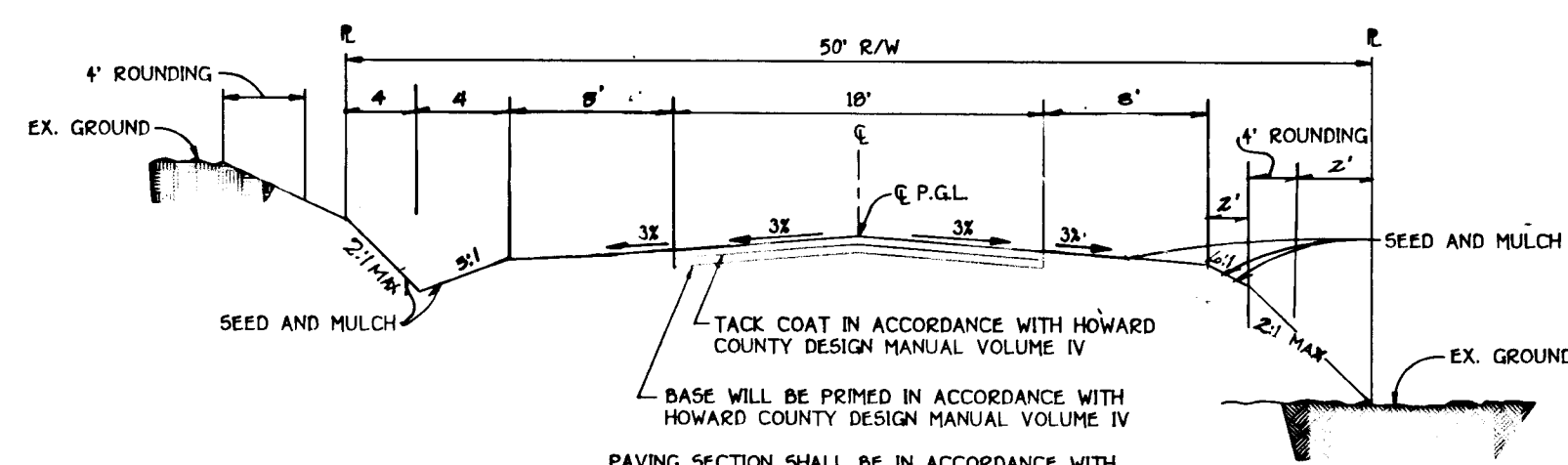


SHEET INDEX	
No.	TITLE
1.	FINAL CONSTRUCTION PLAN COVER SHEET
2.	CROSS SECTIONS OF EXISTING MD. RTE. 108
3.	CROSS SECTIONS OF EXISTING MD. RTE. 108
4.	PLAN & PROFILE OF CLARKSVILLE PIKE (MD. RTE. 108)
5.	PLAN & PROFILE OF PATERNAL GIFT DRIVE / BITER LANE PLAN
6.	PLAN & PROFILE OF PATERNAL GIFT DRIVE / ALEXANDER DRIVE PLAN
7.	PLAN & PROFILE HALL SHOP ROAD &
8.	ALEXANDER DRIVE, BITER LANE & PATERNAL GIFT DRIVE; CUL-DE-SAC PROFILES
9.	STORM DRAIN / DRAINAGE AREA MAP
10.	STORM DRAIN / DRAINAGE AREA MAP
11.	STORM DRAIN PROFILES
12.	S.W.M. / DRAINAGE AREA MAP / EXISTING CONDITIONS
13.	S.W.M. / DRAINAGE AREA MAP / EXISTING CONDITIONS
14.	S.W.M. / DRAINAGE AREA MAP / PROPOSED CONDITIONS
15.	S.W.M. / DRAINAGE AREA MAP / PROPOSED CONDITIONS
16.	S.W.M. PLAN, PROFILES & DETAILS
17.	S.W.M. CONSTRUCTION SPECIFICATIONS
18.	SEDIMENT CONTROL NOTES & DETAILS
19.	GRADING, SEDIMENT CONTROL
20.	GRADING, SEDIMENT CONTROL
21.	GRADING, SEDIMENT CONTROL
22.	LANDSCAPE PLAN AND STREET TREE PLAN
23.	LANDSCAPE PLAN AND STREET TREE PLAN

STRUCT. NO.	PIPE SIZE	Q CFS	'n'	CHAN. SLOPE	BOTTOM WIDTH	SIDE SLOPE	PIPE VEL.	FLOW DEPTH	CHAN. VEL.	CHANNEL TREATMENT
I-1	N/A	2.5	.05	1.7%	0'	2&3:1	N/A	.73'	1.9	LIME, FERTILIZE, SEED & MULCH
I-2	N/A	1.1	.05	1.8%	0'	2&3:1	N/A	.53'	1.6	"
I-3	N/A	0.4	.05	1.8%	0'	2&3:1	N/A	.36'	1.2	"
I-4	N/A	3.2	.05	3.1%	0'	2&3:1	N/A	.72'	2.5	"
I-5	N/A	4.7	.05	3.1%	0'	2&3:1	N/A	.83'	2.8	"
I-6	N/A	3.5	.05	5.8%	0'	2&3:1	N/A	.66'	2.2	"
MO 108 N	N/A	1.2	.05	2.5%	0'	3&4:1	N/A	.24'	1.1	"
MO 108 S	N/A	2.7	.05	3.4%	0'	3&4:1	N/A	.51'	1.6	"



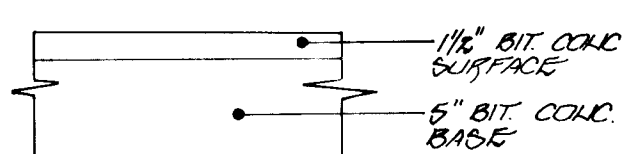
NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION

TYPICAL ROADWAY SECTION (NO SCALE)

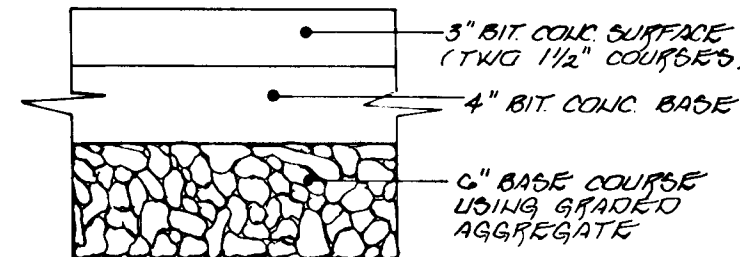
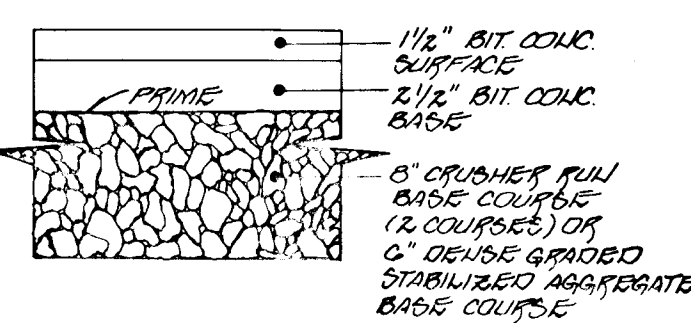
**BENCH MARKS**

BM 13	N 549,708.0140 E 1,323,574.1952	REBAR AND CAP SET ON S.E. SIDE OF CLARKSVILLE PIKE (MD. RTE. 108) ACROSS FROM BYE FIELD ROAD.	ELEV. = 527.14
BM 14	N 548,787.4297 E 1,322,937.4930	REBAR AND CAP SET ON S.E. SIDE OF CLARKSVILLE PIKE (MD. RTE. 108) 720' N OF BROOKS ROAD.	ELEV. = 474.12

FULL DEPTH BIT CONC. ALTERNATE



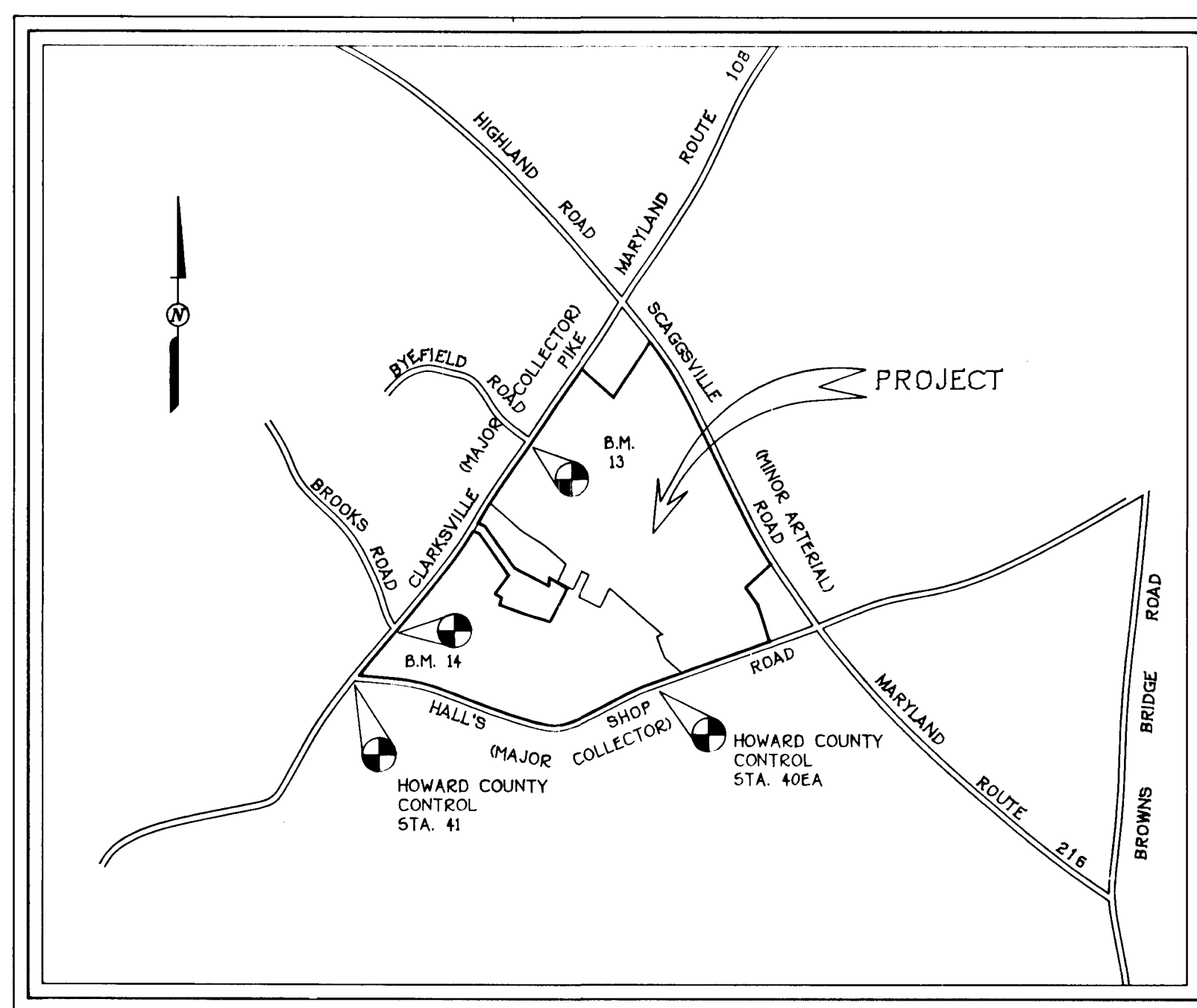
GRANULAR BASE ALTERNATE



P-2 PAVING SECTION (NO SCALE)

MD. RTE. 108 PAVING SECTION (NO SCALE)

# FINAL CONSTRUCTION PLANS PATERNAL GIFT FARM.



LOCATION PLAN  
SCALE: 1" = 1200'

## LOTS 1 - 28 AND PARCEL A AND OUT PARCEL B FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Aimee Swannick* 7/28/95  
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH  
DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*John Deamus* 7/16/95  
CHIEF ENGINEER DIVISION  
DATE

*Richard M. Daniels* 7-19-95  
CHIEF DIVISION OF HIGHWAYS  
DATE

*Paul W. Eason* 7/10/95  
CHIEF DIVISION OF ENGINEERING  
DATE

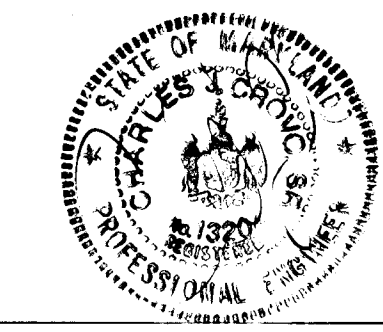
**GENERAL NOTES:**

- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE FOLLOWING:
  - HOWARD COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
  - MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, AS AMENDED.
  - SOIL CONSERVATION SERVICE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  - SOIL CONSERVATION SERVICE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR POND CONSTRUCTION (CODE 378).
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS, DIVISION OF CONSTRUCTION INSPECTION AT 410-333-1870 AT LEAST (9) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.
- SITE DATA:
  - LOCATION: BOUNDED BY MD. RTE. 218, MD. RTE. 108 AND HALL SHOP ROAD
  - TAX MAP No. 40 PARCEL No. 90, 179 & 369
  - ZONING: R2-350
  - ELECTION DISTRICT No. 5
  - OUT PARCEL A - (3,097 AC. OUT PARCEL B) - (5,085 AC.)
  - TOTAL TRACT AREA: 114,772 AC.
  - TOTAL No. OF SINGLE FAMILY LOTS: 27
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ASPHALT.
- TOPOGRAPHIC SURVEY BY PHOTO-SCIENCE, INC., MARCH, 1993, 2" CONTOUR INTERVAL.
- HORIZONTAL AND VERTICAL CONTROL IS BASED ON THE FOLLOWING HOWARD COUNTY CONTROL POINTS:
 

41	N 547778.4446	ELEV. = 449.70 CONC. MON.
	E 132200.8229	
40EA	N 547913.3137	ELEV. = 504.10 CONC. MON.
	E 1324510.09	
- PRIVATE WATER AND SEWER SYSTEMS ARE TO BE UTILIZED.
- STORM WATER MANAGEMENT IS PROVIDED FOR THE INCREASE IN RUNOFF RESULTING FROM THE ROAD IMPERVIOUS AREAS. ALL STORM WATER MANAGEMENT FACILITIES ARE PUBLIC.
- THE 100 YEAR FLOOD STUDY WAS APPROVED WITH P-94-09.
- WETLANDS DELINEATION BY EXPLORATION RESEARCH, INC. APPROVED WITH P-94-09.
- TRAFFIC STUDY BY STREET TRAFFIC STUDIES, INC. APPROVED WITH P-94-09.
- NOISE STUDY PREPARED BY STAIANO ENGINEERING, INC. APPROVED WITH P-94-09.
- A GEOTECHNICAL REPORT WAS PREPARED BY HEREST & ASSOCIATES IN JULY, 1994.
- EXISTING UTILITIES WERE LOCATED BY ACTUAL FIELD MEASUREMENT WHERE POSSIBLE. SUPPLEMENT BY INFORMATION OBTAINED FROM THE VARIOUS AGENCIES INVOLVED. WE CAN NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF THE INFORMATION RECEIVED. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO THEIR OWN SATISFACTION PRIOR TO THE START OF CONSTRUCTION.
- ANY MATERIAL OR EARTHWORK QUANTITIES SHOWN HEREON ARE PROVIDED FOR THE APPROVING AUTHORITIES USE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES TO THEIR OWN SATISFACTION PRIOR TO BIDDING THE WORK.
- SECTION 16.15(B)(8) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PROHIBITS CLEARING, GRADING OR CONSTRUCTION ACTIVITY WITHIN THE REQUIRED WETLAND OR STREAM BANK BUFFERS.
- THIS PROJECT IS SUBJECT TO A DESIGN MANUAL WAIVER APPROVED ON OCTOBER 14, 1993 ALLOWING A 250' RADIUS IN LIEU OF THE 316' RADIUS NORMALLY REQUIRED.
- THIS PROJECT IS SUBJECT TO WAIVER PETITION WP-94-70 FROM THE FOLLOWING SECTIONS: (1) 16.12(B)(2) TO ALLOW EXISTING FARM DRIVEWAY No. 1 TO CONTINUE ACCESS ONTO MD. RTE. 108, EXISTING FARM DRIVEWAY No. 2 TO CONTINUE ACCESS TO/FROM HALL SHOP ROAD AND ALLOW NEW DRIVEWAY No. 3 TO ACCESS HALL SHOP ROAD, (2) 16.12(B)(4)(i)(ii) TO ALLOW THE CREATION OF IRREGULARLY SHAPED LOTS AND LOTS IN EXCESS OF THE 3:1 LOT RATIO (FOR LOTS 17, 19, 21 & 22). THE WAIVER PETITION No. WP-94-70 WAS APPROVED ON JUNE 2, 1994. THE WAIVER WAS AMENDED TO ALLOW TWO (2) ADDITIONAL DRIVEWAYS TO ACCESS HALL SHOP ROAD, ONE DRIVEWAY IS FOR THE EXISTING SCHEIDT RESIDENCE AND LOT 1 AND ONE DRIVEWAY FOR LOTS 19 & 22. THE AMENDMENT WAS APPROVED ON MAY 2, 1995.

FINAL CONSTRUCTION PLAN  
COVER SHEET  
PATERNAL GIFT FARM

TAX MAP No. 40 PARCEL 90, 179 & 369  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
DATE: NOVEMBER 22, 1994  
SCALE AS SHOWN  
SHEET 1 OF 23



FISHER, COLLINS & CARTER, INC.  
11455  
9071 BALTIMORE NATIONAL PIKE, SUITE 100  
BELLKOTT CITY, MARYLAND 21042  
410-461-2955

NO.	REVISIONS	DATE
1	REVISED TYPICAL ROADWAY SECTION DETAIL LOTS 1 & 28	9/1/95

OWNER  
DR. PETER C. SCHUBERT, TRUSTEE  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

DEVELOPER  
D. SUGAN SCHREIB  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

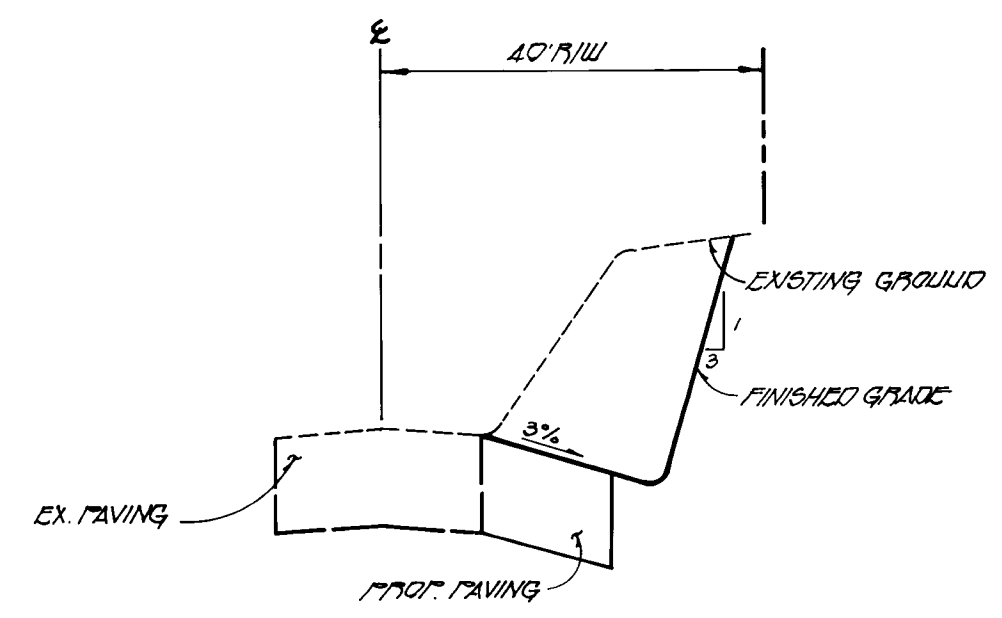
1741

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Abel Drummond* 7/19/95  
CHIEF, LAND DEVELOPMENT DIVISION DATE

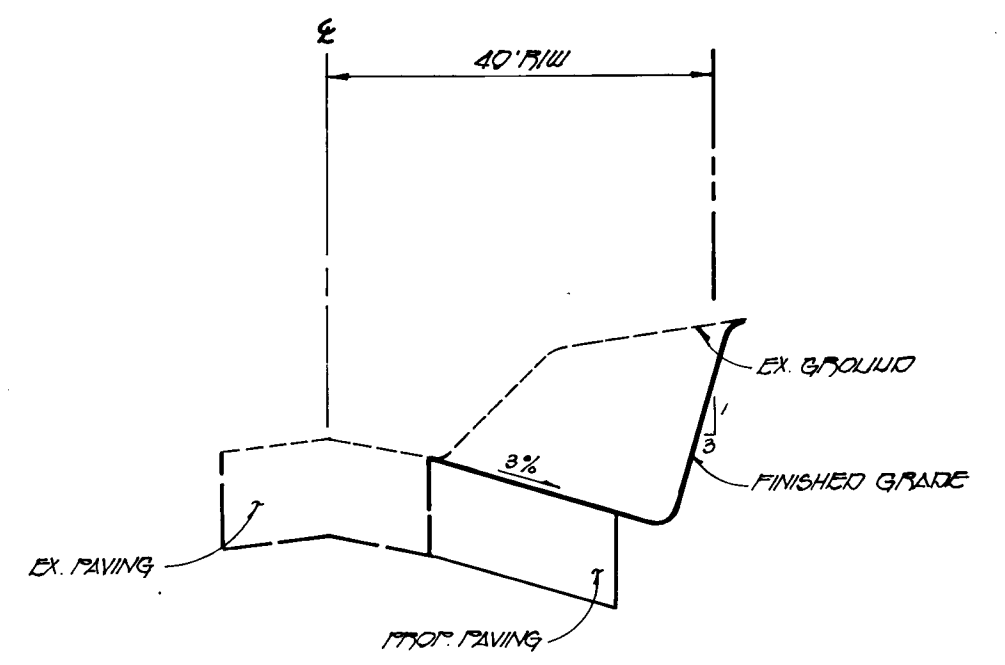
APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Andrew M. Daniel* 7-19-95  
CHIEF, BUREAU OF HIGHWAYS MS DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Paulo Sapan* 7/19/95  
CHIEF, BUREAU OF SURVEYING DATE

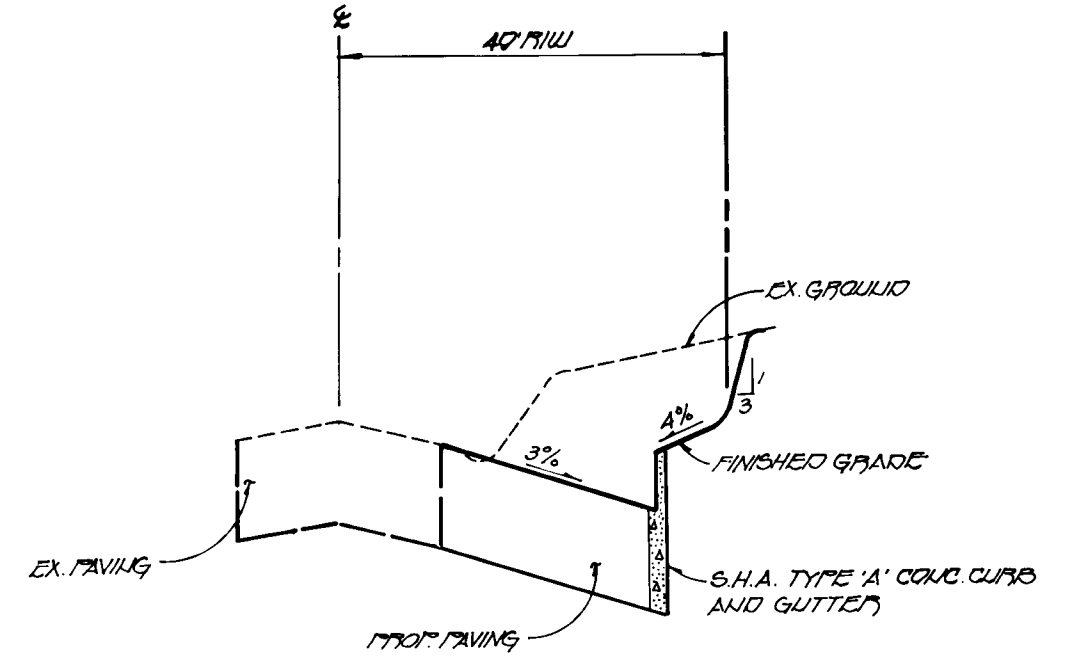
APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
*Jim Swannick* 7/28/95  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE



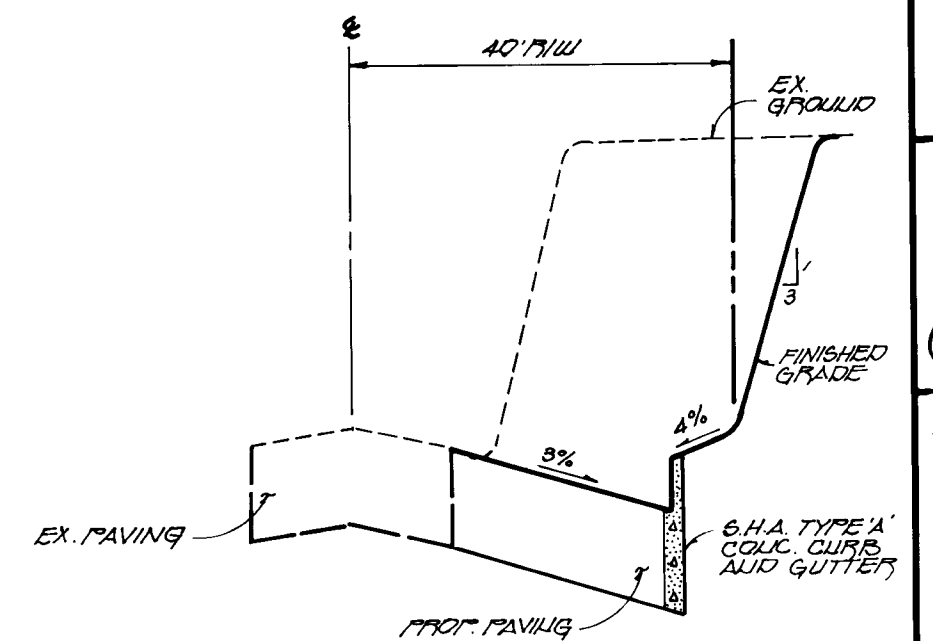
STA. 1+00 ELEV. 520



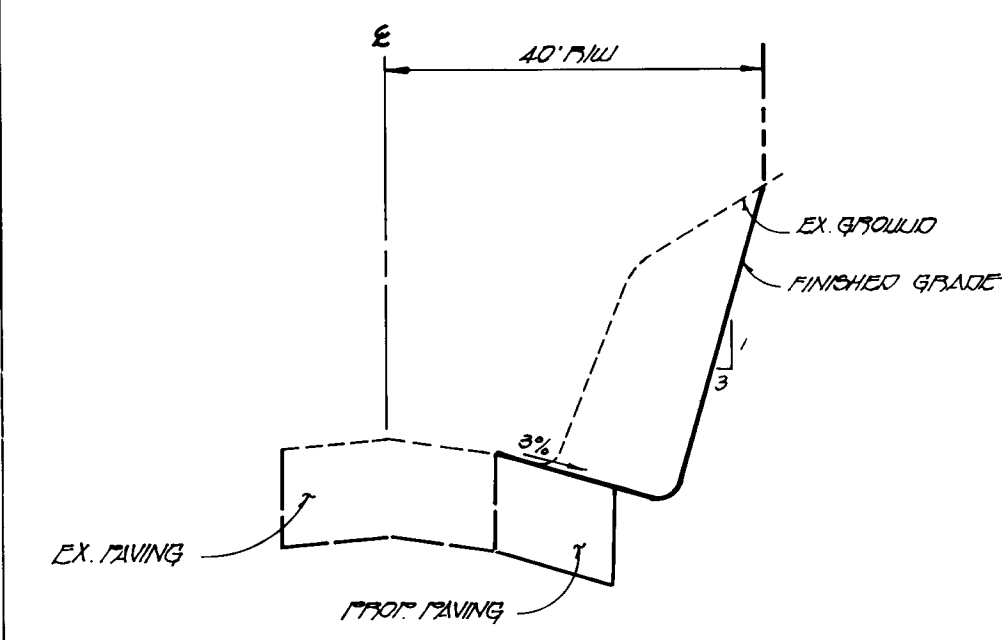
STA. 2+50 ELEV. 530



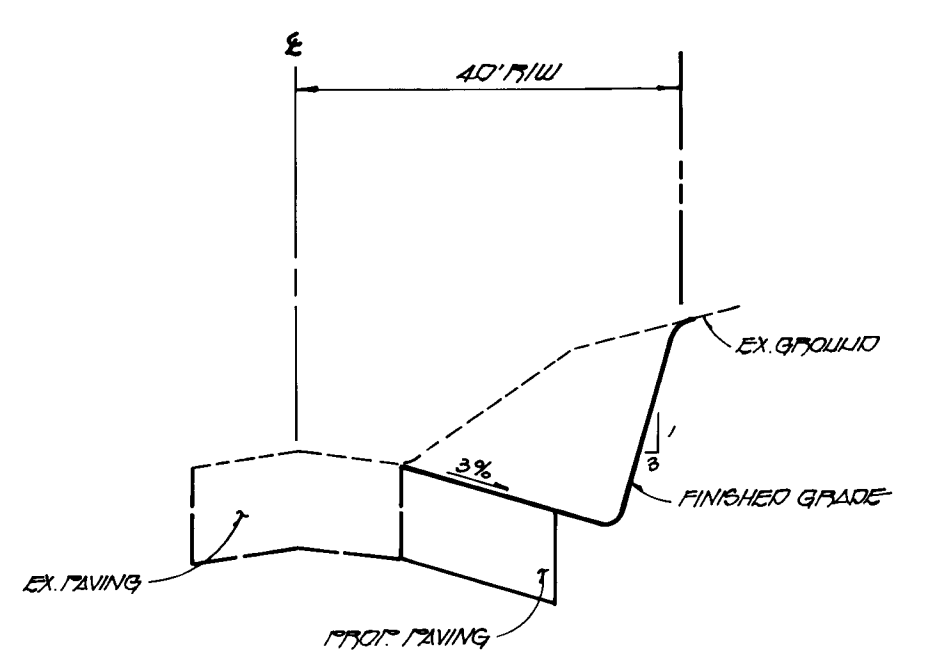
STA. 4+00 ELEV. 532



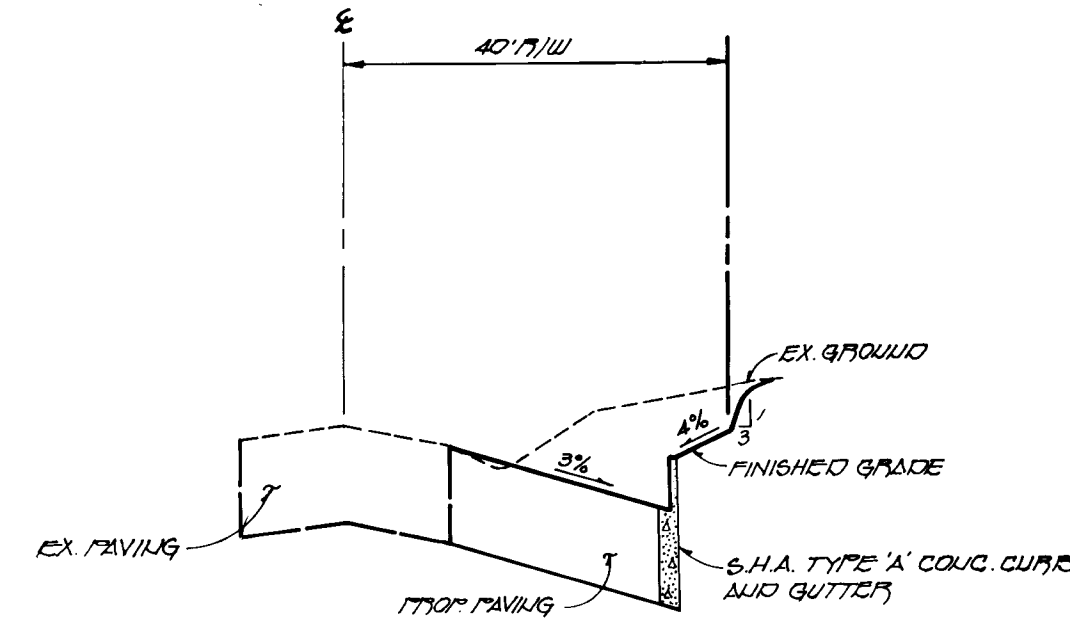
STA. 5+50 ELEV. 536



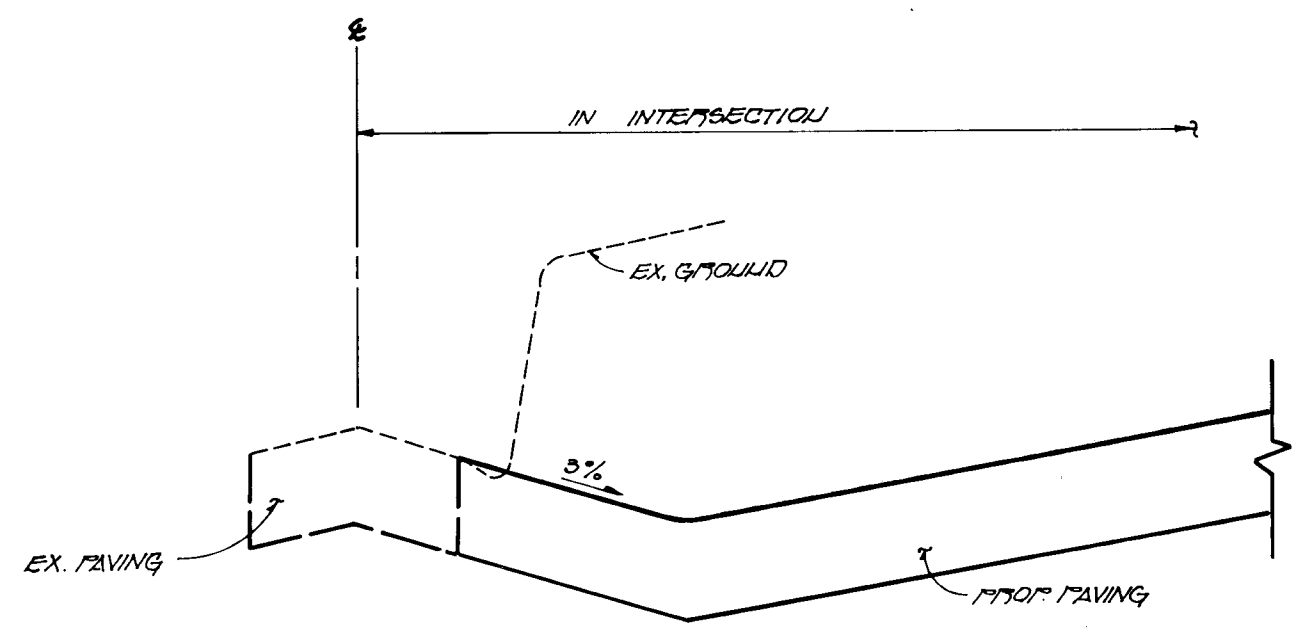
STA. 0+50 ELEV. 520



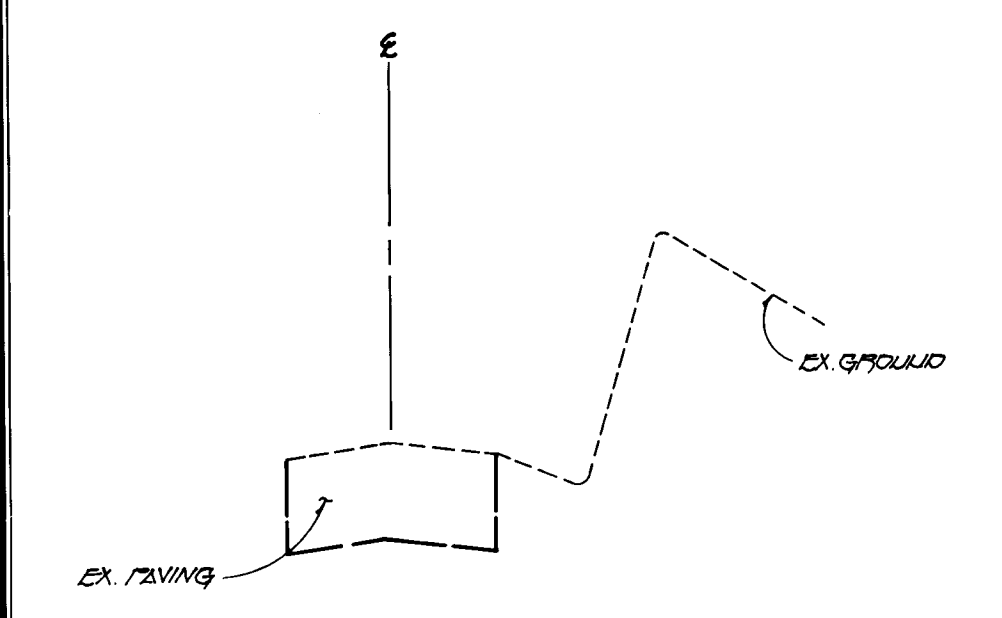
STA. 2+00 ELEV. 530



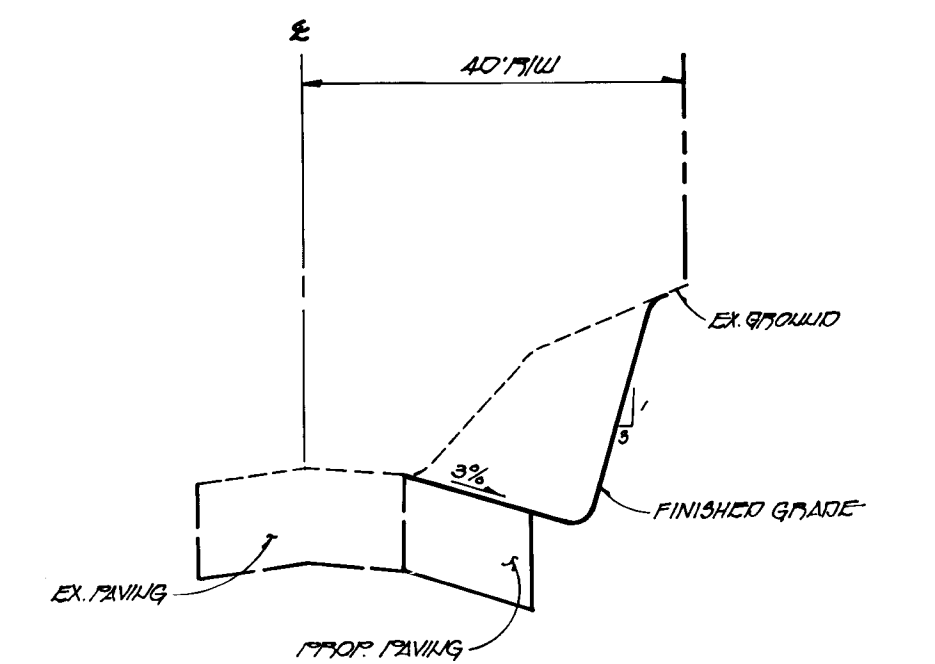
STA. 3+50 ELEV. 532



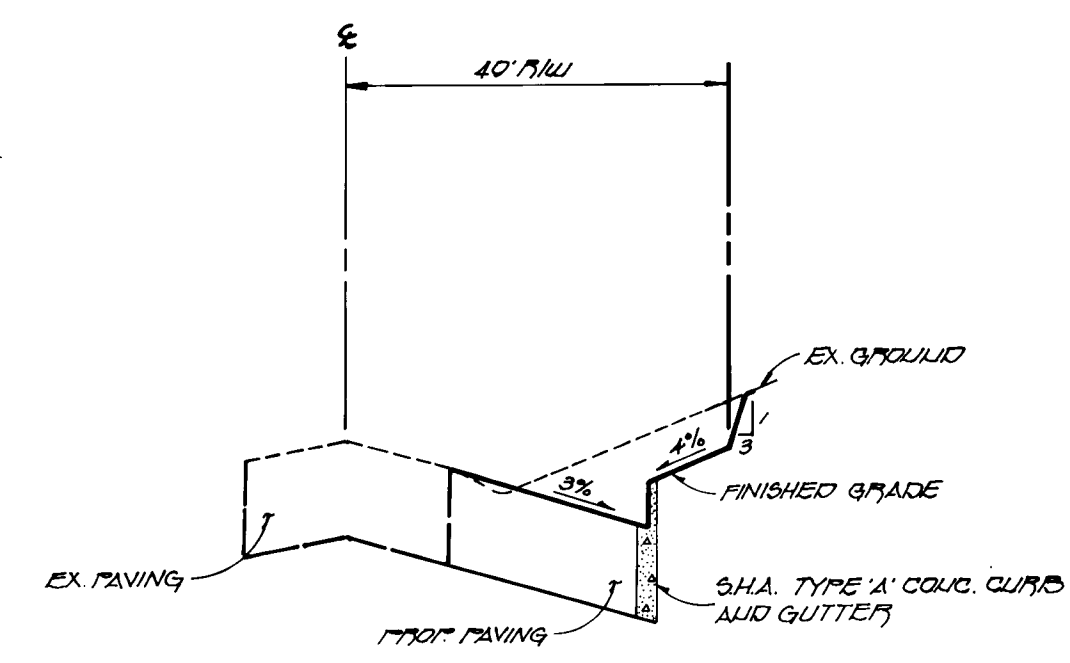
STA. 5+00 ELEV. 536



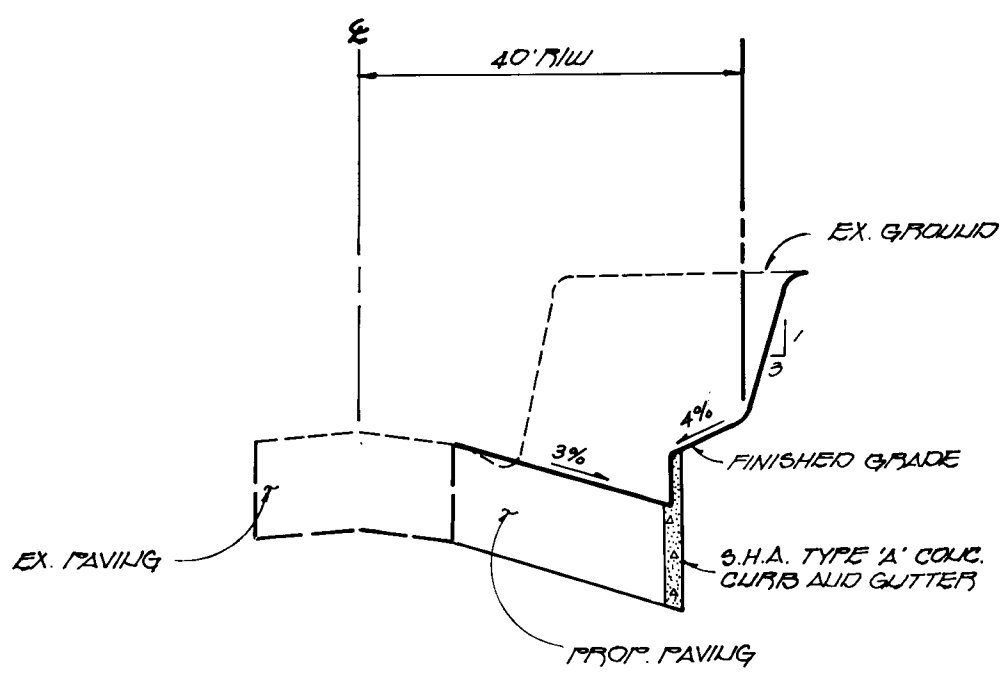
STA. 0+00 ELEV. 524



STA. 1+50 ELEV. 528



STA. 3+00 ELEV. 530



STA. 4+50 ELEV. 534

NOTE: SEE COVER SHEET FOR PAVING SECTIONS.

CROSS SECTIONS  
SCALE: 1" = 2' VERT.  
1" = 20' HORIZ.

CROSS SECTIONS OF EXISTING MD ROUTE 100  
PATERNAL GIFT FARM

**FISHER COLLINS & CARTER, INC.**  
CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS  
971 BALTIMORE NATIONAL TRUST BLDG. SUITE 100  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2655

OWNER  
DR. PETER C. SCHEIDT, TRUSTEE  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

DEVELOPER  
D. SUSAN SCHEIDT  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

TAX MAP LG 40 PARCEL 39, 170, 1360  
FIFTH ELECTION DISTRICT  
HARRISBURG COUNTY, MARYLAND  
DATE: DECEMBER 1, 1994  
SHEET 2 OF 25

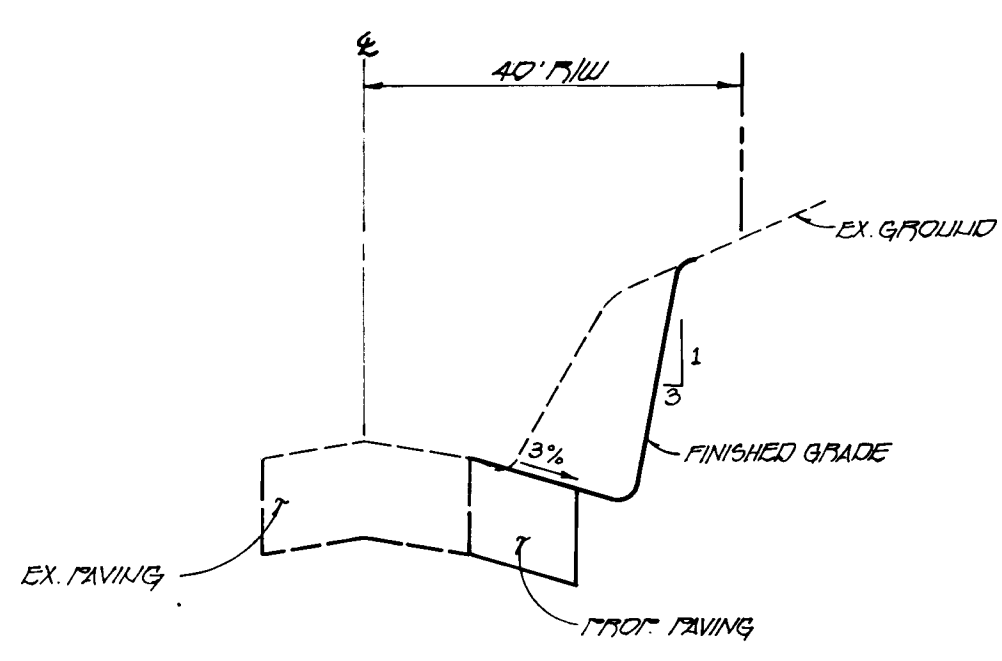
174-1

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Alfred Dammann* 7/14/95  
CHIEF, LAND DEVELOPMENT DIVISION DATE

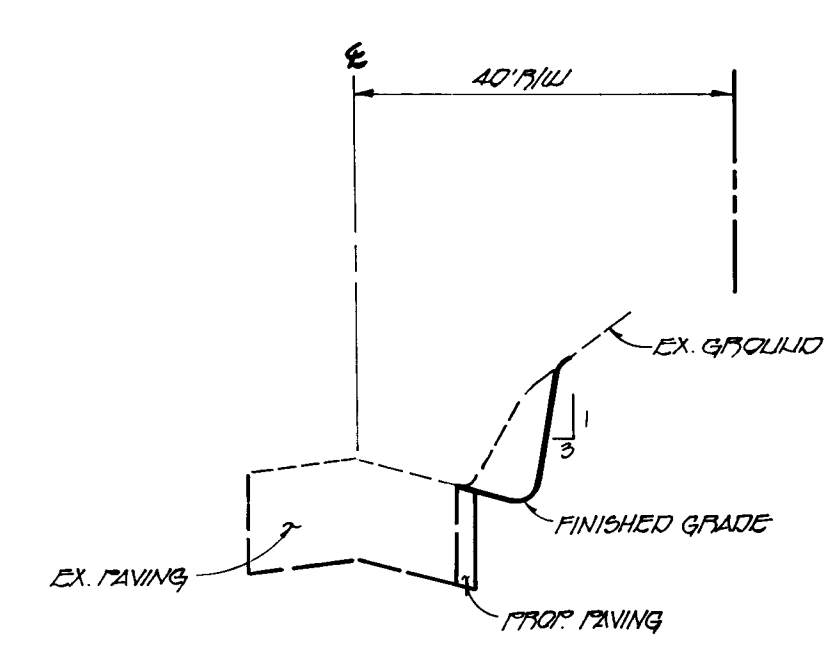
APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Andrew M. Daniels* 7-14-95  
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED  
DEPARTMENT OF PUBLIC WORKS  
*Richard J. Szymanski* 7/19/95  
CHIEF, BUREAU OF ENGINEERING DATE

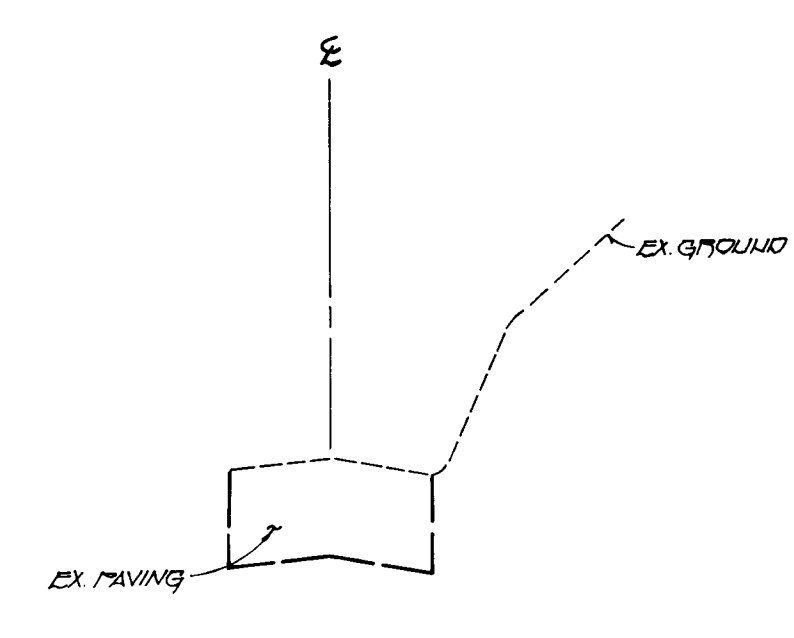
APPROVED  
DEPARTMENT OF PLANNING AND ZONING  
*Jim Zimmerman* 7/28/95  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE  
OH



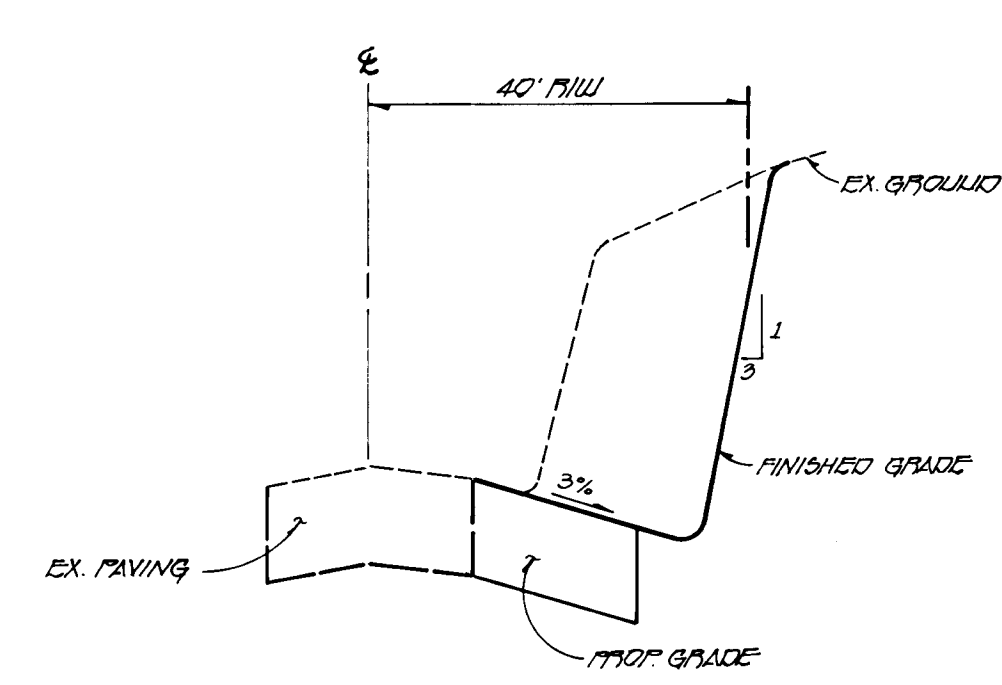
STA. 7+00 ELEV = 522



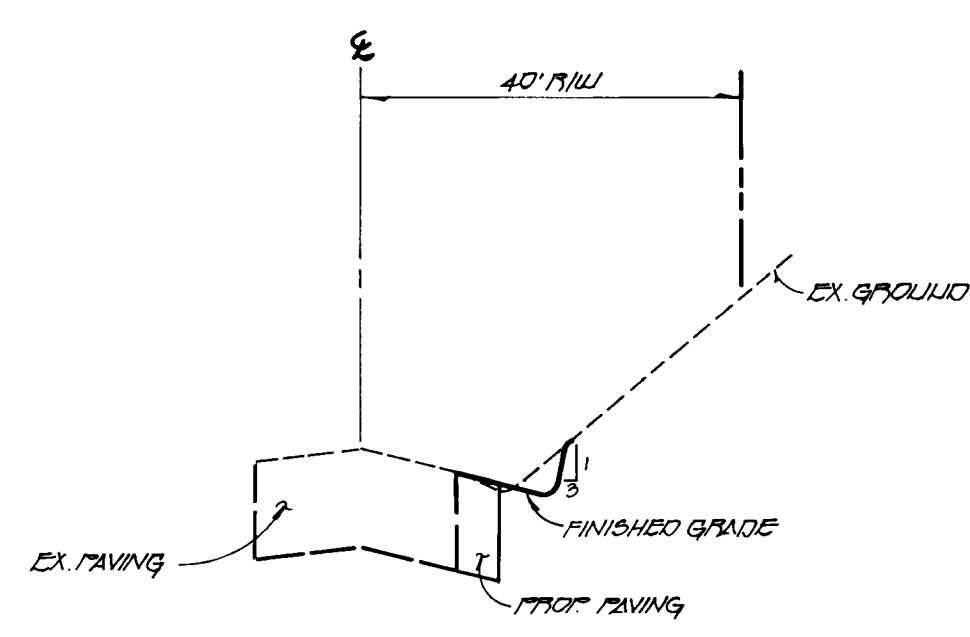
STA. 8+50 ELEV = 520



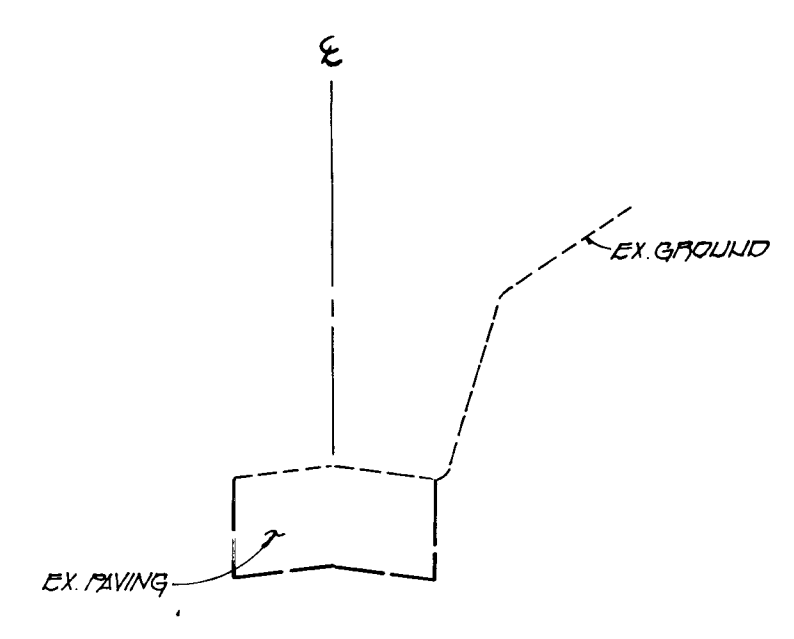
STA. 10+00 ELEV = 524



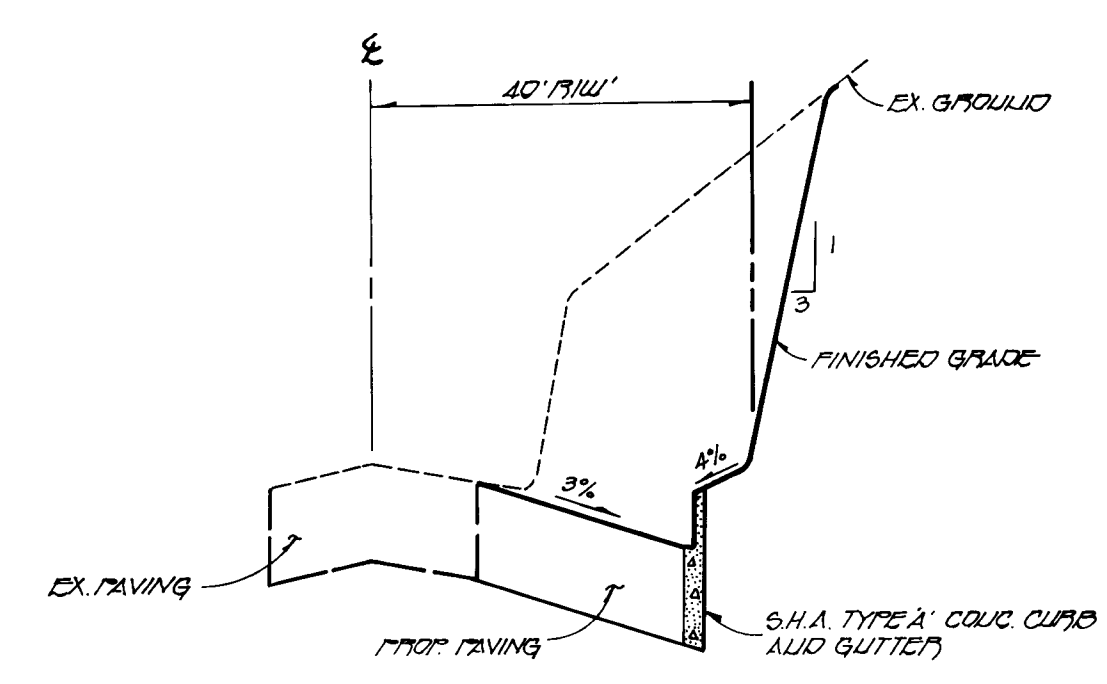
STA. 6+50 ELEV = 534



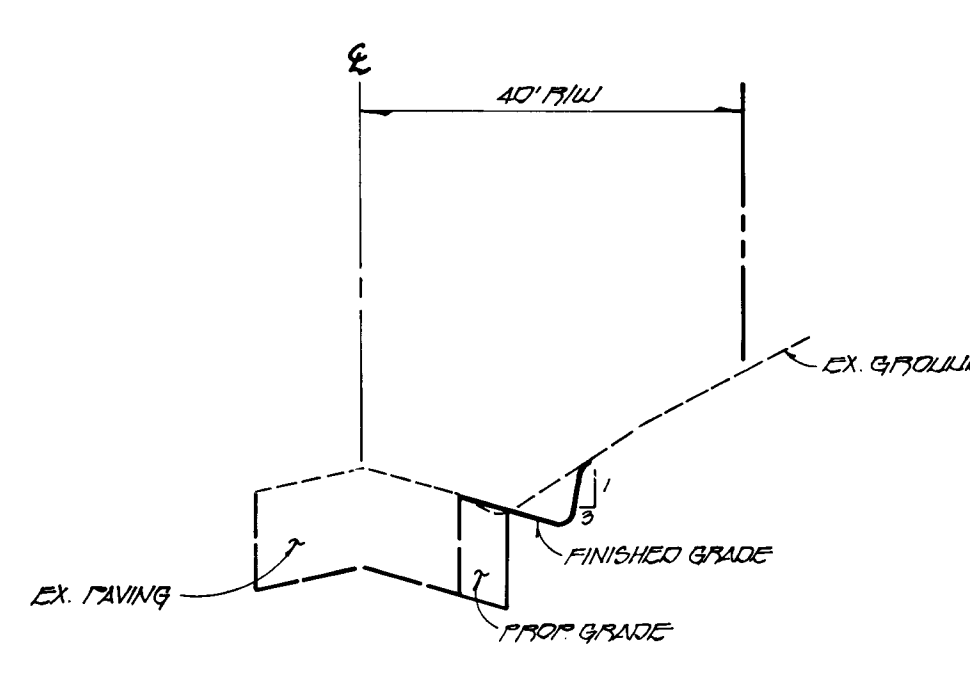
STA. 8+00 ELEV = 530



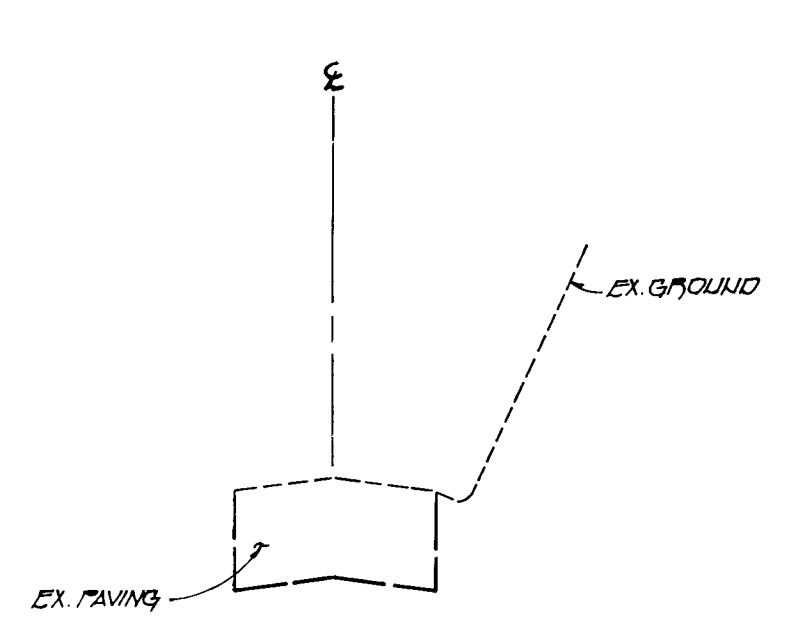
STA. 9+50 ELEV = 526



STA. 6+00 ELEV = 534



STA. 7+50 ELEV = 530



STA. 9+00 ELEV = 526

LIMIT OF WORKS

CROSS SECTION  
SCALE: 1" = 2' VERT  
1" = 20' HORIZ

NOTE: SEE COVER SHEET FOR PAVING SECTIONS

CROSS SECTIONS OF EXISTING MD. ROUTE 100  
PATERNAL GIFT FARM

**FISHER COLLINS & CARTER, INC.**  
CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS  
5711 BALTIMORE NATIONAL TRUST BUILDING, SUITE 100  
ELLICOTT CITY, MARYLAND 21042  
(410) 461-2855

