

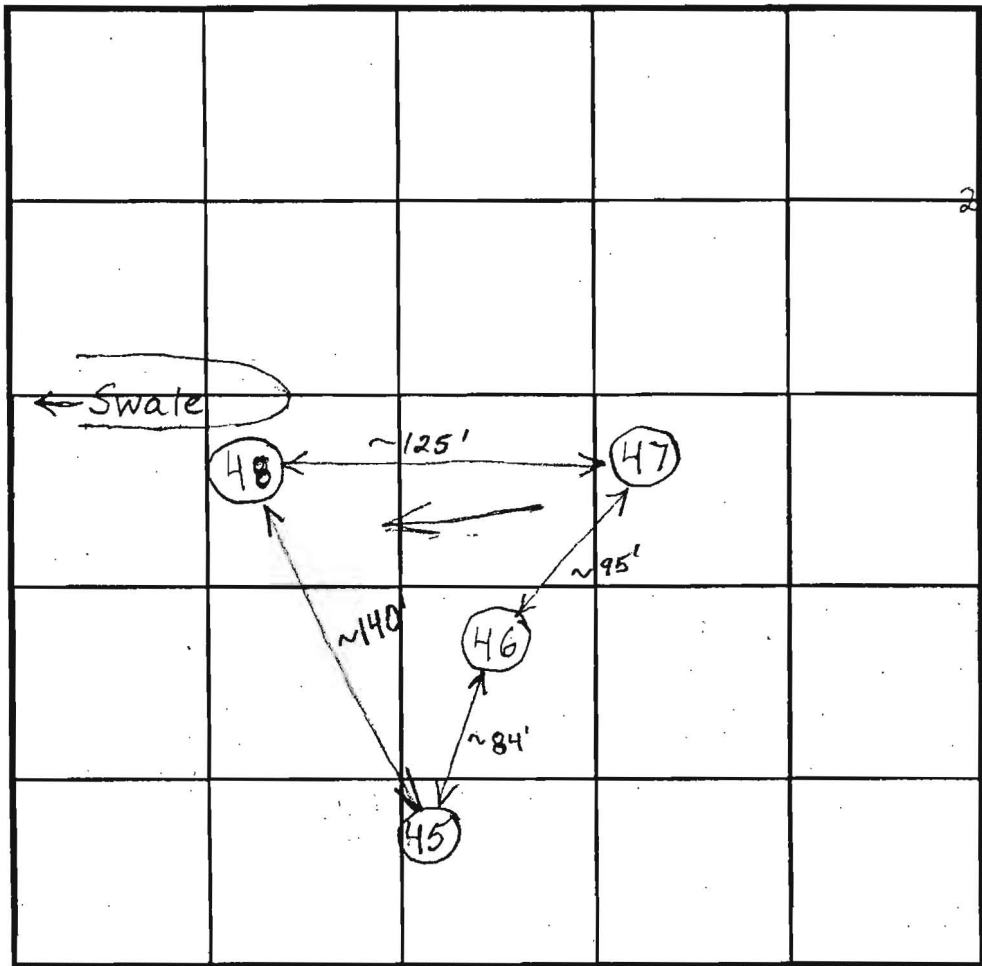
COUNTY #

SOIL PROFILE

0' (47)  
 Red Br  
 Cl Loam  
 2.5' Red Or Br  
 Si Cl Loam  
 6' Light Br  
 and Tan  
 Si Loam  
 ~10%  
 Rock  
 16'

(46)  
 Red Br  
 Cl Loam  
 2' or Br Si  
 3.5' Cl Loam  
 Med Br  
 Sa Loam  
 ~10%  
 Rock  
 15'

(45)  
 Red Br Cl  
 Loam  
 3' Or Br Si  
 4' Cl Loam  
 Med Br  
 and Light  
 Br Si Loam  
 10-15%  
 Rock  
 4.5' Caving  
 15' Water



SOIL PROFILE

0' (48)  
 Red Br  
 Cl Loam  
 2.5' Or Br Si  
 3' Cl Loam  
 Light Or  
 Br Sa.  
 Loam  
 17.5' Caving  
 14' Water

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

ten Oaks Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
11/29/01	47	7' / 16' V	11:48	11:50	11:50	11:53:30	3 1/2	
		4.5	11:59	12:08	12:08	- Slow		
	46	5.5' / 15' V	12:27:30	12:28:30	12:29:30	12:30:30	2	OK
	45	6' / 15' V	12:42	12:43:30	12:43:30	12:46	2 1/2	
	48	5' / 14' V	12:55	12:55:30	12:55:30	12:56:45	1 1/4	WS
		Repour	12:58	12:59:45	12:59:45	12:02:10	~3	
	47	5'-5.5'	1:12	1:18	1:18	1:28	10	OK
	45	4.5'	1:31	1:38	1:38	1:54	16	WS

