

APPLICATION

PERCOLATION TESTING

A 58696

P _____

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

DISTRICT _____

DATE _____

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 Mr. and Mrs. George Laniado

ADDRESS 17035 Frederick Rd. PHONE _____

AGENT OR PROSPECTIVE BUYER C & M Partnership

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Laniado Property LOT NO. 5

ROAD AND DESCRIPTION Frederick Road

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG. _____
(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. _____
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ 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

COUNTY #

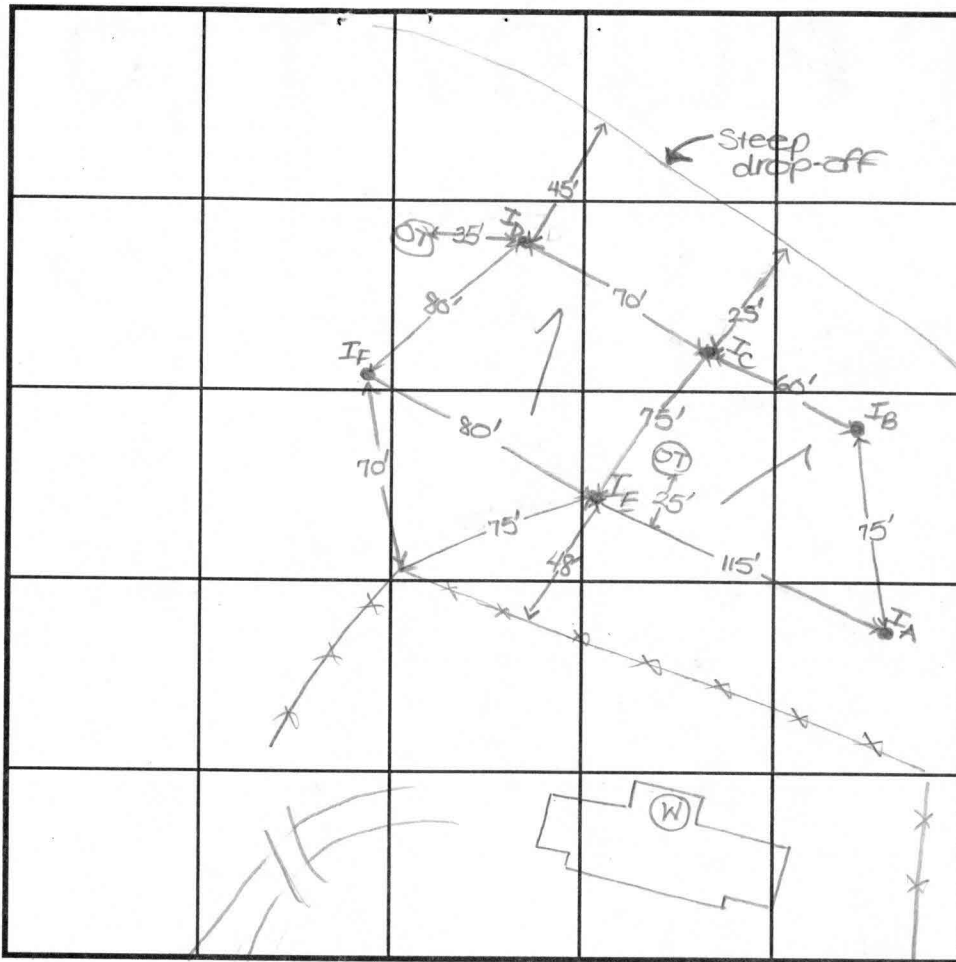
SOIL PROFILE

0'

Empty rectangular box for soil profile notes.

Empty rectangular box for soil profile notes.

Empty rectangular box for soil profile notes.



SOIL PROFILE

0'

Empty rectangular box for soil profile notes.

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Frederick Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
10-22-97							

REMARKS * sand mound tests - please refer to test data sheet

TYPE OF SOIL _____

TESTED BY D. Soc / R. Pinkley ALSO PRESENT O. Ketterman

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

APPLICATION

3/18/91
10:00
12:00

PERCOLATION TESTING

A 58596

P _____

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

DISTRICT 4

DATE 8/1/1997

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 RD PHONE _____

MT. AIRY, MD 21771

AGENT OR PROSPECTIVE BUYER C & U PARTNERSHIP

ADDRESS 1750 DAISY RD WOODBINE, MD 21797 PHONE (410) 442-1045

PROPERTY LOCATION:

SUBDIVISION LANIADO PROPERTY LOT NO. NEW LOT #5 NOT USED

ROAD AND DESCRIPTION SOUTH SIDE FREDERICK ROAD BEHIND EXIST. DWLG.

