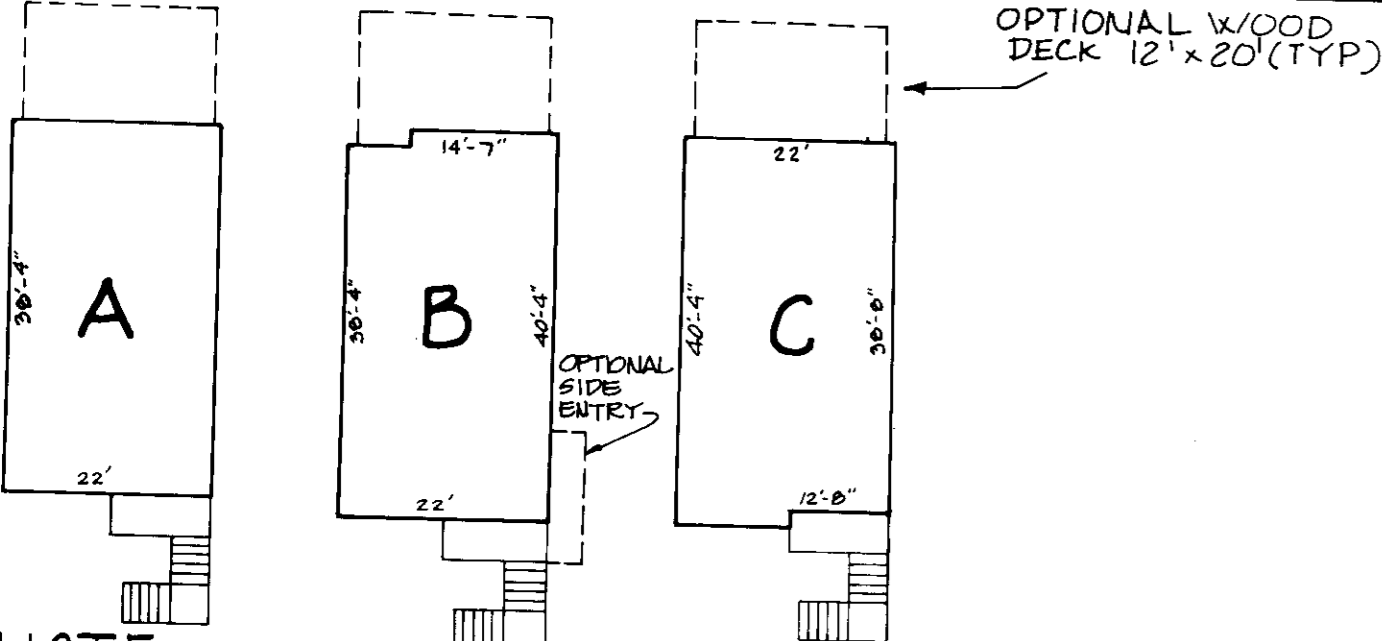
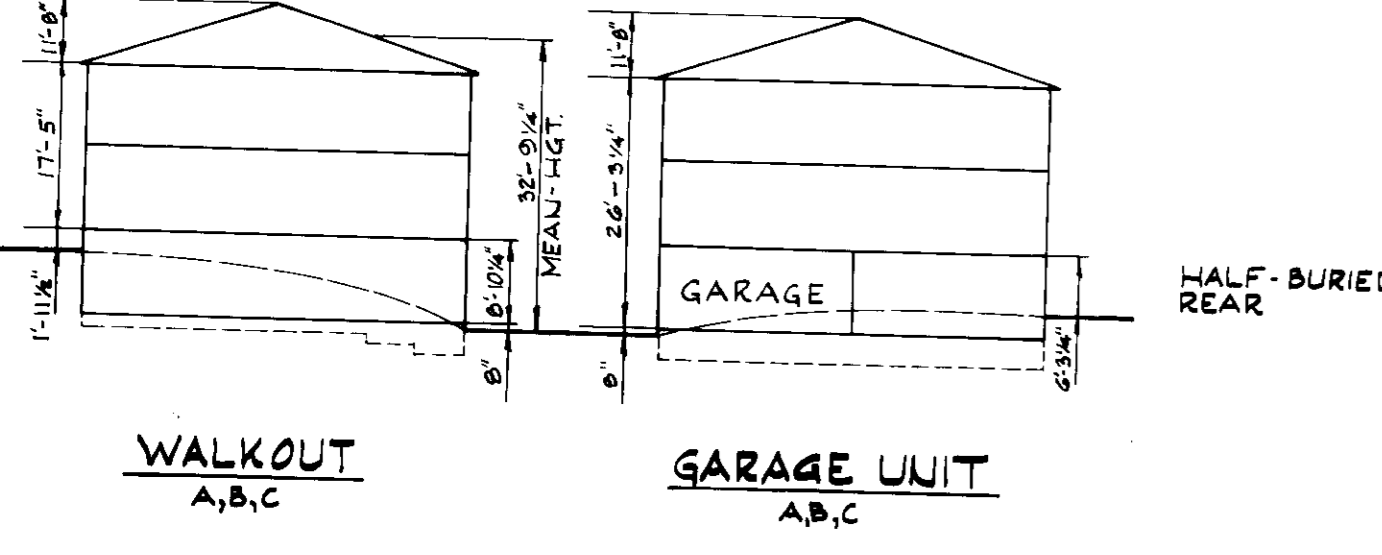


# BOWLING BROOK FARMS PARCEL L LOTS L-1 THRU L-55

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*James P. ...* 5-4-89  
COUNTY HEALTH OFFICER DATE  
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*...* 5-18-89  
DIRECTOR DATE  
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE  
STORM DRAINAGE SYSTEM AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*...* 5/1/89  
DIRECTOR DATE  
APPROVED: *...* 4-28-89  
CHIEF BUREAU OF ENGINEERING DATE



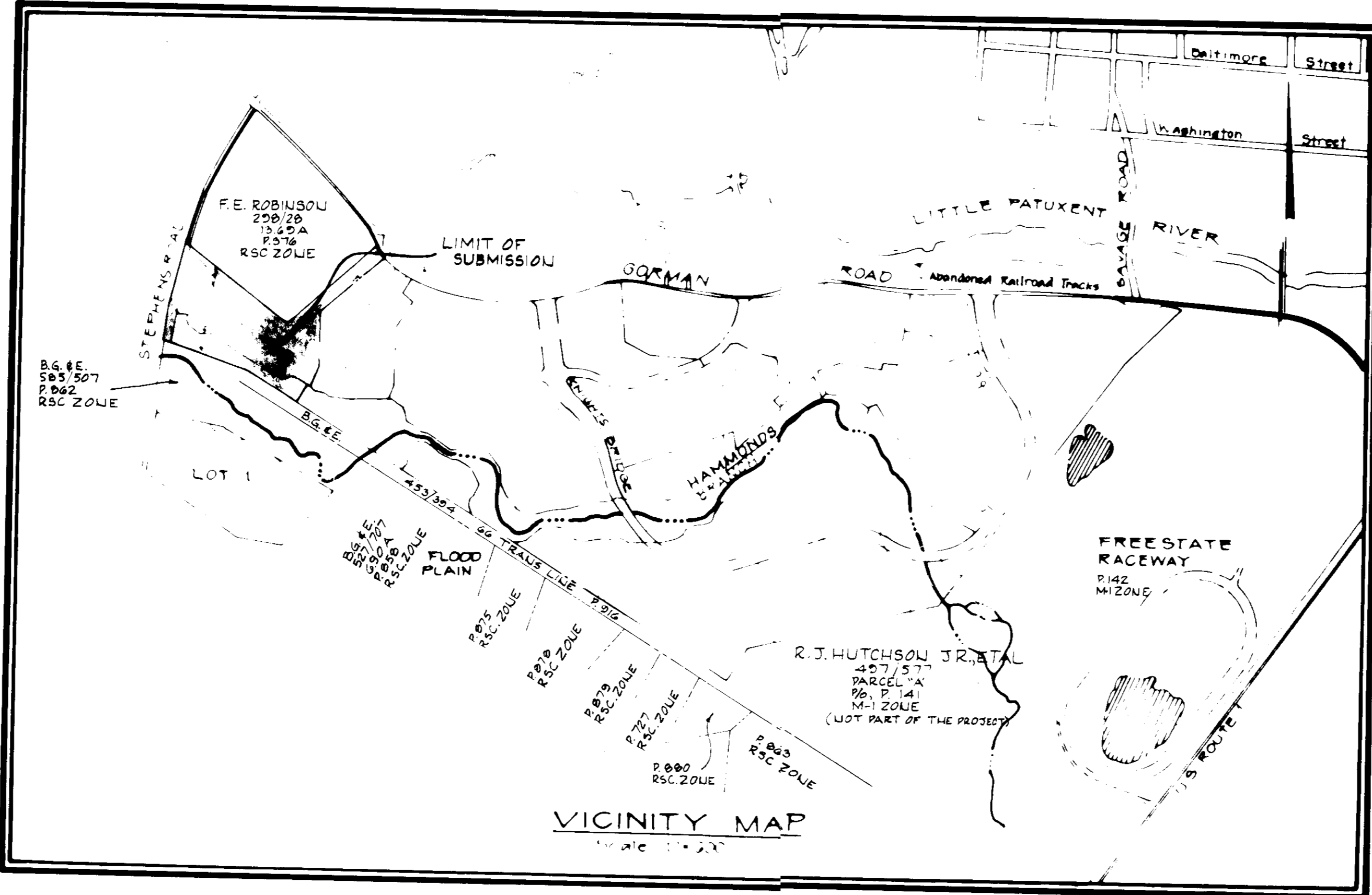
NOTE: ALL ROOF OVERHAUL: 8"  
ALL EUD UNITS 22'-4"  
(A) (22' x 39.67') = 872.74 SF.  
(B) (7.41' x 39.67') + (14.58' x 41.67') = 901.50 SF.  
(C) (12.67' x 40.00') + (9.93' x 41.67') = 895.58 SF.