REMARKS Holes dug per plan

TYPE OF SOIL

TESTED BY Brian Baker ALSO PRESENT HATFIELD'S - Denny

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ FT BEDROOM

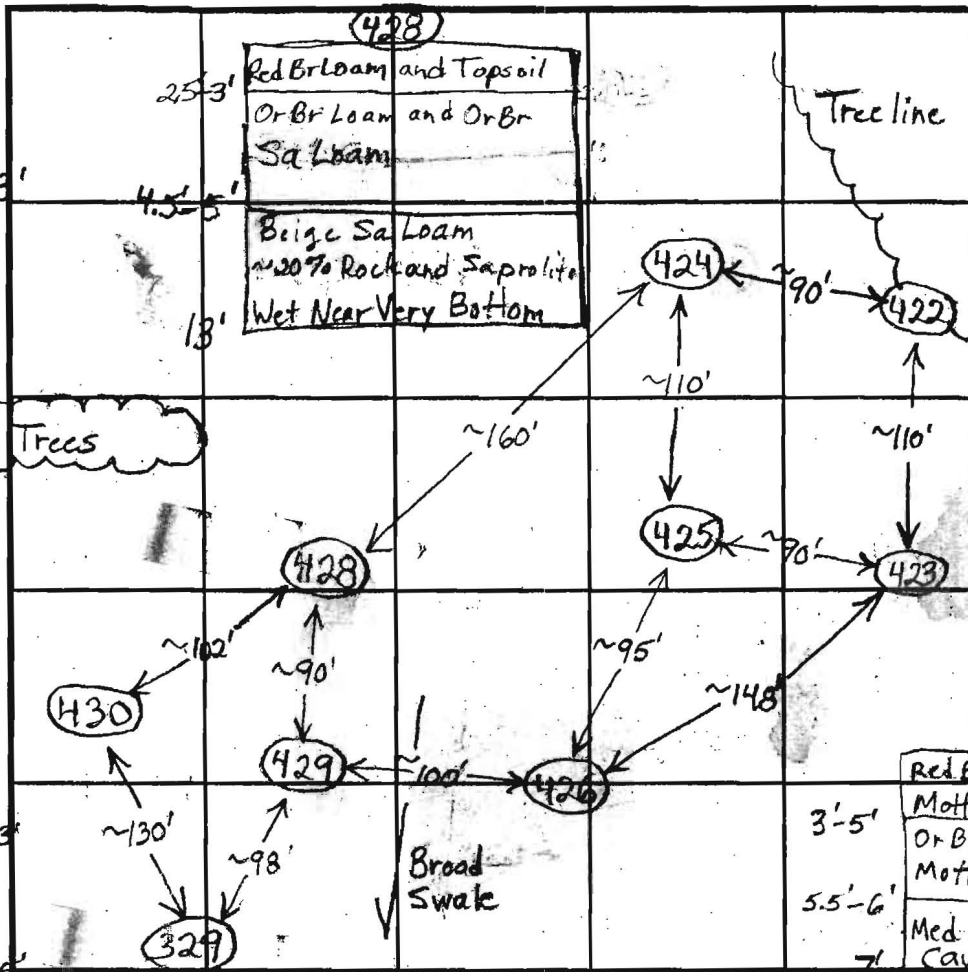
COUNTY #

SOIL PROFILE

0' (424)  
 Red Br Heavy 25'-3'  
 Red Br and Or Br Heavy Loam and Loam 5'  
 Or Br Loam and Or Br Sa Loam 7'  
 15-20% Rock and Saprolite  
 Or Br Sa Loam, ~20% Rock and Saprolite 13.5'

(425)  
 Red Br Loam 2.5'-3'  
 Red Br Loam, Or Br Loam and Or Br Sa Loam ~10% Rock 5'-6.5'  
 Or Br Sa Loam ~20% Rock and Saprolite 12'  
 Gray Mottling Below 10.5'  
 Caving Water 11.5'

(426)  
 Or Br Loam and Topsoil 2.5'-3.5'  
 Red Br Si Loam and Or Br Sa Loam 4.5'-5.5'  
 Or Br Sa Loam ~20% Rock and Saprolite 9'  
 Gray Mottling Below 8'  
 Wet-Caving Water 10.5'