TAX MAP 7 PARCEL # B

SIZE OF LOT 54,460 SQ. FT. TYPE BLDG. SFD
(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.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

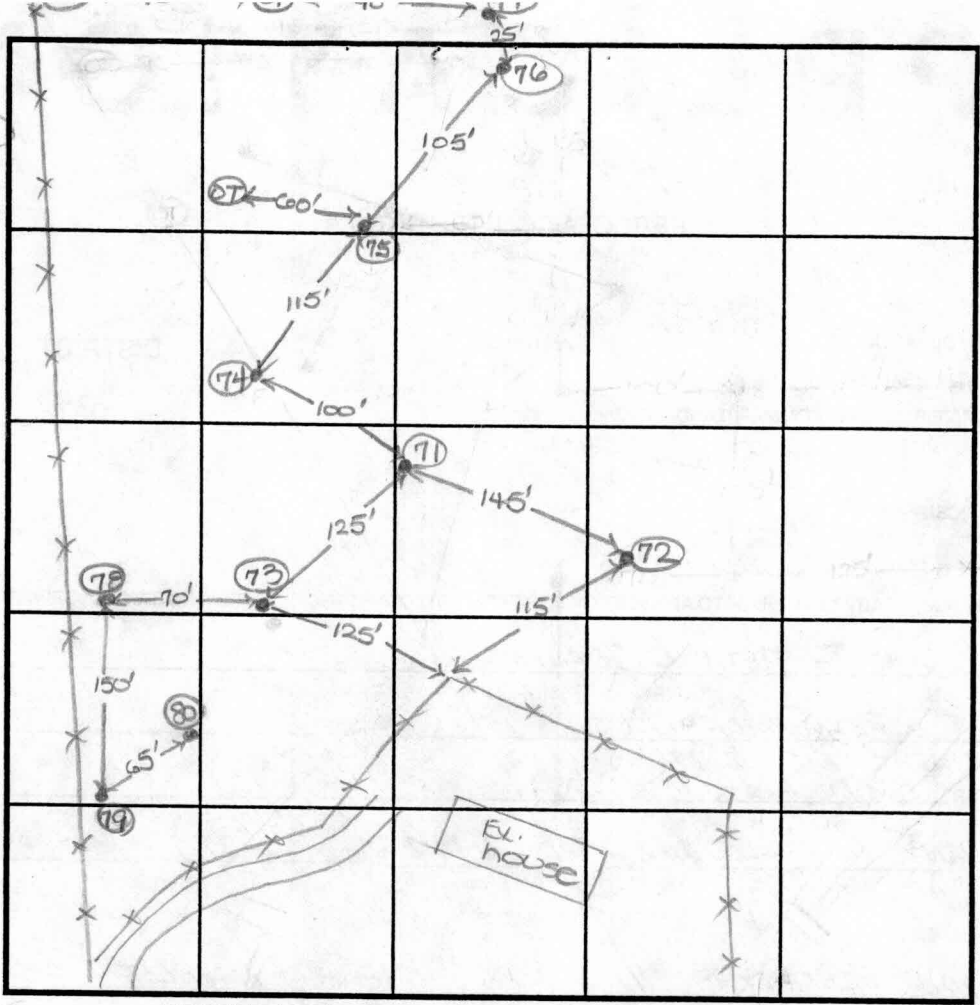
REASONS FOR REJECTION OR HOLDING _____

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

58596
COUNTY #



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Frederick Road

SOIL PROFILE (70/73/76)
0' topsoil
1' org brn cl 1m
+5' 1+ org brn sa si 1m w/heavy Rx frag
9' REFUSAL

SOIL PROFILE (72/74)
0' topsoil
1' org brn cl 1m
3' 1+ org brn sa si 1m
+5' 1+ org brn sa si 1m w/heavy Rx frag
11'

SOIL PROFILE (73)
0' topsoil
1' org brn cl 1m
+5' pale org brn sa si 1m
7' >50% Rx frag
11'

SOIL PROFILE (78)
0' topsoil
1' org brn cl 1m
3.5' 1+ org brn sa si 1m w/some frags
11.5'

SOIL PROFILE (79/80)
0' topsoil
1' org brn cl 1m
1+ org brn sa si 1m
7' pale org brn sa si 1m w/350% Rx
11'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-18-97	71	9.0' D	Refusal	—	—	—	F
	72	11.0' D	Visual	—	—	—	F
	73	11.0' D	Visual	—	—	—	F
	74	10.0' D	Visual	—	—	—	F
	75	8.5' D	Refusal	—	—	—	F
	76	7.0' D	Refusal	—	—	—	F
	77	6.0' D	Refusal	—	—	—	F
	78	11.5' D	Visual	—	—	—	?
	79	11.0' D	Visual	—	—	—	F
	80	11.0' D	Visual	—	—	—	F

