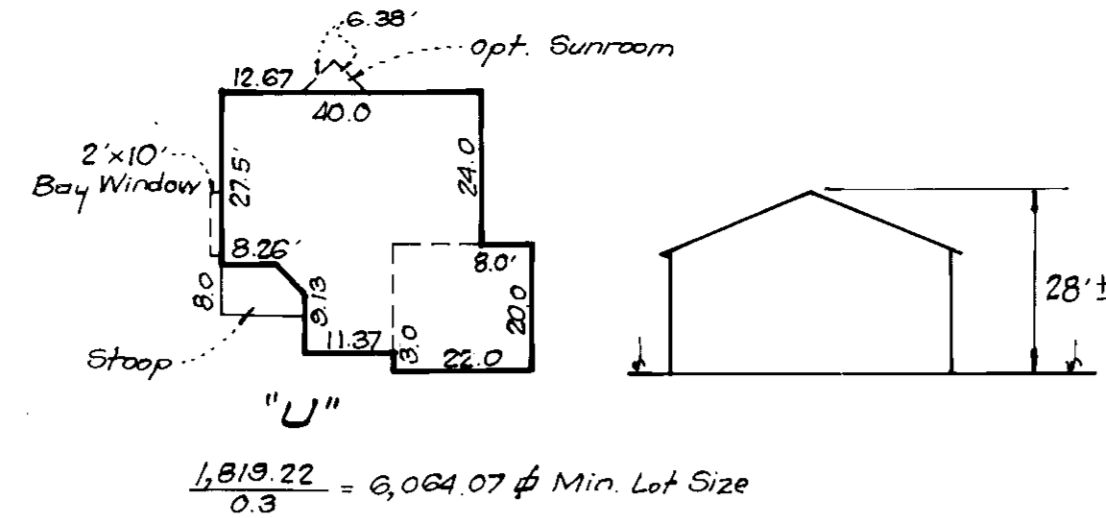


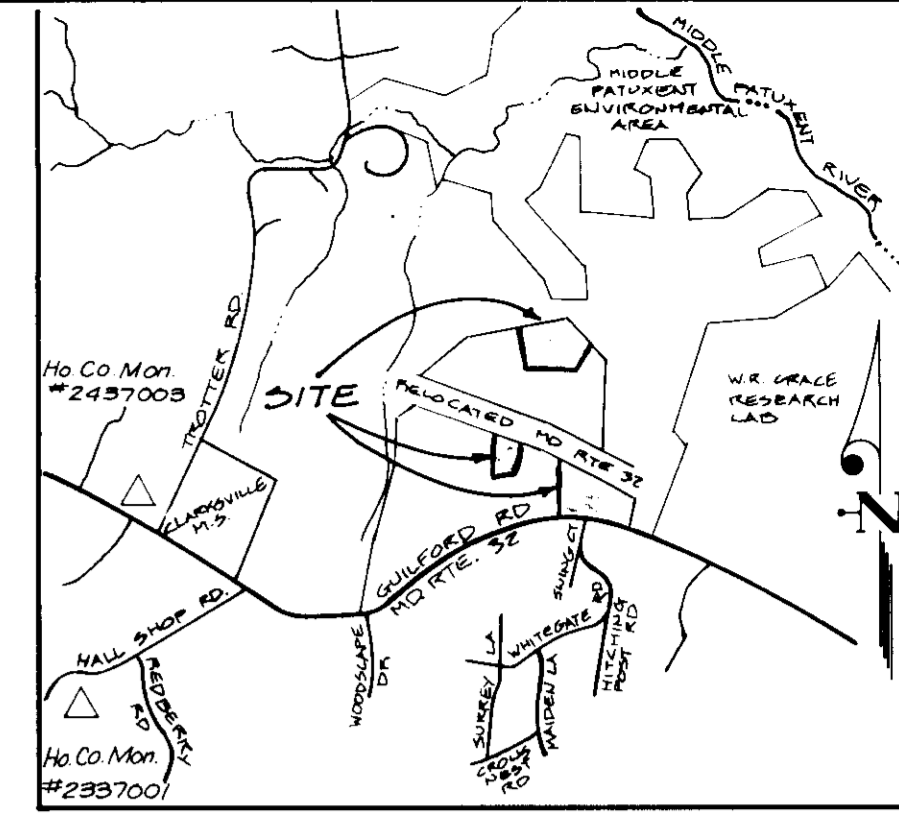
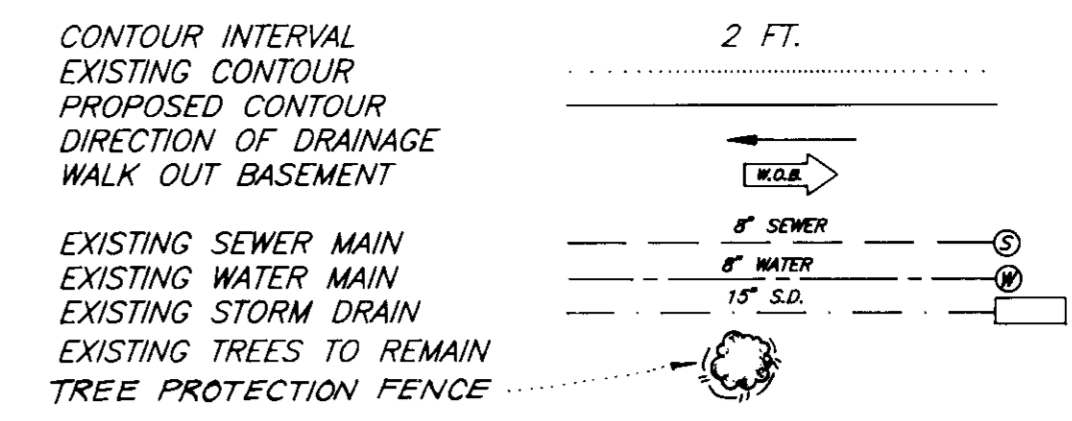
Nº	REVISIONS	Date
1	Rev lot line lot 223, Rev. hse. and grd. lots 223 & 225, Add hse. type	3-24-94
2	Rev. hse. and grade lot 236	6-20-94
3	Rev. hse. & grd. lot 128, Add hse. typical	4-6-95



ADDRESS CHART		
LOT NUMBER	STREET ADDRESS	
128	6420	EMPTY SONG ROAD
129	6424	EMPTY SONG ROAD
234	6433	EMPTY SONG ROAD
235	6429	EMPTY SONG ROAD
236	6425	EMPTY SONG ROAD
223	6500	TENDER MIST MEWS
224	6504	TENDER MIST MEWS

ADDRESS CHART		
LOT NUMBER	STREET ADDRESS	
225	6508	TENDER MIST MEWS
226	6512	TENDER MIST MEWS
227	6516	TENDER MIST MEWS
228	6520	TENDER MIST MEWS
229	6517	TENDER MIST MEWS
230	6513	TENDER MIST MEWS
231	6509	TENDER MIST MEWS
232	6505	TENDER MIST MEWS
233	6501	TENDER MIST MEWS

