEAR LENGTH OF TRENCH PROVIDED = 156.25'**
- TWO TRENCHES 79 LF EACH
- 6. EXISTING GRADE:**
- TRENCH R2-1: 378.19
 - TRENCH R2-2: 376.19
- EXISTING GRADE:**
- TRENCH R2-1: 379.08
 - TRENCH R2-2: 377.08
- INVERT:**
- TRENCH R2-1: 377.08
 - TRENCH R2-2: 377.08



N 547.200
E 1,319.150



PLAN VIEW
SCALE: 1"=50'

GENERAL NOTES

1. SUBJECT PROPERTY ZONED RR-DEO PER 1006/2013 COMPREHENSIVE ZONING PLAN.
2. TOTAL AREA OF PROPERTY = 4.89 AC ±
3. DEED REFERENCE: LIBER: 21620 FOLIO: 217
4. PROPERTY ADDRESS: 13071 WAINWRIGHT ROAD, HIGHLAND MD 20777
5. PRIVATE WATER AND PRIVATE SEPTIC WILL BE USED WITHIN THIS SITE.
6. THE BOUNDARY SHOWN HERE ON IS BASED ON A BOUNDARY SURVEY PERFORMED BY SEG LAND SURVEYING, LLC IN APRIL OF 2023.
7. THE TOPOGRAPHY SHOWN WITHIN THE DEVELOPMENT AREA IS BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY SEG LAND SURVEYING, LLC IN APRIL OF 2023. TOPOGRAPHY OUTSIDE OF THE AREA OF DEVELOPMENT IS BASED ON HOWARD COUNTY GIS FLOWN IN 2018.
8. SILL ENGINEERING GROUP, LLC HAS COMPLETED A FIELD REVIEW AND ASSESSMENT OF THE REFERENCED PROJECT SITE. AN INTERMITTENT STREAM WAS FOUND TO RUN PARALLEL TO WAINWRIGHT ROAD INSIDE OF A DEEP RAVINE.
9. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT
10. THIS AREA DESIGNATES A PRIVATE SEWAGE AREA, AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL, (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA 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.
11. ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN-GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA HAVE BEEN FIELD LOCATED.
12. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
13. EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
14. ANY CHANGES TO THE PRIVATE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
15. EXISTING SEPTIC DRAIN FIELD WILL BE PROPERLY ABANDONED & NEW SEPTIC DRAIN FIELDS WILL BE INSTALLED TO ACCOMMODATE A 5 BEDROOM DWELLING. EXISTING SEPTIC TANK WILL REMAIN. A PUMP PIT WILL BE REQUIRED FOR A FUTURE REPLACEMENT SYSTEM. PLEASE SEE LOCATION THIS SHEET.
16. FINAL BUILDING PERMIT APPROVAL WILL NOT BE GIVEN UNTIL A ON-SITE SEWAGE DISPOSAL SYSTEM PLAN IS APPROVED AND THE APPROVED SEPTIC SYSTEM HAS BEEN INSTALLED & INSPECTED.
17. CURRENT PROPERTY OWNERS ARE ALLOWED TO RETAIN THEIR JET WELL BASED SOLELY ON THE FACT THAT IT HAD UNDERGONE WATER SAMPLING TESTS IN 2022 & PASSED

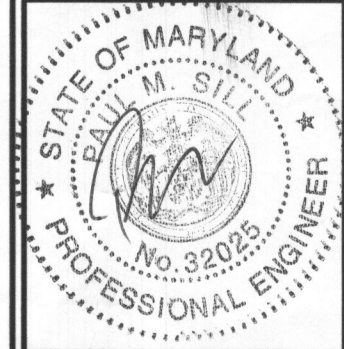
Approved Septic System Plan
Howard County Health Department
Signature: [Signature] Date: 7/19/24

PERCOLATION HOLE ELEVATIONS	
PERC HOLE	ELEVATION
601	376.90
602	372.47
603	372.23
604	374.63
605	376.48
606	371.86
607	376.79
608	378.99
609	374.29
610	378.69
611	374.56

ON-SITE SEWAGE DISPOSAL SYSTEM PLAN

GRAY PROPERTY
13071 WAINWRIGHT ROAD

TAX MAP 40 GRID 9
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PARCEL 39



SILL ENGINEERING GROUP, LLC
16005 Frederick Road, 2nd Floor
Woodbine, Maryland 21797
Phone: 443.325.5076
Fax: 410.696.2022
Email: info@sillengineering.com
Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: SZS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 15, 2024
PROJECT #: 23-027
SHEET #: 1 of 1

OWNER
OLIVER & TIFFANY GRAY
13071 WAINWRIGHT ROAD
HIGHLAND, MARYLAND 20777

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. 82026, EXPIRATION DATE: JUNE 30, 2025.

