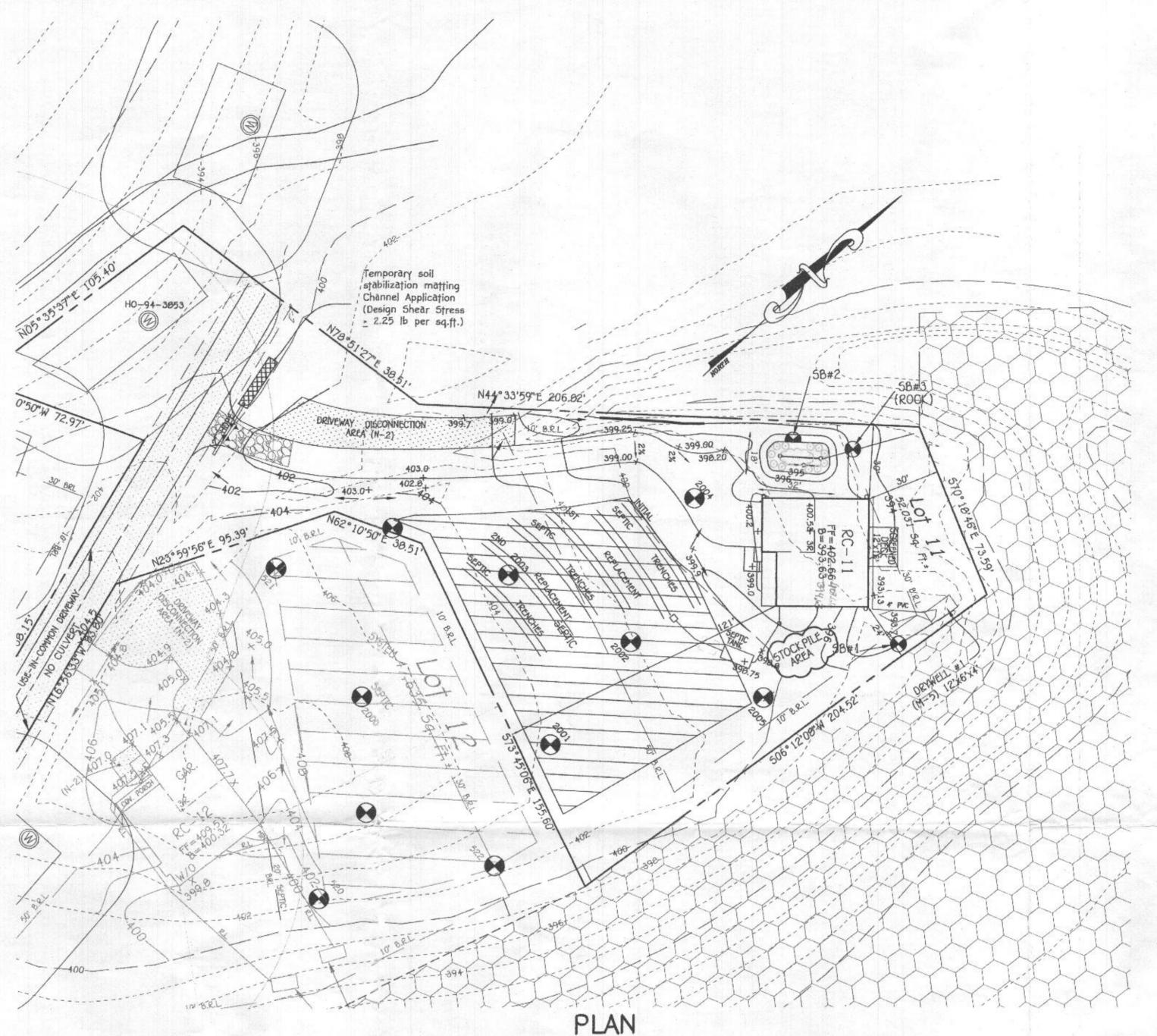


SEPTIC PROFILE 5CALE: 1"=30"



SCALE: 1" = 30'

INITIAL SYSTEM SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS (PERMIT FOR 3 BEDROOMS) LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 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 = 600 GPD / 0.8 = 750 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+(2x4))=.416TRENCH LENGTH = 250 SF x 0.416 = 104.00 FEET (USE 2 TRENCHES AT 52.00 L.F.) TRENCH SPACING = 2D+W = ((2\*4) + 3) = 11' USE 11'

15T REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS (PERMIT FOR 3 BEDROOMS) LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 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 = 600 GPD / 0.8 = 750 SF COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D)=(3+2)/(3+1+(2x4))=.416TRENCH LENGTH = 250 5F x 0.416 = 104.00 FEET (USE 2 TRENCHES AT 52.00 L.F.) TRENCH SPACING = 2D+W = ((2\*4) + 3) = 11' USE 11'

2ND REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS (PERMIT FOR 3 BEDROOMS) REVISED SITE PLAN MAY BE REQUIRED. LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD 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-94-3853 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.