### LEGEND

APPROX. LIMIT OF CLEARING STORM DRAIN PROPOSED & PROPOSED R/W LIMITS OF SUBMISSION EASEMENT HC FLARED END SECTION HCR EXISTING CONTOUR PROPOSED CONTOUR SPOT ELEVATION DIRECTION OF FLOW OF DRAINAGE PROPERTY LINE WALK OUT BASEMENT

TRAFFIC CONTROL SIGNS  
R1-1 STOP SIGN  
R2-1 SPEED LIMIT SIGN  
R4-7 KEEP RIGHT SIGN  
D-3 STREET LIGHT SIGN  
F.L. FIRE LANE & TOWAWAY ZONE



## SITE DEVELOPMENT PLANS HOWARD COUNTY, MARYLAND

- ### GENERAL NOTES
- THE APPROXIMATE LOCATION OF ALL UTILITIES IS SHOWN BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORDS. THIS 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 (TROUBLE SHOOTING)
    - "MISS UTILITY" - 800-257-7777
    - CHESAPEAKE & POTOMAC (C&P) TELEPHONE COMPANY - 725-9976
    - BUREAU OF UTILITIES/HOWARD COUNTY - 992-2366
  - ALL DETAILS NOT SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARD DETAILS.
  - 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 EDITION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
  - TREES SHALL BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT POSSIBLE. TREES SIX (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 1986.
  - PARKING AREAS SHALL MEET ALL ZONING REGULATIONS AND ALL DEPARTMENT OF PUBLIC WORKS PAVING SPECIFICATIONS.
  - NUMBER OF PARKING SPACES PER BAY ARE INSCRIBED IN A CIRCLE; EXAMPLE: 9
  - ALL STREET SIGNS SHALL CONFORM TO REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES." THE FOLLOWING SIGNS ARE SHOWN ON THESE PLANS:
    - D3 - STREET IDENTIFICATION SIGN
    - R2-1 - SPEED LIMIT SIGN
    - R1-1 - STOP SIGN
    - R4-7 - KEEP RIGHT SIGN
  - THIS PROPERTY IS BOUNDED ON THE NORTH BY ROBINSON'S PROMISE, ZONED RS-C, ON THE SOUTH BY BAYWOOD BRANCH, ON THE EAST BY SECTION 1, AREA 1, LOT 71 (PARCEL K), ZONED RS-C, AND ON THE WEST BY STEPHENS ROAD.
  - THIS SUBMISSION IS ZONE RS-C.
  - GARAGES ARE TO BE USED FOR PARKING PURPOSES ONLY IN ACCORDANCE WITH SECTION 127-82.8. (18).
  - THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 792-2630.
  - SEE OP2 FILE NOS. VP-85-78, VP-85-78A-2, S-85-23, S-86-57, S-87-07, P-87-73, L.1394 E632, F-88-288, P-88-38.
  - RESIDENTS WILL PROVIDE MODIFIED REUSE COLLECTION.
  - FIRE LANES 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.
  - STORMWATER MANAGEMENT FOR QUANTITY HAS BEEN WAIVED UNDER F-88-288.

SEDIMENT CONTROL MEASURE FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS AND ROAD CONSTRUCTION PLAN F-88-288 AND SDP-89-115

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT  
SIGNATURE: *...* DATE: 3/16/89

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.  
APPROVED: *...* DATE: 3/16/89  
HOWARD SCD

- ### INDEX TO DRAWINGS
- TITLE SHEET
  - SITE DEVELOPMENT PLAN
  - DETAIL SHEET
  - LANDSCAPE PLAN
  - EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
  - EROSION AND SEDIMENT CONTROL PLAN

J. RMAN ROAD & MTEL PARTNERSHIP  
C/O JAMES E. KNOTT DEVELOPMENT CORPORATION  
40 WEST ROAD, SUITE 203  
TOWSON, MARYLAND 21284  
(800) 321-6436

### SITE ANALYSIS

1. Area	10.17
2. Proposed Use	Townhouses
3. Dwelling Units Proposed	52
4. Area Tabulation:	
Lots	2.64 Acres
Public Roads	1.16 Acres
Open Space Provided	7.64 Acres (66%)
5. Parking Required:	11.42 Acres (Gross Area of Parcel L) ± 2 = 48
24 Units with Garages	
Parking Area	104
6. Parking Provided:	x 2 = 56
Units with Garages	24 Spaces in Driveway
Common Parking Area	24 Spaces in Garage
TOTAL PROVIDED:	64 Spaces
TOTAL REQUIRED:	112
7. Building Coverage	1.05 Acres (10%)

### DENSITY TABULATION

1. Gross Area	11.53 Acres (LOT 1)
2. Flood Plain/Slopes	0.31 Acres
3. Net Area	11.22 Acres
4. Number of Dwelling Units Allowed (based on net area)	44.88
5. Flood Plain Lot Adjustment	4.49
6. Lot Allowance	4.49
7. Total Number of Dwelling Units Allowed	49.37
8. Total Number of Dwelling Units Proposed	52
9. Density Per Acre	4.51*

\*Density per acre will not violate that allowed by zoning regulation when recorded based upon unused density from previously recorded Sec. 1, "P5r" B Par. E, Library Site, and Par. G.

SUBDIVISION NAME	SEC. AREA	LOT/PARCEL #
BOWLING BROOK FARMS	1/1	LOTS L1-L52
PLAT # OR L/F	BLOCK #	ZONE
8285	15	RSC 47
TAX MAP	ELEC. DIST.	CENSUS TR.
6	G	6063
WATER CODE	SEWER CODE	
C03	7270000	

OWNER/DEVELOPER  
J. RMAN ROAD LIMITED PARTNERSHIP  
C/O JAMES E. KNOTT DEVELOPMENT CORP.  
40 WEST ROAD, SUITE 203  
TOWSON, MARYLAND 21284

BOWLING BROOK FARMS  
PARCEL L  
LOTS L-1 THRU L-55  
A RESUBDIVISION OF LOT 71, BOWLING BROOK FARMS  
TAX MAP 47 PARCEL 141  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE SHEET

