

ENGINEER'S CERTIFICATE

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 Soil Conservation District.

10-13-94
Date

BUILDER'S CERTIFICATE

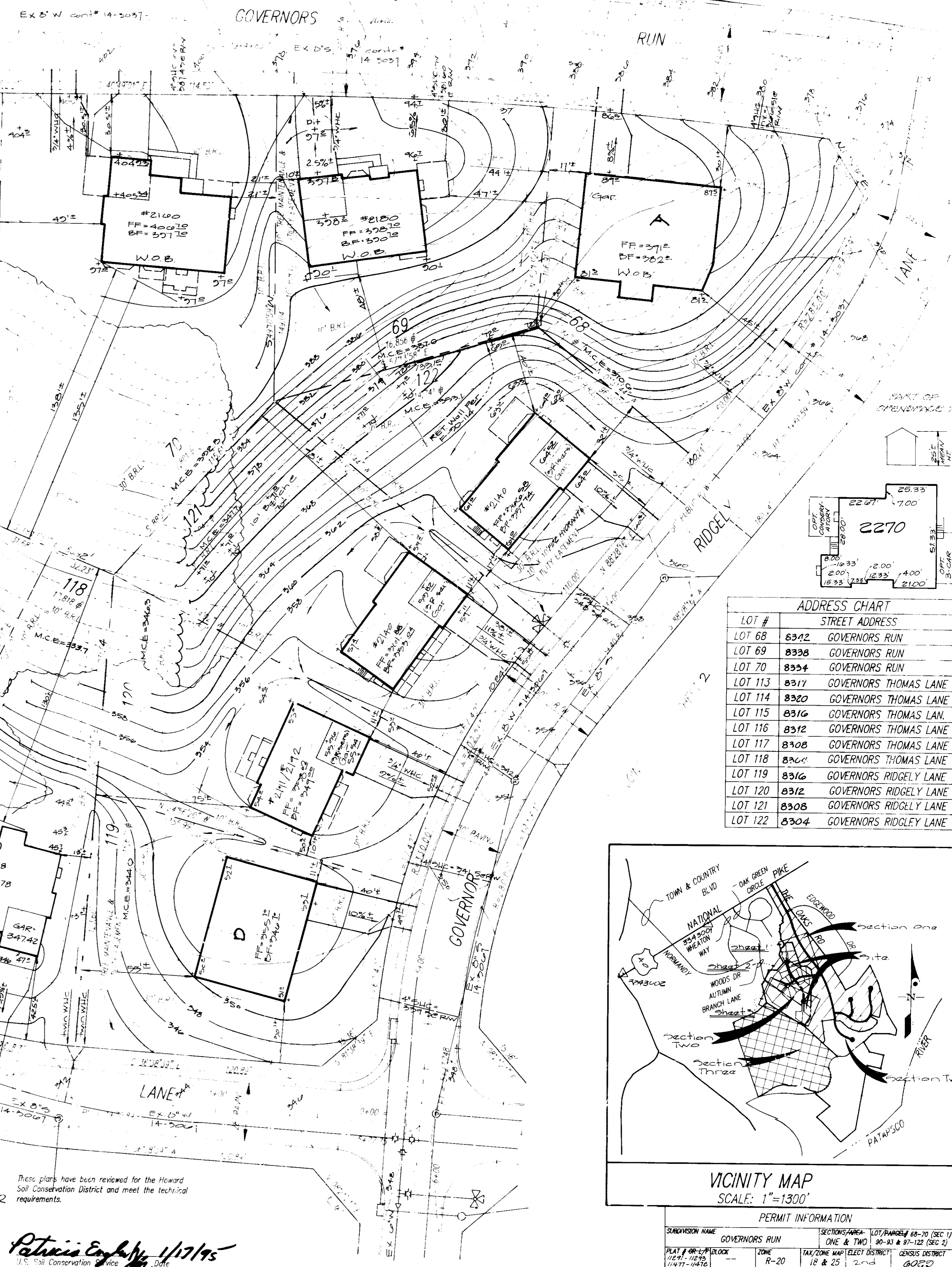
I/We certify that all development and/or construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD.

10-13-94
Date

Signature of Builder
Louis C. Smitu

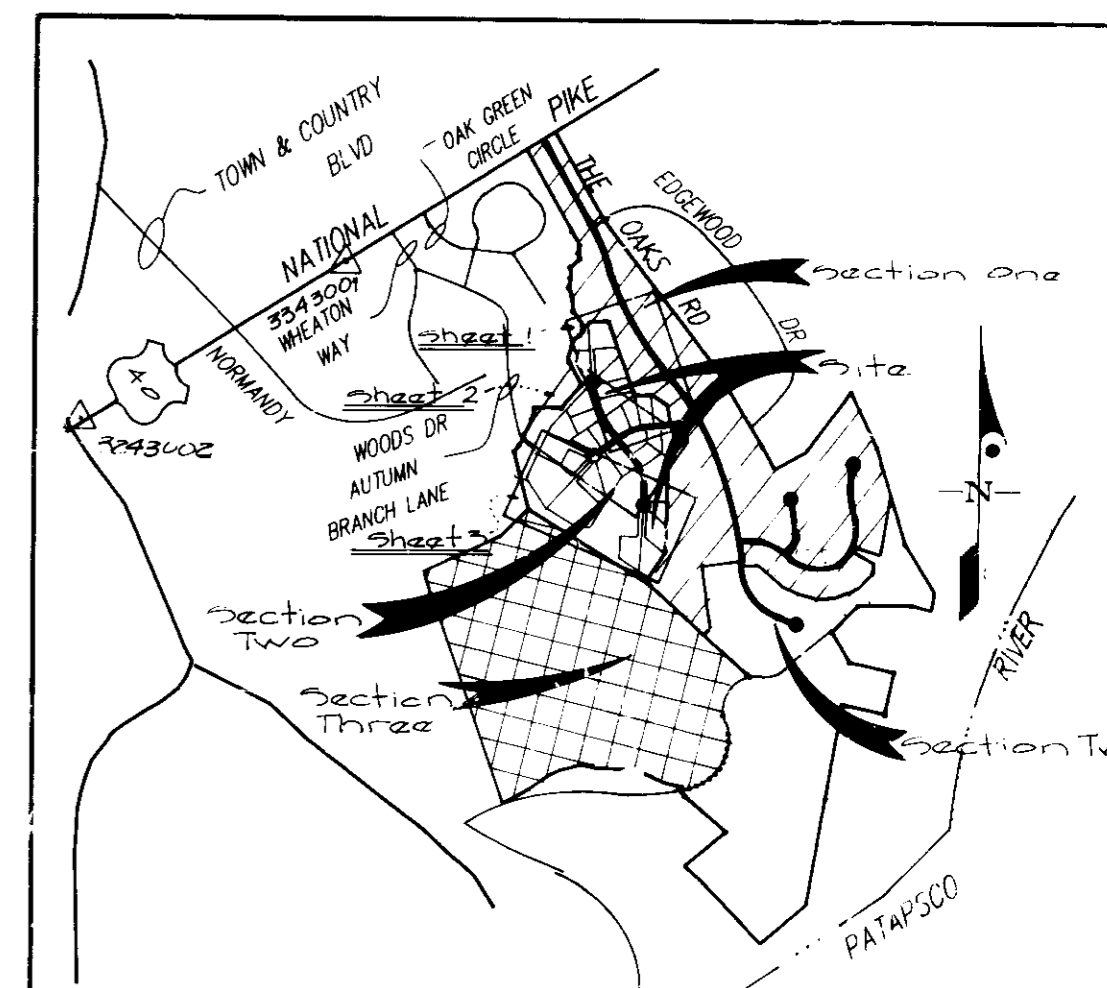
GENERAL NOTES

- The contractor shall notify the Department of Public Works Bureau of Construction Inspection at (410) 313-1880 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-1772 at least 48 hours prior to any excavation work.
- See also Howard County files: S-87-29, P-87-68, (Approved 2/8/88) NP-88-02, NP-87-107, F-90-100 and F-90-114.
- Contours from Lot No. 11241-11293 AND 11477-11478. Topo from F-90-109/114 3rd topo created by Photogrammetric Data Services, Inc. in 1988. CONTOUR INTERVAL IS 5 FEET.
- Horizontal and vertical control datum is based on Howard County Geodetic Control Station 3143051 and 3243002.
- Any damage to the County's right-of-way shall be corrected at the developer's expense.
- Existing utilities were located from existing road construction drawings (F-90-109/114) and existing water and sewer contracts (14-3037 AND 14-3067 D).
- Site analysis:
 - This project is Zoned R-23.
 - Total area of Subdivisible lots: 18.07 Ac±
 - Limit of subdivision: approx. 13.07 ±
 - Total number Subdivisible lots: 11
- The maximum allowable coverage by structure on any lot is 30%.
- All fireplace chimneys and bay windows not more than 10 feet in width may project over the lot not more than 4 feet into any required yard in accordance with Section 12B of the Zoning Regulations.
- The wetland and stream buffers indicated on this plan does not affect the initial construction of a residential unit on a lot. They do prohibit subsequent clearing, grading or construction in the buffer area maintenance of residences, landscaping and utilities is permitted.
12. STORMWATER MANAGEMENT CONTROL BY PUBLIC SWM FACILITIES PER F-90-114.



ADDRESS CHART

LOT #	STREET ADDRESS
LOT 68	8342 GOVERNORS RUN
LOT 69	8338 GOVERNORS RUN
LOT 70	8334 GOVERNORS RUN
LOT 113	8317 GOVERNORS THOMAS LANE
LOT 114	8320 GOVERNORS THOMAS LANE
LOT 115	8316 GOVERNORS THOMAS LANE
LOT 116	8312 GOVERNORS THOMAS LANE
LOT 117	8308 GOVERNORS THOMAS LANE
LOT 118	8304 GOVERNORS THOMAS LANE
LOT 119	8316 GOVERNORS RIDGELY LANE
LOT 120	8312 GOVERNORS RIDGELY LANE
LOT 121	8308 GOVERNORS RIDGELY LANE
LOT 122	8304 GOVERNORS RIDGELY LANE



VICINITY MAP
SCALE: 1"=1300'

Legend

- Ex Contour
- Prop Contour
- Limit of Disturbance (L.D.)
- Earth Dike
- Silt Fence
- Storm Drain Entrance
- Street Light (per F)
- Ex Irrigation
- Prop. Trailing / Trailing to remain
- Tree Protection Fence
- Curbside Protection (CIP)

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.

