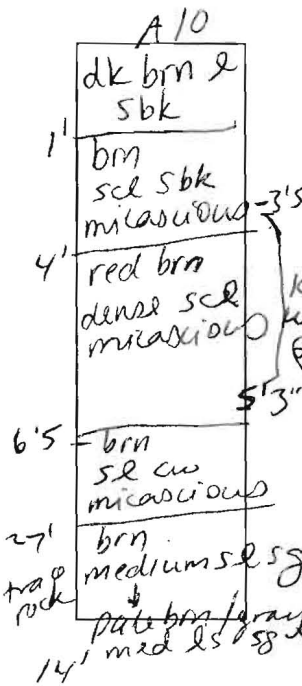
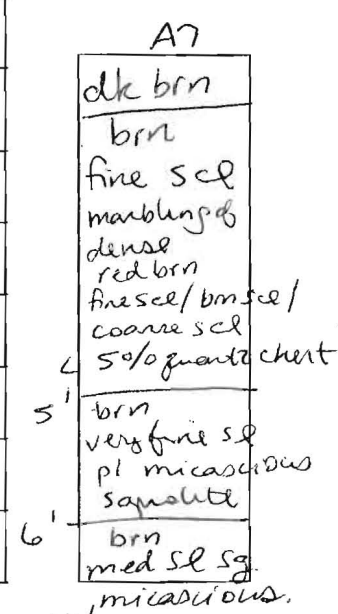


DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/1/08	A10	7'8" / 14'	9:51	9:57	10:13	16	P
	A8	6' / 11'4"	10:17	10:20	10:27	7	P
	A9	6' / 14'5"	10:55	11:17	No movement		F
	A6	7' / 15'	11:27	11:51	Not to 2nd inch		F
	A7	7' / 14'	12:20	12:23	12:33	10	P



REMARKS dug per stake A10 EA @ 7' A6 EA @ 7' A8 EA @ 5' A7 EA @ 6' 14'

SANITARIAN SS BACKHOE Fulton OTHERS \_\_\_\_\_

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

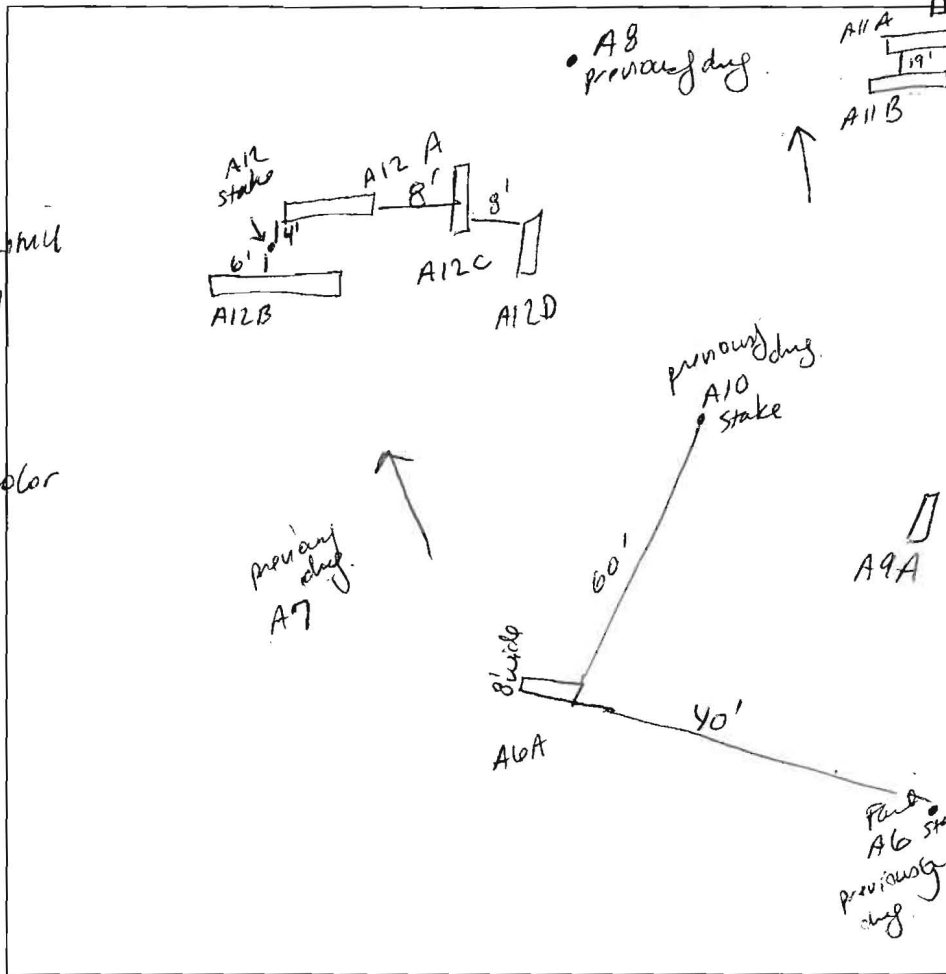
TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SWM \_\_\_\_\_

