

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: 9/24/19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 566381
 APPROVAL DATE: 10/25/2019 **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 5336 Catalpa Court
 SUBDIVISION: Walnut Creek LOT: 49 TAX ID: _____
 CONTRACTOR: Freedom Septic EMAIL: casey@freedomseptic.com
 CONTRACTOR ADDRESS: 2809 Liberty Road, Sykesville, MD 21784 PHONE: 410-795-2947
 PROPERTY OWNER: Cairn Custom Homes EMAIL: _____
 OWNER ADDRESS: 10548 Gorman Road, Laurel, MD 20723 PHONE: _____
 SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: Babylon
 PUMP MODEL: _____ PUMP SIZE _____ PUMP TANK CAPACITY: _____

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

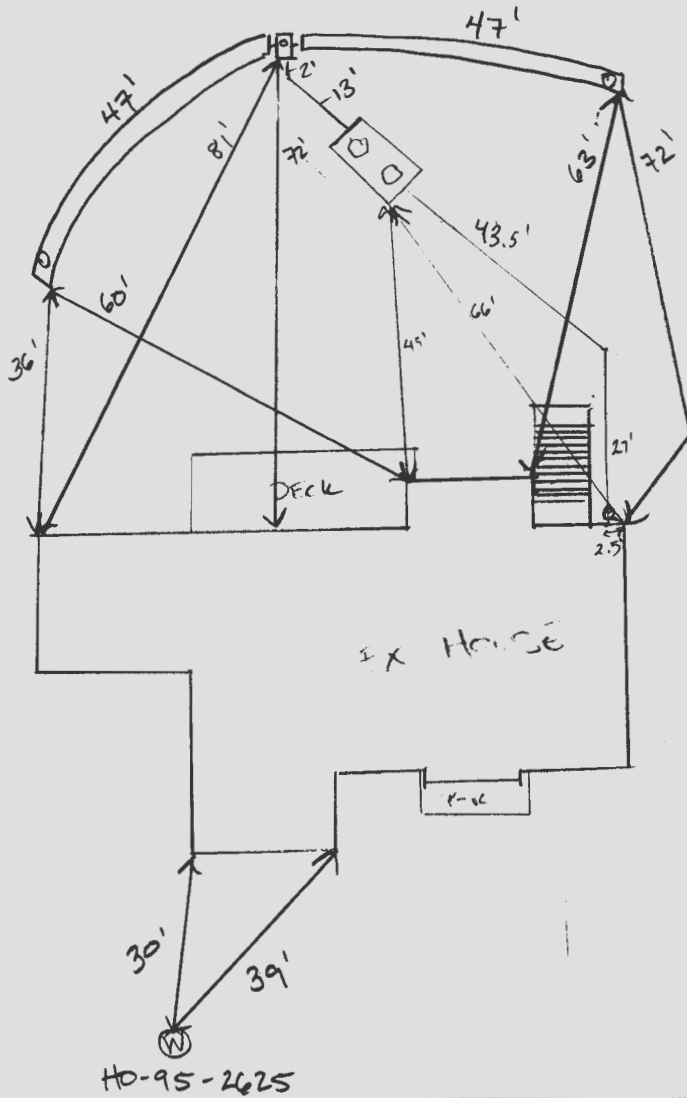
TRENCHES:	LINEAR FEET REQUIRED: <u>94</u>	INLET DEPTH: <u>4.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald ISSUE DATE: 9/24/19 EXPIRATION DATE: 9/24/20

- 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 19001658
- 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



HO-95-2625

ROAD NAME
CATALPA COURT

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3	4.5'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		94'
ABSORPTION AREA		282 SF
DISTRIBUTION BOX LEVEL		SPEED
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	top
TANK LID DEPTH	1.5'
BAFFLES	YES
BAFFLE FILTER	-
MANHOLE LOC	front + back
6" PORT LOC	-
WATERTIGHT TEST	-
SLOTTED	yes
DATE ON LID	8-27-19

