

7/12/00 12-1

PERMIT
SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
410-313-2640

P 513668
A 57326
ISSUE DATE 7/8/00
APPROVAL DATE 7/12/00

INDEXED

J. Joseph Gartland IS PERMITTED TO INSTALL x ALTER

ADDRESS 1835 West Old Liberty Road Westminster, 21157 PHONE 410-875-2400

SUBDIVISION Laniado Property LOT NUMBER 6 ADDRESS 17025 Frederick Road

PROPERTY OWNER Carrigan Homes, Inc. PROPERTY OWNER'S ADDRESS 9812 Caitlins Court

SEPTIC TANK CAPACITY 1250 GALLONS Ellicott City, MD 21042

PUMP CHAMBER CAPACITY N/A GALLONS

NUMBER OF BEDROOMS 4 *** TOP SEAMED SEPTIC TANK REQUIRED ***

SQUARE FEET PER BEDROOM 210

LINEAR FEET OF TRENCH REQUIRED 280

TRENCHES: Trenches to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 4.5 feet below original grade. 1.5 feet of stone below distribution box.

LOCATION: Begin trenches ~~160~~ ¹¹⁵ feet off the rear lot line and 80 feet off the left lot line as seen when facing the lot from Route 144. Run trenches on contour in both directions.

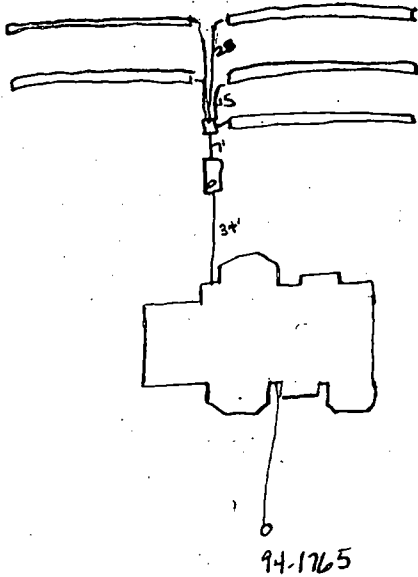
PLANS APPROVED Amy McMillen OK SRK 5/16/00 DATE 4-17-2000

- PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: TOP OF SEPTIC TANKS ARE TO BE NO DEEPER THAN 3.0 FEET BELOW FINISH GRADE
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS, 90° ELBOWS ARE NOT ACCEPTABLE
- NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX, DRAINFIELDS) TO BE 100 FEET FROM ANY WATER WELL UNLESS OTHERWISE SPECIFICALLY AUTHORIZED
- NOTE: NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH UNLESS SPECIFICALLY AUTHORIZED
- NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES
- NOTE: IF PUMPED SEPTIC SYSTEM REQUIRED, (1) SEPTIC PUMP DETAIL TO BE PROVIDED BY INSTALLER PRIOR TO ISSUANCE OF SEPTIC PERMIT (2) PUMP PERFORMANCE TEST IS NECESSARY PRIOR TO HEALTH DEPARTMENT APPROVAL OF SEPTIC PERMIT

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

A 57326

NOT TO SCALE



TRENCH DATA

TRENCH WIDTH 3.0
TRENCH INLET DEPTH 3.0
TRENCH BOTTOM DEPTH 4.5
DEPTH OF STONE 1.5
NUMBER OF TRENCHES 5
TOTAL TRENCH LENGTH 210
ABSORBENT AREA 280
DISTRIBUTION BOX LEVEL OK
BAFFLE IN DISTRIBUTION BOX

SEPTIC TANK DATA

SEPTIC TANK 1250 GALLONS
MANHOLE RISER N/A
6 INCH INSPECTION PORT

PUMP CHAMBER DATA

PUMP CHAMBER GALLONS _____
MANHOLE RISER N/A
ALARM _____
PUMP PERFORMANCE TEST _____

PRE-CONSTRUCTION INSPECTION: _____

INSPECTION COMMENTS: 7/12/00 OK to cover all work

INSPECTOR 7/12/00 DATE SYSTEM APPROVED A McMill

APPLICATION

11/7/96
PM

PERCOLATION TESTING

A 57326

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

PREVIOUS OK
PREVIOUS SUBDIVISION PROPOSAL
UNDER REVIEW
THIS IS FOR
LOT IN A CHANGED
LOCATION. (CW)

DISTRICT _____

DATE 10-15-96

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER GEORGE & THERESA C. LANIADO

ADDRESS 17035 FREDERICK ROAD, MT AIRY MD 21771 PHONE _____

AGENT OR PROSPECTIVE BUYER C & M PARTNERSHIP

ADDRESS 1750 DAISY RD., WOODBINE MD 21797 PHONE (410) 442-1645

PROPERTY LOCATION:

SUBDIVISION LANIADO PROPERTY LOT NO. 6

ROAD AND DESCRIPTION OLD FREDERICK ROAD OPPOSITE BEETZ RD.

