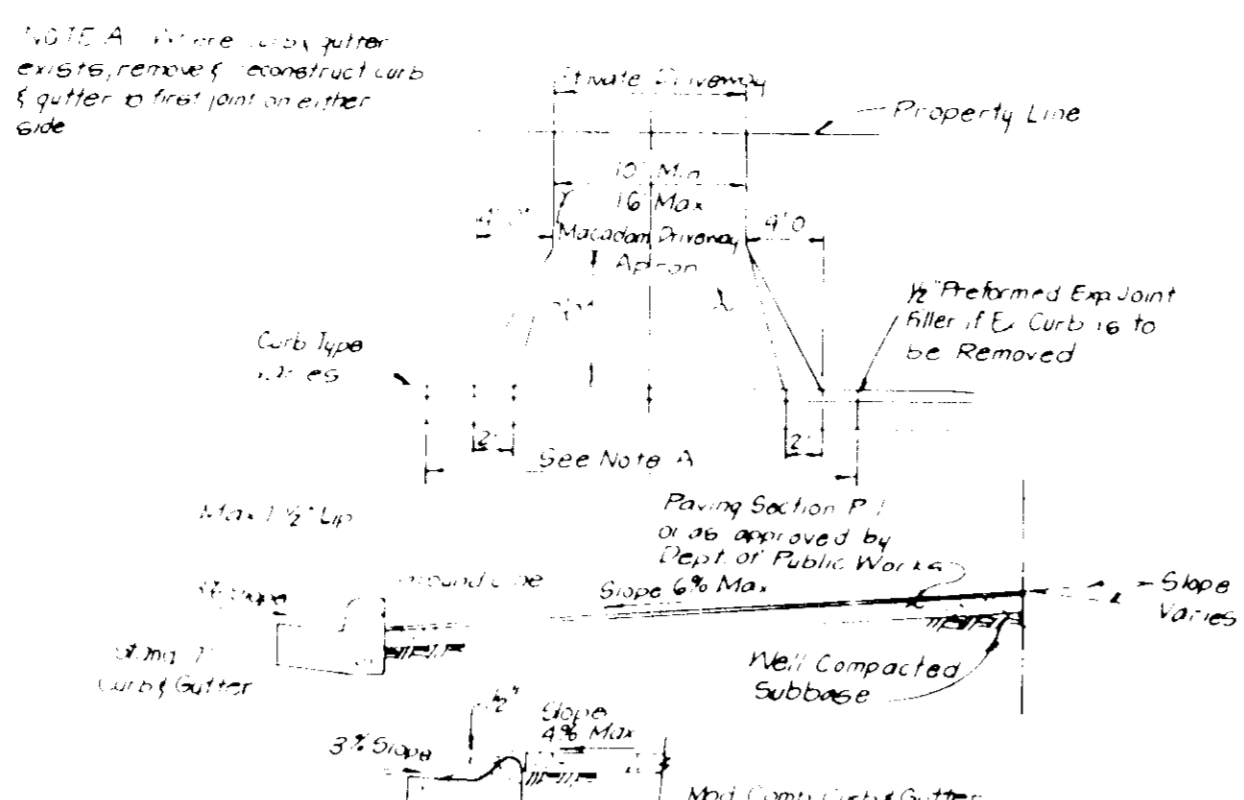
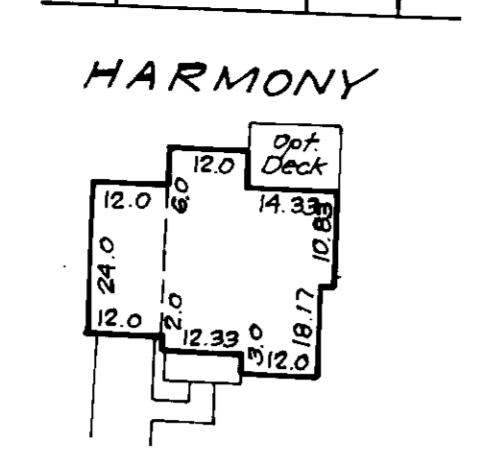
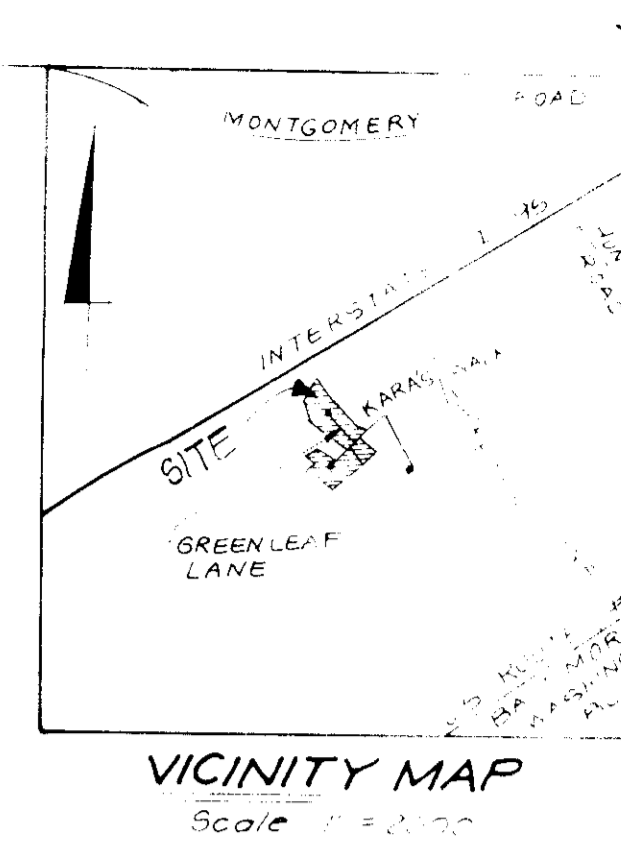


HAMPTON
 $\frac{1415.68}{0.3} = 4,718.95 \frac{1}{2}$ Min. Lot Size



ADDRESS CHART	
LOT #	STREET ADDRESS
46	6187
47	6193
48	6197
49	6200
50	6196
51	6192
52	6188
53	6184
54	
55	6205
56	6209
57	6213
58	6217
59	6221
60	6224
61	6220
62	6216
63	6212
64	6208
65	6204
66	6200
67	OPEN SPACE
43	6163 KARA'S WALK
44	6167 KARA'S WALK
45	6183 KARA'S WALK



LEGEND

- Contour Interval
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Walk out Basement
- Trees to be Saved
- Open Space Sign

LOT #	GROSS AREA	PIPESTEM AREA	FLOOD PLAIN/STEEP SLOPES	NET AREA
46	12,239	1,922		10,317
52	16,956	2,285		14,671
53	9,506		19	2,487
54	2,968		1273	8,432
57	8,249		1461	8,507
58	9,360		182	8,177
59	2,100		711	8,649
			381	2,215

GENERAL NOTES

- Subject property is zoned R-12 per 5-2-85 Comprehensive Zoning Plan.
- Property shown is located on Tax Map 37, Parcels 105, 106, 410, 446 & 555.
- The coordinates shown herein are based on the Maryland State Grid System as projected by Ho Co Geodetic Control Stations 2545001, 2545001 & 264 2008.
- For flag or pipestem lots refuse collection, snow removal, and road maintenance are provided to the junction of the flag or pipestem and road r/w line and not into the flag or pipestem lot driveway.
- See Dept of Planning & Zoning File Nos S-87-43, S-88-21, WP-88-30 P-88-34 F-89-105 F-89-224.
- The Wetland and Stream buffers indicated do 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 are permitted.
- Total number of lots 24.
- Topography taken from plan sheets by Clark-Finefrock & Sackett, Inc.
- Maximum lot coverage is 30%.
- All roads are public.
- Any damage to county owned right-of-ways to be corrected by the Developer's expense.
- Improvement to property: Single Family Dwelling Units.
- The Contractor or Developer shall contact the Construction Inspection Division 24 hours in advance of commencement of work at 792-2030.
- The total Area covered in this plan is 30.30 Ac.
- SWM provided under ex SWM # 40-101-115-DETACH-10