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	_____

PRE-CONSTRUCTION:

10/21/2019 TANK, SDA, TRENCHES STAKED. FILL ON SDA. TRENCHES w/ 6" OF ELEVATION. TIGHT INSTALL FOR PREP. POOL. RECOMMENDED REVISING SDA. BUILDER DECLINED. (P) 10/23/19 SHC and tank set. (S)

INSTALLATION: 10/25/2019 TRENCHES COMPLETED. D BOX LEVELED WITH SPEED LEVELS. OK TO COVER. (P)

FINAL INSPECTOR

DATE OF APPROVAL

10/25/2019



September 23, 2019

Dear Ma'am or Sir,

Please allow Freedom Septic to obtain permits to install septic systems for two lots:

Walnut Creek Lot 160
B18004044
12229 Hayland Farm Way
Ellicott City, MD 21042

Walnut Creek Lot 94
B19000419
5336 Catalpa Court
Ellicott City, MD 21042

We realize that permits had previously been issued to Fogles Septic, but we are switching contractors.

Thank you for your assistance.

Respectfully,

A handwritten signature in black ink that reads "M. Appler". The signature is fluid and cursive, with a long horizontal stroke at the end.

M. Steven Appler
Principal – Cairn Custom Homes, LLC

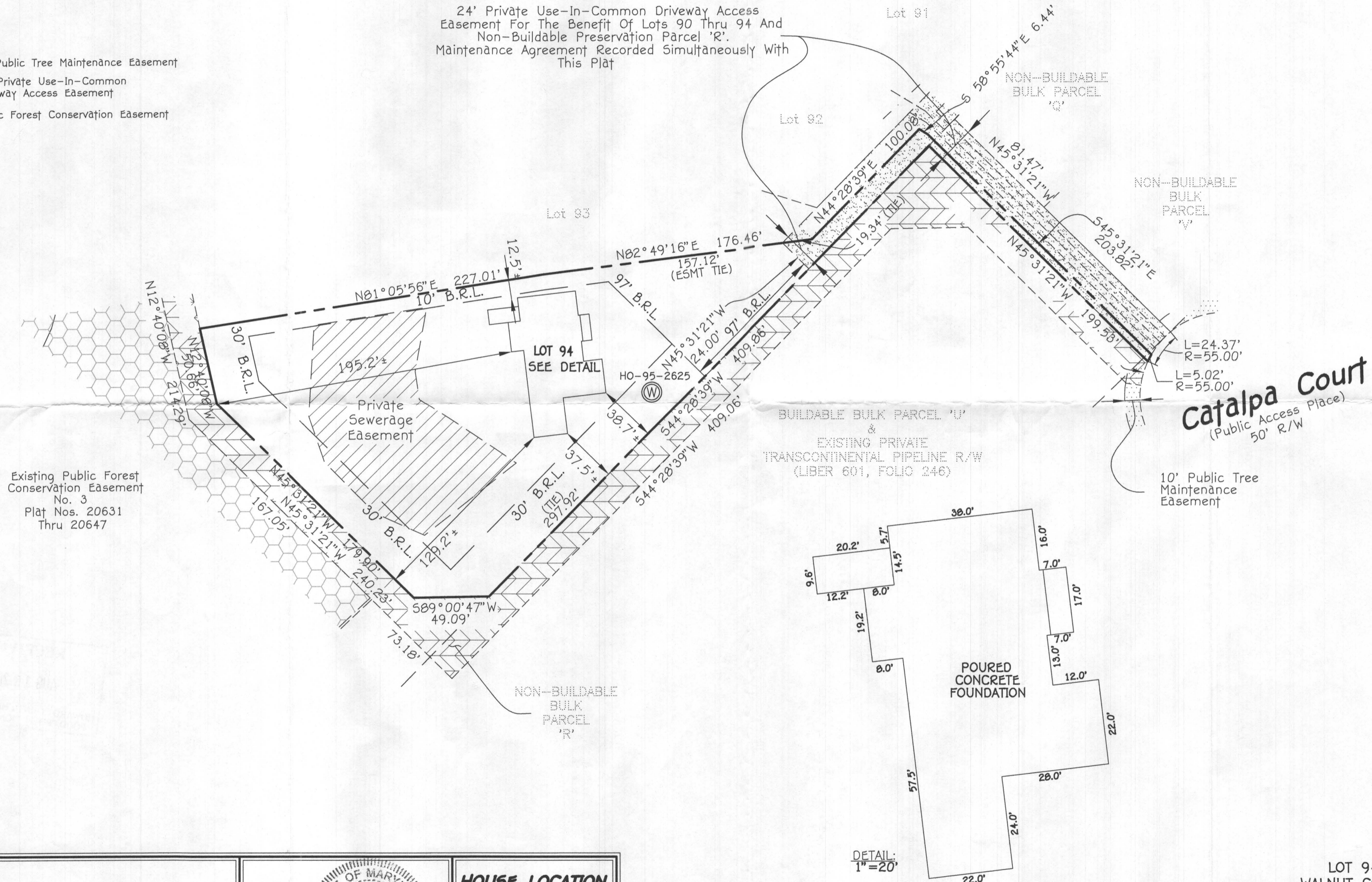
GENERAL NOTES:

- 1) THIS LOCATION DRAWING IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INSOFAR AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C01300 EFFECTIVE NOV. 6, 2013.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1.0'.
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-95-2625 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2020.
- 7) BUILDING PERMIT #B-19000419

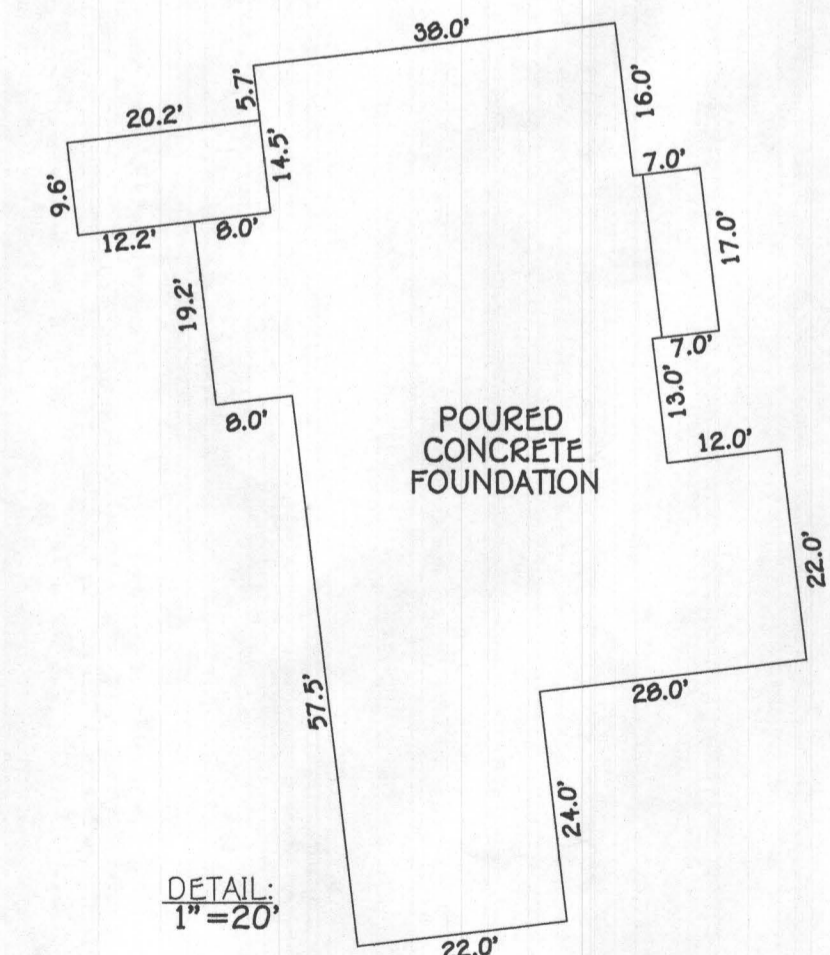
Legend

- 10' Public Tree Maintenance Easement
- 24' Private Use-In-Common Driveway Access Easement
- Public Forest Conservation Easement