**OWNER**  
DR. PETER C. SCHEIDT, TRUSTEE  
12780 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

**DEVELOPER**  
DR. SUSAN SCHEIDT  
12780 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777



TAX MAP 16.40 PARCEL 90.170.1360  
FIFTH ELECTION DISTRICT  
HOWLAND COUNTY, MARYLAND  
DATE: DECEMBER 1, 1994  
SHEET 3 OF 23

1741



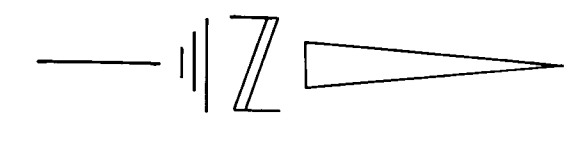
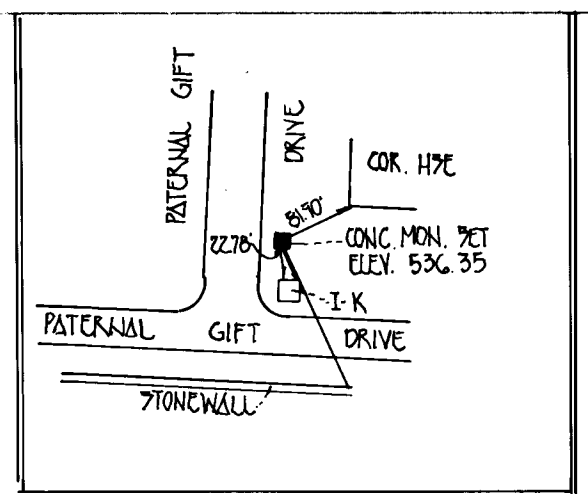
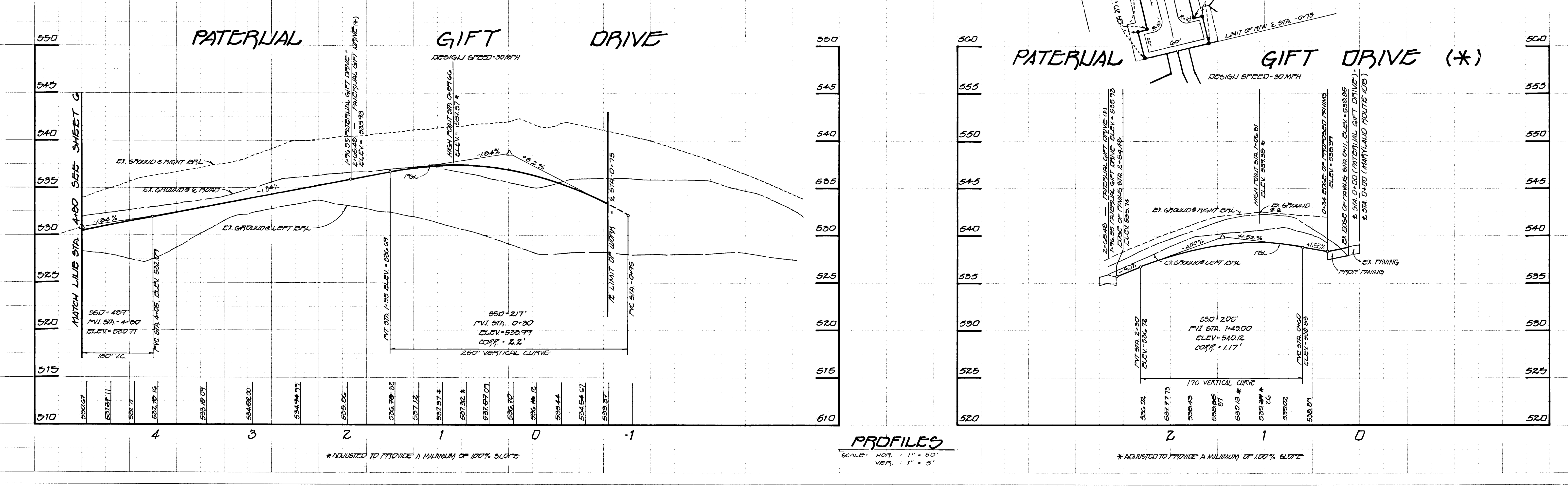


1741

DATE	BY

DATE	BY

1	CHANGED ROAD NAME	3/15/76
NO	REVISIONS	DATE
APPROVED:		
DEPARTMENT OF PUBLIC WORKS		
<i>John Daum</i>		7/19/95
<i>Andrew M. Danke</i>		7-19-95
APPROVED:		
DEPARTMENT OF PUBLIC WORKS		
<i>Robert J. Jenson</i>		7/19/95
APPROVED:		
DEPARTMENT OF PLANNING AND ZONING		
<i>Gina Swinnamy</i>		7/20/95



**PATERJUAL GIFT FARM**

TAX MAP 40 PARCELS 90, 179 & 269  
5TH ELECTICU DISTRICT  
HOWARD COUNTY, MD.

**PATERJUAL GIFT DRIVE**  
PLAN AND PROFILE  
BITER LAUE  
FLAU

**DWIVER**      **DEVELOPER**

DR. PETER C. SCHEIDT, TRUSTEE      DR. SUSAN SCHEIDT  
12750 HALL'S SHOP ROAD      12750 HALL'S SHOP RD  
HIGHLAND, MARYLAND 20777      HIGHLAND, MD 20777

SCALE AS SHOWN      DATE DEC 1994      SHEET NO. 5 OF 23  
DES. A.W.B.      DRN. J.C.L.      P.L. C.J.C.

FISHER COLLINS AND CARTER, INC.  
SURVEYING & ENGINEERING SERVICES  
9711 BALTO. WAT. PKY., SUITE 100, BALICOTT CITY, MD. 21042

* CURVE DATA		* CURVE DATA	
STA. 1+76.51 TO STA. 3+76.60	R = 250.00'	STA. 0+76.71 TO STA. 1+76.51	R = 250.00'
L = 180.09'	L = 179.83'	L = 179.83'	L = 179.83'
Δ = 08° 31' 07"	Δ = 41° 12' 51"	Δ = 41° 12' 51"	Δ = 41° 12' 51"
T = 50.27'	T = 94.15'	T = 94.15'	T = 94.15'

* CURVE DATA		* CURVE DATA	
STA. 5+70.16 TO STA. 6+70.52	R = 675.00'	STA. 4+45.37 TO STA. 5+70.16	R = 675.00'
L = 100.36'	L = 82.79'	L = 82.79'	L = 82.79'
Δ = 08° 31' 07"	Δ = 07° 01' 38"	Δ = 07° 01' 38"	Δ = 07° 01' 38"
T = 50.27'	T = 41.45'	T = 41.45'	T = 41.45'

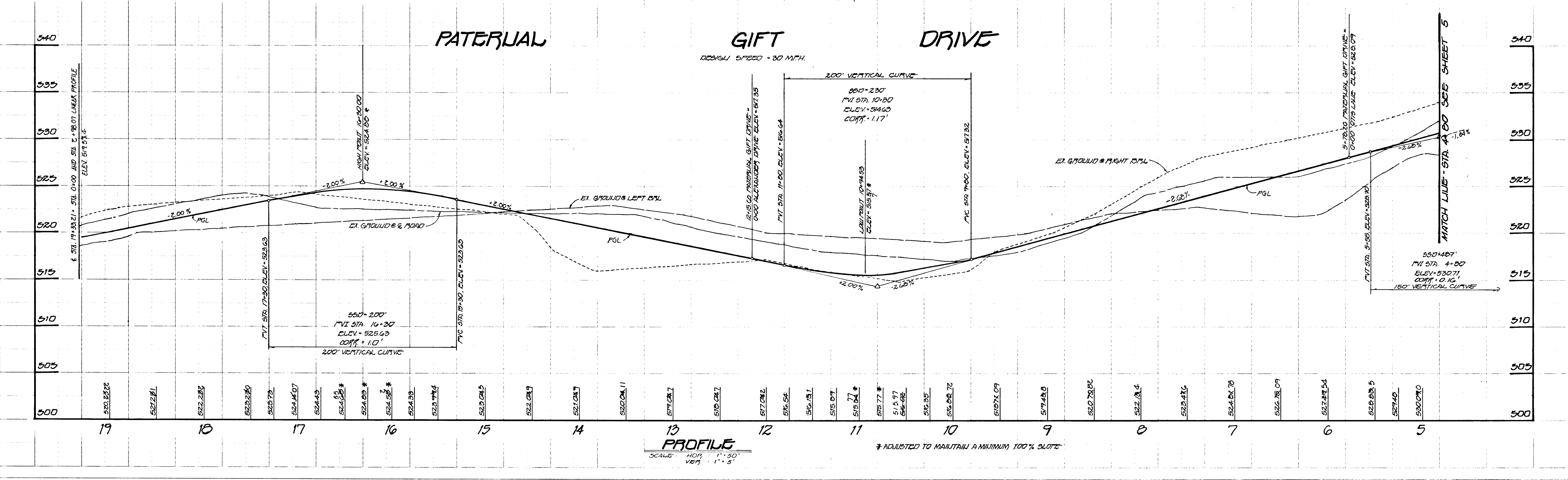
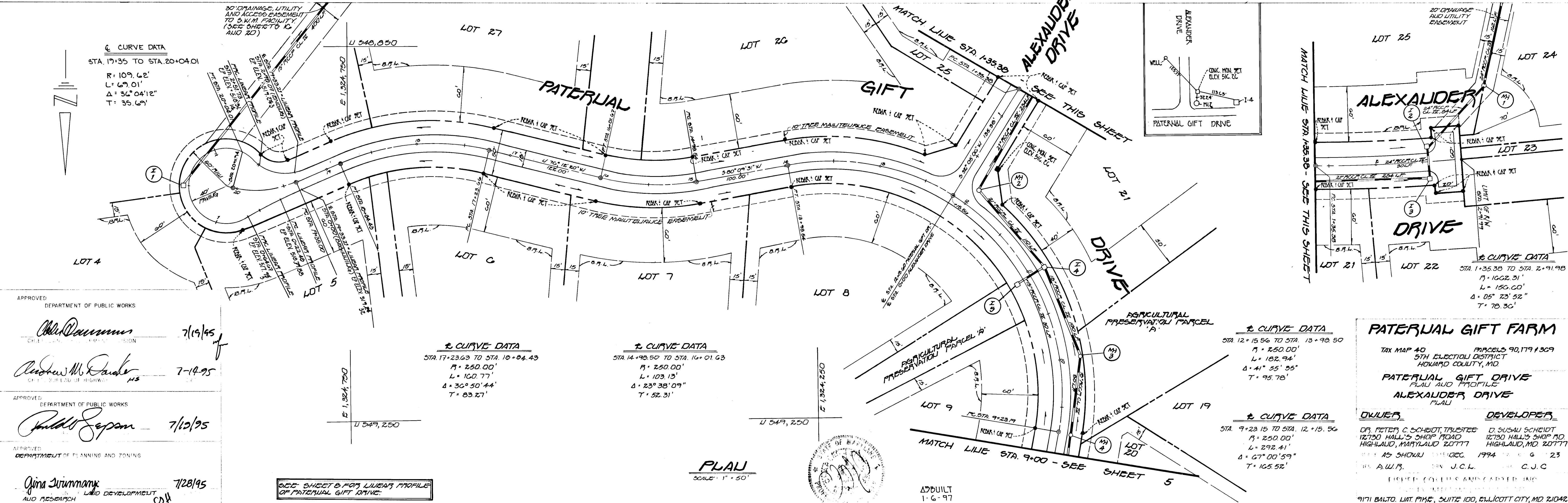
* CURVE DATA	
STA. 0+70.93 TO STA. 2+30.81	R = 140.00'
L = 139.88'	L = 139.88'
Δ = 57° 14' 30"	Δ = 57° 14' 30"
T = 76.41'	T = 76.41'

1741

DATE: 7/19/95  
BY: [Signature]  
NO. 19

DATE: 7/12/95  
BY: [Signature]  
NO. 18

DATE: 7/28/95  
BY: [Signature]  
NO. 17



**PATERJUAL GIFT FARM**

TAX MAP 40 PRINCES 90,179 + 309  
5TH ELECTION DISTRICT  
HOMARD COUNTY, MD

**PATERJUAL GIFT DRIVE**  
PLAU AND PROFILE  
**ALEXANDER DRIVE**  
PLAU

**OWNER:** DR. PETER C. SCHMIDT, TRUSTEE  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777  
A.U.B.

**DEVELOPER:** D. SUSAN SCHMIDT  
12730 HALL'S SHOP RD  
HIGHLAND, MD 20777  
J.C.C.

ENTERED COLLUS AND CARRIED INTO  
THE RECORDS OF THE COUNTY  
9717 BALTO. LAT. P.M.E., SUITE 100, BELLICOTT CITY, MD 21042



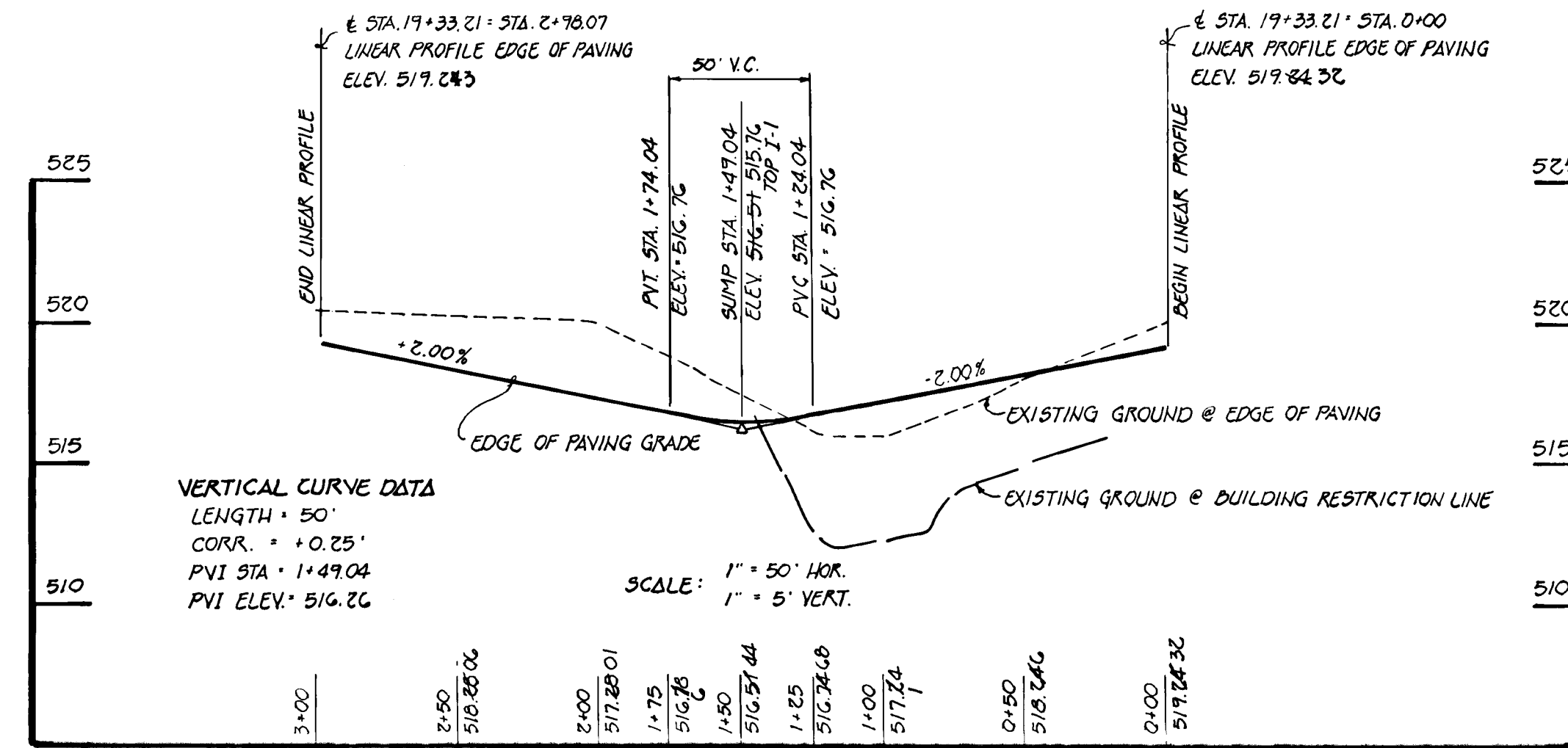


ROAD CHART				
NAME	CLASSIFICATION	DESIGN SPEED	PAVING TYPE	STATION LIMITS
PATERNAL GIFT DRIVE	LOCAL ROAD	30 M.P.H.	P.2	E. 0+00 TO E. 2+68+0
PATERNAL GIFT DRIVE	LOCAL ROAD	30 M.P.H.	P.2	E. 0+75 TO E. 7+33+21
BITER LANE	LOCAL ROAD	25 M.P.H.	P.2	E. 0+00 TO E. 3+74+71
ALEXANDER DRIVE	LOCAL ROAD	25 M.P.H.	P.2	E. 0+00 TO E. 2+91+79
PATERNAL GIFT DRIVE	CUL-DE-SAC	25 M.P.H.	P.2	L.P. 0+00 TO L.P. 2+98+07

# PATERNAL GIFT DRIVE

LINEAR PROFILE

DESIGN SPEED = 25 MPH.



## PATERNAL GIFT FARM

TAX MAP 40 PARCELS 90, 179, 180  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MD

ALEXANDER DRIVE, BITER LANE AND  
 PATERNAL GIFT DRIVE

CUL-DE-SAC PROFILES

**OWNER** DEVELOPER  
 OF PETER C. SCHEIDT TRUSTEE D. SCHEIDT  
 12780 HALL'S SHOP ROAD 12780 HALL'S SHOP RD  
 HIGHLAND, MARYLAND 20777 HIGHLAND, MD 20777  
 SURVEY AS SHOWN DEC. 1994  
 BY A.W.B. FOR J.C.L. BY C.J.C.



AS BUILT  
 1-6-97

17171 BALTO. LAT PIKE, SUITE 100, BELLICOTT CITY, MD 21048

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
 CHIEF, LAND DEVELOPMENT DIVISION  
 7/19/95

APPROVED  
 CHIEF, BUREAU OF HIGHWAYS  
 7-14-95

APPROVED  
 DEPARTMENT OF PUBLIC WORKS  
 CHIEF, JUDICIAL ENGINEERING  
 7/13/95

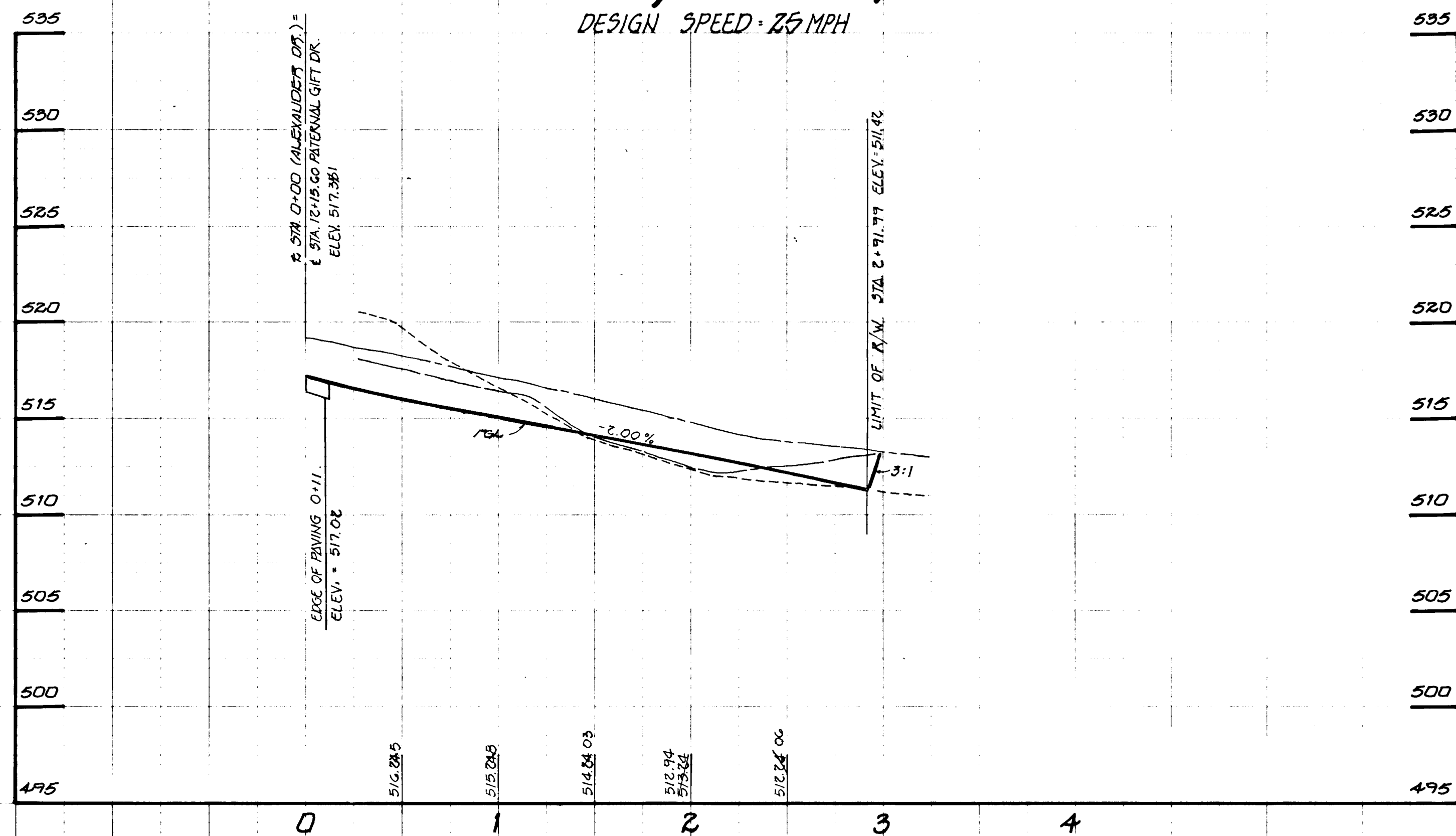
DEPARTMENT OF PLANNING AND ZONING

APPROVED  
 CHIEF, LAND DEVELOPMENT AND RESEARCH  
 7/28/95

NO	REVISIONS	DATE
1	CHANGE ROAD NAME	3/25/92

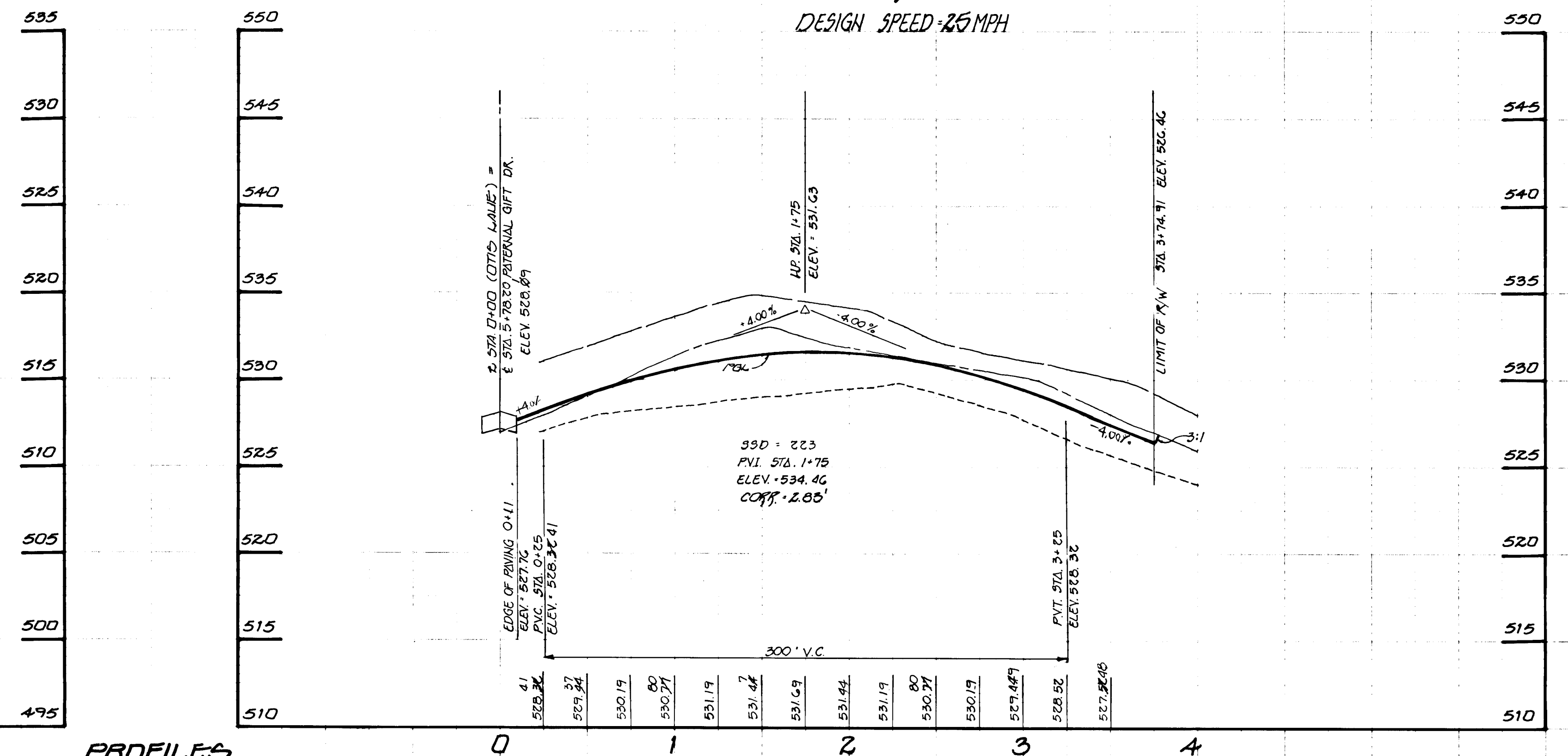
## ALEXANDER DRIVE

DESIGN SPEED = 25 MPH



## BITER LANE

DESIGN SPEED = 25 MPH

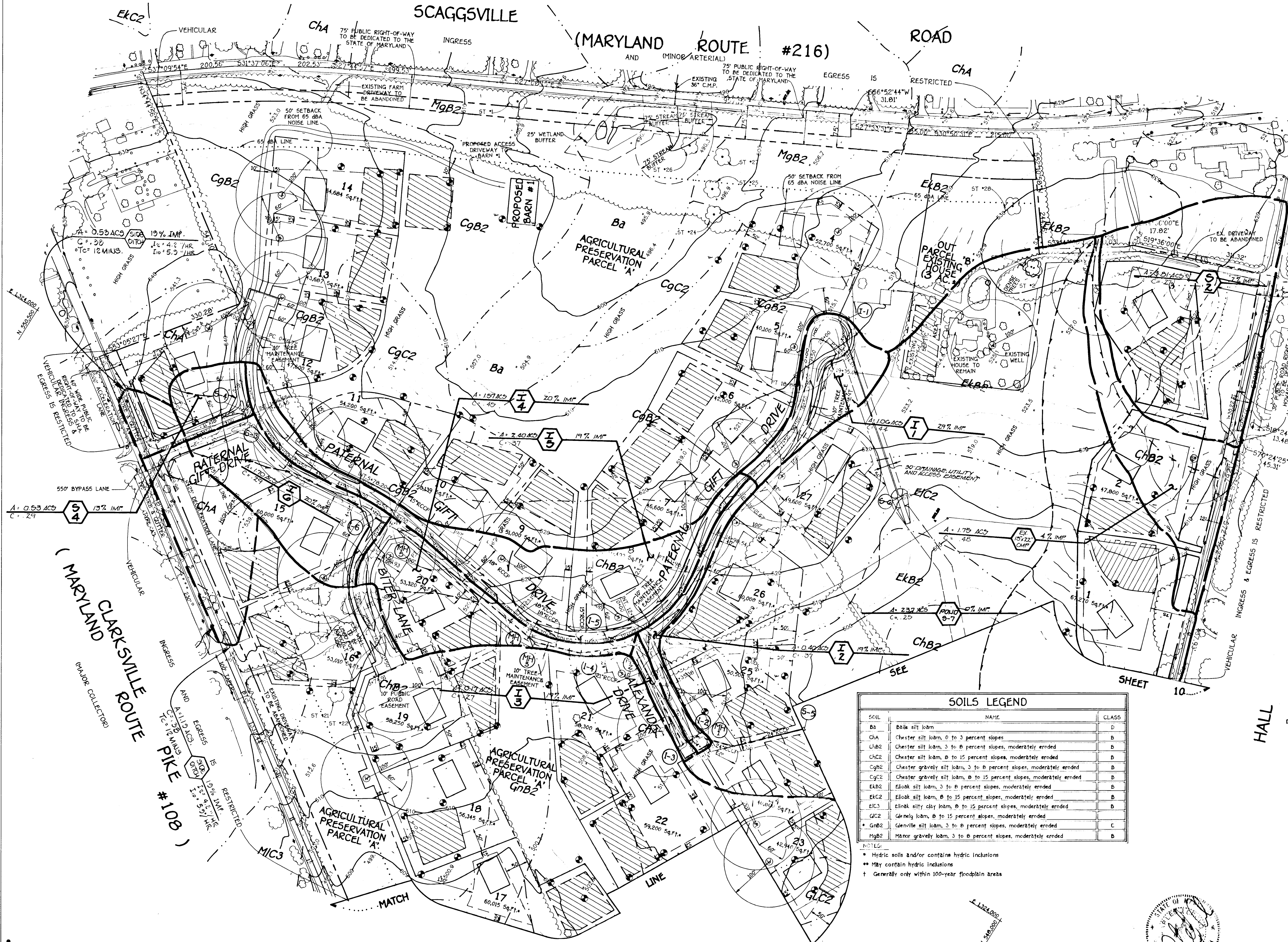


PROFILES  
 SCALE: HOR. 1" = 50'  
 VERT. 1" = 5'