Signature of Engineer
Date 1/17/95

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

Signature of Engineer
Date 1/17/95

APPROVED: [Signatures and Dates]

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE MD 20866

DATE	REVISION	BY	APPN
5-29-91	Site 2180 on Lot 114 & Re-use Grading	WBJ	
11-15-92	Site 2180 on Lot 118 AND REUSE GRADING		
10-9-93	RESITE LOT 116 TO 2270 & ADD BLDG. FOOTPRINT	JKV	
4-11-95	Resite Lots 69 & 70		

BUILDER/CONTRACT PURCHASER
RICHMOND AMERICAN HOMES
5701 FENDER DR #200
FAIRFAX, VA 22030
(703) 382-0800

DEVELOPER/OWNER
GREENBAUM & ROSE
ASSOC., INC
1620 REISTENTOWN RD #410
BALTIMORE, MD 21208
(410) 184-8400

Site Development Plan
Governors Run
Sections one & two
lots 68-70 (sec. 1);
lots 119-122 (sec. 2)
2nd Election District
Howard County, Md.

DES: MBT	SCALE: 1"=30'	CONING: R 20	U.L.W. FILE NO: 94-080
DRN: MCF/LIH	DATE: Oct. 94	TAX MAP NO: 18625	SHEET: 1 of 7
CHK: CKG			

PERMIT INFORMATION

SUBDIVISION NAME: GOVERNORS RUN	SECTION/AREA: LOT 68-70 (SEC 1) & LOT 119-122 (SEC 2)
PLAT # & BLOCK: 11241-11293	TAX ZONE MAP/ELECT DISTRICT: R-20 / 18 & 25
LOCAL ORDER: 18625	SEWER DISTRICT: 6072D
WATER CODE: F01	SEWER CODE: 1450000

NET LOT AREA CHART

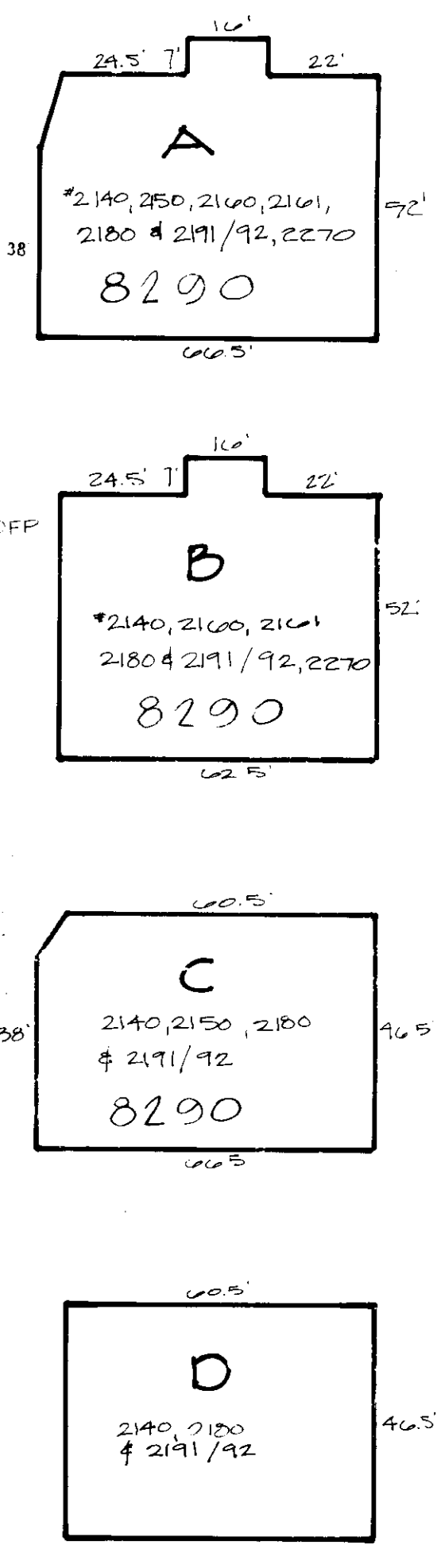
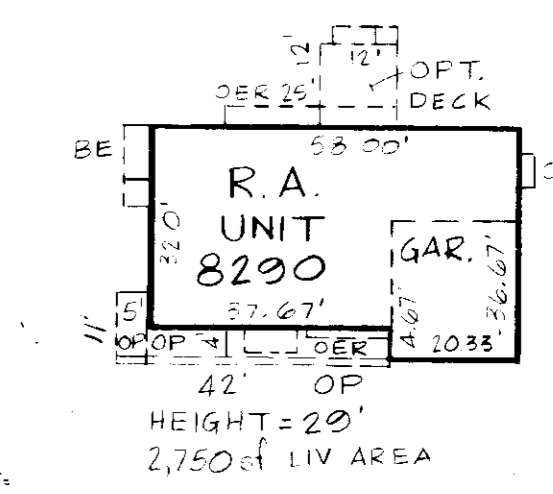
LOT NO.	GROSS AREA S. F.	PIPESTEM AREA	REMAINING AREA	STEEP SLOPES	MIN. LOT SIZE
68	17,992	---	17,992	4,120	19,472
69	16,866	---	16,866	3,960	18,960
70	21,901	---	21,901	2,475	25,020
90	16,584	---	16,584	3,060	19,524
91	14,211	---	14,211	720	19,471
92	14,580	---	14,580	990	14,221
93	14,145	---	14,145	990	19,195
97	15,037	---	15,037	1,780	19,057
98	28,408	---	28,408	5,915	22,440
99	32,537	1,340	31,197	9,125	22,474
100	31,841	1,200	30,641	4,895	19,746
101	21,661	---	21,661	3,990	17,071
102	27,631	---	27,631	19,725	22,474
103	27,497	---	27,497	5,697	24,800
104	75,468	4,031	71,437	40,338	31,099
105	64,498	3,925	60,573	16,515	44,058
106	32,116	---	32,116	1,071	18,945
107	28,280	2,600	25,680	5,320	20,340
108	27,417	2,989	24,428	3,807	20,621
109	18,621	---	18,621	---	19,121
110	18,441	---	18,441	---	18,441
111	21,423	---	21,423	---	21,423
112	17,972	---	17,972	5,301	19,121
113	31,839	2,800	29,039	8,847	19,121
115	22,610	---	22,610	4,671	17,929
116	20,208	---	20,208	2,452	17,196
117	21,609	---	21,609	5,043	19,121
118	17,818	---	17,818	2,483	15,325
119	15,671	---	15,671	387	15,284
120	14,441	---	14,441	1,411	19,028
121	17,045	---	17,045	4,770	12,475
122	14,741	---	14,741	1,809	15,952

ADDRESS CHART

LOT #	STREET ADDRESS
LOT 90	8305 GOVERNOR RIDGELY LANE
LOT 91	8309 GOVERNOR RIDGELY LANE
LOT 92	8313 GOVERNOR RIDGELY LANE
LOT 93	8305 GOVERNOR KENT TERRACE
LOT 101	8321 GOVERNOR RIDGELY LANE
LOT 108	8328 GOVERNOR RIDGELY LANE
LOT 109	8324 GOVERNOR RIDGELY LANE
LOT 110	8320 GOVERNOR RIDGELY LANE
LOT 111	8305 GOVERNOR THOMAS LANE
LOT 112	8309 GOVERNOR THOMAS LANE