SPECIAL NOTES

All Road Construction, Storm Drainage Facilities and Public Water and Sewer are shown for reference only. Use approved Ho Co plans for all phases of construction. Improvements shown within the limits of lots on this SDP are not for construction. For construction see approved road construction plans 792-224 and/or approved water and sewer plans contr. # 14-1997-D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 2/4/91

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] DATE: 2/16/91
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 1-28-91
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 2-18-91

1 Rev hse & 9rd lot 43, Add hse typical
 REVISIONS
 2-18-91 Date

OWNER/DEVELOPER: Melbourne Estates 8950 Route 100 Suite 114 Columbia, MD 21045	Block No 3576/9577	Zone R-12	Lot No 43 thru 67	Area 1.54	Volume 6212
	Water Code A02			Sheet No 215	Total No 2700

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

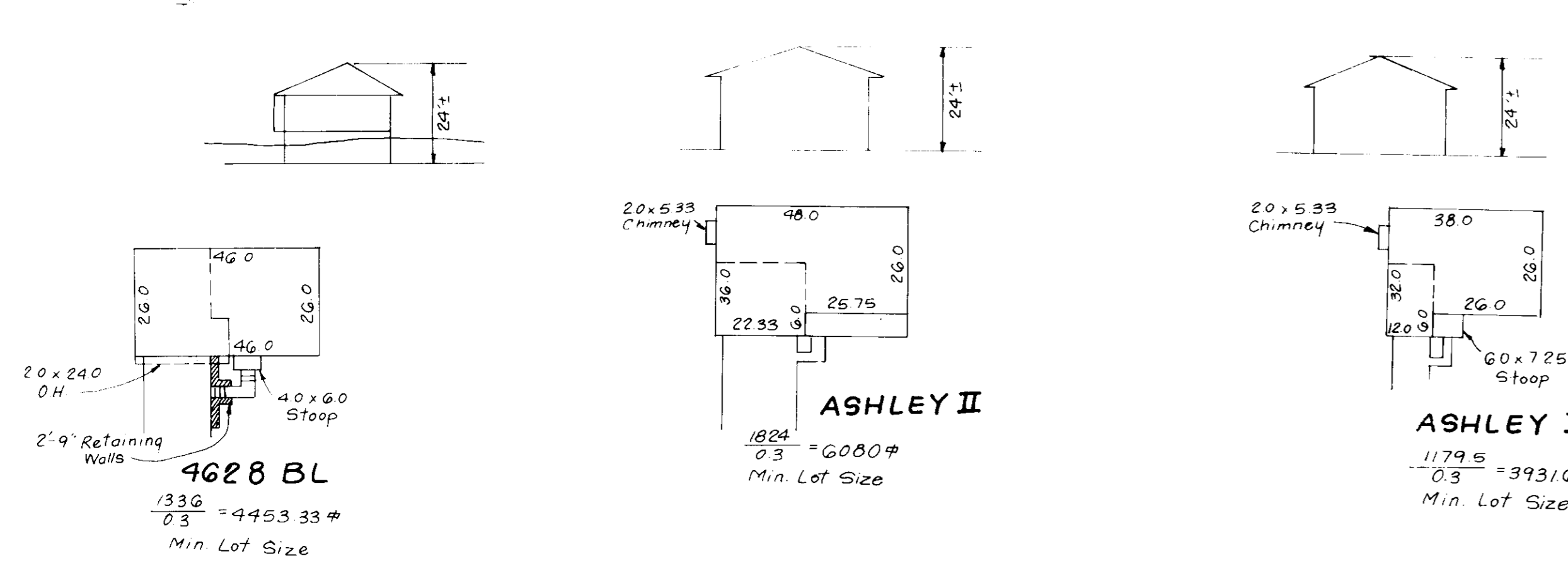
DESIGNED VLP
 DRAWN BAK
 CHECKED JME
 DATE May 1990

SITE DEVELOPMENT PLAN
 LOTS: 43 thru 67
MELBOURNE ESTATES
 SECTION 1 AREA 3
 A Resubdivision of Lot 42, Section 1 Area 2
 1st ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE 1" = 30'
 DRAWING 1 of 5
 JOB NO. 108-MG-122
 SHEET NO. 36-122

