

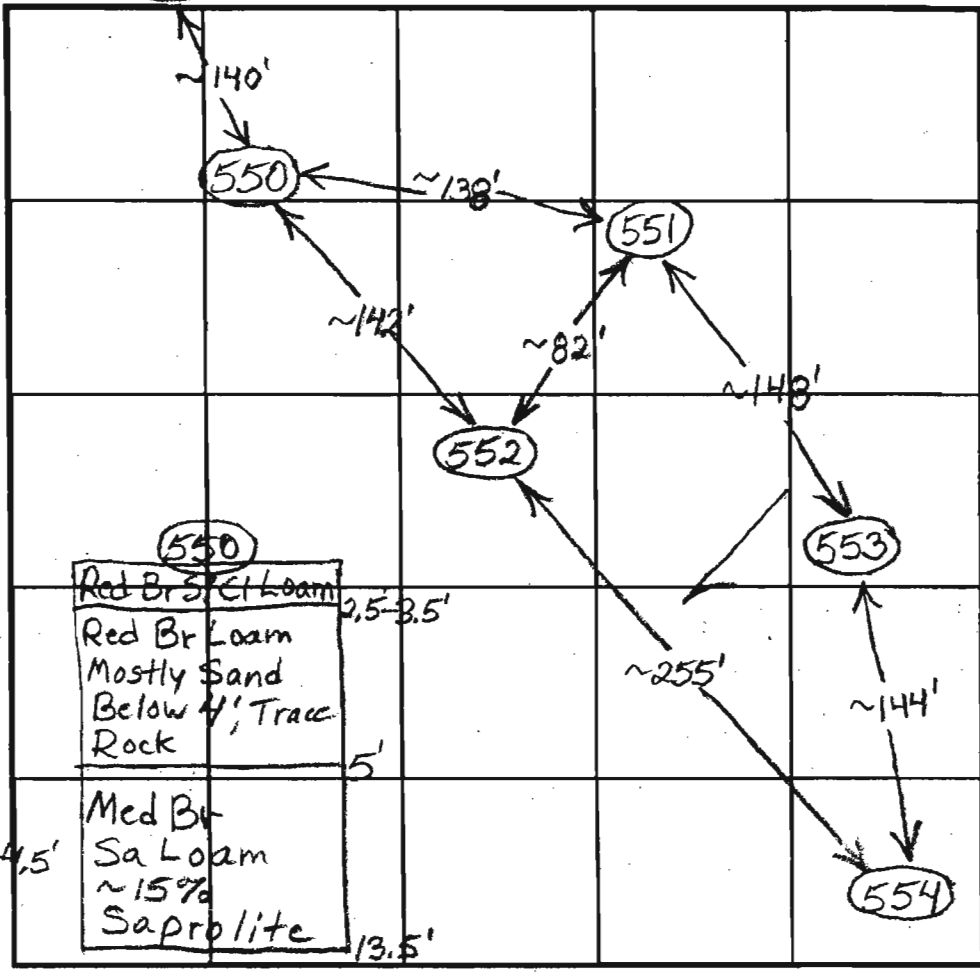
COUNTY #

SOIL PROFILE

0' (554)  
 Red Br Heavy Loam  
 Trace Rock  
 3.5' 4'  
 Red Br Si Cl Loam  
 ~10% Rock  
 6.5'  
 Or Br Si Cl Loam  
 Trace Rock  
 9.5'  
 Beige Sa Loam, ~15% Saprolite  
 11'  
 Caving Water  
 12'

(553)  
 Red Br Heavy Loam  
 3.5'-4.5'  
 Red Br Si Cl Loam  
 Trace Rock  
 4.5'-5.5'  
 Beige and Tan Sa Loam  
 ~15% Saprolite  
 Water  
 14.5'

(551)  
 Red Br Heavy Loam  
 ~10% Rock  
 4'  
 Red Br Heavy Loam, Si Loam and Beige Sa Loams  
 ~15% Rock  
 5.5'  
 Med Br Sa Loam  
 ~35% Rock  
 8'  
 ~50% Rock  
 13'



(550)  
 Red Br Si Cl Loam  
 3.5-3.5'  
 Red Br Loam  
 Mostly Sand  
 Below 4', Trace Rock  
 5'  
 Med Br Sa Loam  
 ~15% Saprolite  
 13.5'

SOIL PROFILE

0' (552)  
 Red Br Heavy Loam  
 3.5'-4.5'  
 Red Br Si Cl Loam  
 ~10% Rock  
 5.5'-6.5'  
 Tan Sa Loam  
 10-15% Saprolite  
 14'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

| DATE    | TEST NO. | DEPTH       | PRE-WET  |          | TEST - 1" DROP |          | TIME  |      |
|---------|----------|-------------|----------|----------|----------------|----------|-------|------|
|         |          |             | START    | STOP     | START          | STOP     |       |      |
| 1/22/04 | 554      | 7'9"/12'V   | 9:46     | ~1/4" in | 30 minutes     |          | Slow  | (F)  |
|         | 553      | 5.5'/14.5'V | 10:07    | 10:09:30 | 10:09:30       | 10:14:30 | 5     | O.K. |
|         |          | 7'          | 10:07    | 10:08:30 | 10:08:30       | 10:11    | 2 1/2 |      |
|         | 551      | 4.5'/13'V   | 10:28:30 | 10:30:15 | 10:30:15       | 10:33:15 | 3     | O.K. |
|         |          | 7'9"        | 10:28:30 | 10:30    | 10:30          | 10:32:30 | 2 1/2 |      |
|         | 552      | 6'4"/14'V   | 10:48    | 10:59    | 10:59          | 11:24    | 25    | O.K. |
|         |          | 6'9"        | 10:49    | 10:53    | 10:53          | 10:59    | 6     |      |
|         | 550      | 4.5'/13.5'V | 10:57:30 | 10:59:30 | 10:59:30       | 11:02    | 2 1/2 | O.K. |
|         |          | 7.5'        | 11:02    | 11:03:45 | 11:03:45       | 11:06:15 | 2 1/2 |      |