REMARKS all measurements are approximate
 TYPE OF SOIL _____
 TESTED BY D. Soe ALSO PRESENT T. Marshall O. Ketterm
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____
 INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

TEST DATA

NAME <u>Laniado Property</u>	FILE NO <u>A58596</u>
LOCATION <u>Frederick Road</u>	COUNTY <u>Howard</u>
<u>Lot 5 (proposed)</u>	DATE <u>10/22/97</u>
RECORDED BY <u>D. Sae</u>	GRID _____ E
	N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
	IA	17"-23"	10:57 11:08 11:10 11:38		7" 5 9/16" 7" 5"	28 min 2" = 14 mpi
		Repair ←		Repair ←		
				14 mpi		
	IB	12"-19"	10:43 10:52 11:04 11:06 11:34		7" 6 5/16" 5 1/2" 7" 5"	12 min = 14.8 mpi 13 1/16" 28 min = 14 mpi 2"
		Repair ←		Repair ←		
				14.4 mpi		
	IC	13"-19"	11:13 11:33 11:53 12:17 12:48		7" 6 1/2" 6 1/4" 5 7/8" 5 9/16"	20 min = 80 mpi 1/4" 24 min = 64 mpi 3 1/8" 31 min = 100 mpi 5/16" = 81 mpi
				81 mpi		

TEST DATA

NAME <u>Laniado Property</u>	FILE NO <u>458596</u>
LOCATION <u>Frederick Rd</u>	COUNTY <u>Howard</u>
	DATE <u>10/22/99</u>
	GRID _____ E
RECORDED BY <u>DKS + RJP</u>	_____ N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
	I _D	12"-18"	1:43 1:58 2:14 2:39		7" 6" 5 6/32" 4 1/32"	$\frac{16 \text{ min}}{13/16"} = 19.7 \text{ mpi}$ $\frac{25 \text{ min}}{37/32"} = 21.6 \text{ mpi}$
				<u>21 mpi</u>		
	I _E	15"-21"	12:09 12:40 1:14 1:55 2:34 3:04 3:09 3:39		7" 6 10/32" 5 3/4" 5 6/32" 4 3/4" 4 1/2" 7" 6 12/32"	$\frac{34 \text{ min}}{9/16"} = 60.4 \text{ mpi}$ $\frac{41 \text{ min}}{9/16"} = 72.9 \text{ mpi}$ $\frac{39 \text{ min}}{7/16"} = 89.1 \text{ mpi}$ $\frac{30 \text{ min}}{1/4 \text{ in}} = 120 \text{ mpi}$ (NOT USED) $\frac{30 \text{ min}}{20/32"} = 48 \text{ mpi}$
		Repair <		Repair <		
				<u>67.6 mpi</u>		
	I _F	12"-17"	12:37 1:09 1:34 2:12 2:27 2:44		7" 4 13/16" 3 7/8" 7" 6 1/4" 5 1/4"	$\frac{32 \text{ min}}{2 13/16"} = 11.4 \text{ mpi}$ $\frac{15 \text{ min}}{3/4"} = 20 \text{ mpi}$ $\frac{17 \text{ min}}{1"} = 17 \text{ mpi}$
		Repair <		Repair <		
				<u>16 mpi</u>		

SOIL DESCRIPTION

NAME Laniedo Property (Lot 5 proposed Frederick Rd) COUNTY Howard FILE NO A58596
 SOIL MAP UNIT Mount Airy MAP SYMBOL Mt B2 DATE 10/22/97
 GEOLOGIC MATERIAL weathered chloritic schist + some quartz ELEVATION _____ GRID NO _____ E
 NO. _____ DESCRIBED BY R. Pinkley _____ N

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
O	1-0	black to v dk brn	—	loam	vf	gran	—	dry
A _E	0-2	grey 10yr 5/8	—	loam	f - suff	gran sbk	—	dry
B _{t1}	2-12	red yellow 7.5 yr 5/6	—	ch/sil	1-2 v-f	sbk	10% rch	dry, slightly sticky, 1/2-1" ribbon (when wet), 24-27% clay
B _{t21}	12-22	7.5 yr 5/8	—	ch/sil	1-2 m f-m	sbk	10-15% ch	dry, with loams, 10-15% ch
B _{t22}	22-36	7.5 yr 5/8	—	ch/sil 15-20%	1m-co	sbk - massive	15-20% ch	dry ch - weathered A1 schists
C _r	36-48+	7.5 yr 5/6	—	vch h/sil -sil		Massive	ch > 50% struct separolite	Rock + weathered Rock

LANDSCAPE

Position _____
 Summit _____
 Shoulder _____
 Sideslope _____
 Footslope _____
 Depression _____
 Upland _____
 Terrace _____
 Floodplain _____