FOR The Builders Guild, Inc.
 8950 Route 100 - Suite 114
 Columbia, Md 21045





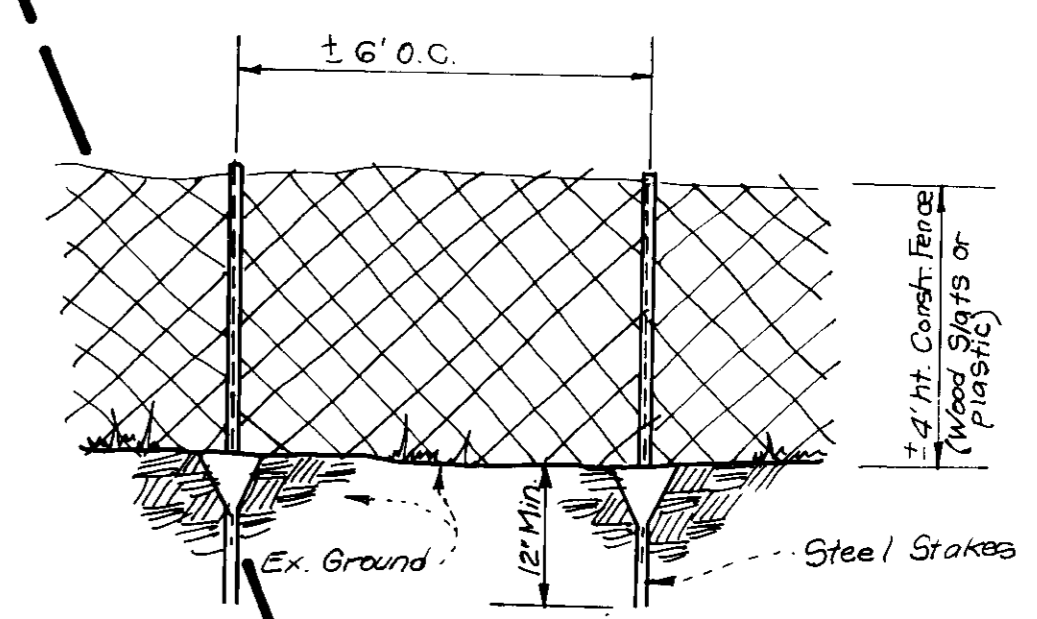
TYPICAL HOUSES

Scale: 1" = 30'
NOTE: All units have 1' roof eaves, front & rear

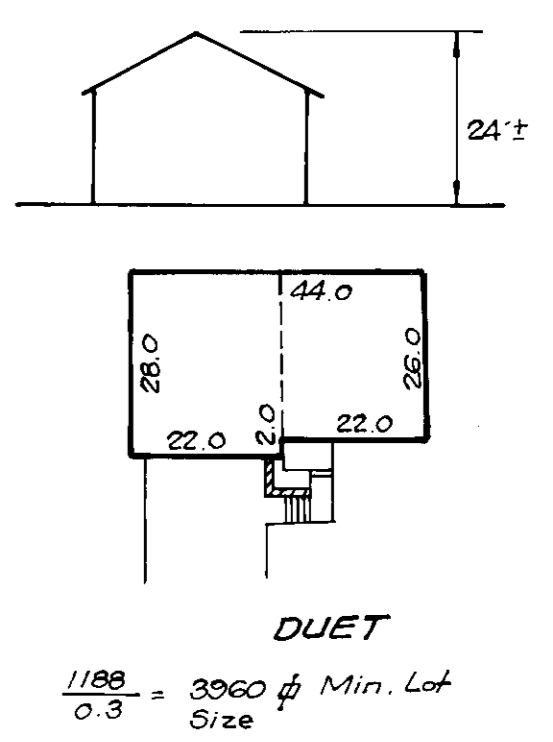
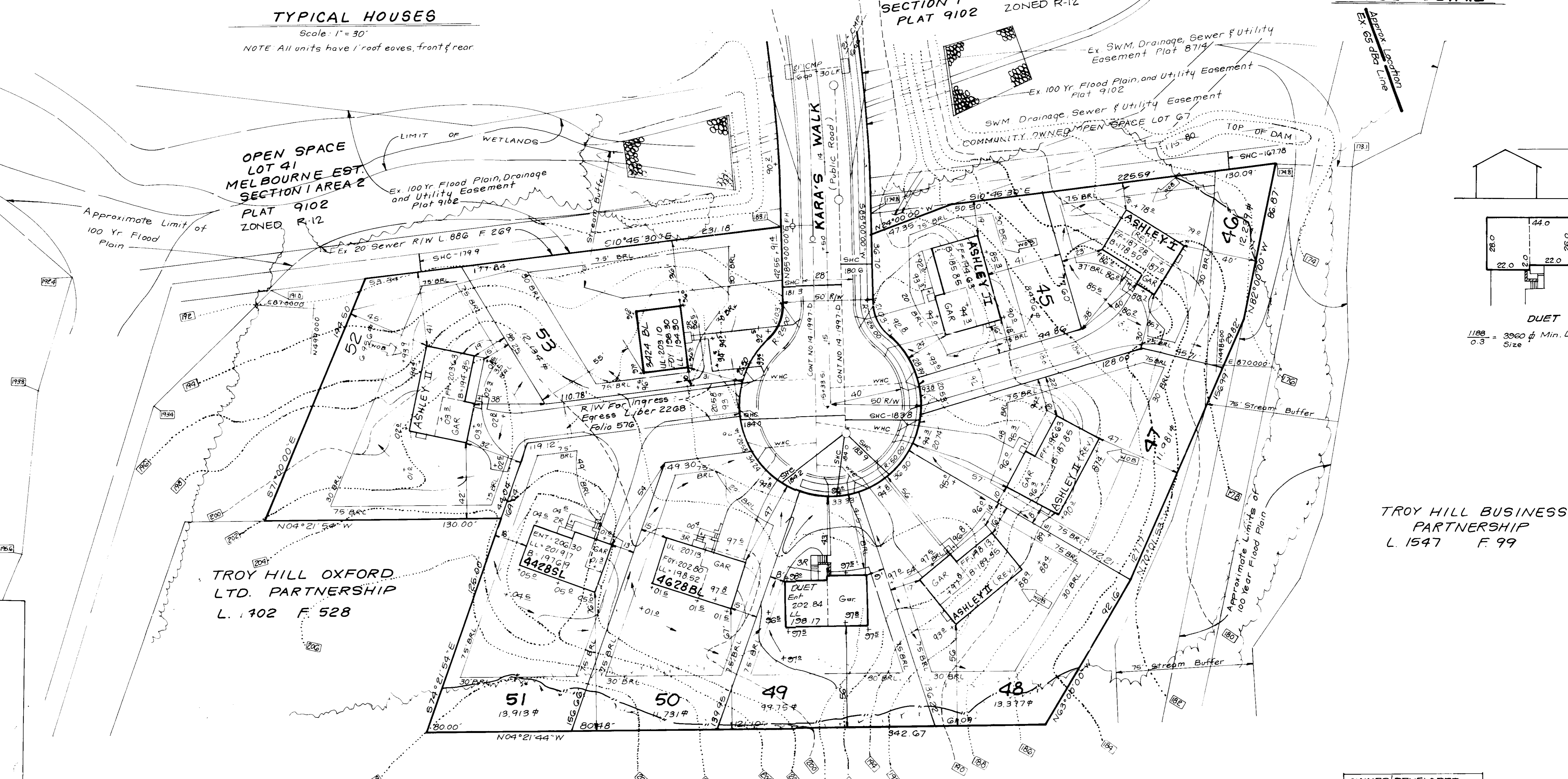
4428 SL
1232
0.3 = 4106 G7#
Min Lot Size

3424 BL
884 = 2946 G6
0.3 Min Lot Size

TYPICAL TREE PROTECTION FENCE DETAIL



LOT#	Min. Cellar Elev.
43	180.0
44	187.5
45	84.6
46	172.1
47	187.1
48	187.6
49	187.5
50	88.2
51	88.2
52	183.0
53	85
54	186.8
55	186.2
56	182.0
57	182.0
58	184.1
59	185.2
60	186.5
61	186.8
62	186.8
63	183.0
64	187
65	180.7
66	181.1
67	181.1



TROY HILL BUSINESS PARK PARTNERSHIP
L. 1547 F. 99

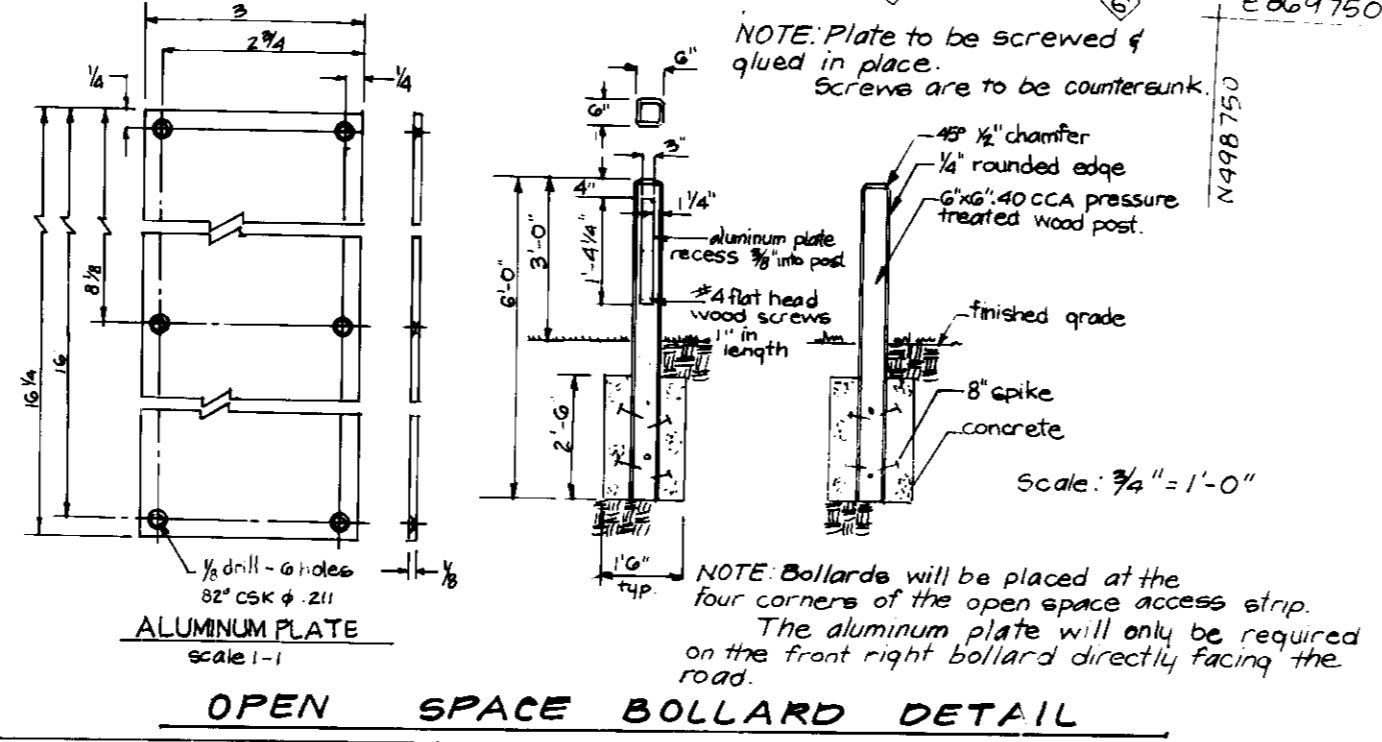
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] DATE: 2/4/91