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 \_\_\_\_\_

COUNTY #

SOIL PROFILE

0' (127)  
Red Br  
Sacl Loam

4'-4.5'  
Light Br  
Sa Loam

~20%  
Rock  
Pockets  
of ~30%  
Rock  
Can't  
Distinguish  
Mottling But  
Some Near  
Bottom

14.5' (129)

Red Br  
Cl Loam

3'  
Red Or Br  
Sacl Loam

15.5'  
Or Br and  
Tan Sa  
Loam  
No Distinct  
Mottling

8'  
30-40%  
Rock

10'  
~50%  
Rock

14'

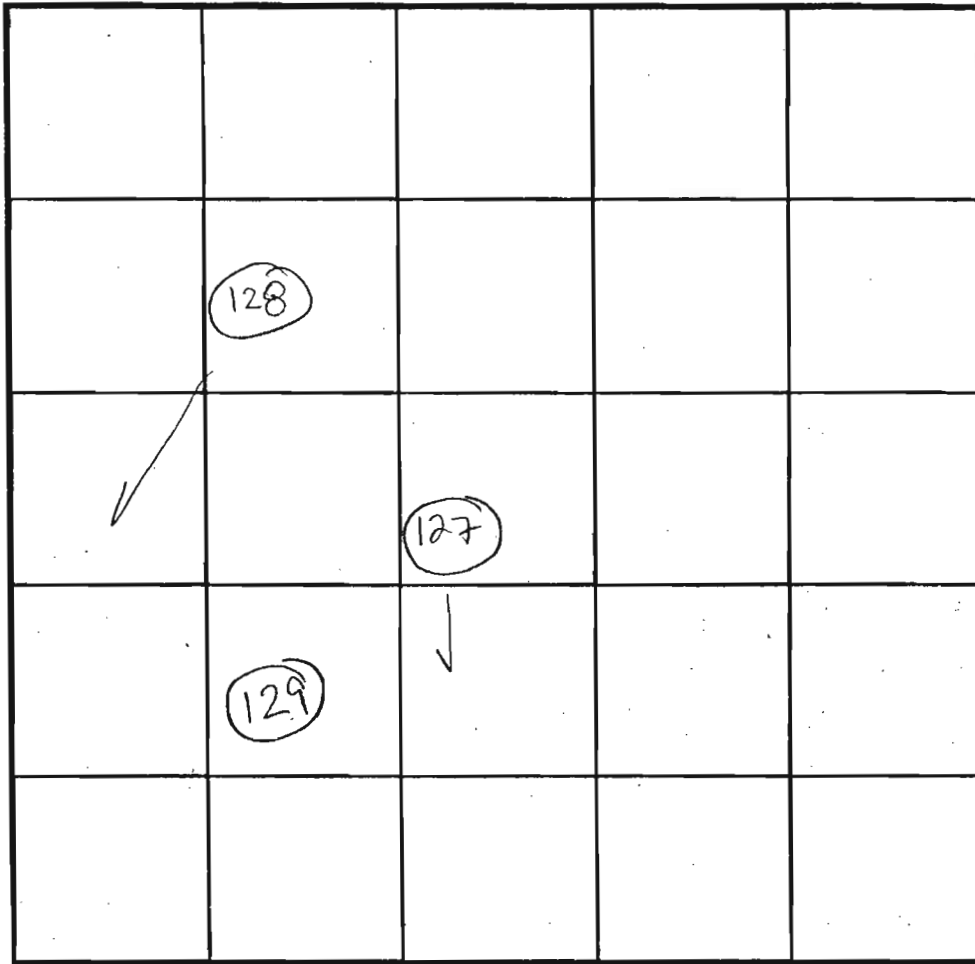
(128)  
Red Br Sacl  
Loam

15'-3'  
Or Br Si  
Loam and  
Red Br Si  
Cl Loam

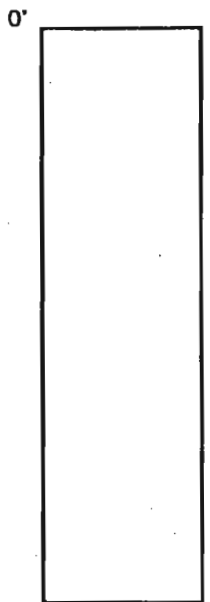
4'  
Or Br Sa  
Loam  
~10% Rock

9.5'  
Pockets of  
~40% Rock

14.5'



SOIL PROFILE



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    |        |
| 12/13/01 | 127      | 5.5'/14.5' | 2:00:30 | 2:01:15            | 2:01:15        | 2:02:15 | 1      |
|          |          | Repair     | 2:10    | 2:11:15            | 2:11:15        | 2:13:10 | ~2     |
|          | 129      | 5.5'/14'   | 2:14:45 | 2:15:10            | 2:15:10        | 2:15:50 | 40 sec |
|          |          | Repair     | 2:19:50 | 2:20:30            | 2:20:30        | 2:21:30 | 1      |
|          |          | Repair     | 2:24:10 | 2:25:10            | 2:25:10        | 2:26:40 | 1 1/2  |
|          | 128      | 5'/14.5'   | 2:28:50 | 2:29:35            | 2:29:35        | 2:31:05 | 1 1/2  |
|          |          |            | O.K.    | For Shallow System |                |         | ←      |
|          |          |            |         |                    |                |         |        |
|          |          |            |         |                    |                |         |        |
|          |          |            |         |                    |                |         |        |

O.K.