AVP \_\_\_\_\_

**A11A**  
 1' dk brn l  
 st. brn  
 fine scl micaceous  
 4' red yellow brn  
 med scl  
 6'3' micaceous  
 8' gray/white  
 decomposing  
 rock weathered  
 color  
 weathered.  
 se sg

**A12B**  
 1' dk brn l sbk  
 1/2-2' red yellow  
 coarse scl  
 stony  
 4' brn/pale brn  
 w/red yellow  
 med se sg.  
 8' weathered  
 stones  
 quartz  
 coarse  
 se  
 sg

**A12A**  
 1' dk brn l  
 sbk  
 red yellow  
 med scl  
 sbk  
 25' pale brn/brn  
 coarse se  
 red yellow  
 decomposing  
 weathered  
 rock grains



**A12C**  
 1' dk brn l  
 sbk roots  
 5' red yellow  
 scl sbk  
 6' pale brn  
 med/coarse  
 se  
 8 1/2' refusal  
 10' refusal

**A11**  
 1' dk brn l  
 roots  
 brn red  
 med scl  
 6 1/2-7' pale brn  
 coarse se  
 sg  
 refusal

**A9A**  
 1' dk brn l  
 roots  
 3 3/4" brn dense  
 fine scl  
 micaceous  
 red brn  
 med scl  
 5% chert  
 8' pale brn  
 med se sg  
 saponite  
 weathered  
 rock

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/17/08	A12B	14'			Rock	refusal @ 8'	F
	A12A	8'			Rock		F
	A12C	10'			Rock	refusal @ 8 1/2' x 10'	F
	A11	5'5" / 10'8"	10:26	10:45	No movement		F
	A9A	7'4" / 13'5"	10:52	11:08	No movement		F
	A11A	6'3" downhill / 7'5" uphill / 13'	11:23	11:41	still @ 1st peg		F

REMARKS **A11, A9A dug per stake all others added in field**  
 SANITARIAN SS BACKHOE Fulton OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA A7, A12D, A8, A11B, A6A, A10A AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

