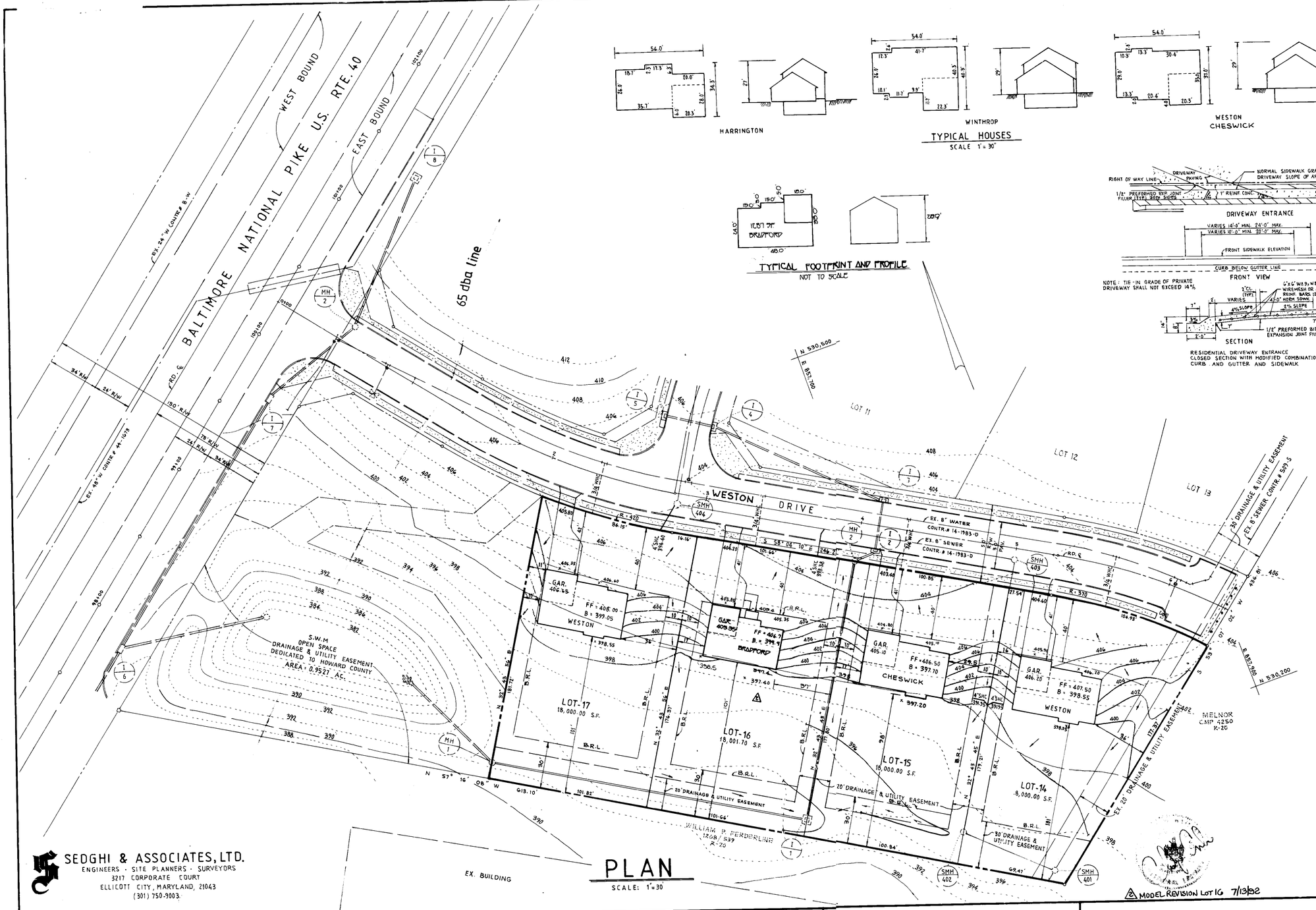
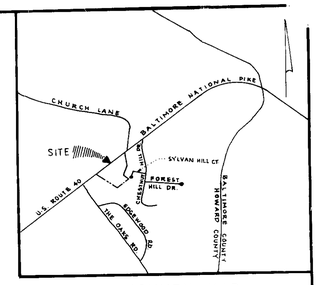


TYPICAL HOUSES
SCALE 1" = 30'

TYPICAL FOOTPRINT AND PROFILE
NOT TO SCALE



VICINITY MAP
SCALE: 1" = 2000'