(F)

REMARKS HOLES DUG PER PLAN, 129 Failed-Perc Rate Too Fast Shallow

TYPE OF SOIL Some holes ≥ 8' has ~50% rock frags

TESTED BY BRIAN BAKER ALSO PRESENT HATFIELDS

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH

COUNTY #

SOIL PROFILE

0' (487)  
 Red Br Loam 3'  
 Red Br Si Loam and Or Br Sa Loam 4'  
 Or Br Sa Loam ~20% Rock 6'-8'  
 Tan Sa Loam ~20% Rock and Saprolite 13'

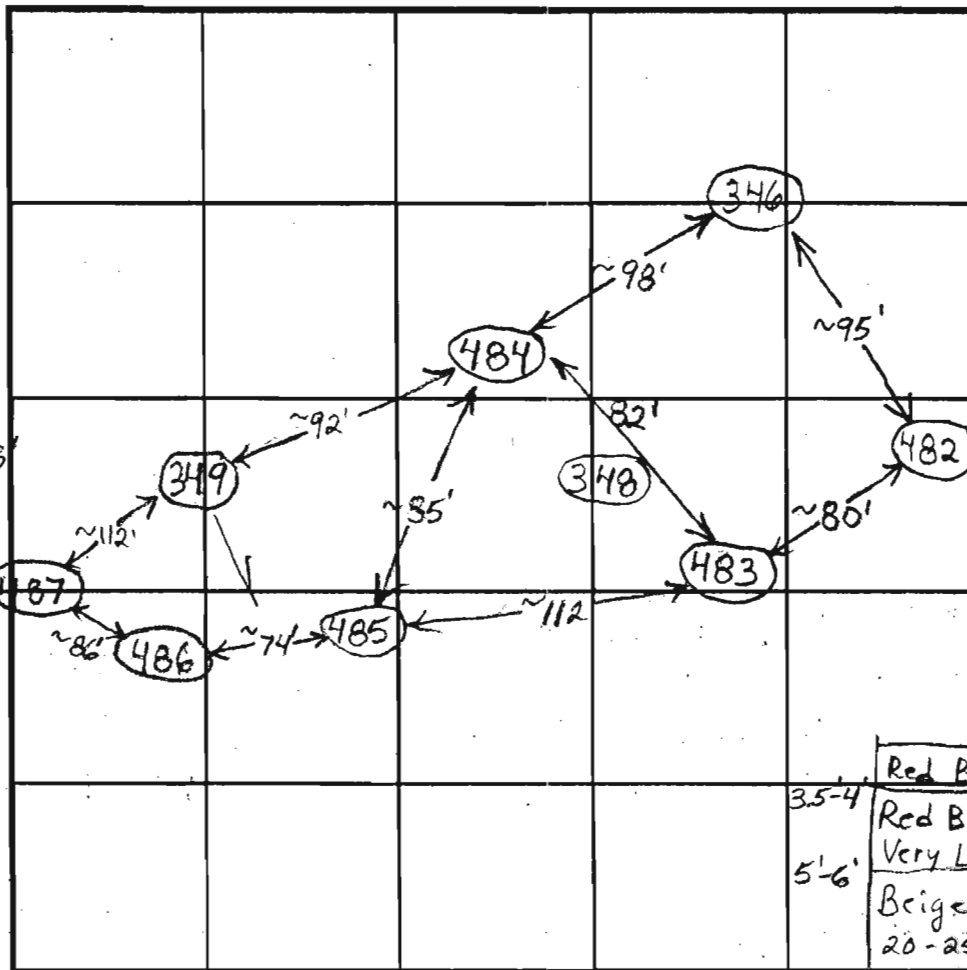
(349)

Red Br Loam 3.5'  
 Red Br Si Loam and Or Br Sa Loam ~10% Rock 4'-6'

Beige Sa Loam 15-20% Rock and Saprolite 13'

(485)

Red Br Loam 4'  
 Red Br Si Loam and Or Br Sa Loam Very Little Rock 6'  
 Beige Sa Loam ~25% Rock and Saprolite Hard Bottom 12'



SOIL PROFILE

0' (484)  
 Red Br Loam 4'  
 Red Br and Or Br Si Loams 5'  
 Or Br Sa Loam Very Little Rock 8'-9'  
 Light Br Sa Loam ~20% Saprolite, Very Little Rock 13.5'

(348)