24' Private Use-In-Common Driveway Access Easement For The Benefit Of Lots 90 Thru 94 And Non-Buildable Preservation Parcel 'R'. Maintenance Agreement Recorded Simultaneously With This Plat



BUILDABLE BULK PARCEL 'U' & EXISTING PRIVATE TRANSCONTINENTAL PIPELINE R/W (LIBER 601, FOLIO 246)



8/16/19 -
will check
skg - H.O.



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 211042
 (410) 461 - 2895

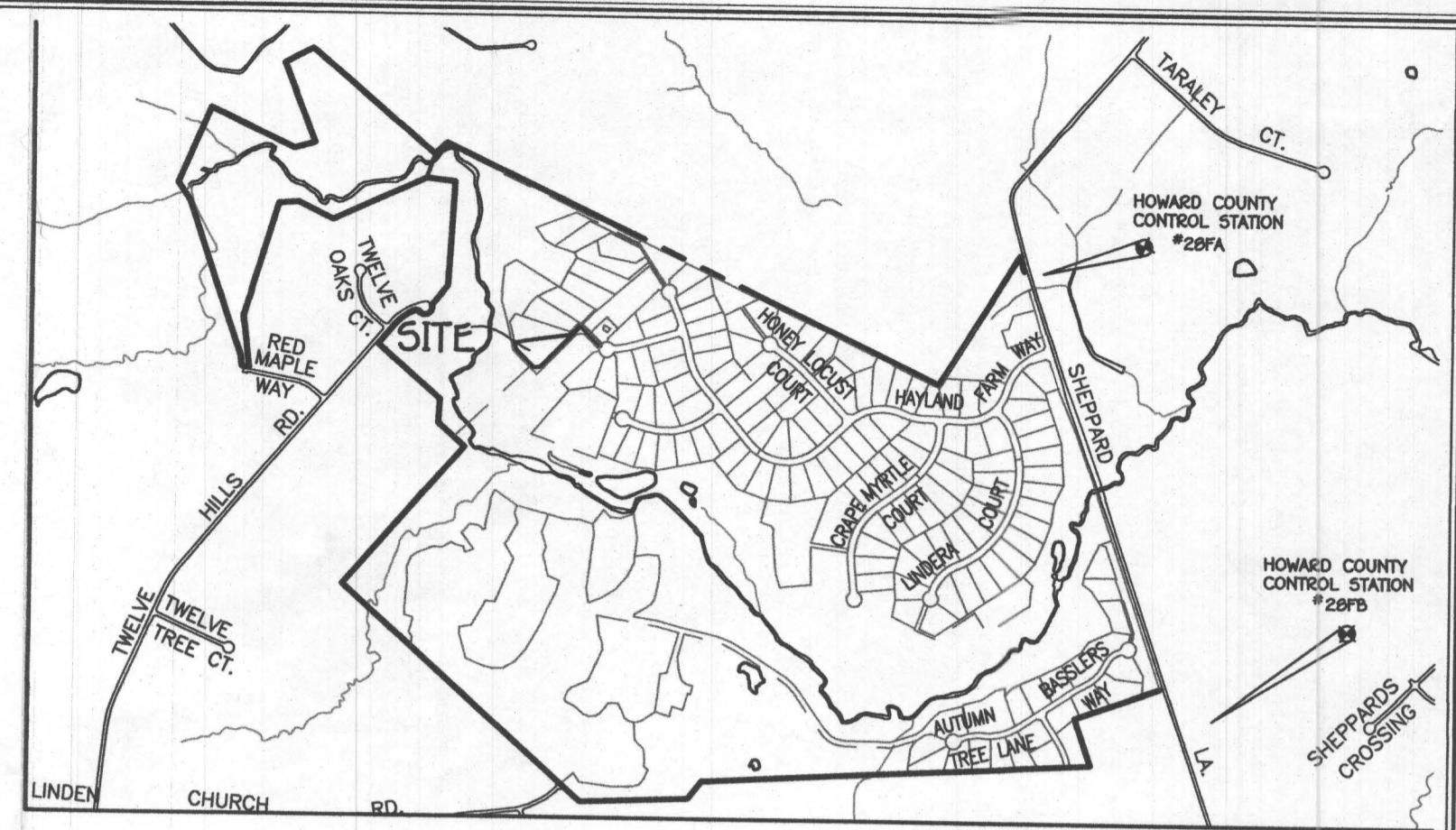
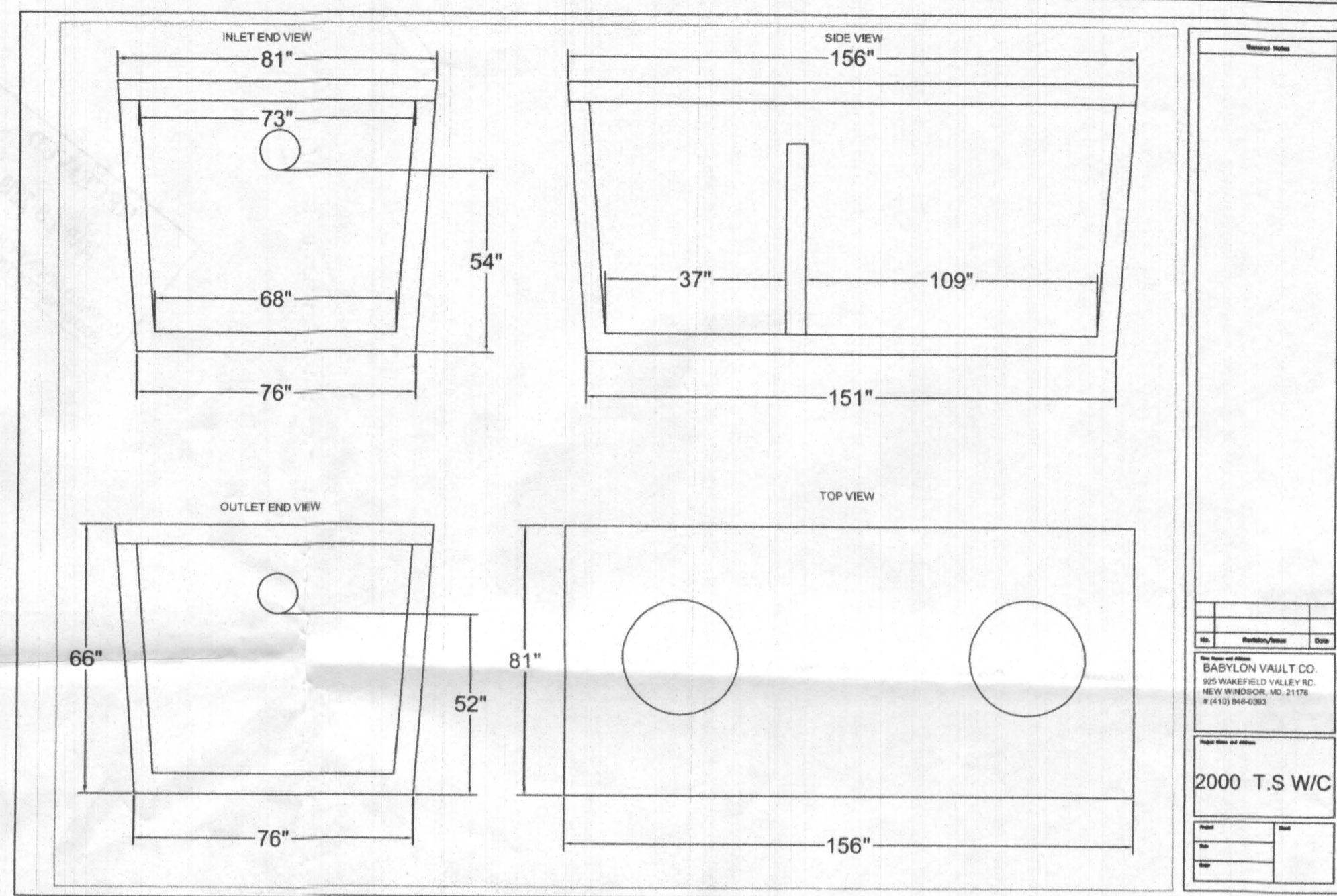
STATE OF MARYLAND
 MARK L. ROSEL
 No. 339
 PROPERTY LINE SURVEYOR
 Mark L. Rosel
 4/16/19
 DATE
 PROPERTY LINE SURVEYOR
 REG. #339