GENERAL NOTES

1. THE LAND INCLUDED IS ZONED : R-20
2. COORDINATES ARE BASED UPON TRAVERSE CONTROLS ESTABLISHED FOR HOWARD COUNTY, AND WHICH CONTROLS WERE TIED TO THE MARYLAND STATE COORDINATE SYSTEM.
3. ALL ROADS ARE PUBLIC AND EXISTING.
4. ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE OWNERS EXPENSE.
5. TOTAL AREA INCLUDED : 4.657 ACRES.
6. TOTAL NUMBER OF LOTS : 11
7. THE CONTRACTOR OR DEVELOPER SHALL CONTACT HOWARD COUNTY CONSTRUCTION / INSPECTION DIVISION, 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 792-7272.
8. SEE F-89-220, P-89-56, S-88-89.
9. THE TOPO ON THIS PLAN IS BASE FROM FIELD RUN TOPOS.
10. S.W.M. HAS BEEN PROVIDED UNDER F-89-220.
11. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, 1989 AMENDMENTS.
12. THERE ARE NO WETLAND ON THIS SITE.

ADDRESS CHART	
LOT NOS.	STREET ADDRESS
LOT 1	8203 CHANDLER COURT
LOT 2	8207 CHANDLER COURT
LOT 3	8211 CHANDLER COURT
LOT 4	8215 CHANDLER COURT
LOT 5	8219 CHANDLER COURT
LOT 6	8223 CHANDLER COURT
LOT 7	8218 CHANDLER COURT
LOT 14	8216 WESTON DRIVE
LOT 15	8212 WESTON DRIVE
LOT 16	8208 WESTON DRIVE
LOT 17	8204 WESTON DRIVE

PLAN
SCALE: 1" = 30'

2 MODEL REVISION LOT 16 7/13/92

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ENGINEERS · SITE PLANNERS · SURVEYORS
3217 CORPORATE COURT
ELLICOTT CITY, MARYLAND, 21043
(301) 750-9003

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER — DATE 3/15/91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — DATE 3/18/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/12/91

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR — DATE 3/8/91
CHIEF, BUREAU OF ENGINEERING — DATE 3-7-91

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. SOIL CONSERVATION SERVICE — DATE 2/14/91

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD COUNTY SOIL CONSERVATION DISTRICT — DATE 2/14/91

REVISION			
NO	DESCRIPTION	DATE	BY
1	REVISE HOUSES LOTS 16 AND 15, & B.L.R. SETBACK	3-11-92	VS
2	MODEL REVISION LOT 16 HARRINGTON TO BRADFORD	7-13-92	PCC

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENT 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 SOILS CONSERVATION DISTRICT.

