COUNTY #

SOIL PROFILE

0' (512)

Red Br Heavy Loam — 3'

Or Br Si Cl Loam Very Little Rock — 5.5'–6'

Beige Sa Loam ~15% Saprolite — 8'

Caving — 9'

Wet Water — 10'

(523)

Red Br Heavy Loam ~10% Rock — 4.5'–5'

Beige Si Loam Very Little Rock Caving To Surface Water — 6'

(524)

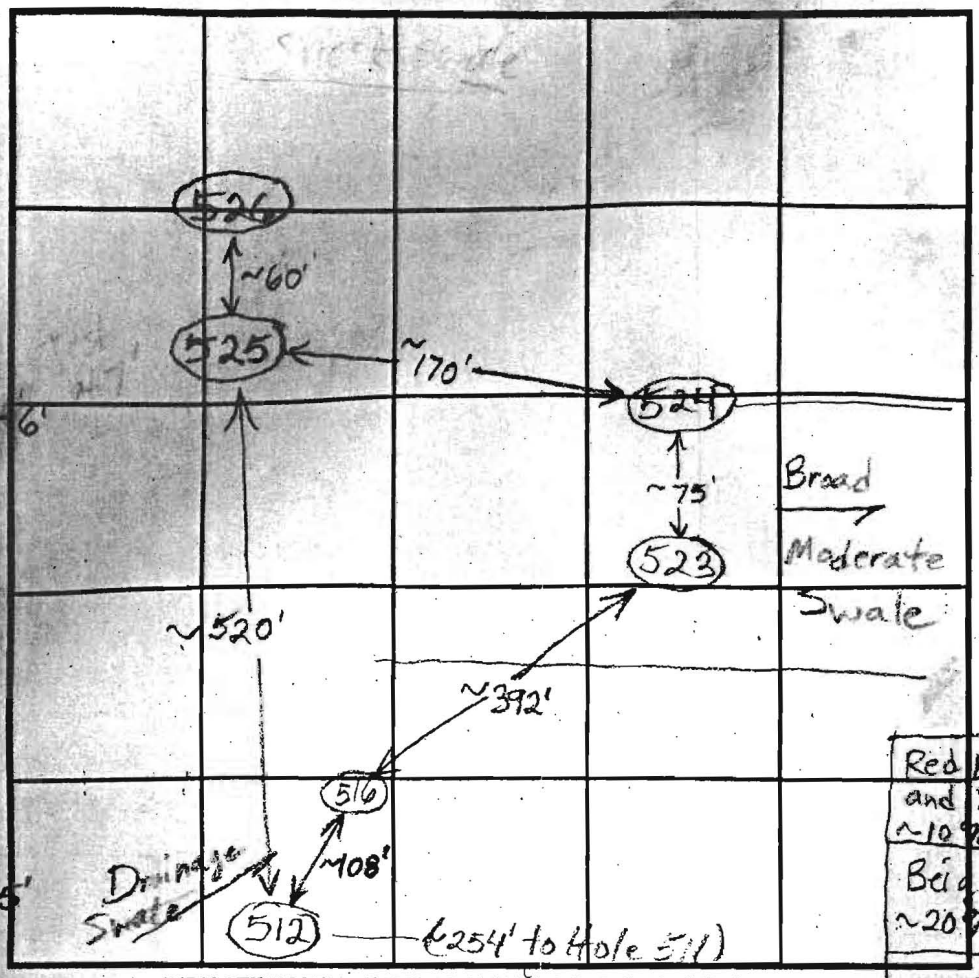
Red Br Heavy Loam — 4.5'–5'

Red Br Si Loam Trace Rock — 5.5'–6'

Med Br Sa Loam ~20% Saprolite — 7'

Caving — 8.5'

Wet Water — 9'/11'/12'



SOIL PROFILE

0' (525)

Red Br Heavy Loam — 3.5'–5'

Tan Sa Loam 15–20% Saprolite — 10.5'

Caving Water — 12'

(526)

Red Br Heavy Loam and Si Cl Loam ~10% Rock — 4.5'–5'

Beige Sa Loam ~20% Saprolite — 11.5'

Caving Water — 12'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Ten Oaks Road