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	K _f FACTOR
GaC	GAILA LOAM, 8 TO 16 PERCENT SLOPES	B	0.55
GmC	GLENELO SILT LOAM, 8 TO 16 PERCENT SLOPES	GD	0.37
MaD	MANOR LOAM, 15 TO 25 PERCENT SLOPES	B	0.29

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR "K" GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

SEPTIC SYSTEM TRENCH DESIGN SPECIFICATIONS

INITIAL SYSTEM
 - APPLICATION RATE: 1.2
 - EFFECTIVE AREA BEGINNING DEPTH: 4.0'
 - BOTTOM MAXIMUM DEPTH: 7.0'
 - TRENCH SPACING (2D+W) 2 X 3 + 3 = 9 (USE 10)

1. DESIGN FLOW:
 - 5 BEDROOMS AT 150 GPD
 - 5150 GPD = 750 GPD
2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
 - DESIGN FLOW (750 GPD) / APPLICATION RATE (1.2) = 625 SF
3. SIDEWALL REDUCTION CREDIT:
 - TRENCH WIDTH (W) = 3.0'
 - TRENCH EFFECTIVE DEPTH (D) = 3.0'
 - (W/D) (W+H/2) X 100 = 50% (USE 50%)
4. LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAIN FIELD SQUARE FOOTAGE (625) X SIDEWALL REDUCTION CREDIT (50%) / TRENCH WIDTH (3.0') = 104'
5. LINEAR LENGTH OF TRENCH PROVIDED = 104'
 - TWO TRENCHES 52.0 LF EACH

6. EXISTING GRADE: TRENCH 11: 377.02
 TRENCH 12: 374.07
INVERT: TRENCH 11: 374.66
 TRENCH 12: 374.07

FIRST REPLACEMENT SYSTEM
 - APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 5.0'
 - BOTTOM MAXIMUM DEPTH: 6.0'
 - TRENCH SPACING (2D+W) 2 X 1 + 3 = 5 (USE 10)