Red Br Loam 3.5-4'  
 Red Br Si Loam Very Little Rock 5'-6'  
 Beige Sa Loam 20-25% Saprolite Wet Near Bottom 13.5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

| DATE    | TEST NO. | DEPTH                                   | PRE-WET  |          | TEST - 1" DROP |          | TIME   |      |  |
|---------|----------|---|----------|----------|----------------|----------|--------|------|--|
|         |          |   | START    | STOP     | START          | STOP     |        |      |  |
| 4/29/03 | 487      | 4.5' / 13' V                            | 11:46    | 11:47:15 | 11:47:15       | 11:48:40 | ~1 1/2 | O.K. |  |
|         |          | 7.5'                                    | 11:47    | 11:50:30 | 11:50:30       | 11:56:15 | ~6     |      |  |
|         | 349      | 4.5' / 13' V                            | 12:18    | 12:24    | 12:24          | 12:34    | 10     | O.K. |  |
|         |          | 7'                                      | 12:19    | 12:24    | 12:24          | 12:31:30 | 7 1/2  |      |  |
|         | 486      | Covered By Contractor - Shallow Bedrock |          |          |                |          |        | (F)  |  |
|         | 485      | 4'3" / 12' V                            | 12:42    | 12:52:15 | 12:52:15       | 1:22     | ~30    | O.K. |  |
|         |          | 6'8"                                    | 12:42:30 | 12:52    | 12:52          | 1:05     | 13     |      |  |
|         | 484      | 4'3" / 13.5' V                          | 12:57:30 | 1:10:30  | 1:10:30        | 1:28     | 17 1/2 |      |  |
|         |          | 7'2"                                    | 12:57:30 | 1:03     | 1:03           | 1:13:30  | 10 1/2 |      |  |
|         | 348      | 5' / 13.5' V                            | 1:20     | 1:23     | 1:23           | 1:28     | 5      | O.K. |  |
|         |          | 7'                                      | 1:20:30  | 1:23     | 1:23           | 1:26:30  | 3 1/2  |      |  |

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 \_\_\_\_\_  
 INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

COUNTY #

SOIL PROFILE

(488)

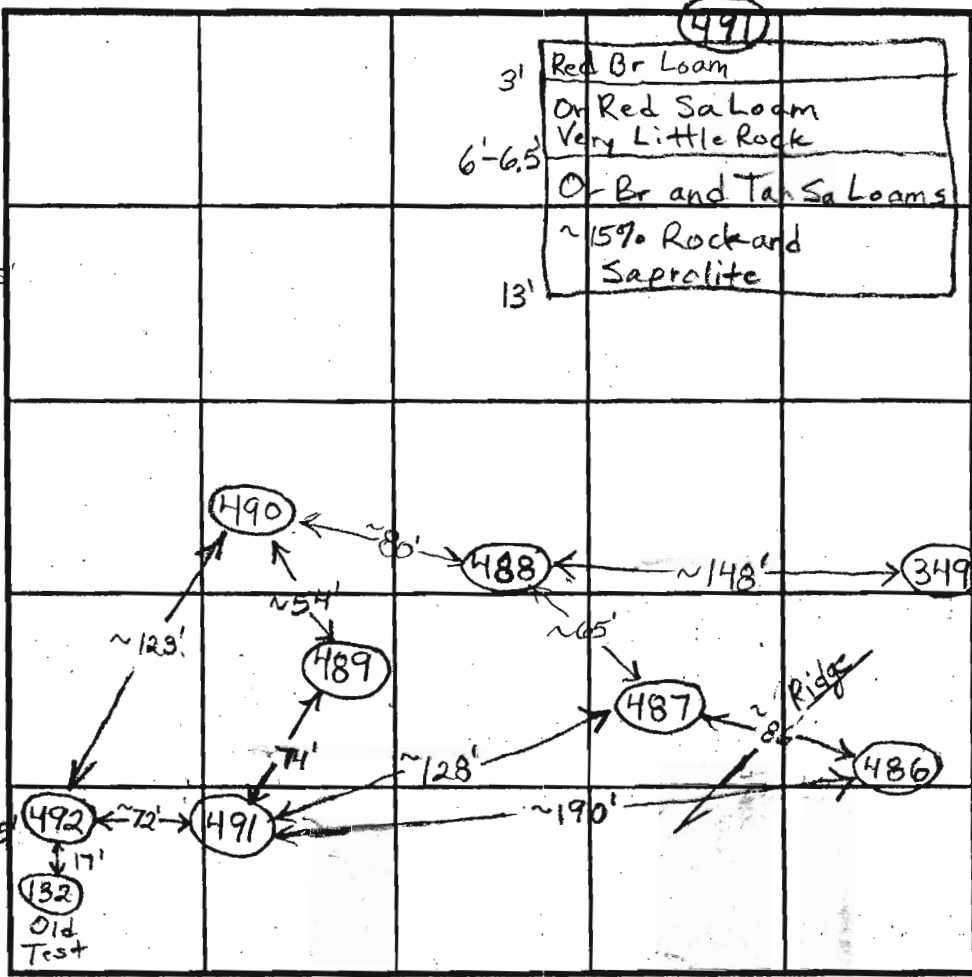
0' Red Br Loam  
 2'-3' Or Br Loam  
 4'-4.5' And Sa Loam  
 Beige Sa Loam  
 ~15% Rock and Saprolite  
 6' Large Pocket of 75% Rock Hard Bottom  
 7.5'

(489)

3'-3.5' Red Br Loam  
 Red Br and Or Br Loams  
 Mixture of Si, Sand and Loam  
 15-20% Rock  
 5'-6.5' Red Br Sa Loam  
 15-20% Rock and Saprolite  
 11.5' Pocket of >50% Rock Hard Bottom  
 12.5'

(490)

Red Br Loam and Heavy Loam  
 4.5'-5' Or Br Si Loam and Sa Loam  
 15-20% Rock  
 10' Med Br Sa Loam  
 15-20% Rock and Saprolite  
 13'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