Mike Sedghi — 1-21-91
SIGNATURE OF ENGINEER — DATE

DEVELOPER'S CERTIFICATE

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

SIGNATURE OF DEVELOPER — DATE 1-21-91

SUBDIVISION NAME: CHESTNUT RIDGE | SECTION: | LOTS: 1 TO 7 & 14 TO 17

PLAT NO:	BLOCK NO:	ZONE:	TAX MAP:	ELEC. DIST.	CENSUS TR.
9762-63	20	R-20	18	2 ND	6025

WATER CODE F-01 | SEWER CODE 1451500

M. Sedghi

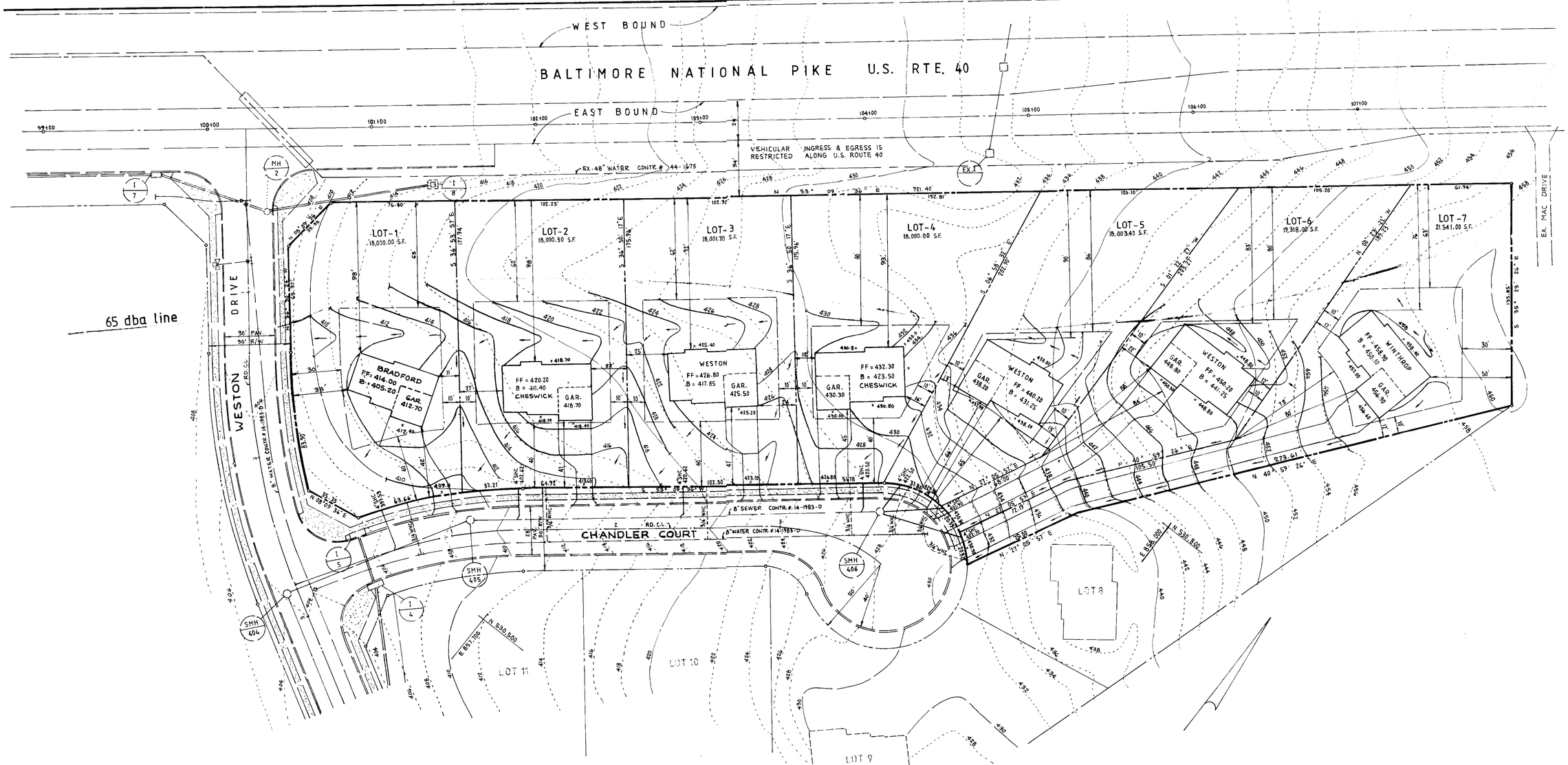
DESIGNED BY: V.S
DRAWN BY: V.S
CHECKED BY: M.S

SITE DEVELOPMENT PLAN
CHESTNUT RIDGE
LOTS 1 TO 7 & 14 TO 17
TAX MAP 18 PARCEL 62
2ND ELECTION DISTRICT
HOWARD COUNTY, MD.

SCALE: 1" = 30'
DRAWING NO. 1 OF 5
DATE 1-21-91

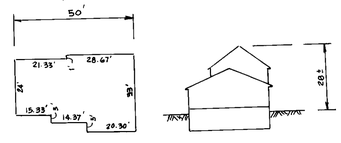
DEVELOPER
40 WEST BUILDERS
1007 LESLIE AVENUE
CATONSVILLE, MD. 21223

SDP-92-07



PLAN

SCALE: 1"=30'



TYPICAL HOUSE
BRADFORD
SCALE: 1"=30'

10/5/92
REV. 4

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3217 CORPORATE COURT
ELLICOTT CITY, MARYLAND, 21043
(301) 750-9003

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3/15/91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — DATE 3/18/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/18/91

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
DIRECTOR — DATE 3/8/91
CHIEF, BUREAU OF ENGINEERING MK — DATE 3-7-91

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. SOIL CONSERVATION SERVICE — DATE 2/14/91

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD COUNTY SOIL CONSERVATION DISTRICT — DATE 2/14/91

REVISION

NO	DESCRIPTION	DATE	BY
1.	REVISE ROAD NAMES	2-11-92	V.S.
2.	REVISE HOUSES, LOT 2 & 4	3-24-92	V.S.
3.	REVISE HOUSE, LOT-1	5-14-92	V.S.
4	REMOVE CHECK PRMT, LOT 7	10-15-92	PCG

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENT 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 SOILS CONSERVATION DISTRICT.

