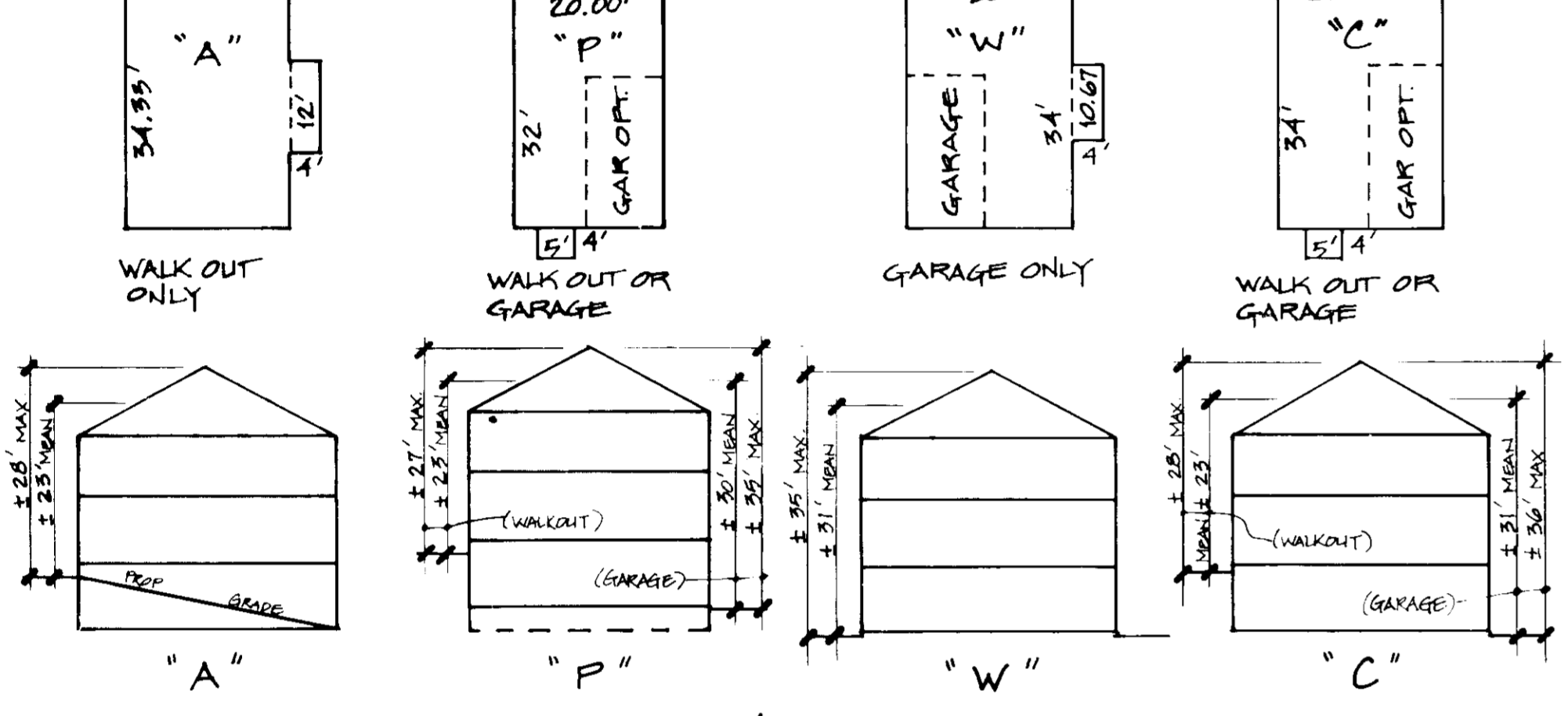


DENSITY TABULATION

SECTION	SECTION 2	SECTION 3	SECTION 4	SECTION 4	SECTION 4	SECTION 4	SECTION 4	SECTION 4	SECTION 4	SECTION 4	TOTAL
AREA 1 (PARCEL B)	AREA 1 (PARCEL C)	AREA 1 (PARCEL D)	AREA 1 (PARCEL E)	AREA 1 (PARCEL F)	AREA 1 (PARCEL G)	AREA 1 (PARCEL H)	AREA 1 (PARCEL I)	AREA 1 (PARCEL J)	AREA 1 (PARCEL K)	AREA 1 (PARCEL L)	
1. GROSS AREA	2.76	26.87	6.09	4.26	2.06	1.33	14.76	25.80	20.19	103.12	
2. FLOODPLAIN/STEEP SLOPES	0.00	2.23	1.20	0.00	0.00	0.00	0.00	10.42	1.02	14.67	
3. NET AREA	2.76	23.64	4.89	4.26	2.06	1.33	14.76	15.38	19.17	88.25	
4. NO. OF DWELLING UNITS ALLOWED (BASED ON MAX. DENSITY)	22.08	189.12	39.12	34.08	16.48	10.64	118.08	123.04	153.36	706.00	
5. FLOODPLAIN LOT ADJUSTMENT LOT ALLOWANCE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.30	15.34	37.60	
6. TOTAL NO. OF DWELLING UNITS ALLOWED	22.08	189.12	39.12	34.08	16.48	10.64	118.08	135.34	168.70	776.50	
7. TOTAL NO. DWELLING UNITS PROPOSED	0.00	216.00	33.00	40.00	16.00	10.00	150.00	56.00	194.00	775.00	
8. DENSITY PER ACRE	0.00	9.03	5.42	9.39	8.74	7.52	10.16	2.25	9.61	7.52	

SECTION	SECTION 1	SECTION 3	LIBRARY SITE (NO. 1)	SECTION 4	SECTION 4	SECTION 4	SECTION 4	SECTION 4	SECTION 4	TOTAL
AREA 1 (PARCEL A)	AREA 1 (PARCEL B)	AREA 1 (PARCEL C)	AREA 1 (PARCEL D)	AREA 1 (PARCEL E)	AREA 1 (PARCEL F)	AREA 1 (PARCEL G)	AREA 1 (PARCEL H)	AREA 1 (PARCEL I)	AREA 1 (PARCEL J)	
1. GROSS AREA	4.40	49.16	3.04	9.43	11.05	22.69	2.52	1.01	5.90	106.20
2. FLOODPLAIN/STEEP SLOPES	0.00	10.76	0.00	0.00	0.00	0.31	0.00	0.58	0.00	11.65
3. NET AREA	4.40	38.40	3.04	9.43	11.05	22.38	2.52	0.43	5.90	93.95
4. NO. OF DWELLING UNITS ALLOWED (BASED ON MAX. DENSITY)	17.60	153.60	12.16	21.72	44.20	89.52	10.08	1.72	23.60	374.19
5. FLOODPLAIN LOT ADJUSTMENT LOT ALLOWANCE	0.00	15.36	1.22	2.17	4.42	8.95	0.00	0.17	0.00	37.42
6. TOTAL NO. OF DWELLING UNITS ALLOWED	17.60	168.96	13.38	23.89	48.62	98.47	10.08	1.89	23.60	411.61
7. TOTAL NO. DWELLING UNITS PROPOSED	0.00	198.00	19.00	0.00	82.00	52.00	12.00	0.00	40.00	403.00
8. DENSITY PER ACRE	0.00	4.03	6.25	0.00	7.42	2.29	4.76	0.00	6.78	3.83

$(34.55' \times 22') + (12' \times 4') = 803.26 \text{ sq ft}$
 $(32' \times 20.00') + (5' \times 4') = 660.00 \text{ sq ft}$
 $(34' \times 22') + (10.01' \times 4') = 790.68 \text{ sq ft}$
 $(34' \times 20.00') + (5' \times 4') = 700.00 \text{ sq ft}$



TYPICAL BUILDING UNITS & ELEVATIONS
NOT TO SCALE

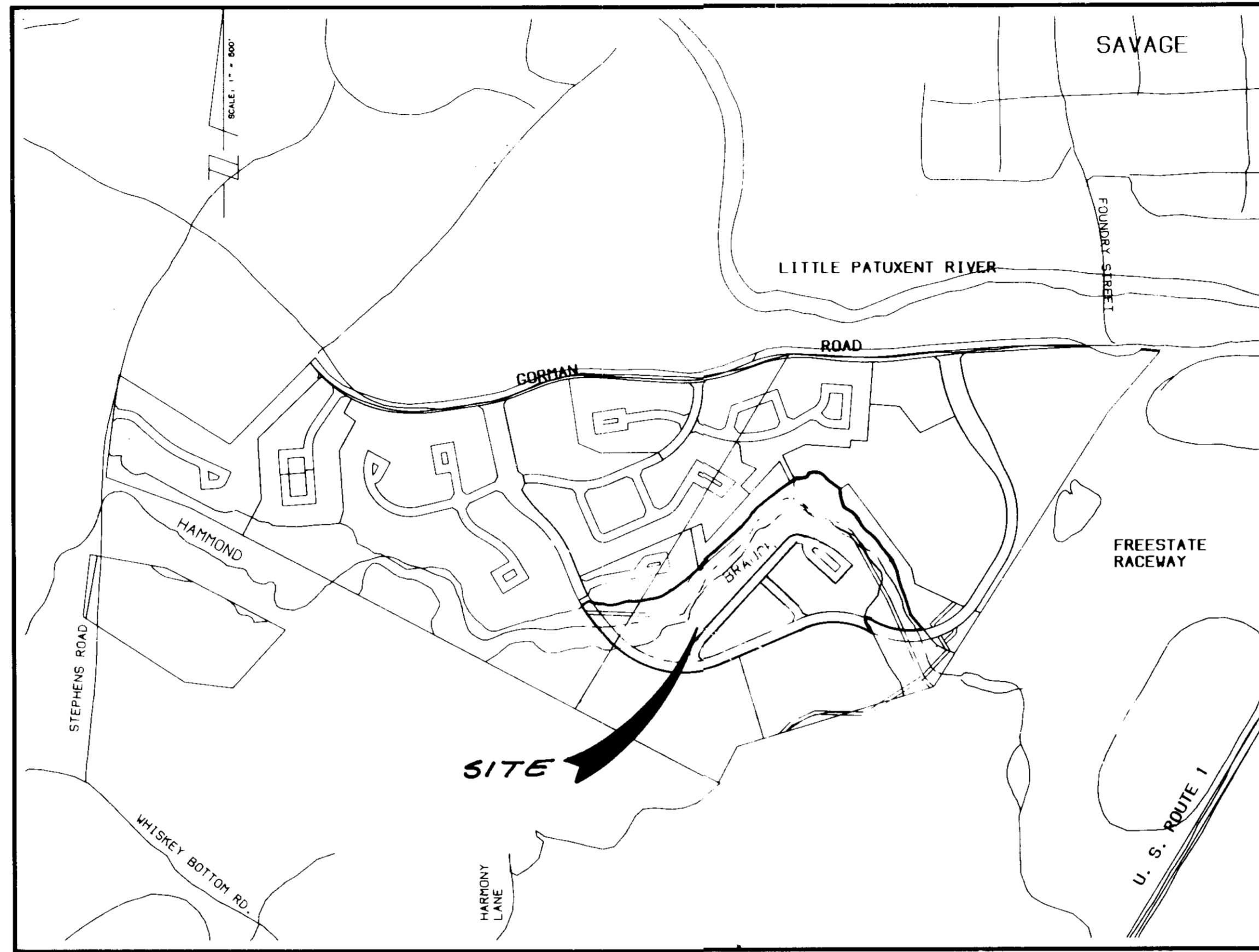
NOTE: FOR ADDITIONAL TYPICAL BUILDING UNITS AND ELEVATIONS, SEE SHEET 3 OF 9.

GENERAL NOTES

- APPROXIMATE LOCATION OF ALL UTILITIES IS SHOWN BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL LOCATE, PROTECT AND SUPPORT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER/INSPECTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
STATE HIGHWAY ADMINISTRATION - 531-5533
BALTIMORE GAS & ELECTRIC COMPANY - 561-2585 (CONTRACTOR SERVICES)
BALTIMORE GAS & ELECTRIC COMPANY - 234-6313 (UNDERGROUND DAMAGE CONTROL)
BALTIMORE GAS & ELECTRIC COMPANY - 298-9013 (TROUBLESHOOTING)
"MISS UTILITY" - 800-257-7777
CHESAPEAKE & POTOMAC (CAP) TELEPHONE COMPANY 725-9976
BUREAU OF UTILITIES/HOWARD COUNTY 992-2365
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION TWENTY-FOUR (24) HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-2630.
- ALL CONSTRUCTION SHALL CONFORM TO HOWARD COUNTY STANDARD DETAILS AND SPECIFICATIONS.
- ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY SPECIFICATIONS AND HOWARD COUNTY DESIGN MANUAL, VOLUME IV.
- ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST ADDITION AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- TREES SHALL BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT POSSIBLE. TREES SIX (6") INCH (6") DIAMETER OR GREATER (MEASURED FOUR FEET (4') ABOVE EXISTING GRADE ADJACENT TO THE LIMITS OF CONSTRUCTION SHALL NOT BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON HOWARD COUNTY GEODETIC SURVEY.
- TOPOGRAPHY TAKEN FROM MAPS PREPARED BY PHOTOGRAMMETRY BY "AERIAL SURVEYS" IN 1984. TOPOGRAPHY FIELD CHECKED 1985.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- ALL ROADS SHALL BE PAVED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAIL R-2.01, P-2. AN ALTERNATE PAVING SECTION P-1 MAY BE USED FOR PARKING AREAS OUTSIDE RIGHT-OF-WAY.
- STANDARD PARKING SPACES ARE 9' X 18' AND HANDICAPPED PARKING SPACES ARE 13' X 18'.
- PARKING AREAS SHALL MEET ALL ZONING REGULATIONS AND ALL DEPARTMENT OF PUBLIC WORKS PAVING SPECIFICATIONS.
- NUMBER OF PARKING SPACES PER DAY ARE INSCRIBED IN A CIRCLE.
- ALL STREET SIGNS SHALL CONFORM TO REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." THE FOLLOWING SIGNS ARE SHOWN ON THESE PLANS:
D-3 - STREET IDENTIFICATION SIGN
R2-1-1 - SPEED LIMIT SIGN
R1-1-1 - STOP SIGN
- THIS PROPERTY IS BOUNDED ON THE NORTH, EAST AND WEST BY HAMMOND BRANCH AND ON THE SOUTH BY KNIGHTS BRIDGE ROAD. THIS PROPERTY IS OWNED BY CORMAN ROAD LIMITED PARTNERSHIP AND ZONED RSA-B.
- SEE OPZ FILE NOS. VP-85-78, VP-85-78A-1, VP-85-78A-2, S-85-23, S-85-57, S-87-78, P-89-19, AND F-89-174.
- RESIDENTS WILL PROVIDE MODIFIED REFUSE COLLECTION.
- FIRE LINES SHALL BE MARKED IN ACCORDANCE WITH TITLE 21 OF THE HOWARD COUNTY CODE AND WHERE DESIGNATED BY COMMENTS OF THE OFFICE OF THE FIRE ADMINISTRATOR, DATED NOV 13, 1990.
- GARAGES SHALL BE USED FOR PARKING PURPOSES ONLY IN ACCORDANCE WITH SECTION 127.8.2(b)(8) OF THE ZONING REGULATIONS.