SOIL PROFILE

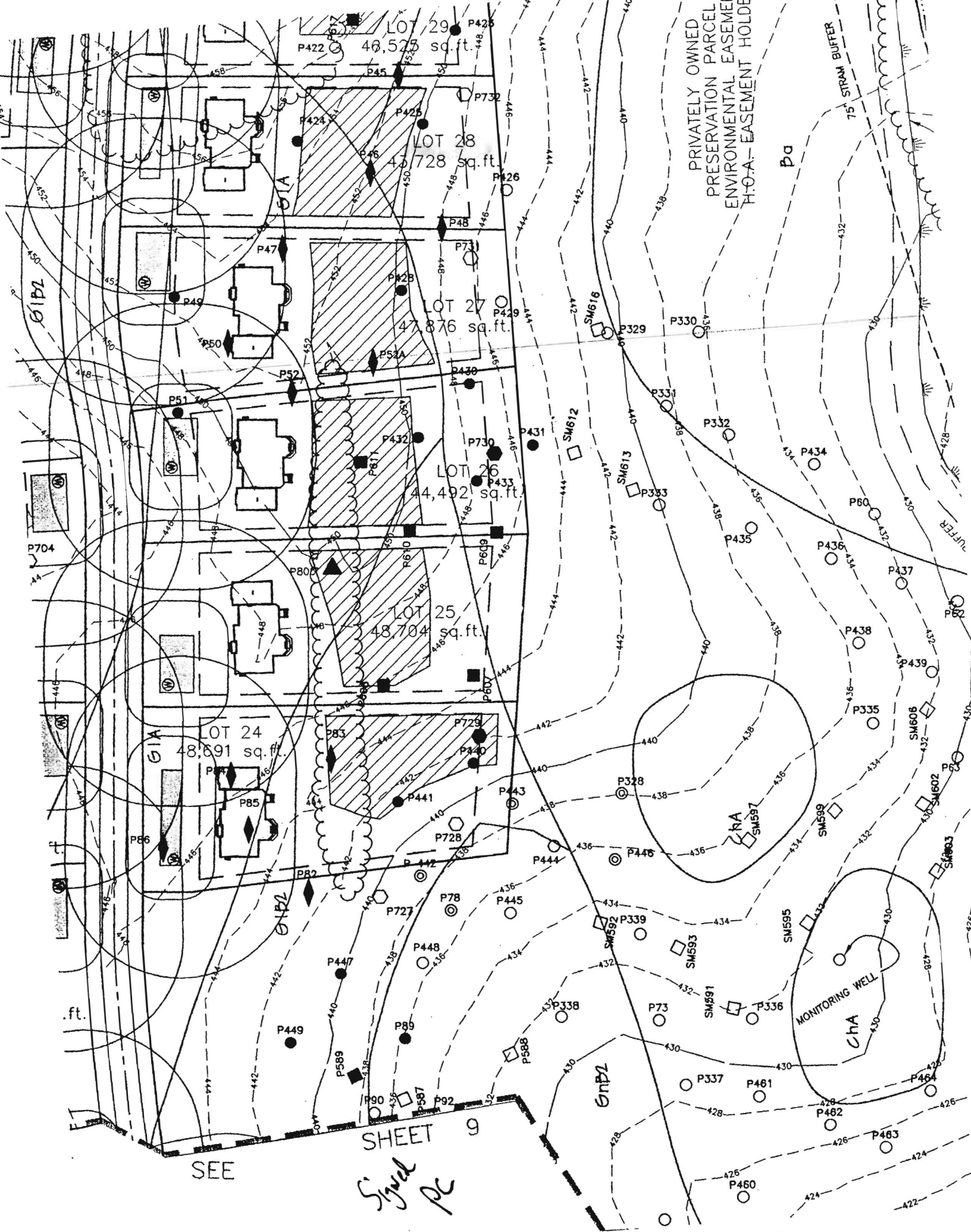
0' (429)  
 Red Br Loam and Topsoil 2.5'  
 Or Br and Br Wet Sa Loam Caving Below 4'  
 Gray Mottling Throughout Very Little Rock  
 Water 10'

(329)  
 Red Br and Or Br Gray Mottled Heavy Loam 3'-5'  
 Or Br Loam With Gray Mottling, Very Little Rock 5.5'-6'  
 Med Br Mottled Sa Loam Caving In, Very Little Rock  
 Water Wet 8'