STATE OF MARYLAND — MICHAEL SEDGHI — 11204 — PROFESSIONAL ENGINEER

SIGNATURE OF ENGINEER — DATE 1-21-91

DEVELOPER'S CERTIFICATE

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

SIGNATURE OF DEVELOPER — DATE 1-21-91

SUBDIVISION NAME: CHESTNUT RIDGE		SECTION:		LOTS: 1 TO 7 & 14 TO 17	
PLAT NO: 9762-63	BLOCK NO: 20	ZONE: R-20	TAX MAP: 18	ELEC. DIST. 2ND	CENSUS TR. 6025
WATER CODE F-01		SEWER CODE 1451500			

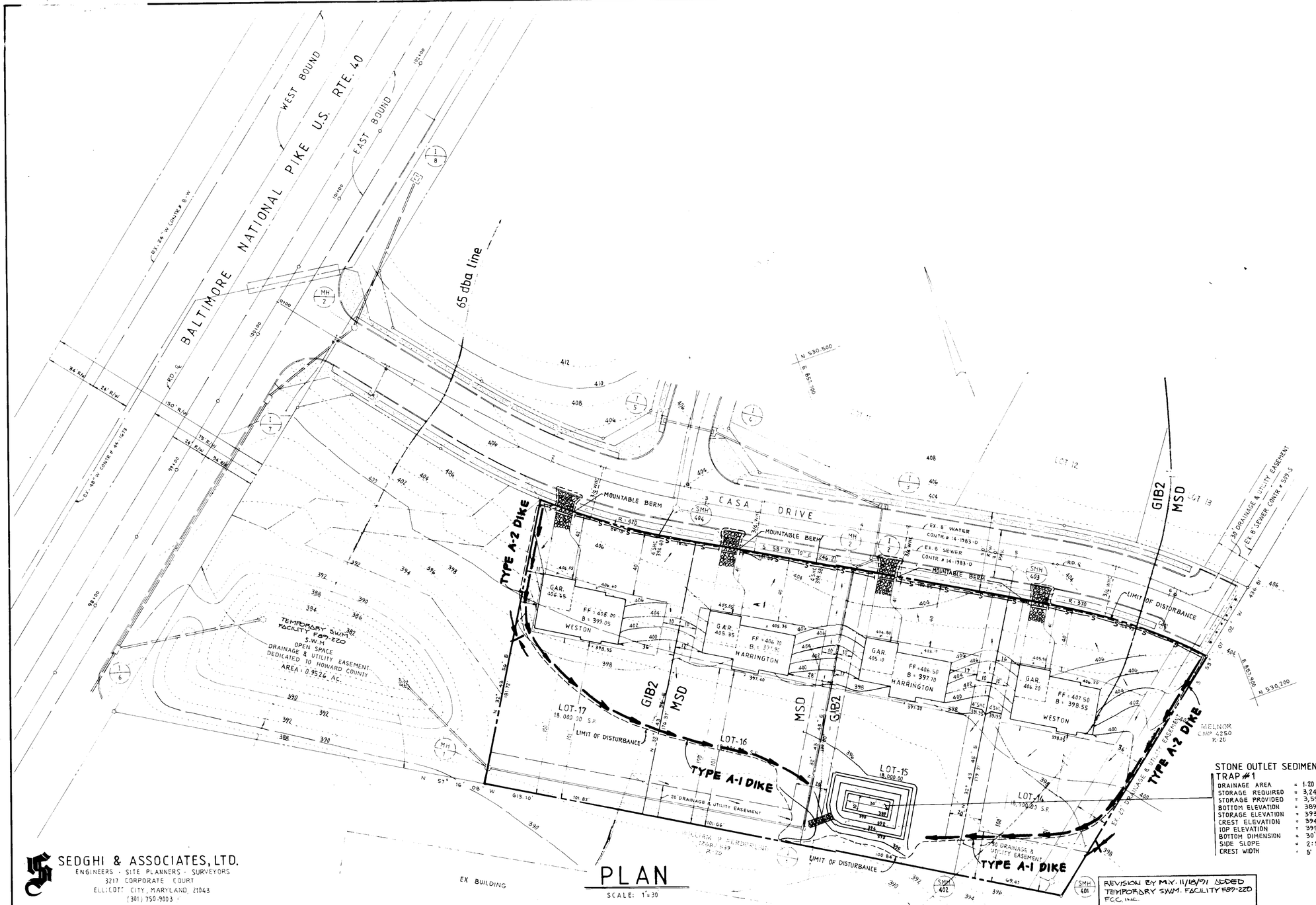
DESIGNED BY: V.S
DRAWN BY: V.S
CHECKED BY: M.S

SITE DEVELOPMENT PLAN
CHESTNUT RIDGE
LOTS 1 TO 7 & 14 TO 17
TAX MAP 18 PARCEL 62
2ND ELECTION DISTRICT
HOWARD COUNTY, MD.