BOWLING BROOK FARMS

LOT I-1 THRU LOT I-117



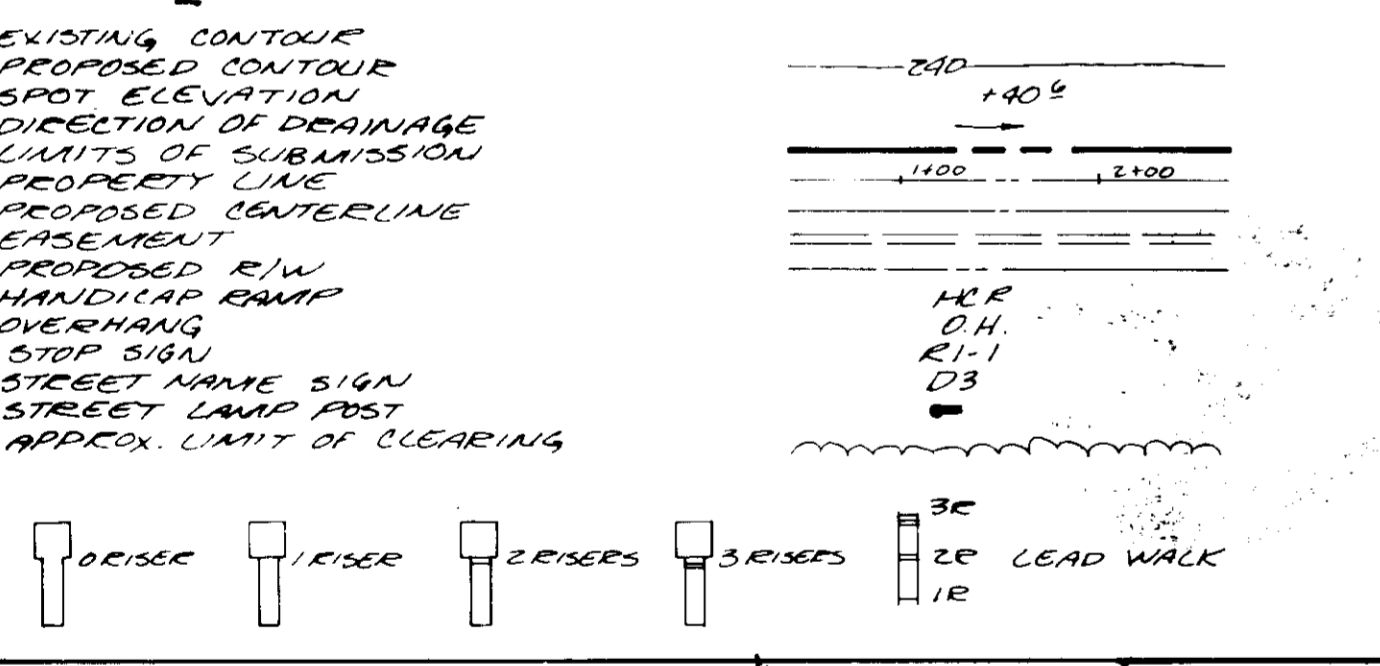
VICINITY MAP
SCALE: 1"=600'

LOT NO.	CELLAR ELEV. AT PROP. LINE	SHC ELEV.	LOT NO.	CELLAR ELEV. AT PROP. LINE	SHC ELEV.
1-1	226.67	222.91	1-67	192.00	186.64
1-2	226.67	222.54	1-68	192.00	187.67
1-3	226.67	222.19	1-69	192.00	188.62
1-4	226.67	221.83	1-70	192.00	189.57
1-5	225.33	220.67	1-71	192.00	188.02
1-6	225.33	219.91	1-72	192.00	189.64
1-7	225.00	219.15	1-73	192.00	192.04
1-8	224.00	218.40	1-74	192.00	192.64
1-9	221.33	216.35	1-75	192.00	192.76
1-10	221.33	215.59	1-76	192.00	192.76
1-11	219.33	214.83	1-77	203.00	192.03
1-12	219.33	214.07	1-78	203.00	192.03
1-13	217.33	213.31	1-79	203.00	193.14
1-14	216.67	212.55	1-80	203.00	193.00
1-15	216.00	212.17	1-81	203.00	201.99
1-16	216.00	211.44	1-82	207.00	201.59
1-17	213.33	209.01	1-83	208.33	201.63
1-18	213.33	208.26	1-84	208.33	202.07
1-19	212.00	207.52	1-85	209.00	202.30
1-20	212.00	206.77	1-86	209.00	202.54
1-21	210.00	206.02	1-87	209.67	202.78
1-22	210.00	205.27	1-88	209.67	203.02
1-23	208.67	204.53	1-89	209.00	203.66
1-24	208.67	203.78	1-90	209.00	203.90
1-25	207.00	203.02	1-91	208.33	204.14
1-26	207.00	202.26	1-92	208.33	204.26
1-27	205.00	201.51	1-93	217.00	204.69
1-28	205.00	199.68	1-94	217.00	205.44
1-29	203.67	199.22	1-95	216.67	206.19
1-30	203.67	198.47	1-96	216.67	206.94
1-31	202.33	197.71	1-97	217.67	207.69
1-32	202.33	197.25	1-98	217.67	207.93
1-33	200.67	195.41	1-99	215.67	203.20
1-34	200.67	195.77	1-100	215.67	203.95
1-35	200.00	195.14	1-101	217.00	204.69
1-36	200.00	193.91	1-102	217.00	205.44
1-37	199.33	192.86	1-103	216.67	206.19
1-38	199.33	192.22	1-104	216.33	206.94
1-39	198.66	191.04	1-105	216.67	207.69
1-40	198.66	190.24	1-106	216.67	208.43
1-41	197.00	190.64	1-107	222.67	210.45
1-42	196.00	190.10	1-108	222.67	211.20
1-43	194.67	189.45	1-109	224.00	211.92
1-44	193.67	188.81	1-110	224.00	212.66
1-45	192.33	188.17	1-111	225.33	213.40
1-46	192.33	187.53	1-112	225.33	214.20
1-47	191.66	186.89	1-113	223.33	214.94
1-48	191.66	186.25	1-114	227.33	215.72
1-49	189.67	183.30			
1-50	189.67	183.42			
1-51	188.33	183.53			
1-52	188.33	183.64			
1-53	188.33	183.82			
1-54	188.33	183.93			
1-55	188.33	183.98			
1-56	188.33	184.06			
1-57	189.00	184.10			
1-58	189.00	184.16			
1-59	189.67	184.95			
1-60	189.67	184.96			
1-61	190.33	185.04			
1-62	190.33	185.51			
1-63	191.00	185.97			
1-64	191.00	186.43			
1-65	191.33	187.14			
1-66	191.33	186.72			

23. THE WETLANDS (STREAM BUFFER) INDICATED ON THIS PLAN DOES NOT AFFECT THE INITIAL CONSTRUCTION OF A RESIDENTIAL LOT. IT DOES AFFECT SUBSEQUENT CLEARING, GRADING OR CONSTRUCTION IN THE BUFFER AREA. MAINTENANCE OF RESIDENCES, LANDSCAPING AND UTILITIES IS PERMITTED.

THIS PLAN SUPERCEDES PREVIOUSLY APPROVED SDP 91-51 SHEET 1 OF 9.

LEGEND



GROSS AREA TABULATION

LOTS I-1 THRU I-117	5.15 AC.
LOT I-115	1.37 AC.
LOT I-116	0.18 AC.
LOT I-117	4.36 AC.
LOT 223	8.55 AC.
LOT 221	2.55 AC.
ROAD R.O.W.	3.66 AC.
PARCEL I (TOTAL)	26.81 AC.
PARCEL C	20.19 AC.



SITE DEVELOPMENT PLAN

FOR REVISIONS BY BDET DATED 4/4/92 6/15/92

HOWARD COUNTY, MARYLAND

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.
Rosalyn Boller 2-27-92 DATE
APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
James Smith 3/12/92 DATE
Bluma Khoshdel 3/10/92 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
James Smith 4/2/92 DATE
DIRECTOR
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James Smith 2-24-92 DATE
CHIEF, BUREAU OF ENGINEERING

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

SIGNATURE DATE

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

APPROVED DATE

HOWARD SCD

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.
Rosalyn Boller 2-27-92 DATE
APPROVED HOWARD COUNTY DEPT. OF PLANNING AND ZONING.
James Smith 3/12/92 DATE
Bluma Khoshdel 3/10/92 DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
James Smith 4/2/92 DATE
DIRECTOR
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James Smith 2-24-92 DATE
CHIEF, BUREAU OF ENGINEERING

OWNER/DEVELOPER
CORMAN ROAD LIMITED PARTNERSHIP
c/o JAMES F. KNOTT DEVELOPMENT CORP.
110 WEST ROAD, SUITE 203
TOWSON, MARYLAND 21204

HOWARD COUNTY APPROVAL

INDEX TO DRAWINGS

- Title Sheet
- Site Development Plan
- Site Development Plan
- Detail Sheet
- Landscape Plan
- Landscape Plan
- Erosion and Sediment Control Plan
- Erosion and Sediment Control Plan
- Erosion and Sediment Control Detail Sheet

SITE ANALYSIS

Area of parcel	26.81 acres
Present zoning	RSC/RSA-8
Number of units allowed (based on net area)	124
Number of units proposed	114 units
Number of parking spaces required	228
Number of parking spaces provided (68 spaces of surface parking and 60 spaces located within driveways and garages)	228
Open space to remain on site	20.86 acres and 75.91%
Building coverage of site	1.80 acres and 6.73%
Public roads	3.66 acres and 17.88%

PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QUANTITY	REMARKS
Ar	Acer rubrum Red Maple	2 1/2" col. 13'-15'		BAB
C	Crotonia oxycantha 'Superba' Crimson Cloud Hawthorn	1 1/2"-1 3/4" col. 8'-10'		BAB
Kp	Koeleruteria paniculata Golden Rain Tree	2"-2 1/2" col. 8'-10'		BAB
Op	Quercus palustris Pin Oak	2 1/2" col. 13'-15'		BAB
Oph	Quercus phellos Willow Oak	1 1/2" col. 11'-13'		BAB
Sj	Sophora japonica 'Regent' Regent Scholar Tree	2 1/2" col. 11'-13'		BAB
Tc	Tilia cordata 'Greenspire' Greenspire Linden	2" col. 12'-14'		BAB
	FRUIT STRUBUS WHITE PINE	6" HT. 25		

WATER AND SEWER APPROVED UNDER CONTRACT NO. 24-1009-D

SUBDIVISION NAME	BOWLING BROOK FARMS	SECT./AREA	LOT/PARCEL #
			LOTS I-1 THRU I-117
PLAN # OR L/P	0094-10099	BLOCK #	ZONE
		110	RSC/RSA-B
TAX/ZONE MAP	47	ELEC. DIST.	6th
CONTR. NO.			606902
WATER CODE	C 03	SEWER CODE	727000

REVISIONS

No.	REVISIONS	DATE	CHKD.
1	SUBMITTED INTERIM PLANS TO CLIENT FOR REVIEW	2/6/92	
2	REVISED HOUSE TYPES (TYPICAL UNIT & ELEV.) PER I-1 TO I-24	2/4/92	
3	ADDED NOTE REF. ADDL. HOUSE TYPES ON SHT 3 OF 9	4/2/92	

PROFESSIONAL SEAL:
Kevin Johnson

PROJECT:
BOWLING BROOK FARMS
LOTS I-1 THRU I-24 & I-81 THRU I-117
A RESUBDIVISION OF LOT 220, BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
L. 1394 F. 632

TITLE:
TITLE SHEET

PHR&A
Pattton Harris Rust & Associates, p.c.
Engineers, Surveyors, Planners, Landscape Architects
7609 Stenshah Place
Rockville, Maryland 20855
301-762-2220 Baltimore Metro-792-7244