PROFILE  
 DATE  
 BY  
 CHECKED  
 DATE  
 NO. 174-1



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Uma Summons 1/28/95  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
 DATE  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
John Daumier 7/19/95  
 CHIEF, PUBLIC UTILITIES DIVISION  
 DATE  
Richard M. Daniels 7-19-95  
 CHIEF, DIVISION OF HIGHWAYS  
 DATE  
Paul S. Sapon 7/19/95  
 CHIEF, BUREAU OF ENGINEERING  
 DATE



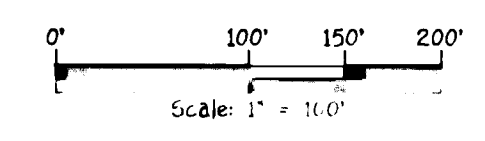
**SOILS LEGEND**

SOIL	NAME	CLASS
Ba	Belle silt loam	D
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
CgB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
CgC2	Chester gravelly silt loam, 8 to 15 percent slopes, moderately eroded	B
EkB2	Eloak silt loam, 3 to 8 percent slopes, moderately eroded	B
EhC2	Eloak silt loam, 8 to 15 percent slopes, moderately eroded	B
EhC3	Eloak silty clay loam, 8 to 15 percent slopes, moderately eroded	B
GhC2	Glenely loam, 8 to 15 percent slopes, moderately eroded	B
GnB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B

NOTES:  
 \* Hydric soils and/or contain hydric inclusions  
 \*\* May contain hydric inclusions  
 † Generally only within 100-year floodplain areas

**OWNER**  
 DR. PETER C. SCHRETT, TRUSTEE  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

**DEVELOPER**  
 D. SUGAN SCHRETT  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777



STORM DRAIN DRAINAGE AREA MAP  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: DECEMBER 16, 1994  
 SCALE: AS SHOWN  
 SHEET 9 OF 23

NO.	REVISIONS	DATE
1	REVISED LOTS 1, 2, AND 3 CHANGED STREET NAME	9/15/94

**FISHER, COLLINS & CARTER, INC.**  
 ENGINEERS AND SURVEYORS  
 971 BALTIMORE NATIONAL PIKE, SUITE 100  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2855



174



APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Olga Wimmery* 7/28/95  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*Robert D. ...* 7/19/95  
CHIEF, BUREAU OF HIGHWAYS DATE

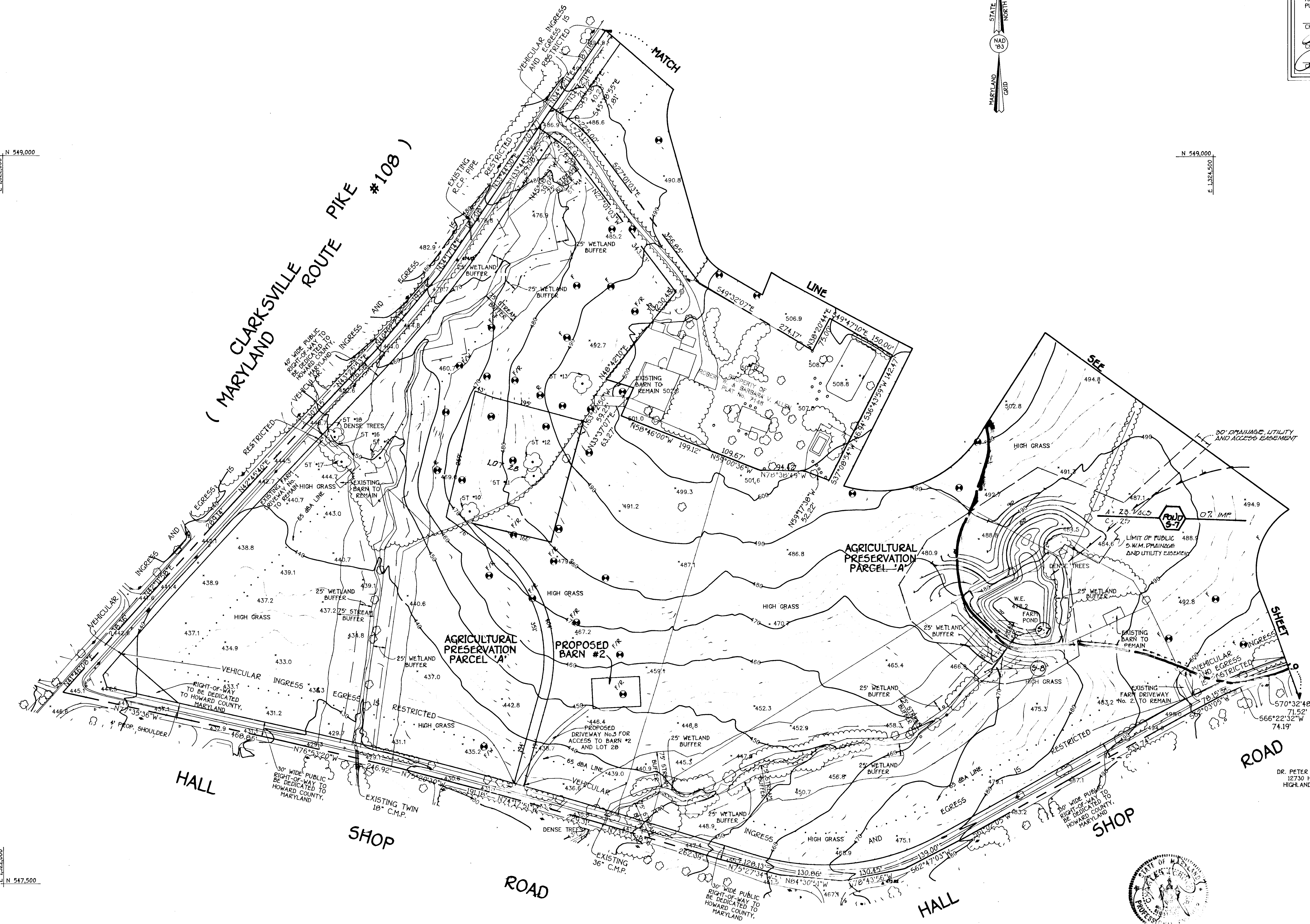
*Richard ...* 7/19/95  
CHIEF, BUREAU OF ENGINEERING DATE



N 549,000  
E 1,322,000

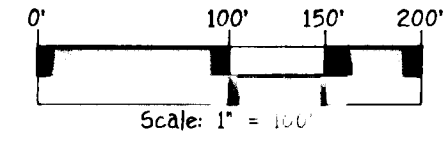
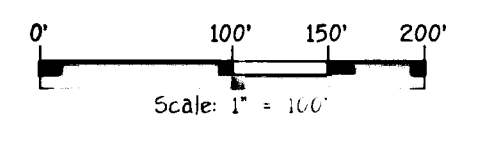
N 549,000  
E 1,322,500

N 547,500  
E 1,322,000



**OWNER**  
DR. PETER C. SCHEIDT, TRUSTEE  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

**DEVELOPER**  
D. SUGAN SCHEIDT  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777



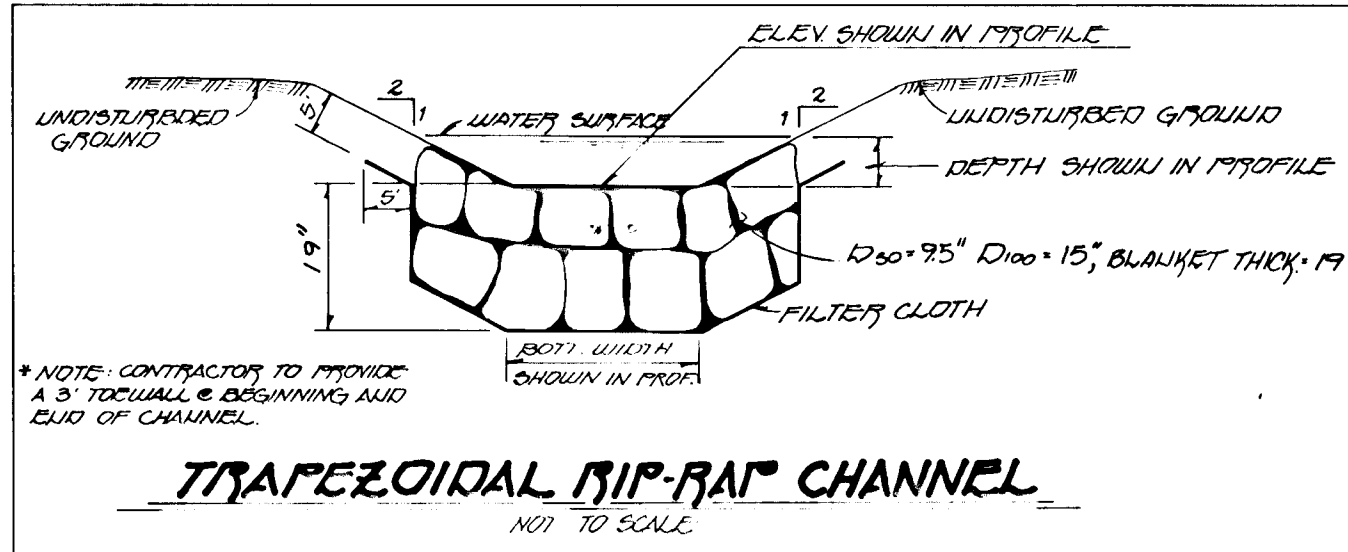
STORM DRAIN  
DRAINAGE AREA MAP

**PATERNAL GIFT FARM**  
TAX MAP No. 40 PARCELS 90, 179 AND 369  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
DATE: DECEMBER 2, 1994  
SCALE: AS SHOWN  
SHEET 10 OF 23

NO.	REVISIONS	DATE
1	ADDED LOT 28 DELETED PARCEL C	3/18/95

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING, SURVEYING & LAND SURVEYORS  
9701 BALTIMORE NATIONAL PIKE, SUITE 100  
ELLICOTT CITY, MARYLAND 21042  
(410) 461-2855

1741

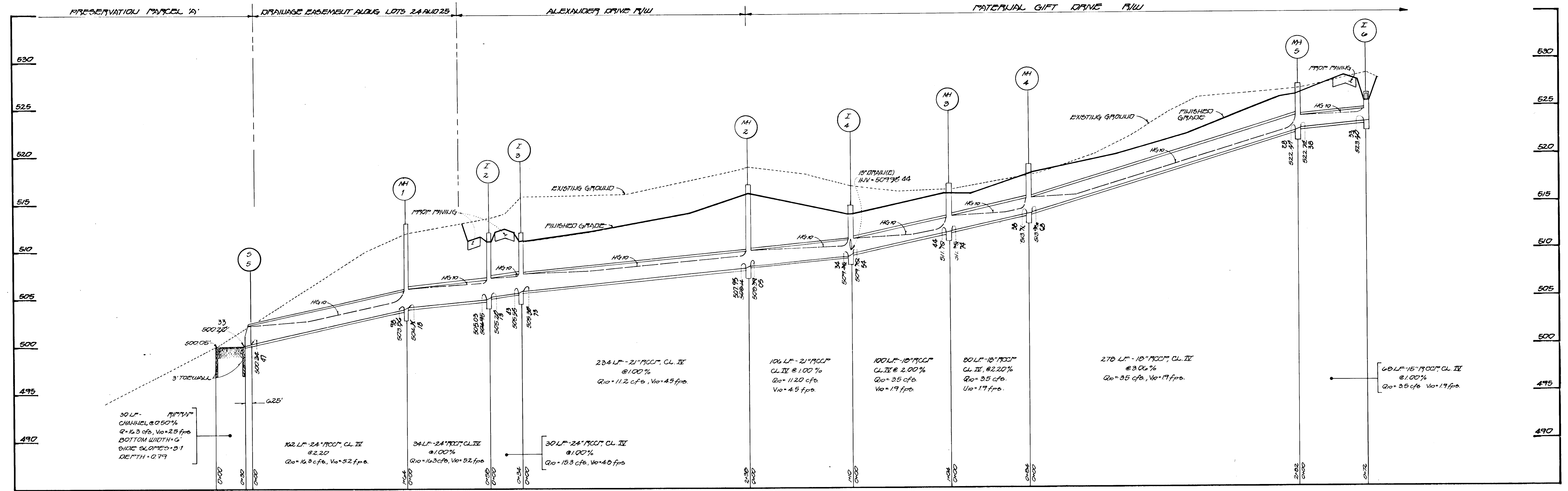
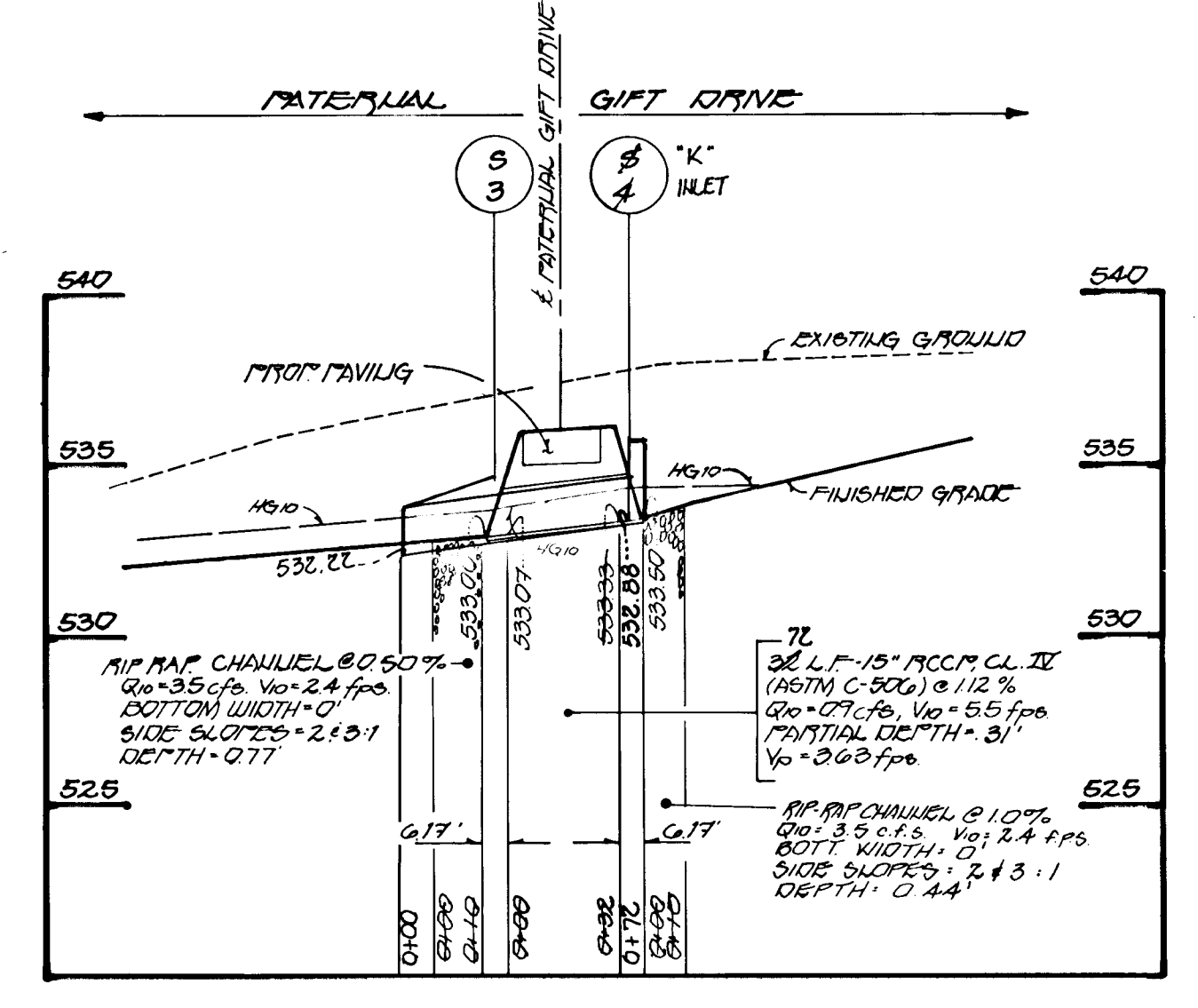
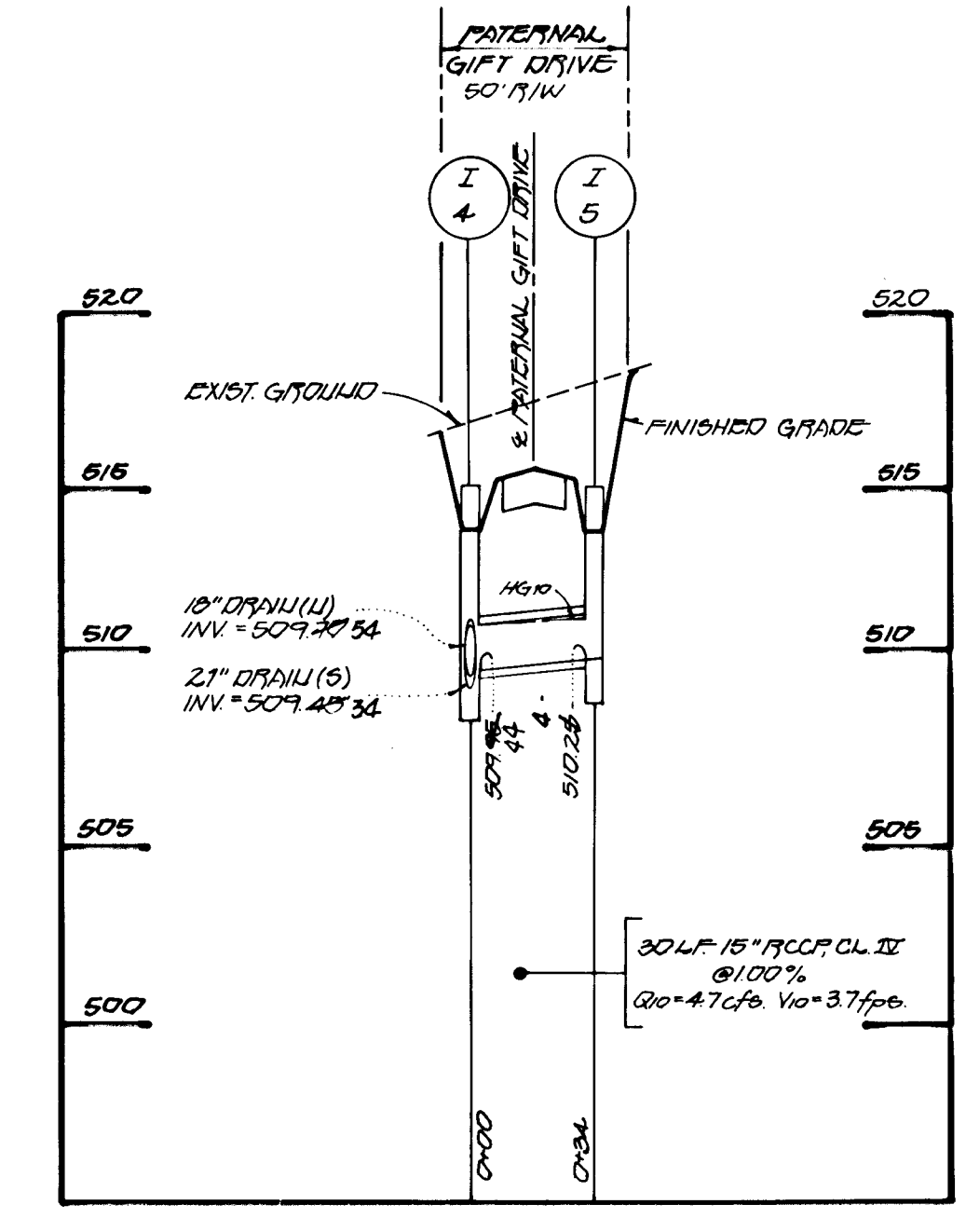
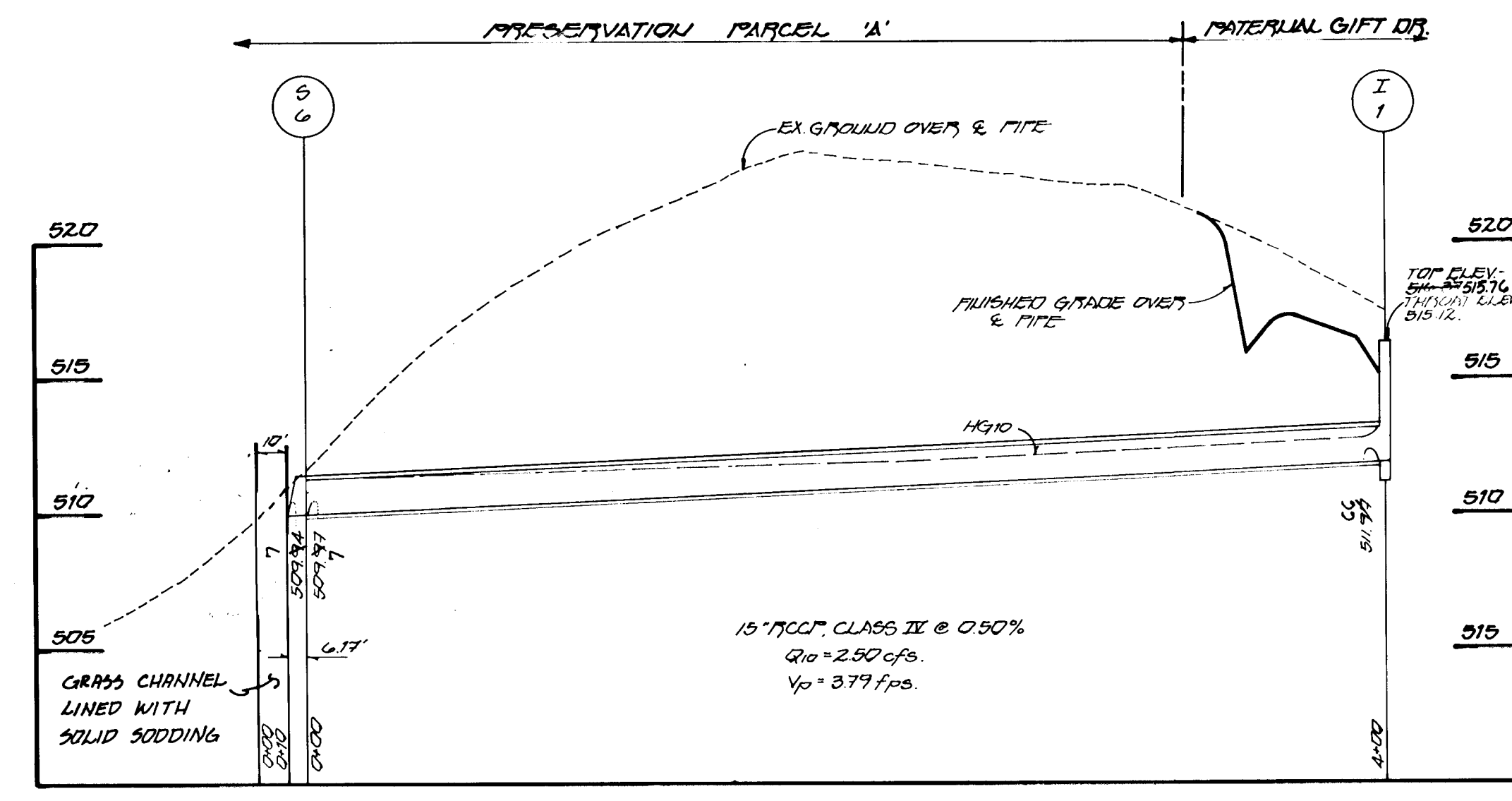


**RIP-RAP CHANNEL VELOCITIES**

STRUCT. NO.	PIPE SIZE	Q CFS	'n'	CHAN. SLOPE	BOTTOM WIDTH	SIDE SLOPE	PIPE VEL.	FLOW DEPTH	CHAN. VEL	RIPRAP d50	RIPRAP dMAX.
S-3	15"	0.9	.05	1.7%	0'	2&3:1	5.5	.50'	1.5	9.5"	15"
S-4	15"	0.9	.05	3.1%	0'	2&3:1	5.5	.44'	1.8	9.5"	15"
S-5	24"	16.3	.05	.5%	6'	3:1	2.5	1.03'	1.7	9.5"	15"

**TRAPEZOIDAL RIP-RAP CHANNEL**  
NOT TO SCALE

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
**Chris Summons** 7/28/95  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
**John Dorman** 7/19/95  
 CHIEF, BUREAU OF HIGHWAYS  
**Andrew M. Daniels** 7-19-95  
 CHIEF, BUREAU OF HIGHWAYS  
**Paul S. Eason** 7/19/95  
 CHIEF, BUREAU OF HIGHWAYS



**PROFILES**

SCALE: 1" = 50' VERT  
1" = 5' HORIZ

AS BUILT  
1-6-97

FISHER, COLLINS & CARTER, INC.