Slope _____
 Percent _____
 Shape _____

SOIL DRAINAGE CLASS

ED _____ MWD _____ PD _____
 WD _____ SPD _____ VPD _____

WATER TABLE

LIMITING ZONE

SOIL CLASSIFICATION

SOIL DESCRIPTION

NAME _____ COUNTY _____ FILE NO _____
 SOIL MAP UNIT _____ MAP SYMBOL _____ DATE _____
 GEOLOGIC MATERIAL _____ ELEVATION _____ GRID NO _____ E
 NO. _____ DESCRIBED BY _____ N

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		

LANDSCAPE

Position

Summit _____ Depression _____
 Shoulder _____ Upland _____
 Sideslope _____ Terrace _____
 Footslope _____ Floodplain _____

Slope

Percent _____
 Shape _____

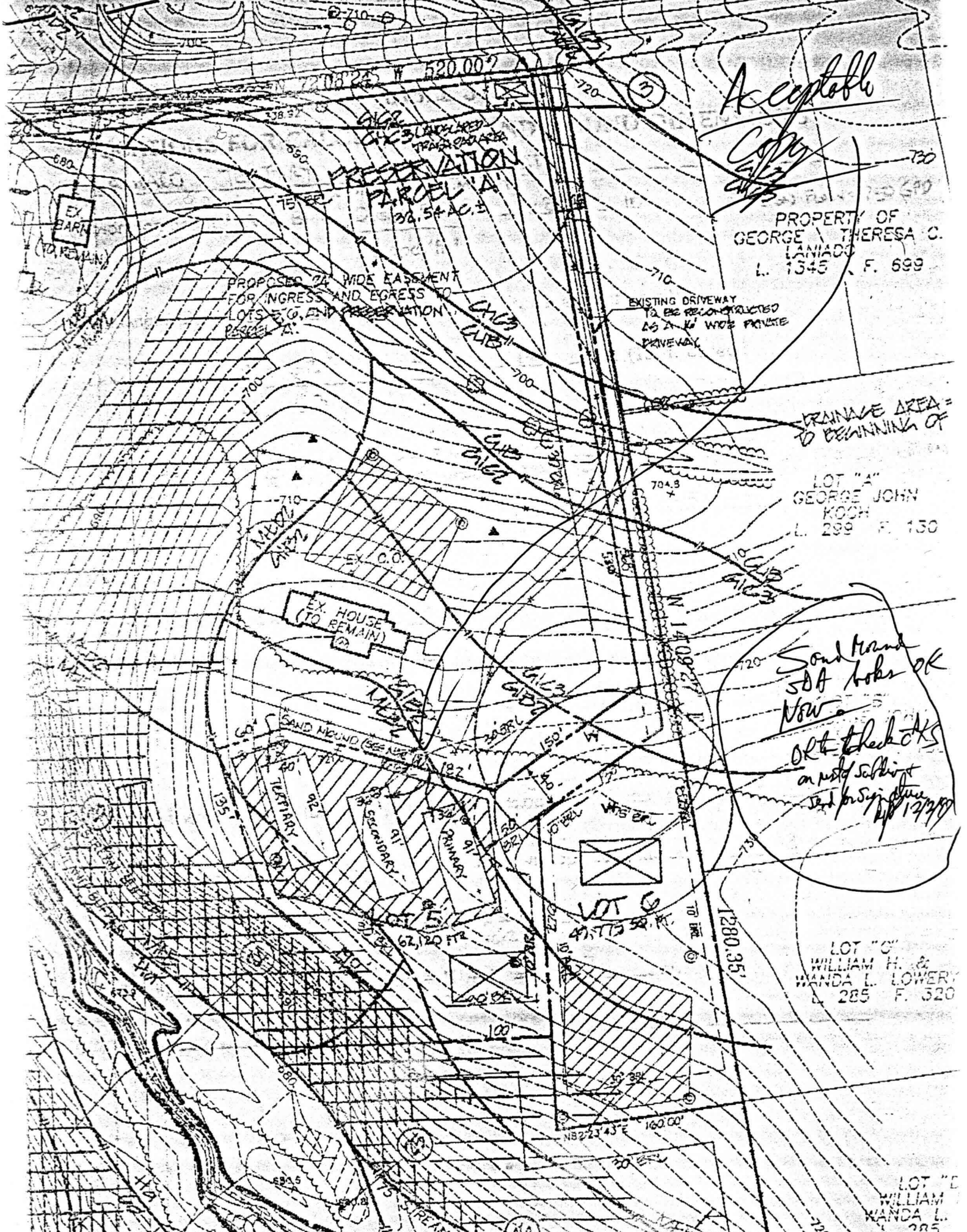
SOIL DRAINAGE CLASS

ED _____ MWD _____ PD _____
 WD _____ SPD _____ VPD _____

WATER TABLE

LIMITING ZONE

SOIL CLASSIFICATION



Acceptable
Copy

PROPERTY OF
 GEORGE & THERESA C.
 LANIACO
 L. 1545 F. 699

PROPOSED 24' WIDE EASEMENT
 FOR INGRESS AND EGRESS TO
 LOTS E, G, AND PRESERVATION
 PARCEL A.