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR: [Signature] DATE: 2/6/91

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] DATE: 1/29/91

REVISIONS

NO.	REVISIONS	DATE
1	Rev. hse. f. gnd. lot 49, Add hse. typical	3/30/91



OWNER/DEVELOPER:
Melbourne Estates
415 2nd St. N.W.
Columbia, MD 21045

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

DESIGNED: VLP
DRAWN: BAK
CHECKED: JME
DATE: MAY 1990

SITE DEVELOPMENT PLAN
LOTS: 43 thru 67
MELBOURNE ESTATES
SECTION 1 AREA 3
A Resubdivision of Lot 42, Section 1 Area 2
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: The Builders Guild, Inc.
8950 Route 100, Suite 114
Columbia, Md 21045

SCALE: 1" = 30'
DRAWING: 2 of 5
JOB NO: 86-122
SHEET: 86-122



SDP-91-32

LEGEND

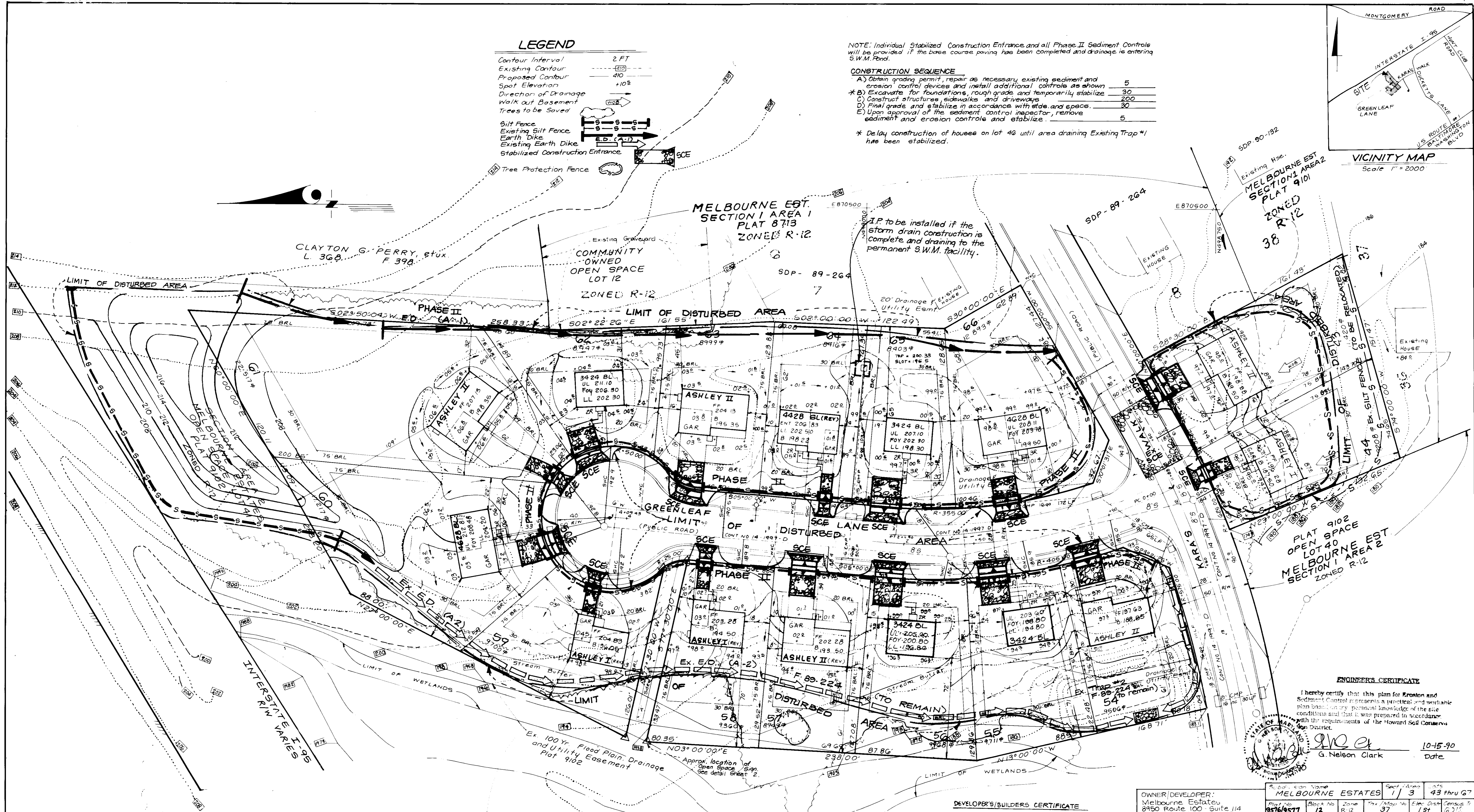
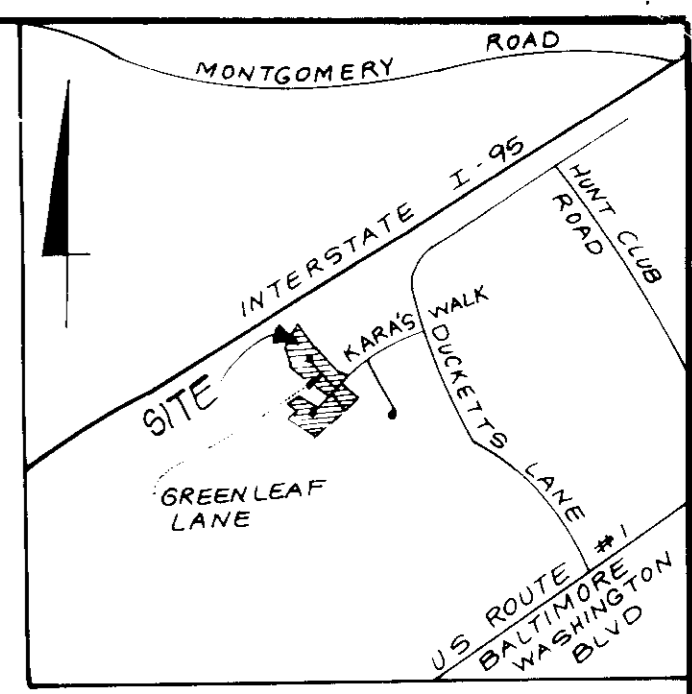
- Contour Interval 2 FT
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Walk out Basement
- Trees to be Saved
- Silt Fence
- Existing Silt Fence
- Earth Dike
- Existing Earth Dike
- Stabilized Construction Entrance
- Tree Protection Fence

NOTE: Individual Stabilized Construction Entrance and all Phase II Sediment Controls will be provided if the base course paving has been completed and drainage is entering S.W.M. Pond.