LEGEND



GENERAL NOTES:

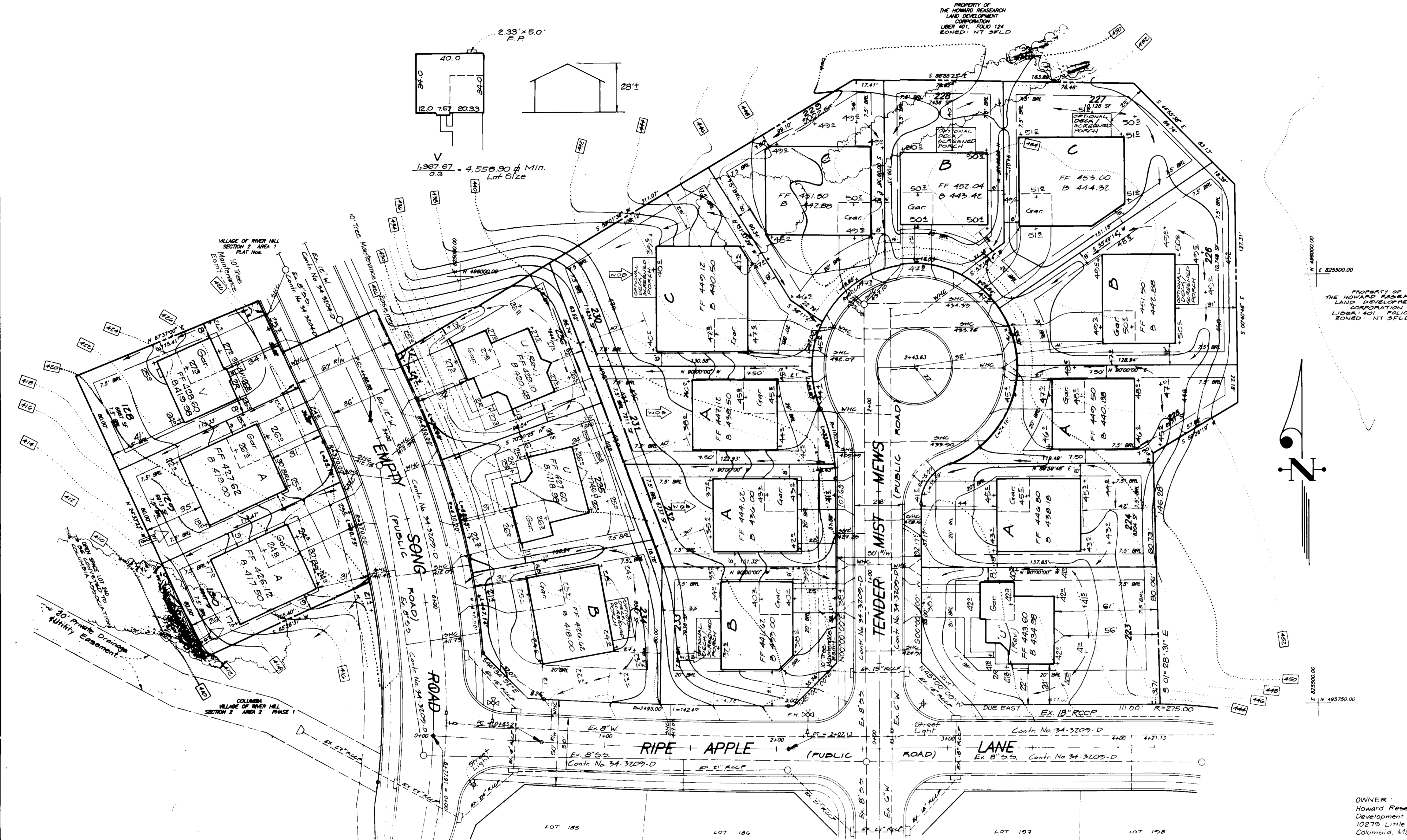
- Subject property is zoned: NT SFLD 1/2 STD per 8-2-85 Comprehensive Zoning Plan, FDP Phase 200 Part II
- The total area included in this submission is: 4.94 Ac.
- The total number of lots included in this submission are: 27
- Improvement to property: Single family detached
- The maximum lot coverage permitted is: 30%
- Department of Planning and Zoning reference file numbers are: F-93-80, S-91-03, P-92-15, F-93-81
- Utilities shown as existing are taken from approved water and sewer plan Contract # 34-3209-D, approved road construction plans F-93-80, and actual field survey.
- Any damage to county owned rights-of-way shall be corrected at the developer's expense.
- Storm water management is provided per: F-93-80. Detention for Quality Control, extended detention for Quality Control
- All roadways are public and existing.
- The existing topography was taken from plans by Fisher, Collins and Carter, Inc. Oct. 30, 1992.
- The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System - Howard County Monument Nos.: 2337001 and 2477003
- The contractor shall notify the Department of Public Works/Construction Inspection Division, at (410) 313-1870 at least five (5) working days prior to the start of work.
- The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
- Porches and decks open or enclosed may not project more than three (3) feet into front and rear yard setback areas as stated in FDP Phase 200, Item #6.
- For driveway entrance details refer to Howard County Design Manual Volume IV Std. Details R-6.01, R-6.03 & R-6.05.

SPECIAL NOTES:

This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Road Construction Plans F-93-80 & 81 and/or approved Water and Sewer Plans Contract No. 34-3209-D. Sewer house connection invert elevations are taken to the property line.

SHEET INDEX

Sheets 1 & 2	Site Development Plan
Sheets 3, 4 & 5	Sediment & Erosion Control Plan



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

COUNTY HEALTH OFFICER: [Signature] DATE: 10/21/93

APPROVED HOWARD COUNTY DEPT OF PLANNING & ZONING

DIRECTOR: [Signature] DATE: 11/16/93

CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH: [Signature] DATE: 11/16/93

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

DIRECTOR: [Signature] DATE: 10/14/93

CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 10/14/93



CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

700 MINTHURST WAY • COLUMBIA, MD 21046 • TEL: (410) 279-1000 • FAX: (410) 279-1001

DESIGNED	VLP	SITE DEVELOPMENT PLAN	SCALE	1"=30'
DRAWN	MCR	LOTS 80, 87-95, 128-130 & 223-236	DRAWING	1085
CHECKED	JME	COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 2 PHASES 1 & 2 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO	92-074
DATE	7/29/93	GODDARD BUILDERS, INC. 5054 GARY HALL DR. #100 GUILFORD, MD 21042	FILE NO	92-074X

Lot No	Gross Area	Pipestem Area	Remaining Area	100 Year Floodplain	25% Slopes	Minimum Lot Size
88	9,311.0	1,433.2	7,877.8			7,871.8

No	REVISIONS	Date
1	Rev. hse. & grd lot 88, Add hse typical	7-7-94
2	Add 1/4 A hse typical	7-26-94
3	Add houses and generic box for lots 87, 88 and 91-96	7-18-94
4	Rev. hse. for Lot 93	10-5-94
5	Rev. hse. for Lot 95 from "D Box" to "1/4 CA"	12-8-94
6	Add Vista house type	7-22-96

