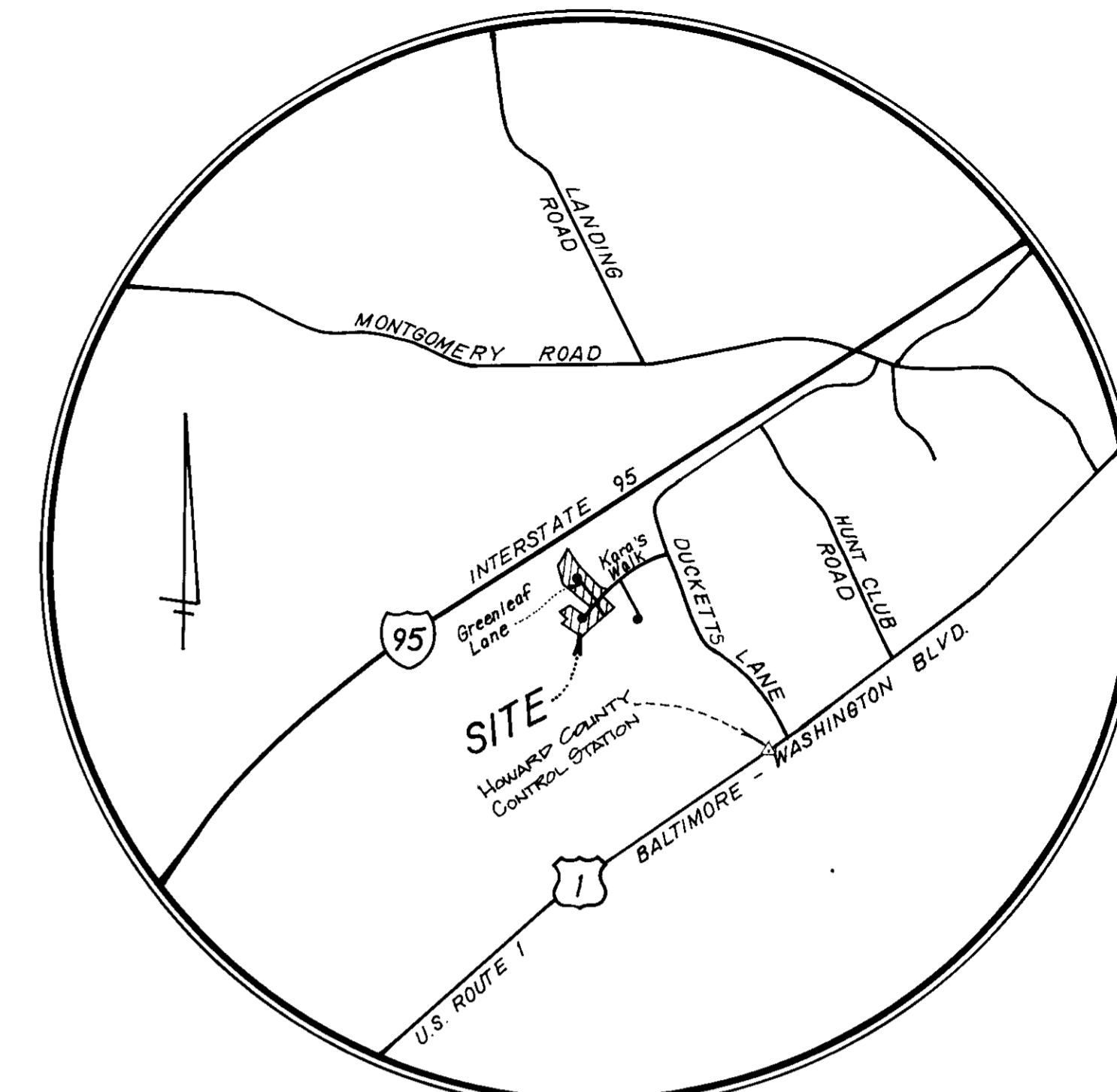


GENERAL NOTES

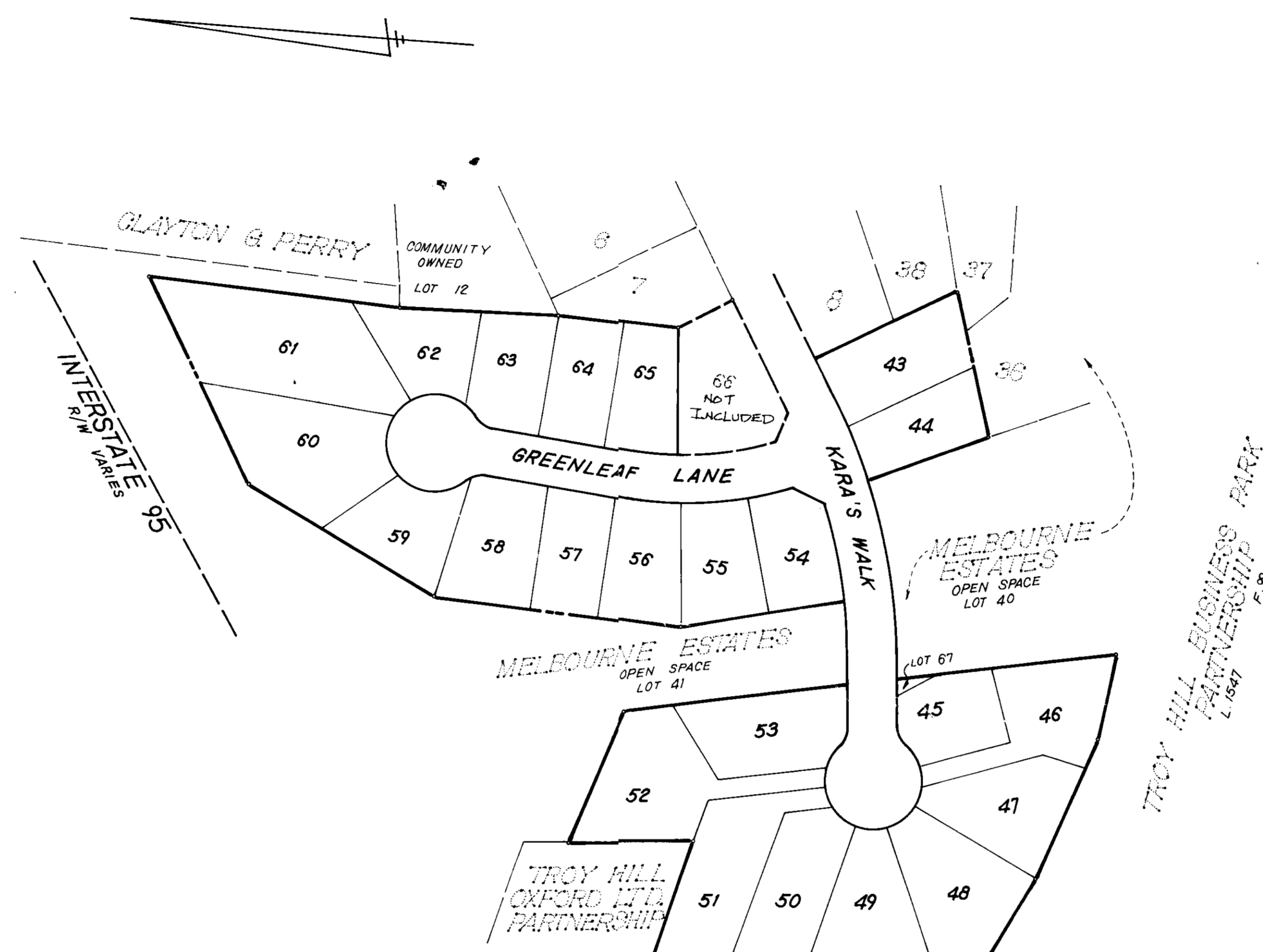
- SUBJECT PROPERTY IS ZONED R-12 PER 6/2/85 COMPREHENSIVE ZONING PLAN.
- PROPERTY SHOWN IS LOCATED ON TAX MAP 37, PARCELS 105, 106, 416, 446 & 555.
- THE COORDINATES SHOWN HEREON ARE BASED ON THE MARYLAND STATE GRID SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETTIC CONTROL STATIONS 2545001, 2545001 & 264-9008.
- 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 ONTO THE FLAG OR PIPESTEM LOT DRIVEWAY.
- SEE DEPT. OF PLANNING & ZONING FILE No's, S-87-43, S-88-21, WP-88-30, P-88-33, F-89-105, F-89-224, & DD-91-24.
- 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 PLANS PREPARED BY CLARK, FINEFROCK & SACKETT, INC.
- ALL ROADS ARE PUBLIC.
- ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAYS TO BE CORRECTED AT 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 (410) 313-1800.
- THE TOTAL AREA COVERED IN THIS PLAN 6.32 AC.
- SWM PROVIDED BY EX-SWM DETENTION POND (F-89-105).
- THE EXISTING SWM DETENTION POND WAS CONSTRUCTED UNDER MELBOURNE ESTATES, 1/1 F-88-289

SPECIAL NOTES

- ALL ROAD CONSTRUCTION, STORM DRAINAGE FACILITIES AND PUBLIC WATER AND SEWER ARE SHOWN FOR REFERENCE ONLY.
- USE APPROVED HOWARD COUNTY PLANS FOR ALL PHASES OF CONSTRUCTION.
- IMPROVEMENTS SHOWN WITHIN THE RIGHTS-OF-WAY ON THIS SDP ARE NOT FOR CONSTRUCTION. FOR CONSTRUCTION, SEE APPROVED ROAD CONSTRUCTION PLANS F-89-224 AND/OR APPROVED WATER AND SEWER PLANS CONSTR.#14-1997-D.



VICINITY MAP
SCALE: 1"=2000'



PROJECT INDEX MAP
SCALE: 1"=100'

PERMIT BLOCK

SUBDIVISION NAME: MELBOURNE ESTATES		SECT./AREA: 1 / 3	LOTS: 43-67
PLAT No: 9575/9577	BLOCK No: 12	TAX MAP No: 12	ELECT. DIS: 6012
WATER CODE: 402		SEWER CODE: 2152700	

ADDRESS CHART

LOT	STREET	ADDRESS
46	6187	KARA'S WALK
47	6193	KARA'S WALK
48	6197	KARA'S WALK
49	6200	KARA'S WALK
50	6196	KARA'S WALK
51	6192	KARA'S WALK
52	6188	KARA'S WALK
53	6184	KARA'S WALK
54	6201	GREENLEAF LANE
55	6205	GREENLEAF LANE
56	6209	GREENLEAF LANE
57	6213	GREENLEAF LANE
58	6217	GREENLEAF LANE
59	6221	GREENLEAF LANE
60	6224	GREENLEAF LANE
61	6220	GREENLEAF LANE
62	6216	GREENLEAF LANE
63	6212	GREENLEAF LANE
64	6208	GREENLEAF LANE
65	6204	GREENLEAF LANE
67		OPEN SPACE
43	6163	KARA'S WALK
44	6167	KARA'S WALK
45	6163	KARA'S WALK

LOT	GROSS AREA	PIPESTEM AREA	FLOODPLAIN / STEEP SLOPES	NET AREA
46	12,239 #	1,922 #		10,317 #
52	16,956 #	2,285 #		14,671 #
54	9,506 #		19	9,487 #
55	9,711 #		1273	8,438 #
56	9,968 #		1,461	8,507 #
57	8,949 #		182	8,767 #
58	9,960 #		711	9,249 #
59	9,700 #		381	9,319 #