SCALE: 1"= 30
DRAWING NO: 2 OF 5
DATE: 1-21-91

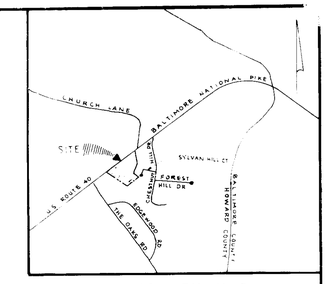
DEVELOPER
40 WEST BUILDERS
1007 LESLIE AVENUE
CATONSVILLE MD 21223

SDP-90-07



PLAN

SCALE: 1"=30



VICINITY MAP

SCALE: 1=2000

SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT.
2. INSTALL SEDIMENT AND EROSION CONTROL MEASURES.
3. CLEAR AND ROUGH GRADE SITE.
4. CONSTRUCT HOUSES AND DRIVEWAYS.
5. FINE GRADE AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS.
6. WITH THE APPROVAL OF SEDIMENT CONTROL INSPECTORS, REMOVE SEDIMENT AND EROSION CONTROL ONCE ALL AREAS DRAINING TO THEM ARE STABILIZED.

SEDIMENT CONTROL LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- x 435 SPOT ELEVATION
- —S—S— SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- DIKE
- MOUNTABLE BERM
- LIMIT OF DISTURBANCE
- DRAINAGE AREA

STONE OUTLET SEDIMENT (ST-V)

TRAP #1

DRAINAGE AREA	=	1.20 Ac
STORAGE REQUIRED	=	3,240 C.F.
STORAGE PROVIDED	=	3,592 C.F.
BOTTOM ELEVATION	=	389
STORAGE ELEVATION	=	393
CREST ELEVATION	=	394
TOP ELEVATION	=	395
BOTTOM DIMENSION	=	30'X10'
SIDE SLOPE	=	2:1
CREST WIDTH	=	5'

HOWARD COUNTY SOIL MAP # 16

REVISION BY M.Y. 11/18/91 ADDED TEMPORARY SWM. FACILITY F89-220 FCC, INC.

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3217 CORPORATE COURT
ELLICOTT CITY, MARYLAND 21043
(301) 750-9003

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3/15/91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — DATE 3/18/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 6/10/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 6/8/91
CHIEF, BUREAU OF ENGINEERING MK — DATE 3-7-91

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
U.S. SOIL CONSERVATION SERVICE — DATE 2/14/91

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD COUNTY SOIL CONSERVATION DISTRICT — DATE 2/14/91

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENT 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 SOILS CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER — DATE 1-21-91

DEVELOPER'S CERTIFICATE

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SIGNATURE OF DEVELOPER — DATE 1-21-91

SUBDIVISION NAME: NOVA SQUARE — SECTION — LOTS: 1 TO 7 & 14 TO 17
PLAT NO. 9762-63 — BLOCK NO. 20 — ZONE R-20 — TAX MAP 19 — ELEC. DIST. 2ND — CENSUS TR. 6025
WATER CODE F-01 — SEWER CODE 1451500