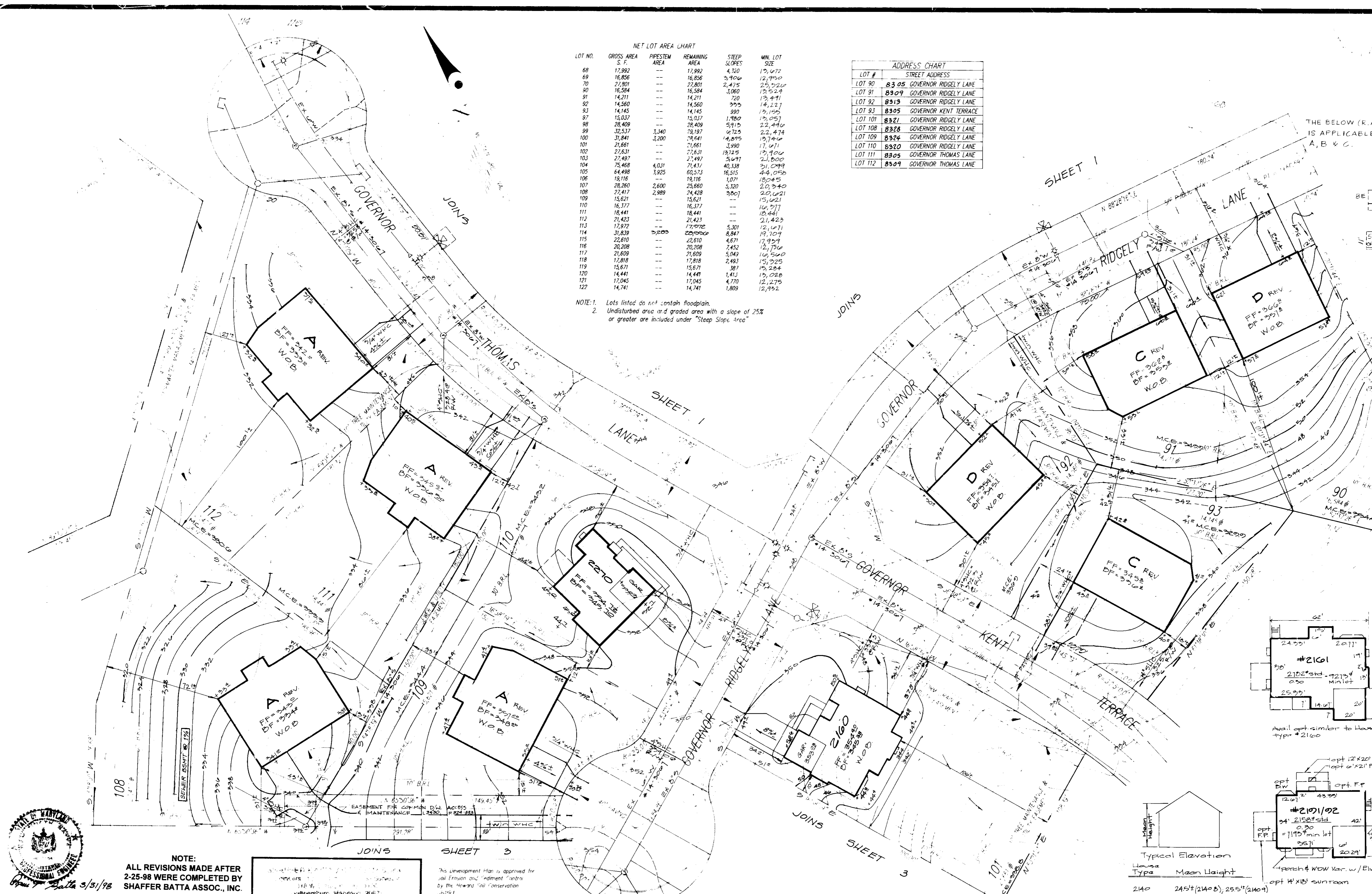
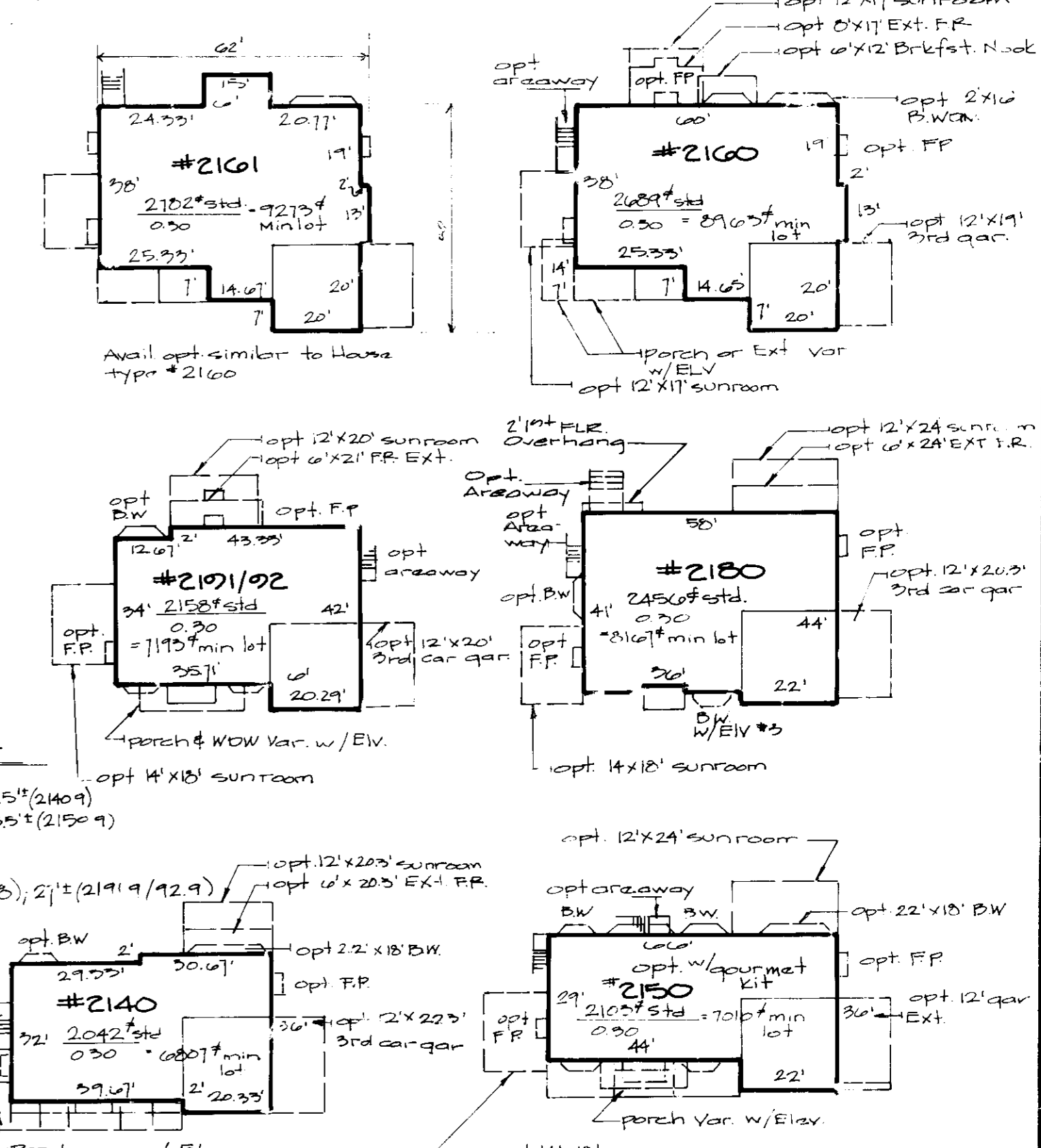
NOTE: 1. Lots listed do not contain floodplain.
2. Undisturbed area and graded area with a slope of 25% or greater are included under "Steep Slope Area"

THE BELOW (R.A. UNIT) FOOTPRINT IS APPLICABLE TO GENERIC BOXES A, B & C.



Generic Box Sizes

NOTE: 1. Generic Boxes do not include Opt. Sunroom, Room Extensions, Awnings or 2nd Car. Gar.



NOTE: ALL REVISIONS MADE AFTER 2-25-98 WERE COMPLETED BY SHAFER BATTI ASSOC., INC.

APPROVED: *Howard J. Batta* 2/24/95
John J. Sauer 2/23/95
 Director Date

APPROVED: *John J. Sauer* 1/19/95
Patricia England 1/17/95
 Director Date

NO.	DATE	DESCRIPTION	BY	APP.
2-21-98		ADDED FOOTPRINT 8290		
7-21-97		Added Opt Awnings to 2180 Home Type	WJL	
12-17-90		Added 2270 House on lot 110	WJL	
10-25-86		SITED 2160 HOUSE ON LOT 101	WJL	

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

John R. Batta 1/17/95
 District Engineer

Patricia England 1/17/95
 District Engineer

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE, SUITE 250, BURTONSVILLE OFFICE PARK, BURTONSVILLE, MD 20866

DATE	REVISION	BY	APP.
7-21-97	Added Opt Awnings to 2180 Home Type	WJL	
12-17-90	Added 2270 House on lot 110	WJL	
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Site Development Plan
Governors Run
 sections one & two
 lots 68-70 (sec. 1); 70-95 & 97-122 (sec. 2)
 2nd Election District
 Howard County, Md.

DES. MBT
 DRN. MCF/LIU
 CHK. CKG

SCALE 1"=30'