SHEET INDEX

NO.	
1	COVER SHEET
2	SITE DEVELOPMENT PLAN LOTS 54-65 & 43-44
3	SITE DEVELOPMENT PLAN LOTS 45-53
4	SEDIMENT AND EROSION CONTROL PLAN
5	SEDIMENT AND EROSION CONTROL PLAN
6	DETAIL SHEET

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT.
 COUNTY HEALTH OFFICER: [Signature] DATE: 12/8/93

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] DATE: 12/10/93

CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH
 DIRECTOR: [Signature] DATE: 12/16/93

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS.
 DIRECTOR: [Signature] DATE: 12/3/93

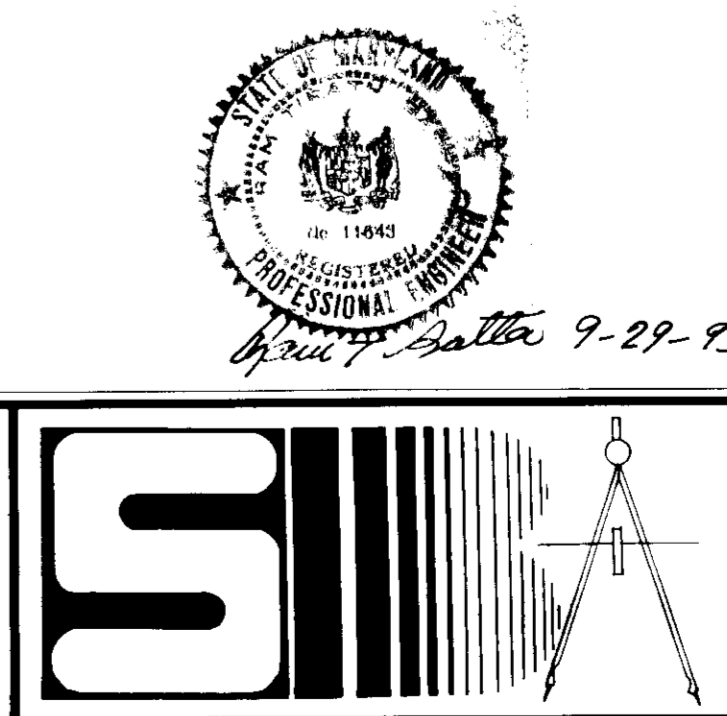
CHIEF BUREAU OF ENGINEERING DATE: 12/13/93

CONTRACT PURCHASER:
 LOVELL REGENCY HOMES LIMITED PARTNERSHIP
 49 OLD SOLOMONS ISLAND RD.
 SUITE #301
 ANNAPOLIS, MD. 21401
 TEL: # 301-221-8220