2/3 A (No 667x1207 Rear bump out)

$1,542.46 / 0.3 = 5,141.54 \text{ \# Min. Lot Size w/2 car garage}$

$1,363.82 / 0.3 = 4,546.0 \text{ \# Min. Lot Size w/1 car garage}$

2/3 B

$1,572.63 = 5,242.10 \text{ \# Min. Lot Size w/2 car garage}$

$1,393.92 = 4,646.0 \text{ \# Min. Lot Size w/1 car garage}$

2/3 CA

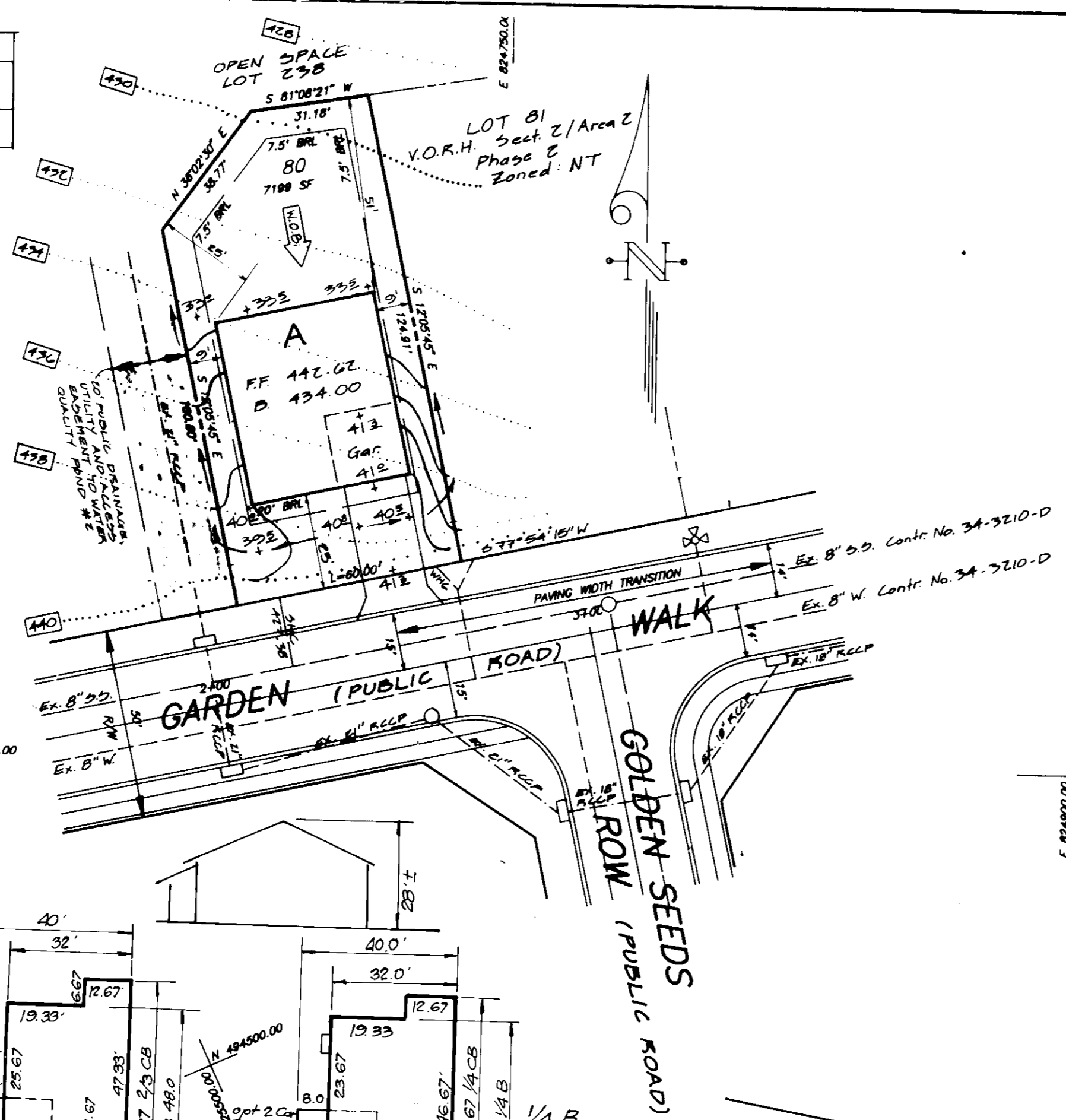
$1,626.97 / 0.3 = 5,423.23 \text{ \# Min. Lot Size w/2 Car Gar}$

$1,448.33 / 0.3 = 4,827.76 \text{ \# Min. Lot Size w/1 car gar}$

1/4 A

$1,501.12 = 5,270.57 \text{ \# Min. Lot Size w/2 car garage}$

$1,402.52 = 4,675.07 \text{ \# Min. Lot Size w/1 car garage}$



TYPICAL HOUSES
SCALE: 1" = 30'

House I: 2424 C = 8082 \# Min. Lot Size w/out options

House L: 2026.00 = 6789.33 \# MIN. LOT SIZE w/out OPT. MSTR. BEDROOM

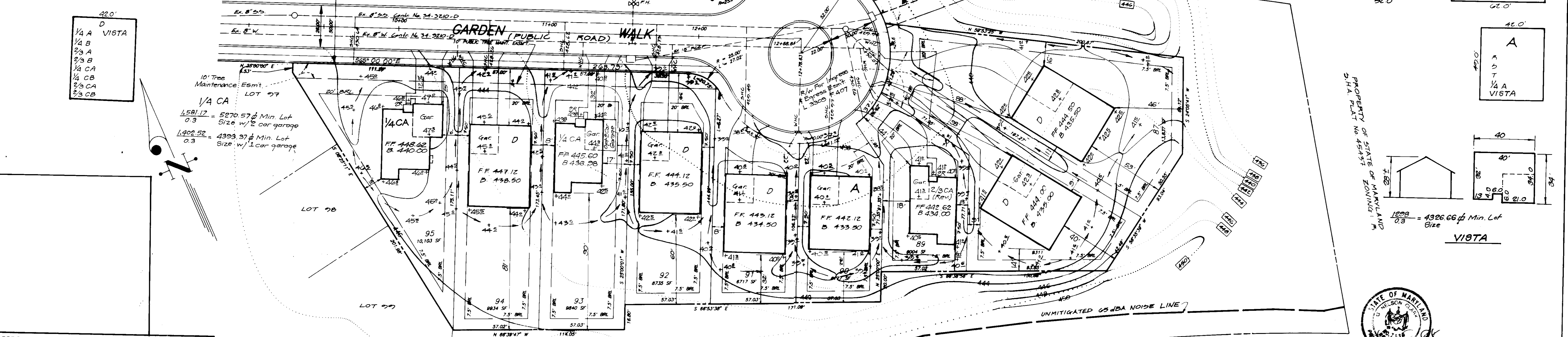
House P: 2524.95 = 8416.5 \# Min Lot Size w/o Deck or porch

