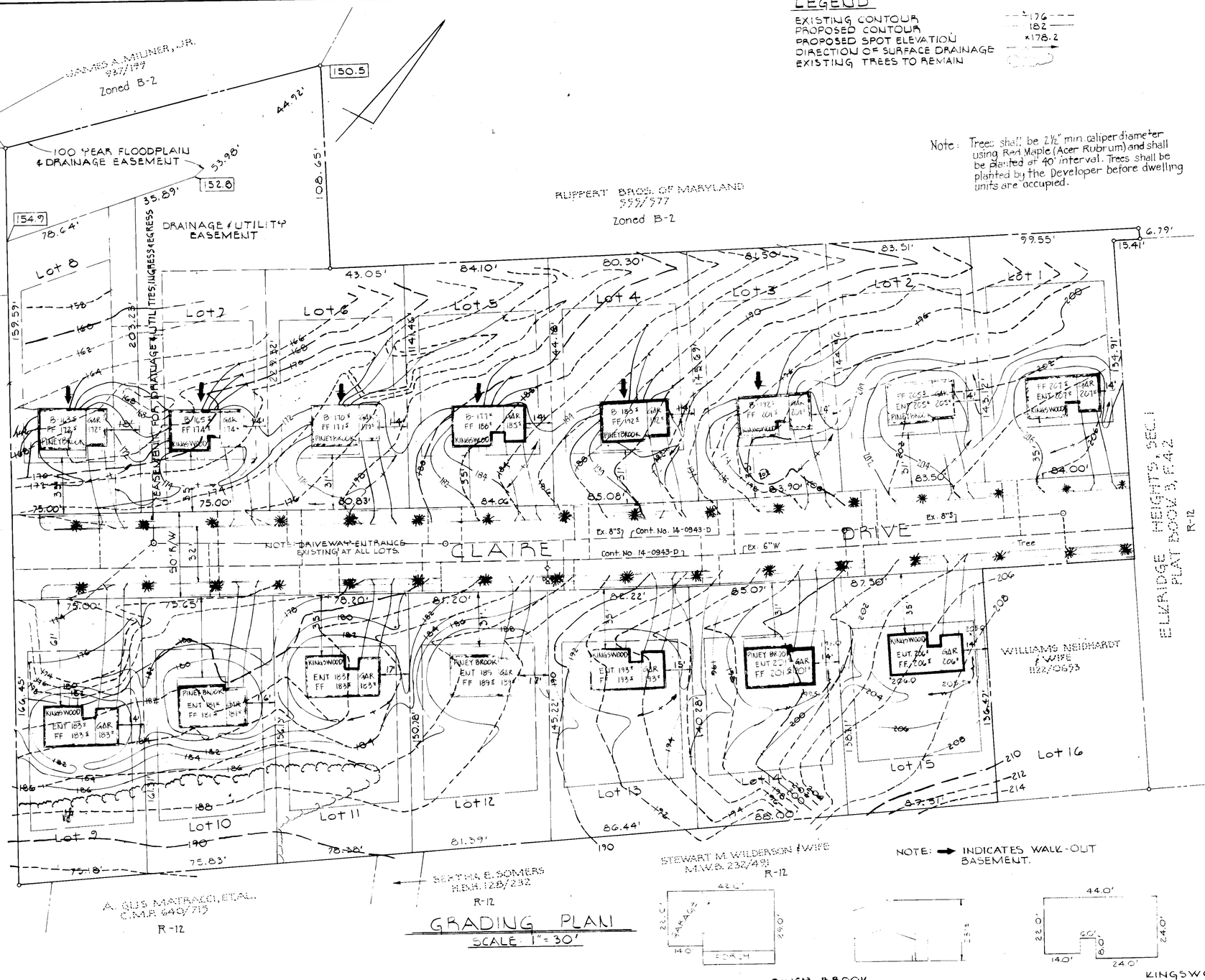
LEGEND

EXISTING CONTOUR 176
PROPOSED CONTOUR 182
PROPOSED SPOT ELEVATION ×178.2
DIRECTION OF SURFACE DRAINAGE
EXISTING TREES TO REMAIN