7 1/2' - started to hit hard rock moved over to A12B

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

private drive

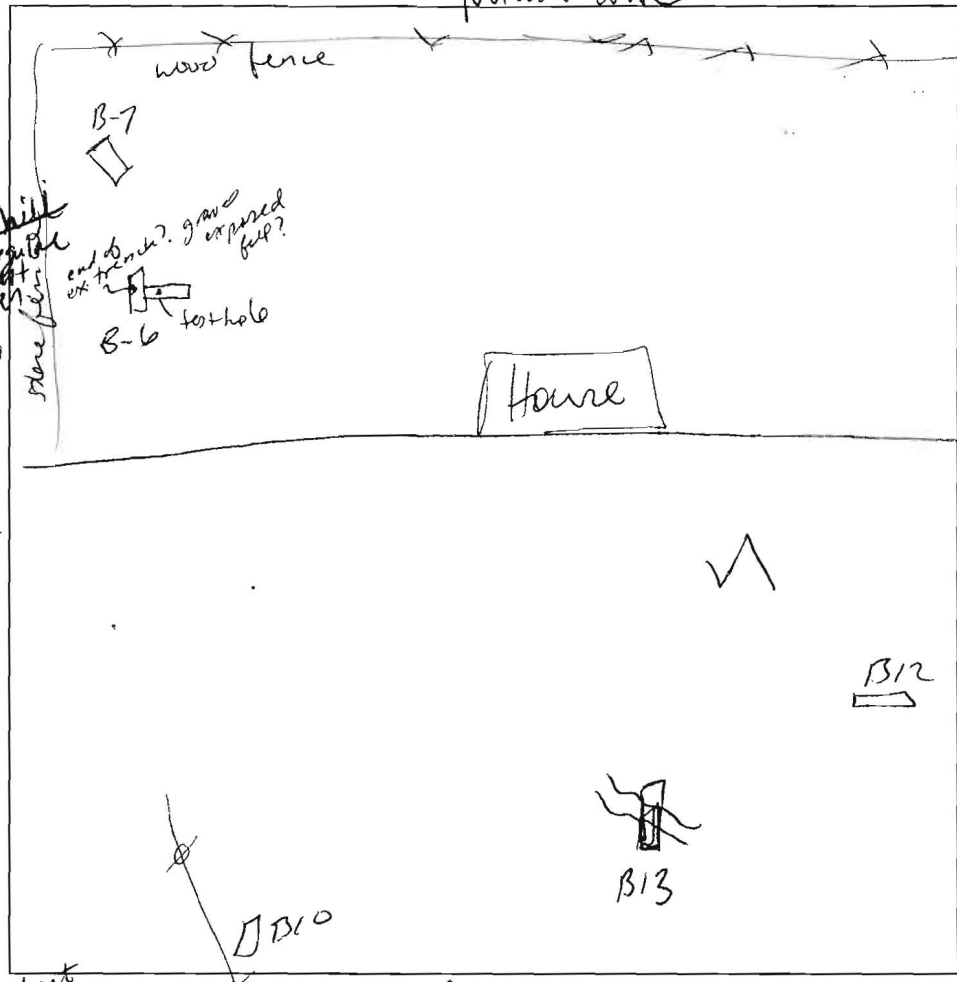
B-7

1' dk brn  
sl medium  
45% chert

2' brn  
med. sl sg  
micaceous  
cw

4' dk brn / brn  
medium sl sg  
micaceous  
chert layer 2-3' thick

13'9" dk brn  
med ls  
micaceous  
saponite



B12

2'8" dk brn  
l sbk  
st. brn / down hill  
sl  
st. brn / gray  
m. ls  
schist / mottled  
weathered / coarse ls  
rock. / chert

2'5" brn  
sl sg  
micaceous

6' st. brn  
sl micaceous  
heavy sl

13'

B13

2'1" dk brn l  
pale brn  
coarse sl cw

5' 45% cemented sl  
saponite  
sl and

6'1" dk brn  
med sl sg  
cw  
micaceous.

8'

13'

B10

dk brn  
sl sg

dk brn  
marls  
to flm. sl  
and flm. sl  
saponite  
micaceous

5' cw  
downhill  
thin  
band of  
chert

5' brn  
sl sg cw  
micaceous  
saponite

13'

B-6

2'1" dk brn sl  
sbk

2'1" st. brn  
sl  
micaceous

2'1" fine or med  
to gravel  
tendr

5' dk brn / brn  
sl micaceous  
saponite

13' dk brn ls  
micaceous

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/19/08	B-7	4' / 13'9"	9:45	9:48	9:51	3	P
	B-6	6' / 13'	10:06	10:21	10:51	30	P
7/1/08	B10	5' / 13'	1:35	1:43	No movement		-
tooth hole	B13	6' / 13'	2:39	2:43	2:50	7	P
downhill side	B12	5'5" / 13'	3:11		No movement		F
uphill side	B12	7'	3:53		No movement		F