House R: 1108.91 = 3695.7 \# MIN. LOT SIZE w/out Opt. porch or deck

House S: 1529.10 = 5097.33 \# MIN. LOT SIZE w/out opt porch or deck

House T: 1766.83 = 5889.43 \# MIN. LOT SIZE w/out Opt porch or deck

LOT NUMBER	STREET ADDRESS
80	7060 GARDEN WALK
87	7001 GARDEN WALK
88	7005 GARDEN WALK
89	7009 GARDEN WALK
90	7013 GARDEN WALK
91	7017 GARDEN WALK
92	7021 GARDEN WALK
93	7025 GARDEN WALK
94	7029 GARDEN WALK
95	7033 GARDEN WALK



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

COUNTY HEALTH OFFICER: [Signature] DATE: 11/1/93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

DIRECTOR: [Signature] DATE: 11/8/93

CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH: [Signature] DATE: 11/8/93

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

DIRECTOR: [Signature] DATE: 10/18/93

CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 10/18/93

OPEN SPACE LOT 138
V.O.R.H. Sect 2/ Area 2
Phase 2
Zoned: NT
to be dedicated to
The Columbia Association

LAND RESERVED TO THE STATE OF MARYLAND FOR THE PURPOSE OF A PUBLIC ROADWAY

GUILFORD ROAD (PUBLIC ROAD)

MARYLAND ROUTE 32

EX. 80' RIGHT-OF-WAY

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINISTREL WAY • COLUMBIA MD 21045 • (301) 481-7500 • BALTO • (301) 621-8100 • WASH

DESIGNED: VLP
DRAWN: MCR
CHECKED: JME
DATE: 10/14/93

SITE DEVELOPMENT PLAN
LOTS 80, 87-95, 128-130 & 223-236
COLUMBIA
VILLAGE OF RIVER HILL
SECTION 2 AREA 2 PHASES 1 & 2
8TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

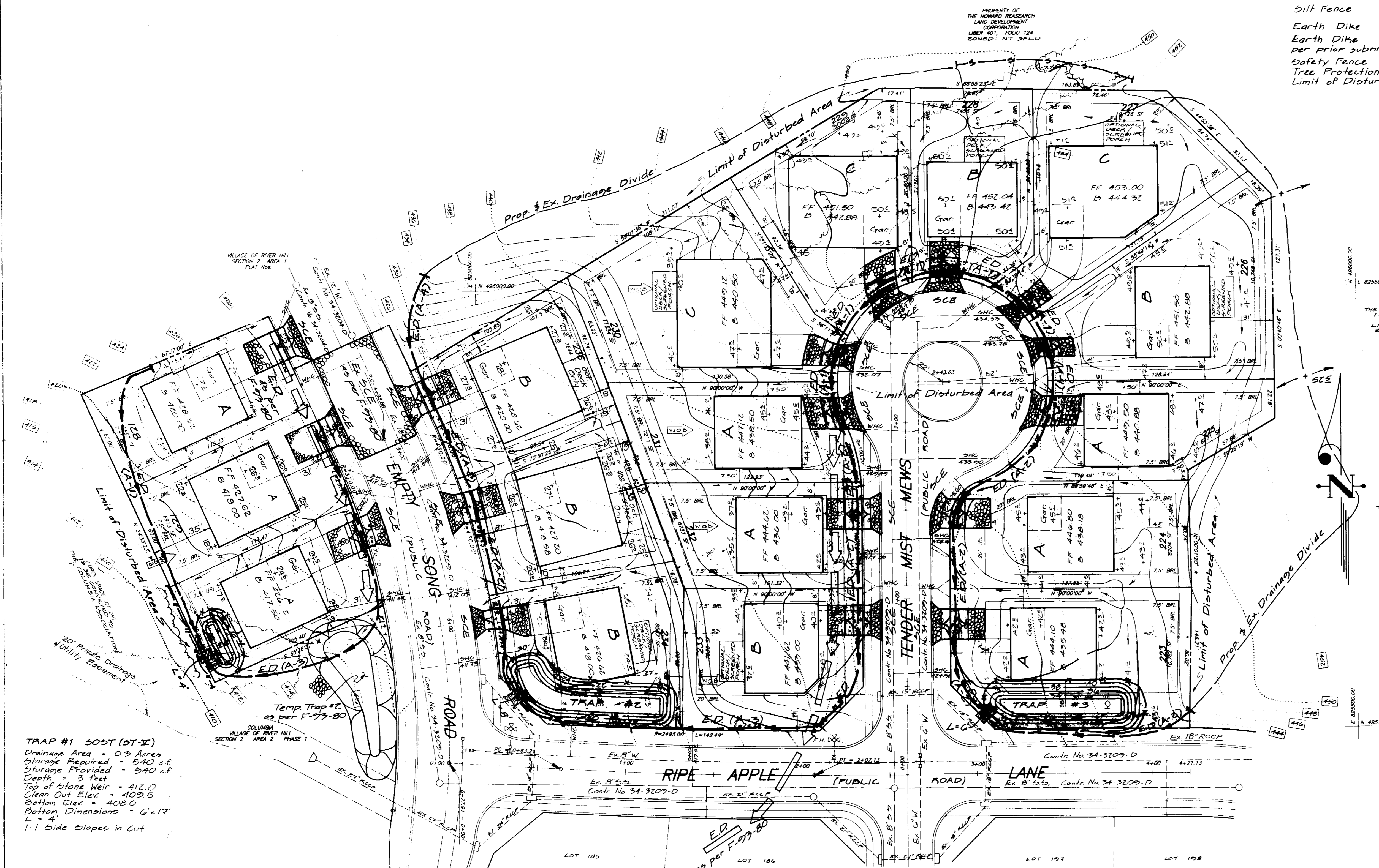
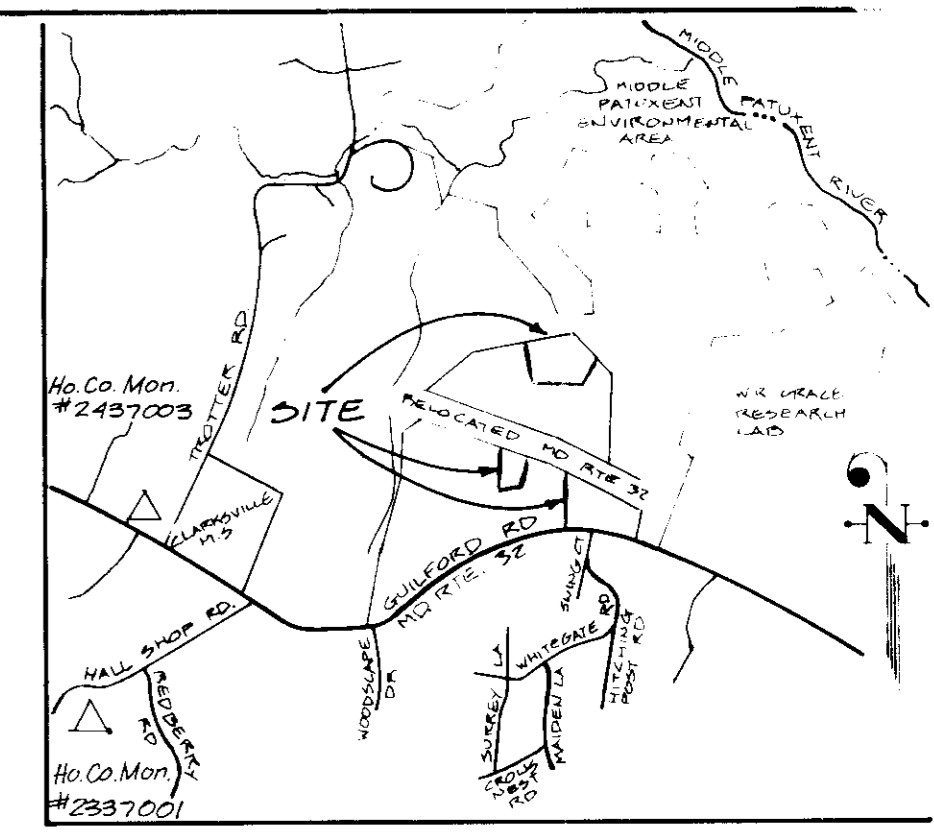
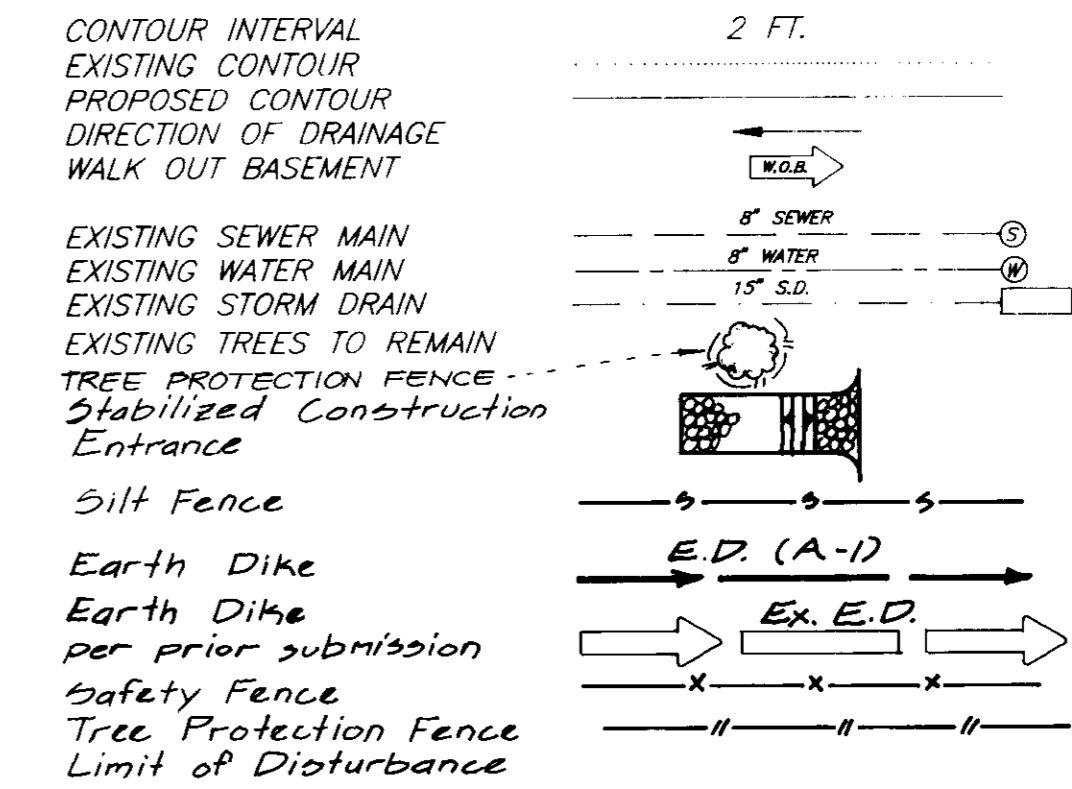
SCALE: 1" = 30'
DRAWING: 2 of 5
JOB NO: 97-074
FILE NO: 97-074X