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME	
1/9/04	512	5.5'/10'V	9:32:30	9:53	9:53	~7/8" in 30 minutes	Slow	(F)
		7'	9:32:30	9:37:45	9:37:45	9:47	9	
	523	6'V					(F)	
	524	6'/9.5'V	10:19	10:23:15	10:23:15	10:30:15	7	(F)
		7'	10:19:30	10:22:15	10:22:15	10:27:45	4½	
		5'	10:33	10:45	10:45	11:09	24	
	525	5'3"/12'V	10:52	10:58:45	10:58:45	11:14:15	15½	O.K.
		7'	10:52	11:00	11:00	11:09:30	9½	
	526	5.5'/12'V	11:18	11:22:15	11:22:15	11:29:45	7½	O.K.
		7.5'	11:18:30	11:25:30	11:25:30	11:37	11½	

REMARKS Don't Move Any Closer to Drainage Swale at 512

TYPE OF SOIL

TESTED BY B. Baker ALSO PRESENT

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ. FT/BEDROOM

COUNTY #

SOIL PROFILE (197)

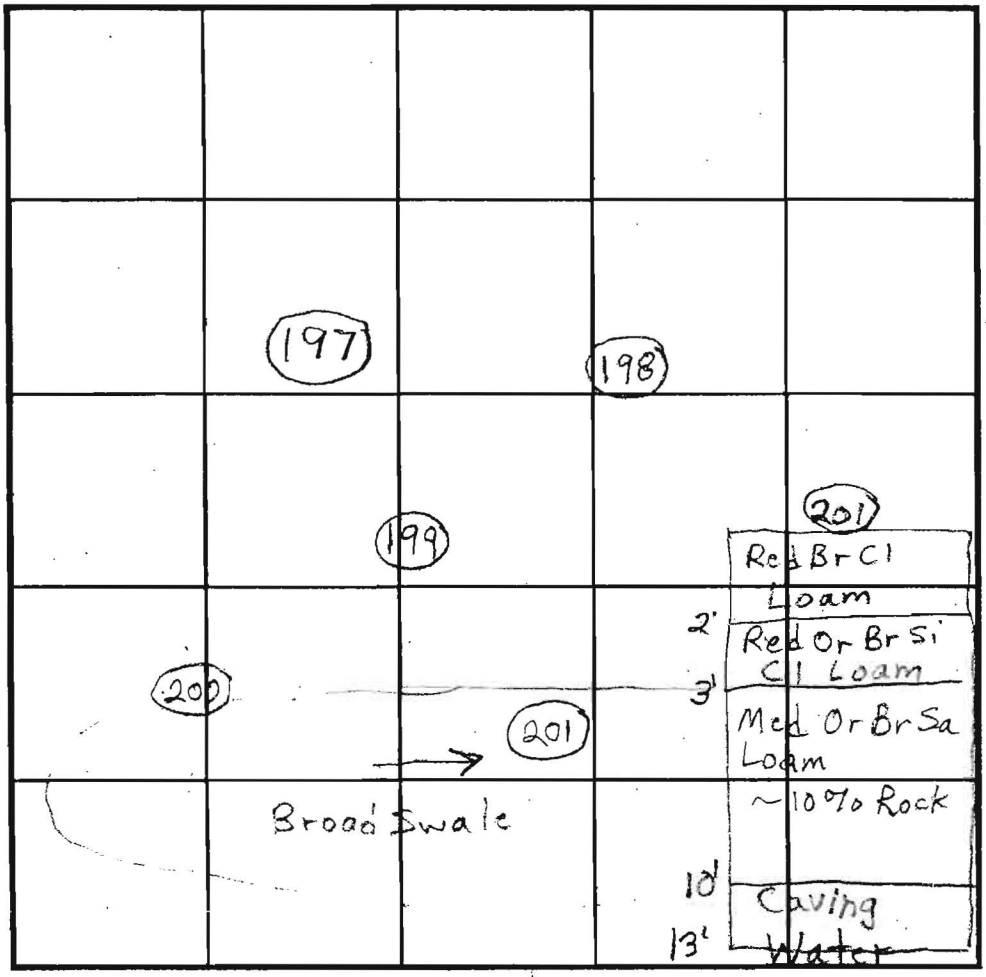
0'
Red Br Cl Loam
1'-5'
Or Br Si Cl Loam
3.5'
Tan and Red Si Loam ~10% Rock
15'

SOIL PROFILE (199)

3'
Red Br Cl Loam
Red Br Si Cl Loam
1'-5'
Brown and Reddish Brown Si Loam 10-15% Rock
15.5'

SOIL PROFILE (198)