TAX MAP _____ PARCEL # _____

SIZE OF LOT ONE ACRE ± TYPE BLDG. SINGLE FAMILY DWELLING
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

Donald J. Carter
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR Serial # B00123385 DATE _____

DISAPPROVED BY _____ FOR SFD - 4 BRMS DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

57326

COUNTY #

SOIL PROFILE

①

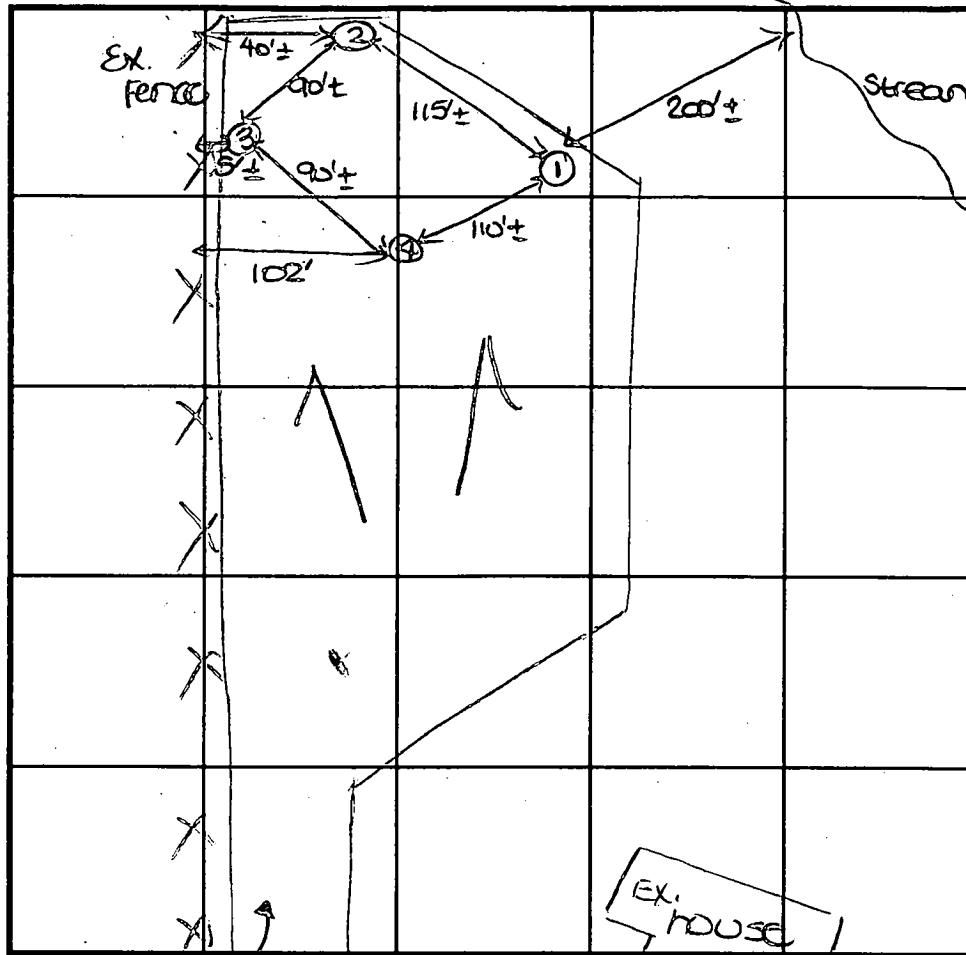
0' topsoil
 1' red org brd tm
 3.5' 4' lt pk br si sa lm
 w/shale frags
 20% frags
 10' REVEAL

②

0' topsoil
 1' org br d lm
 3.5' lt org br to lt pk si sa lm
 10-15% shale frags

④

0' topsoil
 1' org red brd lm
 3.5' 11' lt org red br to lt br si sa lm
 20% shale frags



SOIL PROFILE

③

0' topsoil
 1' org red brd lm
 3.5' 4' lt org br si sa lm
 9' 12' 20%+ shale frags

INDICATE NORTH - NAME ADJOINING ROADWAY AS-BASE LINE!

(long pipeline) Frederick Road

| DATE | TEST NO. | DEPTH | PRE-WET | | TEST - 1" DROP | | TIME | |
|---------|----------|--------|-------------------------|--------------------|--------------------|-------|------|--|
| | | | START | STOP | START | STOP | | |
| 11-7-96 | 1 | 4.0'S | 11:22 ₃ | 11:33 | 11:33 | 11:48 | 15 | |
| | | 10.0'D | Visual OK - see profile | | | | | |
| | 2 | 4.0'S | 11:27 ₃ | 11:31 ₃ | 11:31 ₃ | 11:44 | 13 | |
| | | 11.0'D | Visual OK - see profile | | | | | |
| | 4 | 3'8"S | 11:50 | 11:51 ₃ | 11:51 ₃ | 11:54 | 3 | |
| | | 11.0'D | Visual OK - see profile | | | | | |
| | 3 | 12.0'D | Visual OK - see profile | | | | | |
| | | | | | | | | |
| | | | | | | | | |