OWNER: HOWARD RESEARCH & DEVELOPMENT CORP
10275 Little Patuxent Pkwy
Columbia, Maryland 21044

FOR: GOODIER BUILDERS, INC.
5054 DORSEY HALL DR #205
BELLICOTT CITY, MD 21043



LEGEND



TRAP #3 SOST (ST-V)
 Drainage Area = 1.4 Acres
 Storage Required = 2500 c.f.
 Storage Provided = 2500 c.f.
 Depth = 3 feet
 Top of Stone Weir = 437.0
 Clean Out Elev. = 434.5
 Bottom Elev. = 433.0
 Bottom Dimensions = 9' x 6'
 L = 6
 1:1 Side Slopes in Cut

TRAP #1 SOST (ST-V)
 Drainage Area = 0.9 Acres
 Storage Required = 940 c.f.
 Storage Provided = 940 c.f.
 Depth = 3 feet
 Top of Stone Weir = 417.0
 Clean Out Elev. = 409.5
 Bottom Elev. = 408.0
 Bottom Dimensions = 6' x 17'
 L = 4
 1:1 Side Slopes in Cut

TRAP #2 SOST (ST-V)
 Drainage Area = 1.9 Acres
 Storage Required = 3420 c.f.
 Storage Provided = 3432 c.f.
 Depth = 3 feet
 Top of Stone Weir = 421.5
 Clean Out Elev. = 419.0
 Bottom Dimensions = 10' x 85'
 Bottom Elev. = 417.5
 L = 8
 1:1 Side Slopes in Cut

Reviewed for HOWARD S.C.D.
 Name: J. J. [Signature]
 Signature: [Signature]
 Date: 7/22/93
 US Soil Conservation Service

COLUMBIA VILLAGE OF RIVER HILL
 SECT. 2 AREA 2 PHASE 1
 ZONED NT 3FLD 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 sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
 Signature: [Signature] Date: 7/22/93