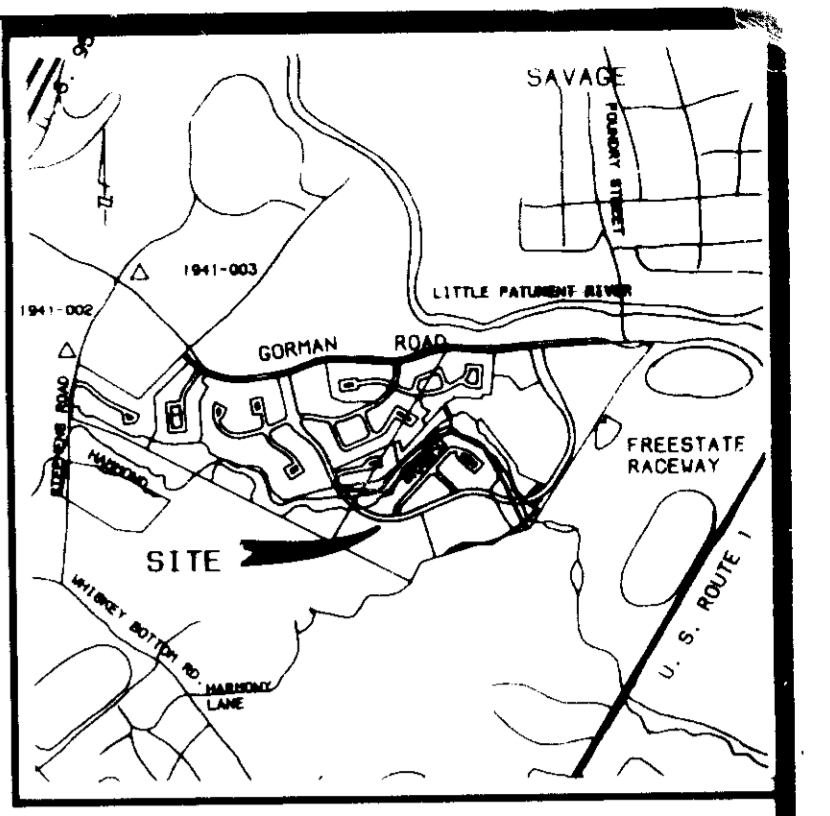
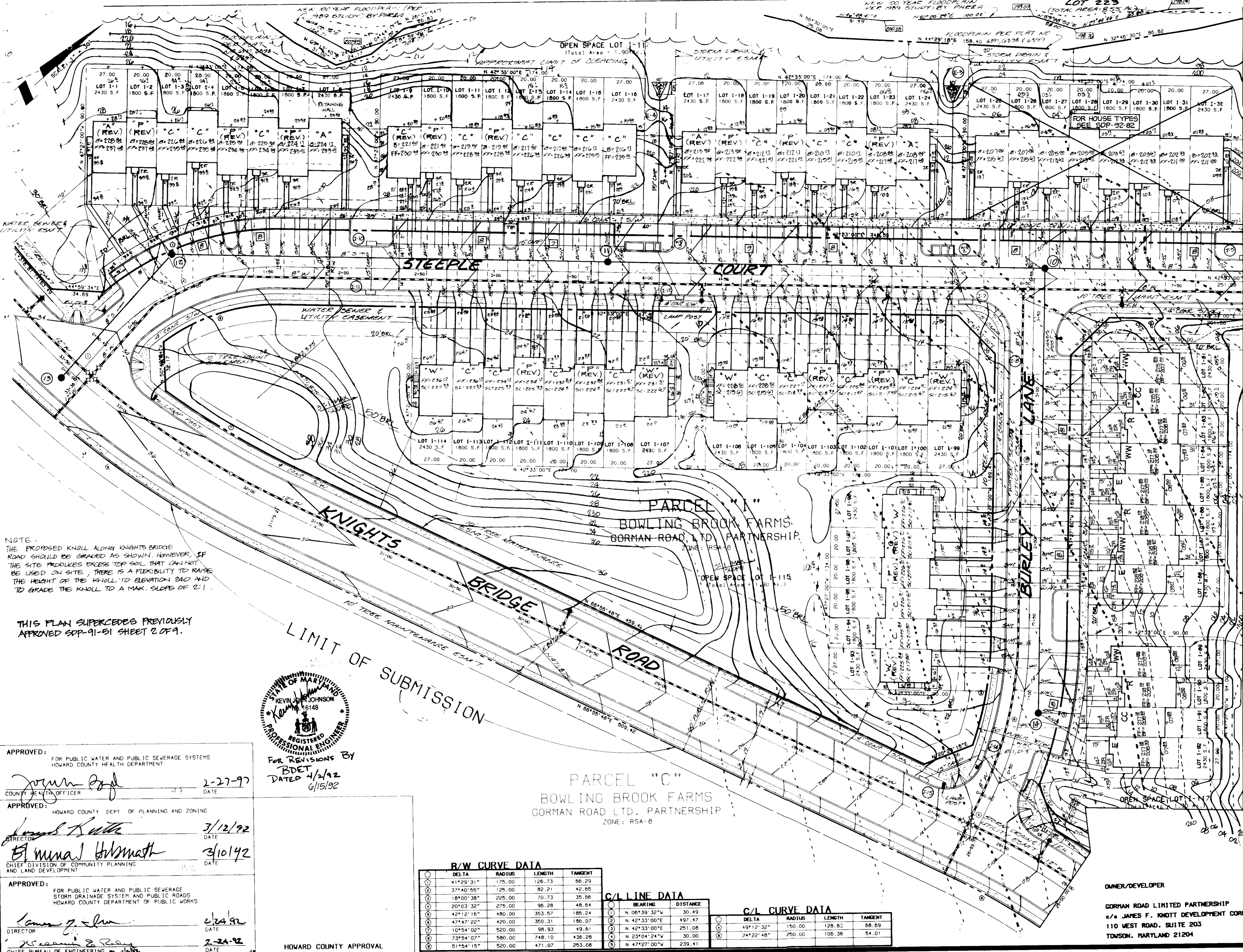
Offices:
Fairfax, Va.
Bridgewater, Va.
Leesburg, Va.
Rockville, Md.
Virginia Beach, Va.
Chantilly, Va.
Winchester, Va.

SURVEY: PHR&A DATE: 10/22/90

DESIGN: M.J.K. DRAWN: CADD

CHKD.: R.S.H. SCALE: AS SHOWN

SHEET 1 OF 9 FILE NO. 218



VICINITY MAP
SCALE 1"=2000'

LOT	STREET ADDRESS CHART	LOT	STREET ADDRESS CHART
I-1	9301 STEEPLE COURT	I-61	9416 STEEPLE COURT
I-2	9303 "	I-62	9414 "
I-3	9305 "	I-63	9412 "
I-4	9307 "	I-64	9410 "
I-5	9309 "	I-65	9408 "
I-6	9311 "	I-66	9404 "
I-7	9313 "	I-67	9402 "
I-8	9315 "	I-68	9400 "
I-9	9317 "	I-69	9398 "
I-10	9319 "	I-70	9396 "
I-11	9321 "	I-71	9394 "
I-12	9323 "	I-72	9392 "
I-13	9325 "	I-73	9388 "
I-14	9327 "	I-74	9386 "
I-15	9329 "	I-75	9384 "
I-16	9331 "	I-76	9382 "
I-17	9333 "	I-77	9380 "
I-18	9335 "	I-78	9378 "
I-19	9337 "	I-79	9376 "
I-20	9339 "	I-80	9374 "
I-21	9341 "	I-81	9224 BURLEY LANE
I-22	9343 "	I-82	9222 "
I-23	9345 "	I-83	9220 "
I-24	9347 "	I-84	9218 "
I-25	9349 "	I-85	9216 "
I-26	9351 "	I-86	9214 "
I-27	9353 "	I-87	9212 "
I-28	9355 "	I-88	9210 "
I-29	9357 "	I-89	9208 "
I-30	9359 "	I-90	9204 "
I-31	9361 "	I-91	9202 "
I-32	9363 "	I-92	9200 "
I-33	9365 "	I-93	9206 "
I-34	9367 "	I-94	9207 "
I-35	9369 "	I-95	9209 "
I-36	9371 "	I-96	9211 "
I-37	9373 "	I-97	9213 "
I-38	9375 "	I-98	9215 "
I-39	9377 "	I-99	9334 STEEPLE COURT
I-40	9379 "	I-100	9332 "
I-41	9381 "	I-101	9330 "
I-42	9383 "	I-102	9328 "
I-43	9385 "	I-103	9326 "
I-44	9387 "	I-104	9324 "
I-45	9389 "	I-105	9322 "
I-46	9391 "	I-106	9320 "
I-47	9393 "	I-107	9316 "
I-48	9395 "	I-108	9314 "
I-49	9397 "	I-109	9312 "
I-50	9399 "	I-110	9310 "
I-51	9401 "	I-111	9308 "
I-52	9403 "	I-112	9306 "
I-53	9405 "	I-113	9304 "
I-54	9407 "	I-114	9302 "
I-55	9409 "		
I-56	9411 "		
I-57	9413 "		
I-58	9415 "		
I-59	9417 "		
I-60	9419 "		

NOTE:
THE PROPOSED KNOLL ALONG KNIGHTS BRIDGE ROAD SHOULD BE GRADED AS SHOWN. HOWEVER, IF THE SITE PRODUCES EXCESS TOP SOIL THAT CAN NOT BE USED ON SITE, THERE IS A FLEXIBILITY TO RAISE THE HEIGHT OF THE KNOLL TO ELEVATION 240 AND TO GRADE THE KNOLL TO A MAX. SLOPE OF 2:1.

THIS PLAN SUPERCEDES PREVIOUSLY APPROVED SDR-91-51 SHEET 2 OF 9.



FOR REVISIONS BY
BDET
DATED 4/1/92
6/15/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
2-27-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
3/12/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
2-24-92

HOWARD COUNTY APPROVAL

PARCEL "C"
BOWLING BROOK FARMS
GORMAN ROAD LTD. PARTNERSHIP
ZONE: RSA-8

R/W CURVE DATA

Δ	DELTA	RADIUS	LENGTH	TANGENT
1	111°29'31"	175.00	126.73	66.29
2	37°40'55"	125.00	82.21	42.05
3	18°00'38"	225.00	70.73	35.66
4	20°03'32"	275.00	96.28	48.64
5	42°12'16"	480.00	353.57	185.24
6	47°47'22"	420.00	350.31	186.07
7	10°54'02"	920.00	98.93	49.61
8	73°54'07"	580.00	748.10	436.28
9	51°54'15"	520.00	471.07	253.08

C/L LINE DATA

Δ	BEARING	DISTANCE
1	N 06°39'32"W	30.49
2	N 42°33'00"E	497.47
3	N 42°33'00"E	251.08
4	N 23°04'24"W	30.00
5	N 47°27'00"W	239.41

C/L CURVE DATA

Δ	DELTA	RADIUS	LENGTH	TANGENT
1	19°12'32"	150.00	128.82	68.59
2	24°22'48"	250.00	106.38	54.01

REVISIONS

No.	REVISIONS	DATE	CHKD.
1	SUBMITTED TO HOWARD COUNTY FOR REVIEW	10/24/90	
2	REVISED PAD ELEVATION AND REDUCED KNOLL HEIGHT & SLOPE	6/1/91	
3	SUBMITTED INTERIM PRINTS TO CLIENT FOR REVIEW	9/16/91	
4	REVISED HOUSE TYPES LOTS I-1 TO I-24 & I-81 TO I-114 FOR WASHINGTON HONORS	2/4/92	
5	REVISED HOUSE TYPES ON LOTS I-81 THRU I-92	4/2/92	

PROFESSIONAL SEAL:

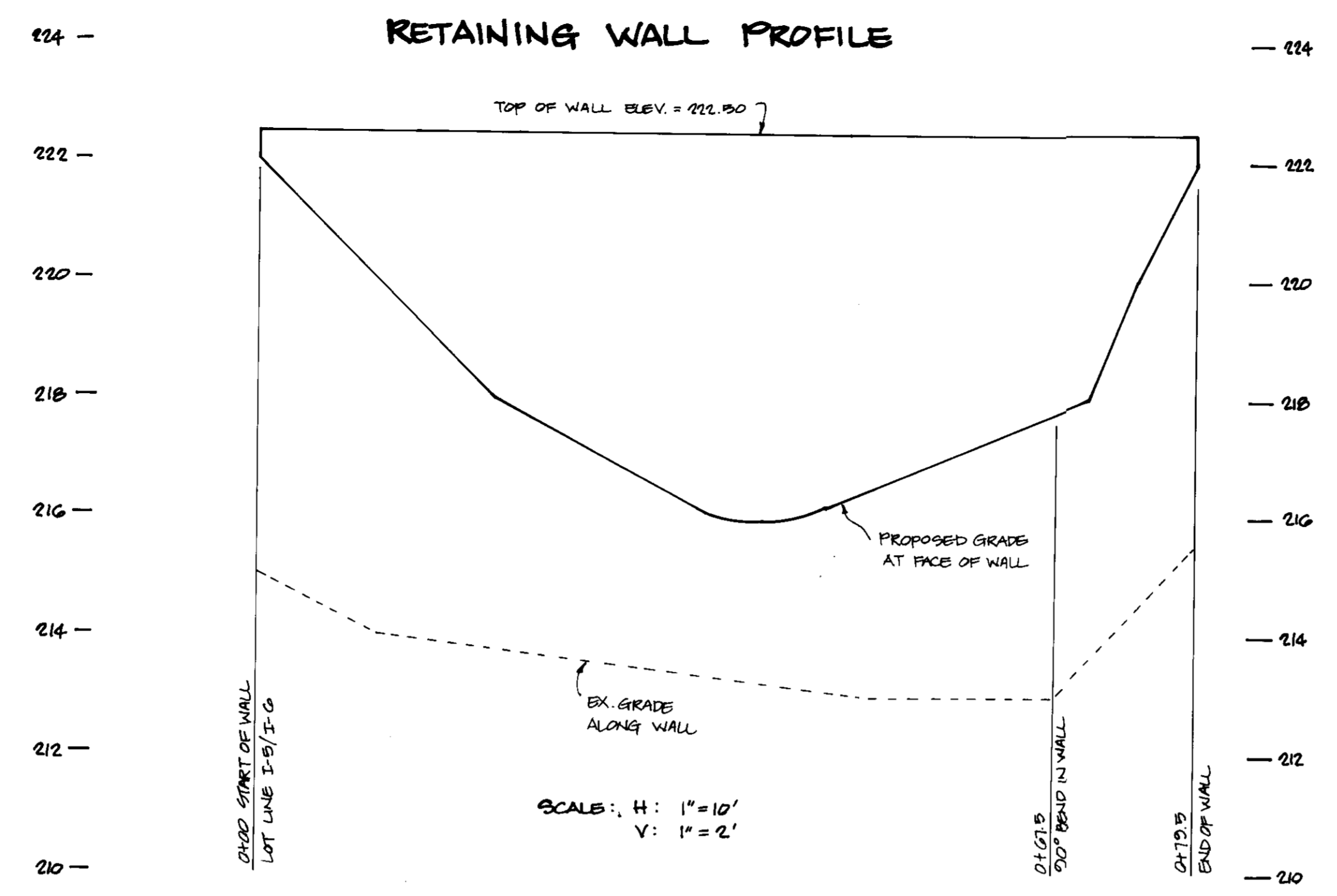
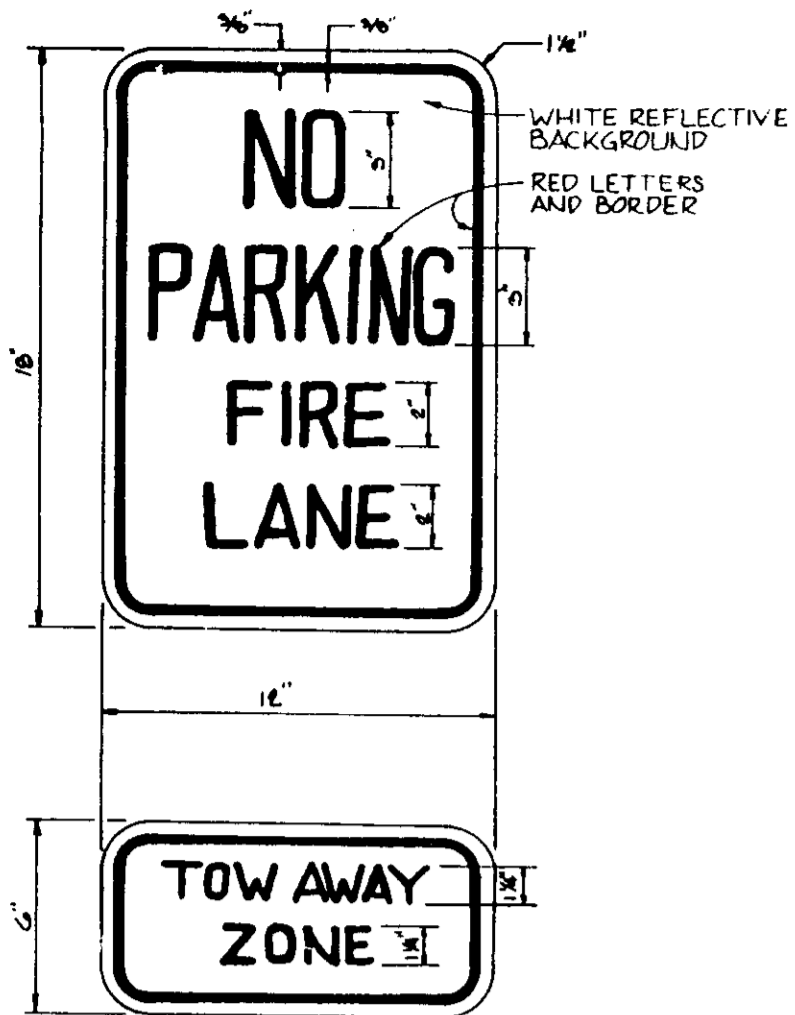
PROJECT:
BOWLING BROOK FARMS
LOTS I-1 THRU I-24 & I-81 THRU I-117
A RESUBDIVISION OF LOT 220, BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
L. 1394 F. 632