REMARKS lot moderately wooded

TYPE OF SOIL

TESTED BY D. Soe

ALSO PRESENT R. Carter, T. Marshall

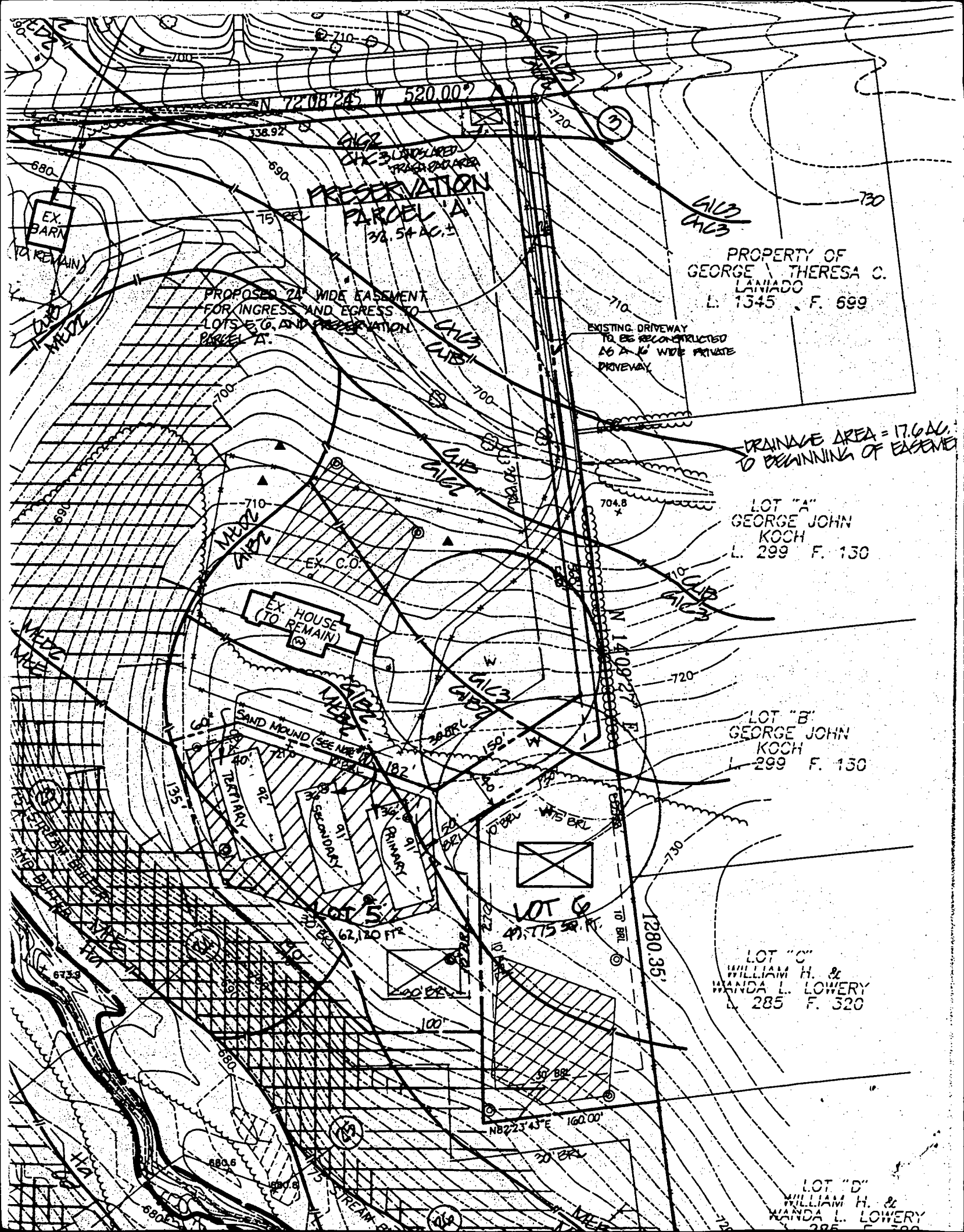
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 11

TRENCH WIDTH 3

INLET DEPTH 2.5'

MAXIMUM BOTTOM DEPTH 4.5'

SQ. FT./BEDROOM 210



N 72°08'24.5" W 520.00'

PRESERVATION
PARCEL "A"
32.54 AC.

PROPERTY OF
GEORGE & THERESA C.
LANIADO
L. 1345 F. 699

PROPOSED 24' WIDE EASEMENT
FOR INGRESS AND EGRESS TO
LOTS B, C, AND PRESERVATION
PARCEL "A"

EXISTING DRIVEWAY
TO BE RECONSTRUCTED
AS A 16' WIDE PRIVATE
DRIVEWAY

DRAINAGE AREA = 17.6 AC.
TO BEGINNING OF EASEMENT

LOT "A"
GEORGE JOHN
KOCH
L. 299 F. 130

LOT "B"
GEORGE JOHN
KOCH
L. 299 F. 130

LOT "C"
WILLIAM H. &
WANDA L. LOWERY
L. 285 F. 320

LOT "D"
WILLIAM H. &
WANDA L. LOWERY
L. 285 F. 320

EX. BARN
(TO REMAIN)

EX. HOUSE
(TO REMAIN)

SAND MOUND (SEE NOTE)

LOT 5
62,120 FT²

LOT 6
49,775 FT²

680

338.92

15

700

710

700

720

730

680

680.6

680.8

720

730

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710

700

704.8

720

730

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CHARLOTTE BAUBRAU L. 138 F. 599

LARRY W. & CHARON A. AMBERS L. 1120 F. 706

WILLIE H. & FRANCES FERRELL L. 396 F. 706

MARY G. L. 52 RIVINGTON

copy of signed final F-98-150

N18°39'15"E

Sheet 2 of 3

Sheet 3 of 3 350.82'

3/4" I.P.F.