Red Br Clay Loam
3.5'-4'
Red Or Br SaCl Loam
5'-5.5'
Light Br Sa Loam ~10% Rock
15.5'



SOIL PROFILE (200)

0'
Red Br Cl Loam
2.5'
Or Br Si Cl Loam
3.5'-5'
Light Br Si Loam and Or Br Sa Loams ~10% Rock
15'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Ten Oaks Road

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME	
11/29/01	*197	4.5'/15'V	2:02	– Pulled, Slow →			Slow	
	199	5.5'-6'/15.5'V	2:15	2:17	2:17	2:19:30	2½	OK
	198	5.5'/15.5'V	2:32	2:35	2:35	2:42	7	OK
	197	5.5'	2:37	2:45	2:45	3:07	22	OK
	200	4.5-5'/15'V	2:50	2:51	2:51	2:54	3	OK
	201	4'-4.5'/13'V	3:09			3:10:30	1½ Total	
		Repour	3:11	3:11:40	3:11:40	3:12:45	1min5sec	(F)
		Repour	3:13:20	3:14:15	3:14:15	3:15:35	1min20sec	
		Repour	3:16:30	3:17:40	3:17:40	3:19:10	1½	
		Fail	due to	fast rate. Also,	needs WS	test		

REMARKS *197 - dig deeper shelf for further review

TYPE OF SOIL

TESTED BY Brian Baker ALSO PRESENT HATFIELDS - Donny

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

COUNTY #

SOIL PROFILE

195

0' Red Br Cl Loam

3.5' Red Or Br Si Cl Loam

5' Br si Loam

7' Light Br Sa Loam To Bottom ~10% Rock

9' Pocket of >50% Rock

10.5' No Caving

12.5' ~~Water~~

194

Red Br Cl Loam

3'

Or Br Cl Loam

4'

Or Br Si Cl Loam

6'

Light Br Sa Loam 5-10% Rock

13'8"

196

Red Br Rocky Cl Loam

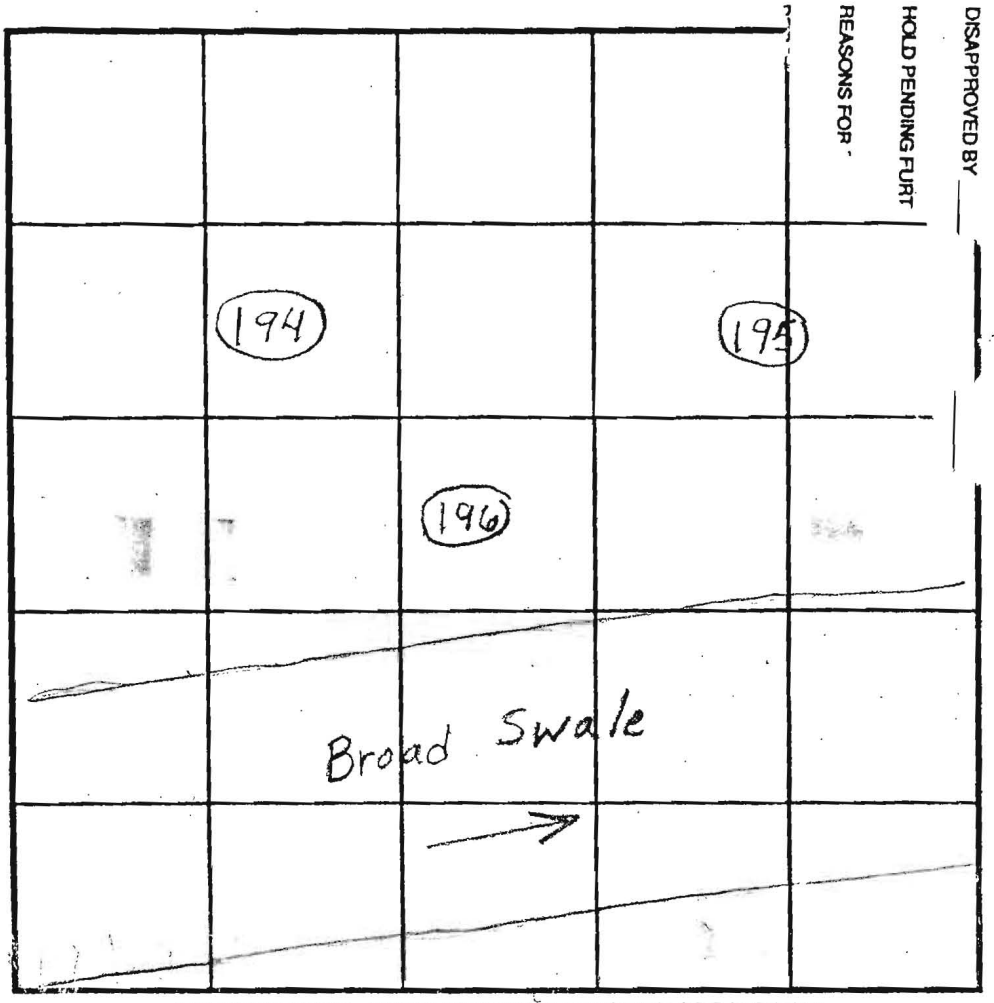
2.5-3'