OWNER:
 MELBOURNE ESTATES
 8950 ROUTE 100
 SUITE #114
 COLUMBIA, MD 21045

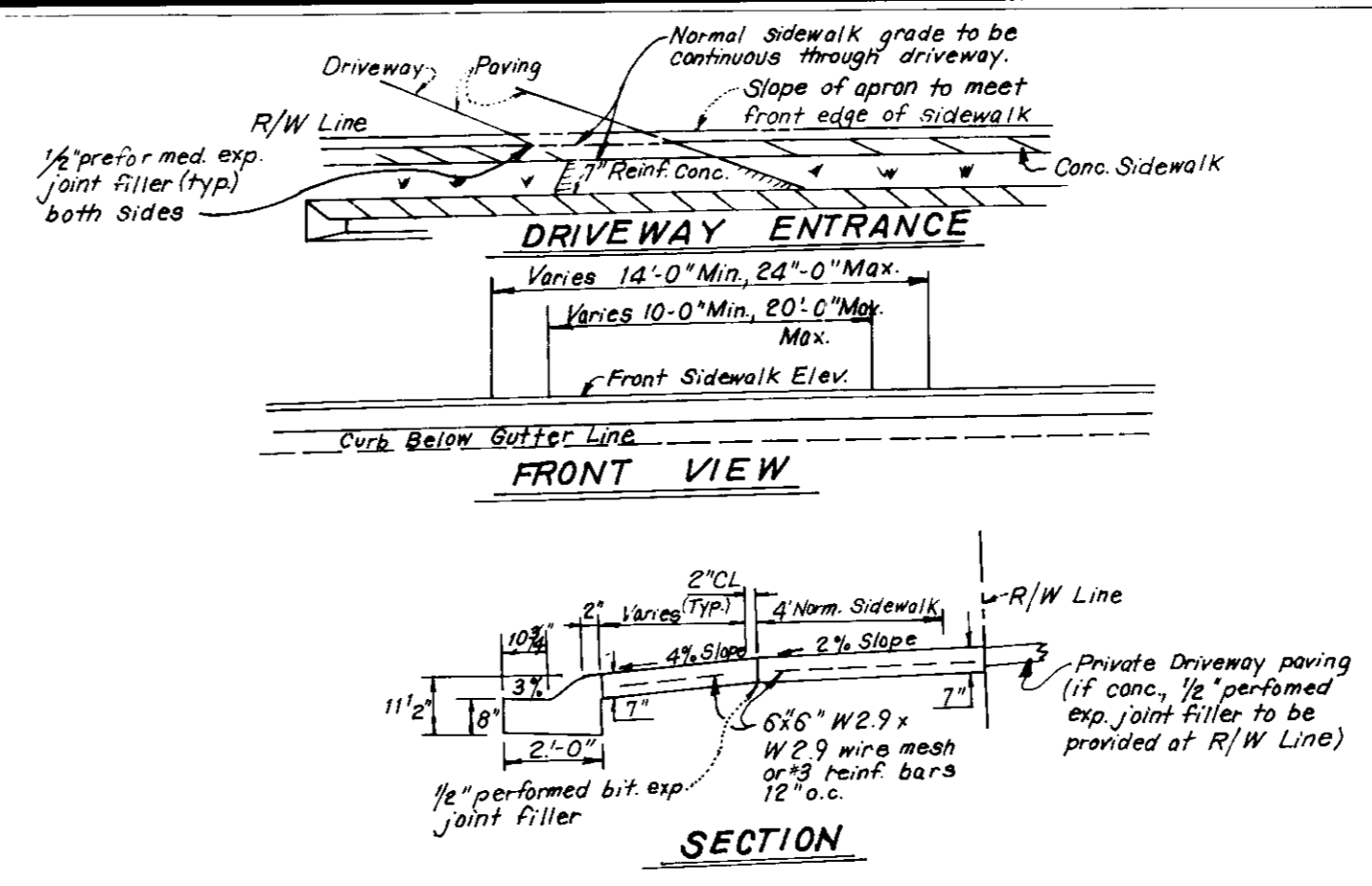