13

20

10

11

12

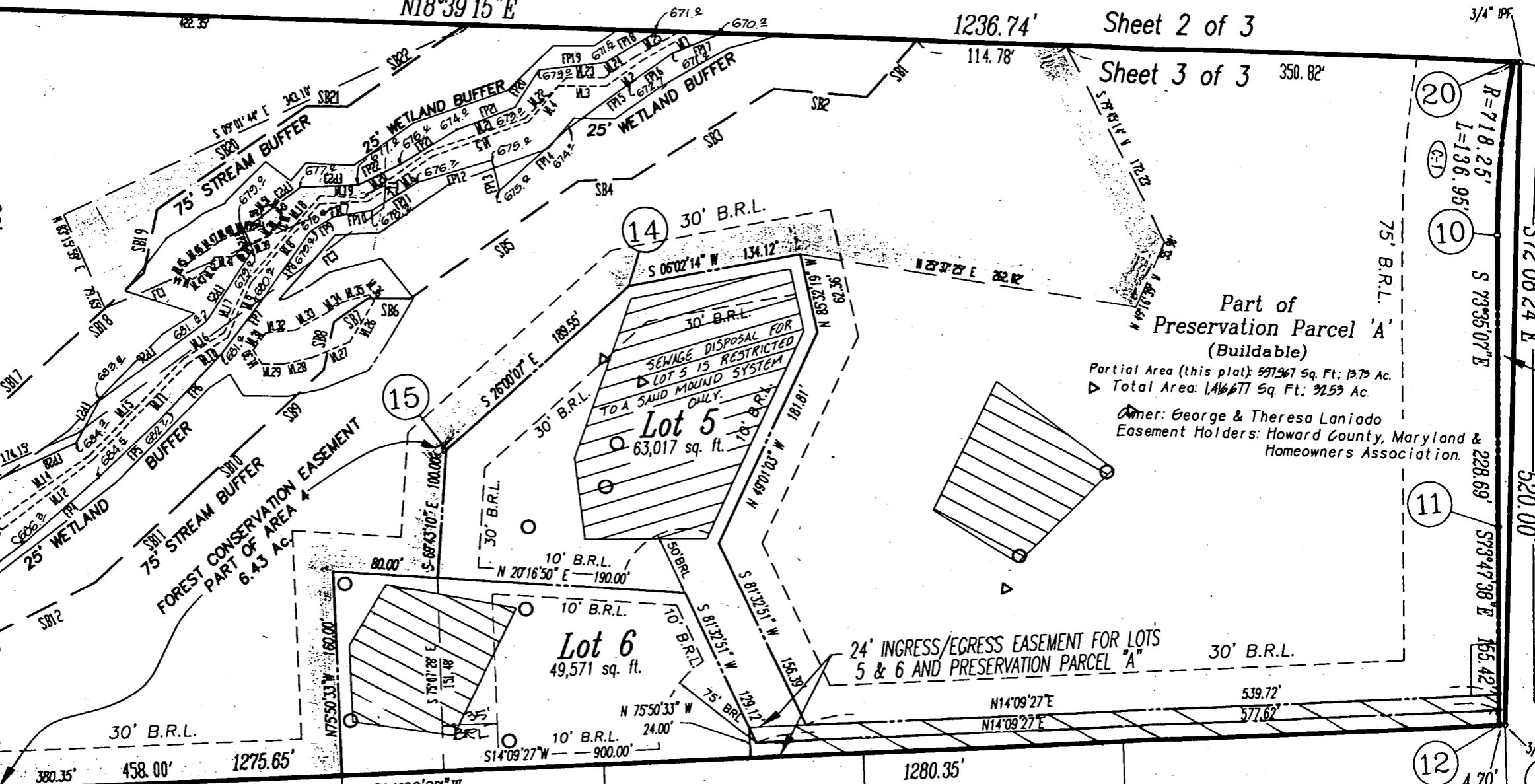
3

60' B.R.L.
460.24'
N68°14'16"W
160.95'

60' B.R.L.

60' B.R.L.

30' B.R.L.



Part of
Preservation Parcel 'A'
(Buildable)
Partial Area (this plat): 597,967 Sq. Ft. 13.73 Ac.
Total Area: 1,416,677 Sq. Ft. 32.53 Ac.
Owner: George & Theresa Laniado
Easement Holders: Howard County, Maryland & Homeowners Association.