TITLE:
SITE DEVELOPMENT PLAN

PHR&A
Potton Harris Rust & Associates, P.C.
Engineers, Surveyors, Planners, Landscape Architects
7809 Stensien Place
Rockville, Maryland 20855
301-762-2220
Baltimore Metro: 792-7244

SURVEY PHR&A DATE 10/22/90
DESIGN M.J.K. DRAWN CADD
CHKD. R.S.H. SCALE 1" = 30'
SHEET 2 OF 9 FILE NO. 2184-1-11

SDR-91-51



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM,
HOWARD COUNTY HEALTH DEPARTMENT.

Joyce M. [Signature] 10/11/91
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

[Signature] 11/4/91
PLANNING DIRECTOR DATE

[Signature] 11/19/91
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM
DRAINAGE SYSTEMS AND PAVEMENT ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 02/19/91
DIRECTOR DATE

[Signature] 10-8-91
CHIEF, BUREAU OF ENGINEERING DATE



FOR REVISIONS
BY B.D.E.T.
DATED: 6/15/92

OWNER/DEVELOPER
GORHAM ROAD LIMITED PARTNERSHIP
c/o JAMES F. KNOTT DEVELOPMENT CORP.
110 WEST ROAD, SUITE 203
TOWSON, MARYLAND 21284

No.	REVISIONS	DATE	CHKD.
1	SUBMITTED TO HOWARD COUNTY FOR REVIEW	10/22/90	
2	SUBMITTED INTERIM PRINTS TO CLIENT FOR REVIEW	06/91	
3	SUBMITTED TO HO. CO. FOR SIGNATURE	9/11/91	

PROFESSIONAL SEAL:
[Signature]

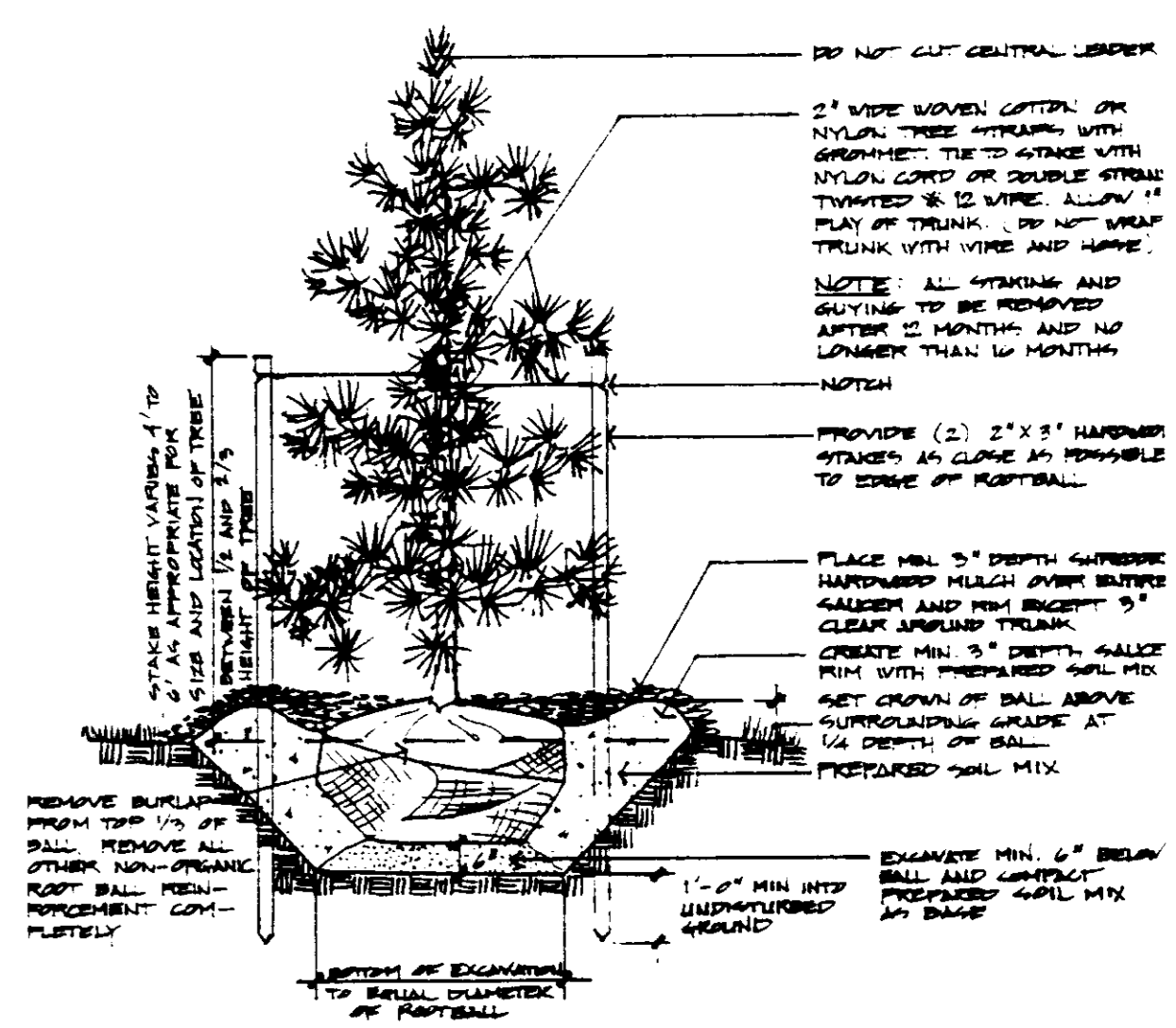
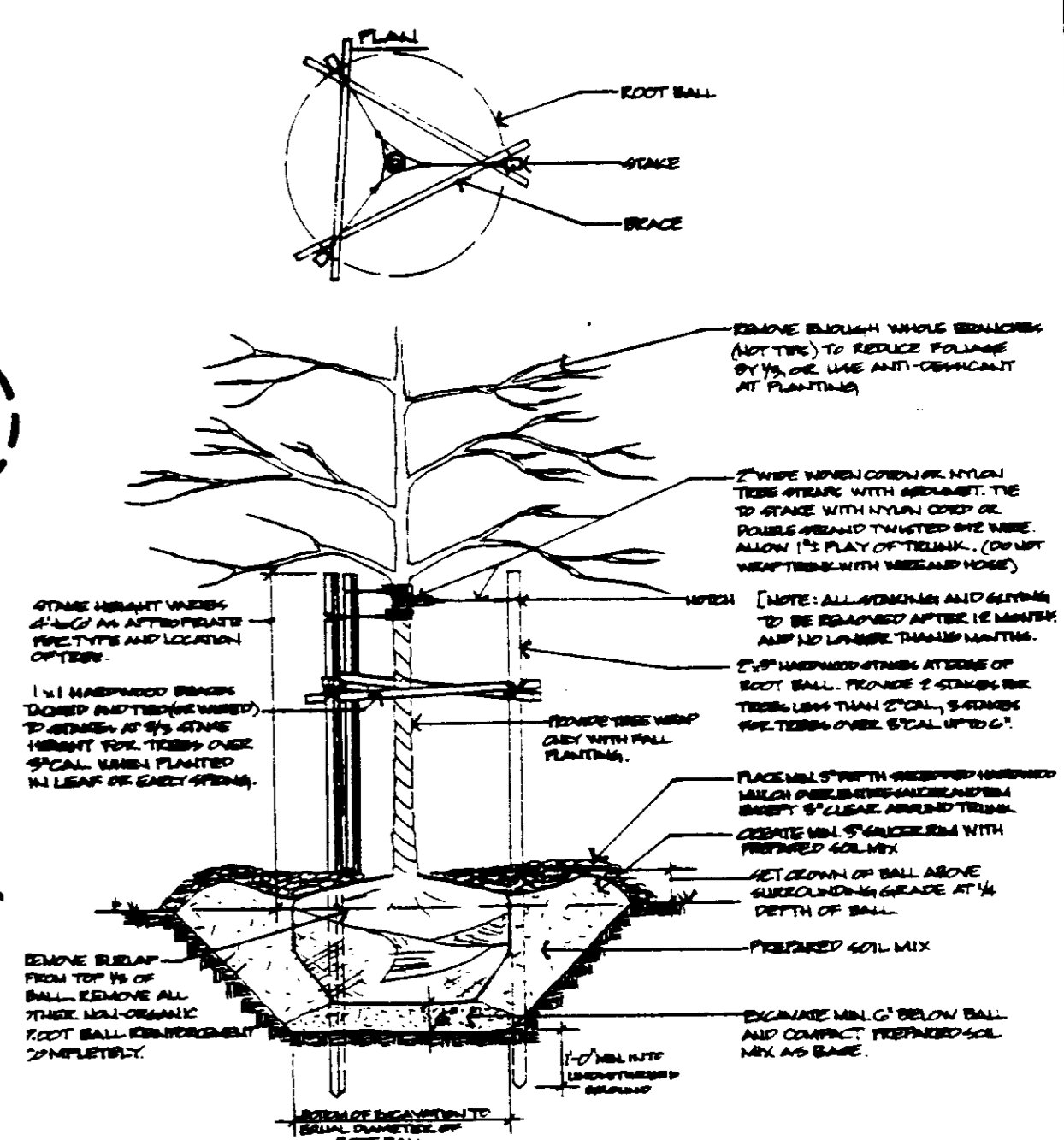
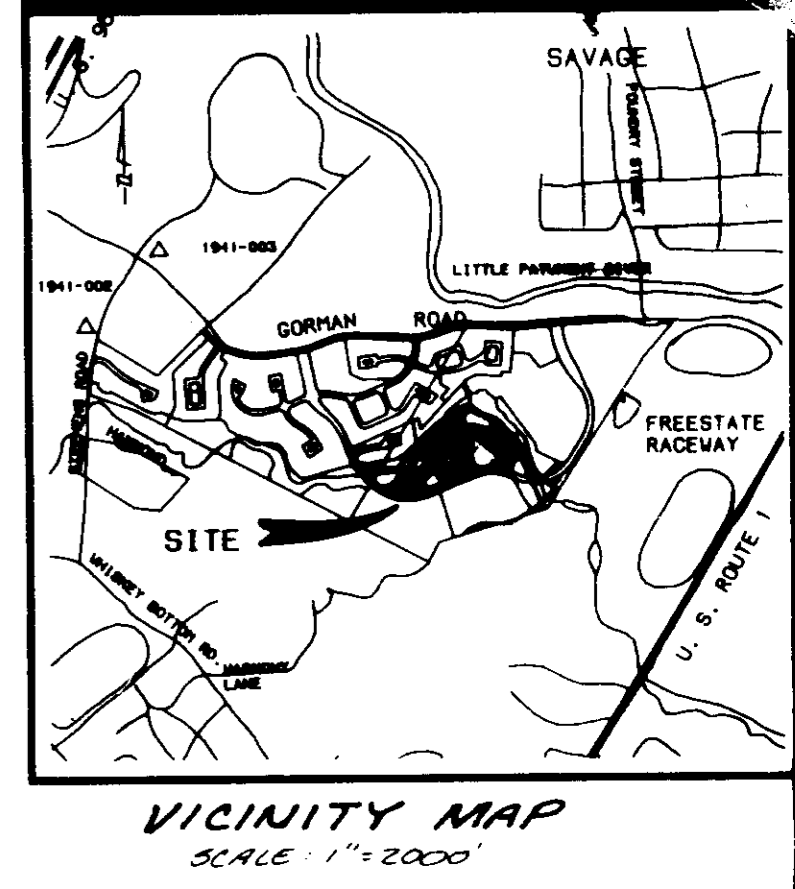
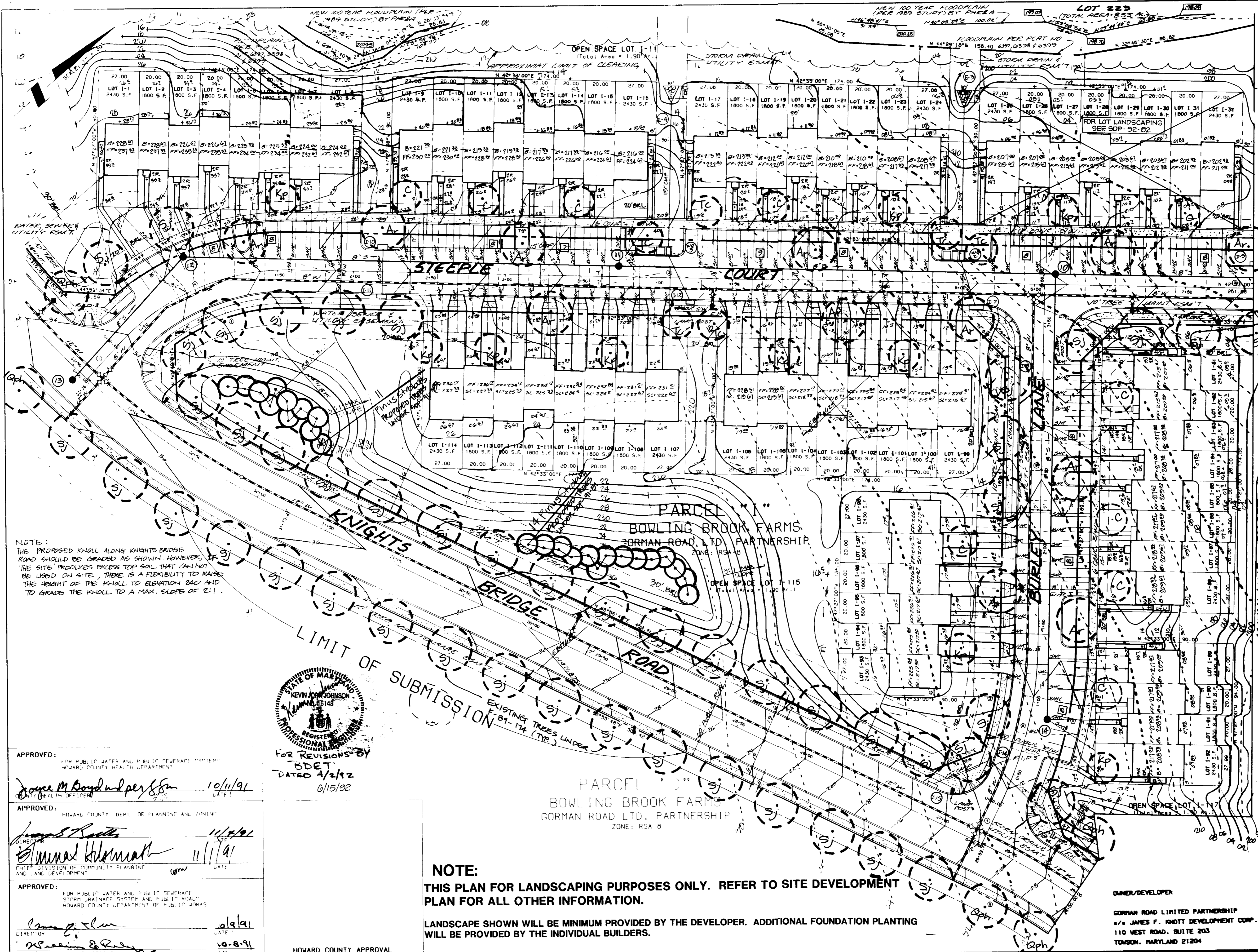
PROJECT:
BOWLING BROOK FARMS
LOTS I-1 THRU I-24 & I-81 THRU I-117
A RESUBDIVISION OF LOT 220, BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
L. 1394 F. 632