(492)

0' Red Br Heavy Si Loam  
 5.5'-6' Or Br Si Loam  
 Very Little Rock  
 7.5' Or Br Si Loam and Sa Loams  
 ~10% Rock  
 11' Med Br Sa Loam  
 ~15% Rock and Saprolite  
 13.5'

| DATE    | TEST NO. | DEPTH          | PRE-WET  |          | TEST - 1" DROP |               | TIME          |
|---------|----------|----------------|----------|----------|----------------|---------------|---------------|
|         |          |                | START    | STOP     | START          | STOP          |               |
| 4/29/03 | 488      | 7.5' V         |          |          |                |               | (F)           |
|         | 489      | 4'8" / 12.5' V | 10:25    | 10:32    | 10:32          | 10:44         | 12 (Marginal) |
|         |          | 7'             | 10:24:45 | ?        | ?              | 10:26:45      | 2 Total       |
|         | Repair   | 7'             | 10:29    | 10:30    | 10:30          | 10:31:45      | ~2            |
|         | 490      | 5'2" / 13' V   | 10:47:30 | 10:52    | 10:52          | 10:59         | 7 O.K.        |
|         |          | 7'             | 10:47    | 10:48:05 | 10:48:05       | 10:50:30      | 2 1/2         |
|         | 492      | 5' / 13.5' V   | 11:03    | 11:31    | Pulled         | Probably slow | 5 Slow O.K.   |
|         |          | 7'             | 11:03:30 | 11:15:15 | 11:15:15       | 11:39         | ~24           |
|         | 491      | 4'4" / 13' V   | 11:27:30 | 11:30:30 | 11:30:30       | 11:35         | 4 1/2 O.K.    |
|         |          | 6.5'           | 11:28    | 11:30    | 11:30          | 11:34         | 4             |

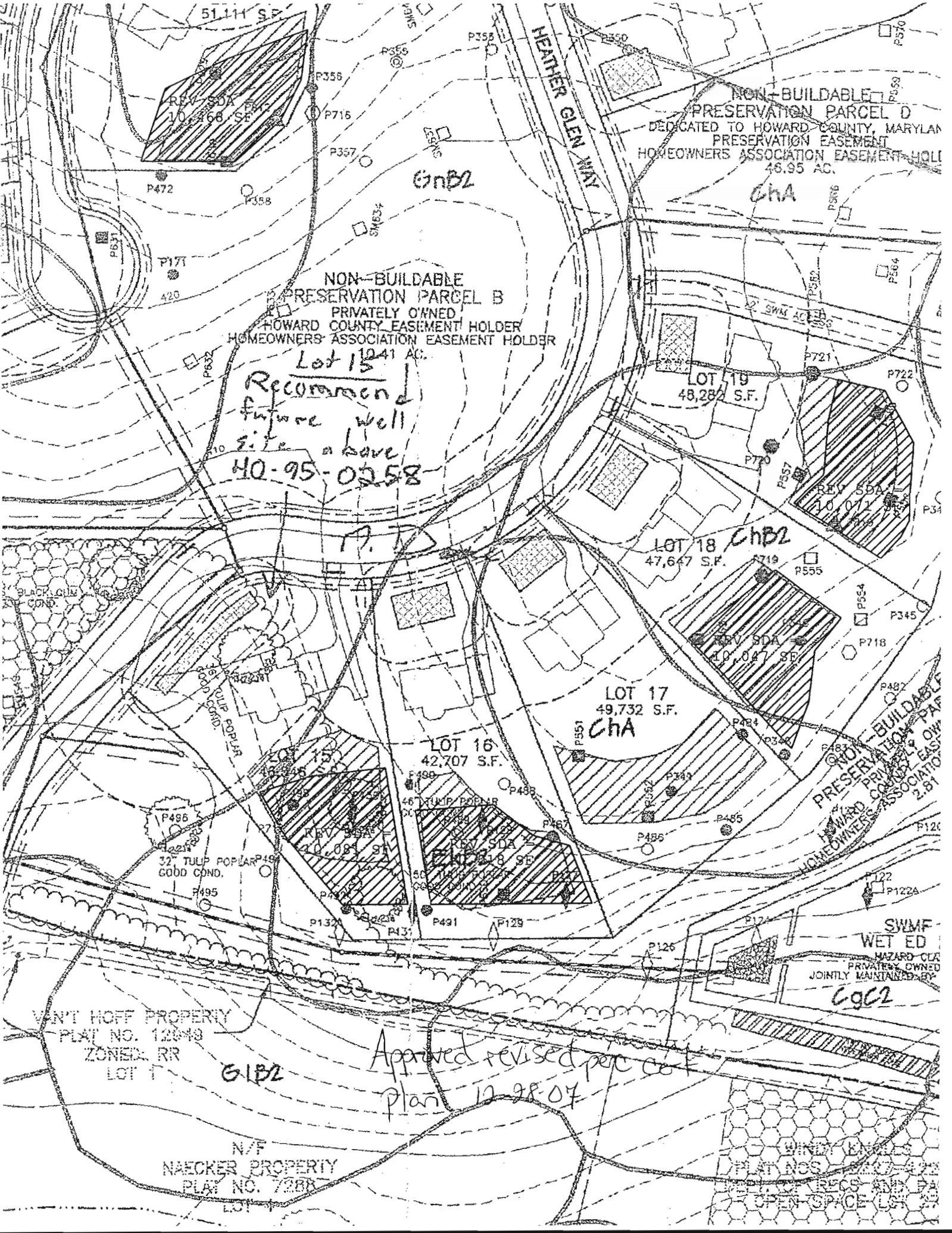
REMARKS 489 is O.K. for a shallow system, bottom at 5'

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 \_\_\_\_\_



NON-BUILDABLE  
PRESERVATION PARCEL B  
PRIVATELY OWNED  
HOWARD COUNTY EASEMENT HOLDER  
HOMEOWNERS ASSOCIATION EASEMENT HOLDER  
10.41 AC.