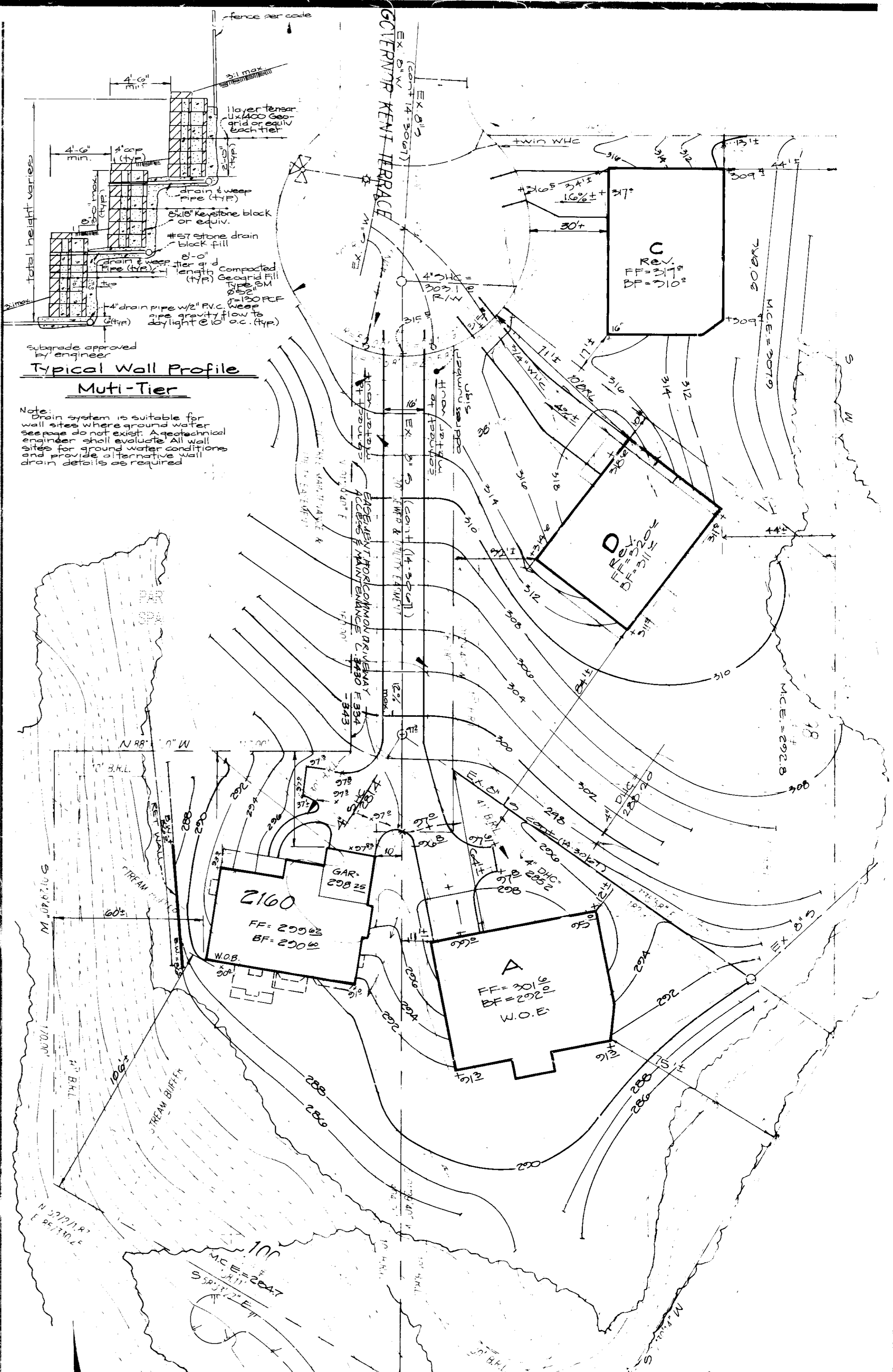
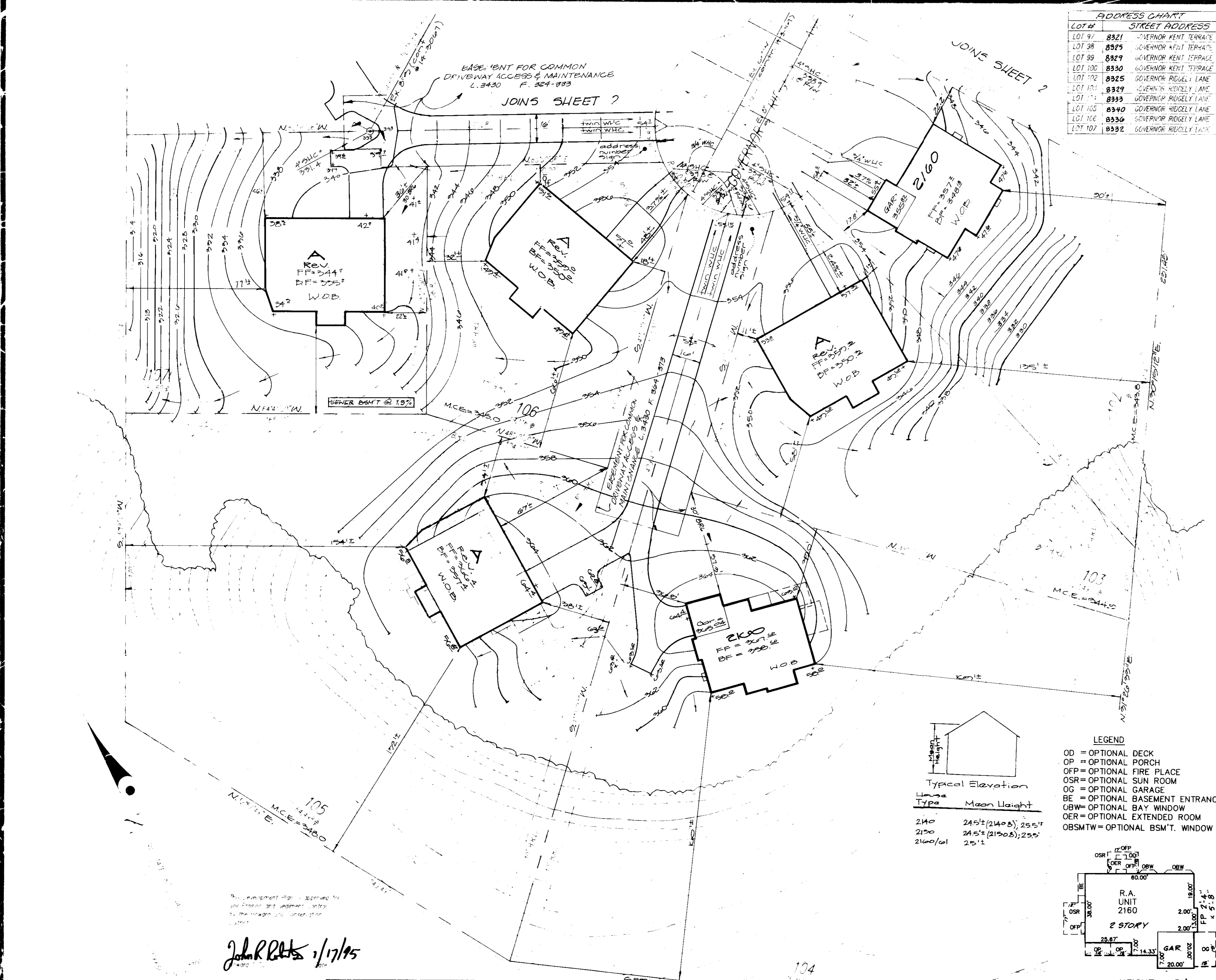
DATE Oct 1994

TAX MAP NO 1B425

SHEET 2 of 7

ADDRESS CHART

LOT #	STREET ADDRESS
LOT 97	8321 GOVERNOR KENT TERRACE
LOT 98	8325 GOVERNOR KENT TERRACE
LOT 99	8327 GOVERNOR KENT TERRACE
LOT 100	8330 GOVERNOR KENT TERRACE
LOT 101	8325 GOVERNOR RIDGELY LANE
LOT 102	8329 GOVERNOR RIDGELY LANE
LOT 103	8333 GOVERNOR RIDGELY LANE
LOT 104	8340 GOVERNOR RIDGELY LANE
LOT 105	8336 GOVERNOR RIDGELY LANE
LOT 106	8332 GOVERNOR RIDGELY LANE
LOT 107	8332 GOVERNOR RIDGELY LANE



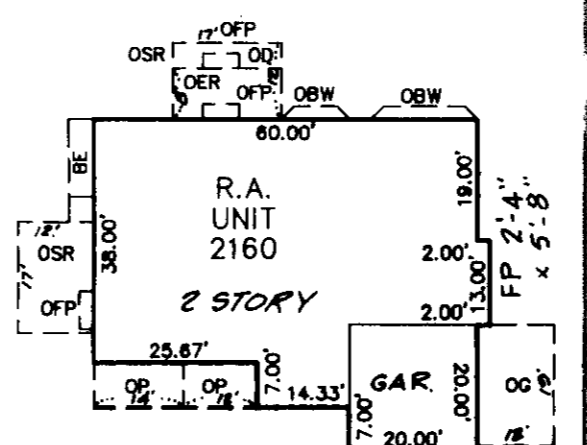
Subgrade approved by engineer
Typical Wall Profile
Multi-Tier

Note: Drain system is suitable for well sites where ground water seepage does not exist. A geotechnical engineer shall evaluate all wall sites for ground water conditions and provide alternative wall drain details as required.

Typical Elevation

Line	Type	Mean Height
2140		245'± (2140.5); 255'
2150		245'± (2150.5); 255'
2160/21		251'

- LEGEND**
- OD = OPTIONAL DECK
 - OP = OPTIONAL PORCH
 - OF = OPTIONAL FIRE PLACE
 - OSR = OPTIONAL SUN ROOM
 - OG = OPTIONAL GARAGE
 - BE = OPTIONAL BASEMENT ENTRANCE
 - OBW = OPTIONAL BAY WINDOW
 - OER = OPTIONAL EXTENDED ROOM
 - OBSMTW = OPTIONAL BSM'T. WINDOW



HEIGHT = 31'
3434 S.F. LIV. AREA

John R. Blatz 1/17/95

Patricia Engle 1/17/95

APPROVED: *Joseph Blatz* 2/24/95
Cina Swamy 2/23/95

APPROVED: *James J. Lee* 1/19/95
Robert E. Gannon 1/10/95

- Legend**
- Ex Contour
 - Prop Contour
 - Limit of Disturbance (LOD)
 - Earth Dike
 - Phone Con. Entrance
 - Street Light (from F&P)
 - Ex Trailing
 - Prop Trail no/Trails to remain
 - Tree Protection Fence (TPF)
 - curb Inlet Protection (CIP)
 - Silt Fence

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
39-9 NATIONAL DRIVE, SUITE 250, BURTONSVILLE, OFFICE PARK, BURTONSVILLE, MD 20866

DATE	REVISION	BY	APPR
8-22-97	SIT'D 2160 ON LOT 100	HKJ	
3-27-97	REV. LOT 102-ADDED HOUSE TYPE, REV. GRADING, REMOVE RET. WALL TO MATCH EX. COND.	HKJ	
2-24-97	Rev. Grading lot 104 & added house type to respect field conditions	KLP	
8-13-96	REV. GRADING LOT 104	HKJ	
5-24-96	Grading Rev. Lot 103	KLP	

BUILDER/CONTRACT PURCHASER:
RICHMOND AMERICAN HOMES
3701 PENDER DR #200
FAIRFAX, VA 22030
(703) 352-0800

DEVELOPER/OWNER:
GREENBAUM & ROSE
ASSOC., INC
1820 REISTER TOWN RD #40
BALTIMORE, MD 21204
(410) 484-8400

Site Development Plan
Governors Run
Sections one & two
lots 95-70 (sec. 1);
90-93 & 71-122 (sec. 2)
2nd Election District
Howard County, Md

DATE	SCALE	CONV	CLW FILE NO
Oct. 94	1"=30'	R-20	94-056

Note: Lots on which a proposed house & trap are within 20' of each other, will be required to have the construction sequenced to allow the trap to be backfilled prior to house construction. Affected Lots are 99, 107, & 113.

EXIST. SEDIMENT TRAP NO. 6
Stone Sediment Trap

Drainage Area = 2.1 Ac. (Pre-Development) 7.6 Ac. (Post-Development)

Storage Required = 7.6 (1800) = 13680 cu. ft.

Cleanout Elevation = 211.0 Feet

Outlet Elevation = 214.5

Bottom Elevation = 208.5

Side Slopes = 2:1

Surface Area @ Elevation 213.5 (*L.O.S.) = 4042 sq. ft.