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

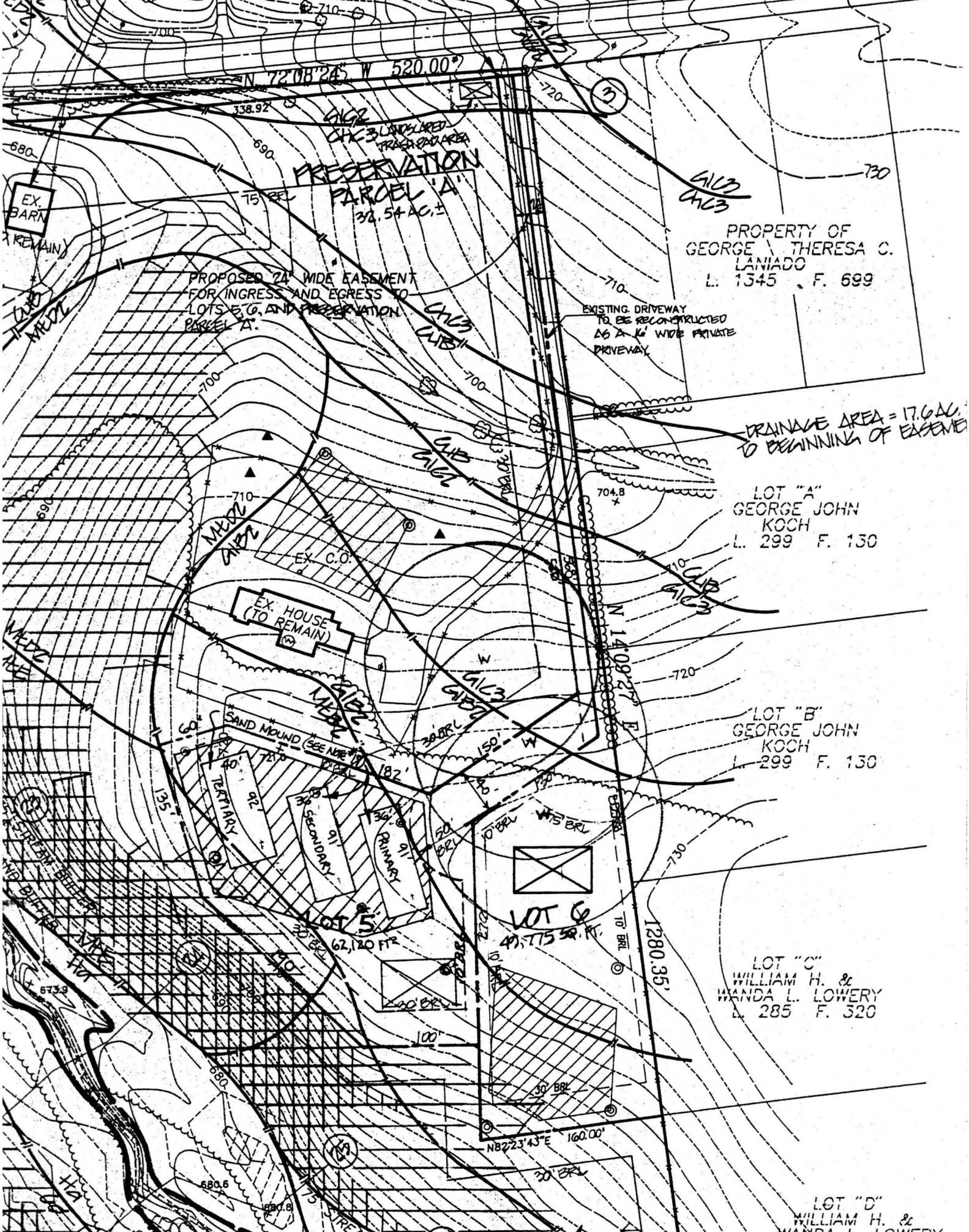
DRAINAGE AREA =
 TO BEGINNING OF

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

*Sand mound
 SDA looks OK
 Now*
*OK to check OK's
 on note subject
 and for signature
 12/17/99*

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

LOT "D"
 WILLIAM
 WANDA L.
 L. 285



**PRESERVATION
PARCEL "A"**
32.54 AC. ±

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

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

EX. BARN
(TO REMAIN)