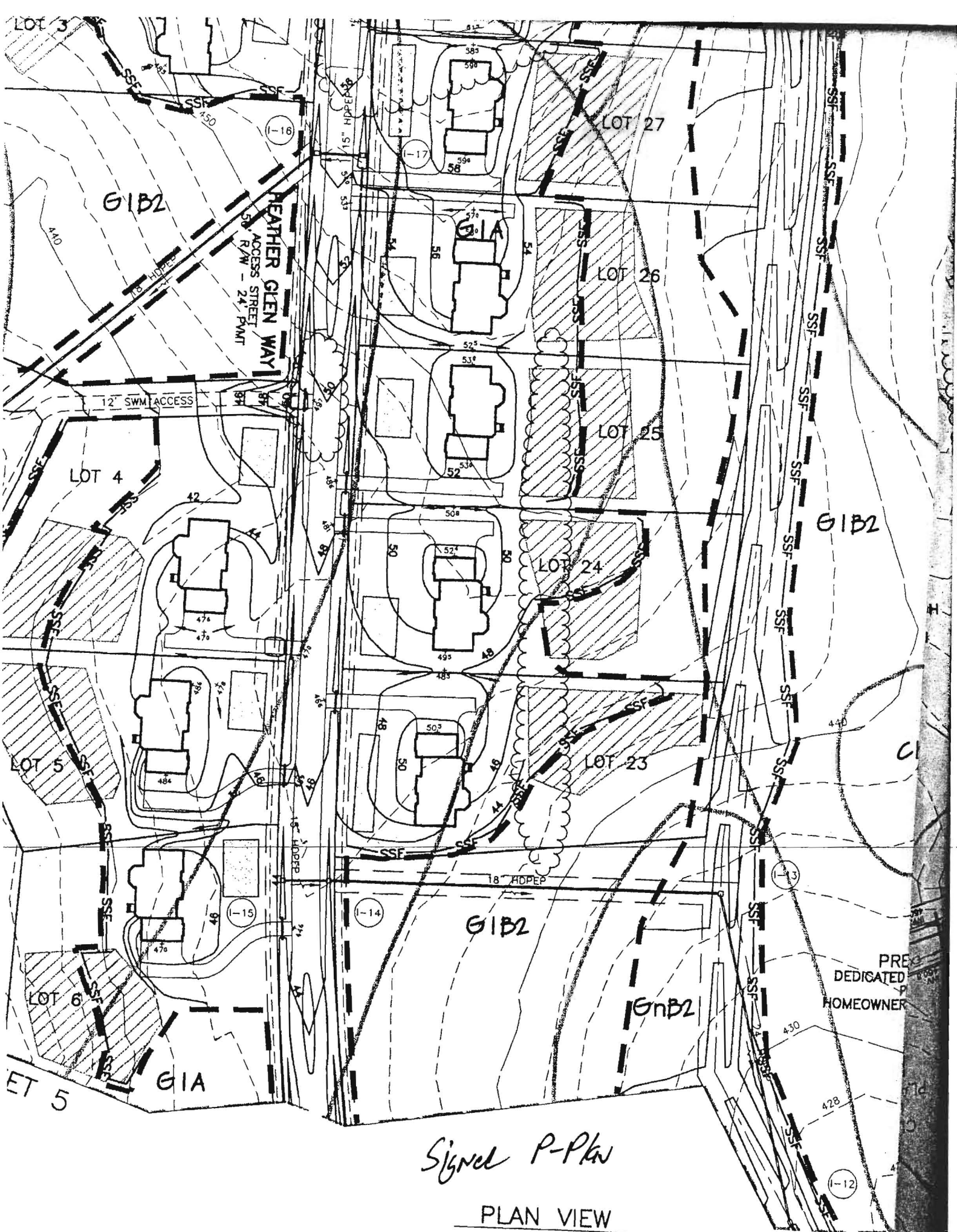
INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
4/18/03	424	6' / 13.5'	10:08:30	10:16:30	10:16:30	10:30	13 1/2	O.K.
		7.5'	10:08:15	10:12:40	10:12:40	10:18:40	6	
	425	4' / 12' V	10:25:30	10:34:30	10:34:30	10:45:30	11	O.K.
		7.5'	10:25:45	10:29:30	10:29:30	10:34:30	5	
	426	3' 10" / 10.5'	11:03:15	11:13:30	11:13:30	11:38:30	25	Marg.
		7'	11:03	11:08	11:08	11:14	6	
	329	8' V					(F)	
	429	10' V - Sides Caved In					(F)	
	428	5' 8" / 13' V	12:08:15	12:11:50	12:11:50	12:18	~6	O.K.
		7'	12:08	12:12:30	12:12:30	12:20	7 1/2	
		4' 2"	12:25	12:34	12:34	12:51	17	

REMARKS \_\_\_\_\_  
 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 \_\_\_\_\_