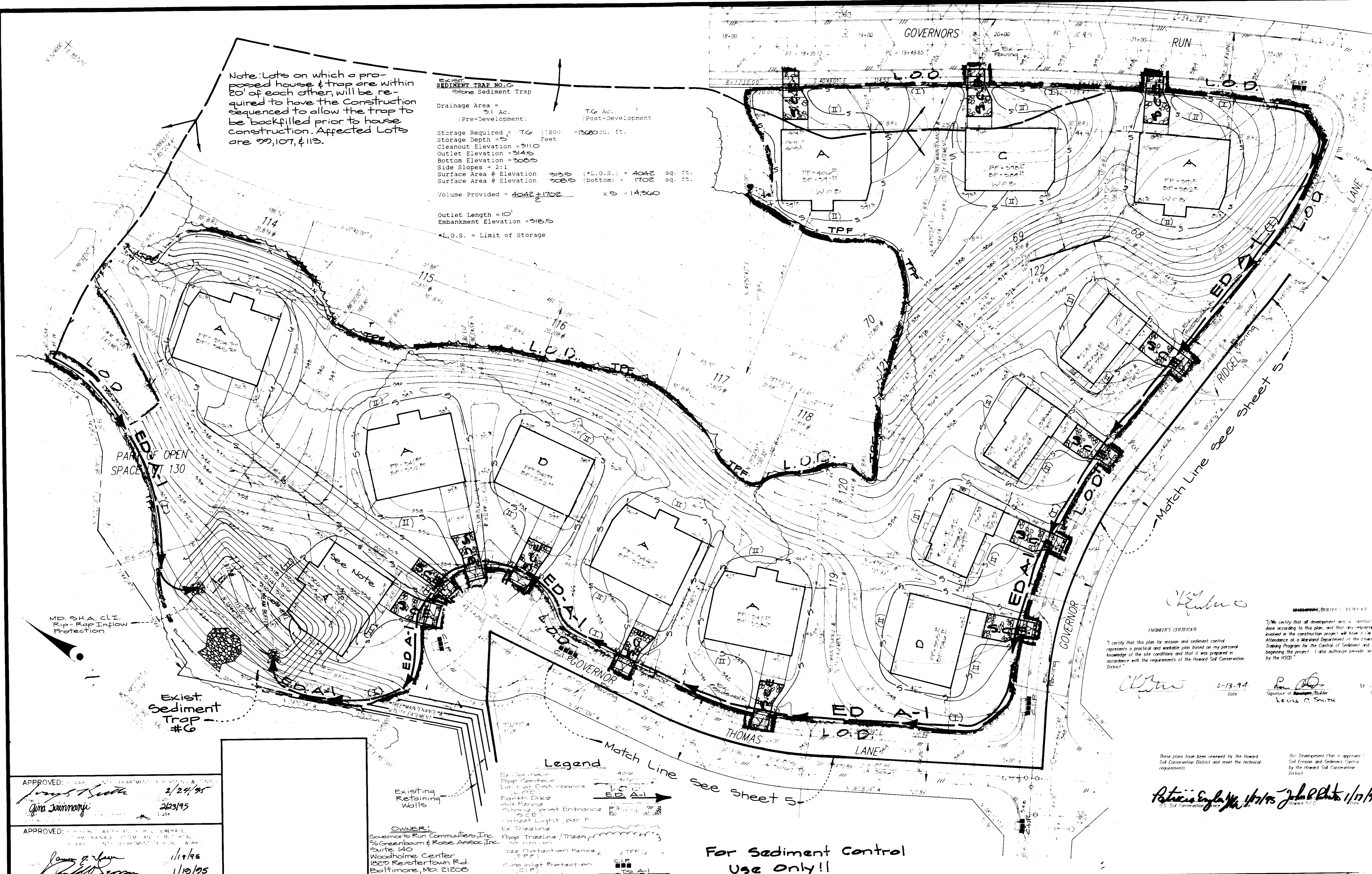
Surface Area @ Elevation 208.5 (bottom) = 1702 sq. ft.

Volume Provided = $\frac{4042 + 1702}{2} \times 5 = 14360$

Outlet Length = 10'

Embankment Elevation = 213.5

*L.O.S. = Limit of Storage



ENGINEER'S CERTIFICATE

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 Soil Conservation District.

Patricia Engle
Date: 6-13-94
Signature of Engineer/Builder
Lewis C. Smith

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.

This Development Plan is approved by the Howard Soil Conservation District.

Patricia Engle 6/13/94
John R. White 6/17/94

APPROVED: *James R. White* 2/24/95
Quia J. Jaramany 2/23/95

APPROVED: *James R. White* 1/19/95
Quia J. Jaramany 1/19/95

Legend

- Ex. Contour
- Prop. Contour
- Limit of Disturbance
- Earth Dike
- Stormwater Entrances
- Street Light, per P
- Ex. Trailline
- Prop. Trailline / Traze
- Trap Protection Fence
- Curb and Gutter Protection
- Temporary Swale

OWNER:
Governor's Run Communities, Inc.
% Greenbaum & Rose Assoc., Inc.
Suite 140
Woodholme Center
1829 Reisterstown Rd.
Baltimore, Md. 21208

For Sediment Control Use Only!!

GLW GUTSCHICK LITTLE & WEBER, P.A.
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
14 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE MD 20866

DATE	REVISION	BY	APPR.

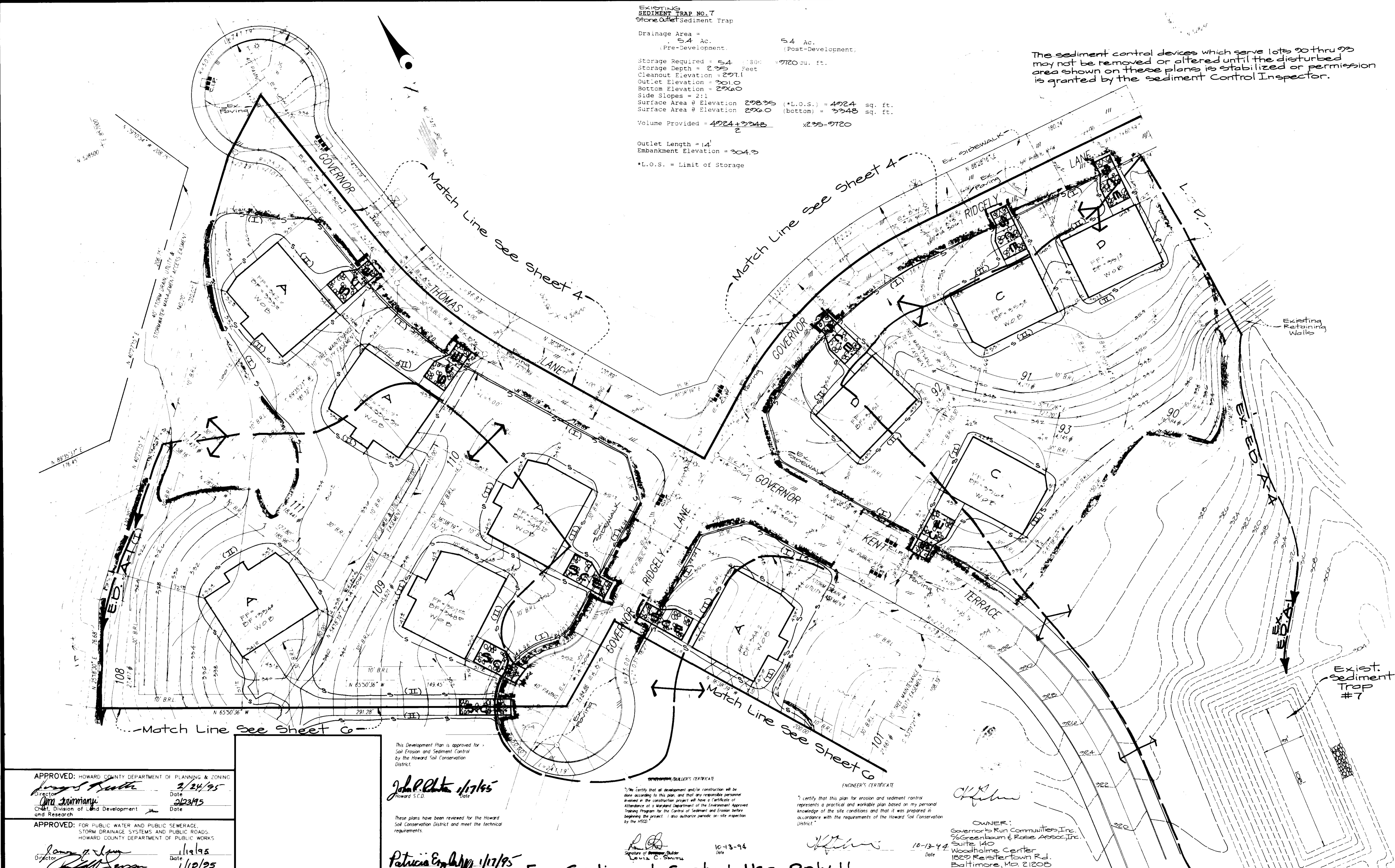
BUILDER/CONTRACT PURCHASER
PREPARED FOR:
Richmond American Homes
3101 Rander Drive
Suite 200
Fairfax, VA 22030
703.292.0800

Sediment Control Plan			
Governor's Run			
Sections One & Two			
Lots 114-122 (Sec 1), 119-122 (Sec 2)			
2nd Election District			
Howard County, Md.			
DES MJT	SCALE 1" = 30'	PLAN R-20	SECTION 94-080
DRN MCF	DATE Oct. 94	TAX MAP NO. 18425	SHEET 4 of 7
CHK. CKG			

**EXISTING
SEDIMENT TRAP NO. 7**
Stone Outlet Sediment Trap

Drainage Area = 5.4 Ac. (Pre-Development) 5.4 Ac. (Post-Development)
 Storage Required = 54 (180) = 9720 cu. ft.
 Storage Depth = 2.25 Feet
 Cleanout Elevation = 297.1
 Outlet Elevation = 301.0
 Bottom Elevation = 296.0
 Side Slopes = 2:1
 Surface Area @ Elevation 298.35 (*L.O.S.) = 4924 sq. ft.
 Surface Area @ Elevation 296.0 (bottom) = 3348 sq. ft.
 Volume Provided = $\frac{4924 + 3348}{2} \times 2.25 = 9720$
 Outlet Length = 14'
 Embankment Elevation = 304.3
 *L.O.S. = Limit of Storage