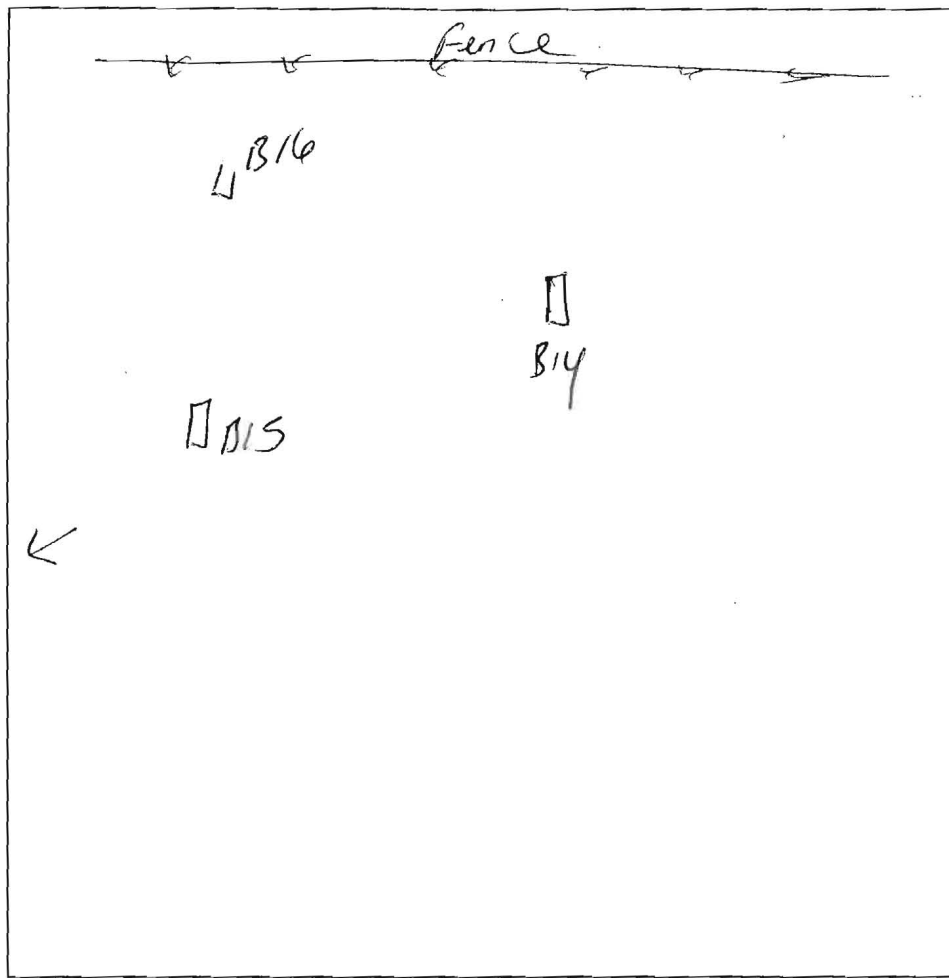
REMARKS B-6 EAP 5 1/2 B-7 EAP 4' 13'

SANITARIAN SS BACKHOE Fulton OTHERS \_\_\_\_\_

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

AP \_\_\_\_\_



B14  
 1' dk brn & sbk  
 4' brn 50% stony  
 St. brn / pale brn coarse sl w/ scl 35% coarse stony saprolite  
 6' dk brn / brn / red brn med sl sg micaceous cw saprolite  
 13'

B16  
 1' dk brn sl  
 2'5' brn scl & micaceous 5% chert  
 5' brn / st. brn marbling of medium scl, heavy sl red grains  
 dk brn / st brn med sl cemented micaceous rock grains

B15  
 1' dk brn & sbk  
 2' brn dense scl  
 2' brn fine scl dense micaceous  
 2 1/2' p(2) matrix st brn / gray very dense scl micaceous  
 4' brn fine scl micaceous  
 5' brn / brn red / brn yellow irregular boundary med sl heavy

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/16/08	B16	6' / 12'8"	3:19	3:28	No movement		F
	"	7'	3:35	3:49	14 min	No movement	F
7/17/08	B15	8' / 13'5"	2:21	2:38	3:08	30	F
		8" hole	conversion to 12" hole		30 x 1.33 =	39 min	
	B14	6'3" / 13'	2:53	No movement			F
		8'	3:13	3:28	No movement		F

REMARKS Dug per plan  
 SANITARIAN SS BACKHOE Fulton OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_  
 → 6' - saprolite 13'5' bottom

AP

House

A5

A11B

dk brn l

st. brn scl

3'7" chert / coarse chert

4' red scl micaceous sbk

7' red/brn med sl micaceous

8' gray/pale brn/brn med sl sg micaceous

14'

A2

hit a shallow underground cable = not renewed

dk brn l sbk

brn fine scl sbk micaceous

st. brn fine scl sbk micaceous

4' brn/pale brn med sl sg cw micaceous saprolite

12' 40 masses gray saprolite weathered granite?