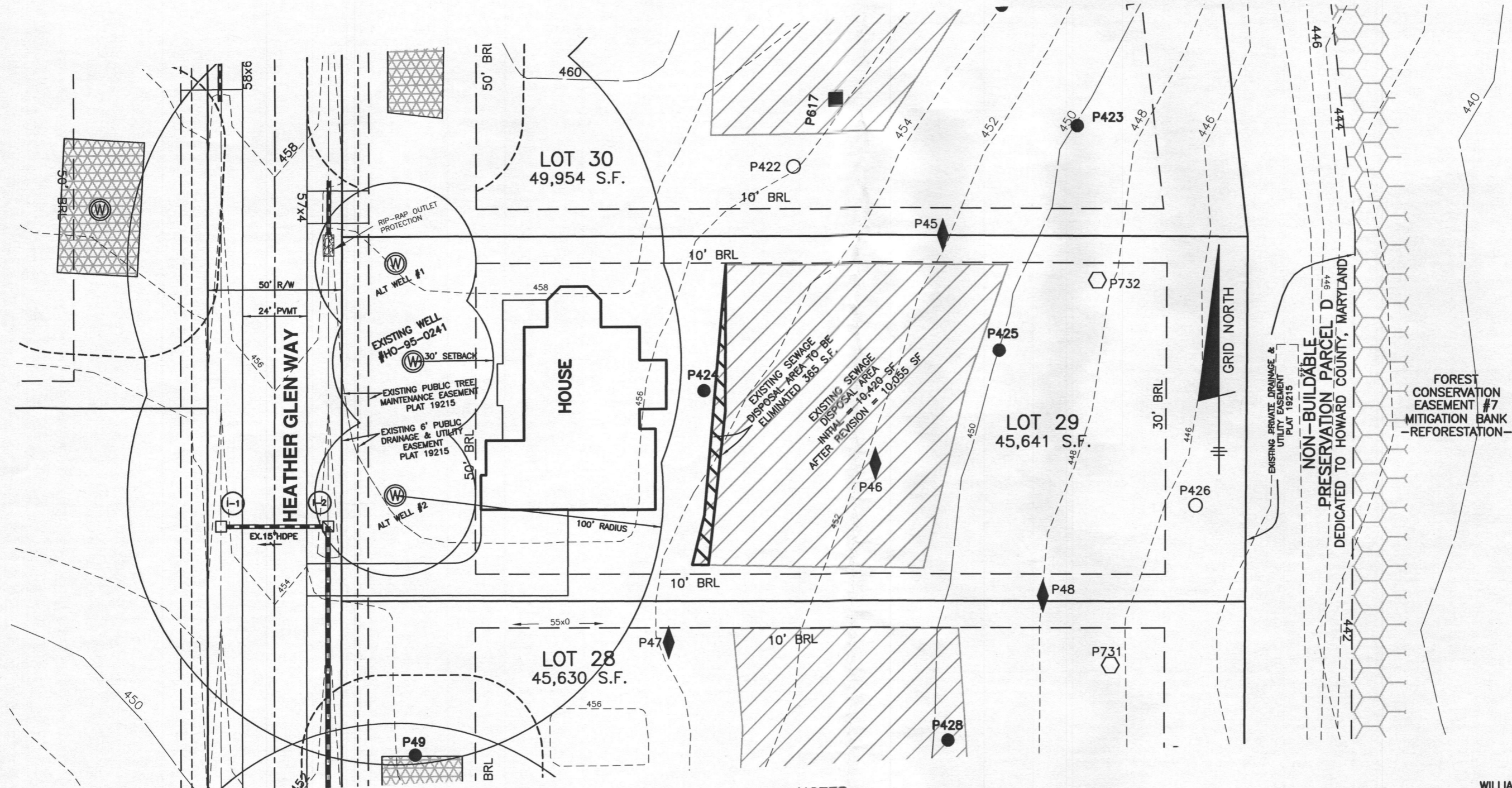




*Signed P-Pkw*

PLAN VIEW  
SCALE: 1" = 100'





- ◆ PASSED TEST HOLE TESTED NOV-DEC 2001
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- FAILED TEST HOLE TESTED APRIL/MAY 2003
- ⬡ FAILED TEST HOLE TESTED JUNE 2004
- ⊙ WELL LOCATION
- ▨ 1,500 SF WELL BOX

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315 ▲ ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

*David Thompson*  
HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE 7/23/13

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

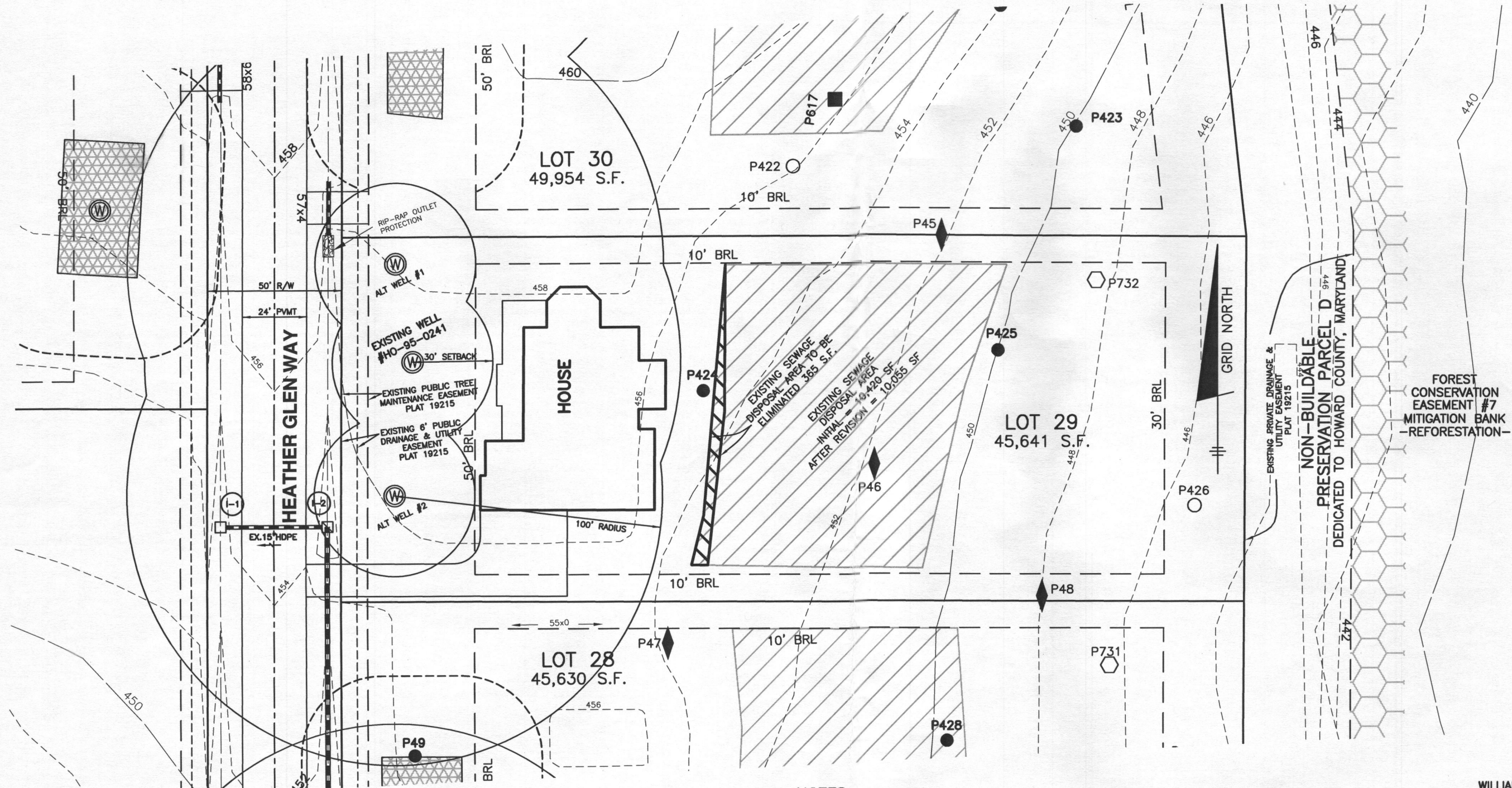
*David Thompson*  
DAVID THOMPSON  
PLAN PREPARER