The sediment control devices which serve lots 90 thru 93 may not be removed or altered until the disturbed area shown on these plans is stabilized or permission is granted by the sediment control Inspector.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 Director: *Angus Kuttler* Date: 2/24/95
 Chief: *Jim Stumm* Date: 2/23/95
 Chief, Division of Land Development and Research

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *James P. Long* Date: 1/19/95
 Chief: *Patricia Egan* Date: 1/10/95
 Chief, Bureau of Engineering

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.
John P. Egan 1/17/95
 Howard S.C.D.
 These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements.
Patricia Egan 1/17/95
 U.S. Soil Conservation Service

BUILDER'S CERTIFICATE
 I certify that all development and/or construction will be done according to this plan, and that any responsible personnel employed in the construction project will have a Certificate of Attendance at a Maryland Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSD.
Louis C. Smith 10-13-94
 Signature of Builder
 Date

ENGINEER'S CERTIFICATE
 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 Soil Conservation District.
John P. Egan 10-13-94
 Date

GLW GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE SUITE 250 BURTONSVILLE OFFICE PARK BURTONSVILLE, MD 20866
 TELEPHONE (301)421-4024 NO VA (301)989-2524 BAL TO (301)880-1820 FAX (301)421-4188

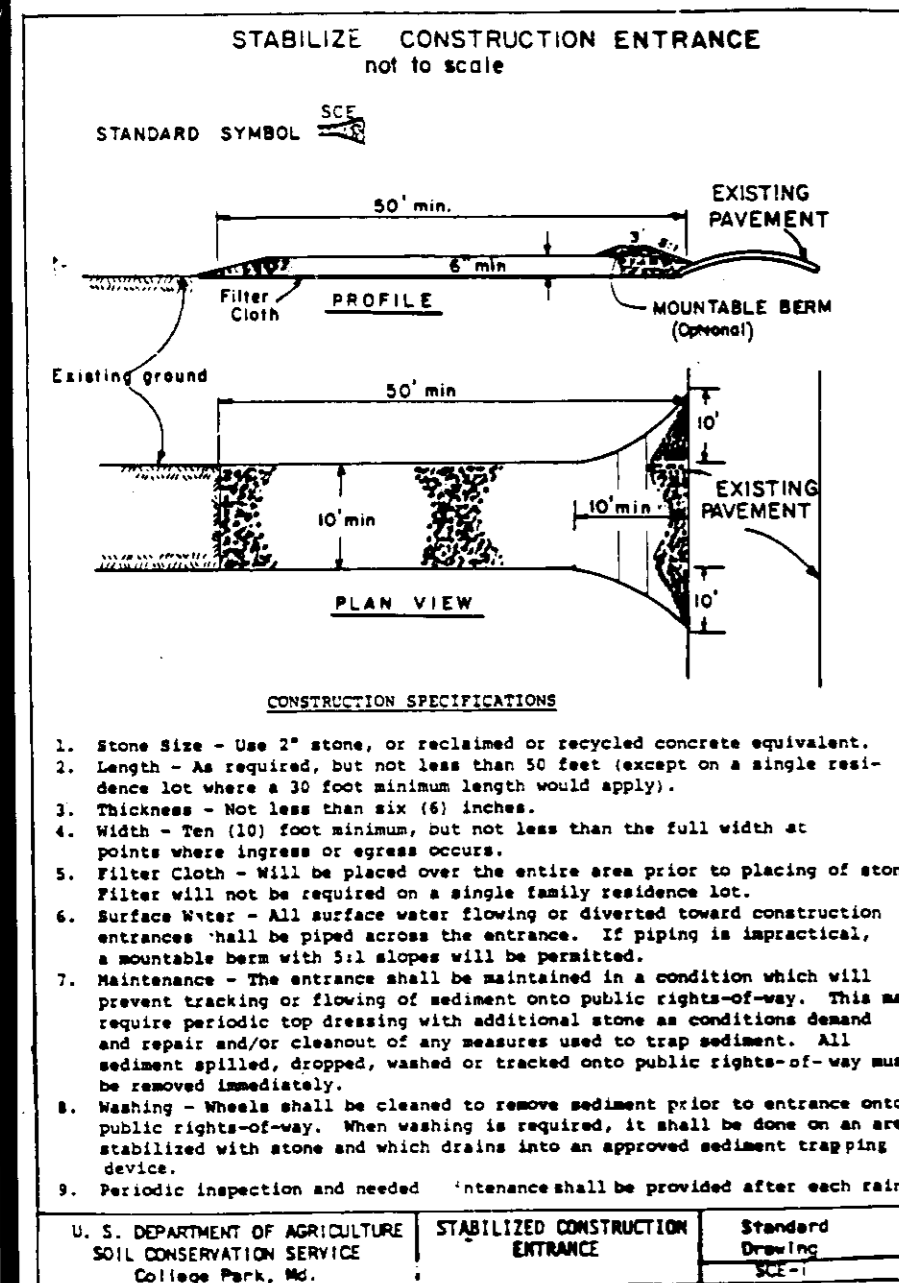
DATE	REVISION	BY	APP'R.

BUILDER/CONTRACT PURCHASER
 PREPARED FOR:
 Richmond American Homes
 3701 Parlier Drive
 Suite 200
 Fairfax, VA 22030
 (703) 352-0800

Sediment Control Plan
Governors Run
 sections one & two
 lots 98-70 (sec 1);
 70-93 & 91-122 (sec 2)
 2nd Election District
 Howard County, Md.

DES.	SCALE	ZONING	GLW FILE NO.
MJT	1"=30'	R-20	94080
DRN.	DATE	TAX MAP NO.	SHEET
MCF	Oct. '94	18425	5 of 7
CHK:			
CKG			

For Sediment Control Use Only !!

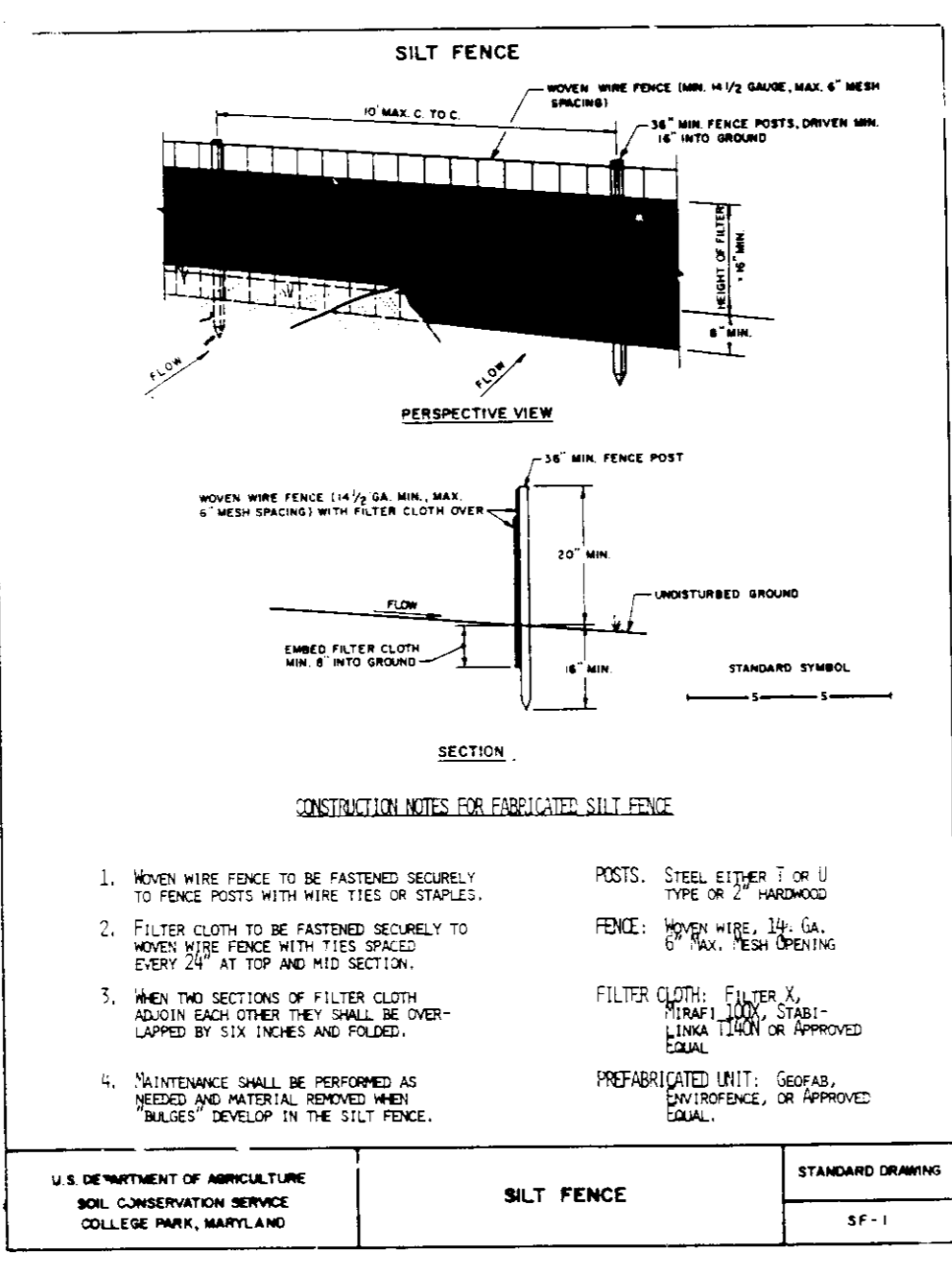


STABILIZED CONSTRUCTION ENTRANCE
not to scale

CONSTRUCTION SPECIFICATIONS

- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
- Length - As required, but not less than 50 feet (except on a single residential 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 fastened securely to the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- 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 cleanup 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, MARYLAND