OWNER  
DR. PETER C. SCHUBERT, TRUSTEE  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

DEVELOPER  
J. KEVIN SCHUBERT  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

NO.	REVISIONS	DATE
1	REVISED PROFILES 5-6	3/18/96
	REVISIONS	

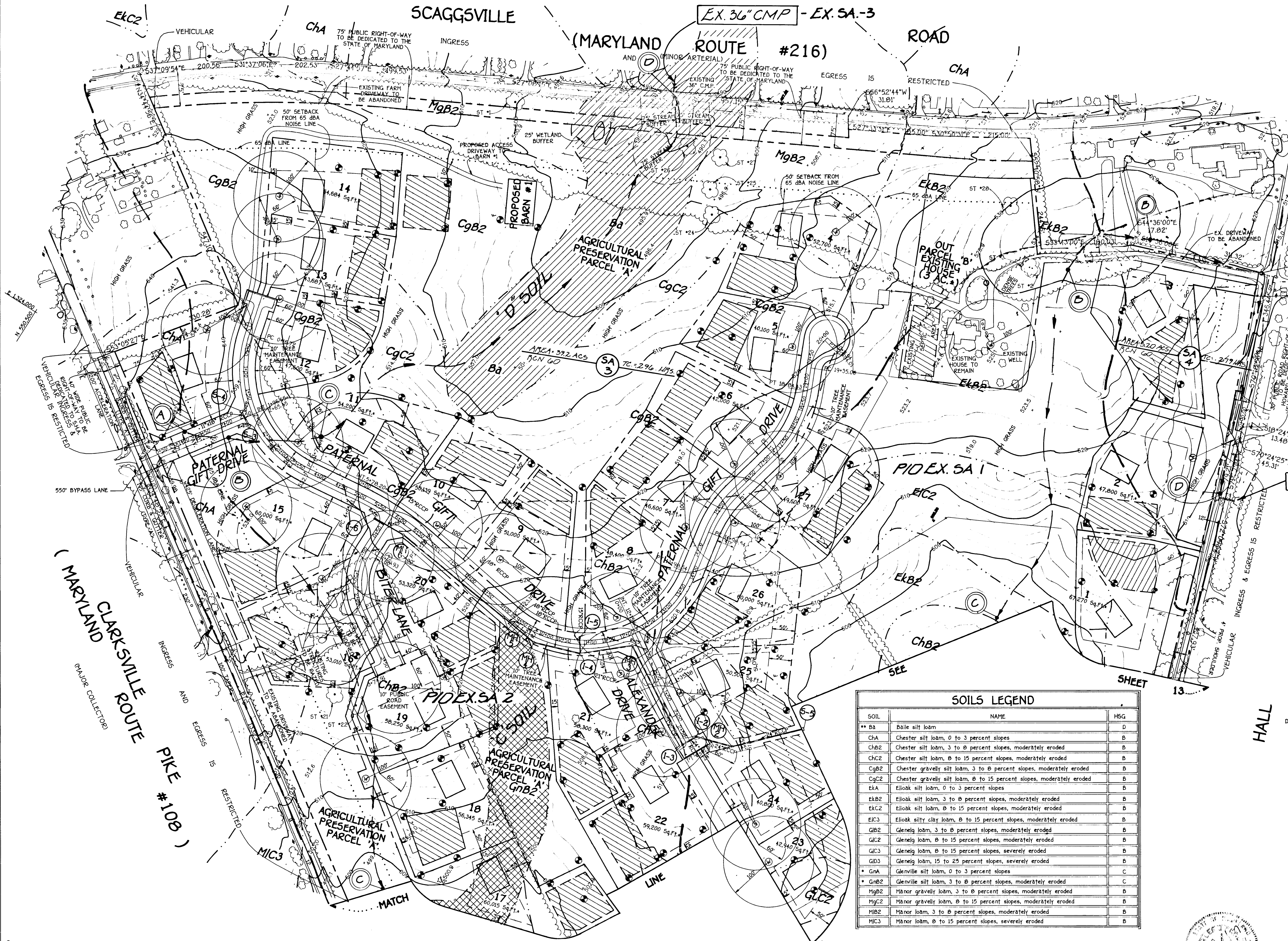


STORM DRAIN PROFILES  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: DECEMBER 2, 1994  
 SCALE: AS SHOWN  
 SHEET 11 OF 23

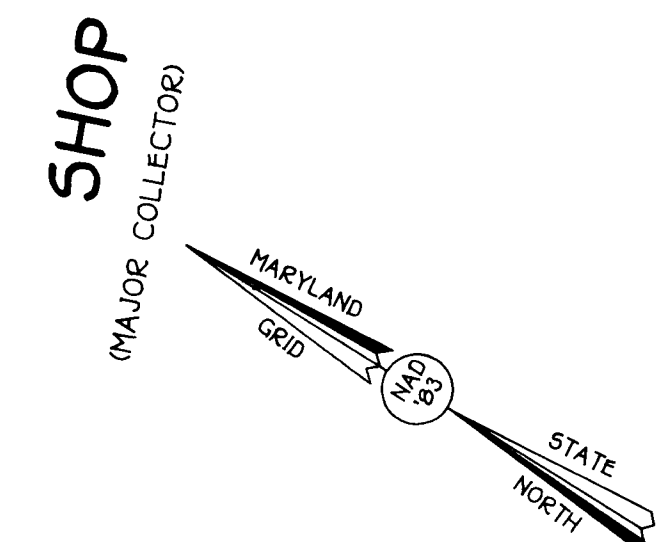
1741



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*Uma Swannage* 7/28/95  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Chris Damann* 7/19/95  
 CHIEF, LAND DEVELOPMENT DIVISION  
*Andrew M. Daniels* 7-19-95  
 CHIEF, BUREAU OF HIGHWAYS  
*John L. Sporn* 7/19/95  
 CHIEF, BUREAU OF ENGINEERING



EX. 22' X 13' CMPA - EX. SA-4



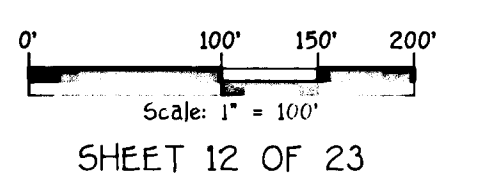
SOIL	NAME	HSG
** Ba	Baile silt loam	D
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
CgB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
CgC2	Chester gravelly silt loam, 8 to 15 percent slopes, moderately eroded	B
EKA	Eliok silt loam, 0 to 3 percent slopes	B
EkB2	Eliok silt loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Eliok silt loam, 8 to 15 percent slopes, moderately eroded	B
EKC3	Eliok silty clay loam, 8 to 15 percent slopes, moderately eroded	B
GIB2	Glenns loam, 3 to 8 percent slopes, moderately eroded	B
GlC2	Glenns loam, 8 to 15 percent slopes, moderately eroded	B
GlC3	Glenns loam, 8 to 15 percent slopes, severely eroded	B
GlD3	Glenns loam, 15 to 25 percent slopes, severely eroded	B
GnA	Glennville silt loam, 0 to 3 percent slopes	C
GnB2	Glennville silt loam, 3 to 8 percent slopes, moderately eroded	C
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B
MgC2	Manor gravelly loam, 8 to 15 percent slopes, moderately eroded	B
MIB2	Manor loam, 3 to 8 percent slopes, moderately eroded	B
MIC3	Manor loam, 8 to 15 percent slopes, severely eroded	B

NOTES:  
 \* Hydric soils and/or contains hydric inclusions  
 \*\* May contain hydric inclusions  
 † Generally only within 100-year floodplain areas

OWNER  
 DR. PETER C. SCHEIDT, TRUSTEE  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

DEVELOPER  
 D. SUSAN SCHEIDT  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

STORM WATER MANAGEMENT  
 DRAINAGE AREA MAP  
 (EXISTING CONDITIONS)  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: MARCH 27, 1995



No.	REVISIONS	DATE
1	CHANGED ROAD NAME AND LOT 1, 2, AND 3	3/15/96

FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 971 BALTIMORE NATIONAL PIKE, SUITE 100  
 ELK COTT CITY, MARYLAND 21042  
 (410) 461-2855

1741



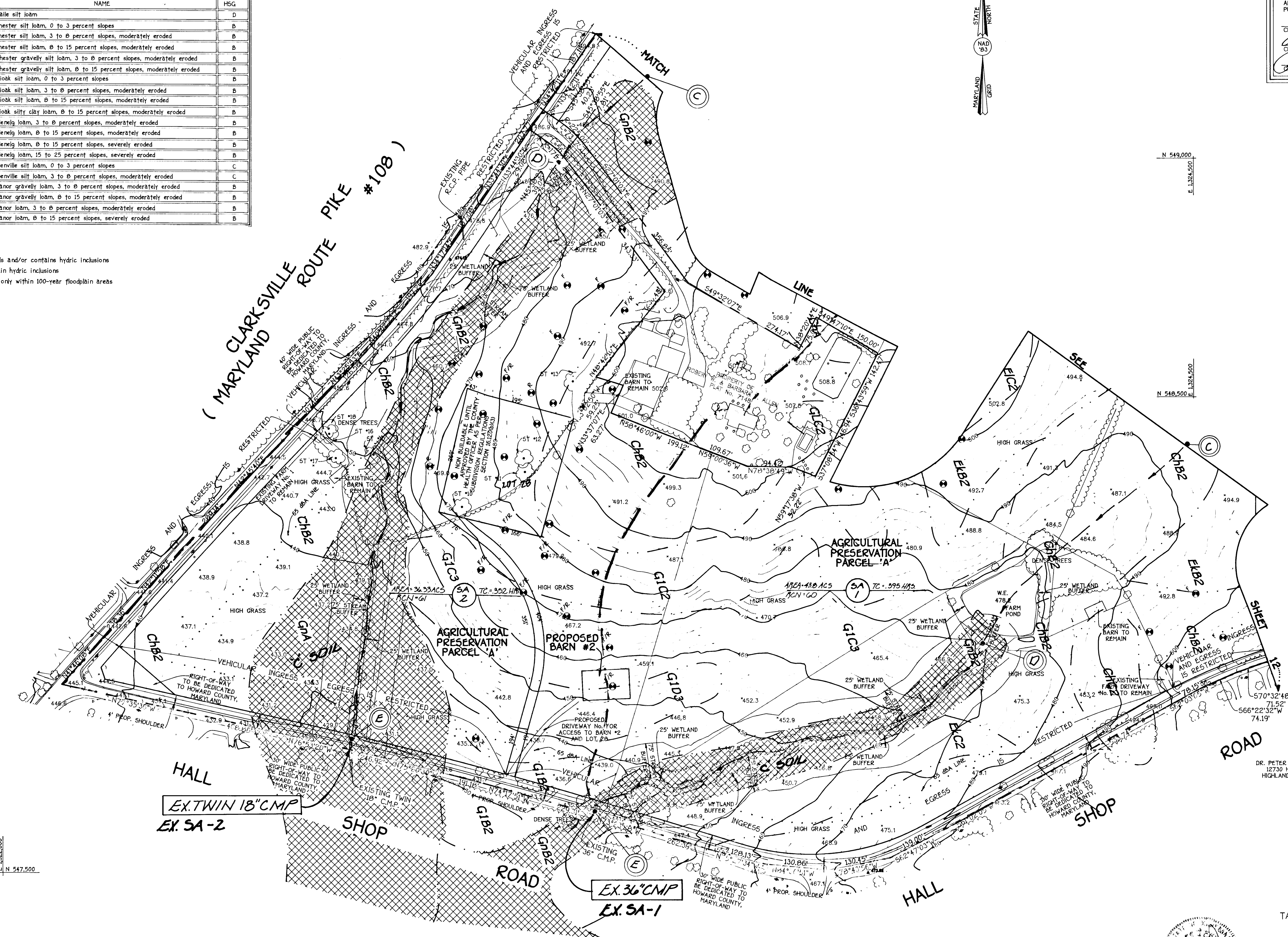
*Anna Sworman* 7/28/95  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
 DATE

*Richard M. Daniels* 7-19-95  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

*Paul D. Ryan* 7/19/95  
 CHIEF, BUREAU OF ENGINEERING  
 DATE

SOILS LEGEND		
SOIL	NAME	HSG
** Ba	Baile silt loam	D
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
CgB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
CgC2	Chester gravelly silt loam, 8 to 15 percent slopes, moderately eroded	B
EkA	Elioak silt loam, 0 to 3 percent slopes	B
EkB2	Elioak silt loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Elioak silt loam, 8 to 15 percent slopes, moderately eroded	B
EkC3	Elioak silty clay loam, 8 to 15 percent slopes, moderately eroded	B
GIB2	Glenn loam, 3 to 8 percent slopes, moderately eroded	B
GIC2	Glenn loam, 8 to 15 percent slopes, moderately eroded	B
GIC3	Glenn loam, 8 to 15 percent slopes, severely eroded	B
GID3	Glenn loam, 15 to 25 percent slopes, severely eroded	B
GnA	Glenville silt loam, 0 to 3 percent slopes	C
GnB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B
MgC2	Manor gravelly loam, 8 to 15 percent slopes, moderately eroded	B
MIB2	Manor loam, 3 to 8 percent slopes, moderately eroded	B
MIC3	Manor loam, 8 to 15 percent slopes, severely eroded	B

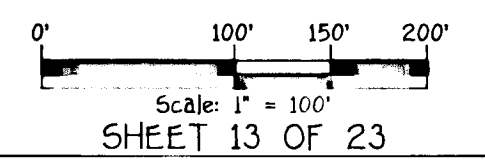
NOTES:  
 \* Hydric soils and/or contains hydric inclusions  
 \*\* May contain hydric inclusions  
 † Generally only within 100-year floodplain areas



**OWNER**  
 DR. PETER C. SCHEIDT, TRUSTEE  
 12730 HALL'S SHOP ROAD  
 HOWLAND, MARYLAND 20777

**DEVELOPER**  
 D. SUGAN SCHEIDT  
 12730 HALL'S SHOP ROAD  
 HOWLAND, MARYLAND 20777

STORM WATER MANAGEMENT  
 DRAINAGE AREA MAP  
 (EXISTING CONDITIONS)  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: MARCH 27, 1995



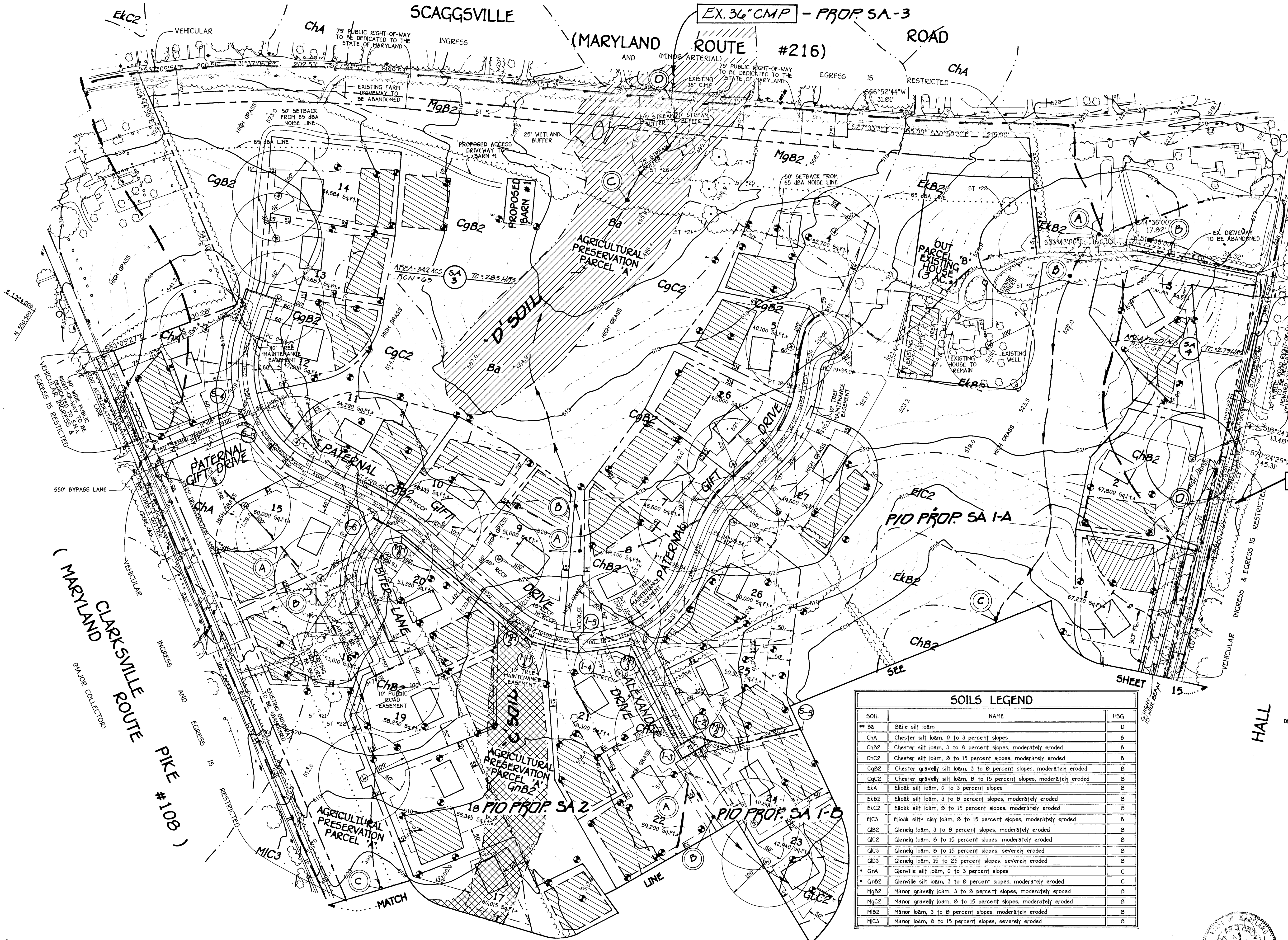
1	ADDED LOT 28 DELETED PARCEL C	3/18/95
NO	REVISIONS	DATE

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 9771 BALTIMORE NATIONAL PIKE, SUITE 100  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2855

1741



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
**Jim Simmons** 7/28/95  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
**Chris M. Buckle** 7/18/95  
 CHIEF, BUREAU OF HIGHWAYS  
**William S. Sporn** 7/13/95  
 CHIEF, BUREAU OF ENGINEERING



EX. 22" X 13" CMPA - PROP. SA. 4

EX. 36" CMP - PROP. SA. 3

SOIL	NAME	HSG
**Ba	Baile silt loam	D
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
CgB2	Chester gravelly silt loam, 3 to 8 percent slopes, moderately eroded	B
CgC2	Chester gravelly silt loam, 8 to 15 percent slopes, moderately eroded	B
EKA	Eliok silt loam, 0 to 3 percent slopes	B
EKB2	Eliok silt loam, 3 to 8 percent slopes, moderately eroded	B
EKC2	Eliok silt loam, 8 to 15 percent slopes, moderately eroded	B
EIC3	Eliok silty clay loam, 8 to 15 percent slopes, moderately eroded	B
GB2	Glenns loam, 3 to 8 percent slopes, moderately eroded	B
GC2	Glenns loam, 8 to 15 percent slopes, moderately eroded	B
GIC3	Glenns loam, 8 to 15 percent slopes, severely eroded	B
GID3	Glenns loam, 15 to 25 percent slopes, severely eroded	B
*GrA	Glennville silt loam, 0 to 3 percent slopes	C
*GrB2	Glennville silt loam, 3 to 8 percent slopes, moderately eroded	C
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B
MgC2	Manor gravelly loam, 8 to 15 percent slopes, moderately eroded	B
MB2	Manor loam, 3 to 8 percent slopes, moderately eroded	B
MIC3	Manor loam, 8 to 15 percent slopes, severely eroded	B

NOTES:  
 \* Hydric soils and/or contains hydric inclusions  
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 † Generally only within 100-year floodplain areas

OWNER  
 DR. PETER C. SCHEIDT, TRUSTEE  
 12730 HALLS SHOP ROAD  
 HIGHLAND, MARYLAND 20777

DEVELOPER  
 D. SUSAN SCHEIDT  
 12730 HALLS SHOP ROAD  
 HIGHLAND, MARYLAND 20777

STORM WATER MANAGEMENT DRAINAGE AREA MAP (PROPOSED CONDITIONS)  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: MARCH 27, 1995

Scale: 1" = 100'  
 SHEET 14 OF 23

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 971 BALTIMORE NATIONAL PIKE, SUITE 100  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 461-2955

NO.	REVISIONS	DATE
1	CHANGED STREET NAME & REVISED LOTS 179	3/15/95

1741



*Gina Swinney* 7/28/95  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
 DATE

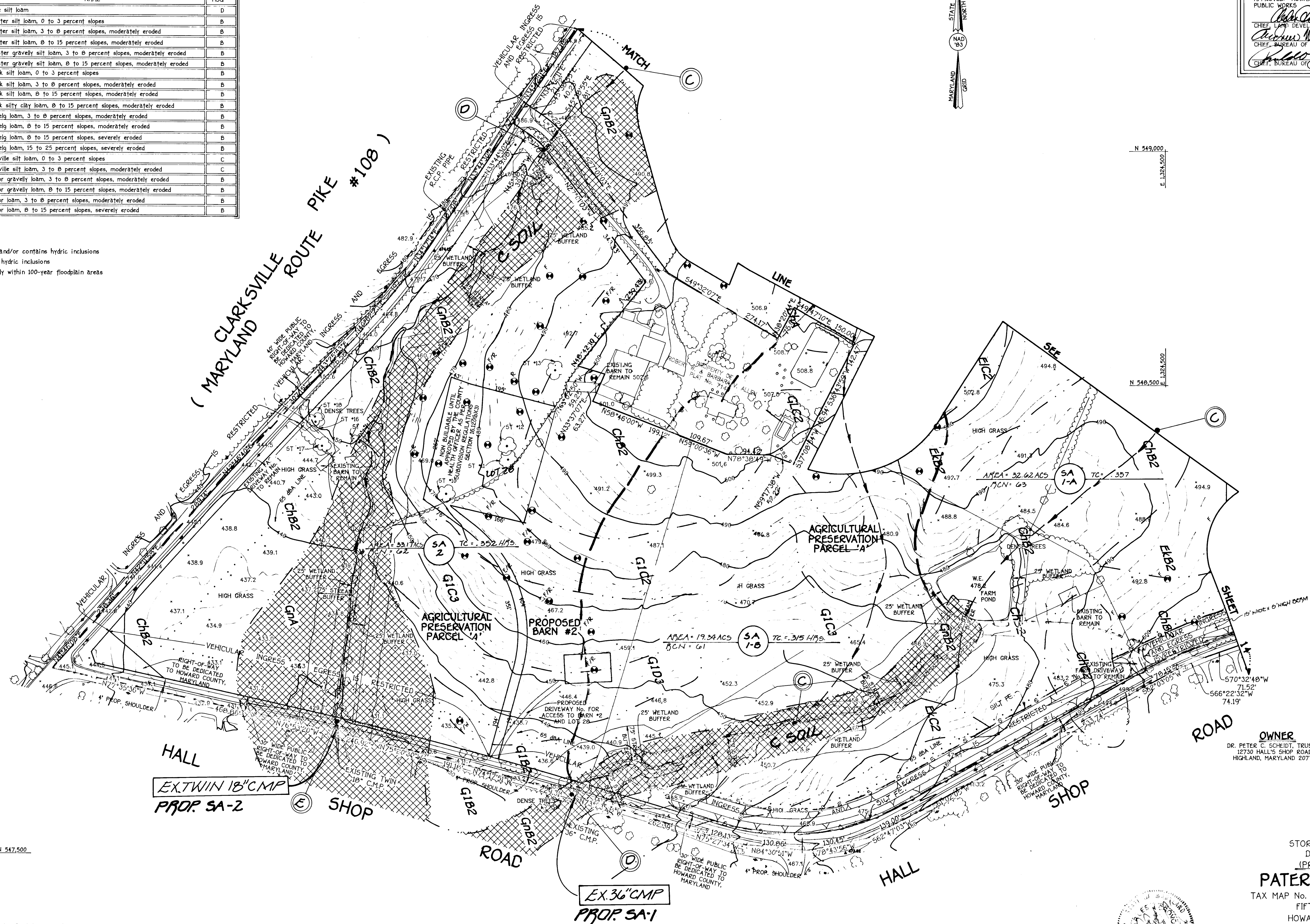
*Robert M. Casella* 7/19/95  
 CHIEF, LAND DEVELOPMENT DIVISION  
 DATE

*Robert M. Casella* 7/19/95  
 CHIEF, BUREAU OF HIGHWAYS  
 DATE

*John J. ...* 7/19/95  
 CHIEF, BUREAU OF ENGINEERING  
 DATE

SOIL	NAME	HSG
** Ba	Baile silt loam	D
ChA	Chester silt loam, 0 to 3 percent slopes	B
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CgC2	Chester gravelly silt loam, 8 to 15 percent slopes, moderately eroded	B
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EkB2	Elioak silt loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Elioak silt loam, 8 to 15 percent slopes, moderately eroded	B
EiC3	Elioak silty clay loam, 8 to 15 percent slopes, moderately eroded	B
GlB2	Glenelg loam, 3 to 8 percent slopes, moderately eroded	B
GlC2	Glenelg loam, 8 to 15 percent slopes, moderately eroded	B
GlC3	Glenelg loam, 8 to 15 percent slopes, severely eroded	B
GlD3	Glenelg loam, 15 to 25 percent slopes, severely eroded	B
* GvA	Glenville silt loam, 0 to 3 percent slopes	C
* GvB2	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	C
MgB2	Manor gravelly loam, 3 to 8 percent slopes, moderately eroded	B
MgC2	Manor gravelly loam, 8 to 15 percent slopes, moderately eroded	B
MiB2	Manor loam, 3 to 8 percent slopes, moderately eroded	B
MiC3	Manor loam, 8 to 15 percent slopes, severely eroded	B

NOTES:  
 \* Hydric soils and/or contains hydric inclusions  
 \*\* May contain hydric inclusions  
 † Generally only within 100-year floodplain areas



**OWNER**  
 DR. PETER C. SCHEIDT, TRUSTEE  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

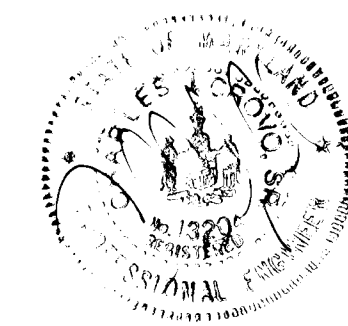
**DEVELOPER**  
 D. SUGAN SCHEIDT  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

STORM WATER MANAGEMENT  
 DRAINAGE AREA MAP  
 (PROPOSED CONDITIONS)  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: MARCH 27, 1995

Scale: 1" = 100'  
 SHEET 15 OF 23

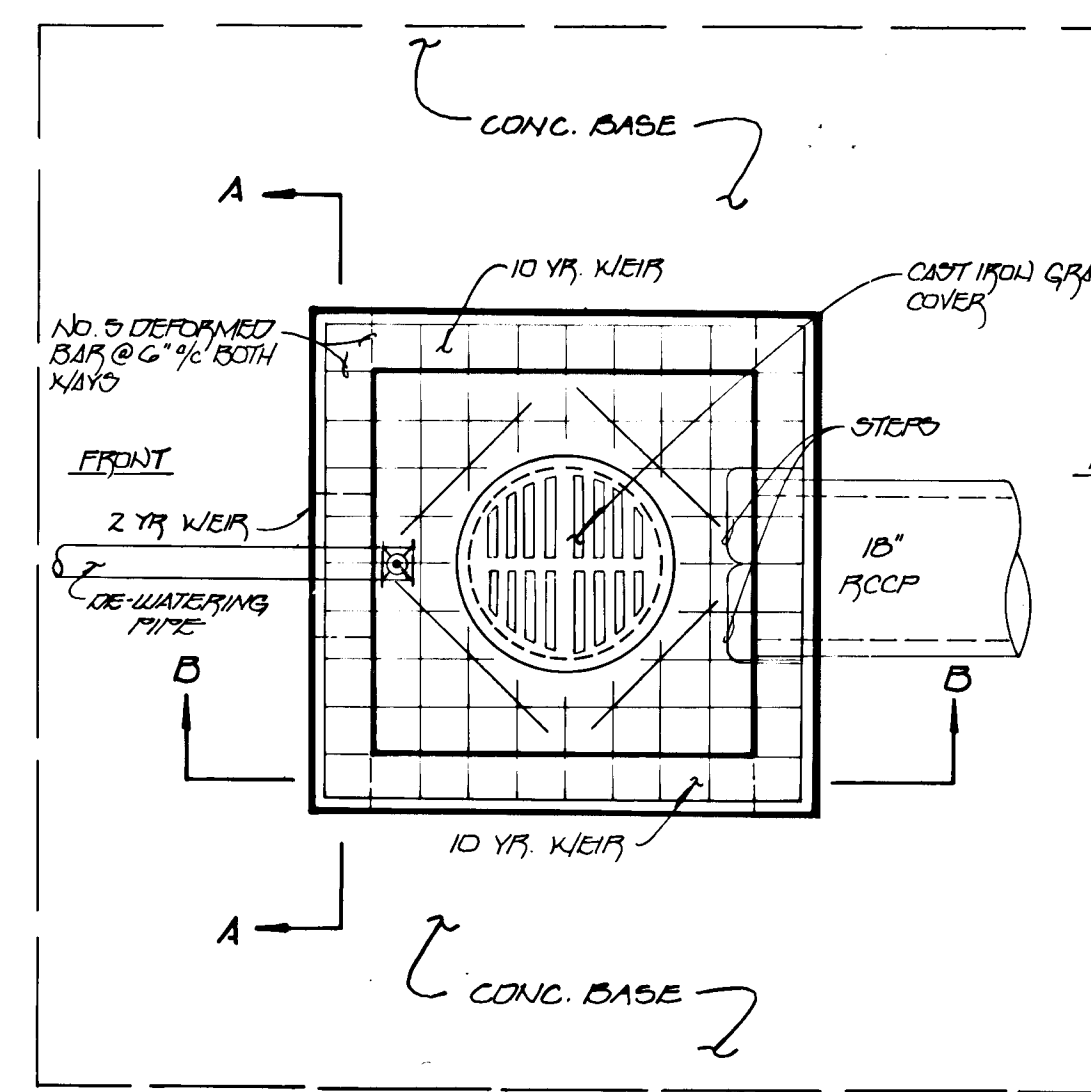
NO.	REVISIONS	DATE
1	ADDED LOT 28 DELETED PARCEL C	3/18/95

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 9771 BALTIMORE NATIONAL PIKE, SUITE 100  
 ELLICOTT CITY, MARYLAND 21042  
 410) 461 - 2895