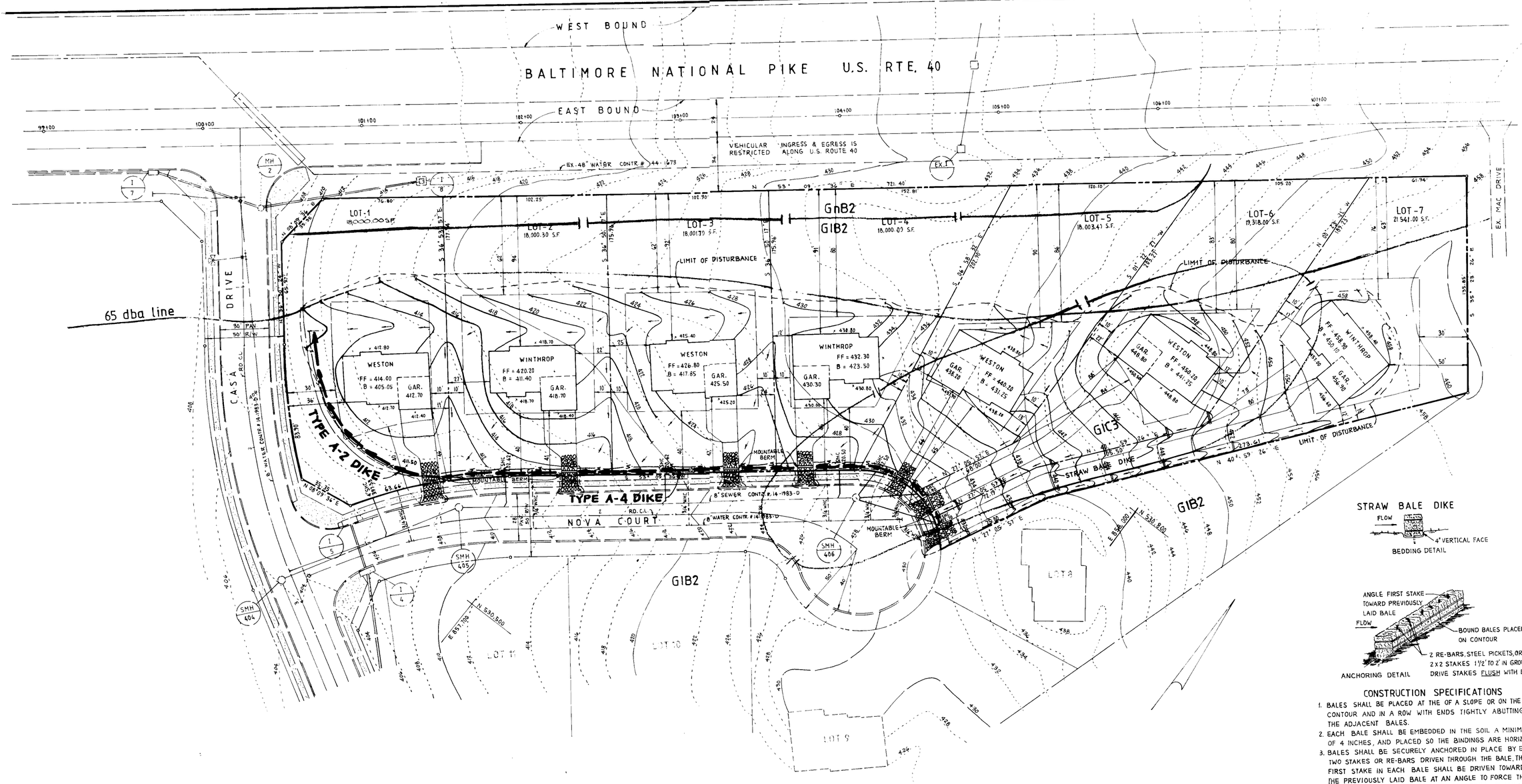
ENGINEER: V.S
DRAWN BY: V.S
CHECKED BY: M.S

SEDIMENT CONTROL PLAN
NOVA SQUARE
LOTS 1 TO 7 & 14 TO 17
TAX MAP 19 PARCEL 62
2ND ELECTION DISTRICT
HOWARD COUNTY, MD.

SCALE: 1"=30'
SHEET NO. 3 OF 5
DATE: 1-21-91

DEVELOPER
40 WEST BUILDERS
1007 LESLIE AVENUE
CATONSVILLE, MD. 21228

SDP-90-55



PLAN

SCALE: 1=30'

STRAW BALE DIKE

BEDDING DETAIL

ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR 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.

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3217 CORPORATE COURT
ELLICOTT CITY, MARYLAND, 21043
(301) 750-9003

REVISION: BY MK 11/18/91 REMOVED SEDIMENT TRAP FROM LOT 1 & REMOVE EARTH DIKE, ADDED SILT FENCE ALONG EARTH DIKE F.C.C. MK

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — M. KHAN 13208 — REVISION 11/18/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — DATE 3/15/91

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DIRECTOR — DATE 3/18/91
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 3/15/91

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 3/8/91
CHIEF, BUREAU OF ENGINEERING MK — DATE 3-7-91

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
U.S. SOIL CONSERVATION SERVICE — DATE 2/14/91

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
HOWARD COUNTY SOIL CONSERVATION DISTRICT — DATE 2/14/91

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENT 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 SOILS CONSERVATION DISTRICT.