HOUSE LOCATION DRAWING
 FOUNDATION LOCATION: 9/11/19
 FINAL LOCATION:
 BOUNDARY SURVEY:
 SCALE: 1"=50'
 DATE: 4/16/19
 DRAWN BY: MD
 CHECKED BY: MLR
 PROJECT No. 24001-6022

#5336 CATALPA COURT
 B.R.L. = BUILDING RESTRICTION LINE
 TOP OF FOUNDATION WALL ELEVATION = 427.2'

LOT 94
 WALNUT CREEK
 PHASE THREE
 LOTS 69-114, NON-BUILDABLE PRESERVATION PARCELS 'O', 'P', 'Q', 'R', 'V', NON-BUILDABLE PARCEL 'S', BUILDABLE PRESERVATION PARCEL 'T', BUILDABLE BULK PARCEL 'U' AND A REVISION TO NON-BUILDABLE PRESERVATION PARCELS 'K', 'L' AND 'M'
 PLAT NOS. 23233 THRU 23245
 FIFTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

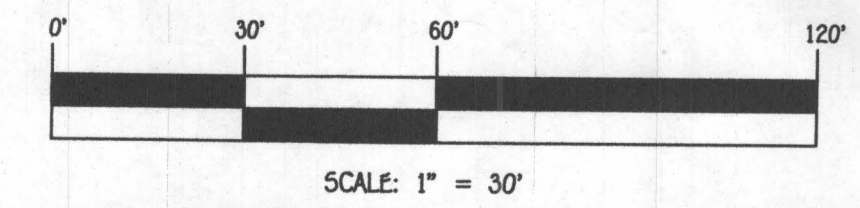
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-95-2625 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. 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.
6. ALL WELLS DRILLED LESS THAN 10 FT FROM THE DRIVEWAY MUST HAVE BOLLARDS INSTALLED.