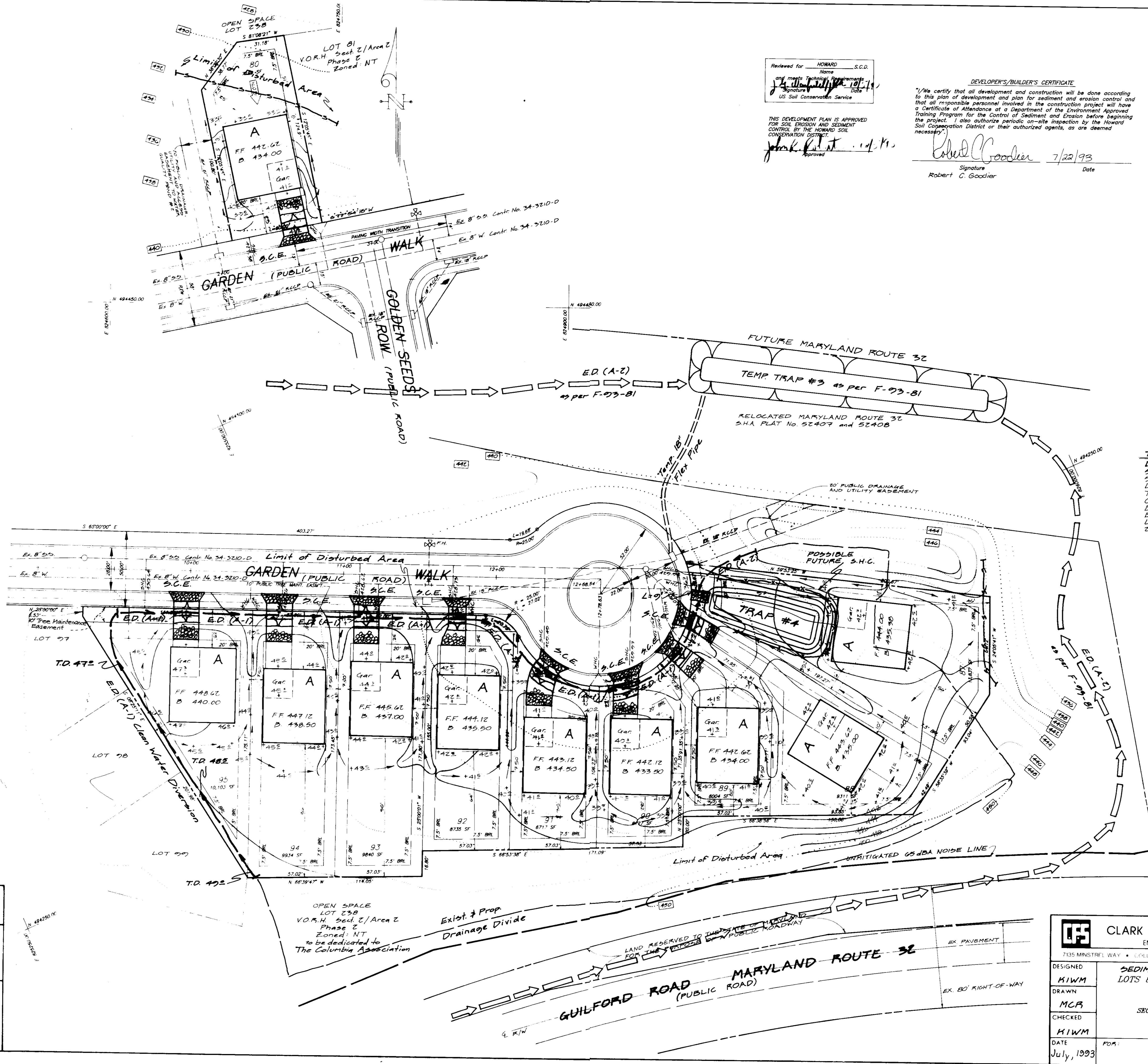
ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature: G. Nelson Clark Date: 7-22-93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 12-21-93
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: [Signature] DATE: 11/8/93
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 10/14/93

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 10/14/93
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 10/14/93

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINNISTREL WAY • COLUMBIA MD 21045 • (301) 737-8800

DESIGNED KIWM	SEDIMENT & EROSION CONTROL PLAN LOTS 80, 87-95, 123-130 & 223-236 COLUMBIA VILLAGE OF RIVER HILL SECTION 2 AREA 2 PHASES 1 & 2 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN MGR		DRAWING 3 of 5
CHECKED KIWM		JOB NO 92-074
DATE July, 1993		FILE NO 92-074-1
FOR:		GOODIER BUILDERS, INC. 5034 CORSEY HALL DR, #105 BELLICOTT CITY, MD 21043



Reviewed for HOWARD S.C.D. Name: *[Signature]* Date: 10/14/93
 and major Technical Requirements Signature: *[Signature]* Date: 10/14/93
 US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] Date: 10/14/93

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 sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
[Signature] Date: 7/22/93
 Robert C. Goodier

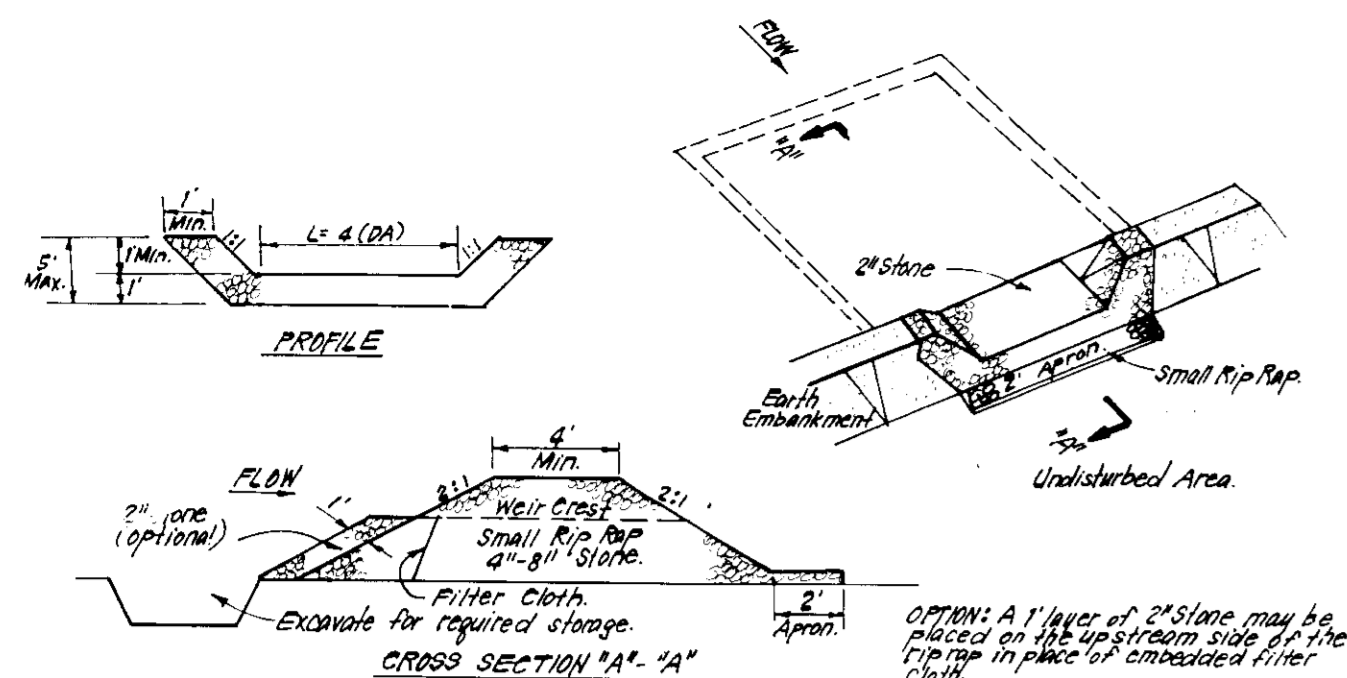
[Signature] 7-22-93
 ENGINEER'S CERTIFICATE
 "I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
[Signature] Date: 7-22-93
 G. Nelson Clark