STATE OF MARYLAND — M. KHAN — No. 13208 — PROFESSIONAL ENGINEER

SIGNATURE OF ENGINEER — DATE 1-21-91

DEVELOPER'S CERTIFICATE

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

SIGNATURE OF DEVELOPER — DATE 1-21-91

SUBDIVISION NAME: NOVA SQUARE		SECTION:		LOTS: 1 TO 7 & 14 TO 17	
PLAT NO: 9762-63	BLOCK NO: 20	ZONE: R-20	TAX MAP: 18	ELEC. DIST. 2ND	CENSUS TR. 6025
WATER CODE F-01		SEWER CODE 1451500			

DESIGNED BY: V.S
DRAWN BY: V.S
CHECKED BY: M.S

SEDIMENT CONTROL PLAN
NOVA SQUARE
LOTS 1 TO 7 & 14 TO 17
TAX MAP 18 PARCEL 62
2ND ELECTION DISTRICT
HOWARD COUNTY, MD.

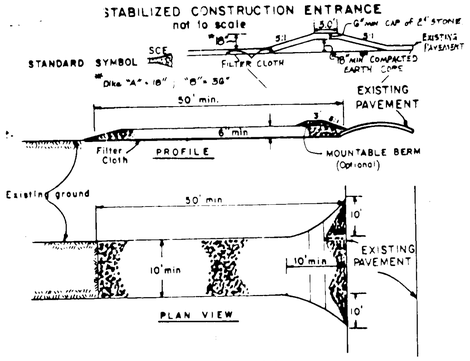
SCALE: 1"= 30'
DRAWING NO 4 OF 5
DATE: 1-21-91

DEVELOPER
40 WEST BUILDERS
1007 LESLIE AVENUE
CATONSVILLE MD 21223

SDP-90-07

STABILIZED CONSTRUCTION ENTRANCE

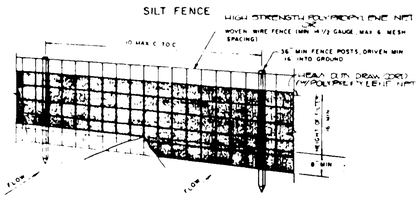
not to scale



CONSTRUCTION SPECIFICATIONS

1. **Stone Size** - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. **Length** - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. **Thickness** - Not less than six (6) inches.
4. **Width** - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. **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.
6. **Surface Water** - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. **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.
8. **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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

SILT FENCE



CONSTRUCTION NOTES FOR 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" AT TOP AND MID SECTION
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE

POSTS: STEEL EITHER T OR U TYPE OR 1¼" Min (Actual) HARDWOOD

FENCE: WOVEN WIRE, 14½ GA. MIN. 6" MESH SPACING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABINKA TYPAR OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFENCE, OR APPROVED EQUAL

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FUTURE DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

Seedbed Preparation: Loosen upper 3 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.

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. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9lbs./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. 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 1½ 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 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 reseedings.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREA LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

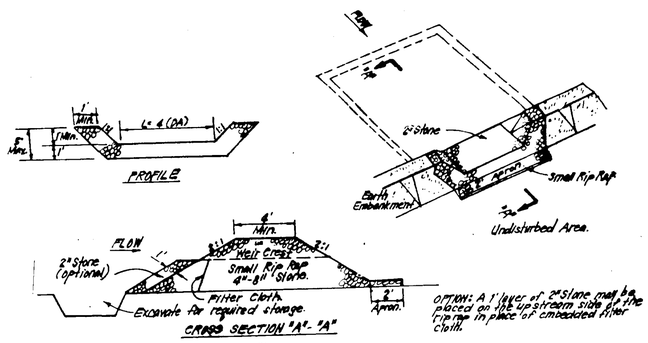
Seedbed Preparation: Loosen upper 3 inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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 2½ bu. per acre of annual rye (5.2 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 1½ 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 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 MD. STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



CONSTRUCTION SPECIFICATIONS:

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with crawler tractor while it is being constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small rip-rap 2"-8" stone with 1' thickness of 2" aggregate placed on the up-grade side on the small rip-rap to embedded filter cloth in the rip-rap.
5. Sediment shall be removed and the storage restored to the original dimensions when the sediment has accumulated to ½ the design depth of the trap.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST-V.

no scale

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SPECIFICATIONS

1. Class of turfgrass sod shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved sod.
2. Sod shall be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness shall exclude top growth and thatch.
3. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
4. Individual pieces of sod shall be cut to the suppliers width and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pads and torn or uneven ends will not be acceptable.
5. Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
6. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transplanted within this period shall be inspected and approved prior to its installation.