13' A1

dk brn l sbk

29" st. brn fine scl sbk micaceous

2'6" brn/pale brn med sl micaceous saprolite coarse chert stony

11' seepage

gray/pale brn weathered granite quartz

14'

A6A

dk brn l

st. brn fine scl/cp

2' red yellow/gray mottles (d-2) weathered 5% chert

2'8" Frag pan red fine scl

4' red fine scl wk micaceous

6' red heavy med. sl micaceous

7' red/pale brn sl sg micaceous

13'

low area

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/17/08	A6A	7' / 13'	11:53	12:09	12:34	25	P
	A11B	7'4" / 14'	12:22	dist feel in start = red dug hole			-
		7'7"	12:55	1:04	1:26	22	P
	A12D	5'3" / 9'5" + 10'5"	12:49	12:52	12:57	5	P
6/19	A5	13'		similar to #4	visual		P
	A1	4' / 14'	2:55	3:01	3:11	10	P
				wet reason for trip needed to confirm if A5 + A1 are acceptable			

A12D

dk brn l

brn scl micaceous

3'4" red yellow/brn fine sl micaceous

7' pale brn/gray med sl sg

downpouring weathered rock fragments

15' refusal

weathered rock fragments

refusal 10'5"

REMARKS 12D EAP 4' inlet @ 4', #6A EAP 7' #11B EAP 7'

SANITARIAN SS BACKHOE Fulton OTHERS

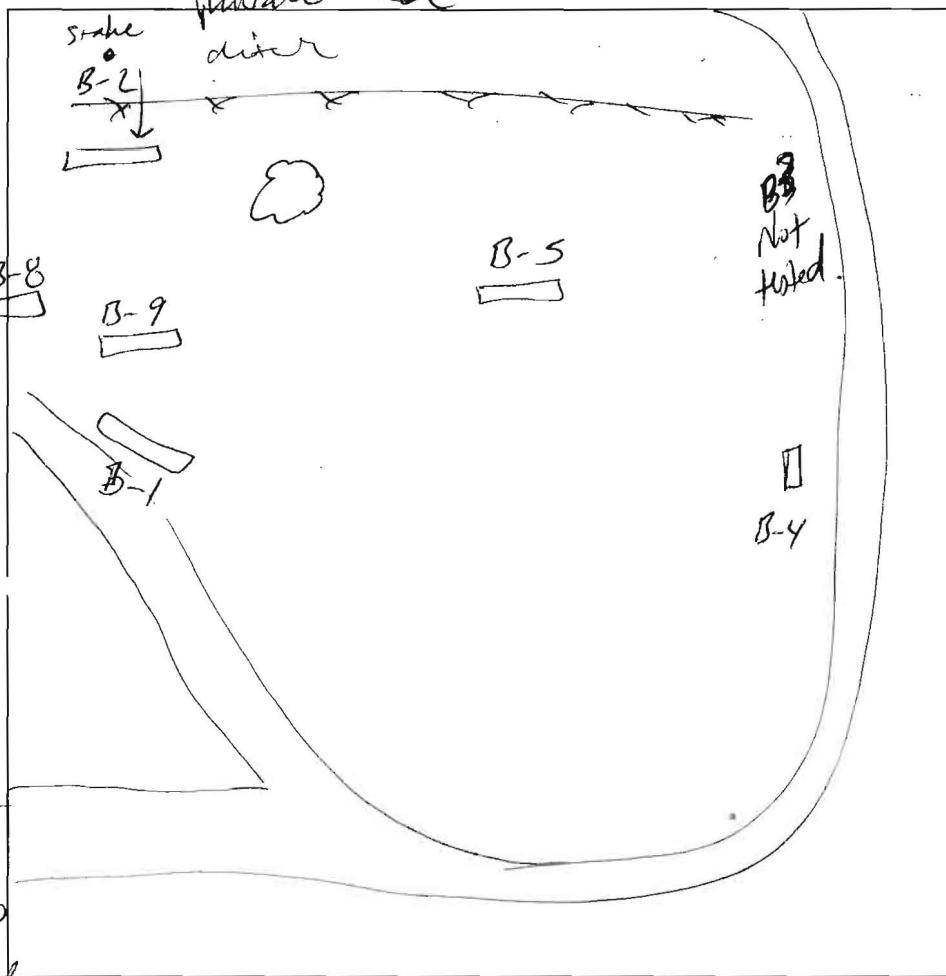
TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

dug per stake

AVP \_\_\_\_\_

Passate Rod



B-9  
 dk brn l sbk  
 st. brn med scl micaceous  
 25'  
 dk brn coarse sl sg micaceous Saprolite cemented  
 11'  
 Hard bottom

