

Bureau of Environmental Health

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: _____

Subdivision: Crawford and O'Keefe Property Lot: 4

Initial system: Application rate: 1.2 Effective area beginning depth: 6 Bottom maximum depth: 8
1st Replacement: Application rate: 0.8 Effective area beginning depth: 5.5 Bottom maximum depth: 8
2nd Replacement: Application rate: 1.2 Effective area beginning depth: 6.5 Bottom maximum depth: 8

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:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= depth between effective area beginning depth and trench bottom.

Standard design requirements:

- Trenches must be located to provide room for 3 systems in the disposal area
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: Dana Bernard Date: 2/20/2018

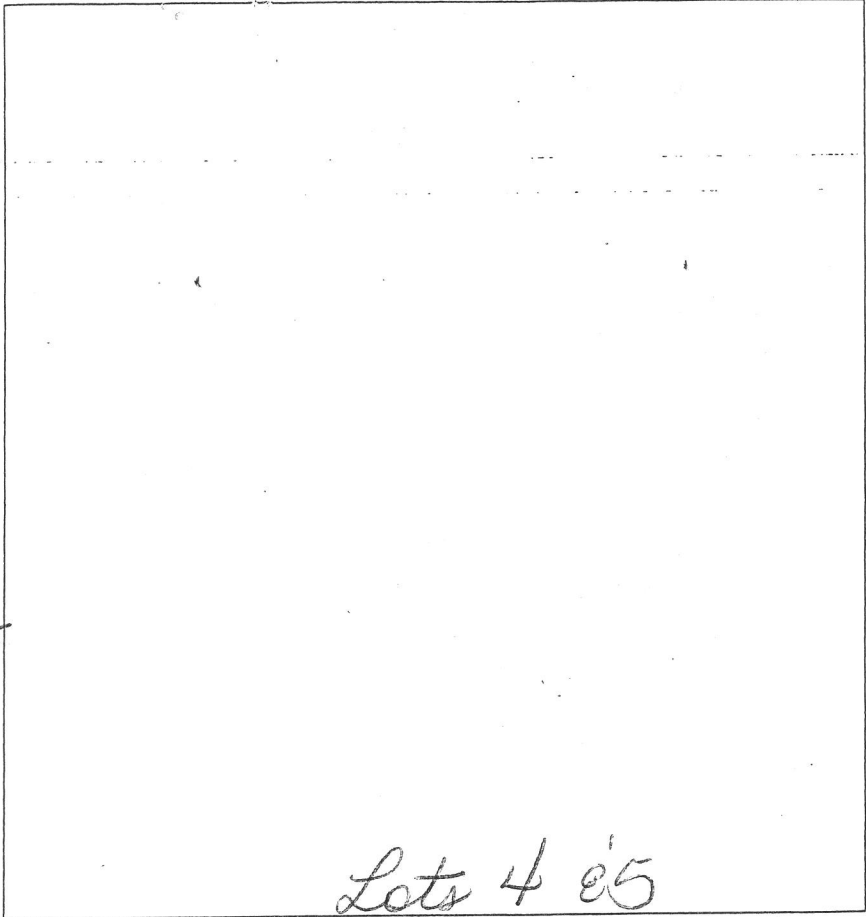
A/P

4

14A
 Red Brown
 yellow
 Sh
 6'
 Red Brown
 FSh
 ↓
 19.5'

14C
 Red Brown
 yellow
 Sh
 6'
 Red Brown
 yellow
 Sh
 10'
 Red Brown
 yellow
 Sh
 5-10%
 shale @ 14.5'

14B
 Red Brown
 yellow
 5-10%
 Sh
 5'
 Red Brown
 yellow
 Sh
 ↓
 13.5'



13A
 Red Brown
 yellow
 Sh
 3'
 Red Brown
 yellow
 Sh
 10-20%
 Ru @ 8'
 ↓
 9'