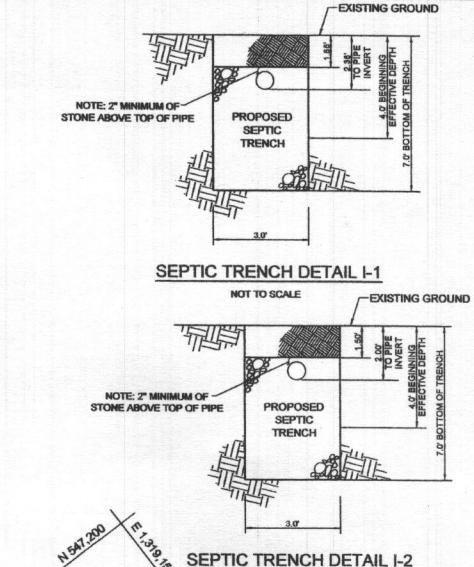
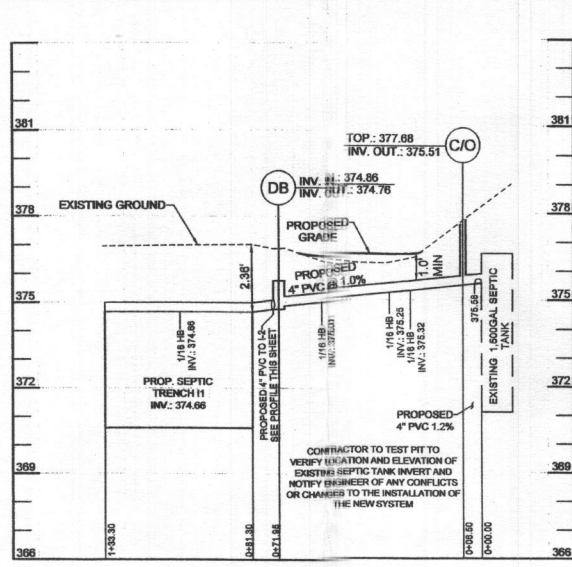
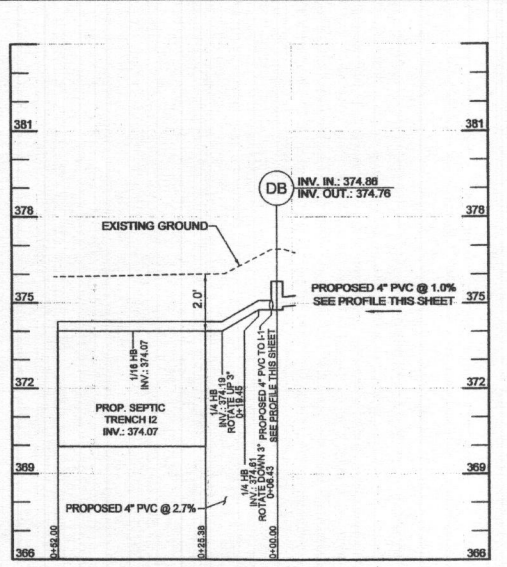
1. DESIGN FLOW:
 - 5 BEDROOMS AT 150 GPD
 - 5150 GPD = 750 GPD
2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
 - DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 938 SF
3. SIDEWALL REDUCTION CREDIT:
 - TRENCH WIDTH (W) = 3.0'
 - TRENCH EFFECTIVE DEPTH (D) = 1.0'
 - (W/D) (W+H/2) X 100 = 83.33% (USE 83%)
4. LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAIN FIELD SQUARE FOOTAGE (938) X SIDEWALL REDUCTION CREDIT (83%) / TRENCH WIDTH (3.0') = 365.82'
5. LINEAR LENGTH OF TRENCH PROVIDED = 365.82'
 - EIGHT TRENCHES 45.7 LF EACH

6. EXISTING GRADE: TRENCH R1-1: 372.50
 TRENCH R1-2: 370.00
 TRENCH R1-3: 373.09
 TRENCH R1-4: 371.69
 TRENCH R1-5: 372.49
 TRENCH R1-6: 374.38
 TRENCH R1-7: 373.38
 TRENCH R1-8: 374.73
 TRENCH R1-9: 372.73
 TRENCH R1-10: 373.02
 TRENCH R1-11: 373.02
 TRENCH R1-12: 373.38
 TRENCH R1-13: 375.38
 TRENCH R1-14: 373.38

SECOND REPLACEMENT SYSTEM
 - APPLICATION RATE: 0.8
 - EFFECTIVE AREA BEGINNING DEPTH: 4.0'
 - BOTTOM MAXIMUM DEPTH: 7.0'
 - TRENCH SPACING (2D+W) 2 X 3 + 3 = 9 (USE 10)

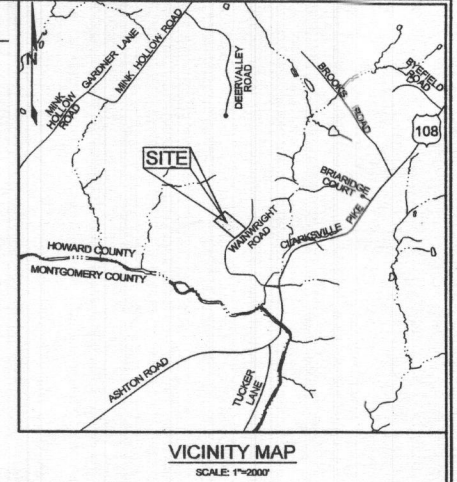
1. DESIGN FLOW:
 - 5 BEDROOMS AT 150 GPD
 - 5150 GPD = 750 GPD
2. SQUARE FOOTAGE OF DRAIN FIELD REQUIRED:
 - DESIGN FLOW (750 GPD) / APPLICATION RATE (0.8) = 938 SF
3. SIDEWALL REDUCTION CREDIT:
 - TRENCH WIDTH (W) = 3.0'
 - TRENCH EFFECTIVE DEPTH (D) = 3.0'
 - (W/D) (W+H/2) X 100 = 50.0%
4. LINEAR LENGTH OF TRENCH REQUIRED:
 - DRAIN FIELD SQUARE FOOTAGE (938) X SIDEWALL REDUCTION CREDIT (50%) / TRENCH WIDTH (3.0') = 198.27'
5. LINEAR LENGTH OF TRENCH PROVIDED = 198.27'
 - TWO TRENCHES 99.1 LF EACH