*Lot 15*  
*Recommend*  
*future well*  
*site above*  
*HQ-95-0258*

NON-BUILDABLE  
PRESERVATION PARCEL D  
DEDICATED TO HOWARD COUNTY, MARYLAND  
PRESERVATION EASEMENT  
HOMEOWNERS ASSOCIATION EASEMENT HOLL  
46.95 AC.

LOT 18 CHB2  
47,647 S.F.

LOT 17  
49,732 S.F.  
CHA

LOT 16  
42,707 S.F.

LOT 19  
48,282 S.F.

NON-BUILDABLE  
PRESERVATION PARCEL E  
PRIVATELY OWNED  
HOWARD COUNTY EASEMENT HOLDER  
HOMEOWNERS ASSOCIATION EASEMENT HOLL  
2.81 AC.

SWMF  
WET ED  
HAZARD CLR  
PRIVATELY OWNED  
JOINTLY MAINTAINED BY  
G9C2

VANT HOFF PROPERTY  
PLAT NO. 12049  
ZONED: RR  
LOT 1

N/F  
NAECKER PROPERTY  
PLAT NO. 7288

*Approved revised per cdt*  
*Plan 12 98 07*

WET ED  
PLAT NOS  
OPEN SPACE

N/E  
MARRFIELD  
23/559  
D: R/RECO

RELEASEMENT  
31-1-14-1

MGC3

FENCE LINE

GPB2

CHA

GNB2

CHA

GNB2

P539

P536

P537

P538

P535

LOT 13  
48,763 S.F.

LOT 12  
50,835 S.F.

EKB2

EKA

Revised  
PC  
02/07

P631

P171

P472

P630

P358

P625

P812

P716

P356

P355

SM634

GNB2

Recommended future  
will site above  
HO-95-0258

Lot 15  
10.41 AC.

NON-BUILDABLE  
PRESERVATION PARCEL B  
PRIVATELY OWNED  
HOWARD COUNTY EASEMENT HOLDER  
HOMEOWNERS ASSOCIATION EASEMENT HOLDER

32" TULIP POPULAR  
GOOD COND.

36" TULIP POPULAR  
GOOD COND.

LOT 15  
42,707 S.F.

LOT 16  
49,732 S.F.

LOT 17  
49,732 S.F.

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LOT 14  
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LOT 15  
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LOT 203  
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LOT 204  
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LOT 228  
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LOT 229  
49,732 S.F.

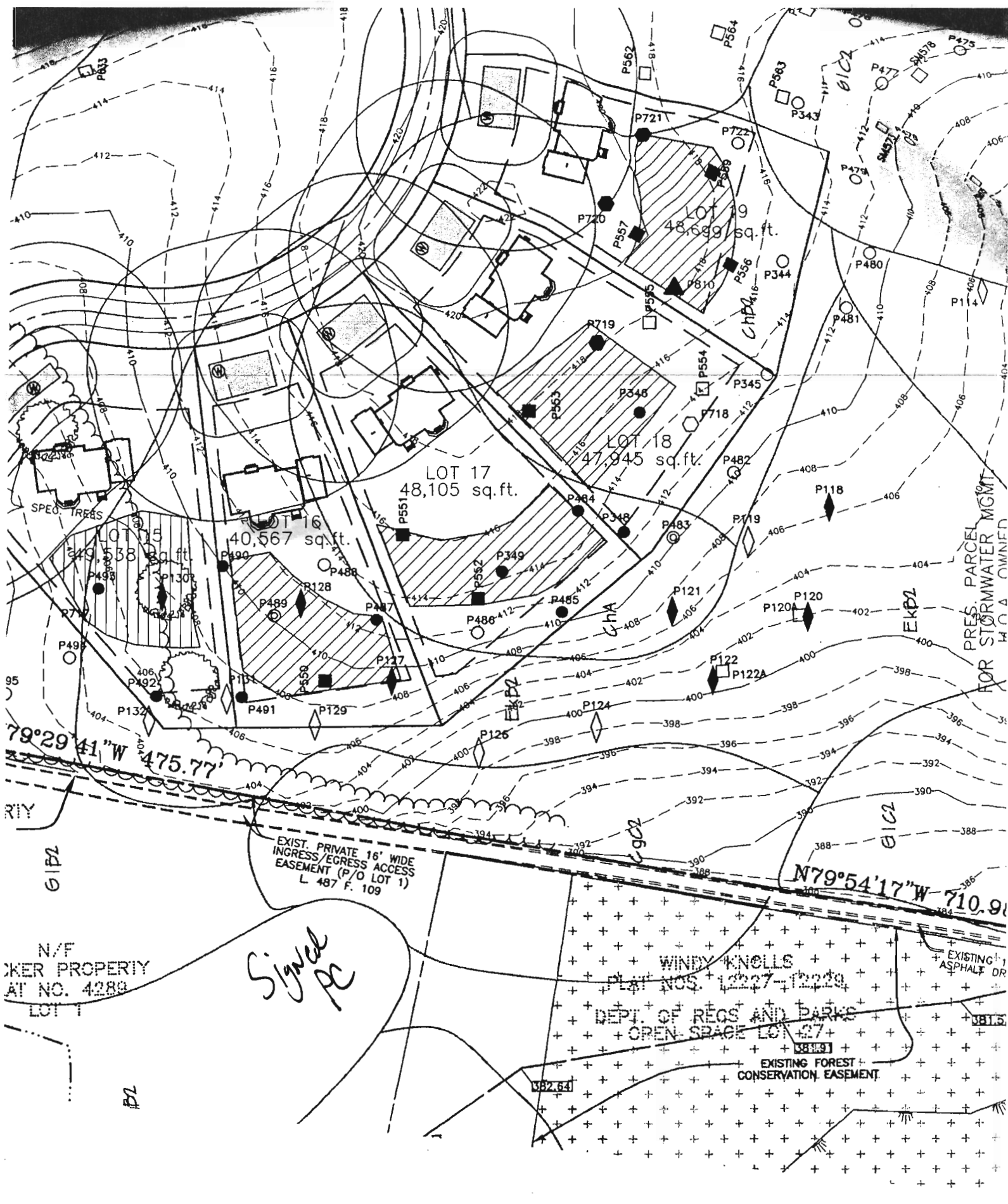
LOT 230  
49,732 S.F.