TRAP #4 500T (2T-2)
 Drainage Area = 2.2 Acres
 Storage Required = 22 (1800) = 3960 c.f.
 Storage Provided = 4500 c.f.
 Design Depth = 3 feet
 Top of Stone Weir = 436.7
 Clean Out Elev. = 433.5
 Bottom Elev. = 432.0
 Bottom Dimensions = 67' x 14'
 L = 6'
 2:1 Side Slopes

OWNER:
 HOWARD RESEARCH & DEVELOPMENT CORP.
 10275 Little Patuxent Pkwy.
 Columbia, MD. 21044

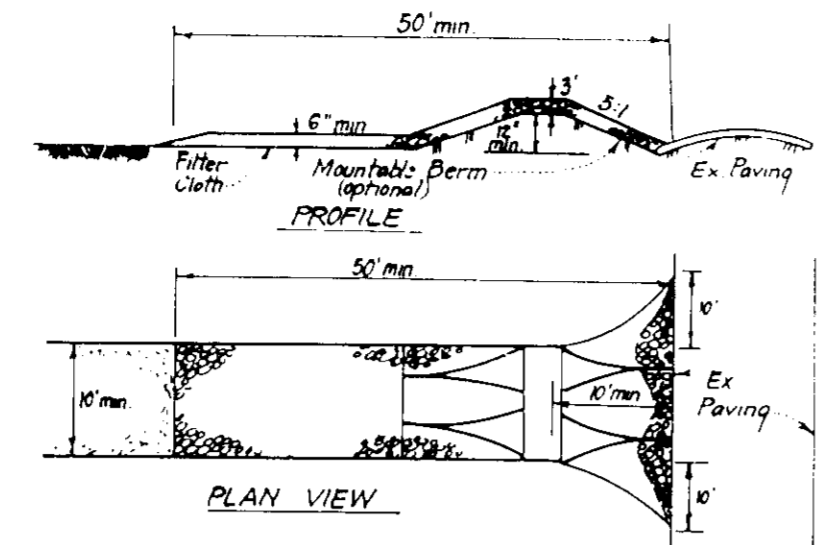
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 10/14/93
 APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: *[Signature]* DATE: 11/8/93
 DIVISION OF LAND DEVELOPMENT AND RESEARCH
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 10/14/93
 COUNTY BUREAU OF ENGINEERING

DESIGNED	SDP #4 SEDIMENT & EROSION CONTROL PLAN	SCALE 1" = 30'
DRAWN	LOTS 80, 87-95, 128-130 & 223-236	DRAWING 4 OF 5
CHECKED	COLUMBIA VILLAGE OF RIVER HILL	JOB NO. 92-074
DATE	SECTION 2 AREA 2 PHASES 1 & 2	FILE NO. 92-074-2
	5TH ELECTION DISTRICT	
	HOWARD COUNTY, MARYLAND	
	FOA: GOODIER BUILDERS, INC.	
	5054 GORDON HALL DR #205	
	ELICOTT CITY, MD 21043	



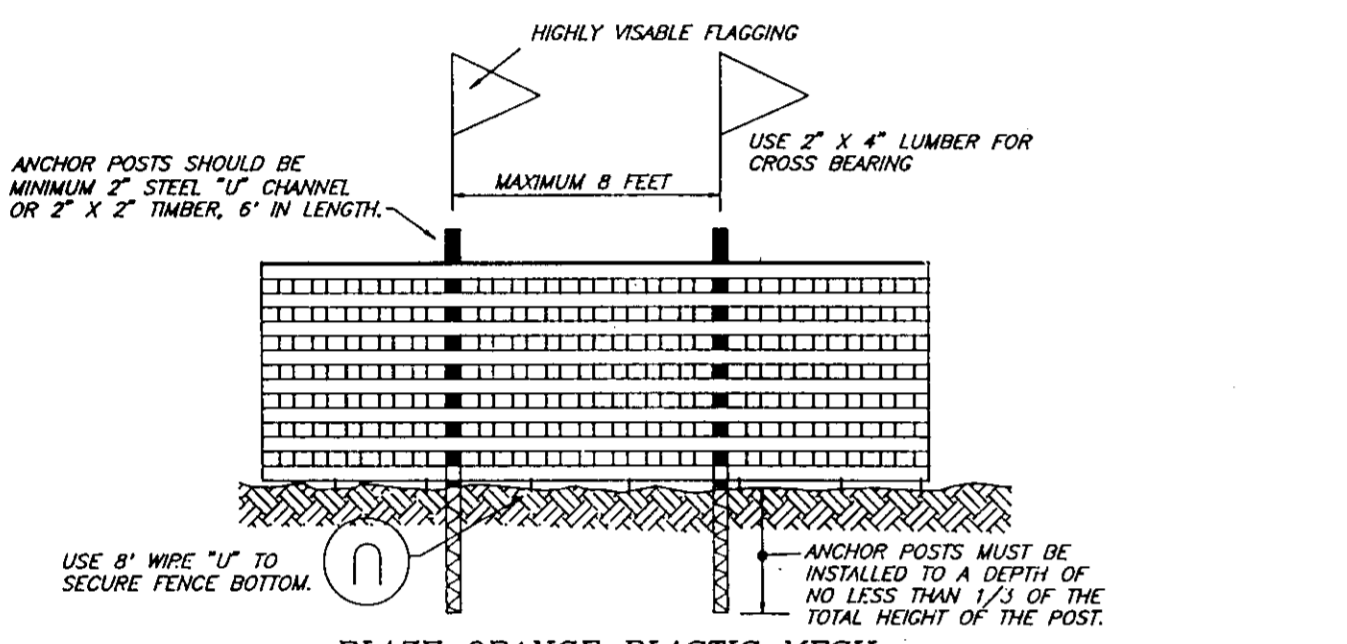
- CONSTRUCTION SPECIFICATIONS:**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The top area shall be compacted.
 2. The fill material for the embankment shall be free of rocks and other woody vegetation as well as over-size debris, rocks or other objectionable material. The embankment shall be compacted by traversing with equipment 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 4-8" along with 1" thickness of 2" aggregate placed on the up-grade side on the small rip rap or crushed filter cloth in the rip rap.
 5. Sediment shall be removed and the structure restored to its original dimensions when the sediment has accumulated to 1/2 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.) DETAIL
NO SCALE