CONSTRUCTION SEQUENCE

- A) Obtain grading permit, repair as necessary existing sediment and erosion control devices and install additional controls as shown 5
- * B) Excavate for foundations, rough grade, and temporarily stabilize 30
- C) Construct structures, sidewalks, and driveways 200
- D) Final grade, and stabilize in accordance with site and space 30
- E) Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize 5

* Delay construction of houses on lot 46 until area draining Existing Trap #1 has been stabilized.



ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

G. Nelson Clark
G. Nelson Clark
10-15-90
Date

DEVELOPER'S/BUILDERS CERTIFICATE

I hereby certify that all development and construction will be done according to the plan of development and also 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 Soil Conservation District or their authorized agents as may be deemed necessary.

F. Chan Chung
Signature of Developer/Builder
1-3-91
Date

OWNER/DEVELOPER:
Melbourne Estates
8950 Route 100 - Suite 114
Columbia, MD 21045

Subdivision Name	MELBOURNE ESTATES	Sheet	1 / 3	of	43 thru 67
Plot No.	9576/9577	Block No.	12	Zone	R-12
Water Code	A02	Block No.	37	File Map No.	151
		Block No.	151	Census Tr.	621E
		Block No.	2152700		

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
[Signature]
COUNTY HEALTH OFFICER
DATE 2-4-91

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
[Signature]
DATE 2/6/91

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature]
DATE 1-28-91

Reviewed for Howard County
Name
and meets Technical Requirements
[Signature]
Signature
Date 1-16-91
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
[Signature]
Approved
Date 1/16/91

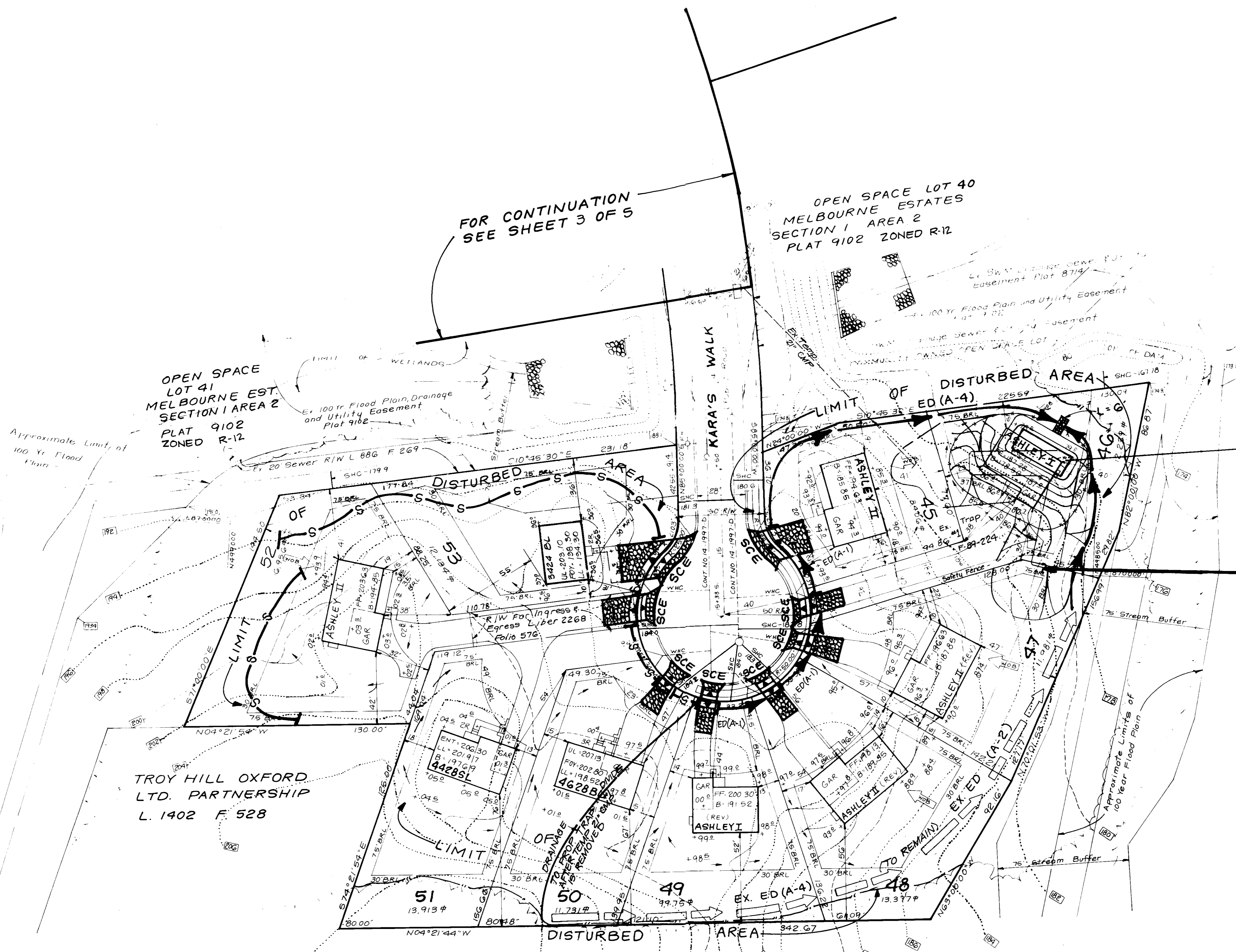
CLARK • FINEROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINTHILL WAY • COLUMBIA, MD 21045 • (301) 381-7700 • BALTO • (301) 621-8100 • WASH

DESIGNED: SITE DEVELOPMENT PLAN
KIWM
SCALE: 1" = 30'

DRAWN: BAK
VLP
DRAWING: 3 of 5

CHECKED: KIWM
JOB NO: 86-122

DATE: May 1990
FOR The Builders Guild, Inc.
8950 Route 100 - Suite 114
Columbia, Md 21045
FILE NO: 86-122SE



**PHASE II
PROP. TRAP #1 80ST ST-V**

DA = 1.3 Ac.
 Storage Req'd = 1.3 (1800) = 2340 CF
 Storage Provided = 2400 CF
 Depth = 3'
 Top of Stone Weir = 177.0
 Bottom Elevation = 173.0
 Clean Out Elevation = 174.5
 Bottom Dimensions = 34' x 14'
 L = 3'
 2:1 Side Slopes

NOTE:

Existing Trap #1, as per F-89-224, to remain until storm drainage construction is completed and temp. 21" C.M.P. diversion has been removed. Once existing Trap #1 (F-89-224) is removed and area stabilized, Ex. Trap #1 may be reduced as shown on phase II, Trap #1.

**TROY HILL BUSINESS PARK
PARTNERSHIP
L. 1547 F. 99**

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

[Signature] 2-4-91
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING

[Signature] 2/6/91
 DIRECTOR DATE

[Signature] 2/5/91
 CHIEF DIVISION OF PLANNING & ZONING AND LAND DEVELOPMENT DATE

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

[Signature] 1/20/91
 DIRECTOR DATE

[Signature] 1-28-91
 CHIEF BUREAU OF ENGINEERING DATE

Reviewed for HOWARD COUNTY S.C.D.
 Name
 and meets Technical Requirements
[Signature] 1-16-91
 Signature Date
 U.S. Soil Conservation Service



[Signature] 6-26-90
 G. Nelson Clark 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 Erosion and Sedimentation 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."