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

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.

VICINITY MAP SCALE: 1" = 2000'

## LEGEND

---- EXISTING 2' CONTOURS

- - EXISTING 10' CONTOURS CONTROL EXISTING TREE LINE

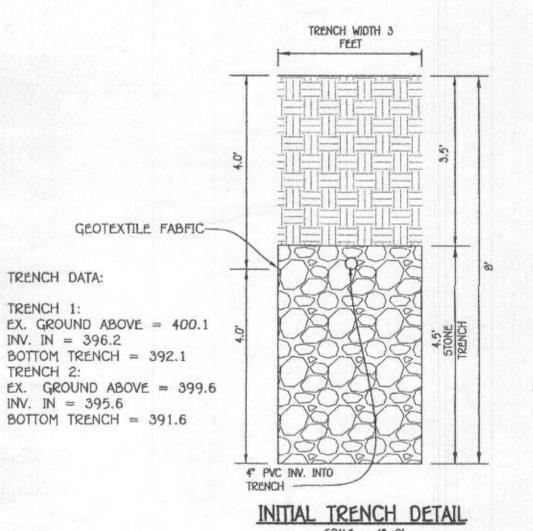
SOIL LINES AND TYPES

DENOTES EXISTING WELL

DENOTES PASSED PERC

DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

(per email w FCC) (8P) FFE 404.37 BSE 395.30 594.63 INV. OUT OF HOUSE = 397.45 PROP. GROUND AT CLEANOUT #1 = 398.3 INV. INTO CLEANOUT = 397.31 INV. OUT OF CLEANOUT = 397.21 EX. GROUND AT SEPTIC TANK = 398.75 PROP. GRADE ABOVE SEPTIC TANK = 398.75 TOP OF SEPTIC TANK = 397.81 INV. INTO SEPTIC TANK = 396.81 INV. OUT OF SEPTIC TANK = 396.56 EX. GROUND AT DISTRIBUTION BOX = 400.1 INV. INTO DISTRIBUTION BOX = 396.20 INV. OUT OF DISTRIBUTION BOX = 396.1



TRENCH 1:

TRENCH 2:

INSTALLATION SITE PLAN

RIVERCREST

15451 RIVERCREST COURT

ZONED: RC-DEO

PLAT NO.: 24723 THRU 24725 TAX MAP NO.: 21 GRID NO.: 20 PARCEL NO.: 270 4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: 1" = 50' DATE: JANUARY 1, 2021

SHEET 1 OF 1

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.

APPLICATION RATE = 0.8

TRENCH DEPTH = 8 FEET

TRENCH WIDTH (W) = 3 FEET

EFFECTIVE DEPTH (0) = 4 FEET

(USE 2 TRENCHES AT 52.00 LF.)

EFFECTIVE SIDEWALL BEGINS AT 4 FEET

SF OF DRAINFIELD = 600 GPD / 0.8 = 750 SF

(W+2)/(W+1+20)=(3+2)/(3+1+(2x4))=.416

COEFFICIENT OF REDUCTION OF TRENCH LENGTH =

TRENCH LENGTH = 250 SF x 0.416 = 104.00 FEET

TRENCH SPACING = 2D+W = ((2\*4) + 3) = 11' USE 11'

BUILDER COLUMBIA BUILDERS, INC. P.O. BOX 999 COLUMBIA, MARYLAND 21044

443-324-4732

OWNER ROXBURY FARM, LLC C/O COLUMBIA DEVELOPERS LLC 6420 AUTUMN SKY WAY COLUMBIA, MARYLAND 21044

410-730-3940

FISHER, COLLINS & CARTER, INC. NNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIK

ELUCOTT CITY, MARYLAND 21042

(410) 461 - 2055