Or Br and Red Br Si Cl Loam

5.5-6'

Or Br and Red Br Sa Loam 5-10% Rock

1m'



THE SYSTEM INSTALLED UNDER THIS APPLICATION IS

FEE CONNECTED WITH THE FILING OF THIS PERC

COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TEST

APPROVED BY

DISAPPROVED BY

HOLD PENDING FURT

REASONS FOR

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Ten Oaks Road

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST - 1" DROP START	TEST - 1" DROP STOP	TIME	
11/29/01	195	5'-5.5'/12.5'V	3:30	3:36	3:36	4:01	25	A
12/11/01	194	7'/13'8"V	10:22	10:25	10:25	10:29	4	OK
	196	7'/15'V	10:33	10:34	10:34	10:36	2	O

REMARKS Holes dug per plan Need at least one more hole 75' from the other holes Estab SDA

TYPE OF SOIL

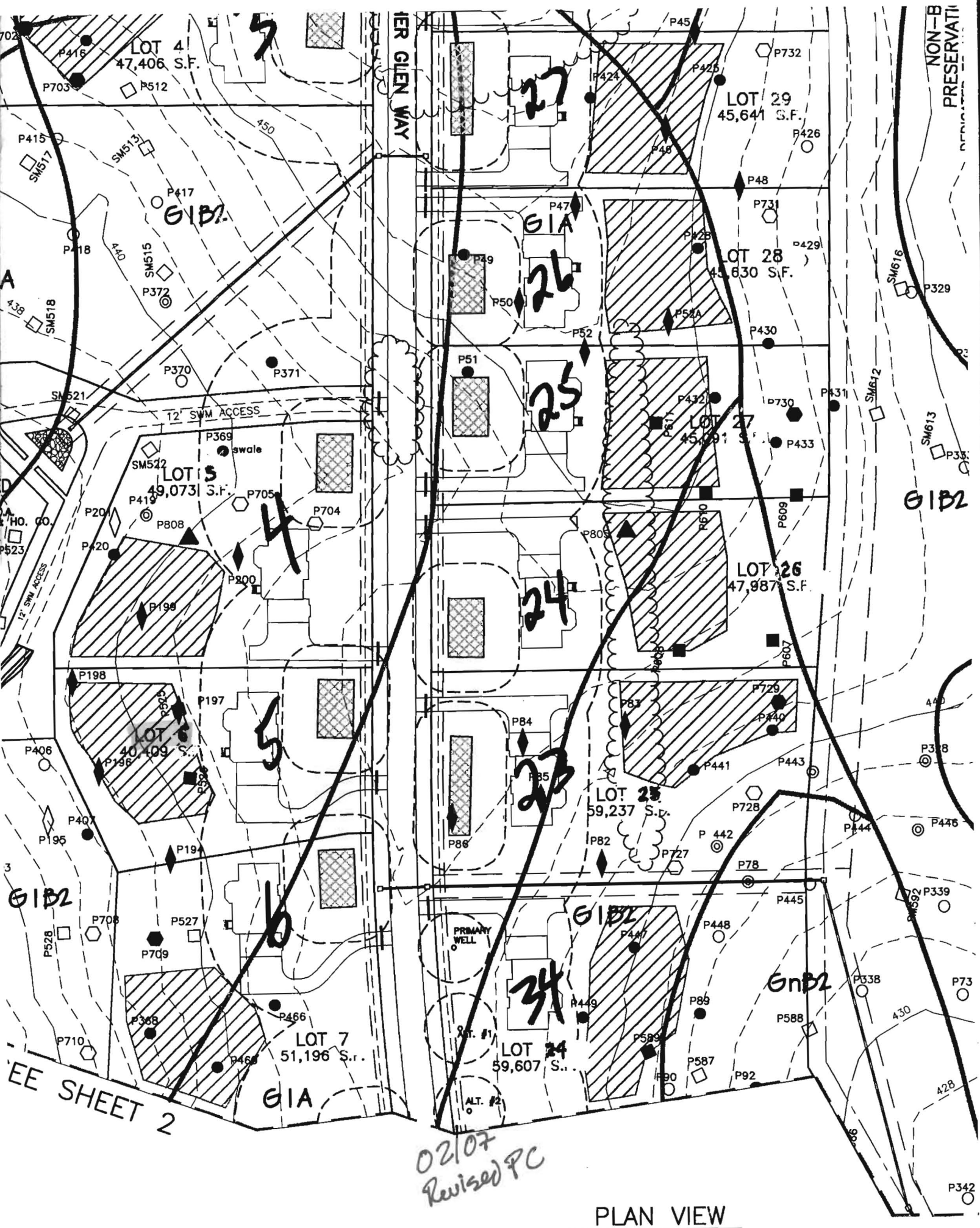
TESTED BY Brian Baker ALSO PRESENT HATFIELDS - Donny