TITLE:
DETAIL SHEET

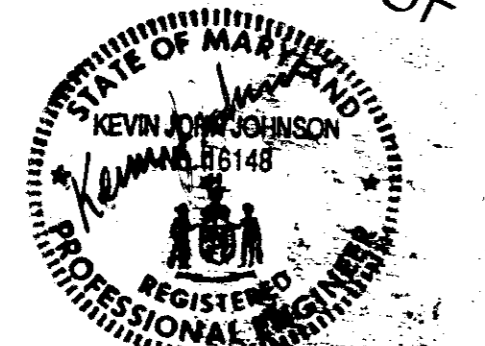
PHR&A
Patton Harris Rust & Associates, p.c.
Engineers, Surveyors, Planners, Landscape Architects
7629 Standish Place
Roxville, Maryland 20855
811-762-2220 Baltimore Metro: 792-7244

Offices:
Fairfax, Va.
Bridgewater, Va.
Leesburg, Va.
Rockville, Md.
Virginia Beach, Va.
Chantilly, Va.
Winchester, Va.

SURVEY	PHR&A	DATE	10/22/90
DESIGN	M.J.K.	DRAWN	R.L.P.
CHKD.	R.S.H.	SCALE	AS SHOWN
SHEET	4 OF 9	FILE NO.	2184-1-11



NOTE:
THE PROPOSED KNOLL ALONG KNIGHTS BRIDGE ROAD SHOULD BE GRADED AS SHOWN. HOWEVER, IF THE SITE PRODUCES EXCESS TOP SOIL THAT CAN NOT BE USED ON SITE, THERE IS A FLEXIBILITY TO RAISE THE HEIGHT OF THE KNOLL TO ELEVATION 240 AND TO GRADE THE KNOLL TO A MAX. SLOPE OF 2:1.



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd, Health Officer, 10/11/91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
James M. Boyd, Director, 11/11/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Boyd, Director, 10/8/91

FOR REVISIONS BY BDET DATED 4/2/92 6/15/92

HOWARD COUNTY APPROVAL

PARCEL "1"
BOWLING BROOK FARMS
GORMAN ROAD LTD. PARTNERSHIP
ZONE: RSA-B

NOTE:
THIS PLAN FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE DEVELOPMENT PLAN FOR ALL OTHER INFORMATION.
LANDSCAPE SHOWN WILL BE MINIMUM PROVIDED BY THE DEVELOPER. ADDITIONAL FOUNDATION PLANTING WILL BE PROVIDED BY THE INDIVIDUAL BUILDERS.

OWNER/DEVELOPER
GORMAN ROAD LIMITED PARTNERSHIP
c/o JAMES F. KNOTT DEVELOPMENT CORP.
110 WEST ROAD, SUITE 203
TOWSON, MARYLAND 21284

No.	REVISIONS	DATE	CHKD
1	SUBMITTED TO HOWARD COUNTY FOR REVIEW	10/22/90	
2	REVISED PAD ELEVATION AND REDUCED KNOLL HEIGHT & SLOPE	8/91	
3	ADDITION OF TREES AT ISLAND KNOLL	8/91	
4	REVISED PER DPZ COMMENTS (MEETING)	8/91	
5	SUBMITTED INTERIM PRINTS TO CLIENT FOR REVIEW	9/6/91	
6	SUBMITTED TO HO. CO. FOR SIGNATURE	9/15/91	
7	REVISED TREE LOC., LOTS I-82, I-86, I-90	4/2/92	

PROFESSIONAL SEAL:
Kevin Johnson
Registered Professional Engineer
License No. 18148

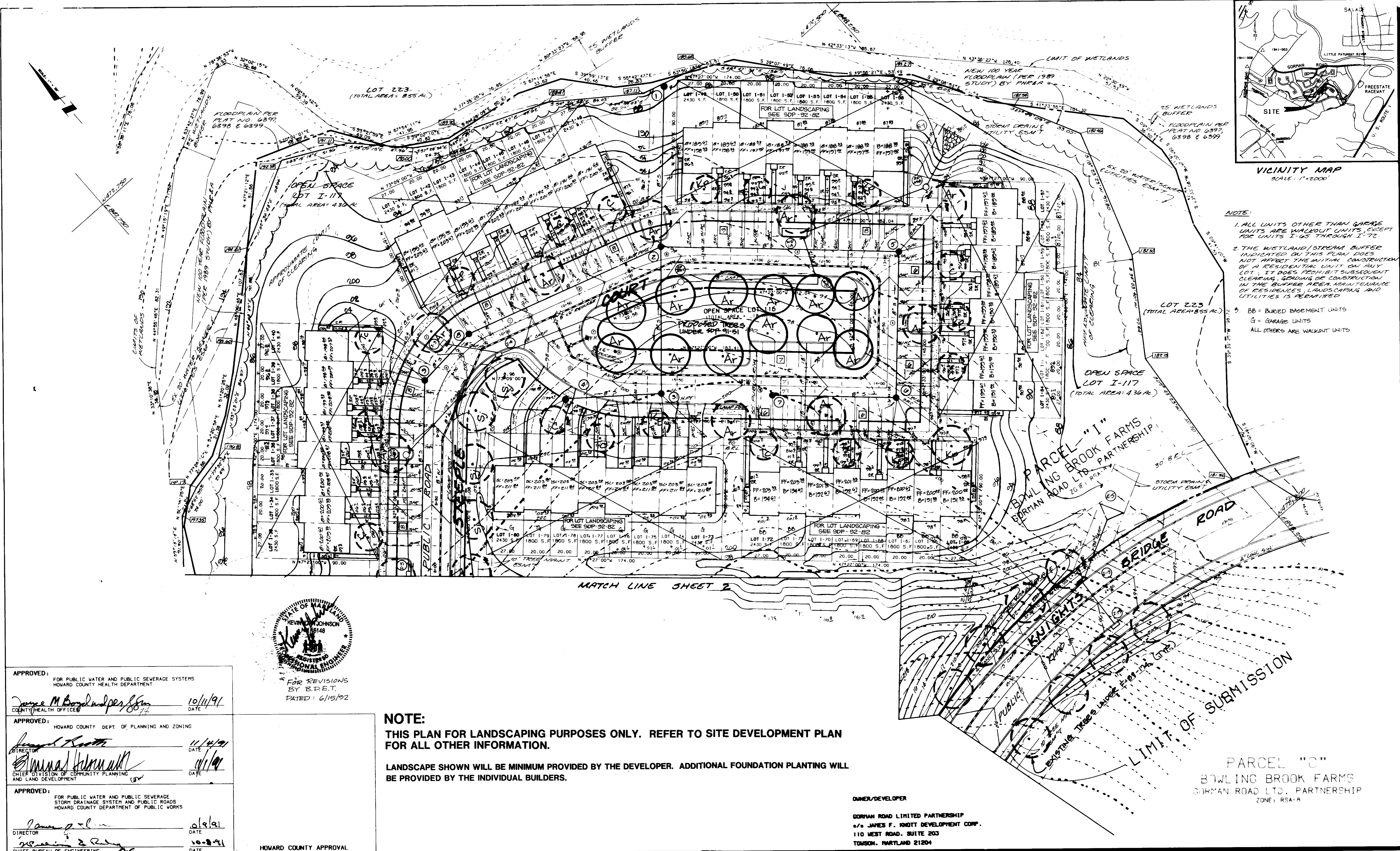
PROJECT:
BOWLING BROOK FARMS
LOTS I-1 THRU I-24 & LOTS I-81 THRU I-117
A RESUBDIVISION OF LCT 220, BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
L. 1394 F. 632

TITLE:
LANDSCAPE PLAN

PHR&A
Polton Harris Rust & Associates, P.C.
Engineers, Surveyors, Planners, Landscape Architects
7009 Stenslieh Place
Rockville, Maryland 20855
301-782-2200 Baltimore Metro-792-7244

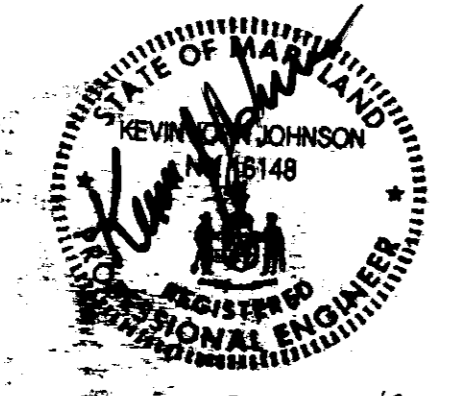
Offices:
Fairfax, Va.
Bridgeport, Va.
Leesburg, Va.
Rockville, Md.
Virginia Beach, Va.
Chantilly, Va.
Winchester, Va.

SURVEY	PHR&A	DATE	10/22/90
DESIGN	M. J. K.	DRAWN	CADD
CHKD.	R. S. H.	SCALE	1" = 30'
SHEET	5 OF 9	FILE NO.	2184-1-11



NOTE:

1. ALL UNITS OTHER THAN GARAGE UNITS ARE WALKOUT UNITS, EXCEPT FOR UNITS I-65 THROUGH I-77.
2. THE WETLAND/STREAM BUFFER INDICATED ON THIS PLAN DOES NOT AFFECT THE INITIAL CONSTRUCTION OF A RESIDENTIAL UNIT ON ANY LOT. IT DOES PROHIBIT SUBSEQUENT CLEARING, GRADING OR CONSTRUCTION IN THE BUFFER AREA MAINTENANCE OF RESERVES, LANDSCAPING AND UTILITIES IS PERMITTED.
3. BB = BURIED BASEMENT UNITS
G = GARAGE UNITS
ALL OTHERS ARE WALKOUT UNITS



FOR REVISIONS BY B.D.E.T. DATED: 6/15/92

NOTE:
THIS PLAN FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE DEVELOPMENT PLAN FOR ALL OTHER INFORMATION.