B-4  
 dk brn l sbk  
 brn scl micaceous dense  
 2'  
 dk brn / brn red med sl sg  
 23'  
 dk brn / brn red coarse sl sg micaceous w/ patches of scl/heavy 10% chert sl  
 13'

B-5  
 dk l / sl  
 2'  
 brn heavy sl sg coarse micaceous  
 33"  
 dk brn coarse sl sg micaceous cw  
 6'  
 isolated rock  
 13'  
 H2O level  
 13'

B-2  
 8"  
 dk brn se sbk  
 brn scl/heavy sl  
 2'  
 dk brn coarse sl sg micaceous cemented saprolite 15%-20% chert  
 13'  
 refusal

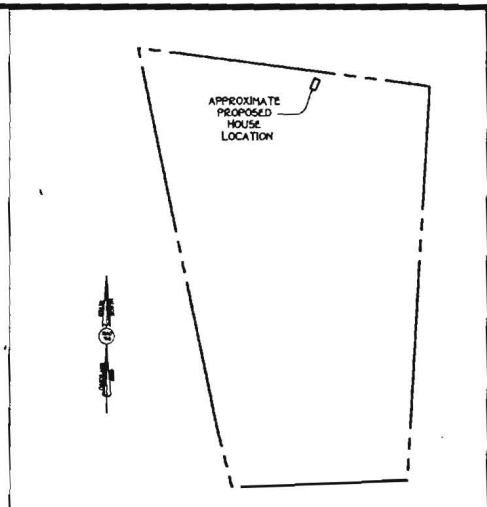
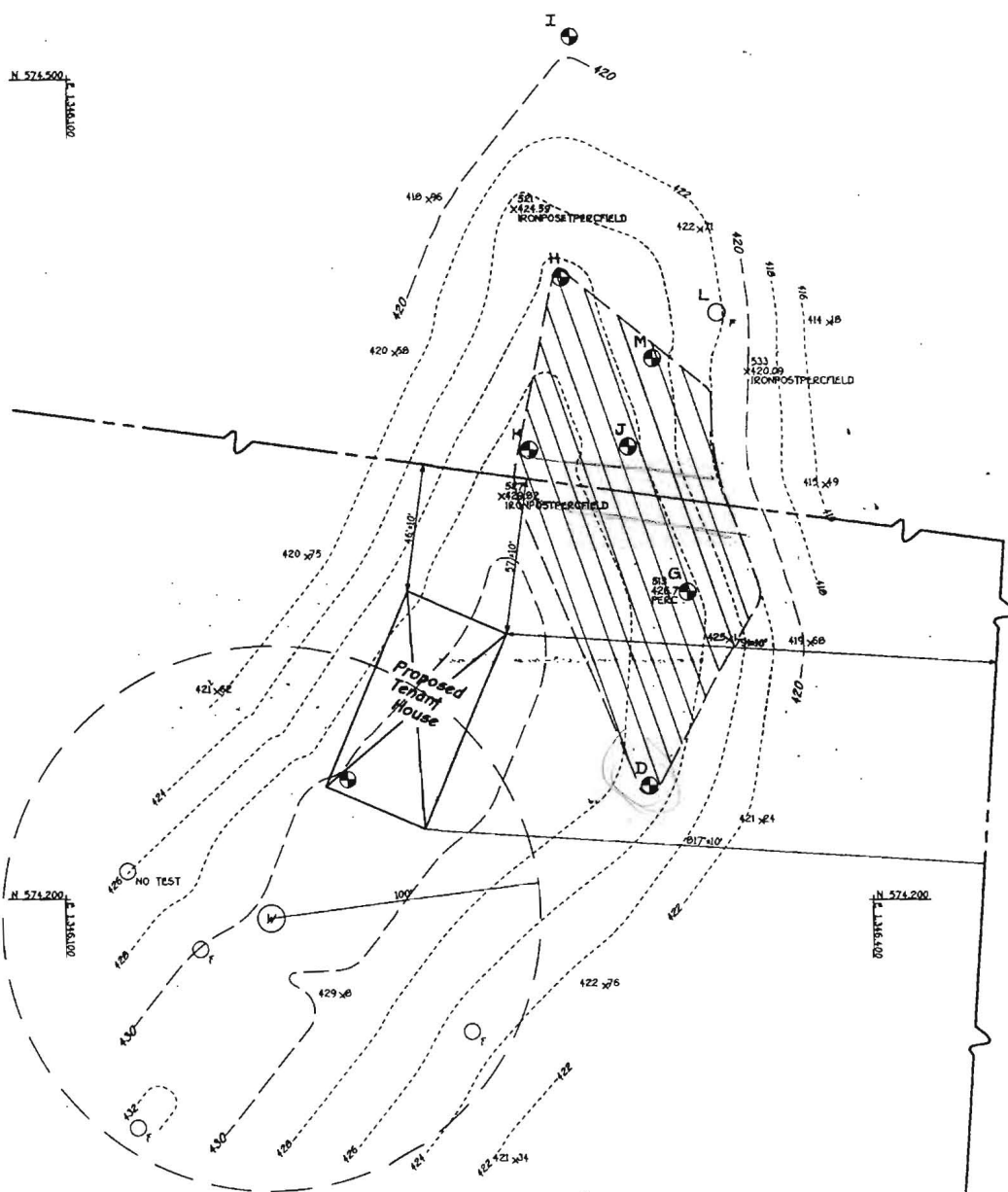
B-1  
 7"  
 dk brn se sbk  
 brn fine scl micaceous  
 2'  
 brn med sl sg micaceous  
 3'3"  
 dk brn w/ pale sl sg cemented (cw) micaceous saprolite