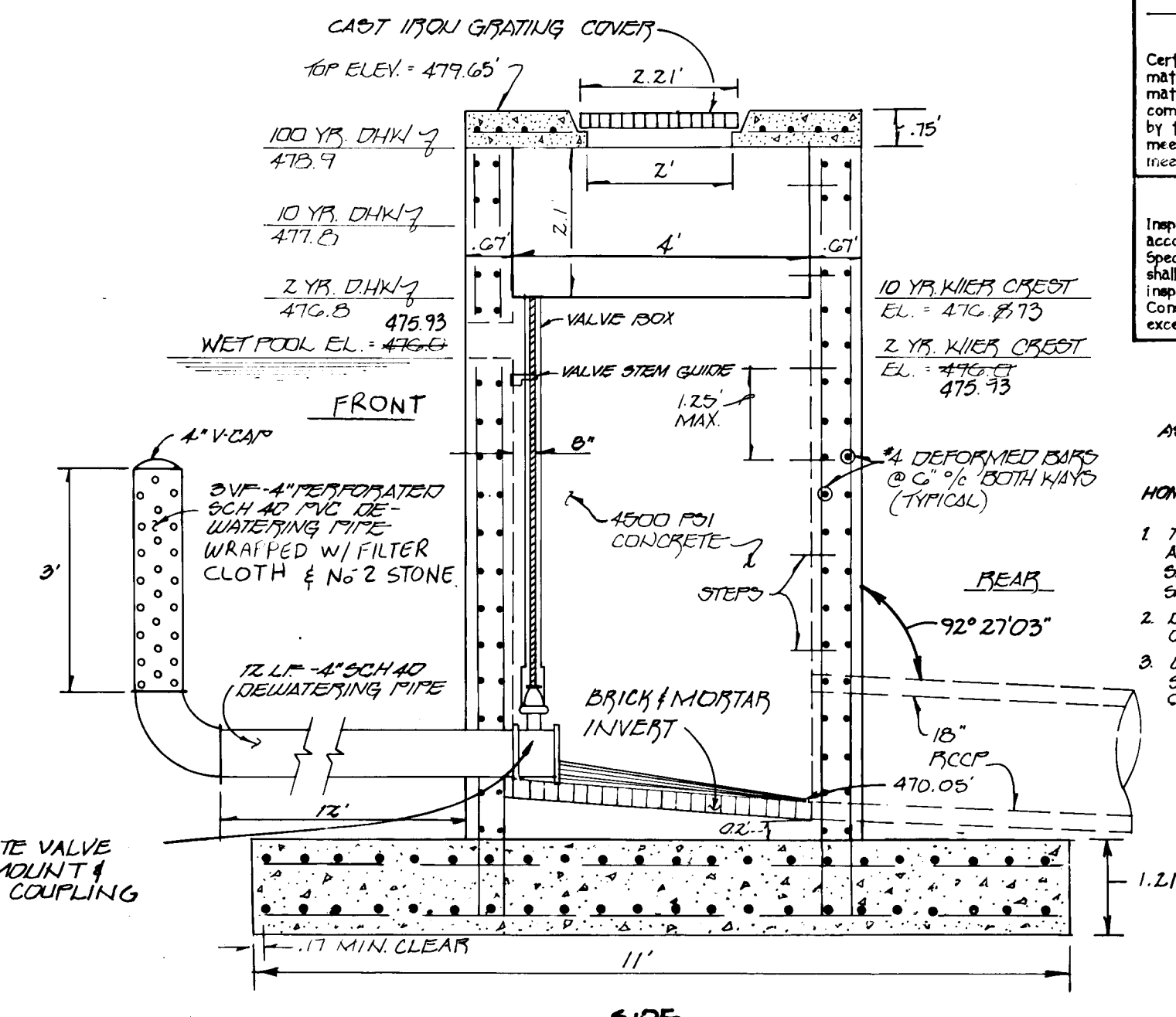


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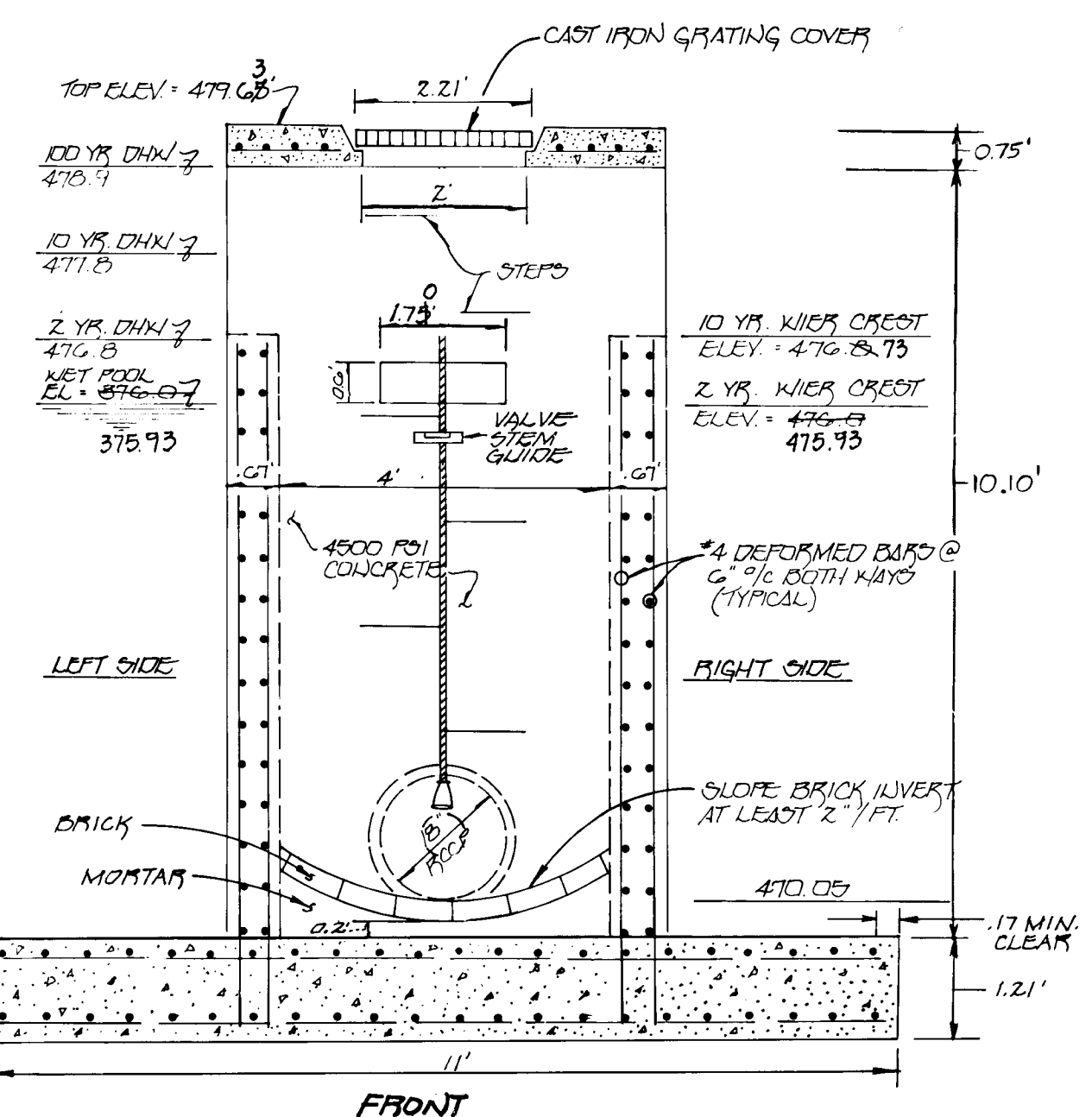




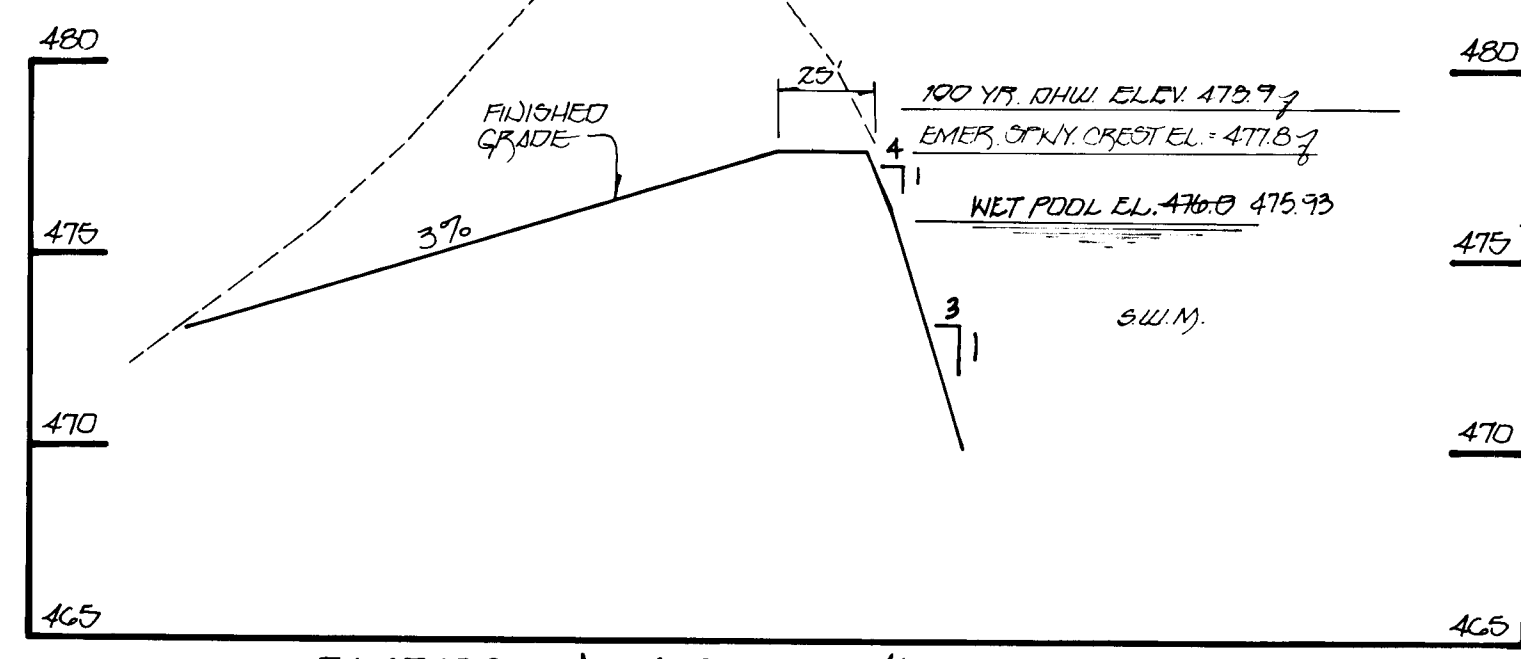
**RISER TOP VIEW S-7**  
SCALE: 1" = 2'



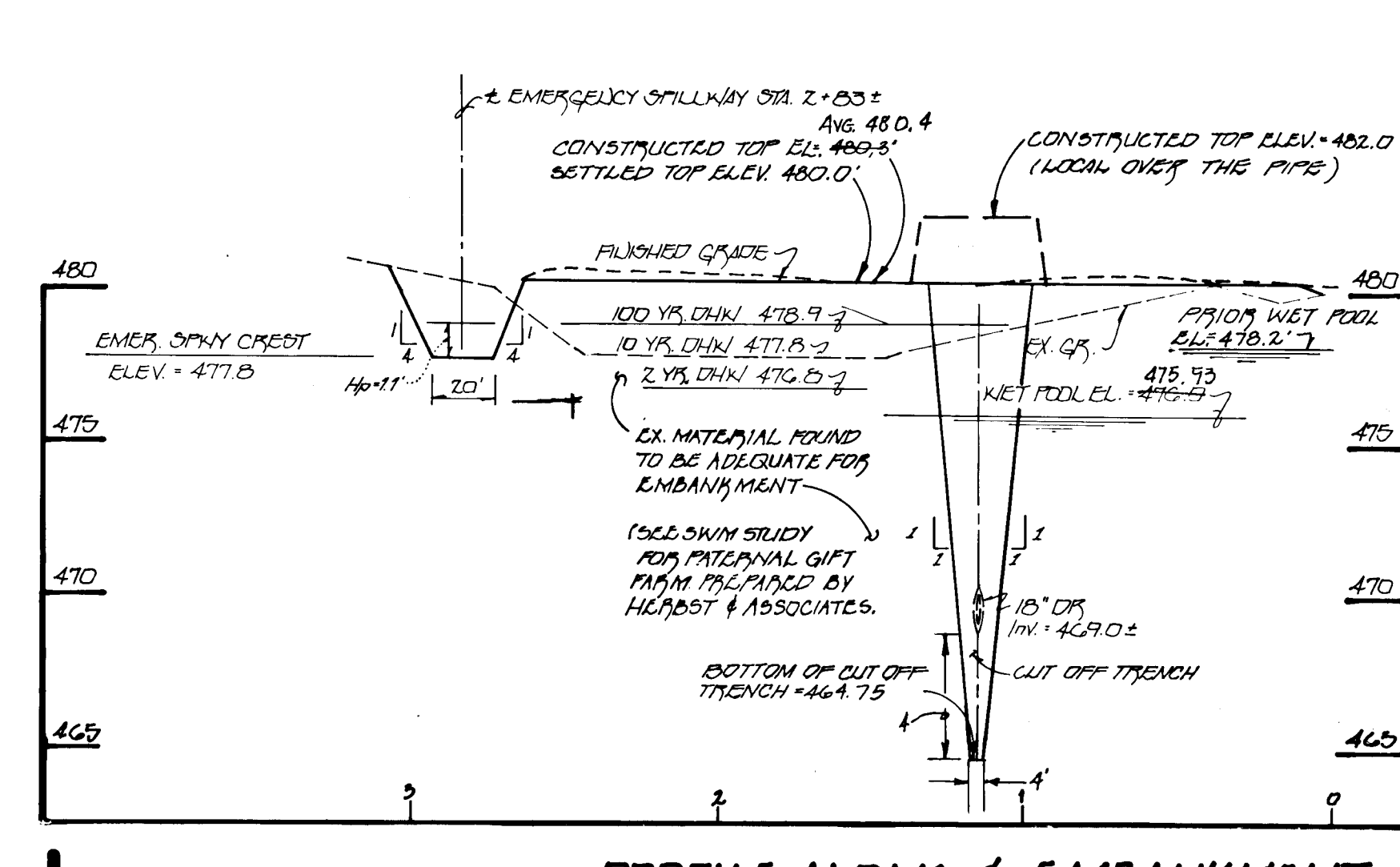
**RISER ELEVATION - 'B-B'-S-7**  
SCALE: 1" = 2'



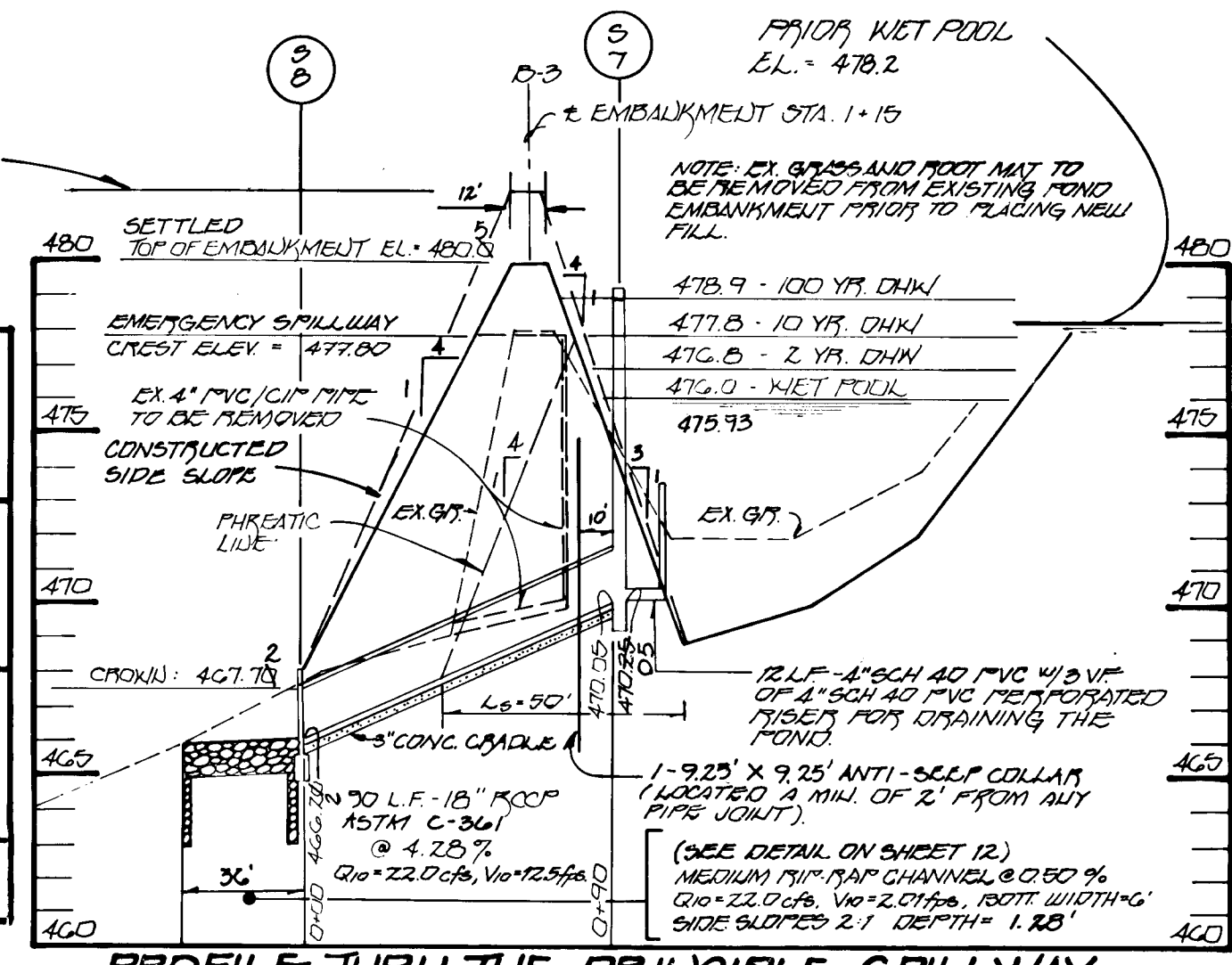
**RISER ELEVATION 'A-A'-S-7**  
SCALE: 1" = 2'



**EMERGENCY SPILLWAY PROFILE**  
SCALE: HORIZ. 1" = 50' VERT. 1" = 5'



**PROFILE ALONG EMBANKMENT**  
SCALE: HORIZ. 1" = 50' VERT. 1" = 5'



**PROFILE THRU THE PRINCIPLE SPILLWAY**  
SCALE: HORIZ. 1" = 50' VERT. 1" = 5'

**A5-BUILT CERTIFICATION**  
I hereby certify that the facility shown on this plan was constructed as shown on the "as-built" plans and meets the approved plans and specifications.  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_ PE No.: \_\_\_\_\_

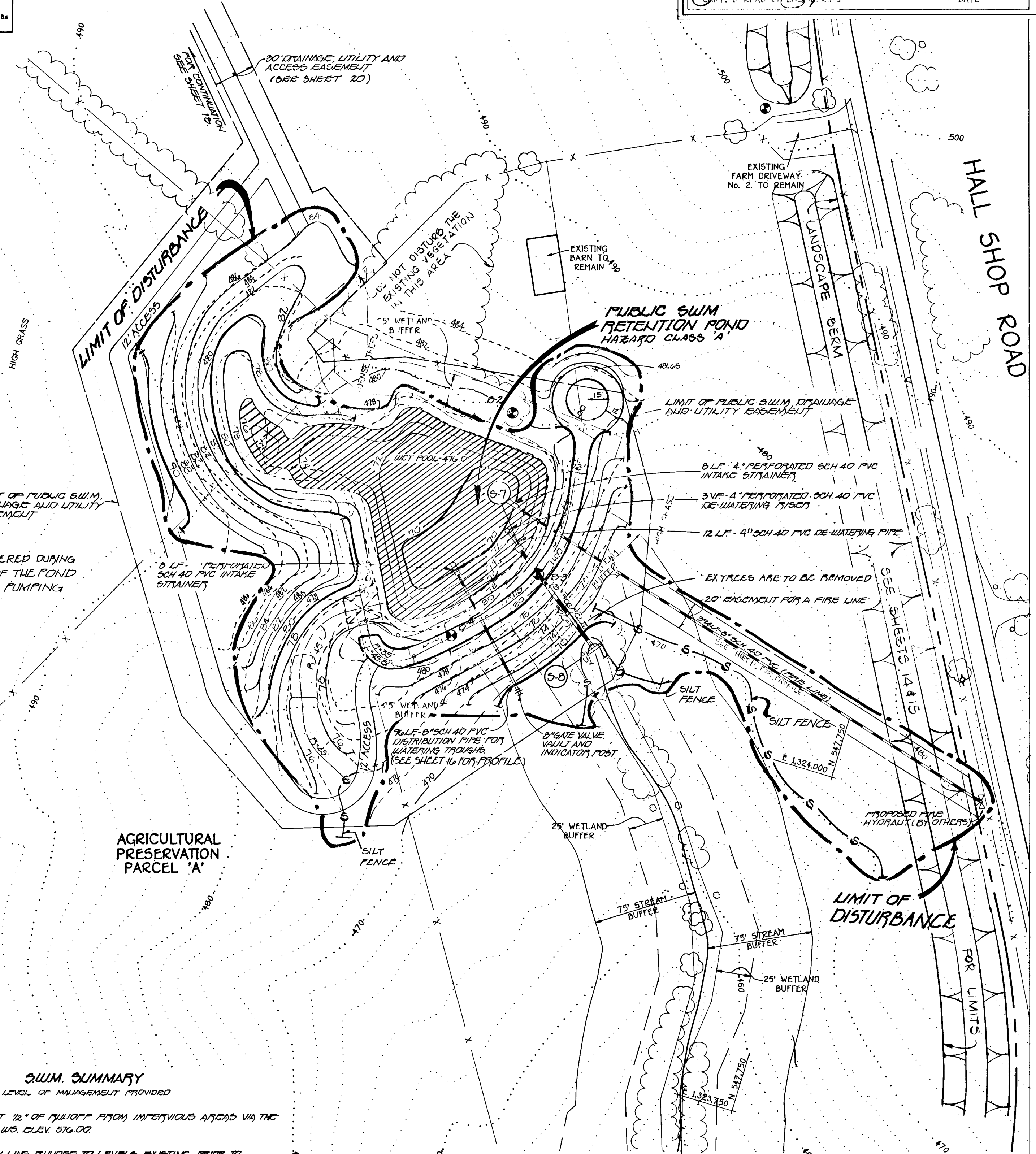
**OPERATION, MAINTENANCE AND INSPECTION**  
Inspection of the pond shown herein shall be performed at least annually, in accordance with the checklist and requirements contained within USDA, 605 Standards and Specifications for Ponds 90-3780. The pond owner(s) and any heirs, successors, or assigns shall be responsible for the safety of the pond and the continued operation, surveillance, inspection, and maintenance thereof. The pond owner(s) shall promptly notify the Soil Conservation District of any unusual observations that may be indications of distress such as excessive seepage, turbid seepage, sliding or slumping.

**DEVELOPER'S CERTIFICATE**  
I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall employ a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I shall authorize periodic on-site inspections by the Howard Soil Conservation District.  
Signature: Charles J. Crivisor Date: 12/25/94  
Signature: Robert W. Schumacher Date: 7/5/95

**ENGINEER'S CERTIFICATE**  
I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he/she must engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.  
Signature: Charles J. Crivisor Date: 12/25/94  
Signature: Robert W. Schumacher Date: 7/5/95

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Date: 7/28/95  
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Date: 7/14/95  
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Date: 7/19/95

- OWNER AND MAINTENANCE SCHEDULE OF HOME OWNERS ASSOCIATION OWNED AND MAINTAINED STOPWATER MANAGEMENT FACILITY WET POND**
- HOME OWNERS ASSOCIATION'S MAINTENANCE RESPONSIBILITIES:**
- TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOVED A MINIMUM OF TWO (2) TIMES A YEAR, ONCE IN JUNE AND ONCE IN SEPTEMBER. OTHER SIDE SLOPES, AND MAINTENANCE ACCESS SHOULD BE MOVED AS NECESSARY.
  - DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.
  - WHEN DEEMED NECESSARY FOR AESTHETIC REASONS, EQUIPMENT SHOULD BE REMOVED FROM THE POND. APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS IS REQUIRED.



**SWIM SUMMARY**  
LEVEL OF MANAGEMENT PROVIDED

WATER QUALITY:	FOR THE FIRST 1/2" OF FLOW FROM INTERVIOUS AREAS VIA THE WET POOL AT W.B. ELEV. 576.00.
WATER QUANTITY:	FOR CONTROLLING FLOW TO LEVELS EXISTING PRIOR TO DEVELOPMENT FOR THE 2 + 10 YEAR STORMS.
TYPE OF FACILITY:	HAZARDOUS CLASS 'A' WET POND
DRAINAGE AREA TO FACILITY:	02.02 ACRES OF 051.00 MS.
DESIGN FREQUENCY:	2 YEAR 10 YEAR 100 YEAR
INFLOW RATE:	10 CFS 400 CFS 610 CFS
OUTFLOW RATE ALLOWED:	37 CFS 22.0 CFS 610 CFS
ACTUAL OUTFLOW RATE:	26 CFS 22.0 CFS 610 CFS
STORAGE VOLUME (AC.FT):	376 AC.FT 1042 AC.FT 1736 AC.FT
WATER SURFACE ELEVATION:	476.00 477.75 478.02
PEAK TIME (HRS):	18.16 12.52 12.34

**FISHER, COLLINS & CARTER, INC.**  
9711 BALTIMORE NATIONAL PIKE, SUITE 100  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2855

**OWNER**  
DR. PETER C. SCHMIDT, TRUSTEE  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

**DEVELOPER**  
DR. PETER C. SCHMIDT  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

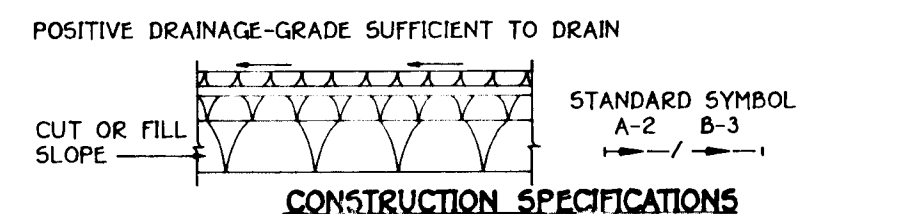
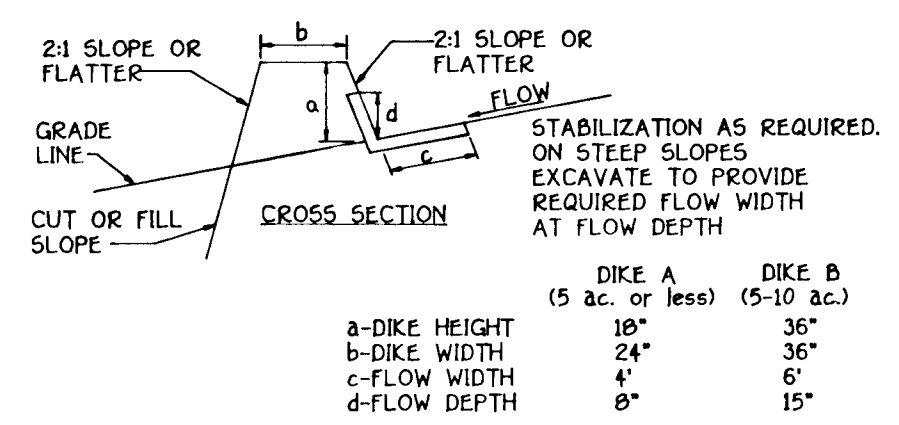
STORM WATER MANAGEMENT PLAN,  
PROFILES AND DETAILS  
**PATERNALE GIFT FARM**  
TAX MAP No. 40 PARCELS 90, 179 AND 369  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
DATE: DECEMBER 16, 1994  
SCALE: 1" = 50'  
SHEET 16 OF 23

1741









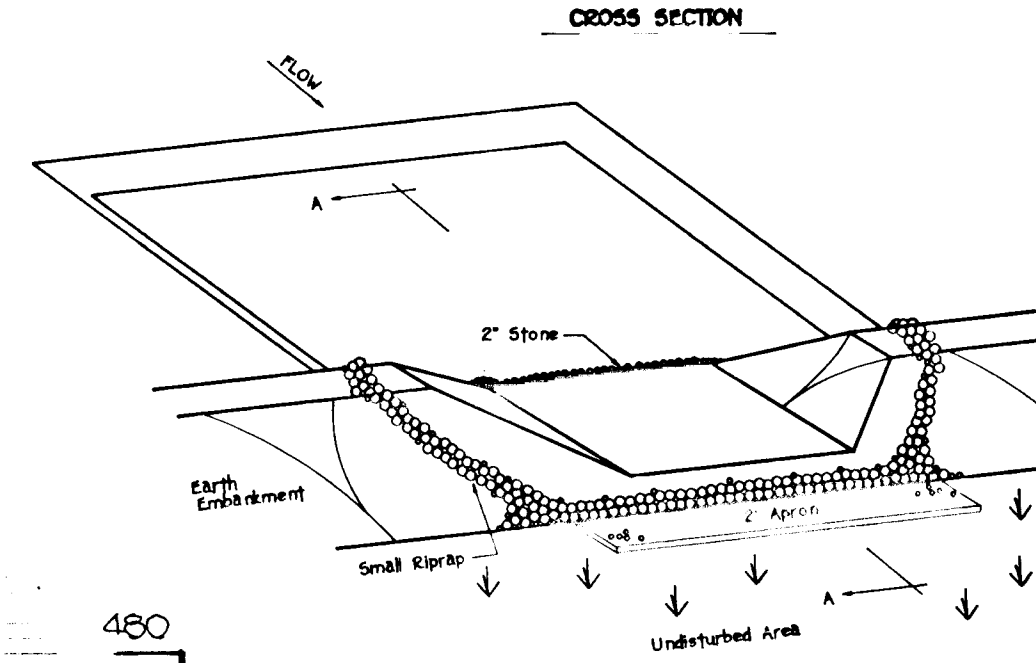
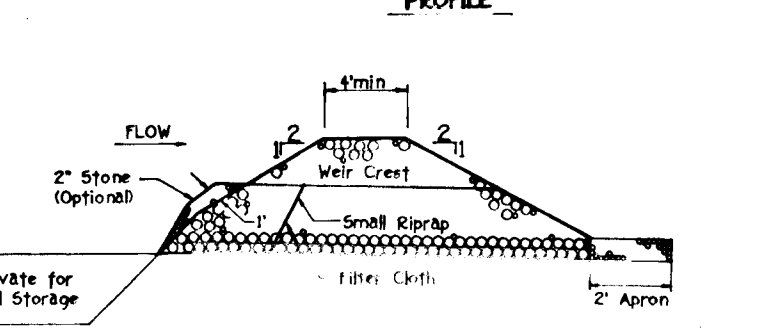
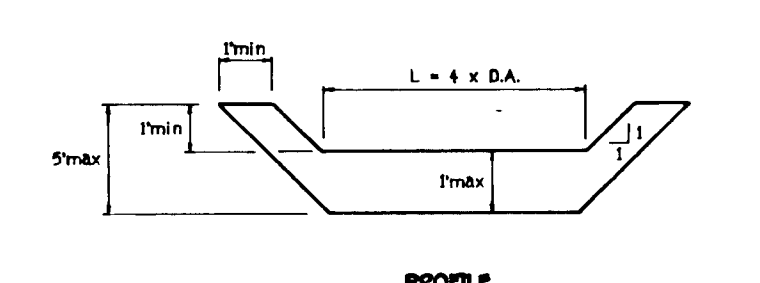
- CONSTRUCTION SPECIFICATIONS**
- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
  - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  - TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
  - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
  - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
  - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

**FLOW CHANNEL STABILIZATION**

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3.0X	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3:1-5.0X	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCLUSION: 50B; 2" STONE
3	5:1-8.0X	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4"-8"
4	8:1-20X	LINED RIP-RAP 4"-8"	ENGINEERING DESIGN

- STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
  - RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.
  - APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