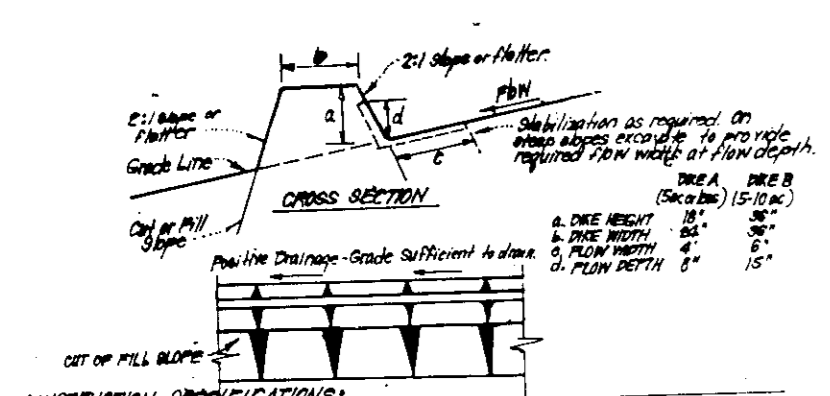
[Signature] 1/3/91
 Signature of Developer/Builder Date

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

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

7135 MINISTREL WAY • COLUMBIA, MD 21045 • TEL: (410) 751-1111 • FAX: (410) 751-1111

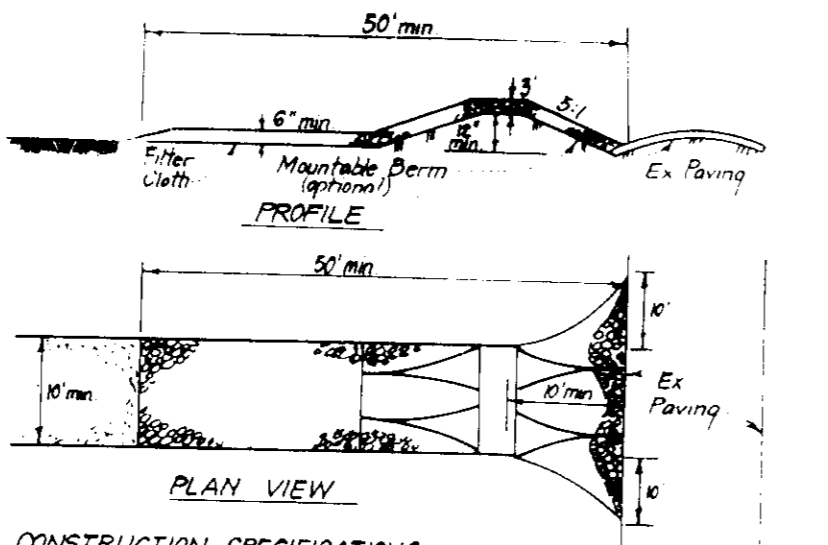
DESIGNED KIWM	SEDIMENT AND EROSION CONTROL PLAN LOTS: 43 thru 67	SCALE 1" = 30'
DRAWN BAK	MELBOURNE ESTATES SECTION 1 AREA 3	DRAWING 4 of 5
CHECKED KIWM	A Resubdivision of Lot 42, Section 1 Area 2 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 8G-122
DATE JUNE 1990	FOR: The Builders Guild, Inc. 8950 Route 100 - Suite 114 Columbia, Md 21045	FILE NO. 8G-122 SE



CONSTRUCTION SPECIFICATIONS:

1. All ditches shall be constructed by earth moving equipment.
2. All ditches shall have positive drainage to an outlet.
3. The width may be wider and slope shall be steeper if desired, to facilitate maintenance.
4. Slope shall be adjusted as needed to utilize a stabilized area with 25% protection.
5. Earth shall have an outlet that discharges into a permanent flow channel.
6. Earth shall be compacted to a minimum of 95% relative compaction.
7. Slope shall be 2:1 or flatter in accordance with standard specifications for soil and straw mulch or straw mulch 1/2" in seeding season, (B) flow channel as per chart below.

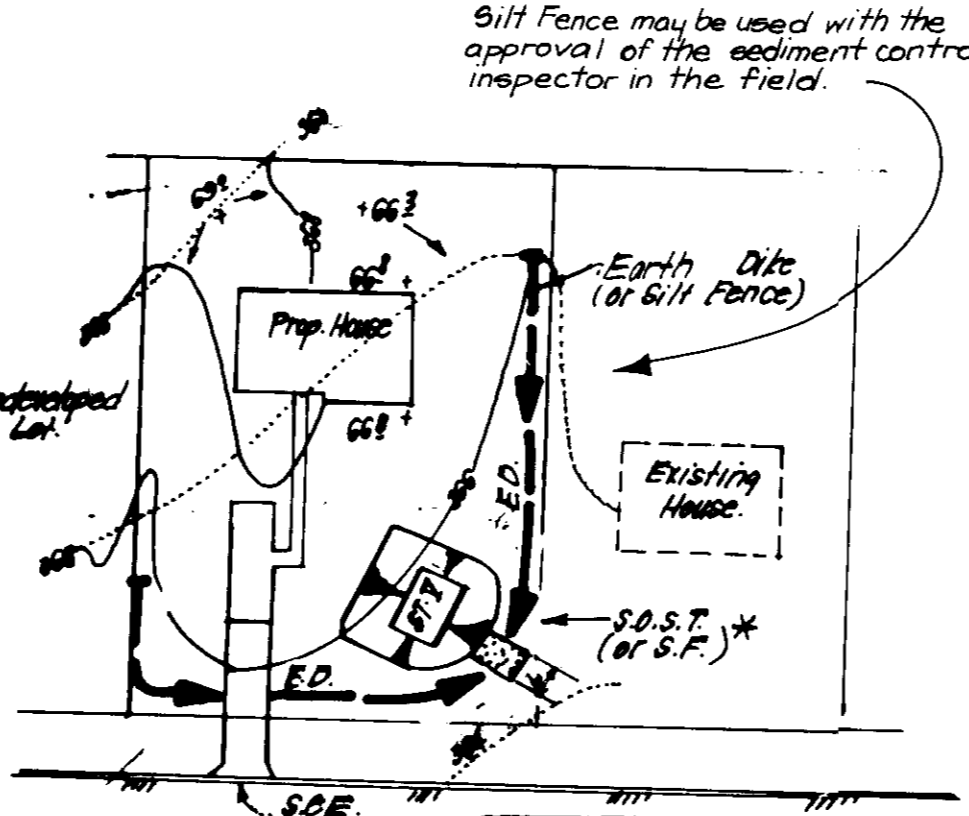
EARTH DIKE DETAIL (E.D.)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

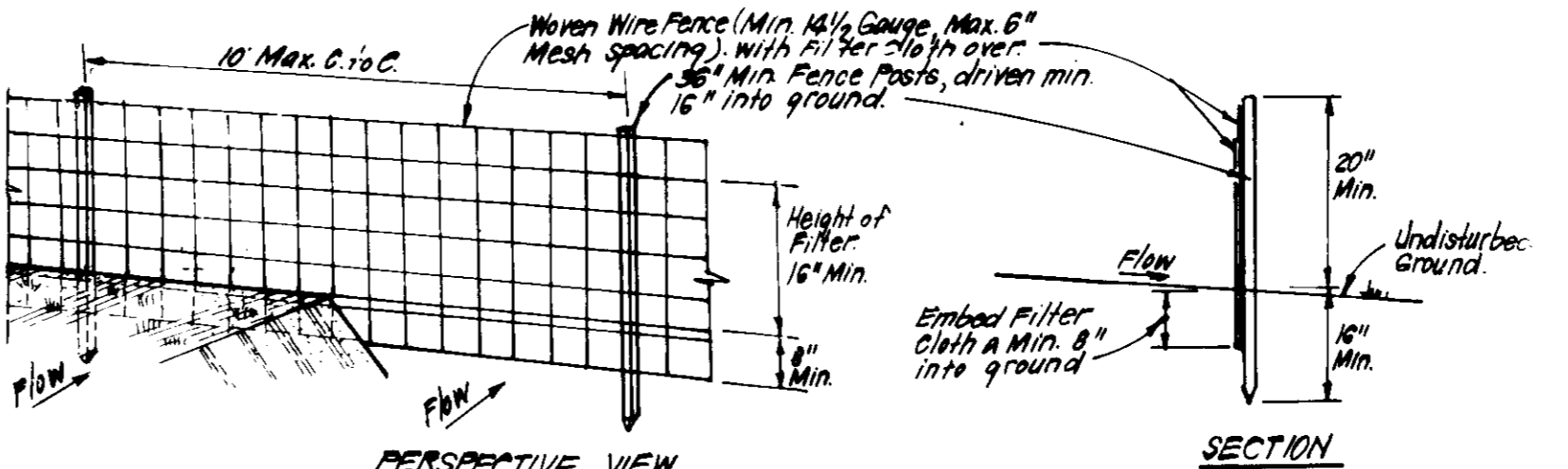
1. Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 30 feet, except on a single residential lot where a 30 foot minimum length would apply.
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the flow 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 residential lot.
6. Surface Water - All surface water flowing or diverted through construction entrances shall be placed over the entrance. If it is not possible, a main side ditch 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 concrete wears and/or cleaning of the mesh used to trap sediment. All sediment applied, dragged, 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.