26.5 15-20% chert  
 13' B-8  
 brn sl sbk  
 brn sl  
 3'  
 quartz chert 20%  
 brn heavy sl  
 4'  
 dk brn coarse sl sg micaceous saprolite

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
6/2/08	B-4	6' / 13'	10:08		Not to 2"		F
	B-5	7' / 13'8"	12:19	12:51	No movement		F
	B-1	5'5" / 13'5"	10:50	11:07			
		8'	11:24	12:03		Not to 2"	F
	B-2	4'5" / 13'	11:02	11:25	Not to 2" net		
		6'	11:42	12:18	12:51	not to 2"	
	B-8	6' / 13'	12:53	12:58	1:07	9	P
	B-2	8'	1:55	2:03	2:35	32	F
	B-9	7'6" / 11'	2:55	3:10	No movement		F

REMARKS #B9 added in field #B2 moved up hole to avoid dicer - Holiday per plan.  
 SANITARIAN SS BACKHOE Fulster OTHERS \_\_\_\_\_

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



**VICINITY MAP**  
SCALE: 1" = 600'

**GENERAL NOTES:**

1. [Hatched Area] THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. [Circle with dot] DENOTES PERC HOLE LOCATION.
3. [Circle with cross] DENOTES PROPOSED WELL LOCATION.
4. OWNER & DEVELOPER:  
MR. JAMES CLARK JR.  
10300 CLARKSVILLE PIKE  
ELLCOTT CITY, MARYLAND 21042
5. TOPOGRAPHY SHOWN HEREON IS BASED UPON FIELD RUN TOPOGRAPHY SURVEYED BY FISHER, COLLINS AND CARTER, INC. ON OR ABOUT MAY, 1997.

PERC CERTIFICATION PLAT  
**CLARK PROPERTY**

TAX MAP 29      ZONED: RC-DEO      PARCEL: 3  
SECOND ELECTION DISTRICT      HOWARD COUNTY, MARYLAND  
SCALE: 1" = 30'      DATE: MAY 30, 1997

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.  
*[Signature]* 6-17-97      DATE  
COUNTY HEALTH OFFICER

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
ENTRANCE SQUARE OFFICE BUILDING - 15272 SAFFORD ROAD, P.O. BOX 100  
ELLCOTT CITY, MARYLAND 21042  
410-331-5995