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

SQ. FT/BEDROOM

Approved revised
per cert
12-28-07

PLAN VIEW
SCALE: 1" = 100'

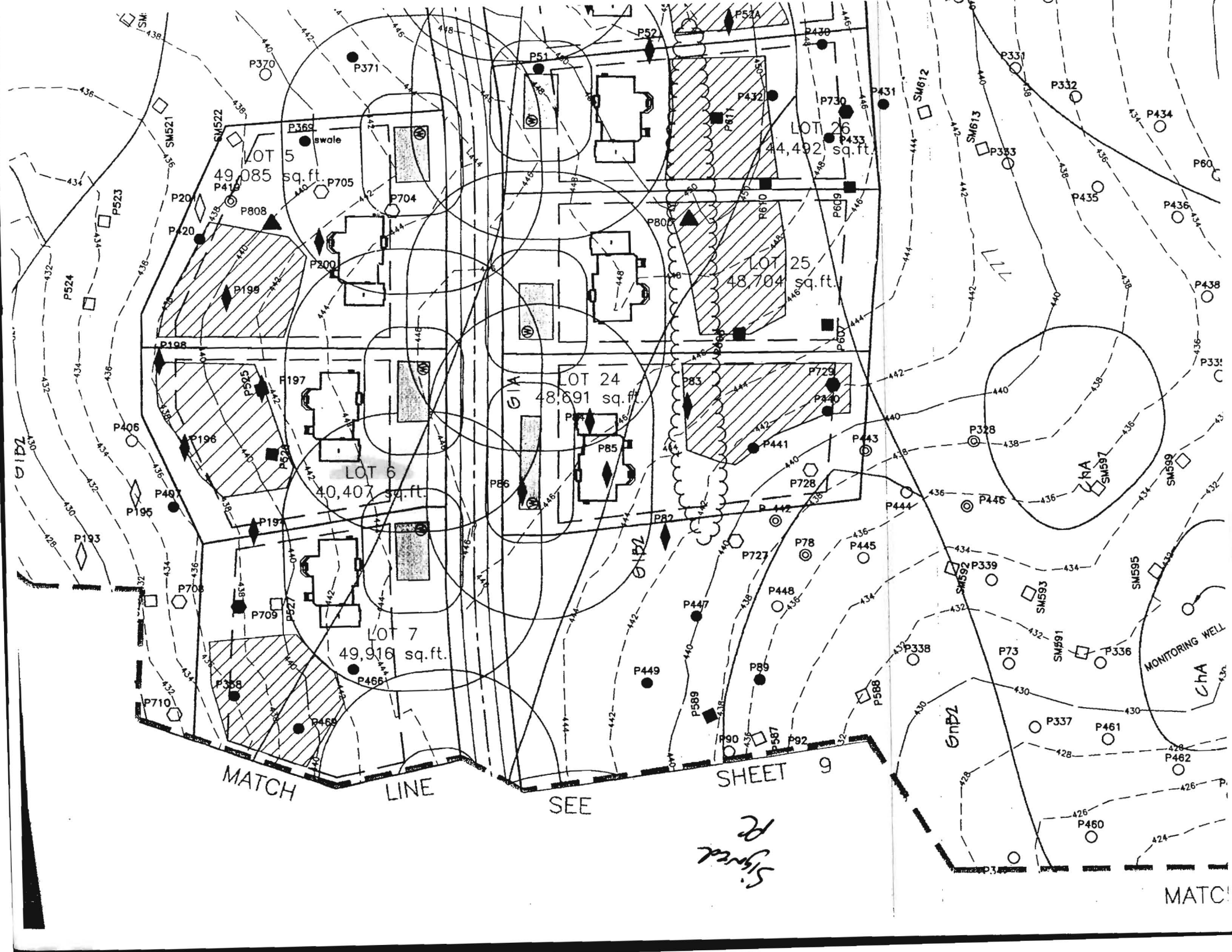


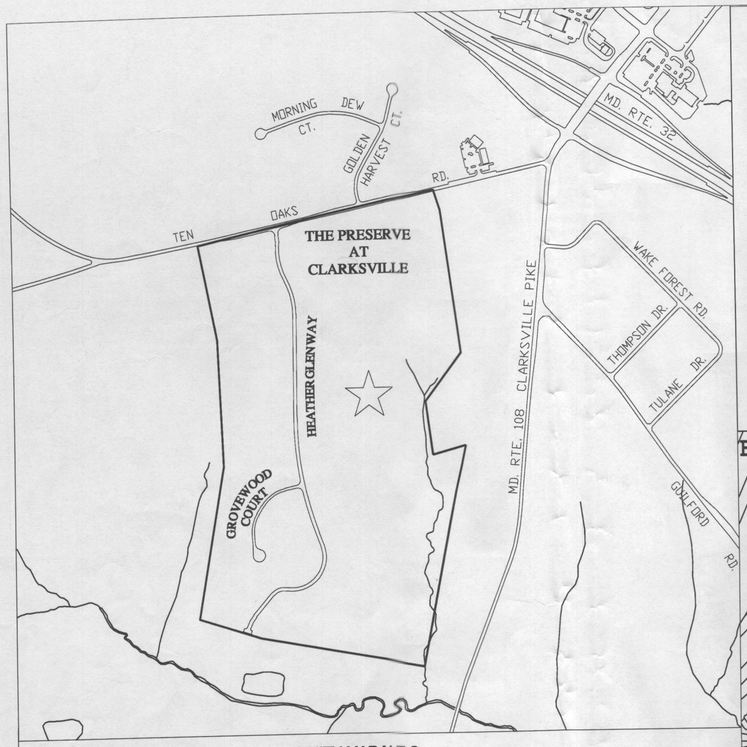
PLAN VIEW

SCALE: 1" = 100'