**NOTES:**

1. THE TOPOGRAPHY OF THIS PLAN IS TAKEN FROM FIELD SURVEY BY BENCHMARK ENGINEERING, INC. AND SIGNED F-06-072 PLANS AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
2. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
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6. THE EXISTING WELL ON THIS LOT (TAG NO. HO-95-0241) HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.

**BUILDER:**  
WILLIAMSBURG HOMES, INC 5485  
HARPERS FARM ROAD SUITE 200  
COLUMBIA, MARYLAND 21044  
410-997-8800

<b>THE PRESERVE AT CLARKSVILLE LOT 29</b>	
6223 HEATHER GLEN WAY TAX MAP: 34 GRID: PARCEL: 77 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
<b>REVISED PERCOLATION CERTIFICATION PLAN</b>	
DATE: JULY 8, 2013	BEI PROJECT NO. 1407-W
SCALE: 1" = 40'	DRAWING 1 OF 1



- ◆ PASSED TEST HOLE TESTED NOV-DEC 2001
- PASSED TEST HOLE TESTED APRIL/ MAY 2003
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- ▨ 1,500 SF WELL BOX

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315 ▲ ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

*For Maura Redman* 7/23/13  
HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE  
2013

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*  
DAVID THOMPSON  
PLAN PREPARER

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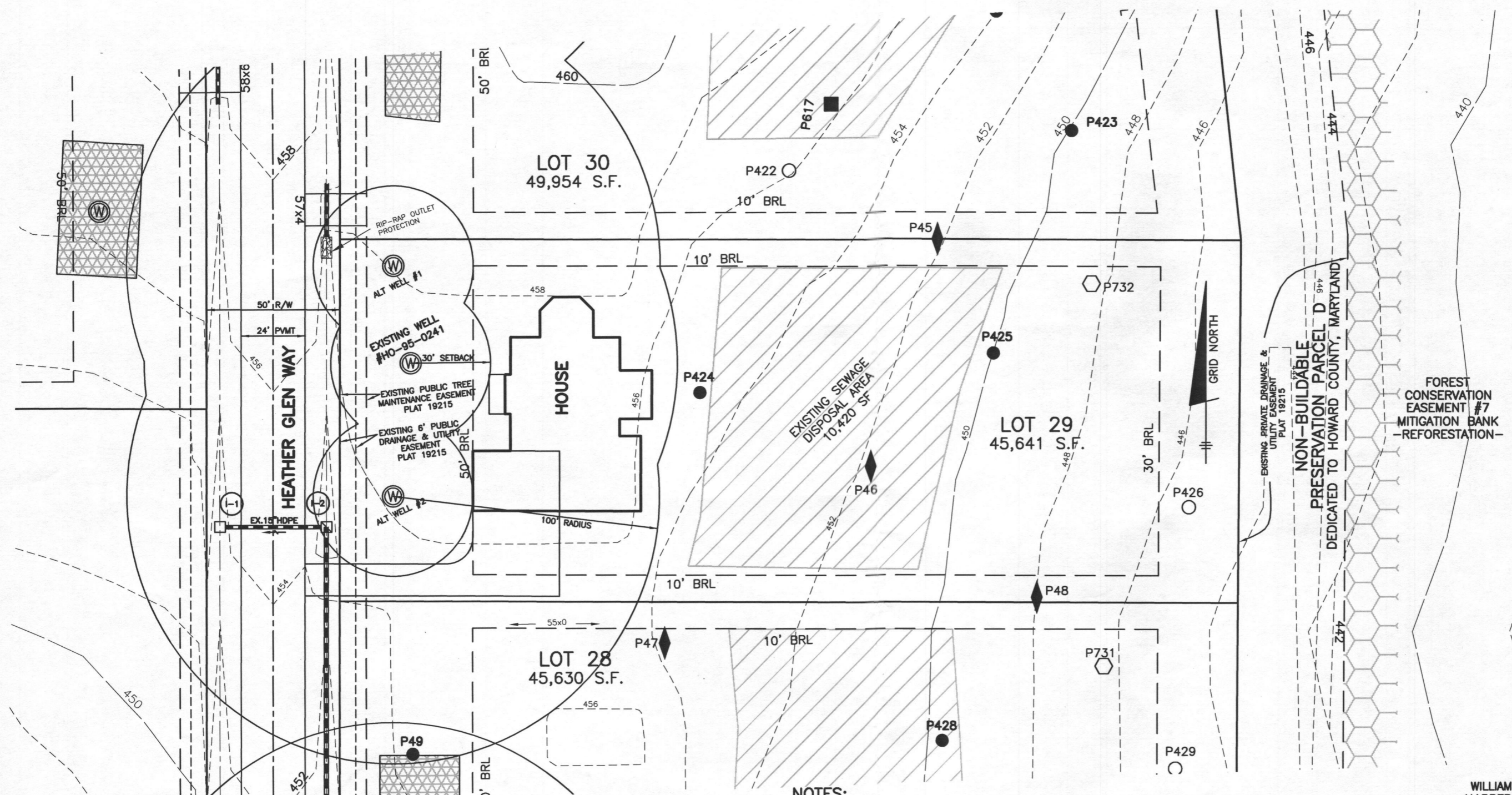
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**BUILDER:**  
WILLIAMSBURG HOMES, INC 5485  
HARPERS FARM ROAD SUITE 200  
COLUMBIA, MARYLAND 21044  
410-997-8800