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

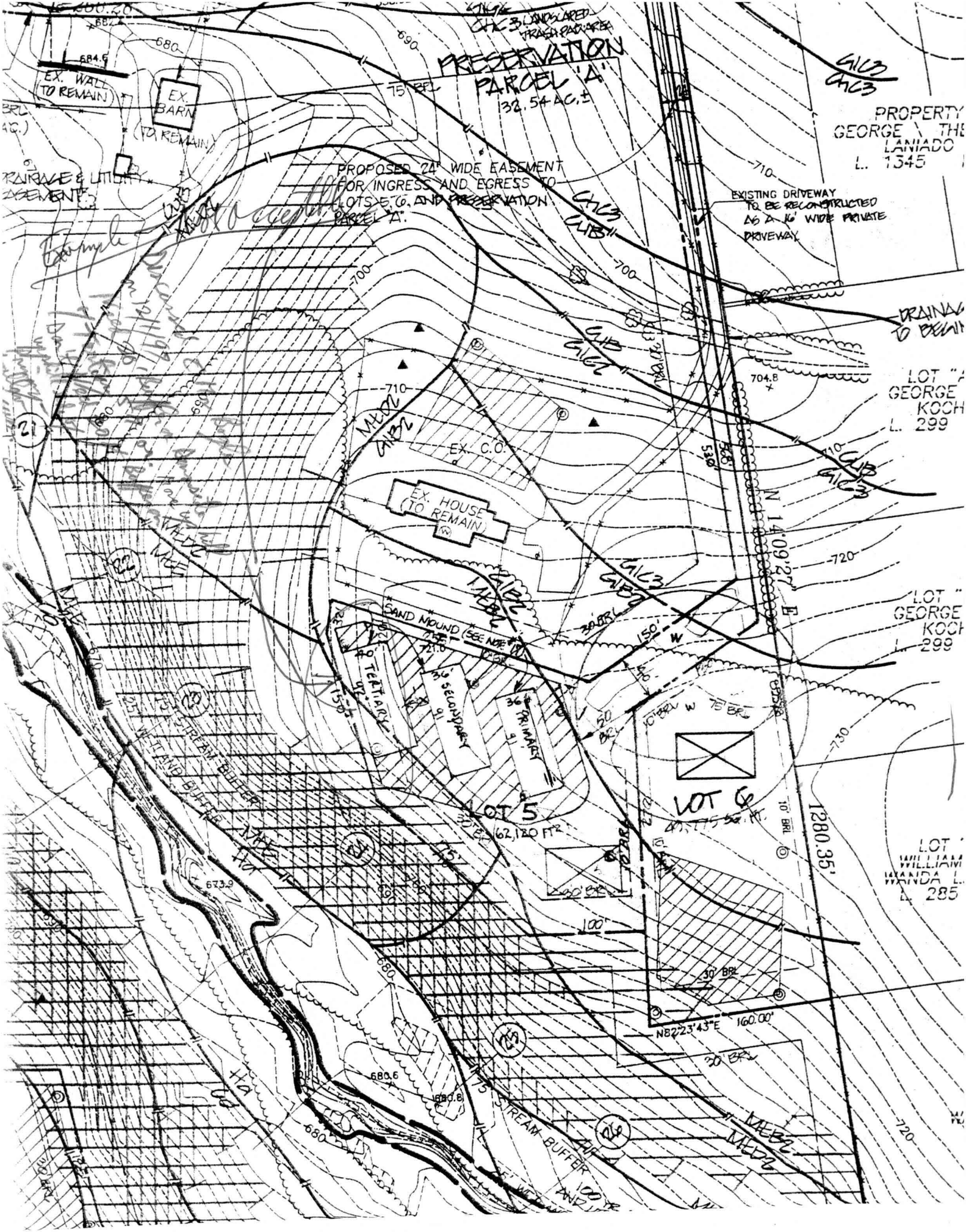
EXISTING DRIVEWAY
TO BE RECONSTRUCTED
AS A 16' WIDE PRIVATE
DRIVEWAY.

EX. HOUSE
(TO REMAIN)

SAND MOUND (SEE NOTE)

LOT 6
49,775 SQ. FT.

LOT 5
67,120 SQ. FT.



PRESERVATION PARCEL A
32.54 AC.±

PROPERTY GEORGE & THE LANIADO
L. 1345

PROPOSED 24' WIDE EASEMENT FOR INGRESS AND EGRESS TO LOTS E, G, AND PRESERVATION PARCEL A.

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

DRAINAGE TO BEHOLD

LOT "A" GEORGE KOCH L. 299

LOT "B" GEORGE KOCH L. 299

LOT "C" WILLIAM WANDA L. 285

EX. HOUSE (TO REMAIN)

EX. WALL TO REMAIN
EX. BARN (TO REMAIN)

SAND MOUND (SEE NOTE 1)

LOT 5
62,120 FT²

LOT 6

RAINAGE & UTILITY EASEMENT

21

22

23

24

BRU (AC.)