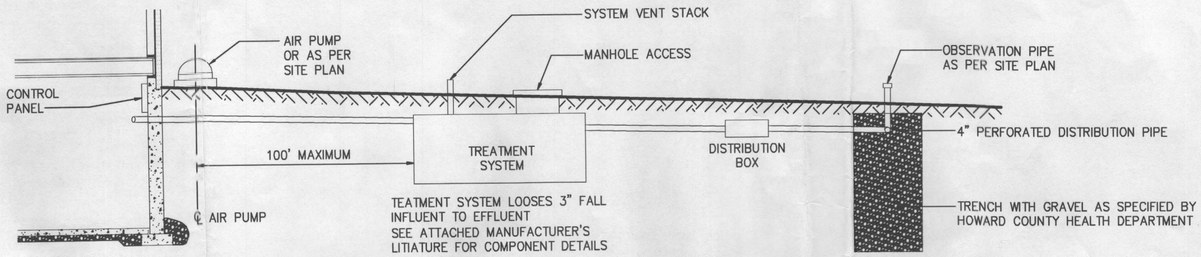
Signed P_Plan

PLAN VIEW
SCALE: 1" = 100'


LOT 5
49,085 sq.ft.
LOT 6
40,407 sq.ft.
LOT 7
49,916 sq.ft.
LOT 24
48,691 sq.ft.
LOT 25
48,704 sq.ft.
LOT 26
44,492 sq.ft.
swale
MONITORING WELL
MATCH LINE SEE SHEET 9
MATCH