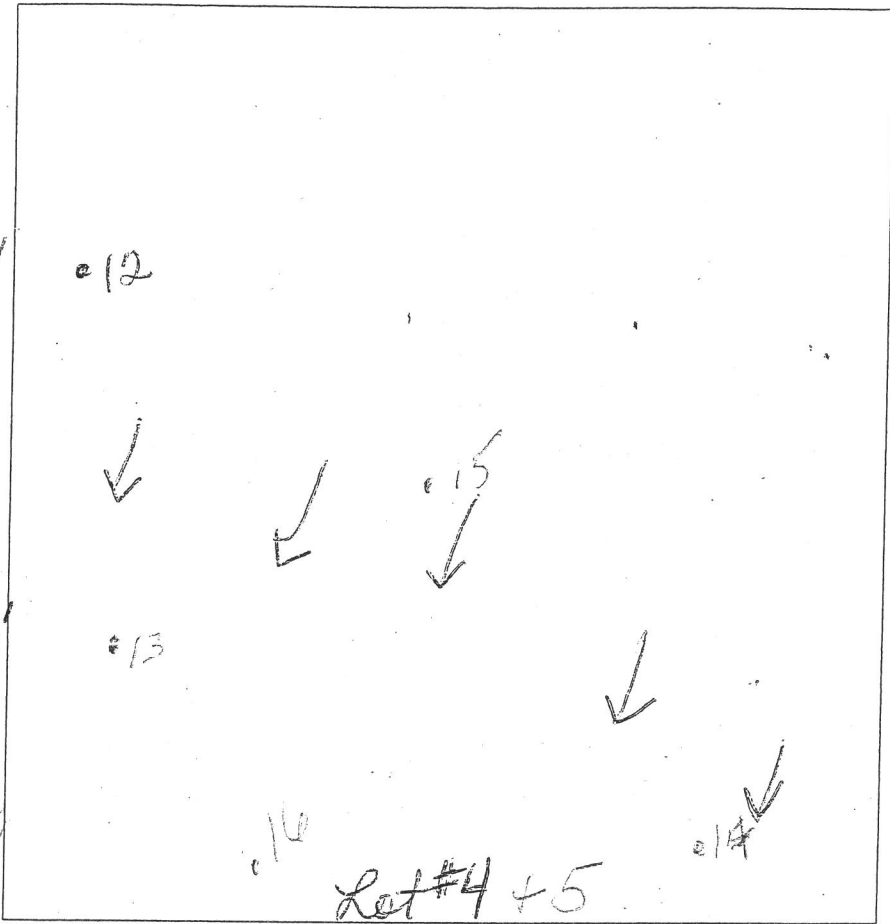
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9-3-14	14A	6.5 / 13.5	10:30	10:36	10:44	8min	P
9-3-14	14C	9 / 14.5	10:38	10:45	10:47	2min	P
9-3-14	14B	6 / 13.5	10:38	10:45	10:48	3min	P
9-3-14	13A	4 / 9	10:38	10:53	10:55	2min	P

REMARKS _____
 SANITARIAN _____ BACKHOE _____ OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

#12
Red Brown
yellow
SL
↓
14'

#13
Red Brown
SL Dense
many mica
Red Brown
yellow
SL
↓
8'
15'

#14
Red Brown
yellow
Dense
SL
↓
8'
Red Brown
SL
many mica
↓
14'



#15
Red Brown
yellow
SL
↓
14'

#16
Red Brown
SL
Red Brown
yellow
SL
5-10%
Shist @
7'
↓
14'

#17
Red Brown
yellow
SL
↓
3'
Red Brown
SL
many mica
FSL
↓
14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6-24-14	12	5.5/14	11:36	11:38	11:40	2 min	F
6-24-14	13	5/15	1:12	1:27	1:35	8 min	P
6-24-14	14	7.5/14	11:44	NO WATER	→ 20' deep 1:24	→	F
6-24-14	15	4/14	1:21	1:22	1:23	→	F
			2:12 Reservoir	1:25	1:26	1 min	
6-24-14	16	5.5/14	1:40	1:46	2:00	9 min	P
6-24-14	17	5/14	1:30	1:31	1:31	1 min	
			Reservoir				
			1:33	1:35	1:39	2 min	F

REMARKS _____
 SANITARIAN D. Brand BACKHOE Donnie OTHERS _____
 TEST HOLES USED IN SDA _____ w/ Hatfield's AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____