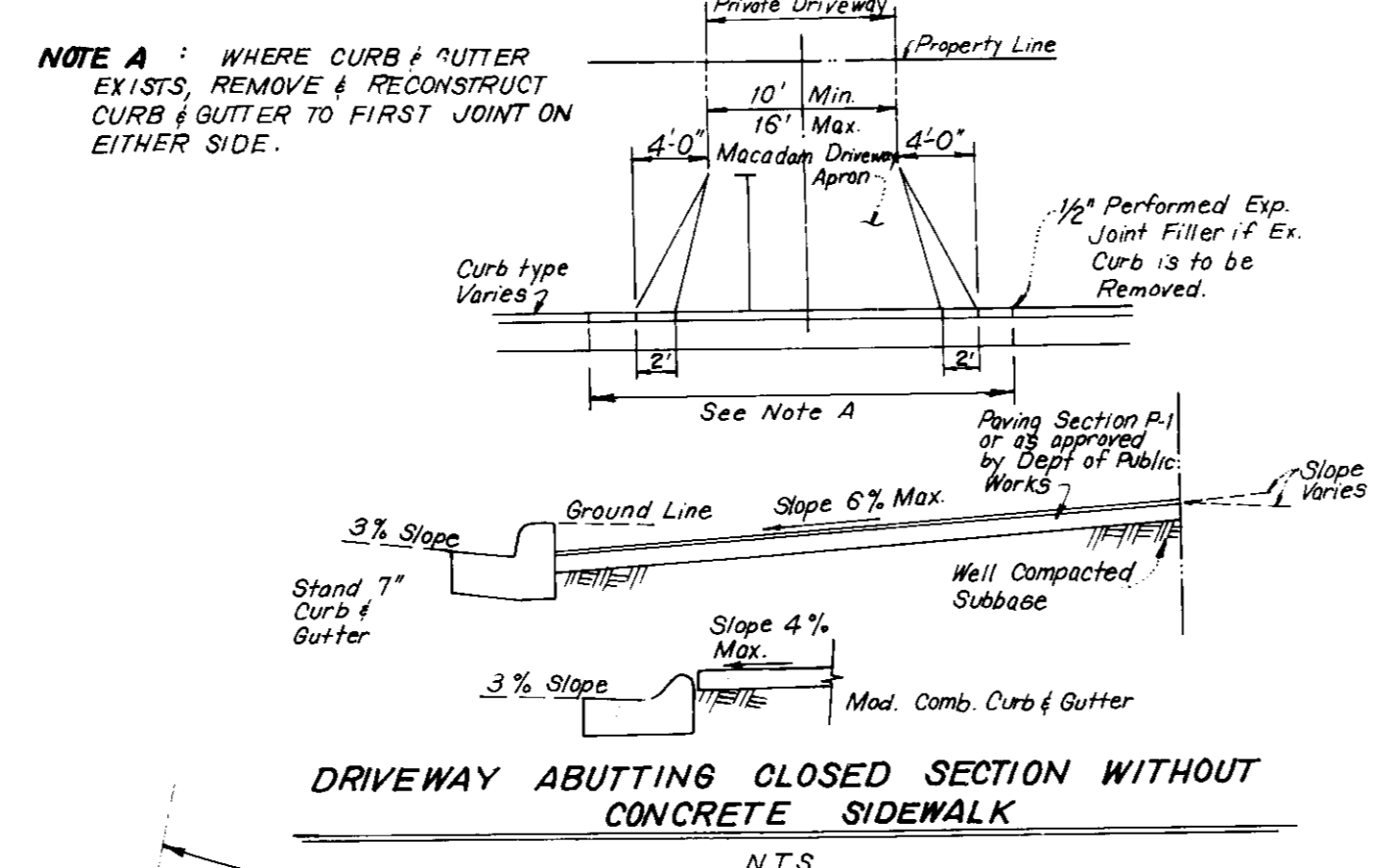
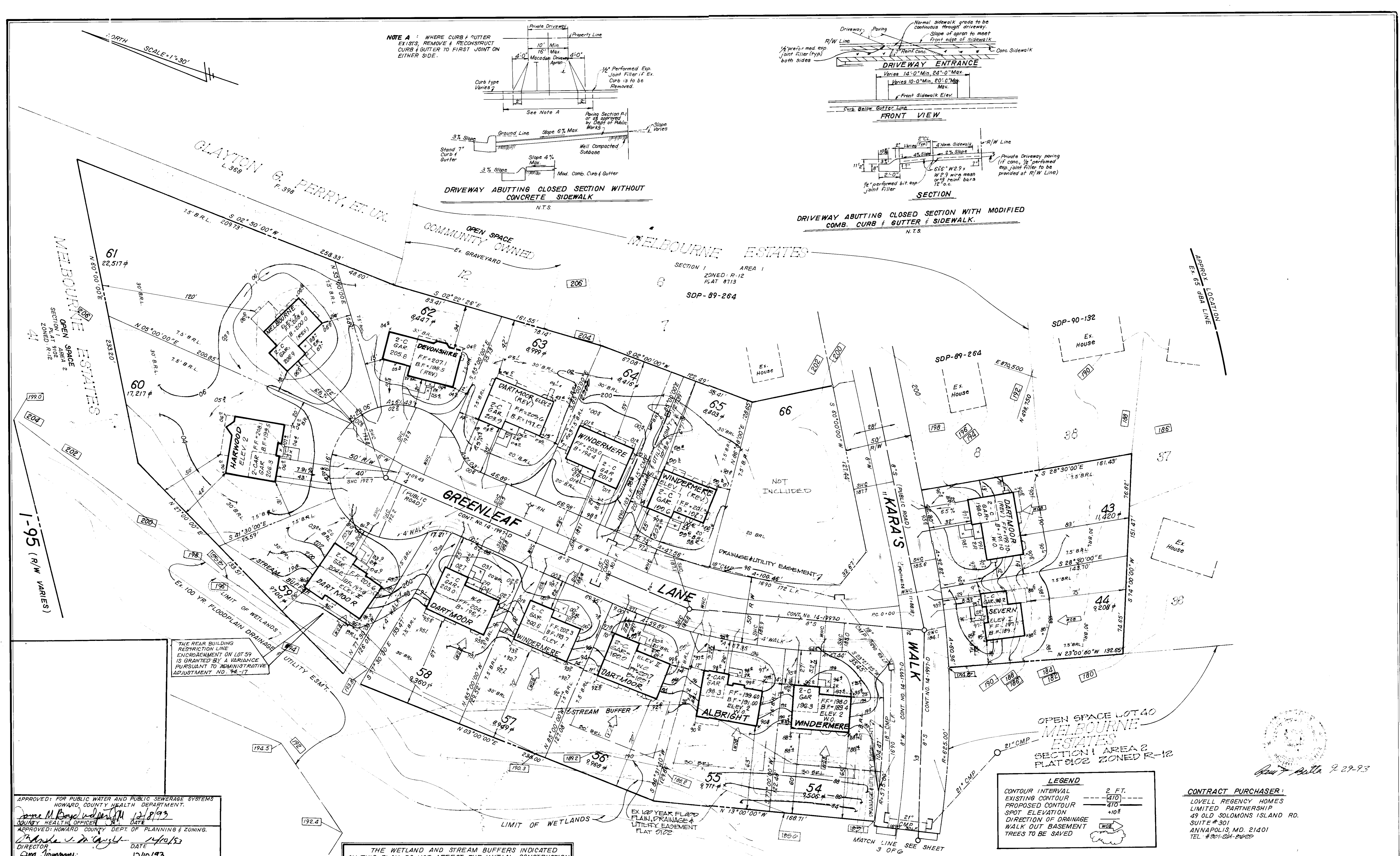
REVISIONS:

SHAFFER BATTA & ASSOC., INC.
 ENGINEERS-LAND PLANNERS-SURVEYORS
 904 WIND RIVER LANE
 GAITHERSBURG, MARYLAND 20878
 (301) 417-0344



COVER SHEET
 LOTS 43-65
MELBOURNE ESTATES
 1ST ELECTION DISTRICT Sec 1 Area 3
 HOWARD COUNTY, MARYLAND

SCALE: AS NOTED
 SHEET: 1 OF 6
 DATE: SEPT., 1993
 DRAWN BY: LEN



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

James M. Bowles 12/8/93
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.

Blanche J. De Groot 12/10/93
DIRECTOR DATE

Gina Johnson 12/10/93
CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

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

James M. Bowles 12/3/93
DIRECTOR DATE

Richard Egan 12/3/93
CHIEF BUREAU OF ENGINEERING DATE

THE WETLAND AND STREAM BUFFERS INDICATED ON THIS PLAN 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 IS PERMITTED.

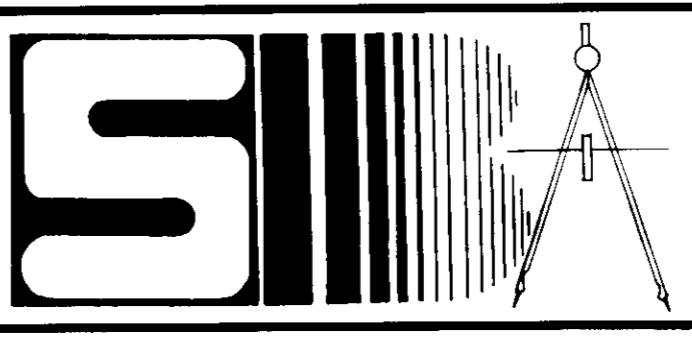
OWNER:
MELBOURNE ESTATES
8750 ROUTE 100
SUITE #114
COLUMBIA, MD. 21045

REVISIONS:

RESISTED LOT 80	4-28-94
RESISTED LOT 61	4-28-94
RESISTED LOT 56	4-28-94
RESISTED LOT 44	6-20-94
RESISTED LOT 59	6-20-94
RESISTED LOT 57	8-16-94
RESISTED LOT 57	9-16-94
RESISTED LOT 61	9-16-94
RESISTED LOT 54	5-13-95
RESISTED LOT 60	8-21-95