I. **Site Preparation**

Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown under B, below.

A. Prior to sodding, the surface shall be cleared of all trash, debris, and of all roots, brush, wire, grade stakes and other objects that would interfere with planting, fertilizing or maintenance operations.

B. Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 2 tons/acre or 100 pounds per 1,000 square feet. In all soils 1,000 pounds per acre or 25 pounds per 1,000 square feet of 10-10-10 fertiliser or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.

C. All areas receiving sod shall be uniformly fine graded Hard-packed earth shall be scarefied prior to placement of sod.

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. (992-2437)
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 redisturbance, 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 ad 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, Chaper 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. 31) 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.
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	4.18 Acres
Area Disturbed	3.03 Acres
Area to be roofed or paved	0.65 Acres
Area to be vegetatively stabilized	2.38 Acres
Total Cut	1000 Cu. yds
Total Fill	1000 Cu. yds
Offsite waste/borrow area location	N/A

8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9) Additional sediment control must be provided, if deemed necessary by the Howard County DEW 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.
11) If houses are to be constructed on the "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented.'''
12) All pipes to be blocked at the end of each day (see detail below).
13) The total amount of straw bale dikes/silt fence equals 2,300 L.F.

GENERAL NOTES

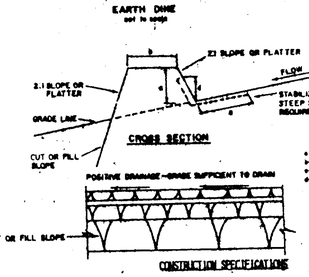
1) Refer to "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for standard details and detailed specifications of each practice specified herein.
2) With the approval of the sediment control inspector, minor field adjustments can and will be made to insure the control of any sediment. Changes in sediment control practices require prior approval of the sediment control inspector and the County Soil Conservation District.
3) At the end of each working day, all sediment control practices will be inspected and left in operational condition.
4) Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a.) seven calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and b.) fourteen days as to all other disturbed or graded areas on the project site.
5) Any change to the grading proposed on this plan requires re-submission to County Soil Conservation District for approval.
6) Dust control will be provided for all disturbed areas. Refer to 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, pp 6501 and 62.02 for acceptable methods and specifications for dust control.
7) Any variation from the sequence of operations stated on this plan requires the approval of the sediment control inspector and the County Soil Conservation District prior to the initiation of the change.
8) Excess cut or borrow material shall go to or come from, respectively, a site with an approved sediment control plan.

The following item may be used as applicable:

9) Refer to "Maryland's Guidelines to Waterway Conastruction" by the Water Resources Administration (WRA), dated January, 1986 for standard details and detailed specifications of each practice specified herein for waterway construction.

EARTH DIKE

not to scale



	DIKE A (Dia or Min)	DIKE B (5-10 dia.)
a- DIKE HEIGHT	18"	30"
b- DIKE WIDTH	24"	36"
c- FLOW WIDTH	6'	6'
d- FLOW DEPTH	9"	15"

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

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-5.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR) SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

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

EARTH DIKE

NO SCALE

M. Sedghi

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

COUNTY HEALTH OFFICER — DATE 3/15/91

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING

DIRECTOR — DATE 3/28/91

CHIEF DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 3/28/91

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

DIRECTOR — DATE 3/8/91

CHIEF BUREAU OF ENGINEERING — DATE 3-7-91

Reviewed for HOWARD SCD and meets technical requirements

U.S. SOIL CONSERVATION SERVICE — Date 2/14/91

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

2/14/91 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 DEPT. OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

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 COUNTY SOIL CONSERVATION DISTRICT.

Mike Sedghi — 1-21-91 DATE

SEDGHI & ASSOCIATES, LTD.
Engineers · Site Planners · Surveyors
3217 Corporate Court
Ellicott City, MD 21043
(301) 750-6888

DESIGNED	V.S.
DRAWN	V.S.
CHECKED	M.S.
DATE	1-21-91

SEDIMENT CONTROL DETAIL
NOVA SQUARE
LOTS 1 TO 7 & 14 TO 17
TAX MAP 18 PARCEL 62
2ND ELECTION DISTRICT
HOWARD COUNTY, MD.

DEVELOPER 40 WEST BUILDERS
1007 LESLIE AVENUE
CATONSVILLE, MD. 21228

SCALE	AS SHOWN
DRAWING	5 OF 5
JOB NO	
FILE NO	

SDP-90-07