6. EXISTING GRADE: TRENCH R2-1: 378.19
 TRENCH R2-2: 379.08
 TRENCH R2-3: 377.08



LEGEND

- EXISTING CONTOUR (GIS)
- EXISTING CONTOUR (FIELD RUN)
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING TREELINE
- PROPOSED TREELINE
- EXISTING TREE
- EXISTING UTILITY POLE
- EXISTING INTERMITTENT STREAM
- EXISTING SOILS
- EXISTING OVERHEAD WIRE
- APPROXIMATE EXISTING TRENCH LOCATION
- PERCOLATION TEST BORING: PASSED
- PERCOLATION TEST BORING: FAILED
- CULTURE DRILLED WELL REPLACEMENT LOCATION
- EXISTING JET WELL LOCATION



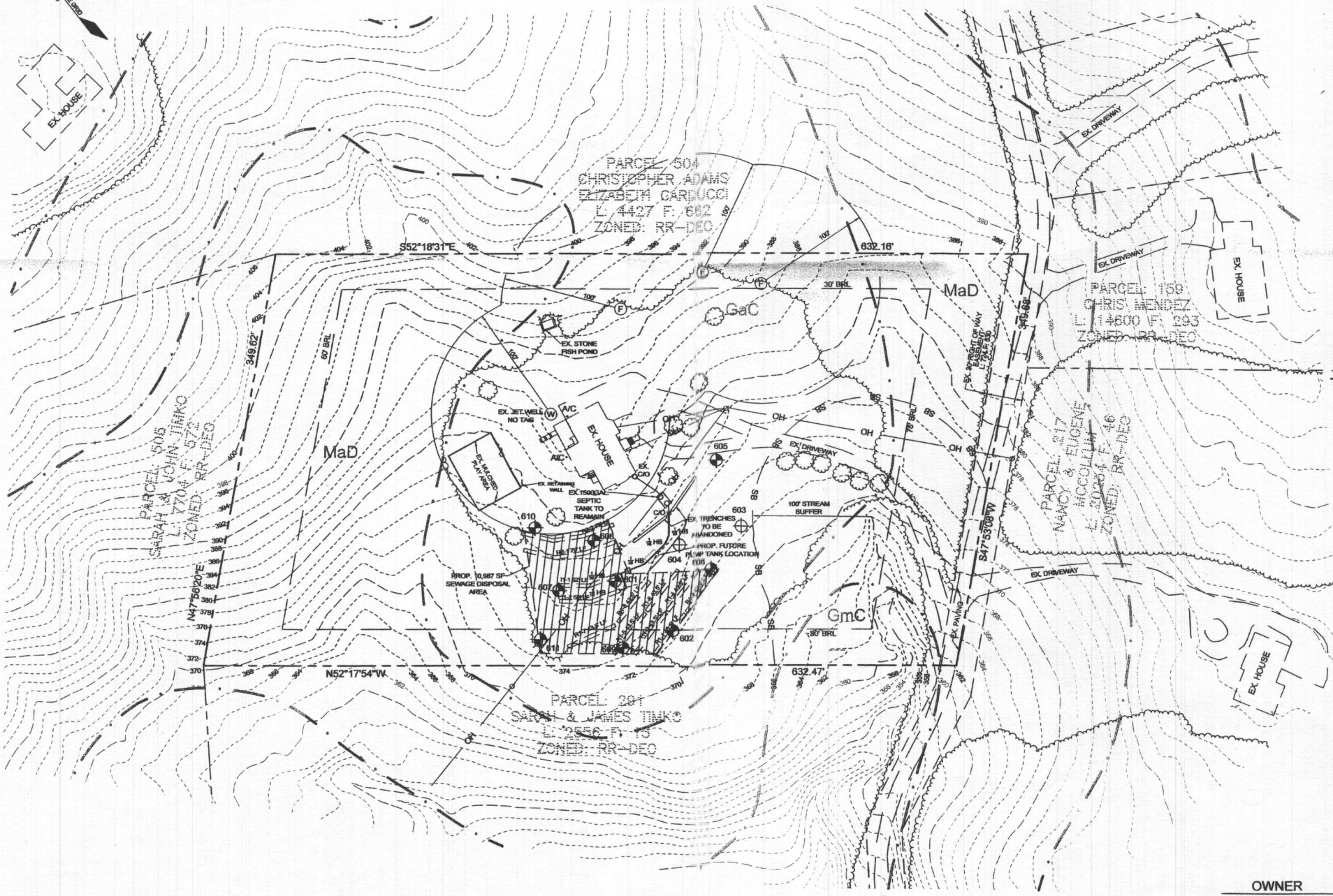
GENERAL NOTES

- SUBJECT PROPERTY ZONED RR-DEC PER 10/09/2013 COMPREHENSIVE ZONING PLAN.
- TOTAL AREA OF PROPERTY = 4.99 AC. ±
- DEED REFERENCE: LIBER: 2160 FOLIO: 217
- PROPERTY ADDRESS: 13071 WAINWRIGHT ROAD, HIGHLAND MD 20777
- PRIVATE WATER AND PRIVATE SEPTIC WILL BE USED WITHIN THIS SITE.
- THE BOUNDARY SHOWN HEREON IS BASED ON A BOUNDARY SURVEY PERFORMED BY SEG LAND SURVEYING, LLC IN APRIL OF 2023.
- THE TOPOGRAPHY SHOWN WITHIN THE DEVELOPMENT AREA IS BASED ON A TOPOGRAPHIC SURVEY PERFORMED BY SEG LAND SURVEYING, LLC IN APRIL OF 2023. TOPOGRAPHY OUTSIDE OF THE AREA OF DEVELOPMENT IS BASED ON HOWARD COUNTY GIS FLOW IN 2018.
- SILL ENGINEERING GROUP, LLC HAS COMPLETED A FIELD REVIEW AND ASSESSMENT OF THE REFERENCED PROJECT SITE. AN INTERMITTENT STREAM WAS FOUND TO RUN PARALLEL TO WAINWRIGHT ROAD INSIDE OF A DEEP FRAVNE.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA, AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.02). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA 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. RECONSTRUCTION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREA HAVE BEEN FIELD LOCATED.
- THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER PLANS AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- ANY CHANGES TO THE PRIVATE SEWAGE DISPOSAL AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- EXISTING SEPTIC DRAIN FIELD WILL BE PROPERLY ABANDONED & NEW SEPTIC DRAIN FIELDS WILL BE INSTALLED TO ACCOMMODATE A 5 BEDROOM DWELLING. EXISTING SEPTIC TANK WILL REMAIN. A PUMP PIT WILL BE REQUIRED FOR A FUTURE REPLACEMENT SYSTEM. PLEASE SEE LOCATION THIS SHEET.
- FINAL BUILDING PERMIT APPROVAL WILL NOT BE GIVEN UNTIL A ON-SITE SEWAGE DISPOSAL SYSTEM PLAN IS APPROVED AND THE APPROVED SEPTIC SYSTEM HAS BEEN INSTALLED & INSPECTED.
- CURRENT PROPERTY OWNERS ARE ALLOWED TO RETAIN THEIR JET WELL BASED SOLELY ON THE FACT THAT IT HAD UNDERGONE WATER SAMPLING TESTS IN 2022 & PASSED

Approved Septic System Plan
 Howard County Health Department
 Signature: [Signature] Date: 3/19/24

PERCOLATION HOLE ELEVATIONS

PERC HOLE	ELEVATION
601	378.90
602	372.47
603	372.23
604	374.63
605	376.48
606	371.88
607	376.79
608	378.99
609	374.29
610	378.09
611	374.58



ON-SITE SEWAGE DISPOSAL SYSTEM PLAN
GRAY PROPERTY
 13071 WAINWRIGHT ROAD
 TAX MAP 40 GRID 9
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PARCEL 39

OWNER
 OLIVER & TIFFANY GRAY
 13071 WAINWRIGHT ROAD
 HIGHLAND, MARYLAND 20777

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5976
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
DRAWN BY: SZS
CHECKED BY: PS
SCALE: AS SHOWN
DATE: MARCH 15, 2024
PROJECT #: 23-027
SHEET #: 1 of 1

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32025, EXPIRES ON DATE 06/30/2025.