LOT "F"
WILLIAM H. & WANDA L. LOWERY L. 285 F. 320

LOT "D"
WILLIAM H. & WANDA L. LOWERY L. 285 F. 320

LOT "C"
WILLIAM H. & WANDA L. LOWERY L. 285 F. 320

LOT "E"
GEORGE JOHN KOCH L. 299 F. 130

LOT "A"
GEORGE JOHN KOCH L. 299 F. 130

PROPERTY OF
GEORGE & THERESA C. LANIADO L. 1345 F. 699

281500

ification for Soil Erosion
covered.

discing or other

(92 lbs./1,000 Sq. Ft.)
lbs./1,000 Sq. Ft.) before
inches of soil. At time
reform fertilizer.
5 lbs./1,000 Sq. Ft.)

August 1 through
lbs./1,000 Sq. Ft.)
y 1 through July 31,
Kentucky 31 Tall
Ft.) of weeping
through February 28.
e of well anchored
the spring option
/acre Kentucky 31 Tall Fescue
straw. All slopes should be

1,000 Sq. Ft.) of
eeding. Anchor
gallons per acre
at acres. On slopes
gal/1,000 Sq. Ft.) for

ra, replacements

15 lbs./acre and
ding requirement.
to April 30.

the following
y clay loam, loamy sand,
soil scientist and approved by the
e a mixture of contrasting
nders, stones, slag, coarse
r than 1-1/2" in diameter.

Grass, Quackgrass,
lified.

ys, ground limestone shall be
q, Ft.) prior to the placement
areas and worked into the soil
ving procedures.

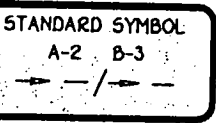
ed in 20.0 vegetative stabilization-

KE

R FLATTER
FLOW

EXCAVATE TO PROVIDE
REQUIRED FLOW WIDTH
AT DESIGN FLOW DEPTH

| | DIKE A | DIKE B |
|---------------|--------|--------|
| a-DIKE HEIGHT | 18" | 30" |
| b-DIKE WIDTH | 24" | 36" |
| c-FLOW WIDTH | 4' | 6' |
| d-FLOW DEPTH | 12" | 24" |



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into

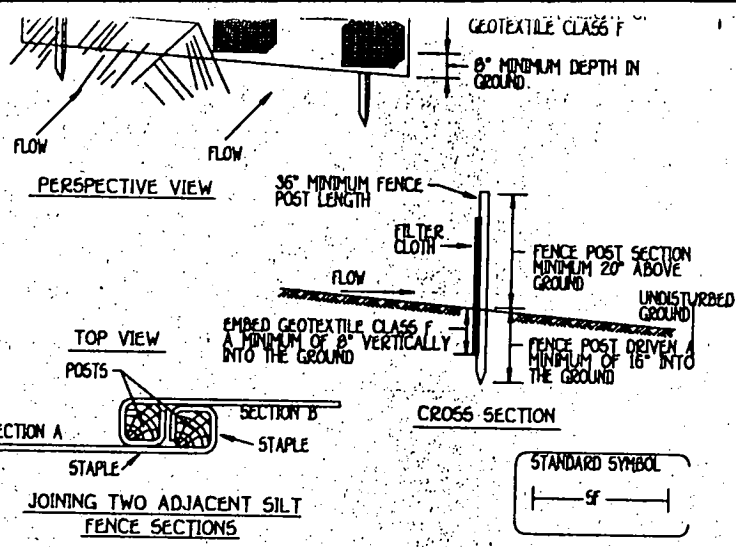
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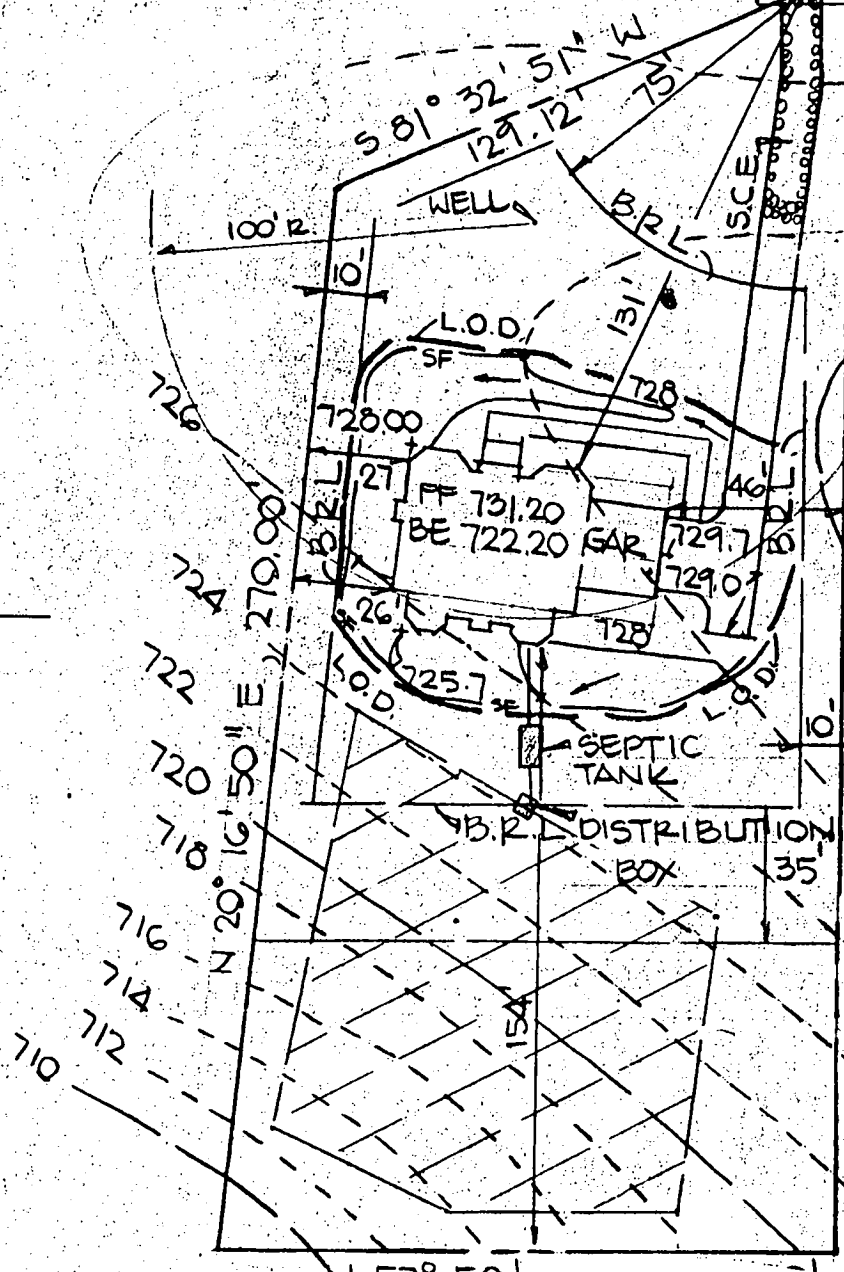
all be placed
he dike.
ally and after



