

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  
 Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: \_\_\_\_\_

Subdivision: Simpson & Renault Properties Lot: 43

#146 & #144

Initial system: Application rate: 1.2 Effective area beginning depth: 2.5 Bottom maximum depth: 6

1<sup>st</sup> Replacement: Application rate: 1.2 Effective area beginning depth: 3.5 Bottom maximum depth: 6

2<sup>nd</sup> Replacement: Application rate: 1.2 Effective area beginning depth: 3.5 Bottom maximum depth: 6

Design Flow = 150 gallons per day per bedroom

Design flow + application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage + trench width

Sidewall reduction credit formula:

$$\frac{W+2}{W+1+2D} \times 100 = \text{Percent of length of standard trench where } W=\text{trench width and } D=\text{depth between effective area beginning depth and trench bottom.}$$

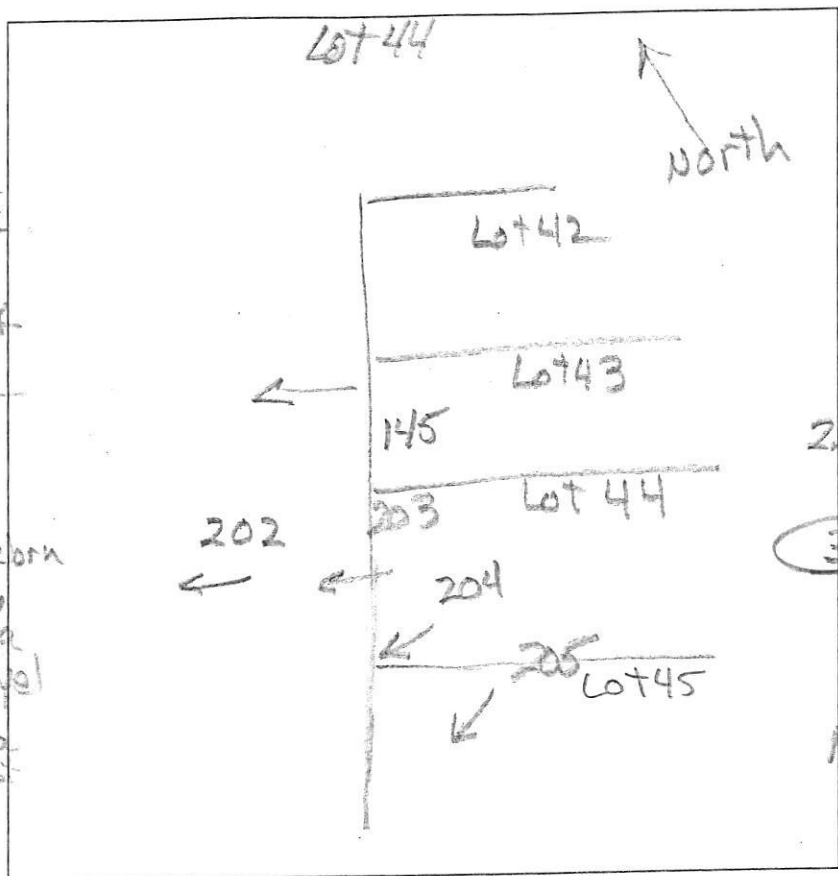
Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D +W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

Approved: R. Bricker Date: 2/13/2018

A/P \_\_\_\_\_



**203**  
 0.2' dk brn L, few  
 1/2 sbk mica  
 0.5' brn L, 2/3 sbk  
 few mica  
 2.2' brn L, 2 msbk  
 few mica  
 Red-brn sl  
 thick platy  
 few mica  
**3.3'** vel-red & pale brn  
 ls, thin platy  
 10.0' minor mica  
 10.5' gray & red-vel  
 chls, many  
 mica  
 platy, moist  
 12.5' no water

**204**  
 0.2' dk brn L, 2fg  
 red-brn L  
 2/3 sbk, ss  
 0.9' red-brn L  
 2 msbk, ss  
 1.5' vel-red sl  
 thick platy  
 few channels  
 few thin black  
 minerals veins  
 2.5' vel-red & pale brn  
 chsl, qm dense  
**3.4'** vel-red & yellow  
 & pale brn ls  
 thin platy  
 common mica  
 few channels  
 11' dk. brn chls  
 platy, mica  
 13' no water

**202**  
 0.6' dk brn sl  
 1/2 brn sl  
 1/2 sbk  
 vel-red  
 & pale brn  
 ls, thick platy  
 many mica  
 2.4' red-vel ls  
 thick platy  
 many mica  
 4.5' red-vel,  
 pale yel  
 & lt. grey  
 chls  
 10.5' grey, dk brn,  
 moist & red-vel  
 chls, many  
 mica, platy  
 13' water