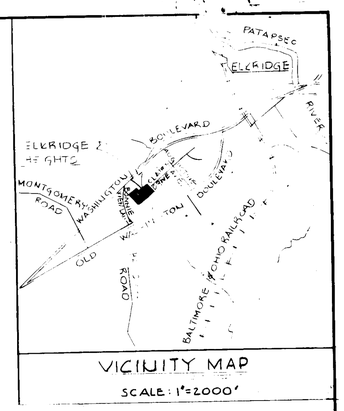
Note: Trees shall be 2½" min. caliper diameter using Red Maple (Acer Rubrum) and shall be planted at 40' interval. Trees shall be planted by the Developer before dwelling units are occupied.



GRADING PLAN
SCALE 1" = 30'

NOTE: → INDICATES WALK-OUT BASEMENT.

HOUSE SCHEMATIC
NO SCALE



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

1. CURRENT ZONING OF PROPERTY: R-12
2. FINAL RECORD PLAT: F-80-31
3. TOTAL AREA COVERED BY SITE DEVELOPMENT PLAN: 5.222 AC.±
4. TOTAL NUMBER OF LOTS: 15
5. ALL ROADWAYS ARE PUBLIC AND EXISTING.
6. ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY OR PAVING SHALL BE CORRECTED AT THE DEVELOPERS EXPENSE.
7. COORDINATES SHOWN HEREON ARE BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
8. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE HOWARD COUNTY VERTICAL CONTROL DATUM.
9. Subject to VP-83-15.

Note: Driveway entrances are existing and constructed in accordance with Howard County Std. Detail R-6.01.

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMIN.
HOWARD COUNTY, MD.
DATE 4-6-83

OWNER & DEVELOPER
SOUDER BUILDERS
9101 OLD SCAGGSVILLE ROAD
LAUREL, MD. 20810

THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: HOWARD SOIL CONSERVATION DISTRICT 5-9-83 DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
SIGNATURE 5/10/83
US SOIL CONSERVATION DIST. DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER 5-16-83 DATE

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore, Maryland 21202 301/837-0194

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
DIRECTOR 5-12-83 DATE
CHIEF BUREAU OF ENGINEERING 5-11-83 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
PLANNING DIRECTOR 5/17/83 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 5-17-83 DATE

DEVELOPER'S CERTIFICATION:
I certify that all development & construction will be done according to this plan and any responsible personnel involve in the construction project will have a certificate of attendance at the Dept. of Natural Resources approved training program for the control of any sediment erosion before beginning the project.
Ronald E. Souder