ISSUED FOR REVIEW  
2 Revised per Ho County comments  
3 ADD. OPTION SIDE ENTRY

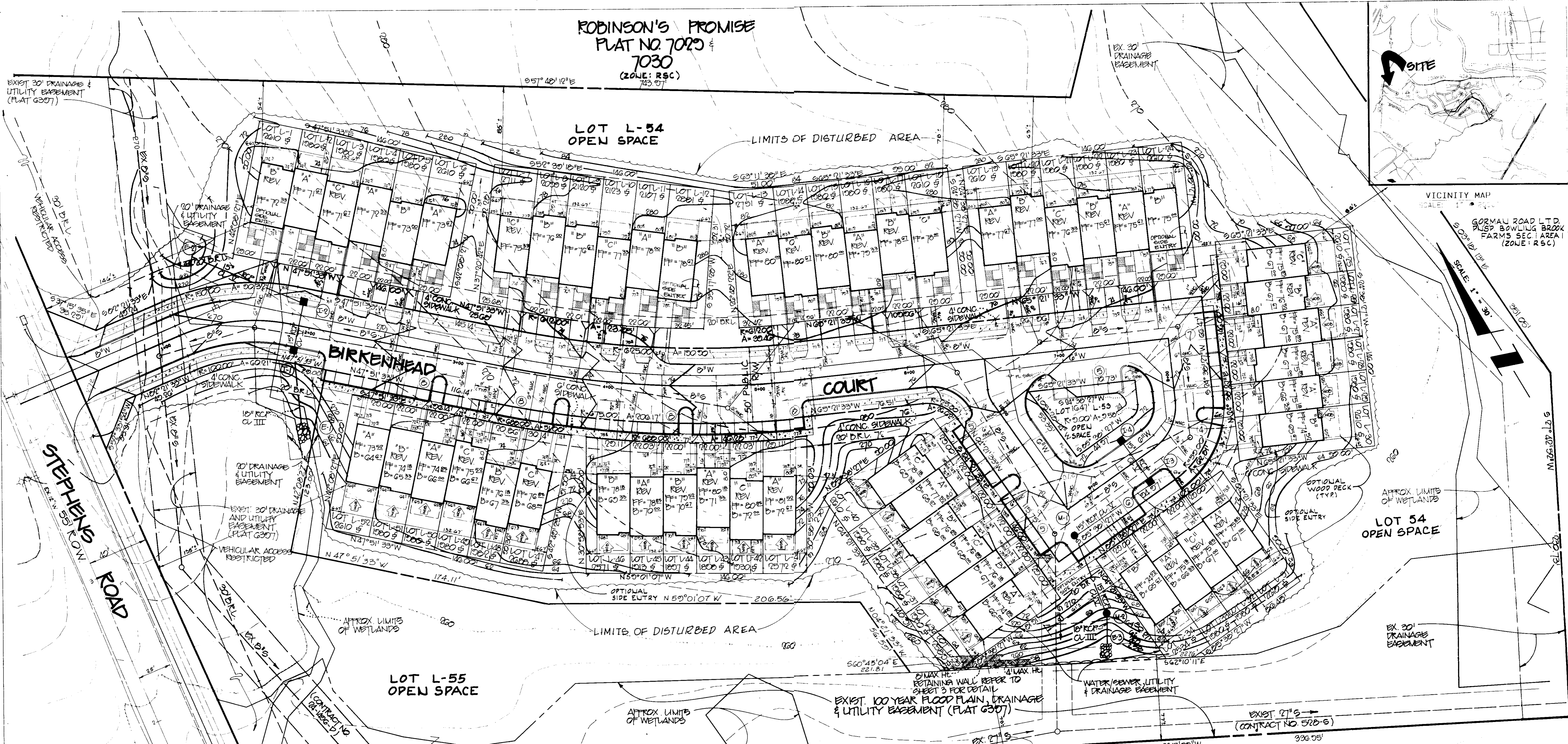
12-0-89  
2-3-89  
10-17-89

KOR.  
MFR.

12-0-89  
AS NOTED

SDP-89-115

ROBINSON'S PROMISE  
 PLAT NO. 7029 &  
 7030  
 (ZONE: RSC)  
 713.97



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

*[Signature]* 5-4-89  
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*[Signature]* 5-18-89  
 PLANNING DIRECTOR DATE

*[Signature]* 5-22-89  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

*[Signature]* 5/1/89  
 DIRECTOR DATE

*[Signature]* 4-28-89  
 CHIEF, BUREAU OF ENGINEERING DATE

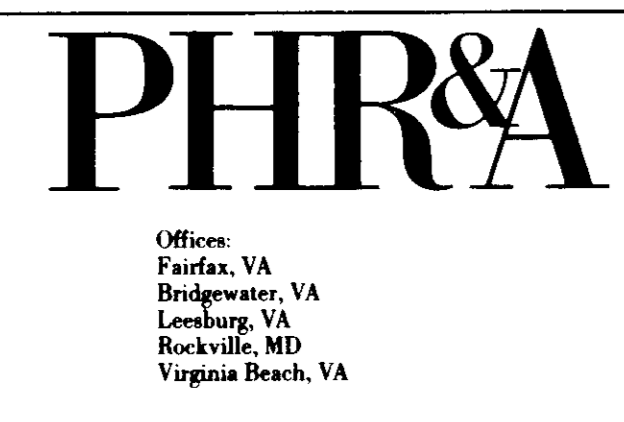
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

1-18-89  
 A.K.S.

HOWARD COUNTY APPROVAL

LOT NO.	STREET ADDRESS	LOT NO.	STREET ADDRESS	LOT NO.	STREET ADDRESS
L-1	8705 BIRKENHEAD COURT	L-19	8747 BIRKENHEAD COURT	L-37	8744 BIRKENHEAD COURT
L-2	8707	L-20	8749	L-38	8742
L-3	8709	L-21	8751	L-39	8740
L-4	8711	L-22	8753	L-40	8738
L-5	8713	L-23	8755	L-41	8734
L-6	8715	L-24	8757	L-42	8732
L-7	8719	L-25	8772	L-43	8730
L-8	8721	L-26	8770	L-44	8728
L-9	8723	L-27	8768	L-45	8726
L-10	8725	L-28	8766	L-46	8724
L-11	8727	L-29	8764	L-47	8720
L-12	8729	L-30	8762	L-48	8718
L-13	8733	L-31	8758	L-49	8716
L-14	8735	L-32	8756	L-50	8714
L-15	8737	L-33	8754	L-51	8712
L-16	8739	L-34	8752	L-52	8710
L-17	8741	L-35	8748		
L-18	8743	L-36	8746		

B.G. & E.  
 L. 453 F. 304



CLIENT  
 OWNER/DEVELOPER

BOWLING BROOK FARMS  
 PARCEL L  
 LOTS L-1 THRU L-55  
 A RESUBDIVISION OF LOT 71, BOWLING BROOK FARMS  
 TAX MAP 47 PARCEL 141  
 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