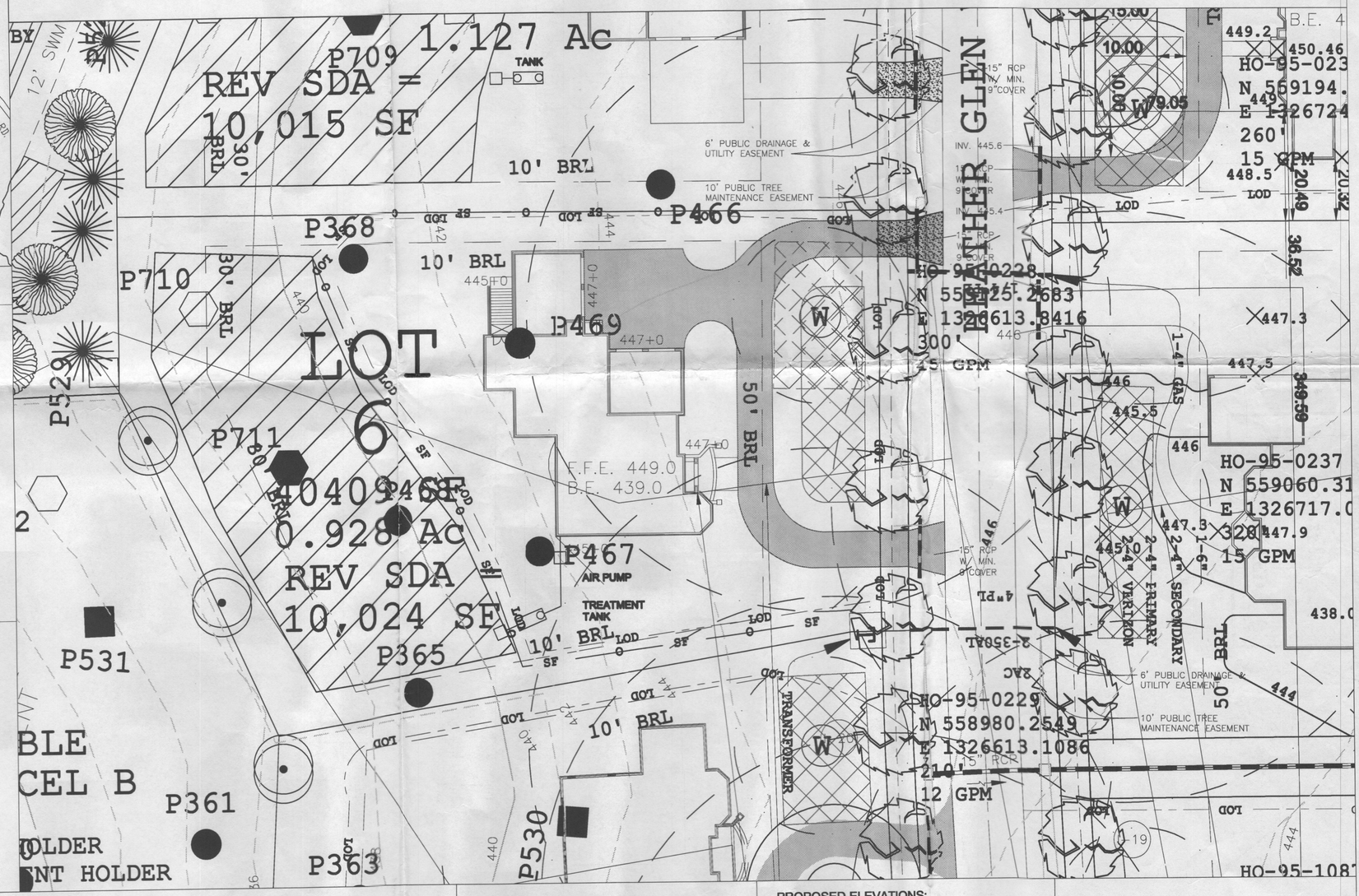


VICINITY MAP N.T.S.



2 SITE-1 **BAT COMPONENT CROSS SECTION**

SCALE: N.T.S.