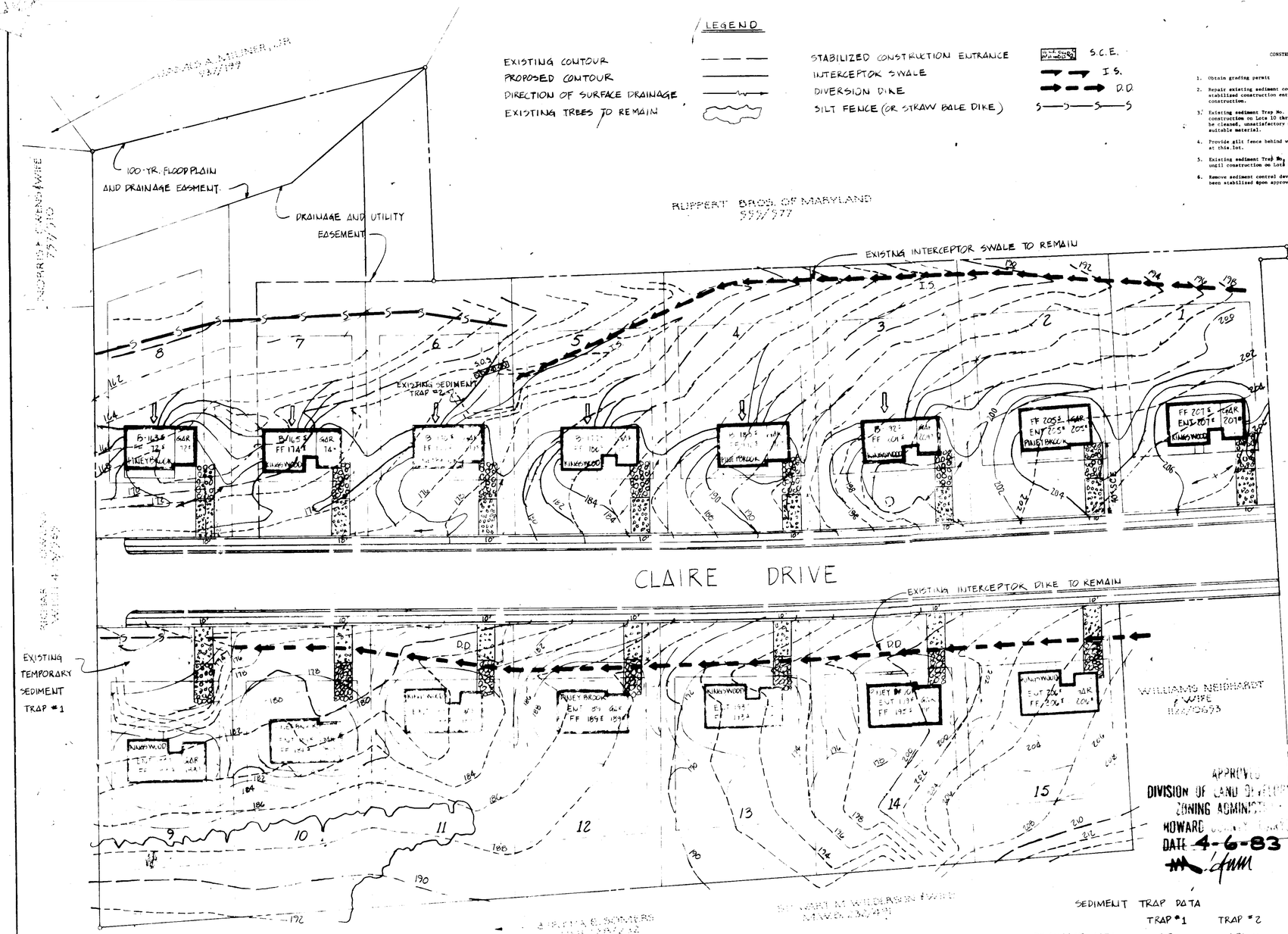
ENGINEERS CERTIFICATION
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD CONSERVATION DISTRICT.
WILLIAM C. PURDUM II 5/5/83 DATE

SITE DEVELOPMENT PLAN
ELKRIDGE HEIGHTS
SECTION NO. 2
LOTS 1 - 15
HOWARD COUNTY, MARYLAND
FIRST ELECTION DISTRICT TAX MAP 38, PARCEL 138
PLAT 4920
SCALE: AS SHOWN MARCH 21, 1983