JOB  
 TITLE

SITE DEVELOPMENT  
 PLAN

PROFESSIONAL SEAL

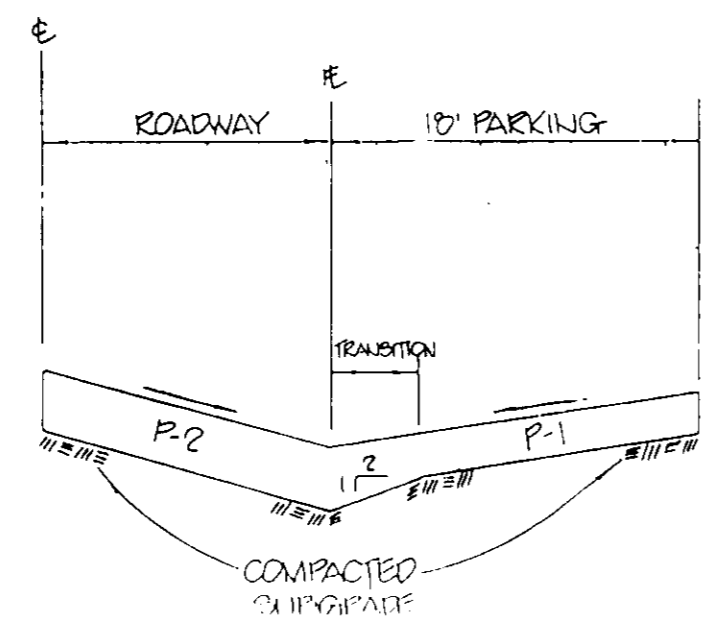
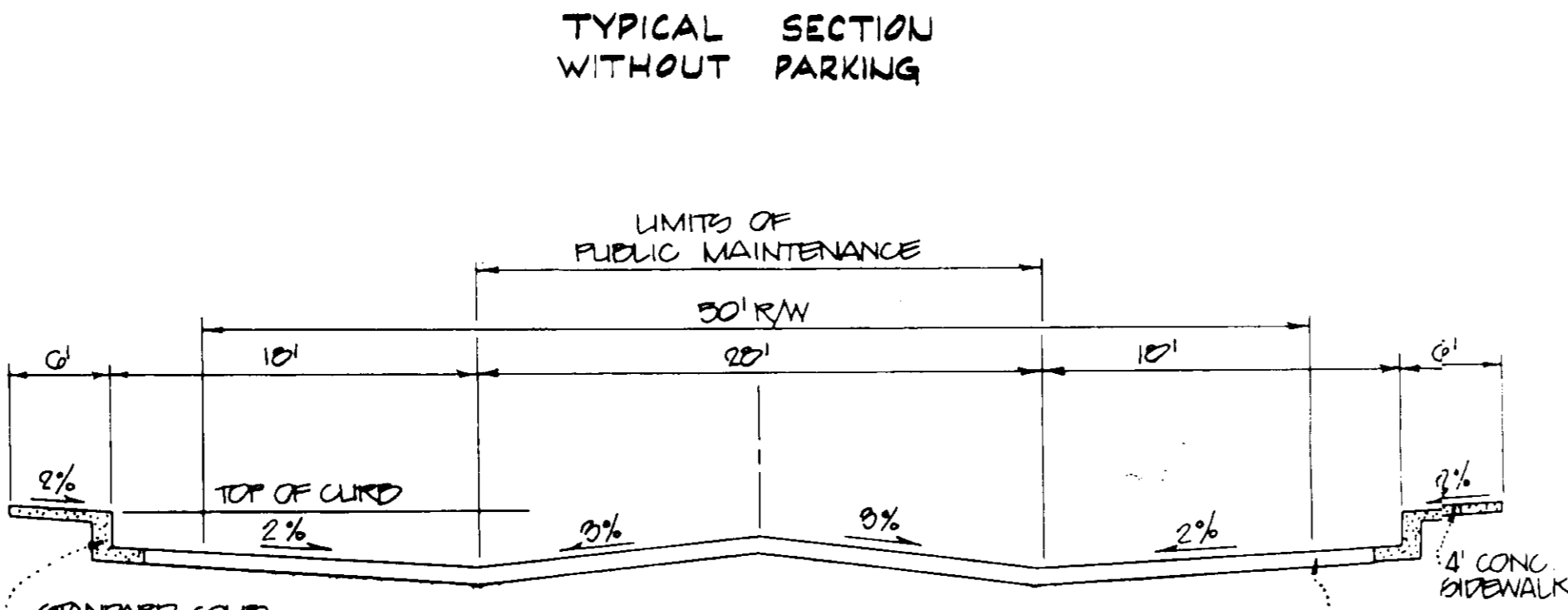
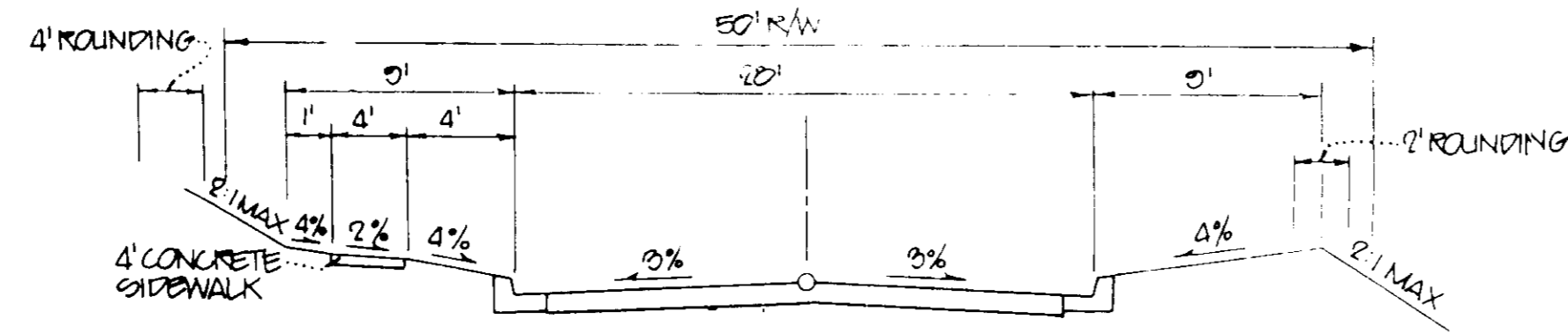
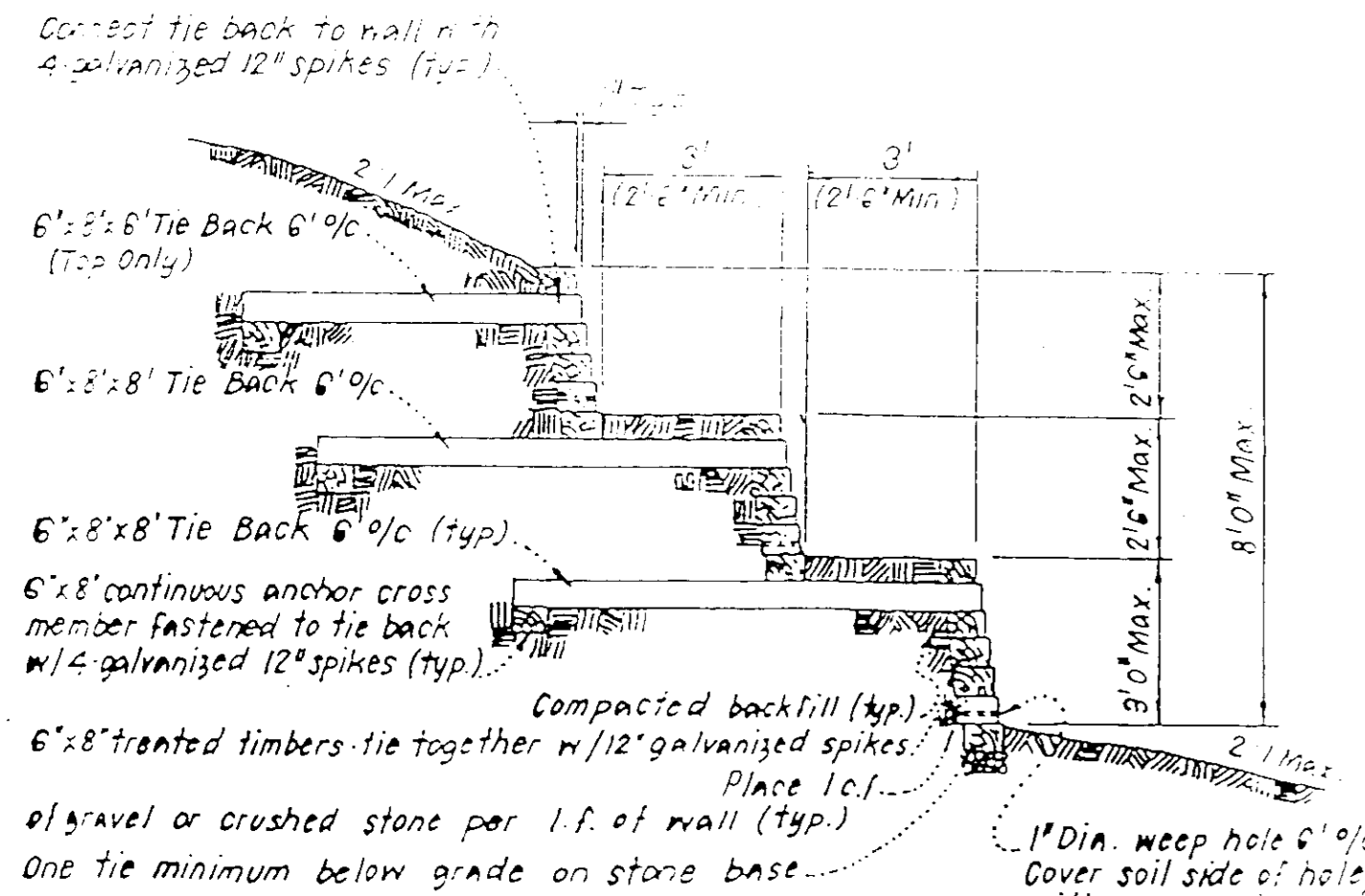
NO. 1 ISSUED FOR REVIEW  
 2 REVISED PER Ho. County COMMENTS & Architect  
 3 ADD. OPTION SIDE ENTRY

DATE 12-8-88  
 12-8-88  
 10-13-89

FILE NO. 204-1-0  
 DATE 12-8-88  
 SCALE 1"=30'  
 SHEET 2 OF 6

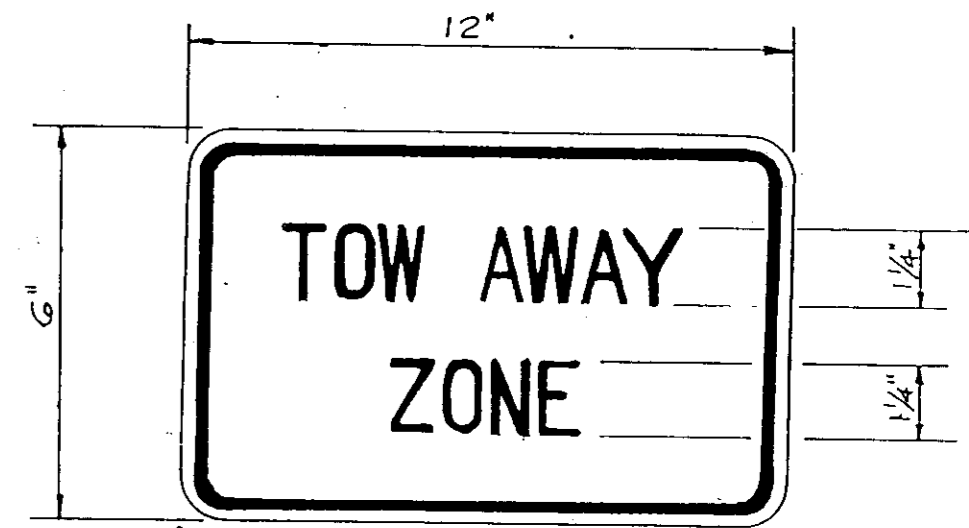
DESIGNED BY P.H.R. & A.  
 DRAWN BY K.O.R.  
 CHECKED BY J.D.W.