LEGEND

- LIMIT OF DISTURBANCE
- SILT FENCE
- EXISTING CONTOURS (2' INTERVALS)
- EXISTING TREELINE
- PROPOSED TREELINE
- CL STREAM
- LIMIT OF WETLANDS
- FCE FOREST CONSERVATION SIGNAGE
- SPECIMEN TREE
- LIMIT OF 100YR FLOODPLAIN
- FOREST CONSERVATION EASEMENT
- FOREST CONSERVATION EASEMENT RETENTION AREA
- PRIVATE SEWAGE
- ABANDONED WELLBOX
- WELL REPLACEMENT AREA
- CONSTRUCTION DRIVE
- P416 PERC PASSED - 2003
- P711 PERC PASSED - FEBRUARY 2004
- P703 PERC PASSED - JUNE 2004
- P705 PERC FAILED - JUNE 2004

BAT SITE PLAN NOTES:

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 REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 4 FEET.
3. THE BLOWER MAY NOT BE LOCATED MORE THAN 100 FEET FROM THE TANK BASED ON MANUFACTURER'S SPECIFICATIONS.
4. THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
5. THE BAT SHALL BE OPERATED BY AND MAINTAINED BY A CERTIFIED SERVICE PROVIDER.
6. WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
7. ELLECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
8. AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
9. THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.
10. THERE ARE NO "ON LOT" STORM WATER MANAGEMENT FEATURES ON THIS LOT.
11. THERE ARE NO STREAMS, PONDS, FLOOD PLAINS OR 25% AND GREATER SLOPES ON THIS LOT.
12. SYSTEM DESIGNED FOR 5 BEDROOMS.

GENERAL NOTES:

1. THIS AREA ////// DESIGNATES A PRIVATE SEWAGE ARE OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THISE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
2. TOPOGRAPHY SHOWN IS TWO-FEET CONTOUR INTERVALS AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
3. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
4. EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WITHIN 200' DOWNGRADIENT OF EXISTING OR PROPOSED SEPTIC OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN USING ALL RESONABLE EFFORTS.
5. THE LOT SHOWN HERON WAS RECORDED ON THE PLAT # 19214 ET. SEQ. REFER TO PLAT FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS, ANY RESTRICTIONS, AND PROVISIONS.
6. THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY A PROFESSIONAL LAND SURVEYOR AND ARE ACCURATELY SHOWN.
7. TESTING AND RESULTS FOR GROSS ALPHA, GROSS BETA AND VOC'S WILL BE REQUIRED PRIOR TO USE AND OCCUPANCY.

SITE SPECIFIC NOTES

Plot Plan Lot # 6

1. ALL DRIVEWAY CULVERTS ARE TO BE 15" RCP OR HDPE WITH MINIMUM 9" COVER
2. ANY WELL DRILLED WITHIN 10' OF DRIVEWAY TO BE PROTECTED WITH TWO BOLLARDS.
3. PAVING SPECIFICATIONS: 2" ASPHALT OVER 4" CR-6 OR 2.5" ASPHALT OVER 1.5" OVERLAY

PROPOSED ELEVATIONS:

TOP OF BASEMENT SLAB:	439.2
TOP OF FOUNDATION WALL:	447.8
TOP OF FIRST SUBFLOOR:	449.0
INVERT OUT OF HOUSE:	443.5
INVERT INTO TANK:	440.8
INVERT OUT OF TANK:	440.3
INVERT INTO DISTRIBUTION BOX:	440.0
GRADE AT HOUSE INVERT:	445.0
GRADE AT SEPTIC TANK:	442.0
GRADE AT DISTRIBUTION BOX:	441.5
GRADE AT TRENCHES:	440.5

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF HOWARD COUNTY.

Maura J. Rossman, M.D., Health Officer — DATE 10/29/2013

I certify that the information shown heron is based on field work performed under my direct supervision and is correct, to the best of my knowledge and belief.

Dale Thompson — DATE 25 Sep 2013

SEPTIC DESIGN PARAMETERS:

1st Floor Sq. Ft.	3104 sq.ft.
2nd Floor Sq. Ft.	3891 sq.ft.
Basement Sq. Ft.	3104 sq.ft.
Number of Bedrooms	5

TAGGED WELL DATA

TAG NUMBER:	HO-95-0228
NORTHING:	559125.2683
EASTING:	1326613.8416
WELL YIELD:	15 GPM
WELL DEPTH:	300'

N

DEVELOPER: Dayton Oaks, LLC

BUILDER: Compass Homes, 6206 Heather Glen Way, Clarksville, MD 21029

SCALE: 1:30 DATE: 9/25/13

PROJECT NAME: Phung Residence, PC-6, PRESERVE @ CLARKSVILLE, CLARKSVILLE, HOWARD COUNTY, MARYLAND

TITLE: SITE PLAN LOT #6, 6238 Heather Glen Way, Clarksville, Maryland 21029

PURPOSE: Revise Well Box Easement, Revised perc cert