SHAFFER BATTA & ASSOC., INC.
ENGINEERS-LAND PLANNERS-SURVEYORS

904 WIND RIVER LANE
GAITHERSBURG, MARYLAND 20878
(301) 417-0344



SITE DEVELOPMENT PLAN
LOTS 43-55

MELBOURNE ESTATES
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

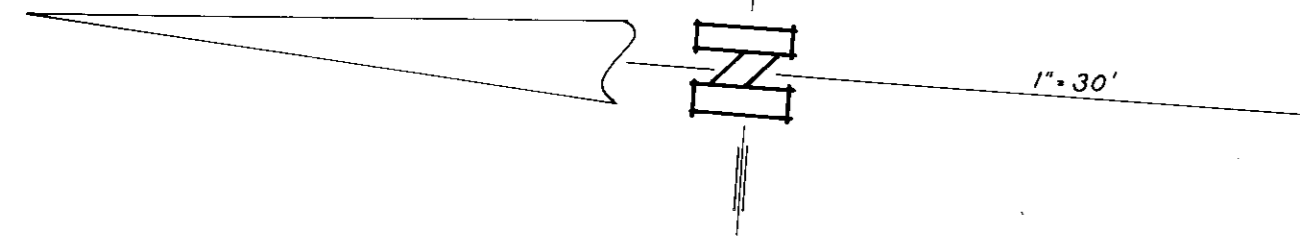
SCALE: 1"=30'
SHEET: 2 OF 6
DATE: SEPT, 1993
DRAWN BY: LEN

LEGEND

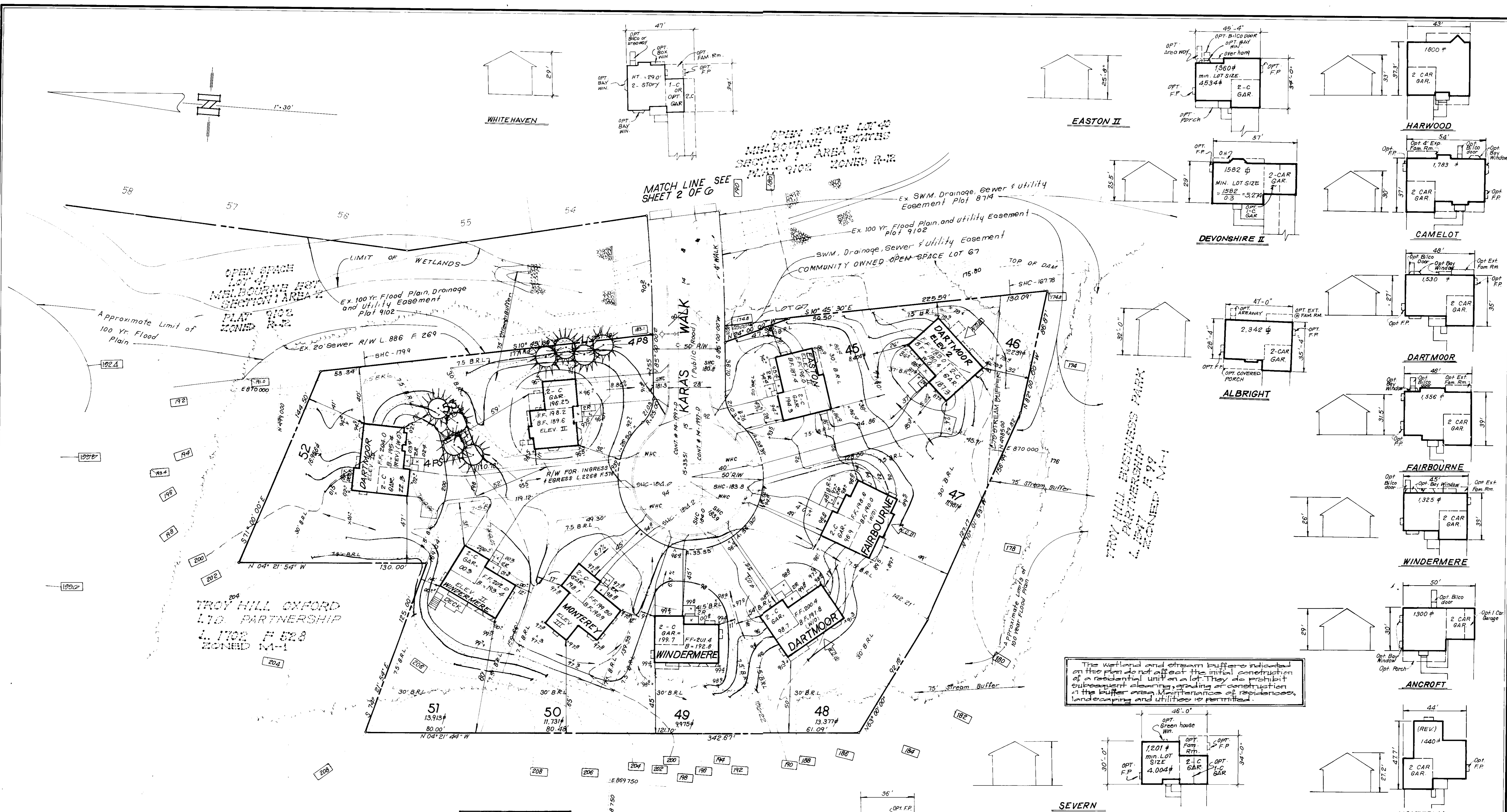
CONTOUR INTERVAL	2 FT.
EXISTING CONTOUR	--- 410 ---
PROPOSED CONTOUR	--- 410 ---
SPOT ELEVATION	+105
DIRECTION OF DRAINAGE	---
WALK OUT BASEMENT	---
TREES TO BE SAVED	---

CONTRACT PURCHASER:
LOVELL REGENCY HOMES
LIMITED PARTNERSHIP
49 OLD SOLOMONS ISLAND RD.
SUITE # 301
ANNAPOLIS, MD. 21401
TEL # 201-281-2425

9/29/93
Shaffer Batta



OPEN SPACE LOT 46
MELBOURNE ESTATES
SECTION 1 AREA 2
PLAN 9102 ZONED R-1C



The wetland and stream buffers indicated on this plan 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 riparian areas, landscaping and utilities is permitted.