LANDSCAPE SHOWN WILL BE MINIMUM PROVIDED BY THE DEVELOPER. ADDITIONAL FOUNDATION PLANTING WILL BE PROVIDED BY THE INDIVIDUAL BUILDERS.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
James M. Boyd 10/11/91
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
James M. Boyd 11/14/91
DIRECTOR DATE
Anna H. Hornum 11/14/91
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEM AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Boyd 01/09/92
DIRECTOR DATE
William E. Rely 10-2-91
CHIEF BUREAU OF ENGINEERING DATE

HOWARD COUNTY APPROVAL

OWNER/DEVELOPER
BOWLING BROOK FARMS
GORMAN ROAD LTD. PARTNERSHIP
110 WEST ROAD, SUITE 203
TOWSON, MARYLAND 21284

PARCEL "C"
BOWLING BROOK FARMS
GORMAN ROAD LTD. PARTNERSHIP
ZONE: RSA-A

No.	REVISIONS	DATE	CHKD.
1	SUBMITTED TO HOWARD COUNTY FOR REVIEW	09/21/90	
2	REVISED PAD ELEVATION AND REDUCED KNOWHEIGHT & SLOPE	01/01	
3	REVISED PER DPE COMMENTS (MEETING 2/91)	2/6/91	
4	SUBMITTED INTERIM PRINTS TO CLIENT FOR REVIEW	9/11/91	

PROFESSIONAL SEAL:
Kevin Johnson

PROJECT:
BOWLING BROOK FARMS
LOTS I-1 THRU I-24 & LOTS I-81 THRU I-117
A RESUBDIVISION OF LOT 220, BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
L. 1394 F. 632

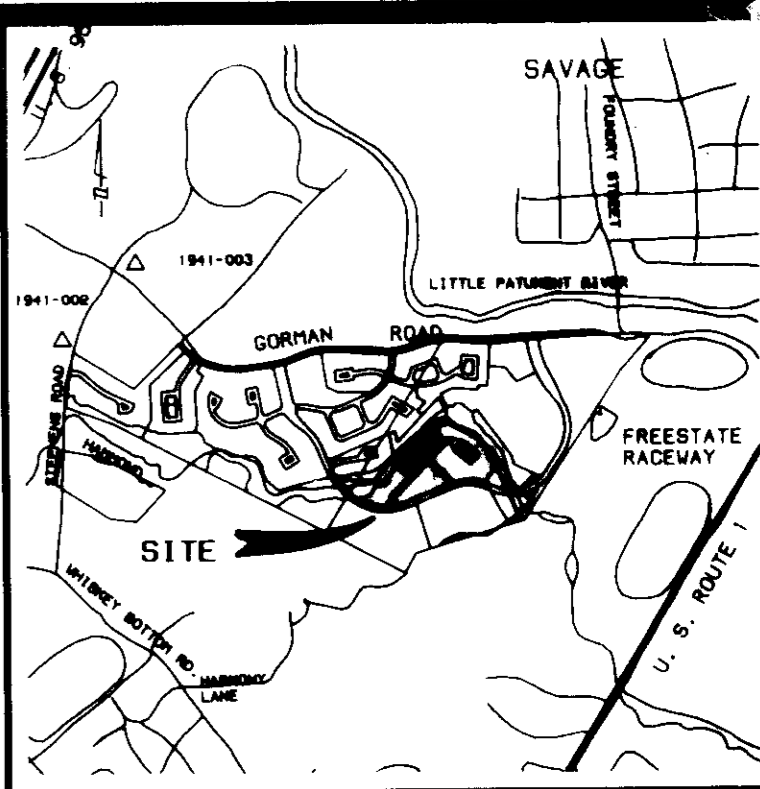
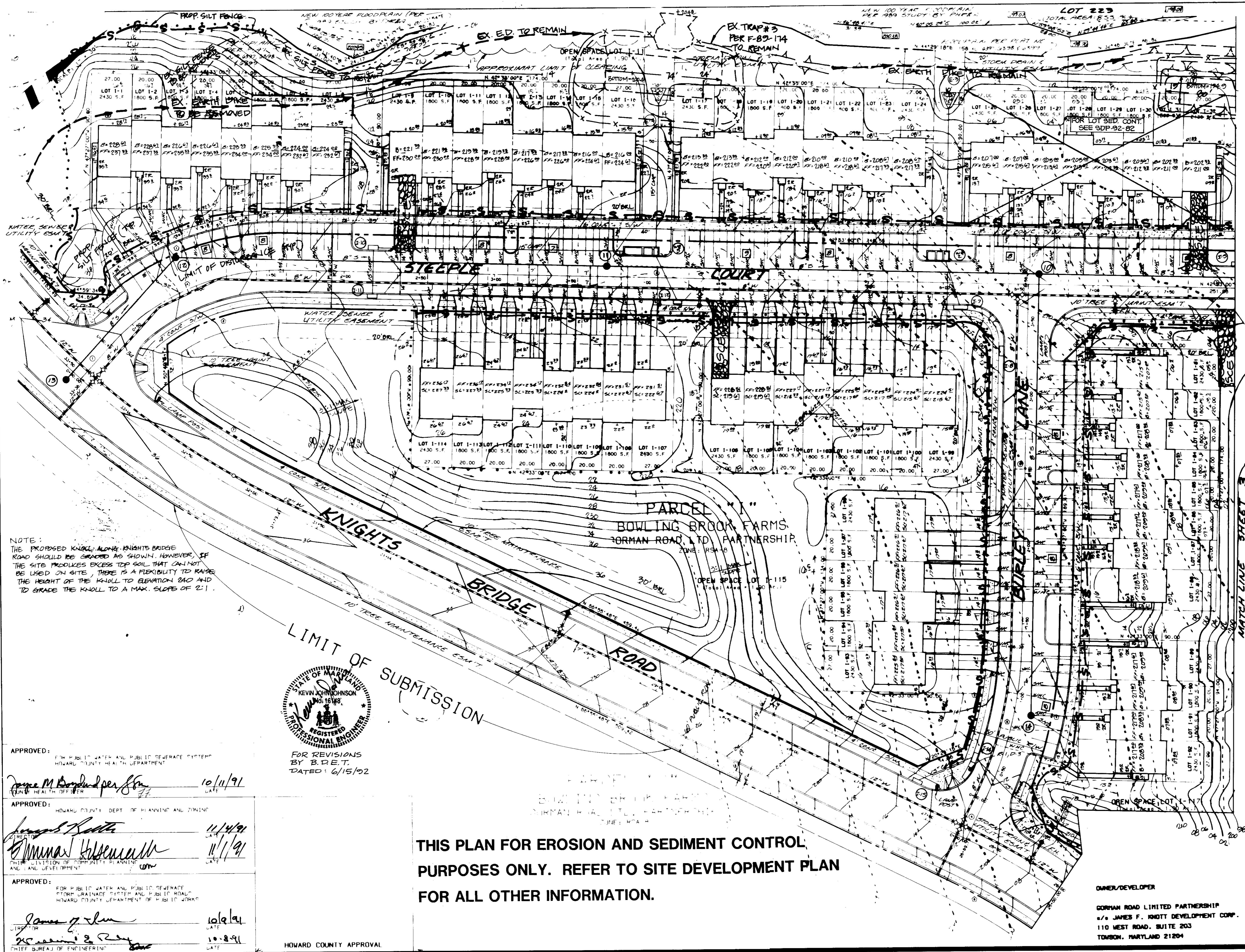
TITLE:
LANDSCAPE PLAN

PHR&A
Patten Harris Rutt & Associates, Inc.
Engineers, Surveyors, Planners, Landscape Architects
7609 Steeles Place
Rockville, Maryland 20850
301-766-0000

Offices:
Fairfax, Va.
Bridgewater, Va.
Leesburg, Va.
Rockville, Md.
Virginia Beach, Va.
Thantilly, Va.
Winchester, Va.

SURVEY	PHR&A	DATE	10/22/90
DESIGN	M. J. K.	DRAWN	CADD
CHKD.	R. S. H.	SCALE	1" = 30'
6 9		2184-1-11	

SDP 91.51



NOTE:
ALL CONCENTRATED FLOW AREA MUST RECEIVE SOIL STABILIZATION MATTING PER DETAIL ON SHEET 9.

NOTE:
THE PROPOSED KNOLL ALONG KNIGHTS BRIDGE ROAD SHOULD BE GRADED AS SHOWN. HOWEVER, IF THE SITE PRODUCES EXCESS TOP SOIL THAT CAN NOT BE USED ON SITE, THERE IS A FLEXIBILITY TO RAISE THE HEIGHT OF THE KNOLL TO ELEVATION 240 AND TO GRADE THE KNOLL TO A MAX. SLOPE OF 2:1.



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
James M. Bonded per [Signature] 10/11/91
APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING
[Signature] 11/14/91
[Signature] 11/11/91
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEM AND PUBLIC ROAD
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 10/6/91
[Signature] 10/8/91
HOWARD COUNTY APPROVAL

FOR REVISIONS
BY B.D.E.T.
DATED: 6/15/92

THIS PLAN FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY. REFER TO SITE DEVELOPMENT PLAN FOR ALL OTHER INFORMATION.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS.

[Signature] 10/3/91
U.S. Soil Conservation Service Date

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

APPROVED *[Signature]* 10/2/91
Howard S C D Date
PLAN NUMBER SAP-91-51

DEVELOPER'S/BUILDER'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 inspections by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

[Signature] 9/11/91
Signature of Developer/Builder Date

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 conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature] 9/11/91
Signature of Engineer Date

OWNER/DEVELOPER
GORMAN ROAD LIMITED PARTNERSHIP
c/o JAMES F. KNIGHT DEVELOPMENT CORP.
110 WEST ROAD, SUITE 203
TOWSON, MARYLAND 21284

No.	REVISIONS	DATE	CHKD.
1	SUBMITTED TO HOWARD COUNTY FOR REVIEW	10/22/90	
2	REVISED PAD ELEVATION AND REDUCED KNOLL HEIGHT & SLOPE	8/91	
3	REVISED PERKINSON COMMENTS	9/6/91	
4	SUBMITTED PRINTS (CENTER) TO CLIENT FOR REVIEW	9/11/91	

PROFESSIONAL SEAL:
[Signature]

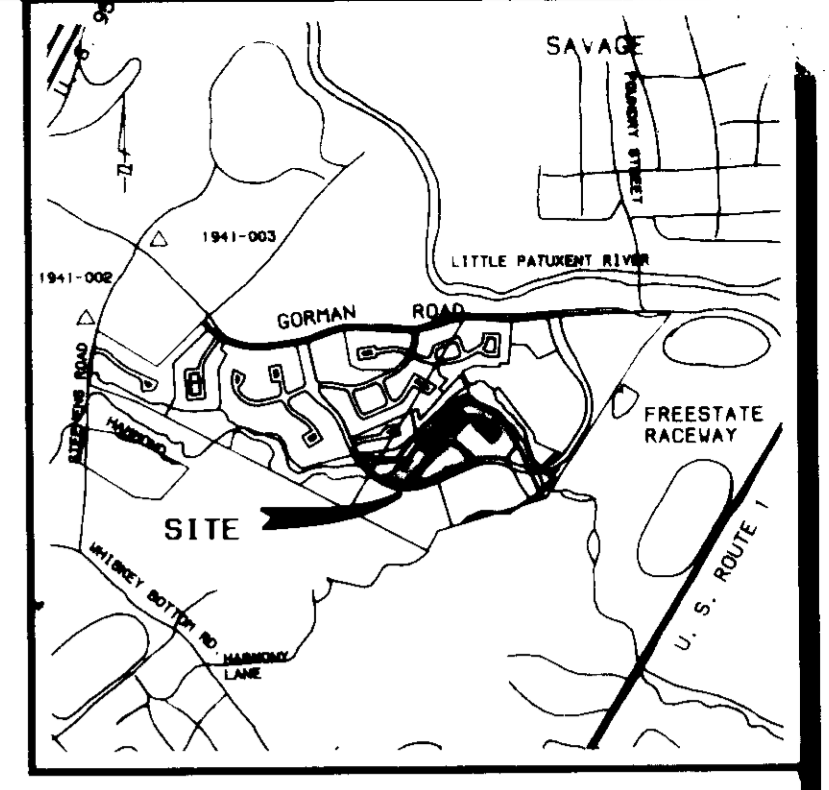
PROJECT:
BOWLING BROOK FARMS
LOTS I-1 THRU I-24 & I-81 THRU I-117
A RESUBDIVISION OF LOT 220, BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
L. 1394 F. 632

EROSION & SEDIMENT CONTROL PLAN

PHR&A
Potton Morris Rust & Associates, P.C.
Engineers, Surveyors, Planners, Landscape Architects
7409 Glendora Place
Rockville, Maryland 20855
301-762-2220
Baltimore Metro: 792-7244

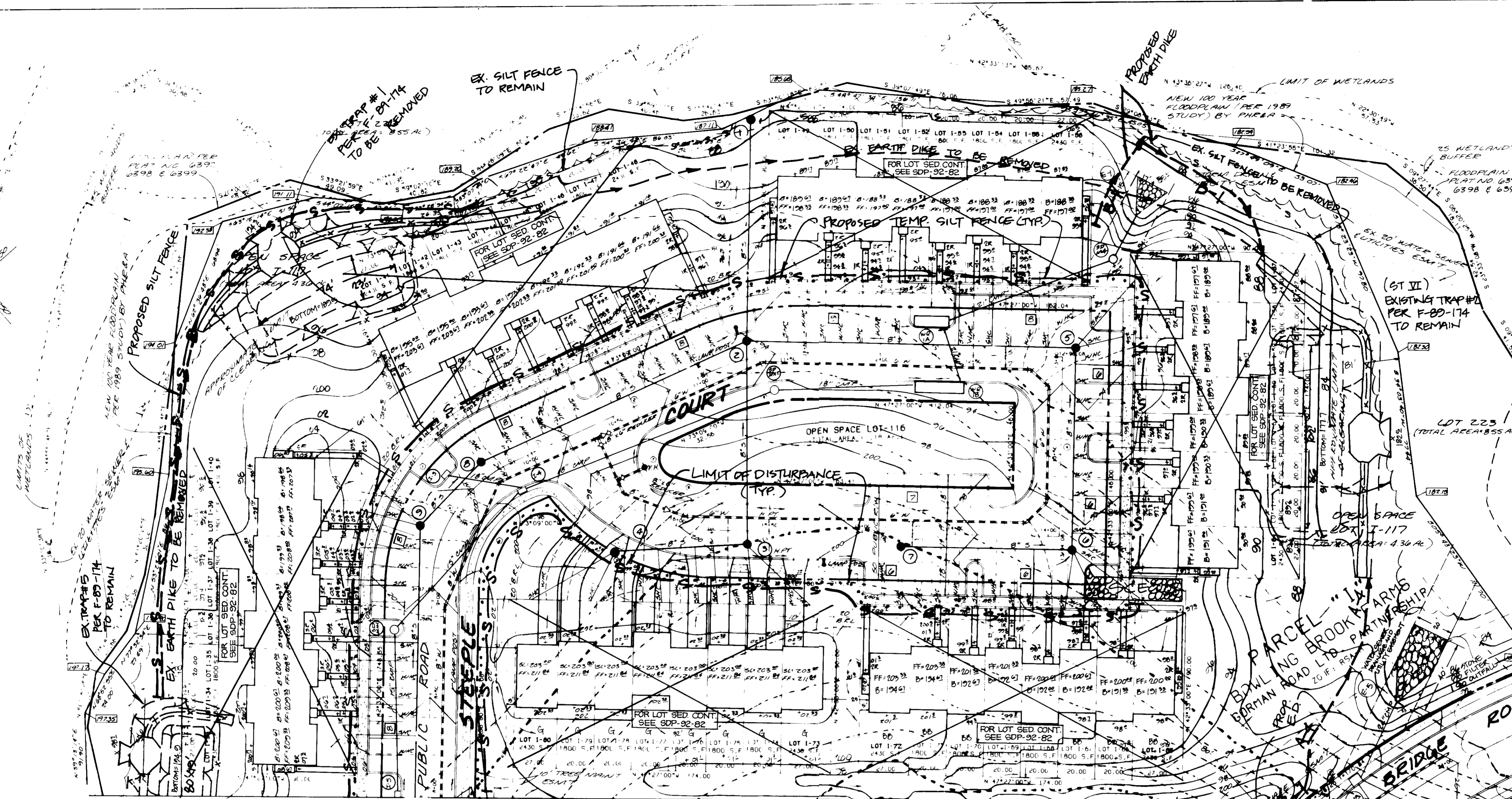
SURVEY	PHR&A	DATE	10/22/90
DESIGN	M. J. K.	DRAWN	CADD
CHKD.	R. S. H.	SCALE	1" = 30'
SHEET	7 OF 9	FILE NO.	2184-1-11