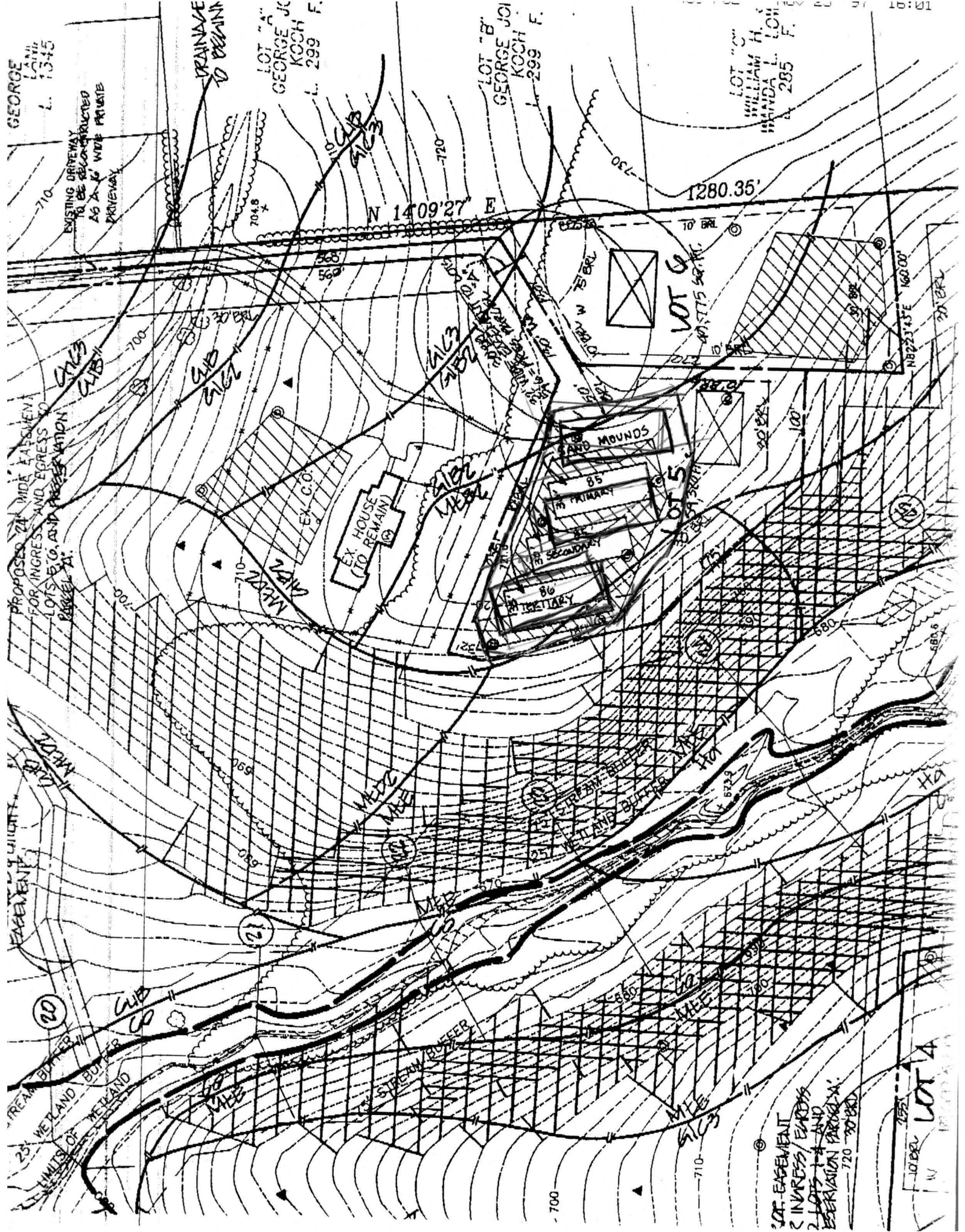
RAINAGE & UTILITY EASEMENT

100' WIDE STREAM BUFFER

100' WIDE STREAM BUFFER

100' WIDE STREAM BUFFER

100' WIDE STREAM BUFFER



GEORGE KOCH, JR.
L. 1345

LOT "A"
GEORGE KOCH, JR.
L. 299 F.

LOT "B"
GEORGE KOCH, JR.
L. 299 F.

LOT "C"
WILLIAM H. LOHMEYER
L. 285 F.