<b>THE PRESERVE AT CLARKSVILLE</b>	
<b>LOT 29</b>	
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DATE: JULY 8, 2013	BEI PROJECT NO. 1407-W
SCALE: 1" = 40'	DRAWING 1 OF 1

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- ⬡ FAILED TEST HOLE TESTED JUNE 2004

⊙ WELL LOCATION  
 [Hatched Box] 1,500 SF WELL BOX



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 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
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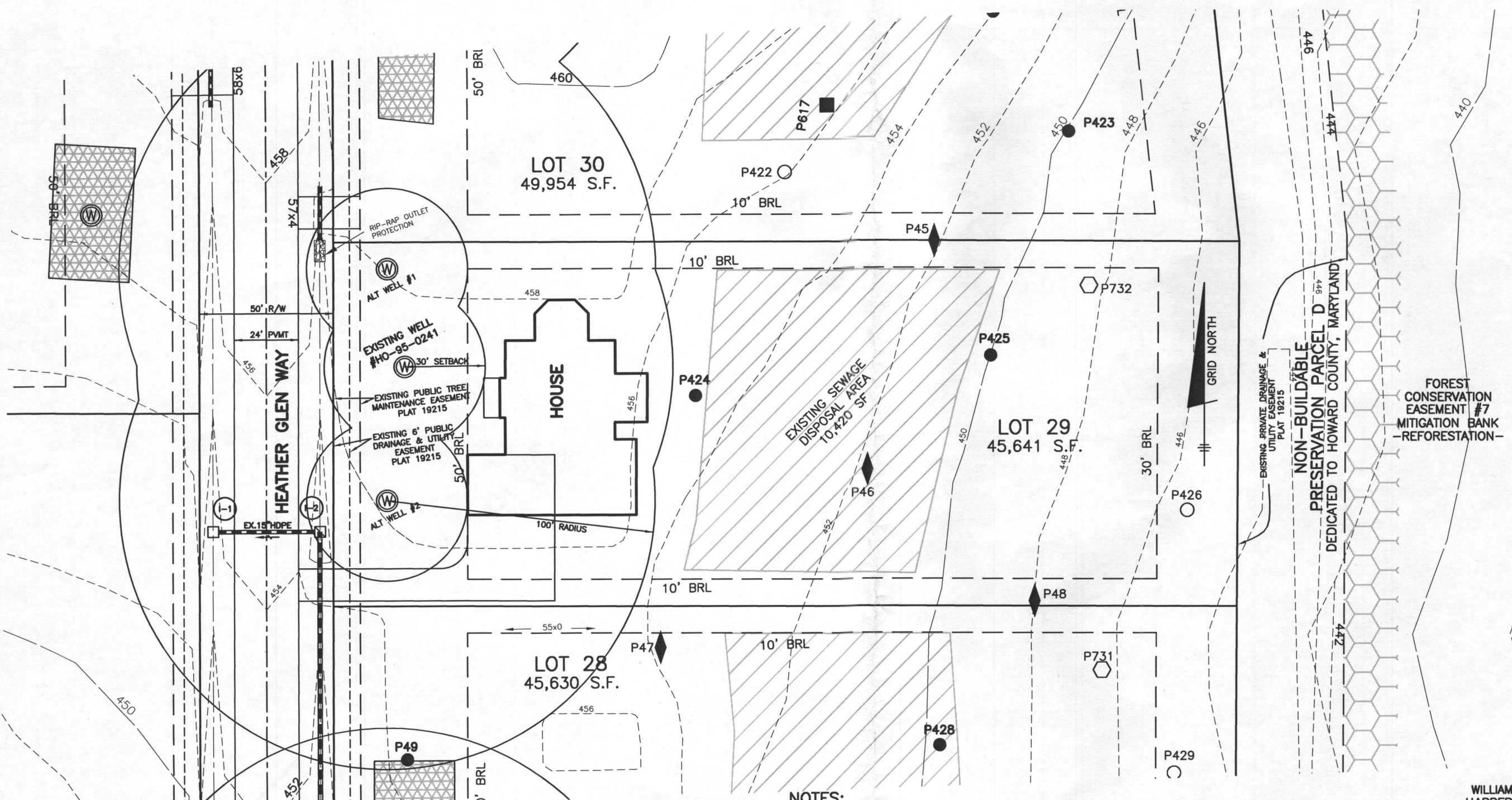
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