SDP 91 51



VICINITY MAP
SCALE: 1" = 2000'

- NOTE:**
1. ALL UNITS OTHER THAN GARAGE UNITS ARE WALKOUT UNITS, EXCEPT FOR UNITS 1-3 THROUGH 1-72.
 2. THE WETLAND/STREAM BUFFER INDICATED ON THIS PLAN DOES NOT PREVENT THE INITIAL CONSTRUCTION OF A RESIDENTIAL UNIT ON ANY LOT; IT DOES PROHIBIT SUBSEQUENT CLEARING, GRADING OR CONSTRUCTION IN THE BUFFER AREA AND THE MAINTENANCE OF RESIDUES, LANDSCAPING AND UTILITIES IS PERMITTED.
 3. BB = BURIED BASEMENT UNITS
G = GARAGE UNITS
ALL OTHERS ARE WALKOUT UNITS



STATE OF MARYLAND
KEVIN JOHNSON
NO. 16148
REGISTERED PROFESSIONAL ENGINEER
FOR REVISIONS
BY BDET.
DATED: 6/15/92

NOTE:
THIS PLAN FOR EROSION AND SEDIMENT CONTROL PURPOSES ONLY.
REFER TO SITE DEVELOPMENT PLAN FOR ALL OTHER INFORMATION.
ALL CONCENTRATED FLOW AREA MUST RECEIVE SOIL STABILIZATION MATTING PER DETAIL ON SHEET 9.

APPROVED: *Joyce M. Boyd* 10/11/91
APPROVED: *James B. Kottler* 11/4/91
Shirley J. Kottler 11/1/91
APPROVED: *James J. Lee* 10/2/91
James J. Lee 10-2-91

HOWARD COUNTY APPROVAL

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS.

James J. Lee 10/2/91
S.S. Soil Conservation Service Date

DEVELOPER'S/BUILDER'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 inspections by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

[Signature] 9/11/91
Signature of Developer/Builder Date

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

APPROVED *[Signature]* 10/2/91
Howard S.C.D. Date

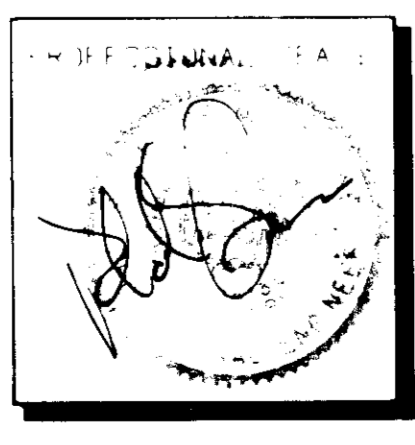
PLAN NUMBER SDP-91-51

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 conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature] 9/11/91
Signature of Engineer Date

1. SUBMITTED TO HOWARD COUNTY FOR REVIEW 10/22/90
2. REVISED PAD ELEVATION AND REDUCED KNOLLSIGHT & SLOPE 10/31/90
3. REVISED PER-HSOD COMMENTS 3/6/91
4. SUBMITTED PRINTS (INTERIM) TO CLIENT FOR REVIEW 9/11/91
5. SUBMITTED TO HO CO FOR SIGNATURE 9/11/91



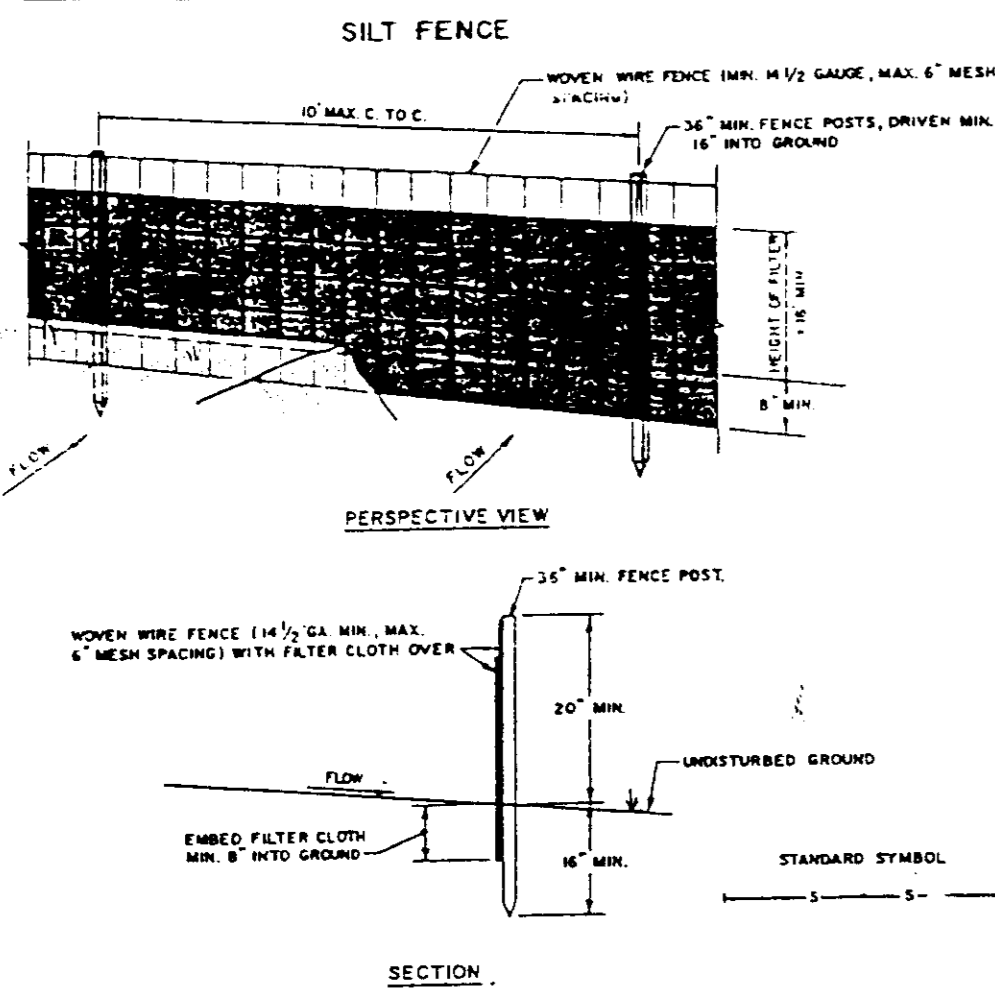
BOWLING BROOK FARMS
LOTS I-1 THRU I-24 & I-81 THRU I-117
A RESUBDIVISION OF LOT 220, BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
L. 1394 F. 632

EROSION & SEDIMENT CONTROL PLAN

PHR&A
Fullton Horne Hunt & Associates, P.C.
Engineers, Surveyors, Planners, Landscape Architects
7609 Stonehenge Place
Rockville, Maryland 20855
301-762-0200
Baltimore Metro: 736-7444

Offices:
Fairfax, Va.
Bridgeville, Va.
Leesburg, Va.
Rockville, Md.
Virginia Beach, Va.
Chantilly, Va.
Winchester, Va.

SURVEY	PHR&A	DATE	10/22/90
DESIGN	M. J. K.	DRAWN	CADD
CHKD.	R. S. H.	SCALE	1" = 30'
SHEET	8 OF 9	FILE NO.	2184-1-11



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24\"/>

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	SILT FENCE	STANDARD DRAWING SF-1
---	------------	--------------------------

SEDIMENT CONTROL NOTES

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (92-2437)
- 2) 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.
- 3) Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1; b) 14 days as to all other disturbed or graded areas on the project site.
- 4) 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.
- 5) 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 which such alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 6) 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.
- 7) Site Analysis:
 - Total Area of Site: 27.0 Acres
 - Area to be seeded or paved: 1.80 Acres
 - Area to be vegetatively stabilized: 6.20 Acres
 - Total Cut: 10,000 Cu. Yds
 - Total Fill: 10,000 Cu. Yds
 - Office waste/borrow area location: Parcel C, SDP-91-50
- 8) Any sediment control practice which is disturbed by grading activity. Placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 10) 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.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- 1) Preferred -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow 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).
- 2) Acceptable -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 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 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 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 (8 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

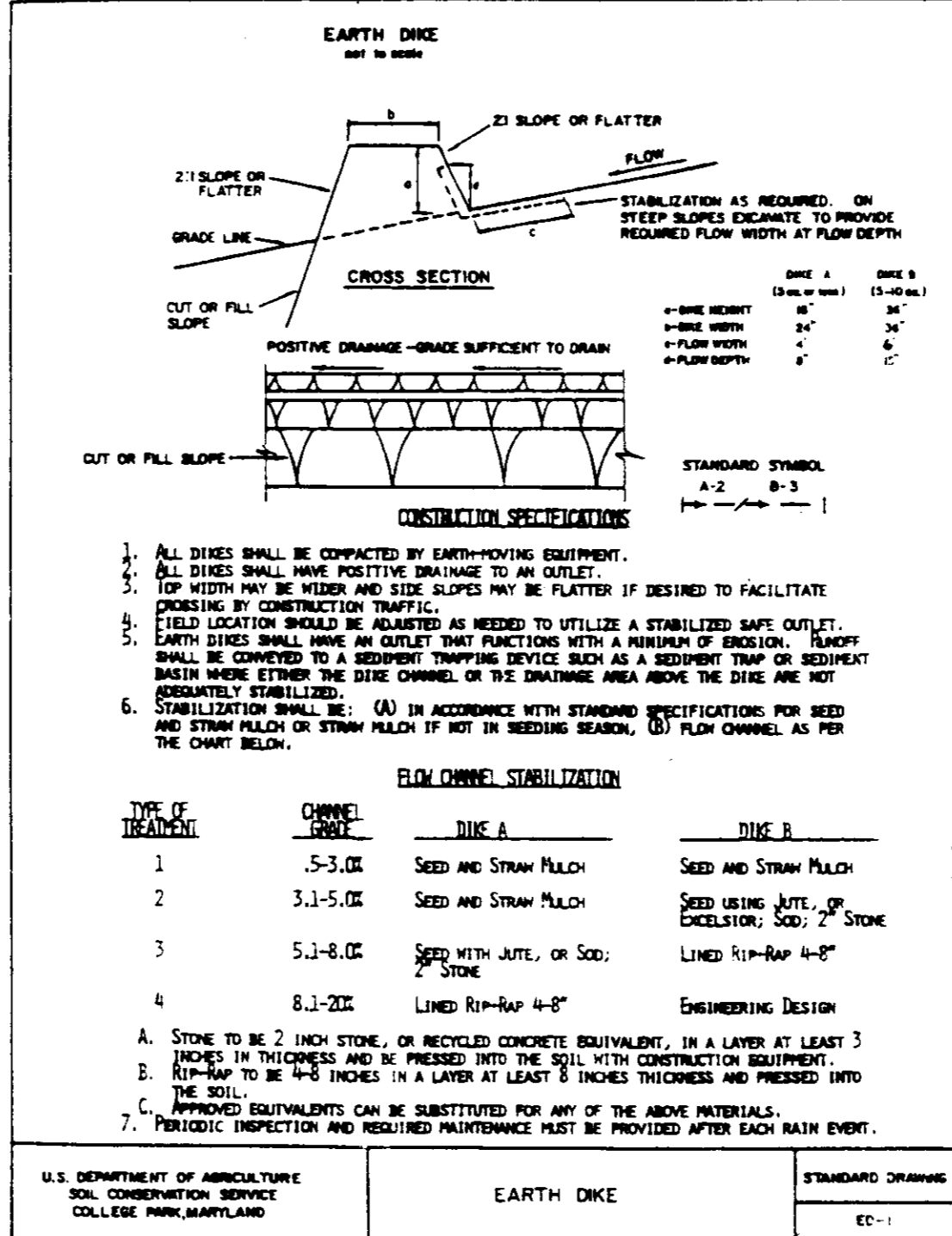
Seeded Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

Soil Amendments: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For periods March 1 thru April 30 and from August 1 thru November 15, seed with 20 bushels per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 15, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