TROY HILL BUSINESS PARK
L. 1708 F. 528
ZONED M-1

TROY HILL OXFORD LTD PARTNERSHIP
L. 1708 F. 528
ZONED M-1

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT.
[Signature] 12/8/93
COUNTY HEALTH OFFICER (NOV)
DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING.
[Signature] 12/10/93
PLANNING DIRECTOR
DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS.
[Signature] 12/10/93
DIRECTOR
DATE

REQUIRED LOT 53 8-16-94
9/14/94 RESITED LOT 46

LOT#	MIN. CELLAR ELEV.
43	189.0
44	187.5
45	184.6
46	172.4
47	187.4
48	187.6
49	187.6
50	186.2
51	189.2
52	183.9
53	183.1
54	188.8
55	189.5
56	190.2
57	192.0
58	193.4
59	195.4
60	196.5
61	196.6
62	193.4
63	193.9
64	192.7
65	190.7
66	191.1
67	OPEN SPACE

CONTRACT PURCHASER:
LOVELL REGENCY HOMES LIMITED PARTNERSHIP
49 OLD SOLOMONS ISLAND RD SUITE #301
ANNA POLIS MD 21401
TEL: 301-281-5200

OWNER/DEVELOPER:
Melbourne Estates
8150 Route 100 - Suite 114
Columbia, MD 21045

REVISIONS:
REV. LOT 50 2/4/94
REV. LOT 53 & 6 ADDED
HOUSE TYPES 3-17-94
RESITED LOT 52 4-28-94
RESITED LOT 51 4-28-94
RESITED LOT 53 & 26-94
RESITED LOT 45 8-2-94

SHAFFER BATTA & ASSOC., INC.
ENGINEERS-LAND PLANNERS-SURVEYORS
904 WIND RIVER LANE
GAITHERSBURG, MARYLAND 20878
(301) 417-0344

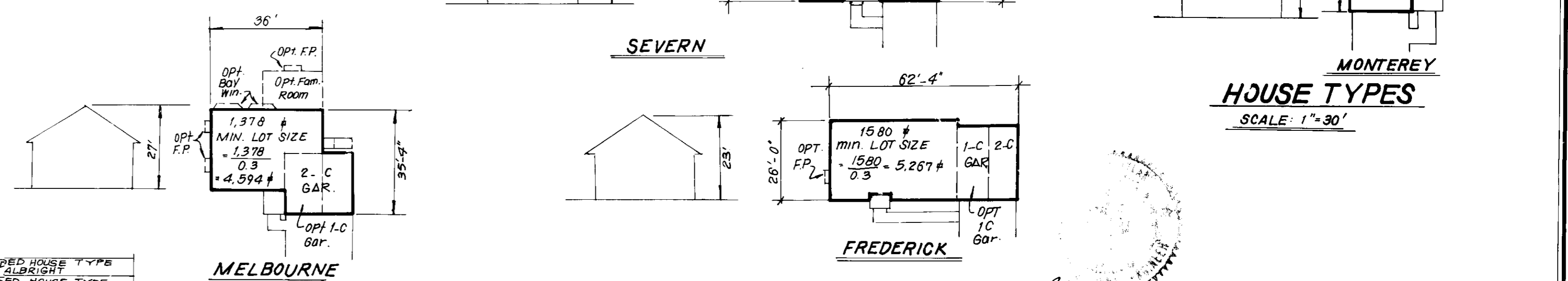


SITE DEVELOPMENT PLAN
LOTS 43-65
MELBOURNE ESTATES
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 30'
SHEET: 3 OF 6
DATE: SEPT. 1993
DRAWN BY: D. NAMAZI

[Signature] 9-29-93

HOUSE TYPES
SCALE: 1" = 30'



NORTH
SCALE=1"=30'