*Wilton for Monica Rossman 6/4/13*  
 HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE: 6/4/13

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*David Thompson* 6/4/2013  
 DAVID THOMPSON  
 PLAN PREPARER

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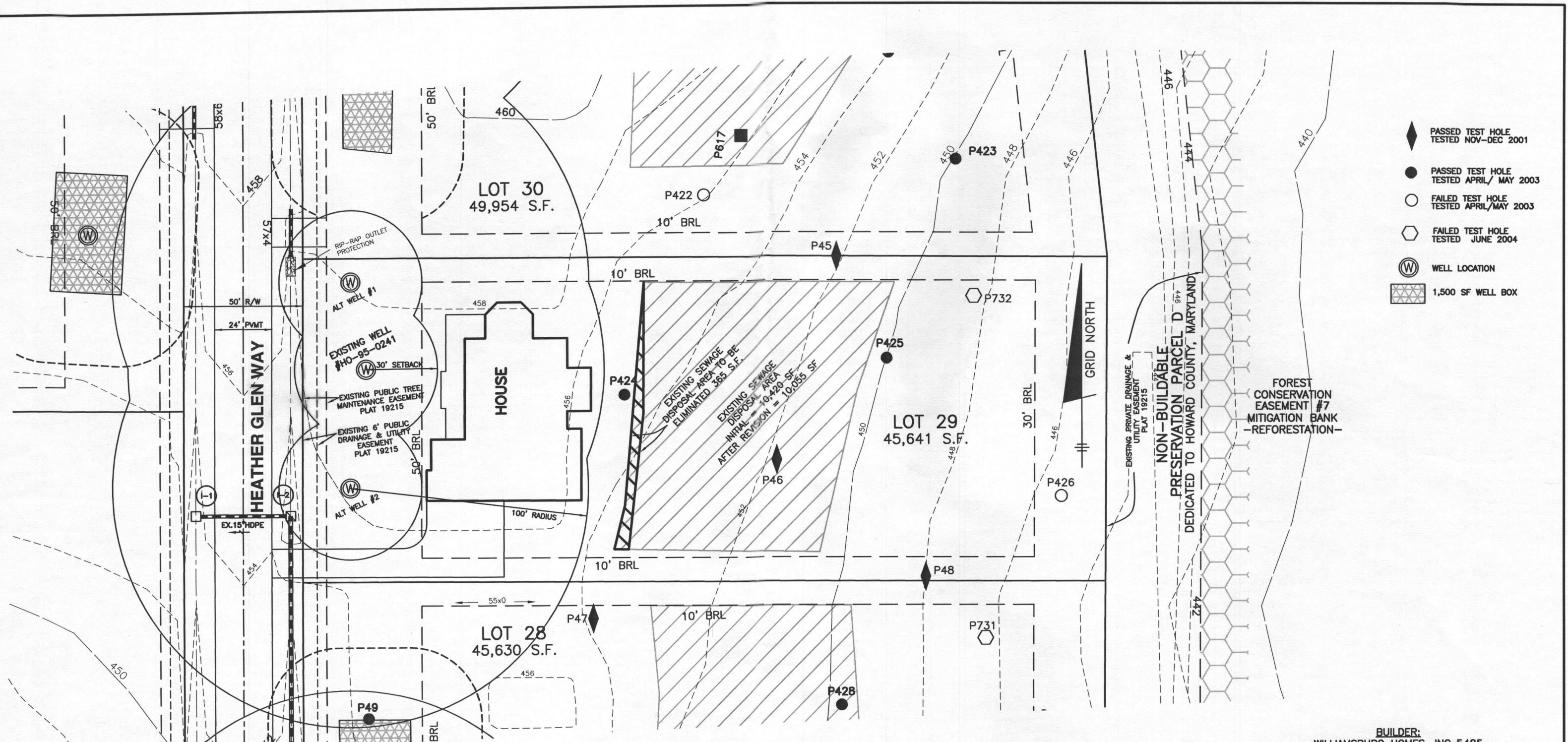
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

*Maureen Rossman* 6/4/13  
 HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE

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*David Thompson* 6/4/2013  
 DAVID THOMPSON  
 PLAN PREPARER



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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

*Maura Rossman* 7/23/13  
 HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE

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*David Thompson*  
 DAVID THOMPSON  
 PLAN PREPARER