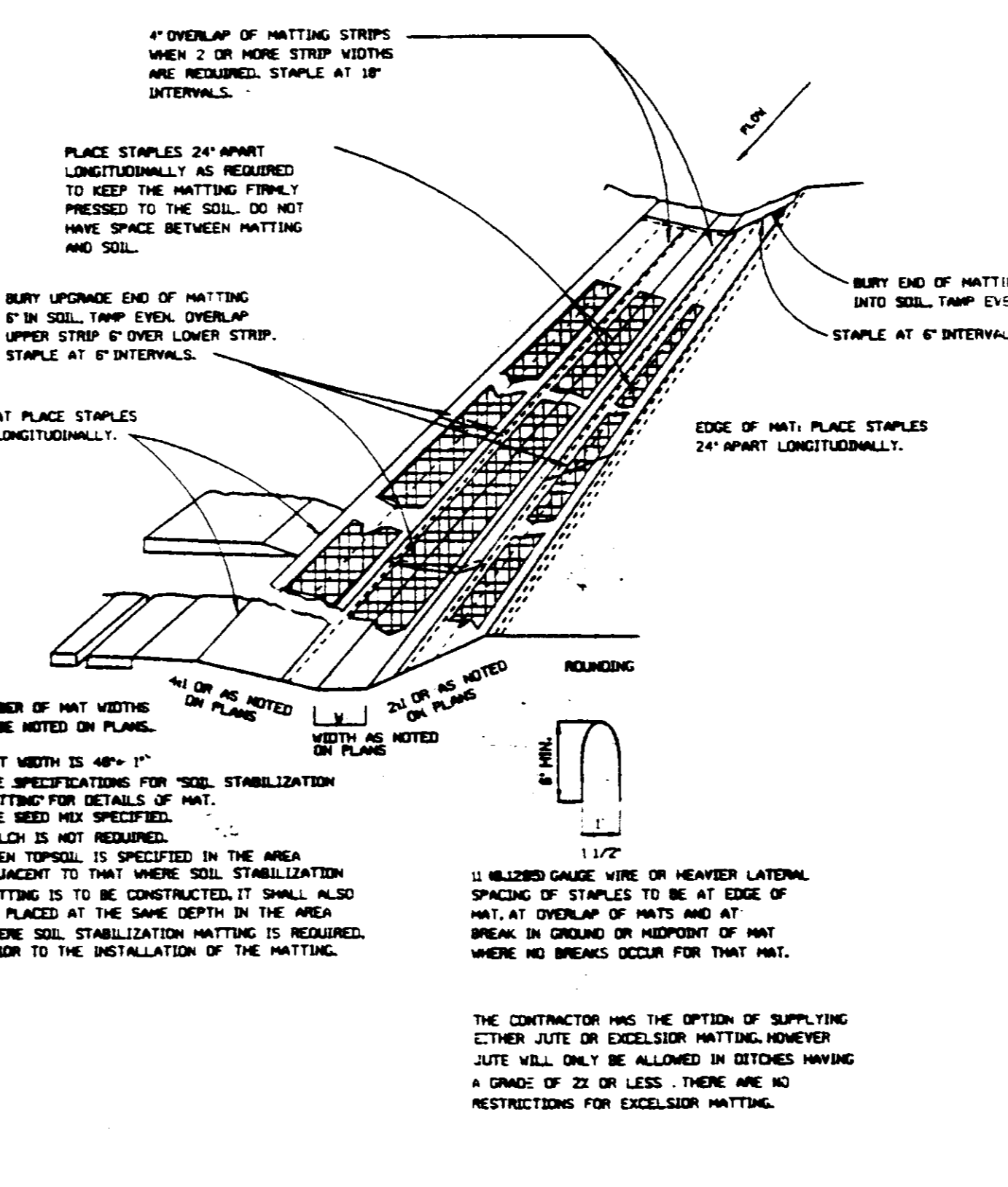
Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for site and methods not covered.



SEQUENCE OF CONSTRUCTION

1. Sediment control measures installed under F-89-174 are to be refurbished and remain through this Site Development Plan unless noted otherwise.
2. Obtain revised grading permit.
3. Install stabilized construction entrances and proposed silt fences as shown on the plan.
4. Construct units - delay construction of units within 20-feet of traps (units 14 thru 18, 31 thru 34, 41, 42, 59 thru 63).
5. Silt fence in front of units must be installed as required by the Howard County inspector.
6. As their contributing drainage areas are brought to final grade and permanently stabilized, remove sediment control measures at the discretion of the sediment control inspector. Bring areas to final grade and apply permanent stabilization.



SOIL STABILIZATION MATTING PLACEMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.

James M. Boyd 10/11/91
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

James R. Butler 11/8/91
PLANNING DIRECTOR DATE

Anna Chalmers 9/1/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, PUBLIC STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James R. Butler 10/9/91
DIRECTOR DATE

James R. Butler 10/8/91
CHIEF, BUREAU OF ENGINEERING DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

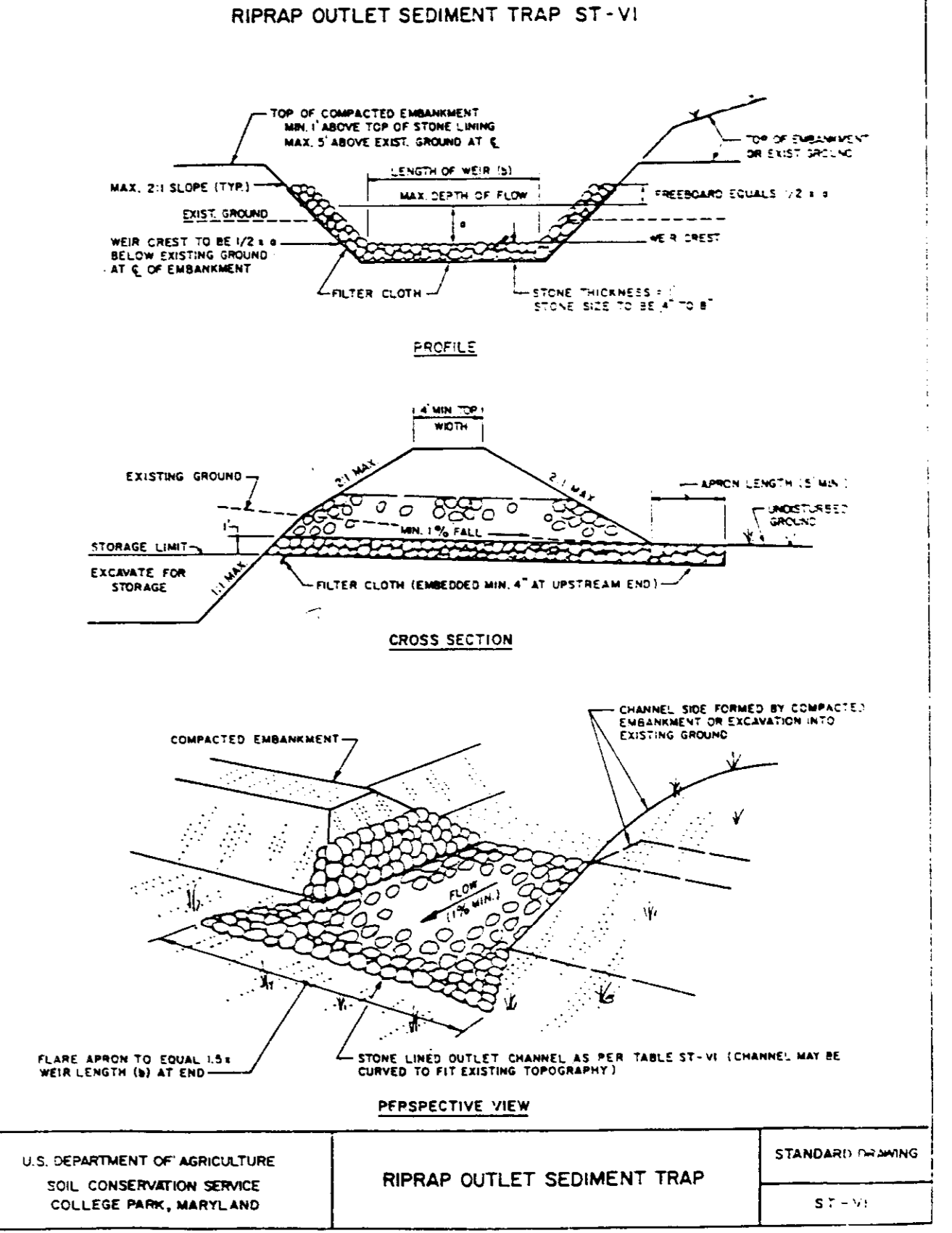
I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic onsite inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

James R. Butler 9/1/91
Signature of Developer/Builder Date

ENGINEER'S CERTIFICATE

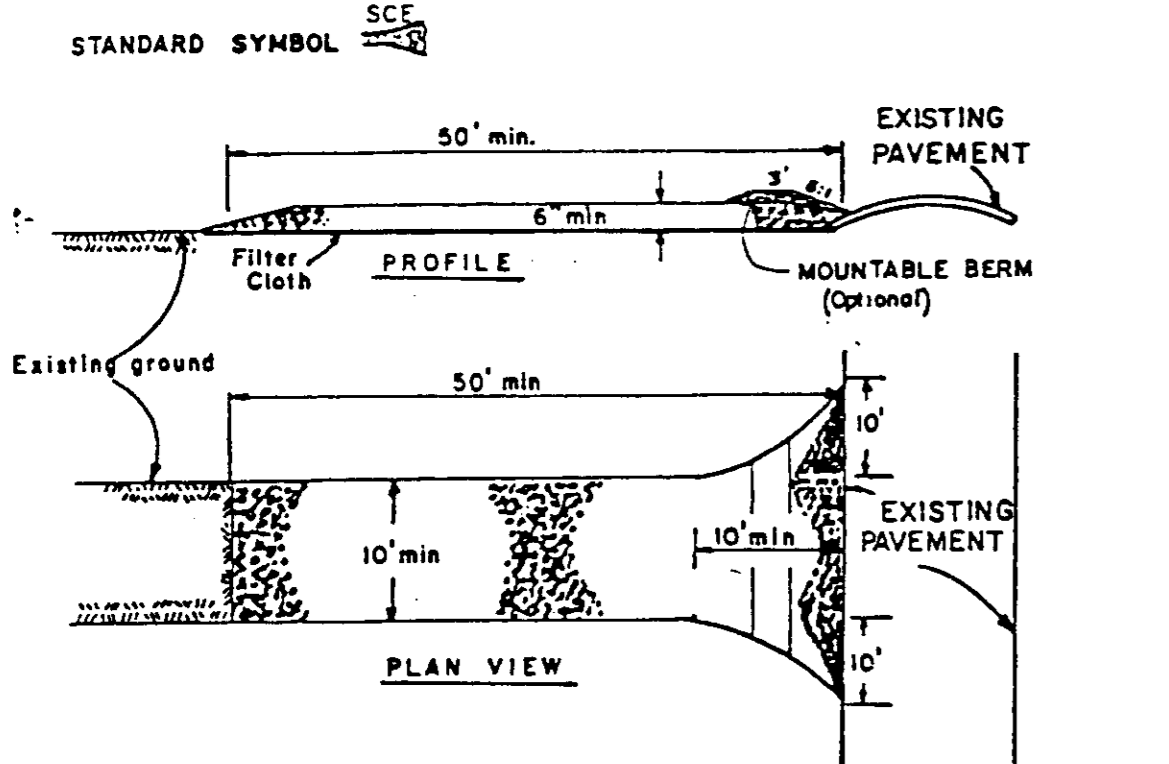
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

James R. Butler 9/1/91
Signature of Engineer Date



RIPRAP OUTLET SEDIMENT TRAP

STABILIZED CONSTRUCTION ENTRANCE not to scale



- CONSTRUCTION SPECIFICATIONS**
1. Stone Size - Use 2\"/>

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE College Park, MD.	STABILIZED CONSTRUCTION ENTRANCE	Standard Drawing SCE-1
--	----------------------------------	---------------------------

SEDIMENT TRAP #	1	2	3	5
TYPE OF TRAP - 91D & SPEC#	ST-VI	ST-VI	ST-VI	ST-VI
DRAINAGE AREA (ACRES)	3.7	7.2	3.6	2.0
STORAGE REQUIRED (CFT)	6,640	12,960	6,480	4,500
STORAGE PROVIDED (CFT)	6,800	13,964	6,870	4,500
BASE DIMENSIONS (FEET)	25' x 74' @ 100.5'	31' x 102' @ 117'	18' x 24' @ 20.4'	20' x 27' @ 23.2'
WORK LENGTH @ ELEV.	10' @ 194.3	10' @ 180.5	10' @ 204.0	6' @ 190.7
STORAGE DEPTH	4.0'	4.1'	3.7'	3.0'
EMBANKMENT @ TOP ELEV.	191.8	186.3	208.1	202.8
MAX. WIDTH OF FLOW	15'	15'	15'	15'
SIDE SLOPE	1:1	1:1	1:1	1:1

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS.

James R. Butler 10/3/91
Soil Conservation Service Date

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

APPROVED: *Kevin Johnson* 10/2/91
REGISTERED PROFESSIONAL ENGINEER DATE

FOR REVISIONS BY B.D.E.T. DATED: 6/15/92

PLAN NUMBER SDP-91-51



No.	REVISIONS	DATE	CHKD.
1	SUBMITTED TO HOWARD COUNTY FOR REVIEW	10/11/91	
2	REVISED PER HCD COMMENTS / SUBMITTED INTERIM PRINTS TO CLIENT FOR REVIEW	9/6/91	
3	SUBMITTED FOR SIGNATURE TO H.C.	2/10/91	

PROFESSIONAL SEAL: *James R. Butler*

PROJECT: BOWLING BROOK FARMS
LOTS I-1 THRU I-24 & I-81 THRU I-117
A RESUBDIVISION OF LOT 220, BOWLING BROOK FARMS
TAX MAP 47 PARCEL 141
SIXTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
L. 1394 F. 632

TITLE: EROSION & SEDIMENT CONTROL DETAILS

PHR&A
Patton Harris Rust & Associates, PC
Engineers, Surveyors, Planners, Landscape Architects
7048 Woodloch Place
Rockville, Maryland 20855
811 762 2200 Baltimore, Md. 792 7244

Offices:
Fairfax, Va.
Bridgewater, Va.
Leesburg, Va.
Rockville, Md.
Virginia Beach, Va.
Chantilly, Va.
Winchester, Va.

SURVEY	PHR&A	DATE	10/22/90
DESIGN	M.J.K.	DRAWN	R.L.P.
CHKD.	R.S.H.	SCALE	AS SHOWN
SHEET	9 OF 9	FILE NO.	2184-1-11