**205**  
 0.6' 2/3 sbk, 1/2  
 channels  
 brn chsl  
 1/2 sbk  
 1.5' vel-red  
 & brn sl, 1 msbk  
 many mica  
 3' red-brn  
 & brn vstsl  
 dense fm  
 5' lt red & brn  
 ls, thin platy  
 few mica  
 10' brn ls, platy  
 13' many mica

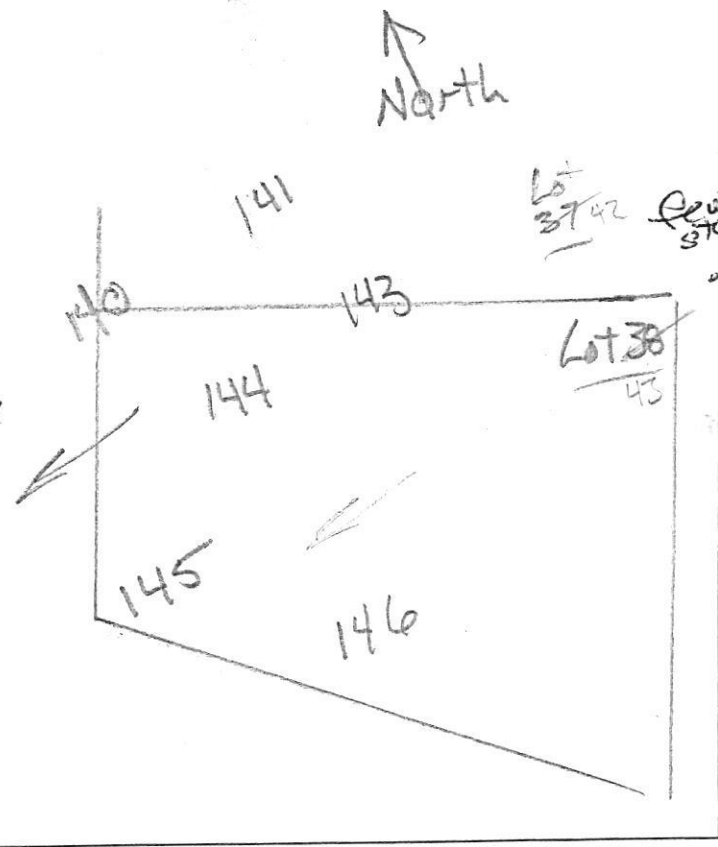
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	PIF/H
11/23/15	203	4.3' / 10.5'	2:18	2:20	2:24	4	P
11/23/15	202	4' / 10.5'	2:39	2:43	2:51	8	P
11/23/15	204	4.5' / 13'	2:59	3:01	3:03	2	P
11/23/15	205	5.7' / 13'	3:24	3:27	3:31	4	P

REMARKS \_\_\_\_\_  
 SANITARIAN R. Bricker BACKHOE Hot Field's OTHERS Jason Alexander  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



A.P.

144  
 dk brn L  
 brn L 2 f s bk  
 1.7 brn L 2 msbk  
 2.5 1/2 brn L 1 msbk  
 dk brn sl, common mica  
 1/2 yel-red fsl, dense  
 5 1/2  
 1 brn chls  
 micaceous  
 12 pale brn  
 chls, water



146  
 dk brn L  
 2 f s bk  
 brn L  
 2 f s bk  
 0.8 yel-red  
 2 msbk, ss  
 2.5 1/2 msbk  
 1 brn ls, thin platy  
 common mica  
 3 brn & red  
 ls, wk medium platy  
 12 grey-brn  
 chls many mica  
 14

143  
 dk brn sl  
 2 f s bk  
 0.8 brn sl  
 2 f s bk  
 yel-red  
 2 brn L  
 2 msbk, ss  
 few stones  
 1.9 yel-red  
 1/2 brn ls, thin  
 many mica  
 2.5 red & pale brn  
 ls, thin czd (blk)  
 few channers  
 2.5 pale brn  
 & pale yellow  
 chls

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/6/14	144	5.5' / 12	2:31	2:37	2:47	10	P
11/6/14	143	5' / 12	2:48	2:50	2:53	3	P
11/6/14	146	3.7' / 14	3:04	3:07	3:10	3	P

REMARKS \_\_\_\_\_  
 SANITARIAN R Bricker BACKHOE Hatfield OTHERS Art Leonard  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

Lot 38