LOT 231  
49,732 S.F.

LOT 232  
49,732 S.F.

LOT 233  
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LOT 234  
49,732 S.F.

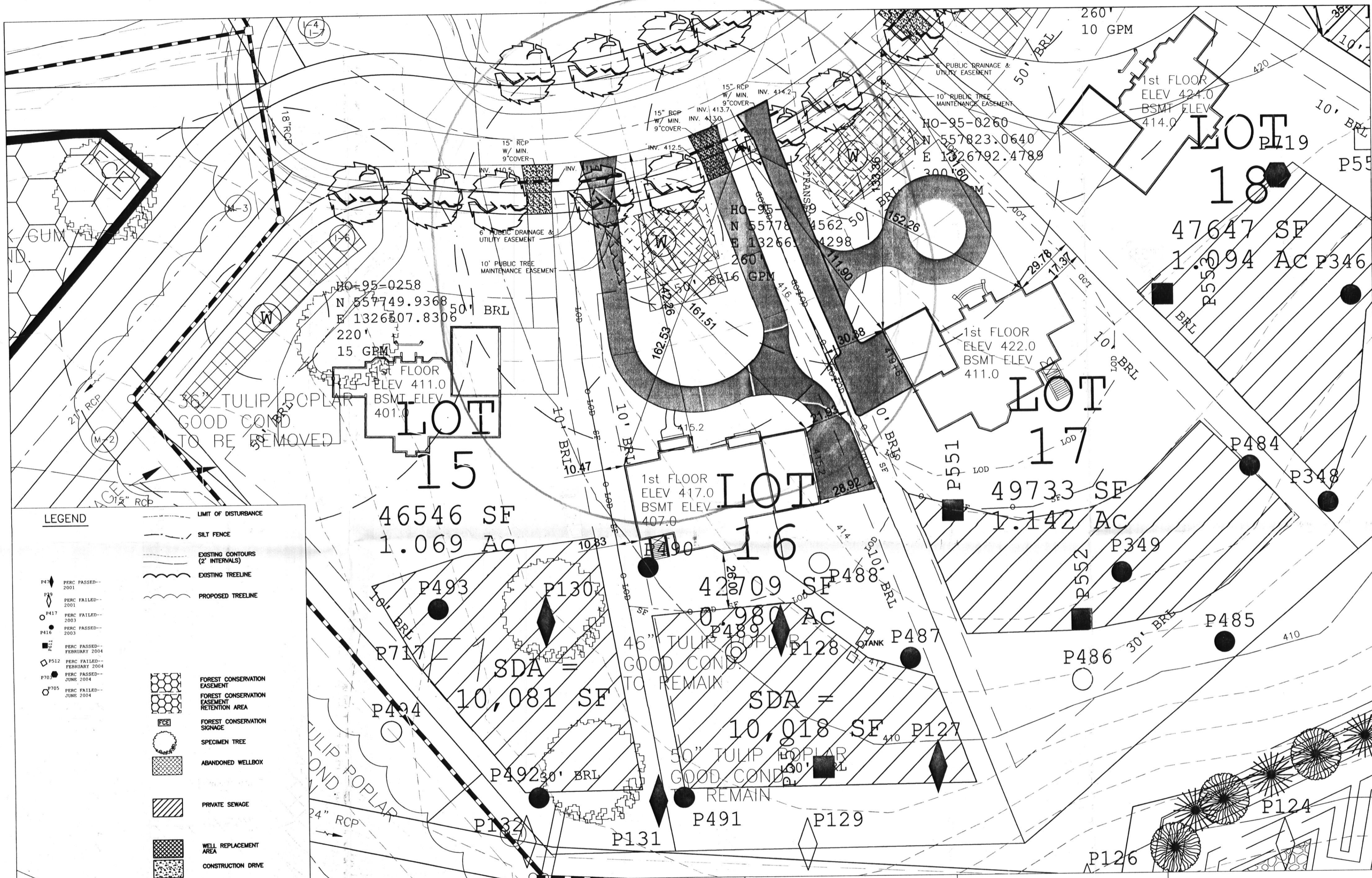


N/F  
 JCKER PROPERTY  
 AT NO. 4289  
 LOT 1

*Signed PC*

WINDY KNOLLS  
 PLAN NO. 1227-1229  
 DEPT. OF RECS AND PARKS  
 OPEN SPACE LOT 27  
 38391  
 EXISTING FOREST  
 CONSERVATION EASEMENT