STABILIZED CONSTRUCTION ENTRANCE (SCE)
NO SCALE



* NOTE: Single lot details can not be utilized if any two lots sharing common property lines are to be disturbed at the same time or on any lots showing a sediment trap.

SINGLE LOT SEDIMENT CONTROL PLAN
NO SCALE



CONSTRUCTION SPECIFICATIONS:

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 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and stapled.
4. Maintenance shall be performed as needed and material removed when "bulges" develop in Silt Fence.

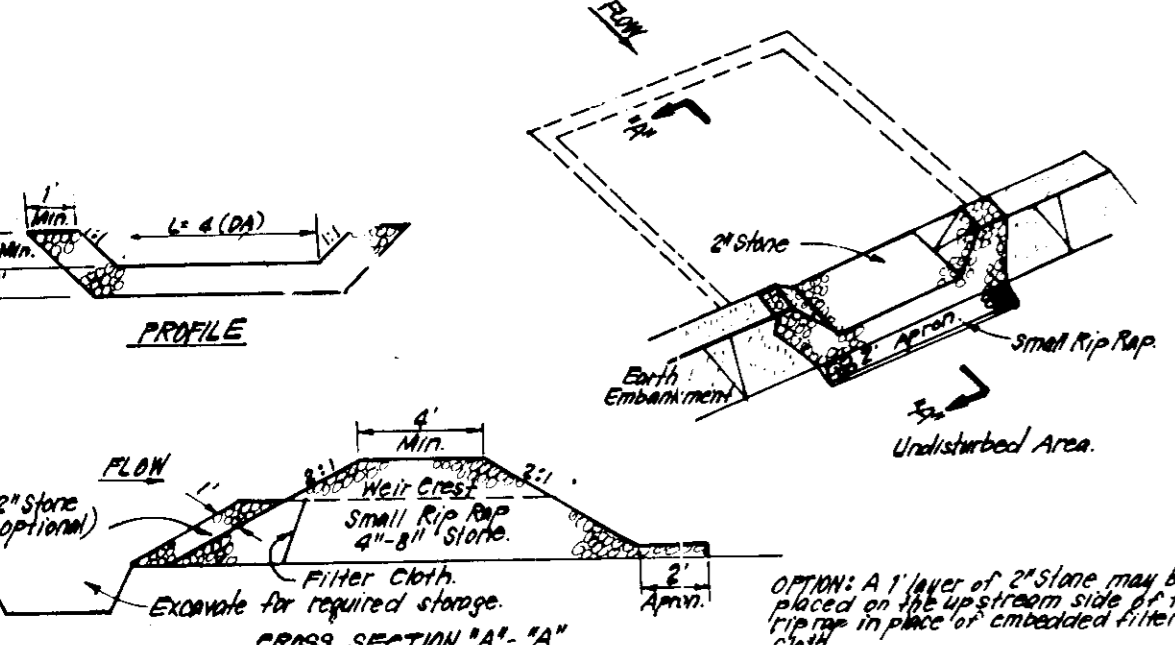
POSTS: Steel, either T or U Type or 2" x 4" hardwood.

FENCE: Woven Wire, 1/4" Gauge, 6" Max. Mesh Opening.

FILTER CLOTH: Filter Cloth, 100% Slab Links, 1/4" or Approved equal.

PREFABRICATED UNIT: Geotex, Envirofence, or Approved equal.

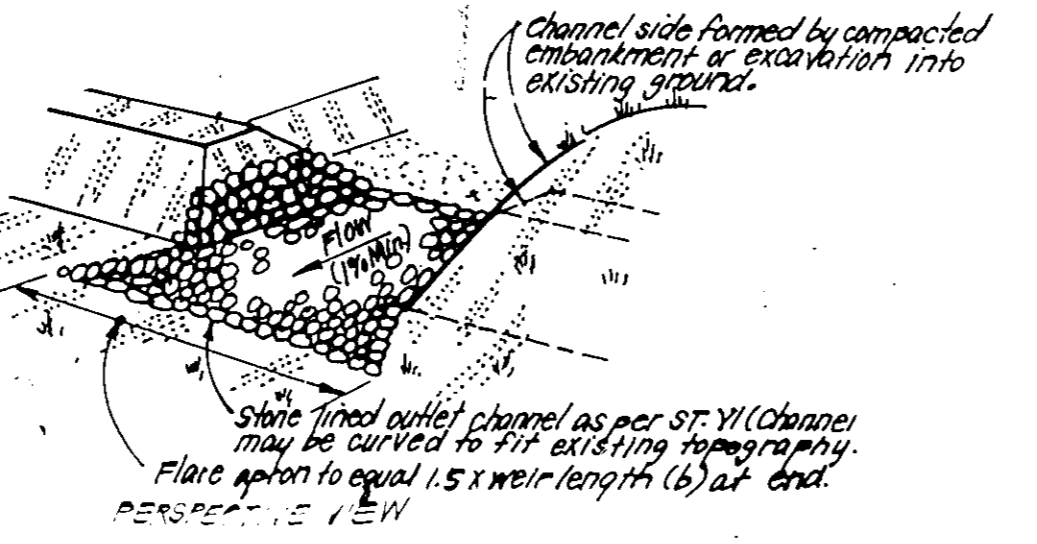
SILT FENCE DETAIL (S)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil shall be compacted.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as ever sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
3. All soil and fill shall be compacted to a minimum of 95% relative compaction.
4. The stone used in the outlet shall be small rip rap at 1/2" along with 1" thickness of 2" aggregate placed on the up-grade side on the small rip rap. Embed filter cloth in the rip rap.
5. Rip rap shall be compacted to 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.