- NOTE:
- Timbers shall be either:
    - Cypress treated railroad ties
    - CCA treated landscaping timbers (40% of retention)
  - Hardware shall be hot dipped galvanized
  - Weepholes with gravel drain are minimum measures for groundwater. For any substantial amount of groundwater a drain system should be designed and utilized



- NOTES:
- IF THE P-1 PAVEMENT SECTION IS USED WITHIN THE PARKING AREA, IT SHALL BE USED THROUGHOUT THE ENTIRE PROJECT.
  - IF PAVEMENT SECTION (FULL DEPTH BITUMINOUS CONCRETE PAVEMENT OR BITUMINOUS CONCRETE PAVEMENT OVER GRANULAR BASE) SHALL BE USED THROUGHOUT THE ENTIRE PROJECT.

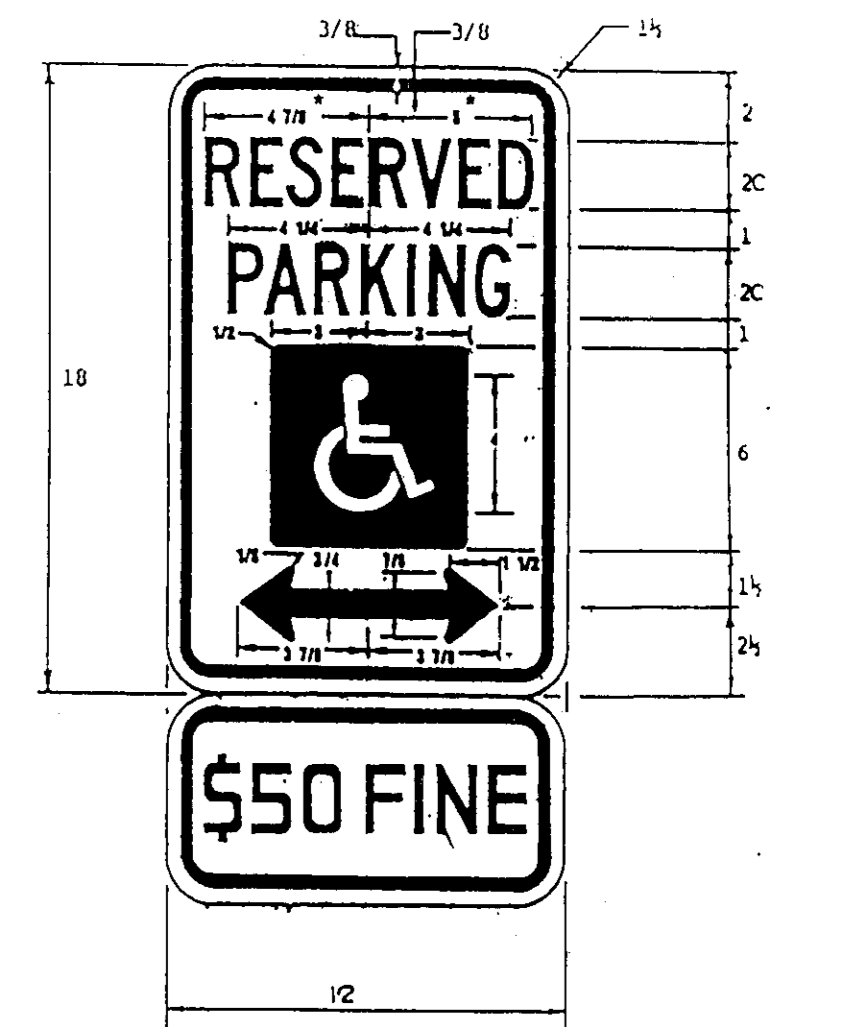
SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		FULL DEPTH BIT CONC ALTERNATE	GRANULAR BASE ALTERNATES
P-1	PARKING AREAS AND TRAVELWAYS APARTMENTS AND COMMERCIAL- INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	4" BIT CONC SURFACE 4" BIT CONC BASE	1" BIT CONC SURFACE 2" BIT CONC BASE PRIME 3" CRUSHER RUN BASE COURSE OR 4" DENSE GRADE STABILIZED AGGREGATE BASE COURSE
P-2	RESIDENTIAL ZONES LOCAL, C/O BE SAC STS ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS PARKING AREAS APARTMENTS AND COMMERCIAL- INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY	2" BIT CONC SURFACE 5" BIT CONC BASE	1/2" BIT CONC SURFACE 2 1/2" BIT CONC BASE PRIME 8" CRUSHER RUN BASE COURSE 12 COURSES OR 6" DENSE GRADE STABILIZED AGGREGATE BASE COURSE



- A. Specifications
- Fire Lane Signs-(Exhibit 5)
    - Size - 12" wide X 18" high  
Alternate when specified: 24" wide X 30" high
    - Thickness - .080"
    - Material - Aluminum
    - Color - Reflective red letters and border on a reflective white background
    - Lettering - NO PARKING (3")  
FIRE LANE (2")  
DIRECTIONAL ARROW (1 1/2")
  - Tow Away Zone Signs (Exhibit 6)
 

The authorized sign is designated R7-201 in the Manual on Uniform Traffic Control Devices

    - Size - 12" wide X 6" high
    - Material type and thickness to be same as Fire Lane sign
    - Color - Red letters and border on reflective white background
    - Lettering - 2 line text using 1 inch letters
- NOTE: The use of international symbol type signs is not authorized



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT

*Joseph P. ...* 5-4-89  
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*...* 5-18-89  
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE  
STORM DRAINAGE SYSTEM AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*...* 5/1/89  
DIRECTOR DATE

*...* 6-28-89  
CHIEF BUREAU OF ENGINEERING DATE

HOWARD COUNTY APPROVAL

**PHR&A**  
Office:  
Fairfax, VA  
Bridgewater, VA  
Leesburg, VA  
Rockville, MD  
Virginia Beach, VA

CLIENT  
OWNER/DEVELOPER  
GORMAN ROAD LIMITED PARTNERSHIP  
C/O JAMES P. KNOTT DEVELOPMENT CORP.  
110 WEST ROAD, SUITE 203  
TOWSON, MARYLAND 21204

PROJECT  
BOWLING BROOK FARMS  
PARCEL L  
LOTS L-1 THRU L-55  
A RESUBDIVISION OF LOT 71, BOWLING BROOK FARMS  
TAX MAP 47 PARCEL 141  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

DATE  
NO. 1  
REVISIONS  
ISSUED FOR REVIEW  
2-2-88  
2  
Revised per Ho County comments