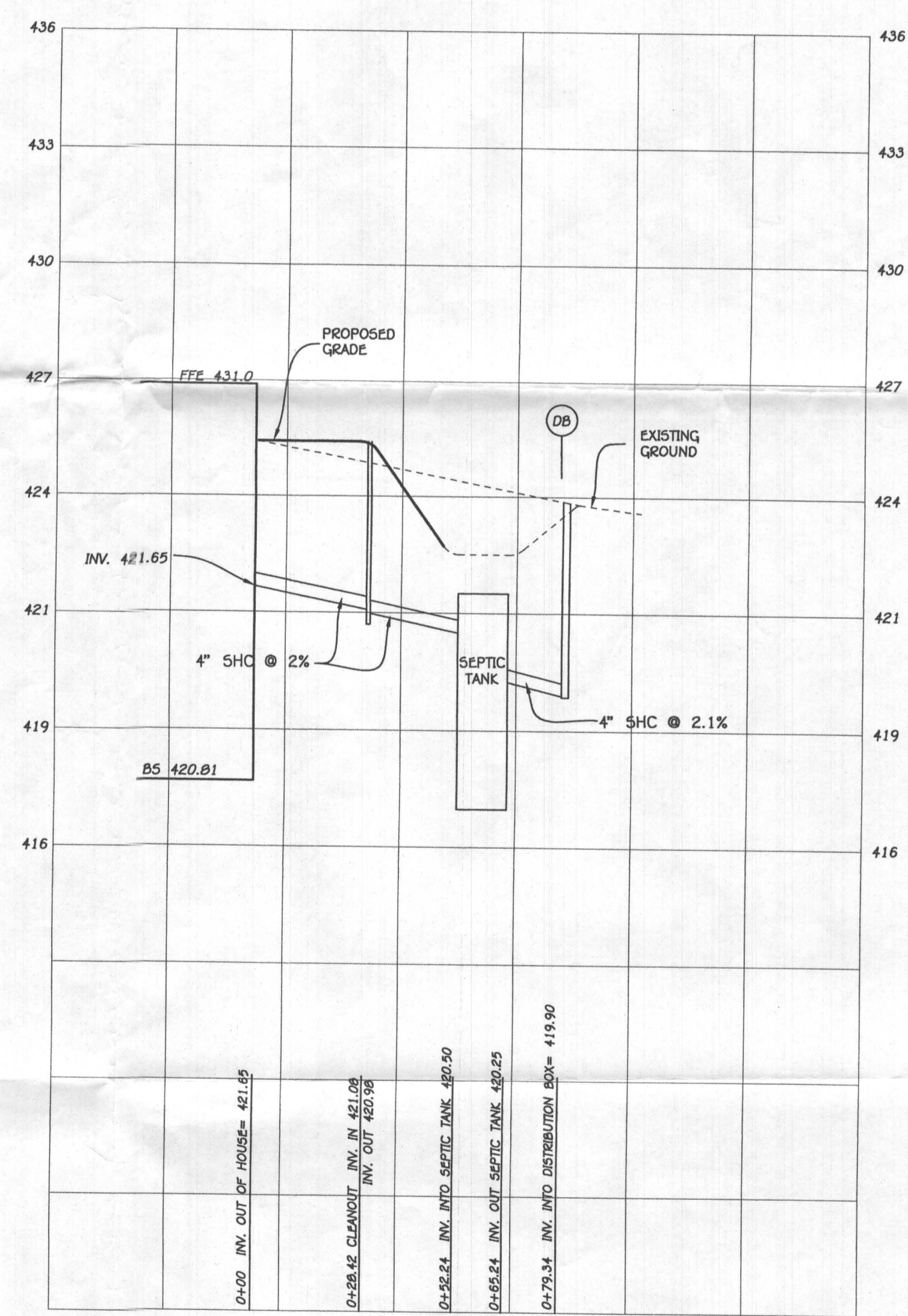
VICINITY MAP
SCALE: 1" = 1200'



PLAN
SCALE: 1" = 30'



SCALE: 1" = 30'



SEPTIC PROFILE
SCALE: 1" = 30'