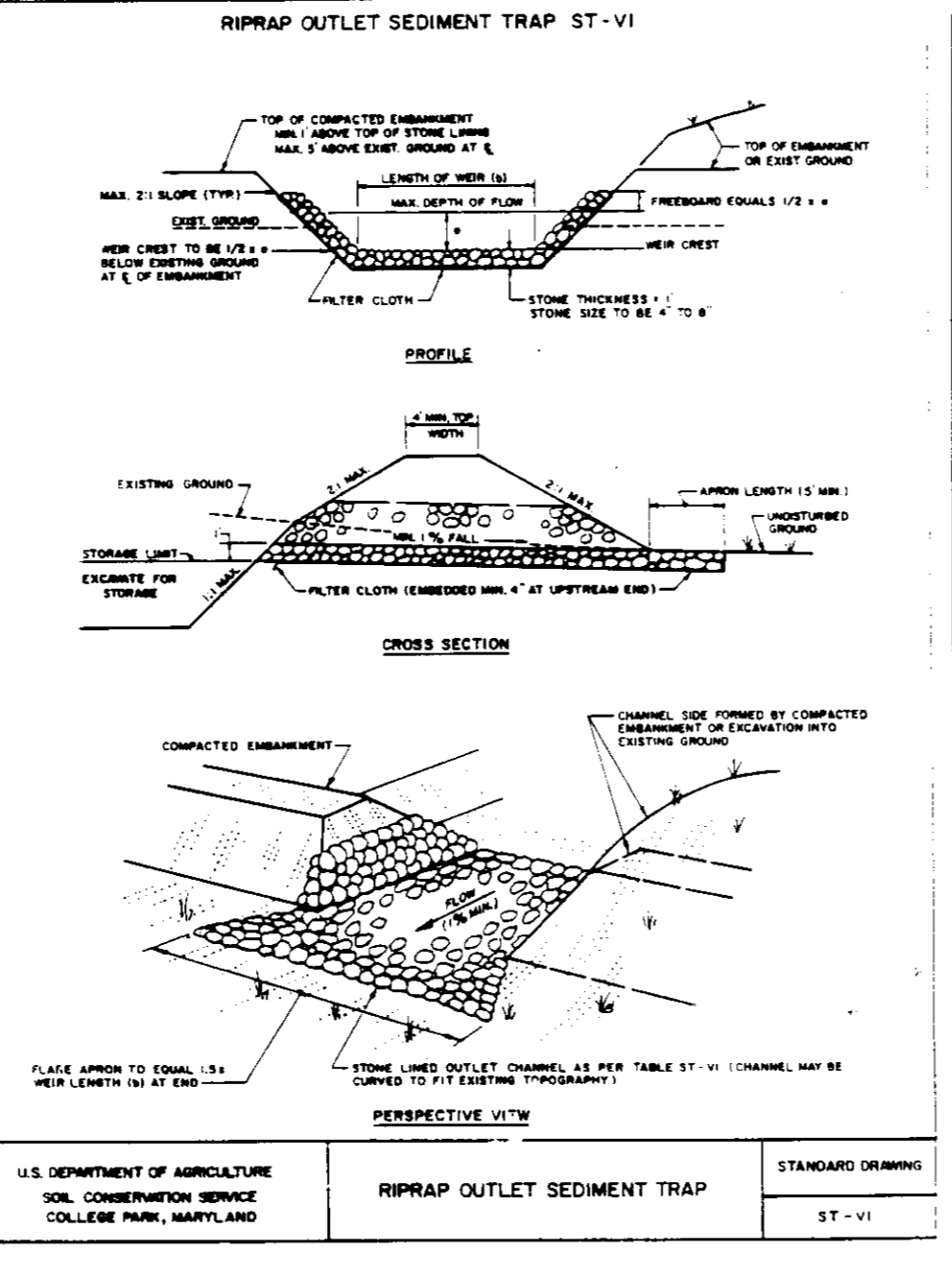
SILT FENCE

CONSTRUCTION NOTES FOR IMPROVED SILT FENCE

- REMOVE WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOODEN WIRE FENCE WITH THE SPECIFIED CLOTH AT TOP AND SIDES.
- WHEN TWO SECTIONS OF FILTER CLOTH MEET EACH OTHER THEY SHALL BE OVERLAPPED BY 100 PAGES AND STAPLED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL PROVIDED WHEN "MUDS" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE 2" DIA. UNCOATED
FENCE: WOODEN WIRE 12 GA. 12" DIA. UNCOATED
FILTER CLOTH: FILTER 20 PAGES PER 100' LENGTH
STONE: 2" DIA. UNCOATED
PREPARED UNIT: GEOTEX, DOWNSIDE, OR APPROVED EQUAL

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
COLLEGE PARK, MARYLAND



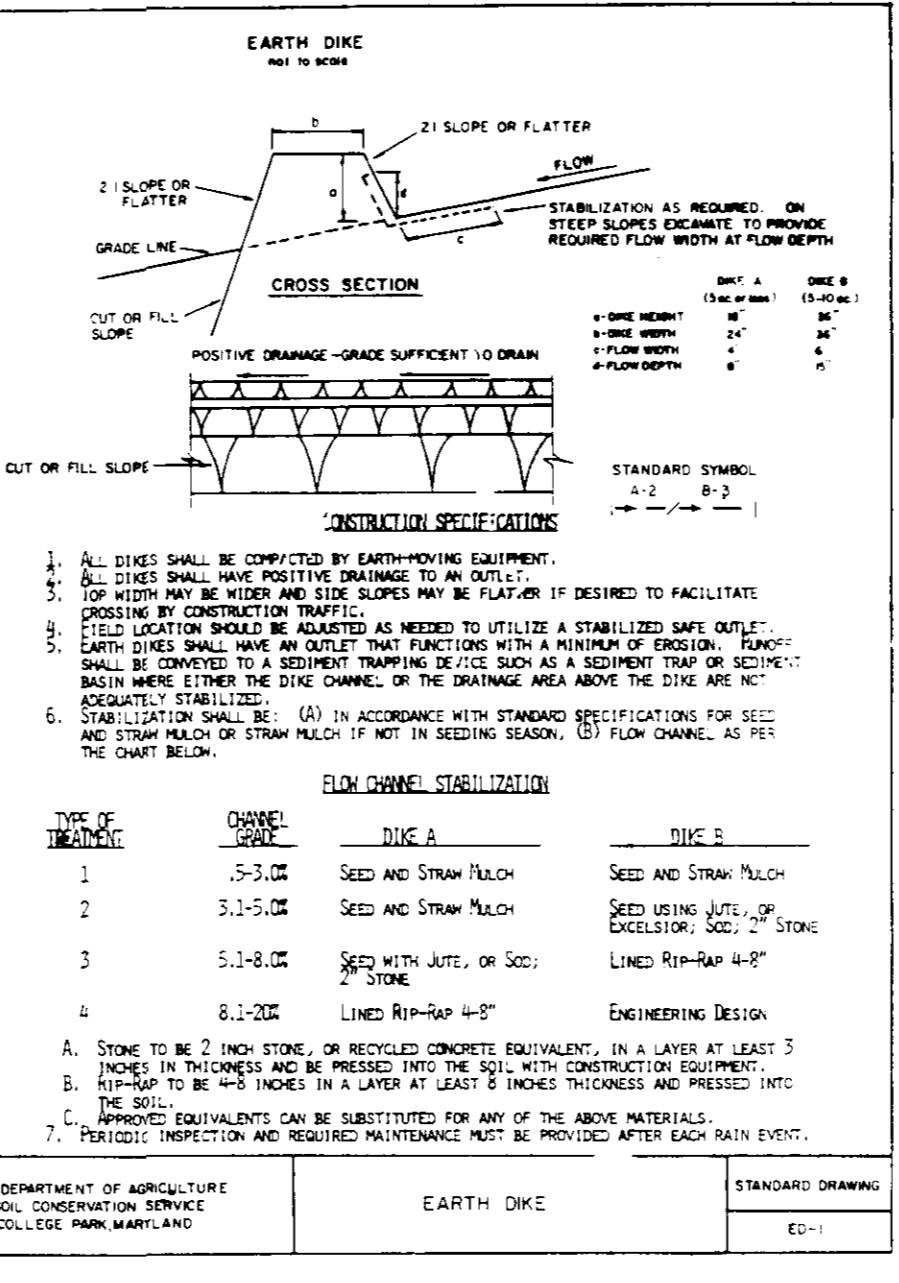
RIPRAP OUTLET SEDIMENT TRAP ST-VI

CONSTRUCTION SPECIFICATIONS

- ALL DISES SHALL BE CONSTRUCTED BY EARTH-MOVING EQUIPMENT.
- ALL DISES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SLOPE MAY BE FLATTER IF DESIRED TO FACILITATE TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- SAFETY DISES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. TRAP SHALL BE COVERED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR BENCH. EACH DISE SHALL HAVE THE DISE CHANNEL, ON THE DRAINING AREA ABOVE THE DISE AND NOT NEARLY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRIP MULCH OR STRIP MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL, AS PER THE OWNER'S DESIGN.

TYPE OF CHANNEL: DRAINAGE
TYPE OF DISE: DISE A, DISE B, DISE C
DISE A: 2" SLOPE OR FLATTER, 5'-0" TO 5'-6" WIDE, SEED AND STRIP MULCH
DISE B: 2" SLOPE OR FLATTER, 5'-0" TO 5'-6" WIDE, SEED USING LATE OF EXCELLENCE, 50% AT STONE
DISE C: 2" SLOPE OR FLATTER, 5'-0" TO 5'-6" WIDE, SEED WITH LATE OF EXCELLENCE, 50% AT STONE
DISE D: 2" SLOPE OR FLATTER, 5'-0" TO 5'-6" WIDE, LINED RIP-RAP 4" STONE, ENGINEERING DESIGN

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EARTH DIKE

CONSTRUCTION SPECIFICATIONS

- ALL DISES SHALL BE CONSTRUCTED BY EARTH-MOVING EQUIPMENT.
- ALL DISES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
- TOP WIDTH MAY BE WIDER AND SLOPE MAY BE FLATTER IF DESIRED TO FACILITATE TRAFFIC.
- FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
- SAFETY DISES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. TRAP SHALL BE COVERED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR BENCH. EACH DISE SHALL HAVE THE DISE CHANNEL, ON THE DRAINING AREA ABOVE THE DISE AND NOT NEARLY STABILIZED.
- STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRIP MULCH OR STRIP MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL, AS PER THE OWNER'S DESIGN.