PROFESSIONAL SEAL  
*[Signature]*

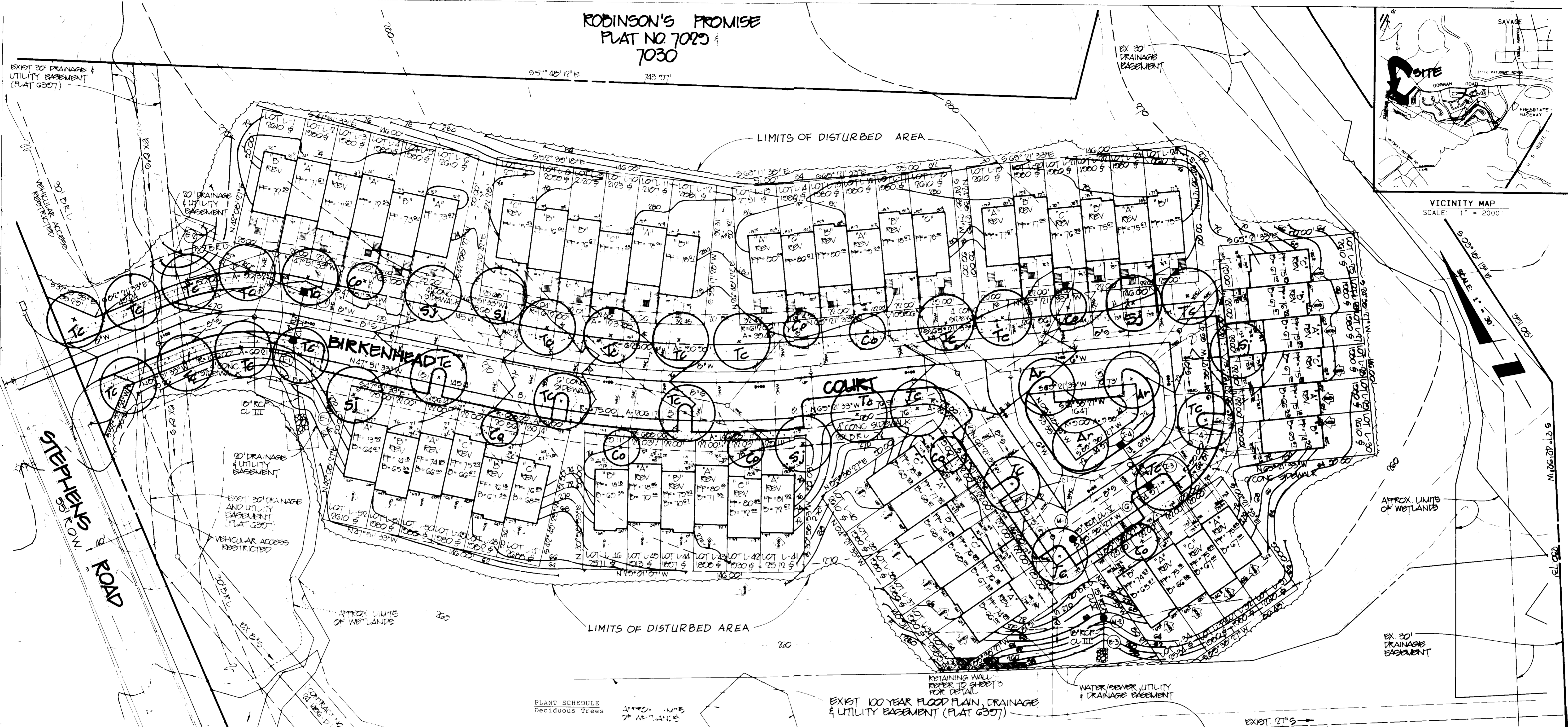
DESIGN  
K.O.R.  
DRAWN  
M.F.R.  
CHKD

DATE  
2-2-88  
2-3-89

SURVEY BY  
DESIGN  
DRAWN  
CHKD

FILE NO.  
2104-1-9  
DATE  
12-0-88  
SCALE  
SHEET  
3  
6

ROBINSON'S PROMISE  
PLAT NO. 7029 &  
7030



PLANT SCHEDULE

Key	Quantity	Botanical Name	Common Name	Size	Condition
Ar	3	Acer rubrum	Red Maple	13'-15'ht 2 1/2"cal	B&B
Tc	25	Tilia cordata "Greenpire"	Greenspire Linden	13'-15'ht 2 1/2"cal	B&B
Co	9	Crataegus oxyacantha "Superba"	Crimson Cloud Hawthorn	10'-12'ht 2 1/2"cal	B&B
Sj	6	Sophora japonica "Regent"	Regent Schlottree	11'-13'ht 2 1/2"cal	B&B

- NOTES:
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO PLANTING (SEE NOTE #3 SHEET 1)
  - ALL PLANT MATERIAL AND PLANTING SHALL BE IN ACCORDANCE WITH "AMERICAN STANDARD FOR NURSERY STOCK" BY THE A.A.N.
  - SUBSTITUTIONS MAY BE PERMITTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT (762-2220).

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

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
HOWARD COUNTY HEALTH DEPARTMENT

*[Signature]* 5-4-89  
COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*[Signature]* 5-18-89  
PLANNING DIRECTOR

*[Signature]* 5-2-89  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

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

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*[Signature]* 5/1/89  
DIRECTOR

*[Signature]* 4-28-89  
CHIEF, BUREAU OF ENGINEERING

1-18-89  
LKS

B.G. & E.  
L.453 F.304



Platt-Harris-Rod & Associates, Inc.  
Engineers, Surveyors, Planners, Landscape Architects  
7601 Standish Place  
Rockville, Maryland 20851  
301-762-2220

Office:  
Falls Church, VA  
Bridgewater, VA  
Lynchburg, VA  
Rockville, MD  
Virginia Beach, VA

BOWLING BROOK FARMS  
PARCEL L  
LOTS L-1 THRU L-55  
A RESUBDIVISION OF LOT 71, BOWLING BROOK FARMS  
TAX MAP 47 PARCEL 141  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

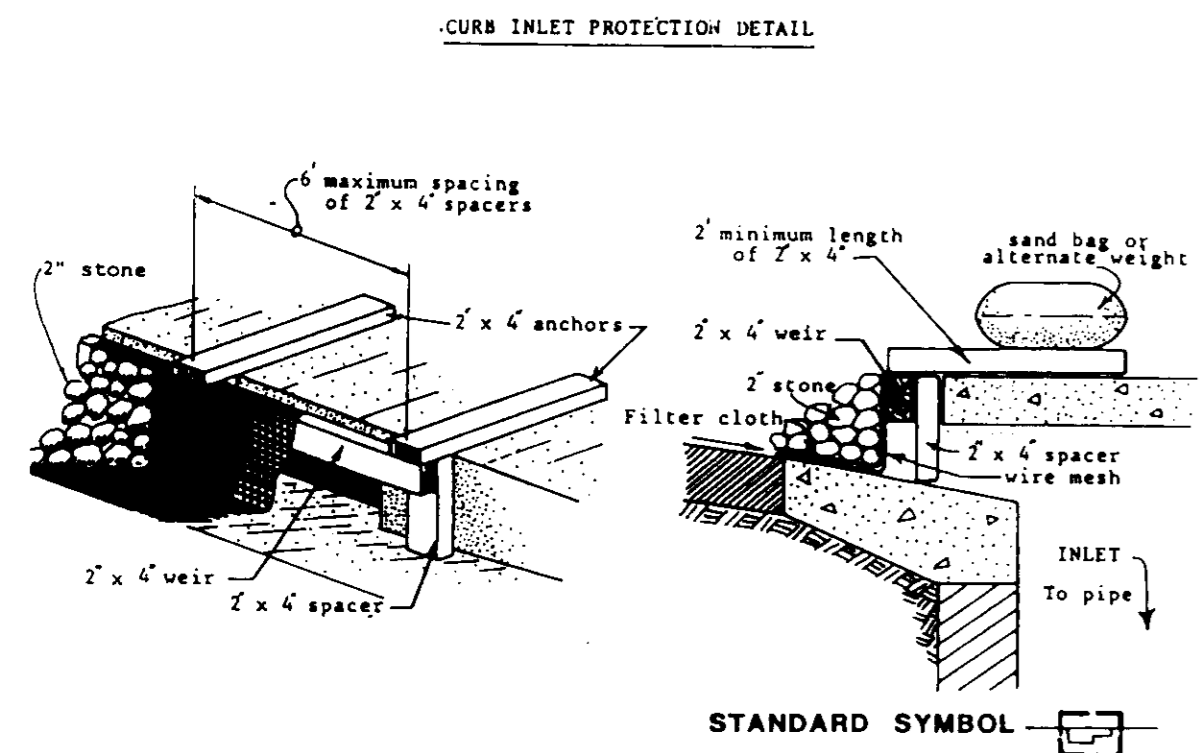
LANDSCAPE PLAN

PROFESSIONAL SEAL  
*[Signature]*

- REVISIONS:
- ISSUED FOR REVIEW
  - Revised per the County comments

DATE	BY	SURVEY BY	FILE NO.
12-6-88		PHR & A	7024-1-0
2-3-89		DESIGN KOR	DATE 12-9-88
		DRAWN JDW	SCALE 1"=30'
		CHECK A.J.B.	SHEET 4 OF 6