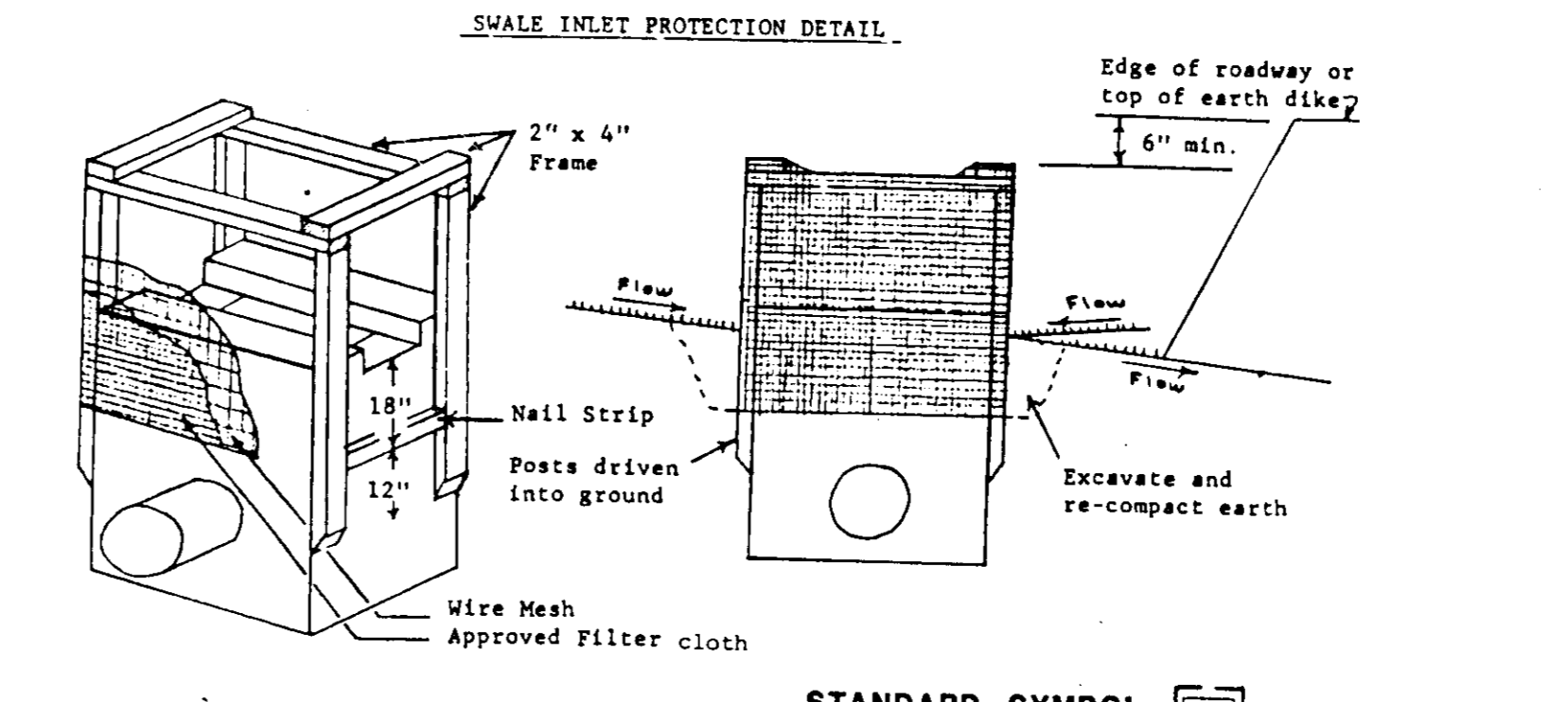
STONE OUTLET SEDIMENT TRAP (S.O.S.T.)
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil shall be compacted.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as ever sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Max. height of embankment shall be 5' measured at 4:1 slope.
3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
4. Elevation of the top of any dike directing water into trap must equal or exceed height of embankment.
5. Storage area provided shall be required by computing the volume available behind the outlet channel up to an elevation of 1' below the lower weir crest.
6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least 1' with section nearest the entrance placed on top. Fabric shall be embedded at least 6" into existing ground at entrance of outlet channel.
7. Stone used in the outlet channel shall be 4" to 8" rip rap. To provide a filtering effect, a layer of filter cloth shall be embedded 1" into the upstream face of the outlet stone or a 1" thick layer of 2" or finer aggregate shall be placed on the upstream face of the outlet.
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
9. The structure shall be inspected after each rain and repaired as needed.
10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
12. Drainage area for this practice is limited to 15 acres or less.

RIPRAP OUTLET SEDIMENT TRAP - ST-VI
NO SCALE



SWALE INLET PROTECTION DETAIL
STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS:

I. MATERIALS:

- A. Wooden frame is to be constructed of 2"x4" construction grade lumber.
- B. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it.
- C. Filter cloth must be of a type approved for this purpose resistant to sunlight with sieve size, EDS 20-85, to allow sufficient passage of water and removal of sediment.
- D. Stone is to be 2" in size and clean since fines would clog the cloth.

II. PROCEDURE:

SWALE DITCHLINE OR YARD INLET PROTECTION:

1. Excavate completely around inlet to a depth of 6" below notch elevation.
2. Drive 2x4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2x4 frame using nail strip joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.
4. Stretch filter cloth tightly over wire mesh. The cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.
5. Back fill ground inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.
6. If the inlet is not in a low point, construct a compacted earth dike in the ditch line below it. The top of this earth dike is to be at least 6" higher than the top of frame (weir).
7. The structure must be inspected frequently and filter fabric replaced when clogged.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas 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, disking 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) and 400 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow 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).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (21 lbs/1000 sq ft) before seeding. Narrow 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 (0.5 lbs/1000 sq ft) of weeping lovegrass (15 lbs/1000 sq ft) of mulatiff asphalt on flat areas. On slopes 8 feet or higher, use 348 gallon per acre (8 gal/1000 sq ft) for anchoring.

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 of weeping lovegrass (.07 lbs/1000 sq ft) for anchoring on flat areas. On slopes 8 feet or higher, use 348 gallon 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 areas likely to be redistributed where a short-term vegetative cover is needed.

Seeded Preparation: Loosen upper three inches of soil by raking, disking 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 25 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 15, 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. 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 of weeping lovegrass (.07 lbs/1000 sq ft) for anchoring on flat areas. On slopes 8 feet or higher, use 348 gallon per acre (8 gal/1000 sq ft) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.

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 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 perimeter in accordance with Vol. 1, Chapter 14 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) and (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 53). 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	6.32 Acres
Area Disturbed	5.03 Acres
Area to be reseeded or paved	1.61 Acres
Area to be vegetatively stabilized	3.42 Acres
Total Cut	6410 Cu. yds
Total Fill	12600 Cu. yds
Off-site waste/borrow area location	Included on plat sheet 8 of 8.
- 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 DPM 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 an "As-Built" 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). N/A
- 13) The total amount of straw mulch dikes/silt fence equals 1860 L.F.

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

Count Health Officer: *[Signature]* 2-4-91 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Chief of Planning: *[Signature]* 2/6/91 DATE

Chief of Zoning: *[Signature]* 2/6/91 DATE

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

Director: *[Signature]* 1-28-91 DATE

Chief Bureau of Engineering: *[Signature]* 1-28-91 DATE

Reviewed by HOWARD SCD Name: *[Signature]* 1-16-91 Date

U.S. Soil Conservation Service

Approved by: *[Signature]* 1/16/91 Date

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

OWNER/DEVELOPER: Melbourne Estates, 8950 Route 100, Suite 114, Columbia, MD, 21045

DEVELOPER'S/ENGINEER'S CERTIFICATE

"I/We certify that development and construction will be done according to the 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 Soil Conservation District or their authorized agents, as are deemed necessary."

[Signature] 1/16/91 Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature] 6-26-90 Date

G. Nelson Clark

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

7135 MINTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED	SEDIMENT AND EROSION CONTROL PLAN	SCALE	1" = 30'
KIWM	LOTS: 43 thru G7	DRAWING	5 of 5
BAK	MELBOURNE ESTATES	SECTION 1 AREA 3	
CHECKED	A Resubdivision of Lot 42, Section 1 Area 2	JOB NO.	8G-122
KIWM	1st ELECTION DISTRICT	FILE NO.	8G-122SE
DATE	JUNE 1990	FOR: The Builders Guild, Inc.	
		8950 Route 100 - Suite 114	
		Columbia, MD 21045	

SDP-91-32