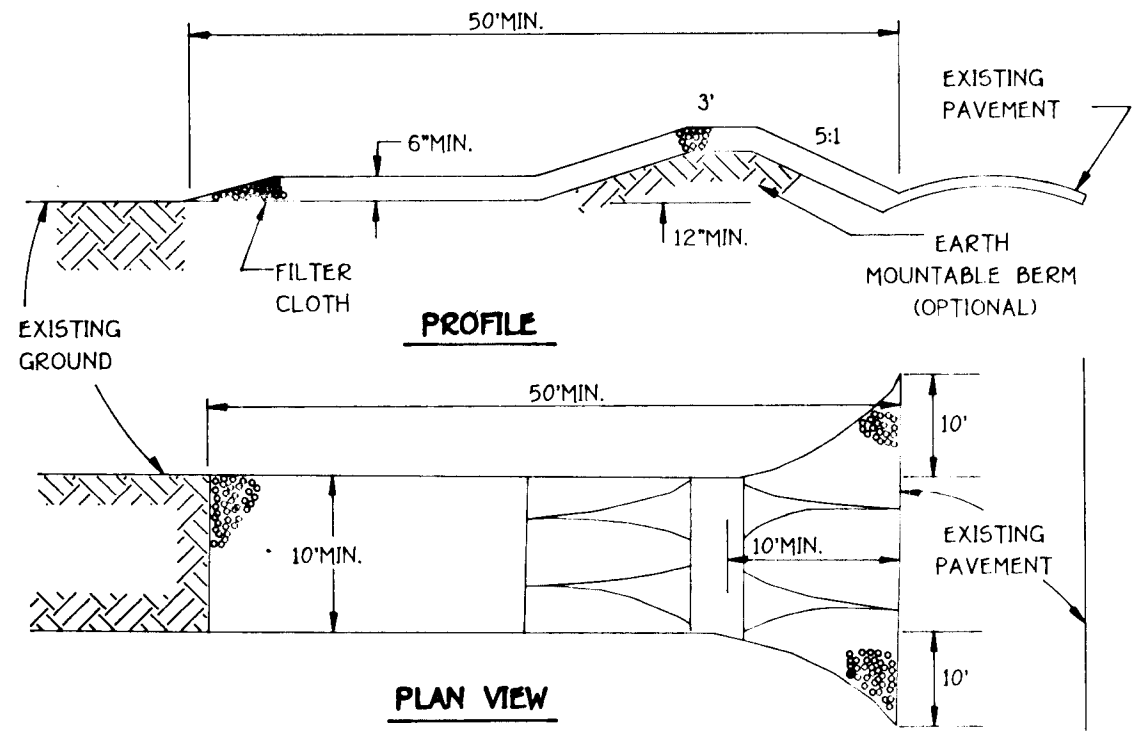
**EARTH DIKE**  
NOT TO SCALE



**STONE OUTLET SEDIMENT TRAP ST-V**

- THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
- THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAMPING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
- ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
- THE STONE USED IN THE OUTLET SHALL BE SMALL RIP-RAP 4"-8" ALONG WITH A 1" THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIP-RAP OR EMBEDDED FILTER CLOTH IN THE RIP-RAP.
- SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
- THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

**WATER TROUGH DISTRIBUTION LINE**  
SCALE: 1" = 5' V.  
1" = 50' H.



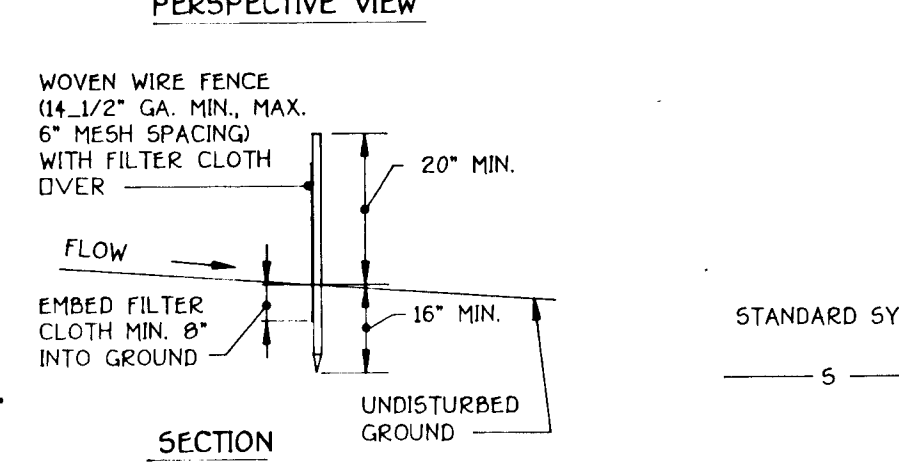
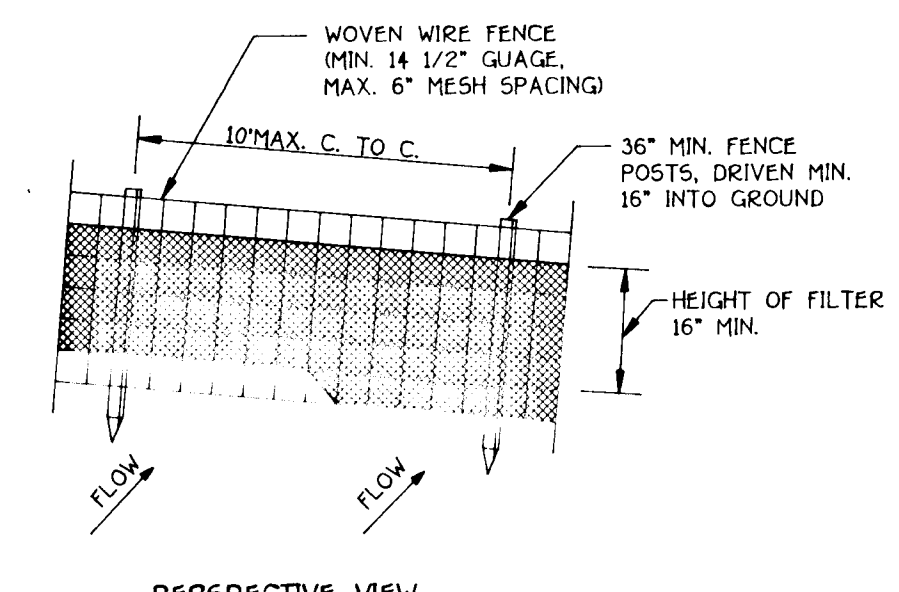
**STABILIZED CONSTRUCTION ENTRANCE - 2**  
NOT TO SCALE

- CONSTRUCTION SPECIFICATIONS**
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
  - THICKNESS - NOT LESS THE SIX (6) INCHES.
  - WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
  - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
  - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND /OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
  - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

**STABILIZED CONSTRUCTION ENTRANCE - 2**  
NOT TO SCALE

**SEDIMENT CONTROL NOTES**

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL GREATER THAN 3:1 b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:  
TOTAL AREA OF SITE: 114.772 ACRES  
AREA DISTURBED: 3.0 ACRES  
AREA TO BE ROOFED OR PAVED: 3.1 ACRES  
AREA TO BE VEGETATIVELY STABILIZED: 9.9 ACRES  
TOTAL CUT: 2200 CU.YDS.  
TOTAL FILL: 7200 CU.YDS.  
OFFSITE WASTE/BORROW AREA LOCATION: 0 - CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DEPT. SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.



**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T14 ON OR APPROVED EQUAL.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. PREFABRICATED UNIT: GEOTAB, ENVIRONMENT, OR APPROVED EQUAL.

**SILT FENCE**  
NOT TO SCALE

**PERMANENT SEEDING NOTES**

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

**SEEDING PREPARATION:**  
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

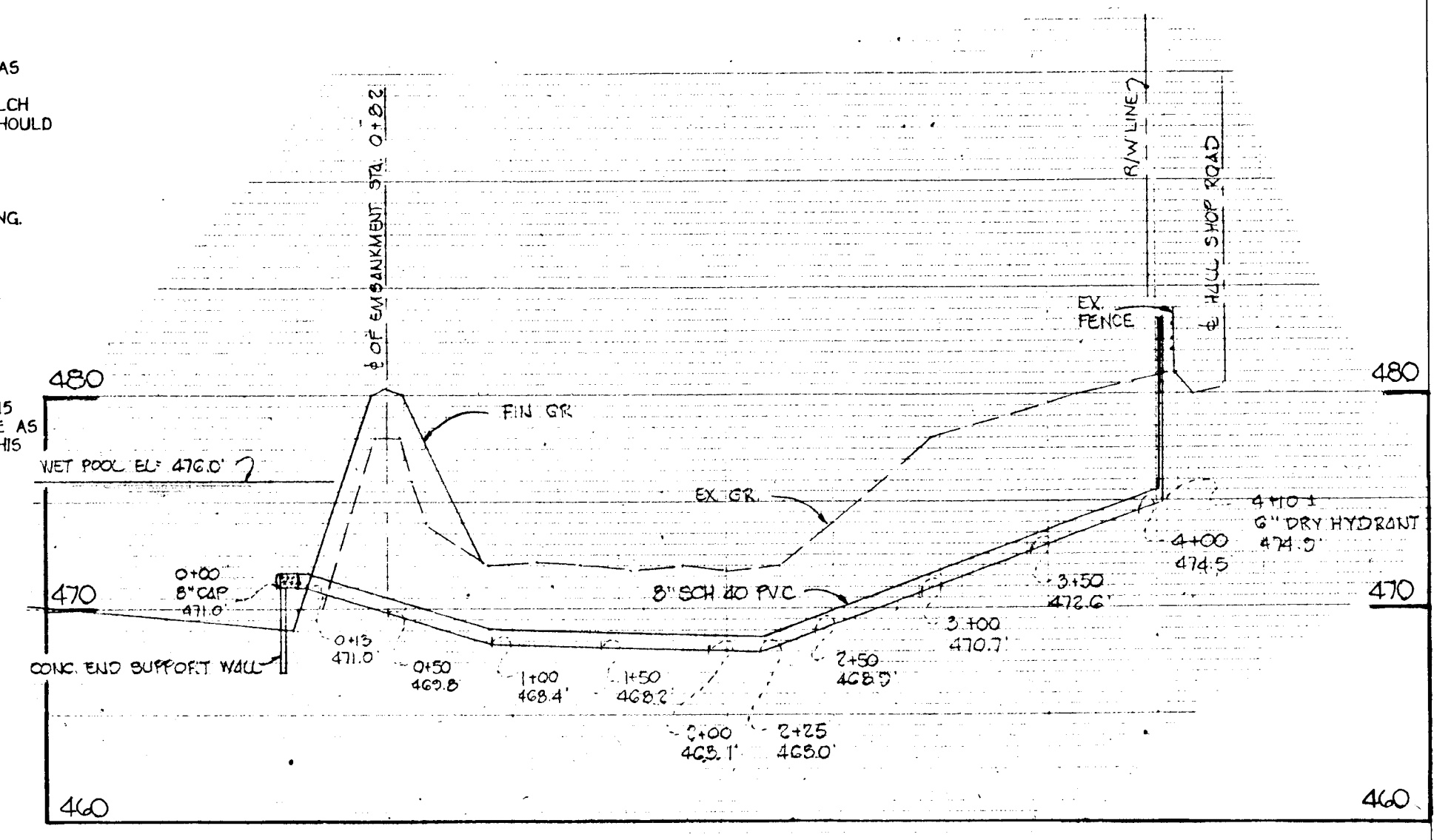
**SOIL AMENDMENTS:**  
APPLY TWO TONS PER ACRE DOLOMITE LIMESTONE 192 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1000 SQ.FT.) OF 10-20-20 FERTILIZER.

**SEEDING:**  
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (1.4 LBS./1000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY: OPTION (1) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOD; OPTION (3) SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.

**MULCHING:**  
APPLY 1 TO 2 TONS PER ACRE (10 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (9 GAL./1000 SQ.FT.) FOR ANCHORING.

**MAINTENANCE:**  
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

\* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNVEITCH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.



**FIRE LINE PROFILE**  
SCALE: 1" = 5' V.  
1" = 50' H.

**ENGINEER'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: [Signature] DATE: 12/28/94

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

Signature: [Signature] DATE: 12/28/94

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS.

Signature: Patricia Englund/MS DATE: 7/5/95  
USDA NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: Robert W. Zuhm/MS DATE: 7/5/95  
HOWARD COUNTY SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Signature: Gina Surramann DATE: 7/28/95  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: DEPARTMENT OF PUBLIC WORKS

Signature: [Signature] DATE: 7/19/95  
CHIEF, OFFICE OF ENGINEERING

APPROVED: DEPARTMENT OF PUBLIC WORKS

Signature: [Signature] DATE: 7/19/95  
CHIEF, DIVISION OF HIGHWAYS

Signature: [Signature] DATE: 7-14-95  
CHIEF, BUREAU OF HIGHWAYS

**SEDIMENT CONTROL NOTES AND DETAILS**  
**PATERNAI GIFT FARM**  
TAX MAP No. 40 PARCELS 90, 179 AND 369  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
DATE: DECEMBER 2, 1994  
SCALE: AS SHOWN  
SHEET 10 OF 23

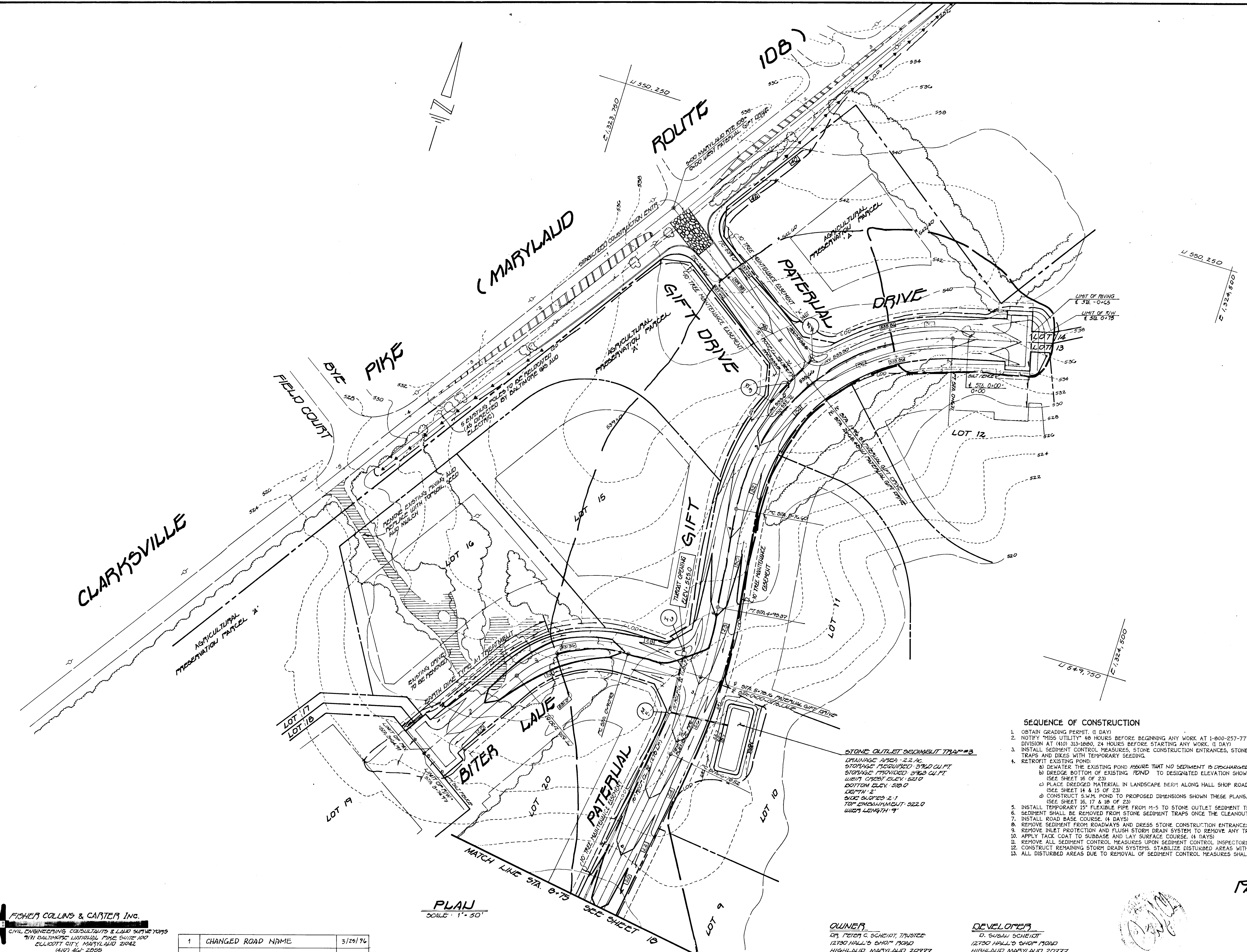


**FISHER, COLLINS & CARTER, INC.**  
1005  
971 BAL THORP NATIONAL PARK, SUITE 100  
BELLICO CITY, MARYLAND 20842  
(410) 461-2855

**OWNER**  
DR. PETER C. SCHREIBER, TRUSTEE  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

**DEVELOPER**  
MRS. SUGAN SCHEIDT  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777





**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND FEASIBLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 SIGNATURE OF ENGINEER: [Signature] DATE: 12/20/94

**DEVELOPER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A COURSEMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION CONTROL. INCLUDING THE PROJECT I HAVE AUTHORIZED PERSONNEL ON SITE TO BE SUPERVISED BY THE HOWARD SOIL CONSERVATION DISTRICT ON THEIR AUTHORIZED RESUME, AS PER CERTIFIED UNDERWRITING.  
 SIGNATURE OF DEVELOPER: [Signature] DATE: 12/20/94

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 Patricia Embury [Signature] 7/5/95  
 USDA NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: [Signature] 7/5/95  
 DISTRICT HOWARD COUNTY CONSERVATION DISTRICT

APPROVED: DEPT. OF PLANNING AND ZONING  
 [Signature] 7/28/95  
 CHIEF DIVISION OF LAND DEVELOPMENT AND PRESERVATION

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 [Signature] 7/19/95  
 CHIEF, BUREAU OF EROSION CONTROL

APPROVED: DEPARTMENT OF PUBLIC WORKS  
 [Signature] 7/19/95  
 CHIEF, BUREAU OF HIGHWAYS

U 550, 250  
 E 1,324, 800

U 549, 750  
 E 1,324, 800

ASBUILT  
 1-C-97

**SEQUENCE OF CONSTRUCTION**

- OBTAIN GRADING PERMIT (1 DAY)
- NOTIFY "MISS UTILITY" 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY HOWARD COUNTY OFFICE OF CONSTRUCTION/INSPECTION DIVISION AT (410) 313-1000, 24 HOURS BEFORE STARTING ANY WORK (1 DAY)
- INSTALL SEDIMENT CONTROL MEASURES, STONE CONSTRUCTION ENTRANCES, STONE OUTLET SEDIMENT TRAPS, EARTH DIKES SILT FENCE AND STABILIZE TRAPS AND DIKES WITH TEMPORARY SEEDING.
- RETROFIT EXISTING POND:
  - DEWATER THE EXISTING POND ASSURE THAT NO SEDIMENT IS DISCHARGED INTO THE STREAM, WETLANDS AND THEIR BUFFER.
  - DREDGE BOTTOM OF EXISTING POND TO DESIGNATED ELEVATION SHOWN ON PLAN. (SEE SHEET 16 OF 23)
  - PLACE DREDGED MATERIAL IN LANDSCAPE BERM ALONG HALL SHOP ROAD. (SEE SHEET 14 & 15 OF 23)
  - CONSTRUCT S.W.M. POND TO PROPOSED DIMENSIONS SHOWN THESE PLANS. (SEE SHEET 16, 17 & 18 OF 23)
- INSTALL TEMPORARY 15" FLEXIBLE PIPE FROM M-5 TO STONE OUTLET SEDIMENT TRAP (S.O.S.T.) NO. 3 AND BLOCK THE 18" OUTFALL OPENING AT M-5. SEDIMENT SHALL BE REMOVED FROM STONE SEDIMENT TRAPS ONCE THE CLEANOUT ELEVATIONS HAVE BEEN REACHED. (1 DAY)
- INSTALL ROAD BASE COURSE. (4 DAYS)
- REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCES AS REQUIRED AND STABILIZE ALL DISTURBED AREAS. (2 DAYS)
- REMOVE INLET PROTECTION AND FLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT. (2 DAYS)
- APPLY TACK COAT TO SUBBASE AND LAY SURFACE COURSE. (4 DAYS)
- REMOVE ALL SEDIMENT CONTROL MEASURES UPON SEDIMENT CONTROL INSPECTORS APPROVAL. (2 DAYS)
- CONSTRUCT REMAINING STORM DRAIN SYSTEMS, STABILIZE DISTURBED AREAS WITH PERMANENT SEEDING. (4 DAYS)
- ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.

**STONE OUTLET SEDIMENT TRAP #3**  
 DRAINAGE AREA - 2.2 AC  
 STORAGE REQUIRED 3960 CU FT  
 STORAGE PROVIDED 3920 CU FT  
 WATER DEPTH ELEV. 527.0  
 BOTTOM ELEV. 518.0  
 LENGTH 2'  
 SIDE SLOPES 2:1  
 TOP DIMENSION/CURV. 922.0  
 WIDTH LENGTH 7'

**FISHER COLLINS & CARTER, Inc.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 7791 SULTANATE LINDSAY PIKE SUITE 100  
 CLICOTT CITY, MARYLAND 21042  
 (410) 461-2055

NO	REVISIONS	DATE
1	CHANGED ROAD NAME	3/25/94

**PLAN**  
 SCALE: 1" = 50'

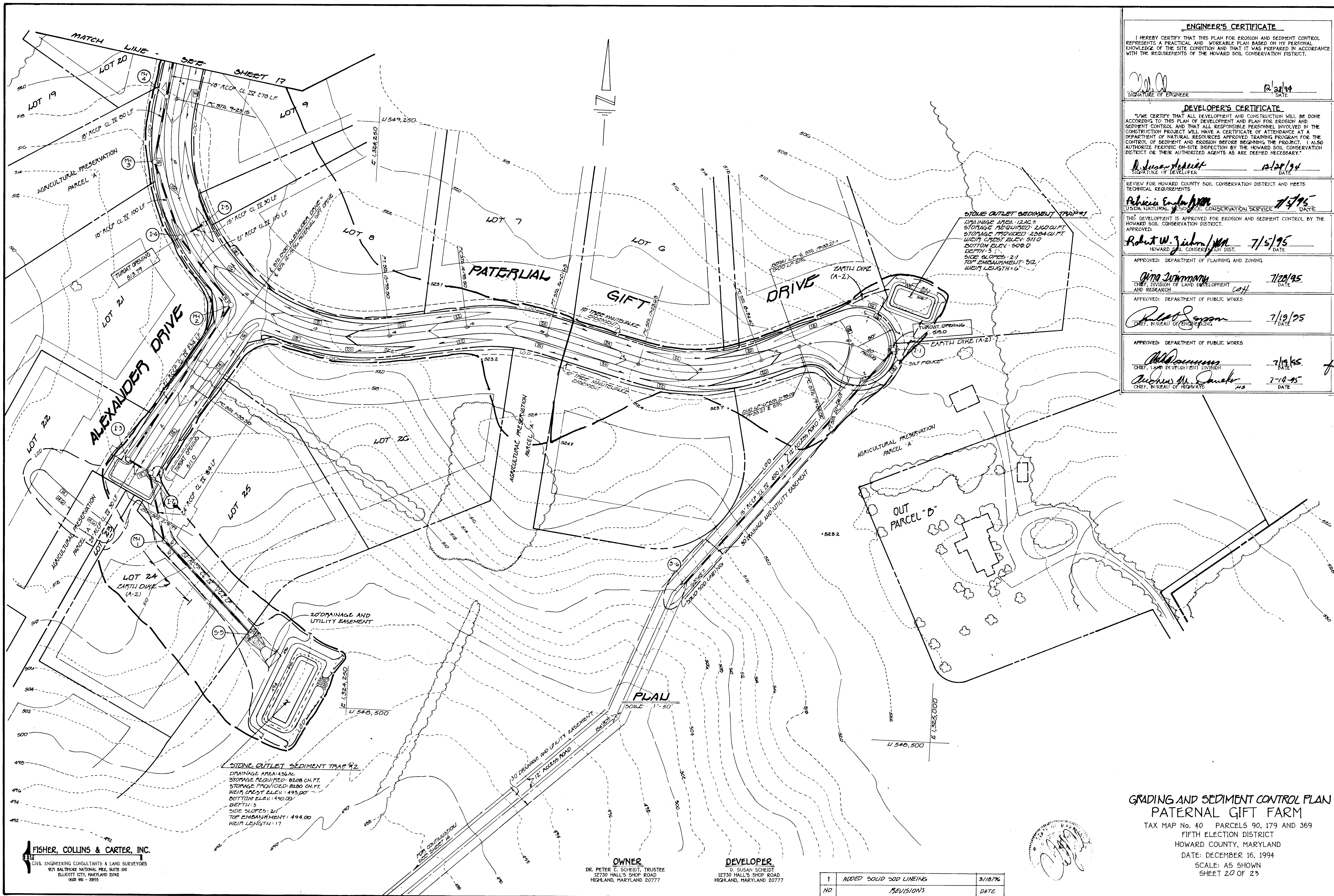
**OWNER**  
 DR. PETER C. SCHLOT, TRUSTEE  
 12700 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

**DEVELOPER**  
 D. SUBAN SCHLOT  
 12700 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

**GRADING & SEDIMENT CONTROL PLAN**  
**PATERIAL GIFT FARM**

TAX MAP 16-40 PARCEL 92 1791 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: DECEMBER 1, 1994  
 SHEET 19 OF 23





**ENGINEER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
 SIGNATURE OF ENGINEER: *[Signature]* DATE: 12/28/94

**DEVELOPER'S CERTIFICATE**  
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.  
 SIGNATURE OF DEVELOPER: *[Signature]* DATE: 12/28/94

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*[Signature]* 7/5/95  
 USDA NATURAL RESOURCE CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *[Signature]* 7/5/95  
 HOWARD SOIL CONSERVATION DIST.

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 7/28/95  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 7/19/95  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 7/19/95  
 CHIEF, LAND DEVELOPMENT DIVISION DATE

*[Signature]* 7-19-95  
 CHIEF, BUREAU OF HIGHWAYS DATE

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 9171 BALTIMORE NATIONAL PIKE, SUITE 100  
 ELKLOTT CITY, MARYLAND 21242  
 (410) 461-2955

**OWNER**  
 DR. PETER C. SCHEIDT, TRUSTEE  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

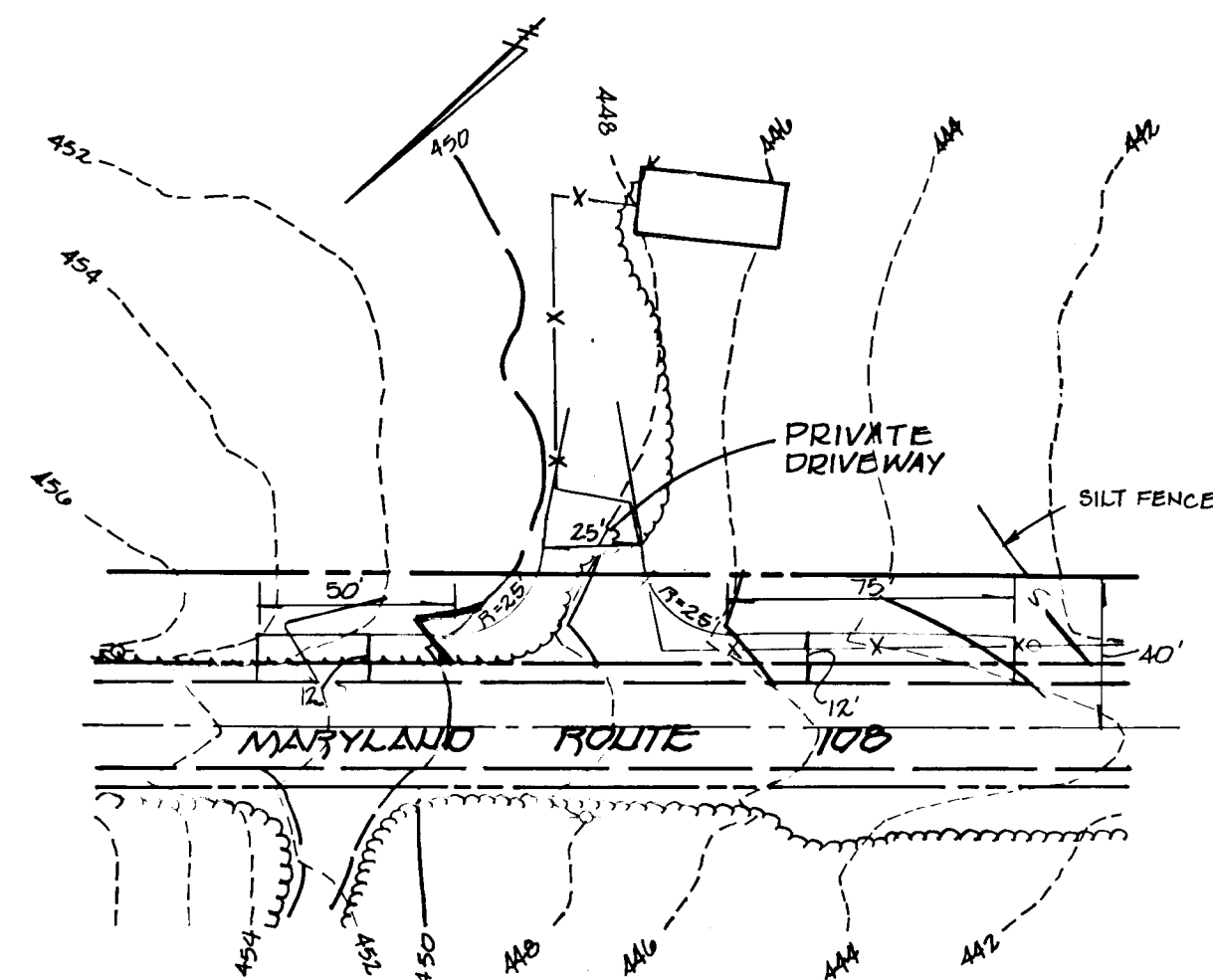
**DEVELOPER**  
 D. SUSAN SCHEIDT  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

