

LOCATION MAP

LAND USE TABLE

SITE ACREAGE	0.5205 ACRES+/-
LOTS	2
SETBACKS:	
FRONT	25'
SIDE	5'
REAR	25'
LOT SIZES	
LOT 1	10,753 SF
LOT 2	11,921 SF

EACH HOME WILL PROVIDE WATER QUALITY WITH A INFILTRATION TRENCH

Proposed Infiltration Trench Required Design per Lot

The Water Quality Volume (WQ_v) is defined as:
 $WQ_v = 1.2 (R_v) A_p / 12$
 $R_v = 0.05 + I (0.009)$
 $I = \% \text{ imp. as a whole number}$
 $A_p = \text{Onsite Area to be treated}$

Proposed Impervious Area = 4320 sf
 $A_p = 4320 \text{ sf}$
 $I = 100\%$
 $R_v = 0.95$
WQV required = 410 cf

Darcy's Equation is used to calculate the minimum surface area of the proposed Infiltration Trench:
 $A = WQ_v / (nd + kd/12)$

Where:

- A = required surface area (sf)
- WQ_v = water quality volume
- n = porosity
- d = trench depth (ft)
- k = percolation (in/hr)
- T = fill time (hrs)

$WQ_v = 410 \text{ cf}$
 $n = 0.32$
 $d = 4.0 \text{ ft}$
 $k = 0.50 \text{ in/hr}$
 $T = 2 \text{ hrs}$

Required Surface Area = 231 sf



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24-HOUR CONTACT
BOB HARRIS
404-867-0051

PROJECT
**CONCORD RD/
OLD CONCORD**

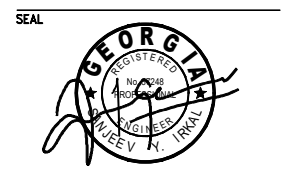
3381 CONCORD
P/O TRACT 7 & 8

Land Lot 340 & 381,
17TH District
2ND Section
Cobb County, Georgia
TerraBuild PROJECT NO. E18024



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Scale: 1" = 20'



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DESIGNED BY _____

DRAWN BY _____

CHECKED BY _____

APPROVED BY _____

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**ANNEXATION
PLAT**

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