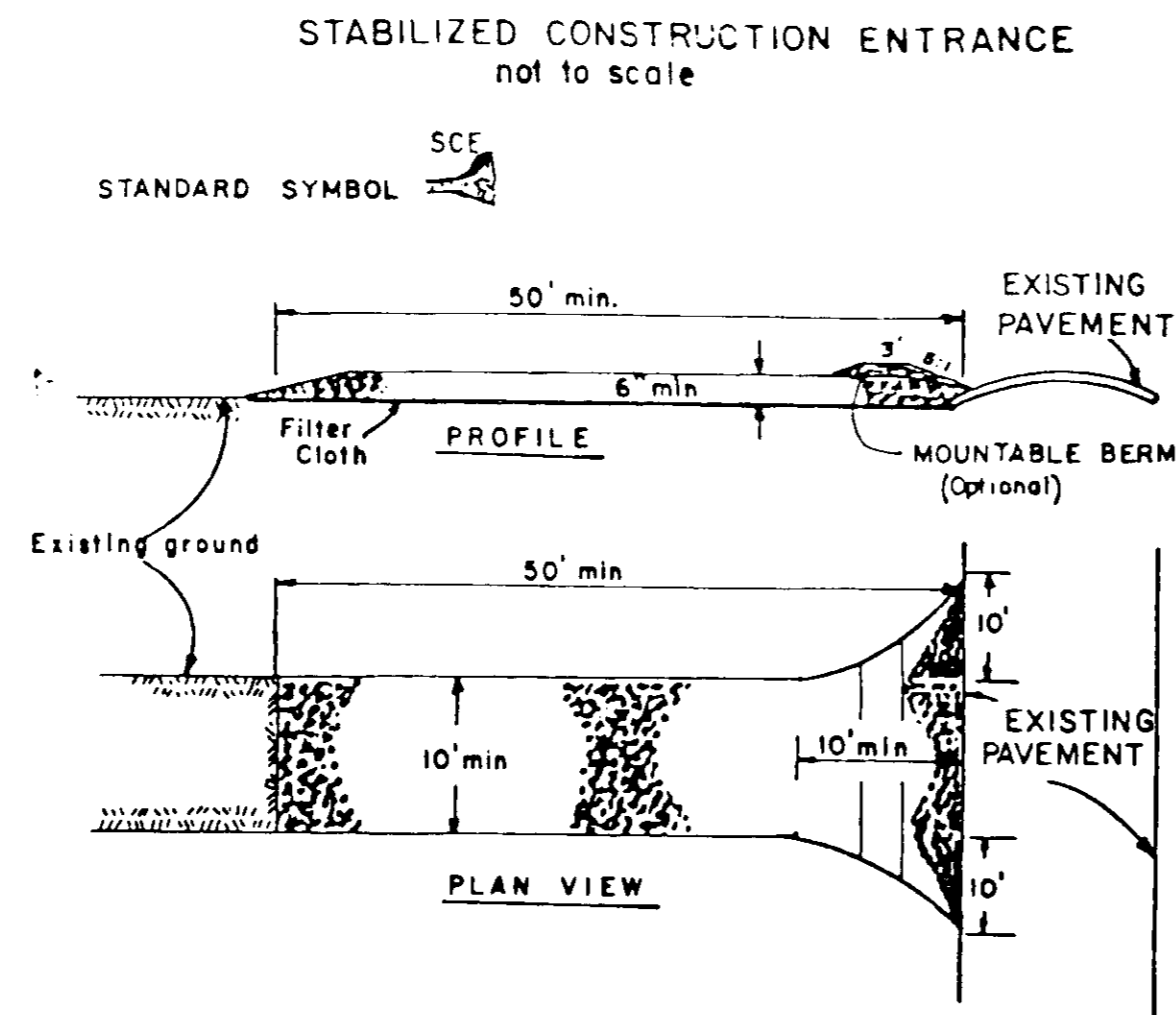
SDP-89-115



**Construction Specifications**

- I. Materials**
- Wooden frame is to be constructed of 2" x 4" construction grade lumber.
  - Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
  - Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size, E05, 40-85, to allow sufficient passage of water and removal of sediment.
  - Stone is to be 2" in size and clean, since fines would clog the cloth.
- II. Curb Inlet Protection**
- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
  - Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
  - Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
  - Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
  - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
  - Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
  - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
  - Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND	INLET PROTECTION DETAIL	STANDARD DRAWING IPD-1
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**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 than 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 beam with 5/16 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.

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

- Sediment controls installed under P-88-288 may not be removed until roads are paved and rights-of-way stabilized and only upon approval of the Howard County sediment control inspector.
- Obtain revised grading permit.
- Provide sediment control protection at inlets as shown on plan. (NOTE: Before inlet protection devices are installed, the roads must be paved and the R/W stabilized.)
- Install stabilized construction entrances, silt fence and swale sediment traps.
- Construct units.
- Silt fence in front of units must be installed as required by the Howard County inspector.
- 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.

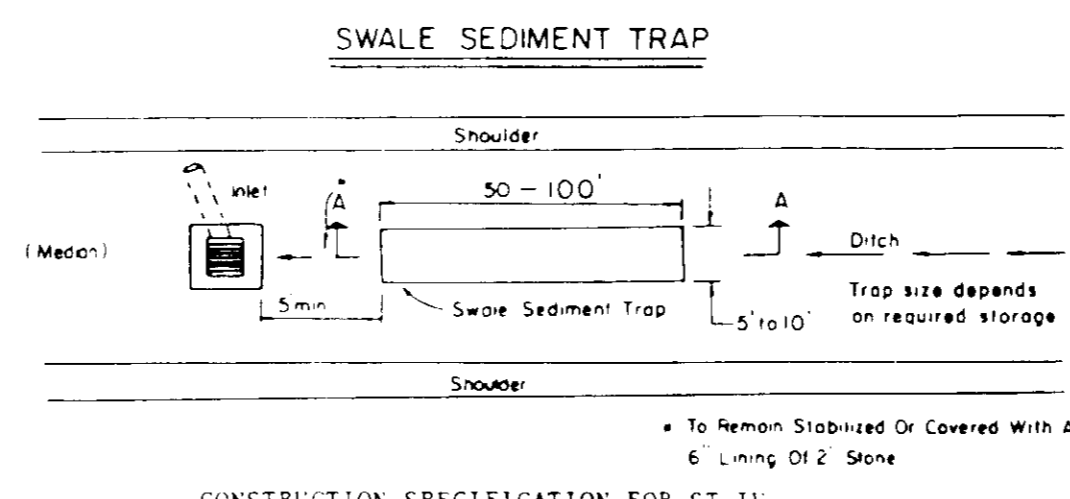
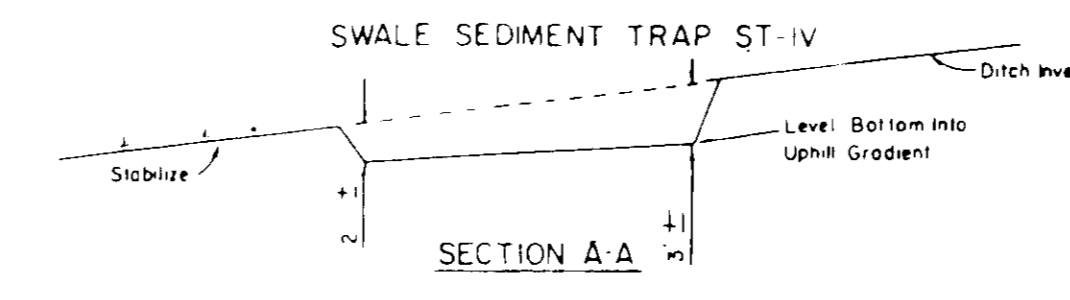
THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS

U.S. Soil Conservation Service Date

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

APPROVED *Stephen L. Fisher* 3/16/89  
Howard S.C.D. Date

PLAN NUMBER



**CONSTRUCTION SPECIFICATION FOR ST-IV**

- The swale sediment trap shall be constructed in accordance with the dimensions provided on the design drawings or sized to provide the minimum storage necessary 1800 cubic feet of storage for each acre of drainage area.
- 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. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- 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 shall be minimized.
- The sediment trap shall be removed and area stabilized when the contributory drainage area has been properly stabilized.
- The swale sediment trap will be properly backfilled and the swale or ditch reconstructed.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK MARYLAND	SWALE SEDIMENT TRAP	STANDARD DRAWING ST-IV
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**SEEDING CONTROL NOTES**

- 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. (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in compliance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 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.
- 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: 1150 Acres  
Area Disturbed: 350 Acres  
Area to be roofed or paved: 120 Acres  
Area to be vegetatively stabilized: 230 Acres  
Total Cut: 7200 Cu. yds.  
Total Fill: 7200 Cu. yds.  
Offsite waste/borrow area location: N/A
- 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 DMW 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.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas but 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 if not previously loosened.

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

- Preferred -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 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).
- 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. Harrow 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 rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 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 reseedsings.

**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 if not previously loosened.

**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 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, 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 rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft 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 rate and methods not covered.

**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 onsite inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

*Kimberly J. von Paris* 3/3/89  
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.