PLAN VIEW



**LEGEND**

|  |                             |  |   |
|--|-----------------------------|--|---|
|  | PERC PASSED - 2001          |  | LIMIT OF DISTURBANCE                        |
|  | PERC FAILED - 2001          |  | SILT FENCE                                  |
|  | PERC PASSED - 2003          |  | EXISTING CONTOURS (2' INTERVALS)            |
|  | PERC PASSED - 2004          |  | EXISTING TREELINE                           |
|  | PERC PASSED - FEBRUARY 2004 |  | PROPOSED TREELINE                           |
|  | PERC PASSED - JUNE 2004     |  | FOREST CONSERVATION EASEMENT                |
|  | PERC PASSED - JUNE 2004     |  | FOREST CONSERVATION EASEMENT RETENTION AREA |
|  | PERC PASSED - JUNE 2004     |  | FOREST CONSERVATION SIGNAGE                 |
|  | PERC PASSED - JUNE 2004     |  | SPECIMEN TREE                               |
|  | PERC PASSED - JUNE 2004     |  | ABANDONED WELLBOX                           |
|  | PERC PASSED - JUNE 2004     |  | PRIVATE SEWAGE                              |
|  | PERC PASSED - JUNE 2004     |  | WELL REPLACEMENT AREA                       |
|  | PERC PASSED - JUNE 2004     |  | CONSTRUCTION DRIVE                          |

**GENERAL NOTES:**

- THIS AREA DESIGNATES A PRIVATE SEWAGE AREA 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. THESE 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.
- THIS AREA IS ABANDONED AS PER PREVIOUSLY REVISED AND APPROVED PERC CERT. PLAN.
- THIS AREA IDENTIFIES WELL REPLACEMENT AREA.
- TOPOGRAPHY SHOWN IS TWO-FOOT CONTOUR INTERVALS AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- 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 REASONABLE EFFORTS.
- THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT # 19214 ET. SEQ. REFER TO PLAT FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS, ANY RESTRICTIONS, AND PROVISIONS.
- THE EXISTING WELLS SHOWN ON THIS PLAN HAVE BEEN FIELD LOCATED BY A PROFESSIONAL LAND SURVEYOR AND ARE ACCURATELY SHOWN.
- 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 # 16
- ALL DRIVEWAY CULVERTS ARE TO BE 15" RCP OR HDPE WITH MINIMUM 9" COVER
- ANY WELL DRILLED WITHIN 10' OF DRIVEWAY TO BE PROTECTED WITH TWO BOLLARDS.
- PAVING SPECIFICATIONS: 2" ASPHALT OVER 4" CR-6 OR 2.5" ASPHALT OVER 1.5" OVERLAY

**PROPOSED ELEVATIONS:**

|                               |       |                            |       |
|-------------------------------|-------|----------------------------|-------|
| TOP OF BASEMENT SLAB:         | 407.0 | GRADE AT HOUSE INVERT:     | 415.0 |
| TOP OF FOUNDATION WALL:       | 415.7 | GRADE AT SEPTIC TANK:      | 412.7 |
| TOP OF FIRST SUBFLOOR:        | 417.0 | GRADE AT DISTRIBUTION BOX: | 412.0 |
|                               |       | GRADE AT TRENCHES:         | 411.0 |
| INVERT OUT OF HOUSE:          | 412.0 |                            |       |
| INVERT INTO TANK:             | 410.0 |                            |       |
| INVERT OUT OF TANK:           | 409.5 |                            |       |
| INVERT INTO DISTRIBUTION BOX: | 409.0 |                            |       |

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

*Peter Balenon*  
Peter Balenon, M.D., M.P.H.  
HOWARD COUNTY HEALTH OFFICER

11/16/2011  
DATE

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

*Dale Thorpison*  
Dale Thorpison

26/11/2011  
DATE

**SEPTIC DESIGN PARAMETERS:**

|                    |              |
|--------------------|--------------|
| 1st Floor Sq. Ft.  | 2852 sq. ft. |
| 2nd Floor Sq. Ft.  | 2974 sq. ft. |
| Basement Sq. Ft.   | 2852 sq. ft. |
| Number of Bedrooms | 4            |

**TAGGED WELL DATA**

|             |              |
|-------------|--------------|
| TAG NUMBER: | HO-95-0259   |
| NORTHING:   | 557783.4562  |
| EASTING:    | 1328699.4298 |
| WELL YIELD: | 6 GPM        |
| WELL DEPTH: | 260'         |

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

**SCALE:** 1:30  
**DATE:** 10/25/11

**PROJECT NAME:** WANG Residence  
PC-16  
PRESERVE @ CLARKSVILLE  
CLARKSVILLE  
HOWARD COUNTY  
MARYLAND

**TITLE:** PLOT PLAN LOT #16  
6283 Heather Glen Way  
Clarksville, Maryland 21029

**PURPOSE:** CONSTRUCTION OF NEW SINGLE FAMILY DETACHED DWELLING AND WELL BOX RE-CERTIFICATION