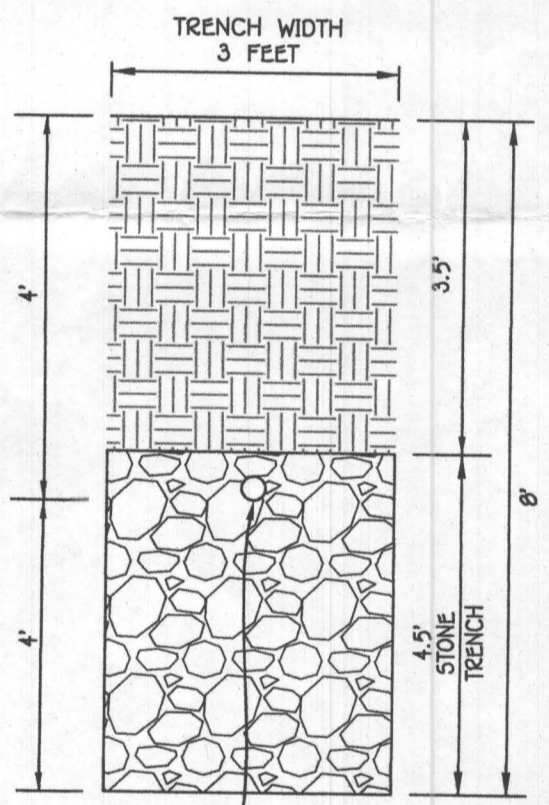
- LEGEND**
- EXISTING 2' CONTOURS
 - EXISTING 10' CONTOURS
 - EXISTING TREE LINE
 - ⊙ DENOTES EXISTING WELL
 - DENOTES FAILED PERC
 - DENOTES PASSED PERC
 - ⊠ DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

Approved Septic System Plan
Howard County Health Department
[Signature] 3/21/2019
Signature Date

FFE 427.71
BSE 417.69
INV. OUT OF HOUSE = 421.65
PROP. GROUND AT CLEANOUT #1 = 425.4
INV. INTO CLEANOUT = 421.00
INV. OUT OF CLEANOUT = 420.90
EX. GROUND AT SEPTIC TANK = 422.5
PROP. GRADE ABOVE SEPTIC TANK = 422.5
TOP OF SEPTIC TANK = 421.50
INV. INTO SEPTIC TANK = 420.50
INV. OUT OF SEPTIC TANK = 420.25
EX. GROUND AT DISTRIBUTION BOX = 423.0
INV. INTO DISTRIBUTION BOX = 419.9
INV. OUT OF DISTRIBUTION BOX = 419.0

NOTE: NO GRAVITY SEWER SERVICE FOR LOT 94

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 423.0
INV. IN = 419.9
BOTTOM TRENCH = 415.0
TRENCH 2:
EX. GROUND ABOVE = 423.0
INV. IN = 419.9
BOTTOM TRENCH = 415.0



INITIAL TRENCH DETAIL
SCALE: 1" = 2'

INITIAL 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 4.5 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3.5 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+(2x3.5)) = 0.45
TRENCH LENGTH = 200.33 SF x 0.45 = 93.75 FEET (USE 2 TRENCHES AT 46.88 LF.)
TRENCH SPACING = 2D+W = ((2x3.5) + 3) = 10' 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 = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 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+(2x4)) = 0.42
TRENCH LENGTH = 625 SF x 0.42 = 87.50 FEET (USE 2 TRENCHES AT 43.75 LF.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 10'

2ND 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 = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 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+(2x4)) = 0.42
TRENCH LENGTH = 625 SF x 0.42 = 87.50 FEET (USE 2 TRENCHES AT 43.75 LF.)
TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 10'

**BUILDABLE PRESERVATION LOT 94
SEPTIC SYSTEM INSTALLATION SITE PLAN
WALNUT CREEK
PHASE THREE**

(A Resubdivision of Buildable Bulk Parcel 11' - Walnut Creek, Phase Two) & (A Revision to Non-Buildable Preservation Parcels 1' and 11' - Walnut Creek, Phase Two)
ZONING: RC-D60 & RC-D62
TAX MAP No. 28 GRID Nos. 4, 5, 10-12, 17, AND 18 PARCEL No. 49
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: FEBRUARY 26, 2019

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2995



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. 20748, EXPIRATION DATE: 02/22/2021

Michael J. Vitelli
Signature of Professional Engineer
2/26/19
DATE

OWNER/DEVELOPER
CAREN CUSTOM HOMES
10540 GORMAN ROAD
LAUREL, MARYLAND 20723
410-918-7382

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
94	5336 CALPALA COURT