SHEET 1 OF 2

SDP-83-142

BRUNING ANE 1M32



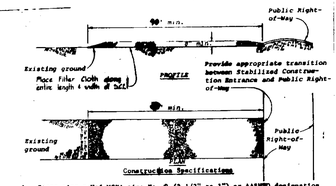
SEDIMENT CONTROL NOTES

1. Specifications for the Sedimental Control Details shown hereon are included in the U.S.D.A. Soil Conservation Service "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas."
2. The developer shall notify the Howard County Office of Inspection and Permits at least 24 hours prior to beginning any construction shown hereon (992-2435 or 992-2436).
3. All sediment control structures to remain in place until permission for their removal has been obtained from the Howard County Office of Inspection and Permits (992-2435 or 992-2436).
4. All graded areas shall be stabilized in accordance with the following requirements:
   - A. Site Preparation:
     - (1) Work or disc the areas to be seeded with the following materials at the specified rate to a depth of 3".
       - (a) Pulverized limestone at 1½ tons/acre.
       - (b) Commercial fertilizer 10-10-10 at 3/4 tons/acre.
       - (c) Super phosphate at 600 lbs./acre.
   - B. Seeding:
     - (1) Sow the following seed mixture at the specified rate with a mechanical spreader:
       - (a) Temporary - Italian or Perennial Ryegrass (1 lb./1000 sq.ft.)
       - (b) Permanent - (Slopes flatter than 3:1) - Common Kentucky Bluegrass 40%, Pennon Bluegrass 40%, Red Fescue 20% (1 lb./1000 sq.ft.) (Slopes steeper than 3:1) - Ground cover
     - (2) The seed shall be covered to a depth of 1/4-inch and the area compacted with a cultipacker or other approved method.
   - C. Mulching:
     - (1) Seeded areas shall be uniformly mulched immediately after seeding with unchaffed small grain straw at the rate of 1½ to 2 tons/acre.
     - (2) Tie mulch down with liquid asphalt at 0.1 gal./s.y. or emulsified asphalt at 0.04 gal./s.y.
   - D. Sodding:
     - (1) Apply 10-10-10 fertiliser at 1000 lbs./acre. (23 lbs./1000 s.f.)
     - (2) Apply ground agricultural limestone at 2000 lbs./acre. (50 lbs./1000 s.f.)
     - (3) Incorporate both lime and fertilizer into soil by discing. Firm up after incorporation.
     - (4) Lay sod to a tight fit. Roll to insure contact with underlying soil. Water as necessary for first two weeks (in summer) to ensure establishment.
   - E. Ground Cover:
     - (1) Crown vetch (innoculated) at 15 lbs./acre, and Kentucky 31 Tall Fescue (certified) at 40 lbs./acre. (2:1 maximum slope)
5. The contractor shall place plywood braced with sand bags at the inlet end of unfinished drain pipes at the end of each work day.
6. All stockpiles shall be protected with straw bale dikes, silt fences, or other approved sediment control devices.
7. Specific control measures shown on this plan may be altered, with previous approval of the Sediment Control Inspector, in location or extent as required to fit changed conditions encountered at the site.

CONSTRUCTION SEQUENCE

1. Obtain grading permit
2. Repair existing sediment control devices as required. Install stabilized construction entrance at each lot before beginning construction.
3. Existing sediment Trap No. 1 on Lot 9 shall remain in use until construction on Lots 10 thru 15 is completed. Trap shall then be cleaned, unsatisfactory material removed and trap filled with suitable material.
4. Provide silt fence behind walk at Lot 10 during construction at this lot.
5. Existing sediment Trap No. 2 on Lot 6 shall remain in use until construction on Lots 1 thru 5 is complete.
6. Remove sediment control devices when construction areas have been stabilized upon approval of Sediment Control Inspector.

STABILIZED CONSTRUCTION ENTRANCE (not to scale)

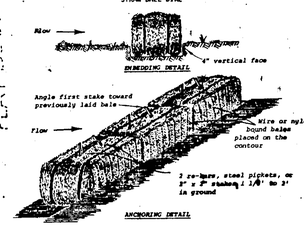


Construction Specifications

1. Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 1 (3-1/2" to 1-1/2"). Use crushed stone.
2. Length - As effective, but not less than 50 feet.
3. Thickness - Not less than eight (8) inches.
4. Width - Not less than full width of all points of ingress or egress.
5. Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
6. 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.

Standard Symbol — SCE

STRAW BALE DIKE*



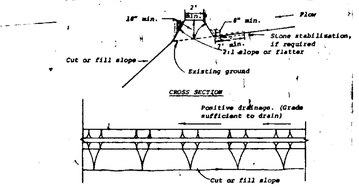
Construction Specifications

1. Bales shall be placed in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a minimum of 4".
3. Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
4. Inspection shall be frequent and repair or replacement shall be made promptly as needed.
5. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

Standard Symbol — SBD

* Drainage area less than 1/2 acre.

DIVERSION DIKE*



Construction Specifications

1. All dikes shall be machine compacted.
2. All diversion dikes shall have positive drainage to an outlet.
3. A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
   B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
4. Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
5. Periodic inspection and required maintenance shall be provided.