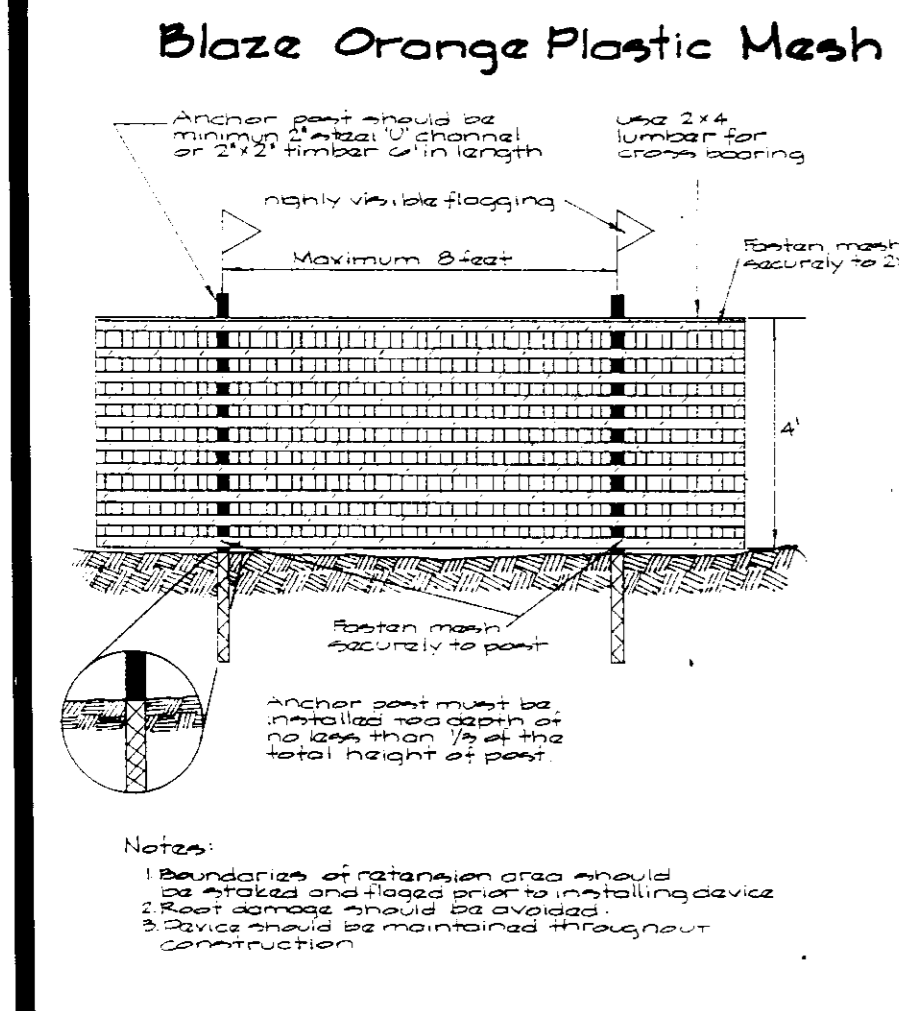
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SEDIMENT CONTROL NOTES

- 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. (301) 992-2437
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes and 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 seedings (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: 18.07 Acres
Area Disturbed: 13.20 Acres
Area to be roofed or paved: 3.00 Acres
Area to be vegetatively stabilized: 10.20 Acres
Total Cut: 21,500 Cu. Yds.
Total Fill: 21,500 Cu. Yds.
Off-site 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 control must be provided, if deemed necessary by the Howard County DPW 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 area 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 (unless 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 square feet) 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 square feet) 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 unrattled 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.

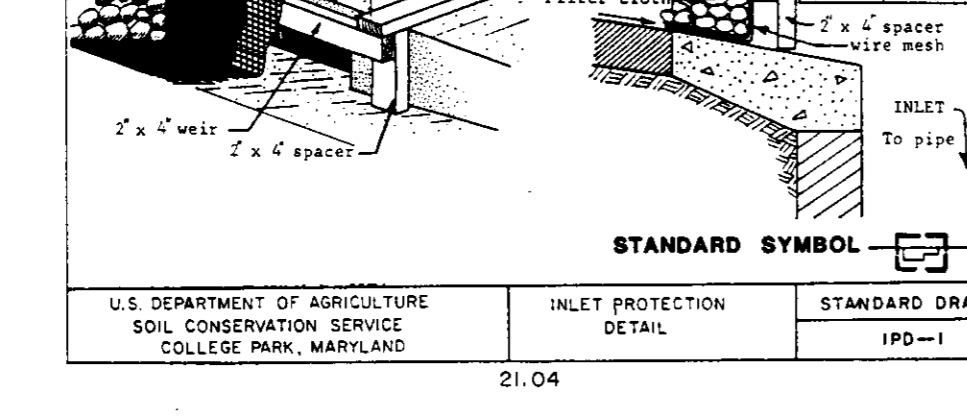


Blaze Orange Plastic Mesh

CONSTRUCTION SPECIFICATIONS

- ALL TEMPORARY SNALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO INLET.
- INVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVERTED TO A SEDIMENT TRAPPING DEVICE.
- INVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TRAILS, DRIVES, DRIVEWAYS, AND OTHER UNDESIRABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SNAIL.
- THE SNAIL SHALL BE ENCASED OR SHARDED TO LINE, GRADE, AND CROSS SECTION AS NECESSARY TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PRODUCTIONS AND OTHER UNDESIRABLE MATERIAL WHICH WOULD INTERFERE WITH THE PROPER FUNCTIONING OF THE SNAIL.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL SNALES REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SNALE.
- STABILIZATION SHALL BE AS PER THE OWNER'S DESIGN.

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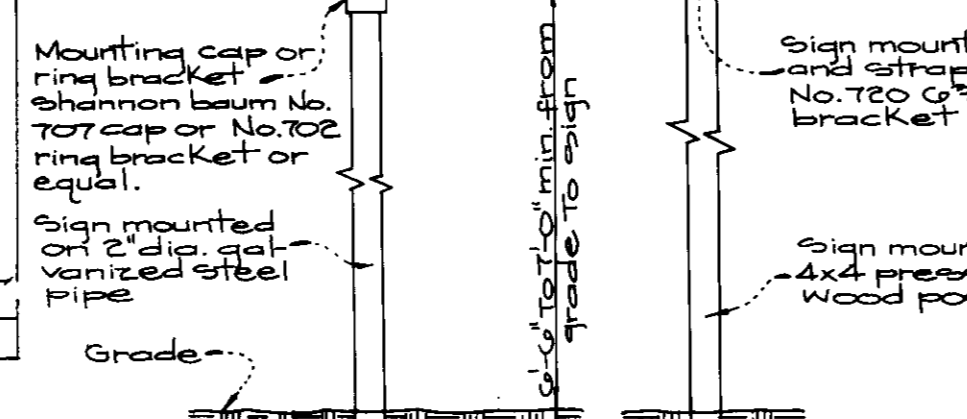


CURB INLET PROTECTION

CONSTRUCTION SPECIFICATIONS

- Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2" x 4" weir (bearing 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 curb 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.

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Sign Design and Installation Detail
No Scale

1) The sign size shall be 12"x18".
2) The sign material shall be .060 gauge thickness anodized aluminum.
3) The sign shall have a green background with 3" high white, reflective numbers and arrow white reflective border.

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ENGINEER'S CERTIFICATE

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 Soil Conservation District.

Signature: [Signature] Date: 10-13-94

SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Install the stabilized construction entrances for Lots 99/100, 113, 97 & 106.
- Restore existing sediment trap 7 to original lines and grade. Enlarge existing sediment traps 5 & 6 as indicated on plans. Construct associated earth dikes (I).
- Install the silt fence (I) along right-of-way and as indicated on plans.
- Grade site.
- Stabilize area draining to earth dike (I), and sediment traps.
- When areas have been stabilized and permission has been granted by the Sediment Control Inspector, remove sediment controls and stabilize remaining areas.
- Install silt fence (II) and associated stabilized construction entrances as Lots are developed.
- When areas draining to sediment controls have been stabilized, and permission has been granted by the Sediment Control Inspector, remove silt fence and stabilized construction entrance(s) and stabilize remaining areas.

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 (unless previously loosened).
- Soil Amendments: Apply 600 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 unrattled 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.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director: [Signature] Date: 3/24/95
 Director: [Signature] Date: 2/23/95
 Director: [Signature] Date: 1/19/95
 Director: [Signature] Date: 1/19/95

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

Director: [Signature] Date: 1/19/95
 Director: [Signature] Date: 1/19/95

OWNER'S CERTIFICATE

I certify that all development and/or construction will be done according to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the HSCD.

Signature: [Signature] Date: 10-13-94

GUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866
 TEL: (301) 421-4024 MO. VA.: (301) 989-2524 BALT.: (410) 880-1820 FAX: (301) 421-4186

DES.	DRN.	CHK.	DATE	REVISION	BY	APPR.

PREPARED FOR:
 (Builder/Contract Purchaser)
 Richmond American Homes
 2701 Pender Drive, Suite 200
 Fairfax Virginia 22030
 (703) 792-0800

Notes & Details

Governor's Run
 Section One & Two
 Lots 98-100 (sect. 1)
 Lots 90-93 & 97-122 (sect. 2)
 Howard County, Maryland

SCALE: ZONING: R-20 G.I. W. FILE NO: 94-080

DATE: October 1994 TAX MAP NO: 18 & 25 SHEET: 7 of 7