LOT 6
SAND MOUNDS

EX HOUSE (TO REMAIN)

SAND MOUNDS

85

86

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

EASEMENT LIGHT

25' WETLAND BUFFER
LIMITS OF WETLAND

OF EASEMENT C INGRESS/EGRESS TO LOTS 1-4 AND PRESERVATION PARCEL A.
120' 30" BRD

LOT 4
WETLAND BUFFER

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

DRAINAGE TO REMAIN

12:01

L. 1345

EXISTING DRIVEWAY TO BE RECONSTRUCTED AS A 40' WIDE PRIVATE DRIVEWAY

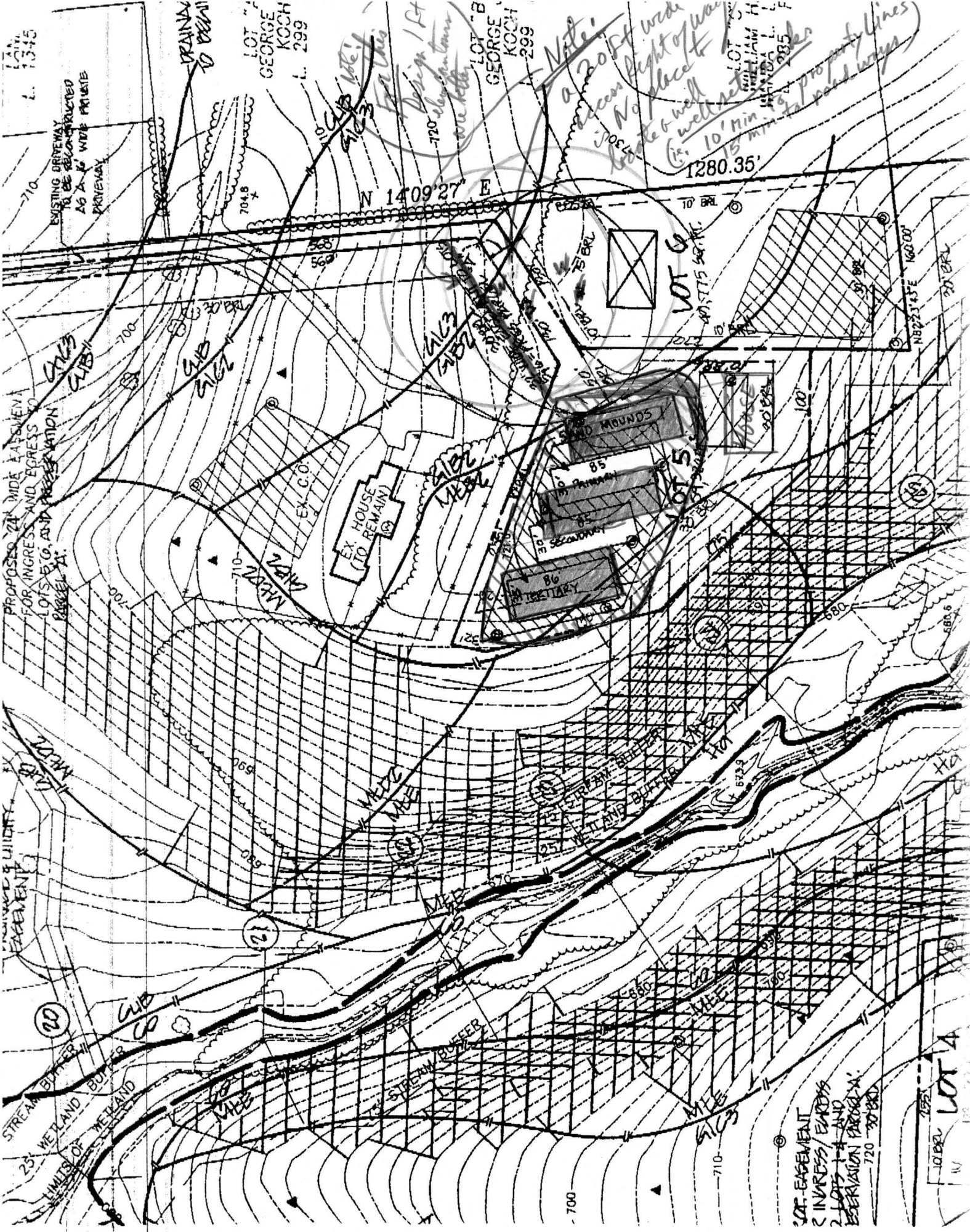
DRAINAGE TO BE RECONSTRUCTED

LOT "A" GEORGE KOCH L. 299

LOT "B" GEORGE KOCH L. 299

LOT "C" WILLIAM H. HANCOCK L. 285

Note: a 20' wide stream bed of water No place to locate a well (well set 10' min 15' min to property lines)



LOT EASEMENT & INGRESS/EGRESS TO LOTS 5, 6, AND 7 AND RESERVATION PARCEL "A" 720 30' BLD

10' BLD LOT 4