1	ADDED SOLID SOD LINEING	3/18/96
N2	REVISIONS	DATE

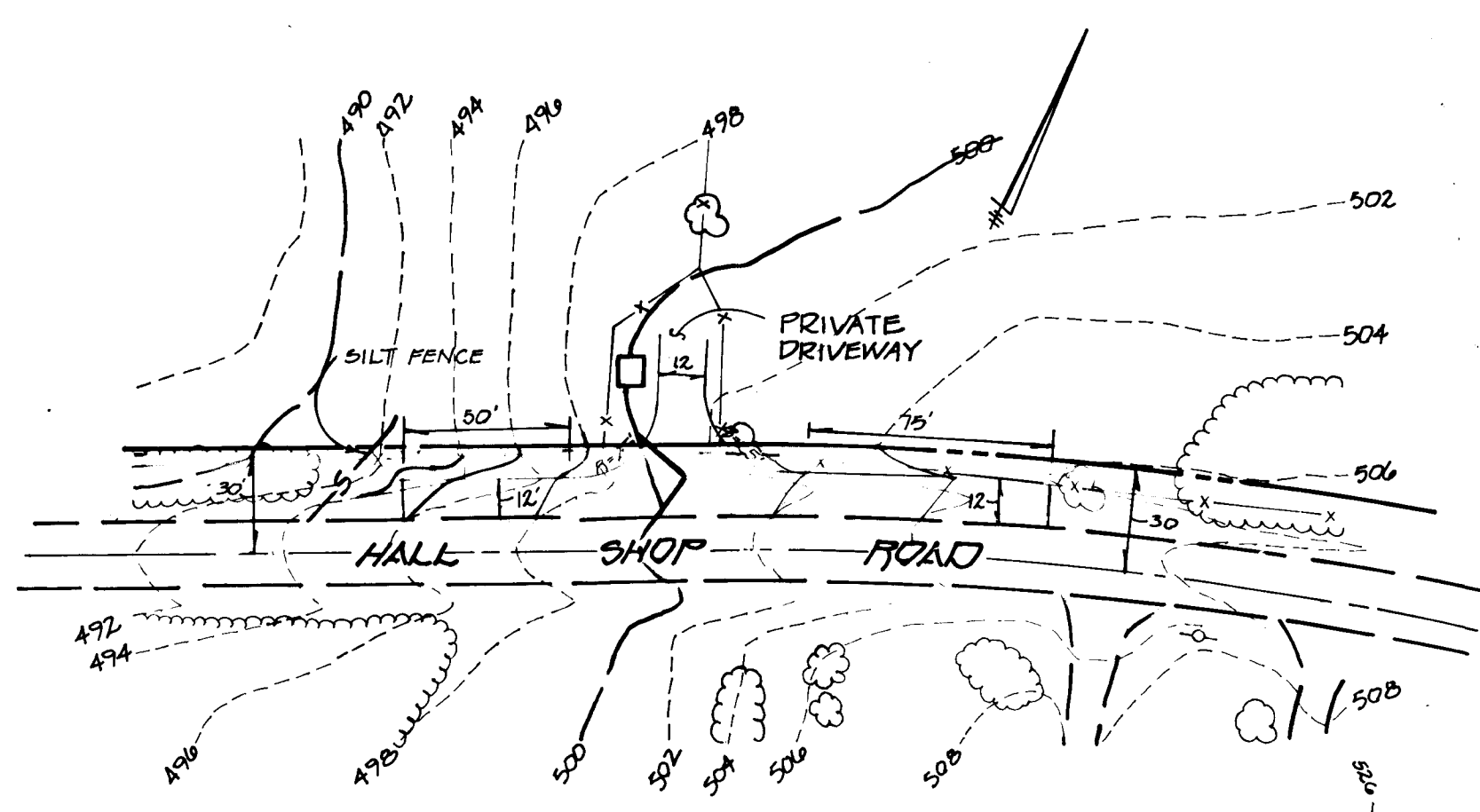
**GRADING AND SEDIMENT CONTROL PLAN**  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: DECEMBER 16, 1994  
 SCALE: AS SHOWN  
 SHEET 20 OF 23

1741

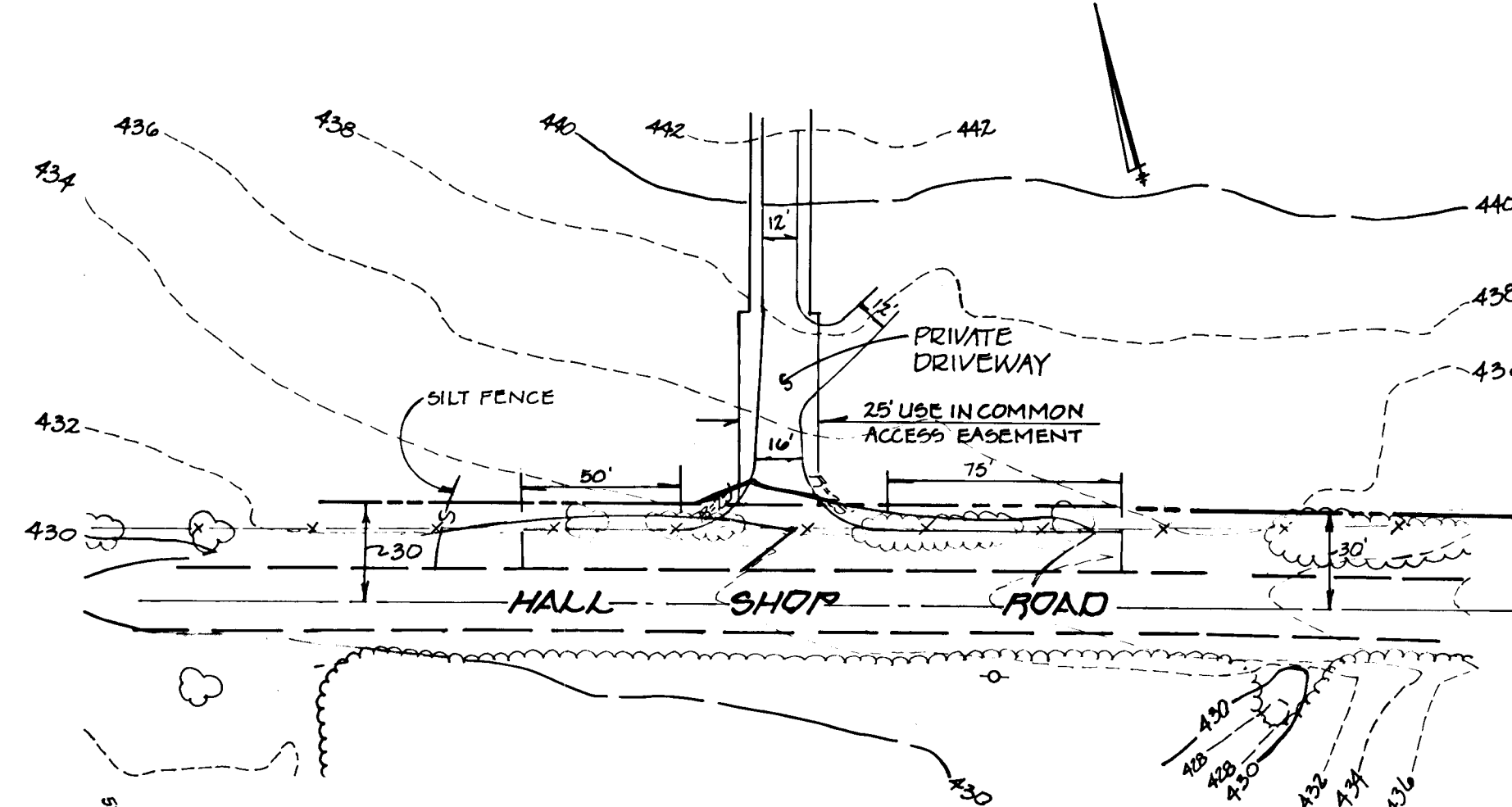




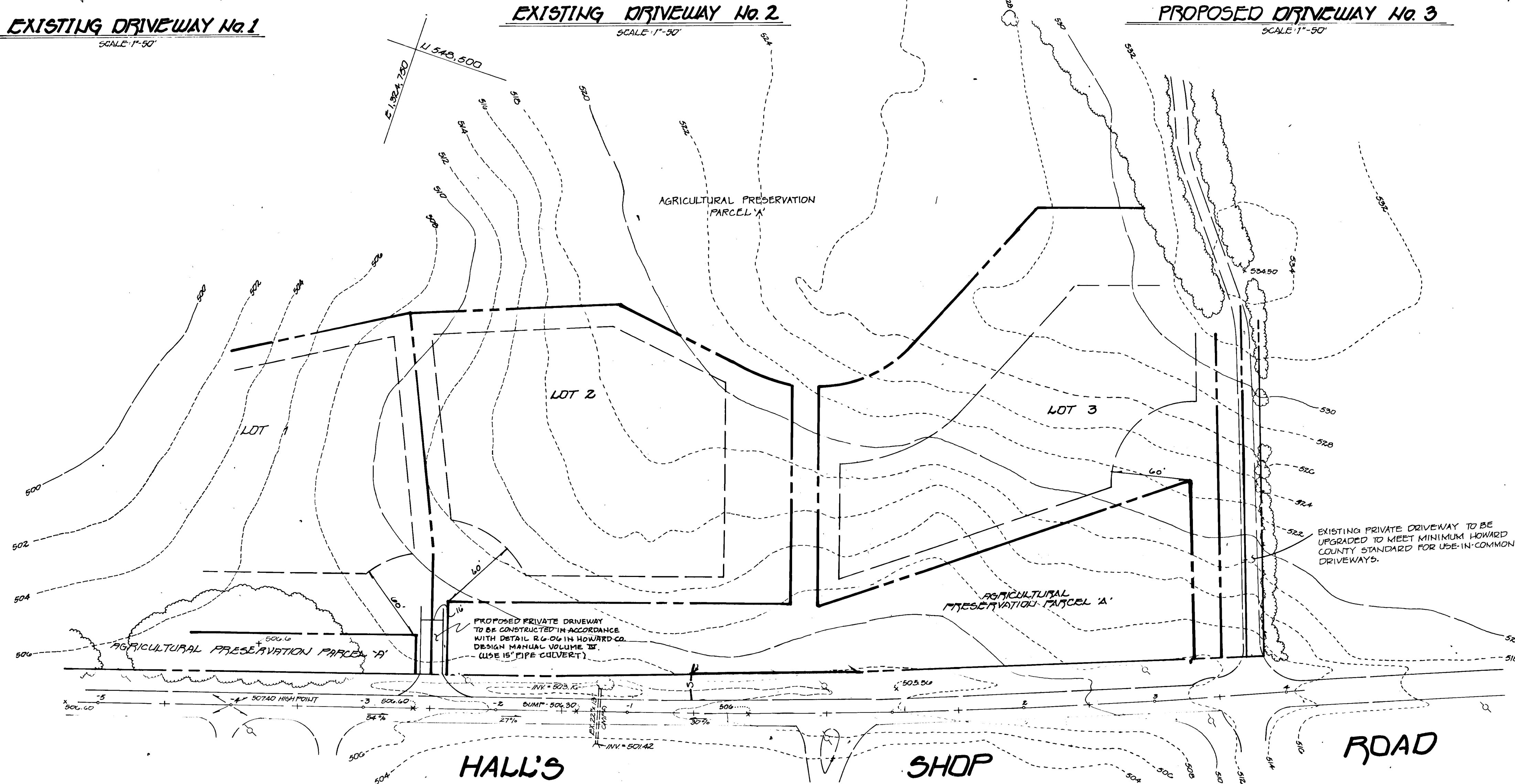
**EXISTING DRIVEWAY No. 1**  
SCALE: 1"=50'



**EXISTING DRIVEWAY No. 2**  
SCALE: 1"=50'



**PROPOSED DRIVEWAY No. 3**  
SCALE: 1"=50'



**PLAN**  
SCALE: 1"=50'

**ENGINEER'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]*  
SIGNATURE OF ENGINEER  
12/28/94  
DATE

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

*[Signature]*  
SIGNATURE OF DEVELOPER  
12/28/94  
DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*[Signature]*  
U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE  
7/5/95  
DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

*[Signature]*  
HOWARD SOIL CONSERVATION DIST.  
7/5/95  
DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH  
7/28/95  
DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

*[Signature]*  
CHIEF, BUREAU OF ENGINEERING  
7/19/95  
DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

*[Signature]*  
CHIEF, LAND DEVELOPMENT DIVISION  
7/19/95  
DATE  
*[Signature]*  
CHIEF, BUREAU OF HIGHWAYS  
7-19-95  
DATE

EXISTING PRIVATE DRIVEWAY TO BE UPGRADED TO MEET MINIMUM HOWARD COUNTY STANDARD FOR USE IN COMMON DRIVEWAYS.

PROPOSED PRIVATE DRIVEWAY TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL R6-06 IN HOWARD CO. DESIGN MANUAL VOLUME 32 (USE 15" PIPE CULVERT)

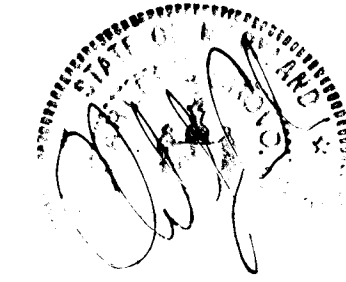
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
971 BALTIMORE NATIONAL PIKE, SUITE 100  
ELLICOTT CITY, MARYLAND 21042  
(410) 461-2855

**OWNER**  
DR. PETER C. SCHEIDT, TRUSTEE  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

**DEVELOPER**  
D. SUSAN SCHEIDT  
12730 HALL'S SHOP ROAD  
HIGHLAND, MARYLAND 20777

1	REVISED LOT LINES FOR LOTS 1, 2, AND 3	3/18/94
NO.	REVISIONS	DATE

**GRADING & SEDIMENT CONTROL PLAN**  
**PATERNAL GIFT FARM**  
TAX MAP No. 40 PARCELS 90, 179 AND 369  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
DATE: DECEMBER 16, 1994  
SCALE: AS SHOWN  
SHEET 21 OF 23

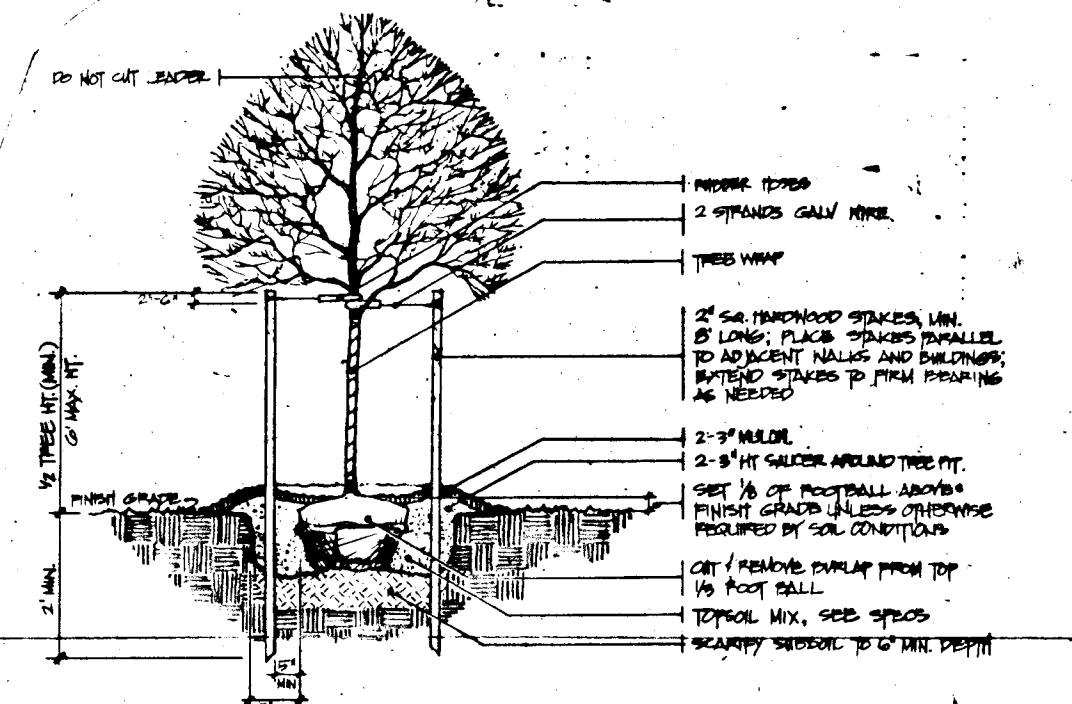


1741



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Date: 7/29/95  
 Chief, Division of Land Development and Research  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Date: 7/19/95  
 Chief, Land Development Division  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Date: 7-14-95  
 Chief, Bureau of Highways  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 Date: 7/12/95  
 Chief, Bureau of Engineering

Forest Conservation Area  
 REFORESTATION PROJECT  
 Trees for Your Future



DECIDUOUS TREE PLANTING (UP TO 3" CALIPER)

SEE PLANT LIST

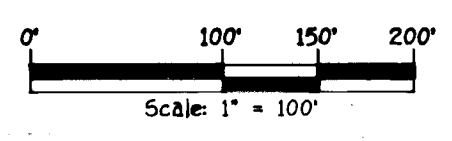
Qty	Key	Botanical/Common Name	Size	Remarks
42	M	Acer rubrum 'Red Sunset' Red Sunset Maple	13-15' ht. 2 1/2-3" cal.	B & B Full
57	A	Acer saccharum 'Green Mountain' Green Mountain Sugar Maple	13-15' ht. 2 1/2-3" cal.	B & B Full
38	P	Fraxinus americana 'Autumn Purple' Autumn Purple Ash (Seedless)	13-15' ht. 2 1/2-3" cal.	B & B Full
63	F	Fraxinus pennsylvanica 'Summit' Summit Green Ash	13-15' ht. 2 1/2-3" cal.	B & B Full
37	W	Quercus phellos Willow Oak	12-14' ht. 2 1/2-3" cal.	B & B Full
50	Q	Quercus rubra Red Oak	13-15' ht. 2 1/2-3" cal.	B & B Full
5	S	Picea abies Norway Spruce	6-8' ht.	B & B Full

GENERAL PLANTING NOTES

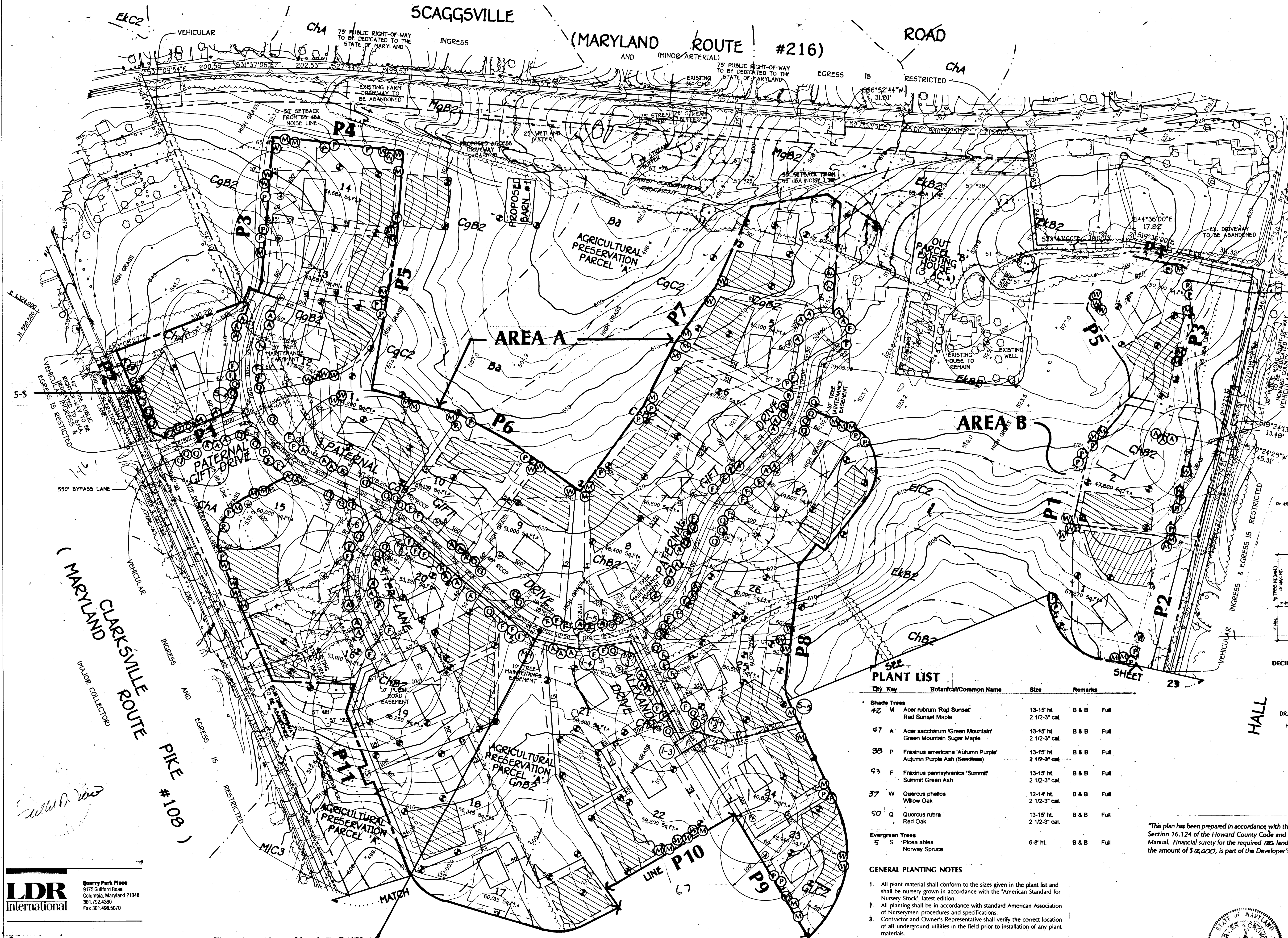
- All plant material shall conform to the sizes given in the plant list and shall be nursery grown in accordance with the "American Standard for Nursery Stock", latest edition.
- All planting shall be in accordance with standard American Association of Nurserymen procedures and specifications.
- Contractor and Owner's Representative shall verify the correct location of all underground utilities in the field prior to installation of any plant materials.
- Deciduous tree staking is optional based on plants exposure to high winds or if steep slopes are present.
- Plant material location to be flagged in the field and approved by the Owner prior to planting.
- All trees to be mulched to a depth of 3" unless otherwise indicated.
- All disturbed lawn areas shall be fine graded and seeded.

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DEVELOPER: D. SUSAN SCHEIDT  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777



LANDSCAPE PLAN  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: DECEMBER 16, 1994  
 SCALE: A5 SHOWN  
 SHEET 22 OF 23



Note: 6100 lf of R.O.W. requires 153 street trees (all street trees to be planted within the 10' wide landscape easement)

1	REVISED LOTS 1, 2, AND 3	3/8/92
NO.	REVISIONS	DATE

**LDR International**  
 Quarry Park Place  
 9175 Guilford Road  
 Columbia, Maryland 21046  
 301.792.4360  
 Fax 301.498.5070

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 9771 BALTIMORE NATIONAL PIKE, SUITE 100  
 ELLICOTT CITY, MARYLAND 21042  
 (410) 961-2925



APPROVED: DEPARTMENT OF PLANNING AND ZONING  
**Jim Stumm** 7/29/95  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
**John Dammann** 7/15/95  
 CHIEF, LAND DEVELOPMENT DIVISION DATE  
**Richard M. Smith** 7-14-95  
 CHIEF, BUREAU OF HIGHWAYS DATE  
**W. Scott Grooms** 7/12/95  
 CHIEF, BUREAU OF ENGINEERING DATE

SCHEDULE A PERIMETER LANDSCAPE EDGE AREA A

Category	Adjacent to Roadways	Adjacent to Perimeter Properties	A	A	A	A	A	A	A	A	A
Landscape Type	B	A	A	A	A	A	A	A	A	A	A
Linear Feet of Roadway Frontage/Perimeter	P2: 190 LF	P1: 170 LF	P3: 740 LF	P4: 240 LF	P5: 530 LF	P6: 520 LF	P7: 1240 LF	P8: 1175 LF	P9: 345 LF	P10: 360 LF	P11: 1750 LF
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	N/A	N/A	320 LF	N/A	N/A	N/A	440 LF	150 LF	N/A	N/A	1010 LF
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of Plants Required	190 = 50 + 4 TREES	0	320 = 60	240 = 60	530 = 60	520 = 60	715 = 60	1235 = 60	345 = 60	360 = 60	740 = 60
Shade Trees			= 7 TREES	= 5 TREES	= 9 TREES	= 8 TREES	= 13 TREES	= 20 TREES	= 5 TREES	= 6 TREES	= 13 TREES
Evergreen Trees	190 = 40 = 5 TREES										
Shrubs											
Number of Plants Provided	4 TREES	0	7 TREES	6 TREES	9 TREES	8 TREES	13 TREES	20 TREES	5 TREES	6 TREES	13 TREES
Shade Trees											
Evergreen Trees	5 TREES										
Other Trees (2:1 substitution)											
Shrubs (10:1 substitution)											
(Describe plant substitution credits below if needed)											

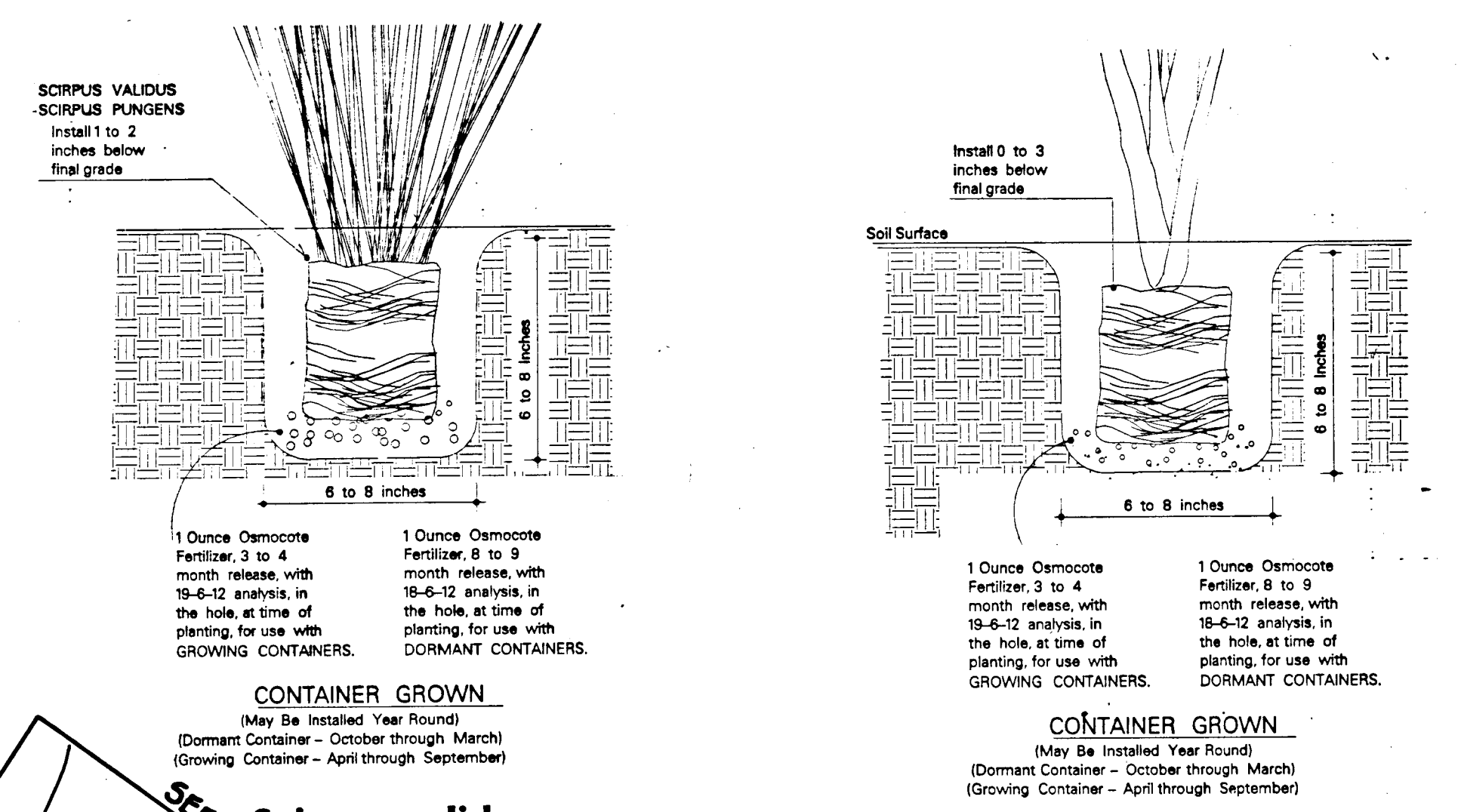
SCHEDULE A PERIMETER LANDSCAPE EDGE AREA B

Category	Adjacent to Roadways	Adjacent to Perimeter Properties	A	A	A
Landscape Type			A	A	A
Linear Feet of Roadway Frontage/Perimeter	P1: 950 LF	P2: 450 LF	P3: 330 LF	P4: 270 LF	P5: 320 LF
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)		150 LF			125 LF
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)					
Number of Plants Required	950 = 60	300 = 60	330 = 60	150 = 60	320 = 60
Shade Trees	= 15 TREES	= 5 TREES	= 5 TREES	= 3 TREES	= 5 TREES
Evergreen Trees					
Shrubs					
Number of Plants Provided	15 TREES	5 TREES	5 TREES	3 TREES	5 TREES
Shade Trees					
Evergreen Trees					
Other Trees (2:1 substitution)					
Shrubs (10:1 substitution)					
(Describe plant substitution credits below if needed)					

NOTE: SEE SHEET 22 OF 23 FOR AREAS A & B.

Min 11"  
 Forest Conservation Area  
 REFORESTATION PROJECT  
 Min 15"  
 Trees for Your Future

EMERGENT PLANTING DETAILS



SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING

Linear Feet of Perimeter	700
Number of Trees Required	
Shade Trees	
Evergreen Trees	
Credit for Existing Vegetation (No, Yes and %)	SEE NOTE BELOW
Credit for Other Landscaping (No, Yes and %)	400 SCIRPUS VALIDUS 1000 PONTERIDIA CORDATA
Number of Trees Provided	
Shade Trees	
Evergreen Trees	
Other Trees (2:1 substitution)	

ALTERNATE COMPLIANCE REQUEST

We are proposing to expand the existing farm pond to serve as a storm water management facility. The pond will not change much in size except to allow for a small water quality facility. The pond is screened from proposed home sites on one side by existing trees. On the other side visible from proposed home sites, the pond is setback approximately 200'. Minimal disturbance to existing grade is proposed as part of the pond upgrade. In addition, the pond is located in the agricultural preservation parcel. For these reasons we are requesting that the character of the pond be allowed to remain as is, and that additional plantings not be required.

OWNER: DR. PETER C. SCHEIDT, TRUSTEE  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

DEVELOPER: DR. SUSAN SCHEIDT  
 12730 HALL'S SHOP ROAD  
 HIGHLAND, MARYLAND 20777

LANDSCAPE PLAN  
**PATERNAL GIFT FARM**  
 TAX MAP No. 40 PARCELS 90, 179 AND 369  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 DATE: DECEMBER 16, 1994  
 SCALE: AS SHOWN  
 SHEET 23 OF 23

**LDR International**  
 Quarry Park Place  
 9175 Guilford Road  
 Columbia, Maryland 21046  
 301.792.4360  
 Fax 301.498.5070

**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 971 BALTIMORE NATIONAL PLE, SUITE 100  
 ELLICOTT CITY, MARYLAND 21042  
 410.481.2955

1	ADDED LOT 28 DELETED PARCEL C	3/18/94
NO.	REVISIONS	DATE