- Construction Specifications**
1. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
 2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

| | | |
|----------------------|---------------------------------------|----------------|
| Tensile Strength | 50 lbs/in (min.) | Test: MSMT 509 |
| Tensile Modulus | 20 lbs/in (min.) | Test: MSMT 509 |
| Flow Rate | 0.3 gal ft ² /minute (max) | Test: MSMT 322 |
| Filtering Efficiency | 75% (min.) | Test: MSMT 322 |
 3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SILT FENCE
NOT TO SCALE



Approved Sepsic System Plan
Howard County Health Department

Total linear feet of trench required 280 feet
Width of trenches 3.0 feet
Depth of trenches 4.5 feet
Depth of stone required below distribution pipe 1.5 feet

July 26, 2000
Signature _____ Date _____

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2835

GENERAL NOTES

1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT
2. PROPOSED 1500 GALLON SEPTIC TANK
3.

| | |
|--|--------|
| A. FIRST FLOOR ELEVATION | 731.20 |
| B. BASEMENT ELEVATION | 723.20 |
| C. INVERT OF SEPTIC SYSTEM AT HOUSE | 721.90 |
| D. INVERT IN AT SEPTIC TANK | 721.50 |
| E. INVERT OUT AT SEPTIC TANK | 721.20 |
| F. PROPOSED GRADE OVER SEPTIC TANK | 725.00 |
| G. INVERT AT DISTRIBUTION BOX | 721.00 |
| H. EXISTING GROUND OVER DISTRIBUTION BOX | 724.00 |
4. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
5. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.

F.C.C.

4 x 4 minimum of 36' long driven 16" minimum into the ground shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter shall be of sound quality hardwood. Steel posts will be 1/2" diameter and shall weigh not less than 1.00 pound per linear foot.

Fastened securely to each fence post with wire ties and mid-section and shall meet the following requirements:

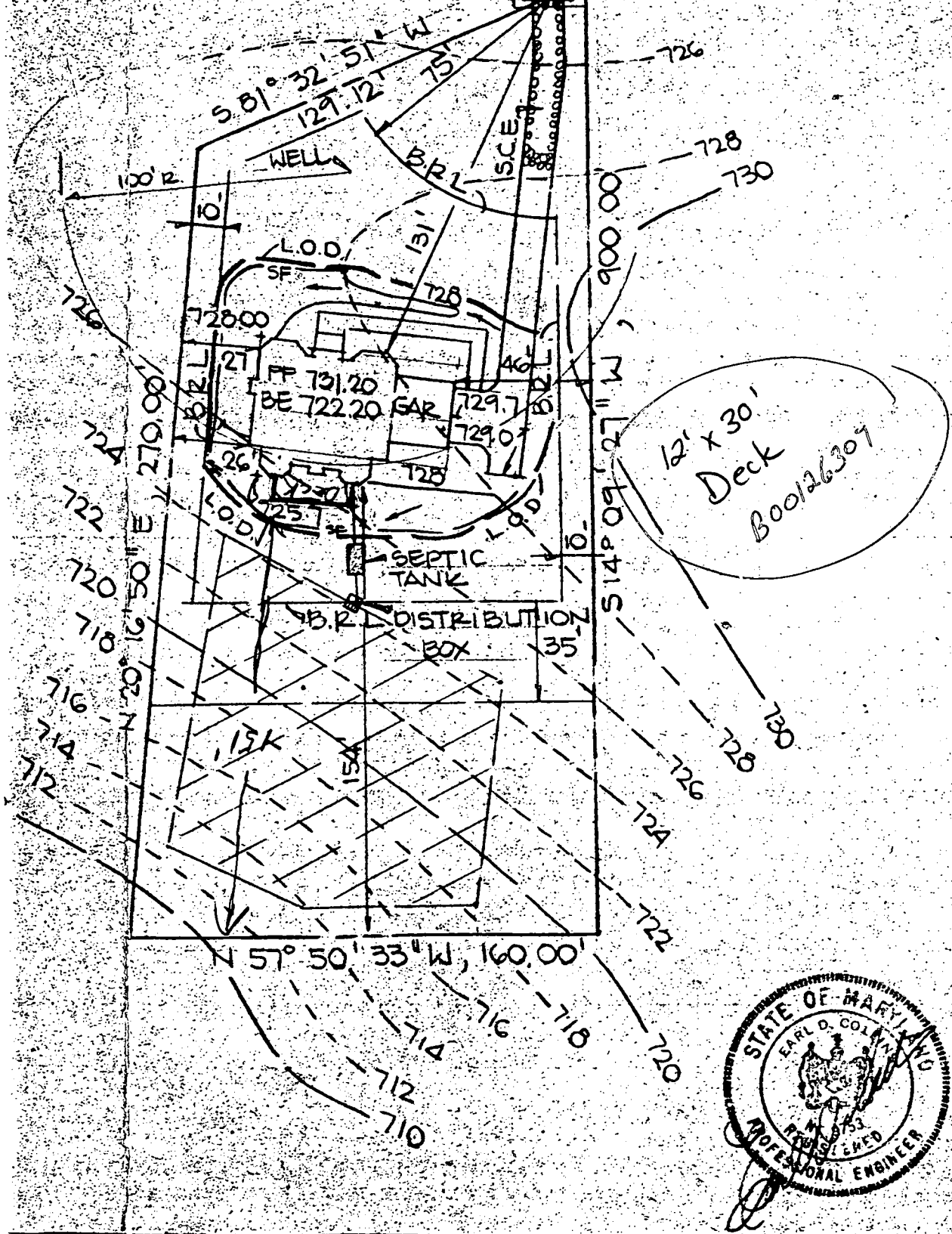
- 50 lbs/in (min) Test: MHT 509
- 20 lbs/in (min) Test: MHT 509
- 0.3 gal / minute (max) Test: MHT 322
- 75% (min) Test: MHT 322

When fabric comes together, they shall be overlapped to prevent sediment bypass.

Inspected after each rainfall event and maintained when sediment accumulation reached 50% of the fabric height.

SILT FENCE

NOT TO SCALE



PLAN TO
 APPLICAT
 BUILD
 LAND DC
 LO
 4TH ELECTION
 SCALE 1" = 1'

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: J. Jos Gartland, Inc. Telephone #: 410-875-2400
Address: 1835 W. Old Liberty Rd
Westminster, Md. 21157

(Please circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): Eric J. Gartland License# 9549
A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Capri 900 Homes, Inc. Telephone #: 410-465-7755
Subdivision: Laniado Property Lot #: 6 Well Tag #: HO -
Site Address: 17005 Frederick Road
Woods Hole, Md. 21797

| | | |
|---|---|--|
| <u>Submersible Pump Data</u> | <u>Pitless Adapter</u> | <u>Well Cap and Electric Conduit</u> |
| Make: <u>Goulds</u> | Make: <u>Howard</u> | Two piece watertight cap: <input checked="" type="checkbox"/> |
| Model #: <u>56505482</u> | Model #: <u>PT800</u> | Screened, vented well cap: <input type="checkbox"/> |
| Pump Capacity: <u>5</u> GPM | Depth: <u>42"</u> (36" min) | Cap secured to casing: <input checked="" type="checkbox"/> |
| Well Yield: <u> </u> GPM | NSF approved: <input checked="" type="checkbox"/> | Conduit min 18" B.G.: <input checked="" type="checkbox"/> |
| Depth of well encountered at time of pump installation: <u>450</u> (feet) | | Conduit secured to well cap: <input checked="" type="checkbox"/> |
| If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4 | | |
| Torque arrestors or <u>Cable guards are required</u> - Must circle one | | |
| Safety rope, if used, attached to inside of well casing with eye bolt <u> </u> | | |

| | |
|---|--|
| <u>Piping to house</u> | <u>House Connection</u> |
| Type: <u>PLASTIC</u> | PVC sleeved to undisturbed soil at wall penetration: <input checked="" type="checkbox"/> |
| PSI: <u>160</u> (160 psi min) | Approximate length of sleeve: <u>6 FT.</u> |
| Depth of supply line: <u>42</u> (36" min) | Sleeve caulked and sealed properly: <u>Yes</u> |

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: [Signature] date: 10-16-00

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 7/12/00 Date Insp. Approved: 7/12/00
Inspection Data:
Pitless adapter and water supply line at least 36" below grade _____
Two piece cap installed and attached to casing securely _____
Elec. conduit extends at least 18" below grade/attached to cap properly _____
Safety rope installed inside of well casing _____
Correct well tag attached properly and casing 8" above finished grade _____
Water supply line sleeved adequately at house connection _____
Adequate grout observed below pitless adapter _____

WPI
OK
ALM
BB

C1 4116

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED.