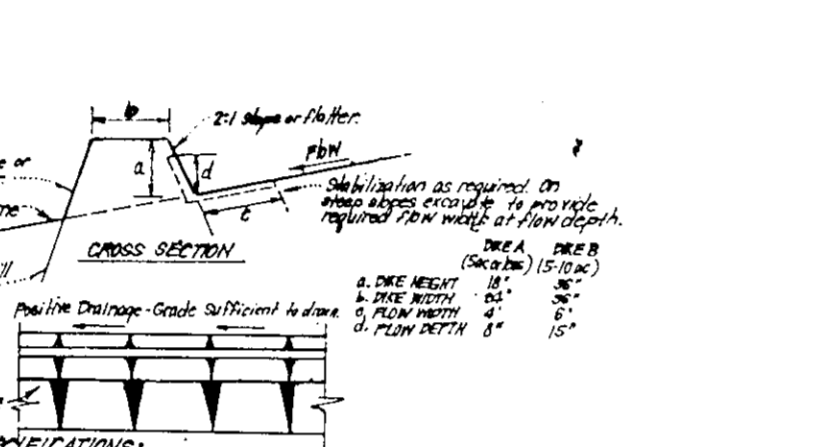
- CONSTRUCTION SPECIFICATIONS:**
1. Stone size - Use 2" stone or reclaimed or recycled concrete equivalent.
 2. Length - As required, but not less than 50' length (except on a single residence lot where a 30' lot minimum length would apply).
 3. Thickness - Not less than six (6) inches.
 4. Width - Ten (10) feet 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 over 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 measurable berm with 5:1 slopes will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition, which will prevent tracking or blowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as construction demand and repairs and for cleanup of any material used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 8. Washing - Vehicles 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.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



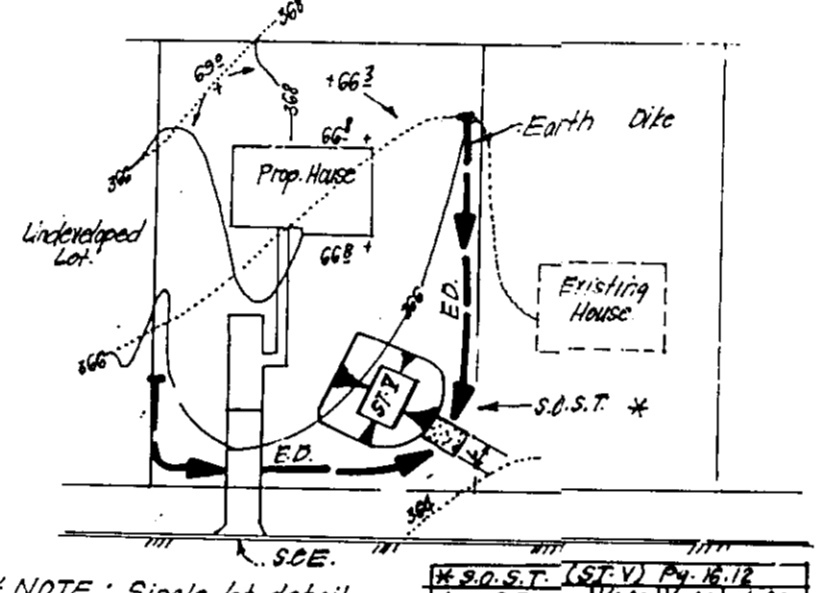
- CONSTRUCTION SPECIFICATIONS:**
1. All sites shall be demarcated by earth moving equipment.
 2. All sites shall have adequate drainage in a waterway.
 3. The earth may be water cut and slopes may be steeper if allowed in a suitable drainage or construction plan.
 4. Final location should be adjusted as needed to utilize a stabilized earth wall.
 5. Construction shall be done in such a manner that erosion and water pollution is minimized.
 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.

TYPICAL TREE PROTECTION FENCE DETAIL
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. All sites shall be demarcated by earth moving equipment.
 2. All sites shall have adequate drainage in a waterway.
 3. The earth may be water cut and slopes may be steeper if allowed in a suitable drainage or construction plan.
 4. Final location should be adjusted as needed to utilize a stabilized earth wall.
 5. Construction shall be done in such a manner that erosion and water pollution is minimized.
 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.

EARTH DIKE DETAIL (E.D.)
NO SCALE



- CONSTRUCTION SPECIFICATIONS:**
1. All sites shall be demarcated by earth moving equipment.
 2. All sites shall have adequate drainage in a waterway.
 3. The earth may be water cut and slopes may be steeper if allowed in a suitable drainage or construction plan.
 4. Final location should be adjusted as needed to utilize a stabilized earth wall.
 5. Construction shall be done in such a manner that erosion and water pollution is minimized.
 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.

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE

PERMANENT SEEDING NOTES

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

- SEEDBED 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:
- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq ft.) before seeding, and 800 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq ft.) before seeding, harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq ft.)
 - 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq ft.) before seeding. 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 well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.
- MULCHING:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 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.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not 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 ryegrass (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 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.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT AND EROSION 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. (313-1895).
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization 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: 4.24 Ac.
Area to be graded or paved: 1.50 Ac.
Area to be vegetatively stabilized: 2.74 Ac.
Total Cut: 21,386 cu yd.
Total Fill: 6,076 cu yd.
Office/Trap/Borrow Area Location: _____
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 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.
11. All pipes to be blocked at the end of each day (see detail this sheet).
12. The total amount of silt fence = 185 L.F.

It is the responsibility of the contractor to identify from the soil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

CONSTRUCTION SEQUENCE:

NO.	DESCRIPTION	NO. OF DAYS
1	Obtain grading permit	7
2	Install tree protection fence	7
3	Install sediment and erosion control devices and stabilize.	30
4	Excavate for foundations, rough grade and temporarily stabilize.	60
5	Construct structures, sidewalks and driveways.	60
6	Final grade and stabilize in accordance with Specs. and Specs.	14
7	Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

* Delay construction of houses on lots 87, 88 & 89. See single lot sediment control detail, this sheet.

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

County Health Officer: *[Signature]* DATE: 11-21-93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Director: *[Signature]* DATE: 11/8/93

Chief Division of Land Development and Research: *[Signature]* DATE: 11/8/93

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

Director: *[Signature]* DATE: 10/19/93

Chief Bureau of Engineering: *[Signature]* DATE: 10/14/93

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 sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

[Signature] DATE: 7/22/93

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion 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] DATE: 7-22-93

OWNER: HOWARD RESEARCH & DEVELOPMENT CORP. 10275 Little Patuxent Pkwy. Columbia, MD. 21044

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MANSTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 - BALTO • (301) 821-8100 - WASH

DESIGNED: *[Signature]* DATE: 7-22-93

DRAWN: MCR

CHECKED: KIWM

DATE: 7-22-93

SEDIMENT & EROSION CONTROL DETAILS
LOTS 80, 87-95, 128-130 & 223-236

COLUMBIA
VILLAGE OF RIVER HILL
SECTION 2 AREA 2 PHASES 1 & 2
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 30'

DRAWING: 5 of 5

JOB NO: 92-074

FILE NO: 92-074-01

FOR: GOODIER BUILDERS, INC. 2054 DORSEY HALL DR #205 ELWICOTT CITY, MD 21043