*John J. Fisher* 3/3/89  
Signature of Engineer Date

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM, HOWARD COUNTY HEALTH DEPARTMENT.  
*John J. Fisher* 5-4-89  
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John J. Fisher* 5-18-89  
PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, PUBLIC STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.  
*John J. Fisher* 5-2-89  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John J. Fisher* 5/1/89  
DIRECTOR DATE

HOWARD COUNTY APPROVAL  
*William B. Kelly* 4-28-89  
CHIEF, BUREAU OF ENGINEERING DATE

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

U.S. Soil Conservation Service Date

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

APPROVED *Stephen L. Fisher* 3/16/89  
Howard S.C.D. Date

PLAN NUMBER

**PHR&A**  
Patton Harris-Rust & Associates, Inc.  
Engineers, Surveyors, Planners, Landscape Architects  
7609 Shantosh Place  
Rockville, Maryland 20855  
301-762-2220

Office:  
Fairfax, VA  
Bridgewater, VA  
Lomburg, VA  
Rockville, MD  
Virginia Beach, VA

CLIENT  
OWNER/DEVELOPER  
CORMAN ROAD LIMITED PARTNERSHIP  
C/O JAMES P. KNOTT DEVELOPMENT CORP.  
110 WEST ROAD, SUITE 203  
TOWSON, MARYLAND 21284

JOB  
BOWLING BROOK FARMS  
PARCEL L  
LOTS L-1 THRU L-55  
A RESUBDIVISION OF LOT 71, BOWLING BROOK FARMS  
TAX MAP 47 PARCEL 141  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE  
EROSION & SEDIMENT CONTROL NOTES AND DETAILS

PROFESSIONAL SEAL

NO. 1  
REVISION  
1 ISSUED FOR REVIEW  
2 Revised per Hb County comments

DATE  
12-8-88  
2-3-89

SURVEY BY  
PHR&A

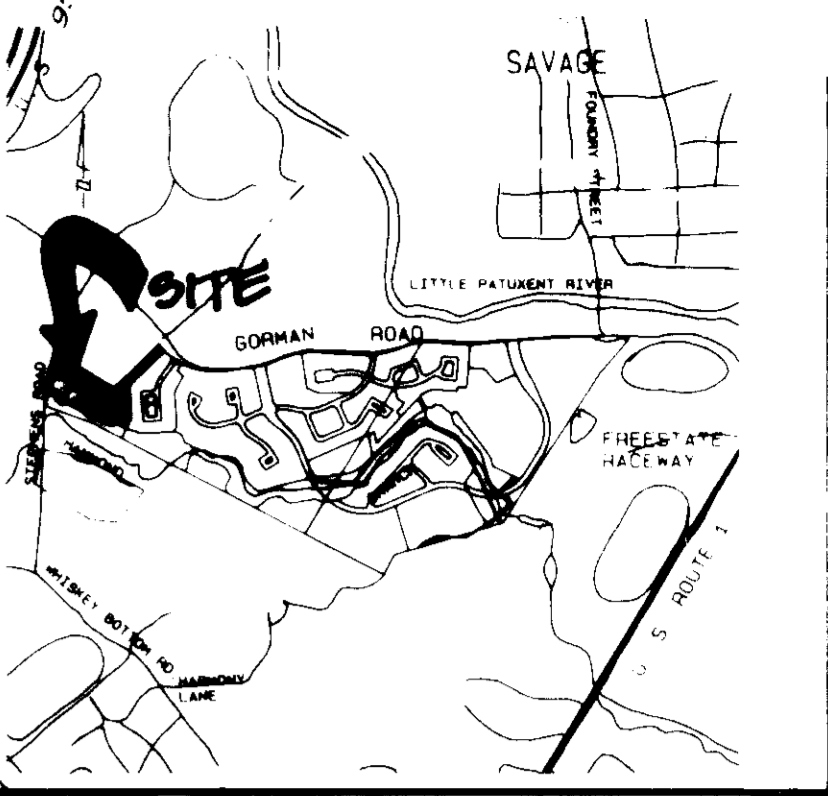
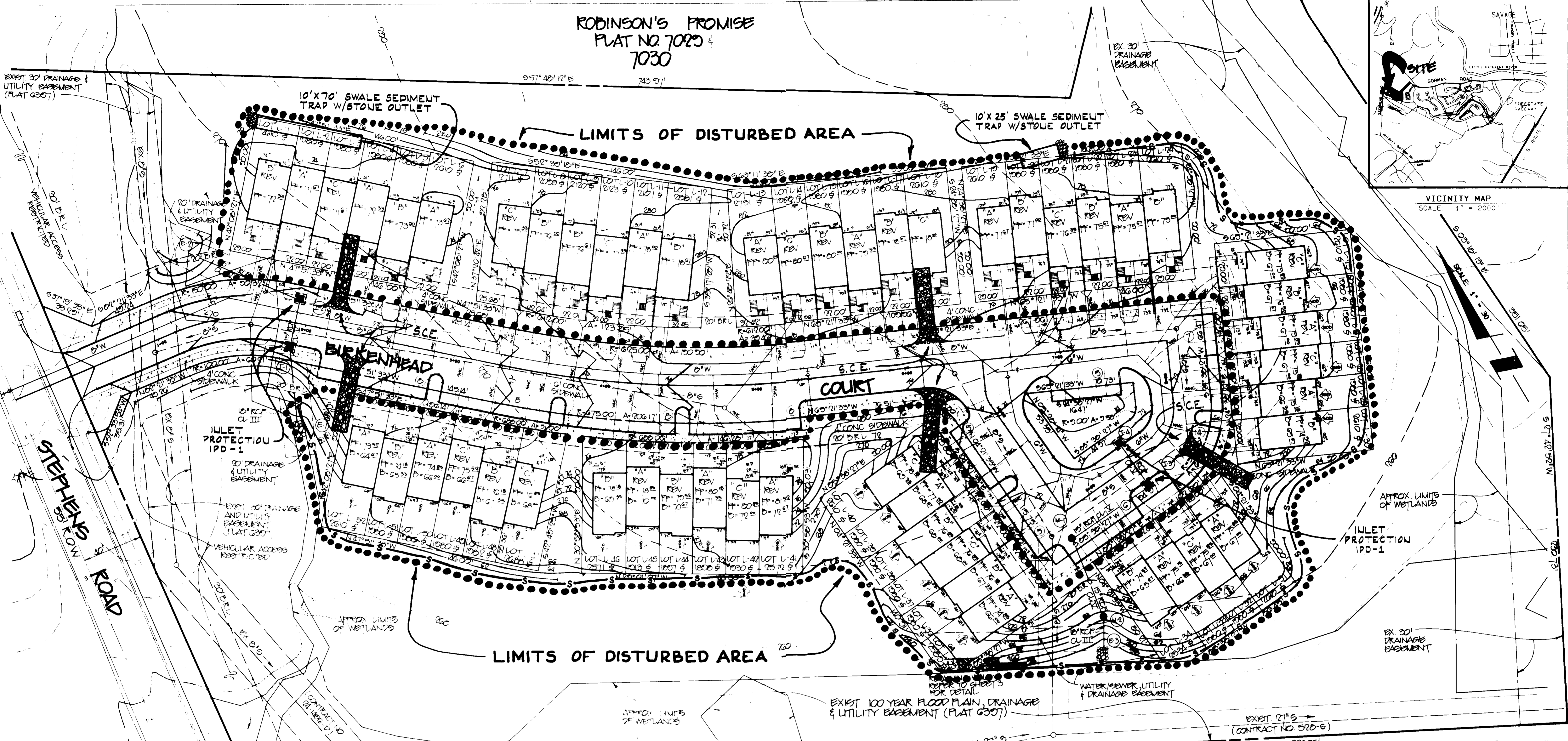
DESIGN  
K.O.R.

DRAWN  
M.F.R.

CHKD

FILE NO. 2104-1-0  
DATE 12-8-88  
SCALE 1"=10'  
SHEET 5 OF 6  
SDP-89-115

ROBINSON'S PROMISE  
FLAT NO. 7025 &  
7030



VICINITY MAP  
SCALE: 1" = 2000'

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

*[Signature]* 5-4-89  
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

*[Signature]* 5-18-89  
PLANNING DIRECTOR DATE

*[Signature]* 5-22-89  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

*[Signature]* 5-11-89  
DIRECTOR DATE

*[Signature]* 4-28-89  
CHIEF, BUREAU OF ENGINEERING DATE

**NOTE:**  
THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY. REFER TO SITE DEVELOPMENT PLAN FOR OTHER INFORMATION.

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

*[Signature]* 3/16/89  
U.S. Soil Conservation Service Date

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

APPROVED *[Signature]* 3/16/89  
Howard S.C.D. Date

PLAN NUMBER \_\_\_\_\_

D.G. & E.  
L. 453 F. 304

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 onsite inspection by the Howard Soil Conservation District or their authorized agents, as deemed necessary.

*[Signature]* 3/13/89  
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]* 3/13/89  
Signature of Engineer Date



Patton Harris Rust & Associates, Inc.  
Engineers, Surveyors, Planners, Landscape Architects  
7609 Sandhill Place  
Rockville, Maryland 20855  
301-762-2221

Office:  
Fairfax, VA  
Bridgewater, VA  
Lansburg, VA  
Rockville, MD  
Virginia Beach, VA

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LOTS L-1 THRU L-55  
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LOTS L-1 THRU L-55  
A RESUBDIVISION OF LOT 71, BOWLING BROOK FARMS  
TAX MAP 47 PARCEL 141  
SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

EROSION & SEDIMENT CONTROL PLAN

PROFESSIONAL SEAL

NO.	REVISION	DATE
1	ISSUED FOR REVIEW	12-8-88
2	Revised per the County comments	2-3-89

SURVEY BY: PHR & A  
DESIGN: KOR  
DRAWN: JDW  
CHECK: \_\_\_\_\_

FILE NO: 2104-1-0  
DATE: 12-8-88  
SCALE: 1" = 30'  
SHEET: 6 OF 6

SDP-89-115