COUNTY NUMBER A 57326

ST/CO USE ONLY DATE Received 11 12 98

DATE WELL COMPLETED 10 22 98

Depth of Well 385' (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-1765

OWNER C & M Partnership STREET OR RFD Frederick Road TOWN Mt. Airy SUBDIVISION Laniado Property SECTION LOT 6

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Brown Shale (0-47) and Blue Rock (47-385).

GROUTING RECORD form with fields for WELL HAS BEEN GROUTED, TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form with fields for casing types (ST, CO, PL, OT), MAIN CASING TYPE (P.L.), Nominal diameter, Total depth.

OTHER CASING (if used) form with fields for diameter, depth.

SCREEN RECORD form with fields for screen type (ST, BR, HO, PL, OT), DEPTH (nearest ft.)

WELL HYDROFRACTURED form with YES/NO options.

Legend for well status: A (abandoned), E (electric log), P (test well converted).

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 M5D024; DRILLERS SIGNATURE Joseph R. Mayne; LIC. NO. 1 D

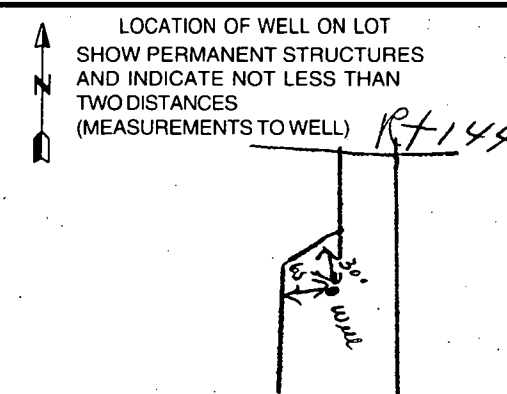
DEPTH (nearest ft.) table with rows E, A, C, H, S, R, E, E, N and columns 1-51.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

PUMPING TEST form with fields for HOURS PUMPED (6), PUMPING RATE (2.5), METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL (before/when pumping).

PUMP INSTALLED form with fields for DRILLER INSTALLED PUMP (YES/NO), TYPE OF PUMP INSTALLED (S), CAPACITY (GALLONS PER MINUTE), PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.



FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-1765
 Location of property (road) Fredrick Rd.
 Subdivision Lanorado Prop. Lot 6 Block _____ Plat _____ Sec. _____
 Well Driller J. Mayne Owner C.M. Partnership

Depth of well 385'
 Distance of measuring point (M.P.) above ground 3'
 Static water level (S.W.L.) below M.P. 46'

I. High rate pumping -- reservoir drawdown

Time pump started 7:00 Pumping rate 20 gpm
 Total time 45 MIN to reach pumping water level 298 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

| TIME (in 15 minute intervals) | WATER LEVEL below M.P. | PUMPING RATE time to fill <u>5'</u> gallon bucket | FLOW METER READING (if used) | CALCULATED FLOW (gallons per minute) |
|-------------------------------|------------------------|---|------------------------------|--------------------------------------|
| 7:15 | 156 | 3 | | 20 |
| 7:30 | 233 | 4 | | 15 |
| 7:45 | 298 | 4 | | 15 |
| 8:00 | 297 | 24 | | 2.5 |
| 8:15 | 297 | 24 | | 2.5 |
| 8:30 | 296 | 24 | | 2.5 |
| 8:45 | 296 | 24 | | 2.5 |
| 9:00 | 296 | 24 | | 2.5 |
| 9:15 | 296 | 24 | | 2.5 |
| 9:30 | 296 | 24 | | 2.5 |
| 9:45 | 295 | 24 | | 2.5 |
| 10:00 | 295 | 24 | | 2.5 |
| 10:15 | 295 | 24 | | 2.5 |
| 10:30 | 295 | 24 | | 2.5 |
| 10:45 | 295 | 24 | | 2.5 |
| 11:00 | 295 | 24 | | 2.5 |
| 11:15 | 294 | 24 | | 2.5 |
| 11:30 | 294 | 24 | | 2.5 |
| 11:45 | 294 | 24 | | 2.5 |
| 12:00 | 294 | 24 | | 2.5 |
| 12:15 | 294 | 24 | | 2.5 |
| 12:30 | 294 | 24 | | 2.5 |
| 12:45 | 294 | 24 | | 2.5 |
| 1:00 | 294 | 24 | | 2.5 |
| HD-224:15 | 294 | 24 | | 2.5 |
| 1:30 | 294 | 24 | | 2.5 |
| 1:45 | 294 | 24 | | 2.5 |