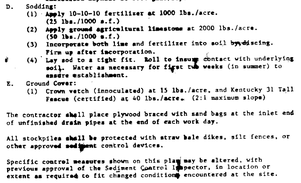
Standard Symbol — DD

* Drainage area less than 5 acres

INTERCEPTOR SWALE

(not to scale)

2:1 or flatter

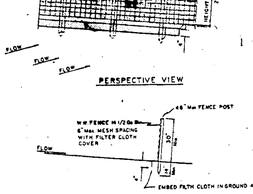


Construction Specifications

1. All crown, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
2. The swale shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damages in the completed swale.
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the swale.
5. Interceptor swales shall have a minimum grade of one percent and the bottom shall be level.
6. An interceptor swale shall have an outlet that functions with a minimum of erosion.
7. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin.
8. The on-site location may need to be adjusted to meet field conditions in order to utilize the most suitable outlet.
9. Stabilization shall be: (1) in accordance with the Standard and Specifications for Grassed Waterway; or (2) by lining the flow area with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 in a layer at least 3 inches in thickness and pressed into the soil. The lining shall extend across the bottom and up both sides of the channel a height of at least 8 inches vertically above the bottom.
10. Periodic inspection and required maintenance shall be provided.

Standard Symbol — IS

SILT FENCE DETAIL



CONSTRUCTION NOTES

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 WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION
3. SEE STEP BY STEP PROCEDURE ON BACK OF THIS SHEET.

STANDARD SYMBOL

SECTION

POSTS: STEEL EITHER T or U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE (14 1/2 GA. min.) 6" MESH OPENING

FILTER CLOTH: FILTER X (MIRAFI 100X), LAUREL EROSION CONTROL CLOTH, ROWE POLYFILTER X OR EQUAL

* DRAINAGE AREA LESS THAN 1/2 ACRE

SEDIMENT TRAP DATA

	TRAP #1	TRAP #2
DRAINAGE AREA	4.3	1.21 ac.
REQUIRED VOLUME	7740 CF	2180 CF
VOLUME PROVIDED	8220 CF	2400 CF
BOTTOM ELEVATION	172.0	171.5
CLEANOUT ELEVATION	174.0	173.0
OUTLET TYPE	INLET SEDIMENT TRAP	STONE OUTLET STRUCTURE L=20'

SITE ANALYSIS

TOTAL AREA OF SITE	5.220 ac ±
AREA TO BE ROOFED	0.35 ac ±
AREA TO BE PAVED	0.14 ac ±
AREA TO BE SEEDED	3.10 ac ±
AREA UNDISTURBED	1.63 ac ±

SEDIMENT CONTROL PLAN

SCALE 1" = 30'

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

APPROVED: _____ HOWARD SOIL CONSERVATION DISTRICT — 5-5-83 DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

T. Kwan SIGNATURE — 5/11/83 DATE

US SOIL CONSERVATION DIST.

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

_____ COUNTY HEALTH OFFICER — 5-16-83 DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
DATE 4-6-83

OWNER & DEVELOPER

SOUDER BUILDERS
9010 Old Scaggsville Road
Laurel, MD. 20810

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.

_____ DIRECTOR — 5-12-83 DATE

_____ CHIEF BUREAU OF ENGINEERING — 5-11-83 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

_____ PLANNING DIRECTOR — 5/17/83 DATE

_____ CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — 5-17-83 DATE

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_____ Donald E. Souder

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_____ WILLIAM R. RASCH II — 5/5/83 DATE

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1023 North Calvert Street
Baltimore Maryland 21202 · 301/837/0194

SITE DEVELOPMENT PLAN
ELKRIDGE HEIGHTS
SECTION NO. 2
LOTS 1 - 15
HOWARD COUNTY, MARYLAND
FIRST ELECTION DISTRICT TAX MAP 38, PARCEL 138
PLAT 4920
SCALE: AS SHOWN MARCH 21, 1983

SHEET 2 OF 2

SDP-83-142