LEGEND

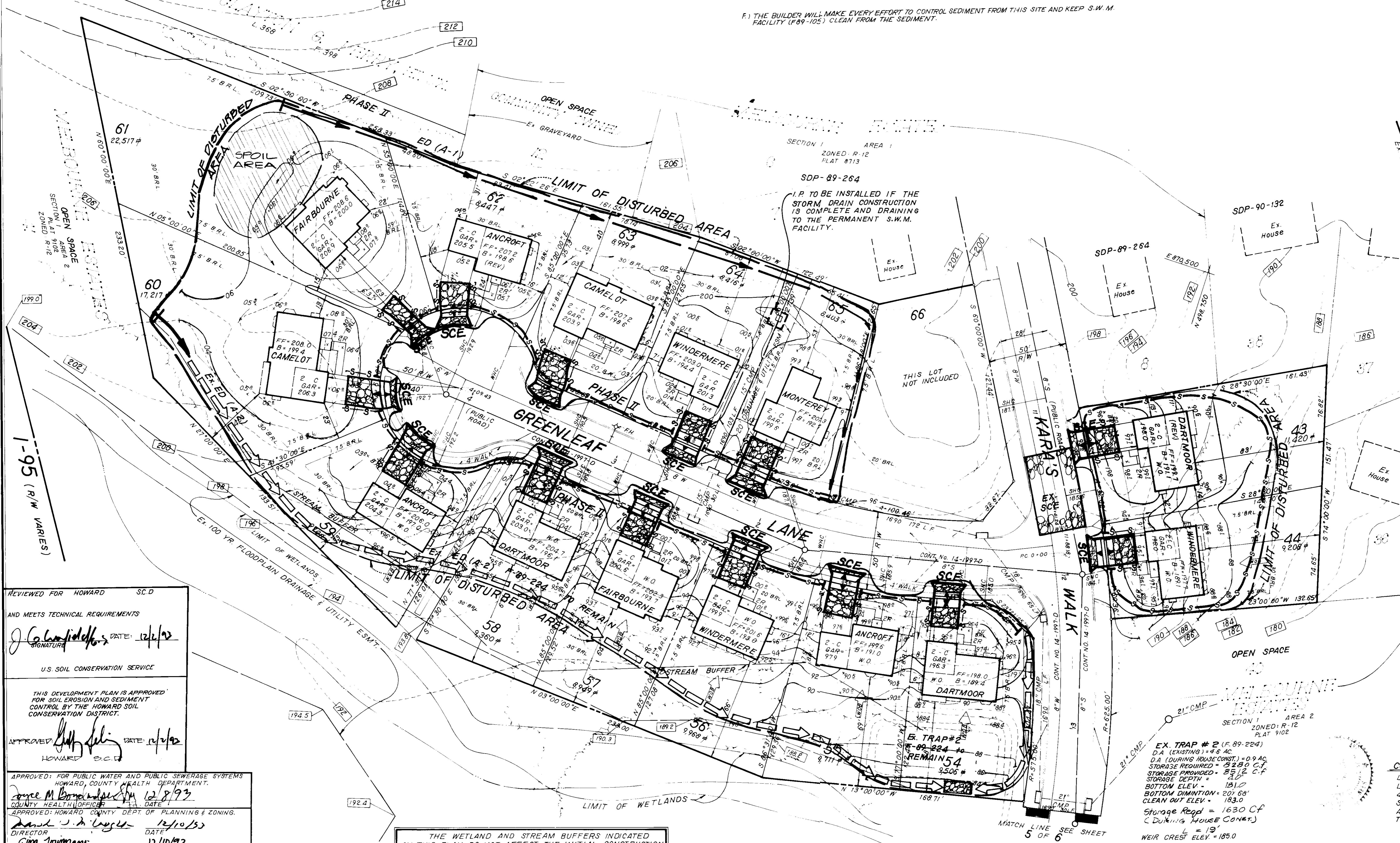
CONTOUR INTERVAL	2 FT.
EXISTING CONTOUR	410
PROPOSED CONTOUR	410
SPOT ELEVATION	+10.5
DIRECTION OF DRAINAGE	→
WALK OUT BASEMENT	→
TREES TO BE SAVED	→
SILT FENCE	→
EXISTING SILT FENCE	→
EARTH DIKE	→
EXISTING EARTH DIKE	→
STABILIZED CONSTRUCTION ENTRANCE	→ SCE

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 CONTROL DEVICES AND INSTALL ADDITIONAL CONTROLS AS SHOWN	5
* B) EXCAVATE FOR FOUNDATIONS, ROUGH GRADING, AND TEMPORARILY STABILIZE	30
C) CONSTRUCT STRUCTURES, SIDEWALKS AND DRIVEWAYS	200
D) FINAL GRADE AND STABILIZE IN ACCORDANCE WITH STD'S AND SPECS.	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.
- * DELAY CONSTRUCTION OF HOUSES ON LOT 54 UNTIL PERMISSION IS GIVEN BY SEDIMENT CONTROL DIVISION.
- F) THE BUILDER WILL MAKE EVERY EFFORT TO CONTROL SEDIMENT FROM THIS SITE AND KEEP S.W.M. FACILITY (P89-105) CLEAN FROM THE SEDIMENT.



BUILDER/ DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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 OF DEVELOPER/
BUILDER

DATE

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

RAM T. BATT A
REGISTERED PROFESSIONAL ENGINEER
MARYLAND NO. 11643

DATE
9-29-93

CONTRACT PURCHASER:
LOVELL REGENCY HOMES
LIMITED PARTNERSHIP
49 OLD SOLOMONS ISLAND RD.
SUITE # 301
ANNAPOLIS, MD. 21401
TEL: #301-261-8525

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
DATE: 12/2/92

SIGNATURE
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
DATE: 12/2/92

HOWARD S.C.D.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.
DATE: 12/8/93

COUNTY HEALTH OFFICER

APPROVED FOR HOWARD COUNTY DEPT. OF PLANNING & ZONING.
DATE: 12/10/93

DIRECTOR

CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE DEVELOPMENT AND PUBLIC ROADS
DATE: 12/10/93

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 12/13/93

DATE: 12/13/93

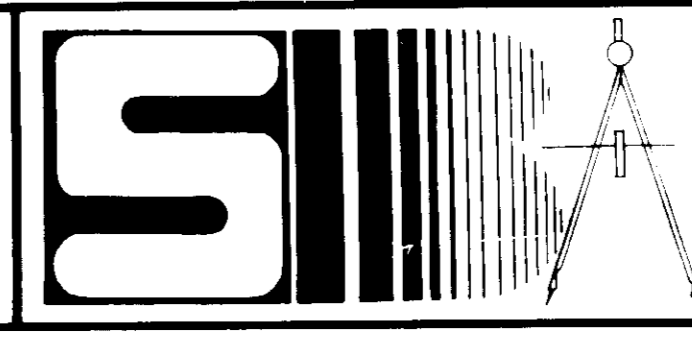
CHIEF BUREAU OF ENGINEERING

THE WETLAND AND STREAM BUFFERS INDICATED ON THIS PLAN 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 IS PERMITTED.

OWNER:
MELBOURNE ESTATES
8350 ROUTE 100
SUITE #114
COLUMBIA, M.D. 21045

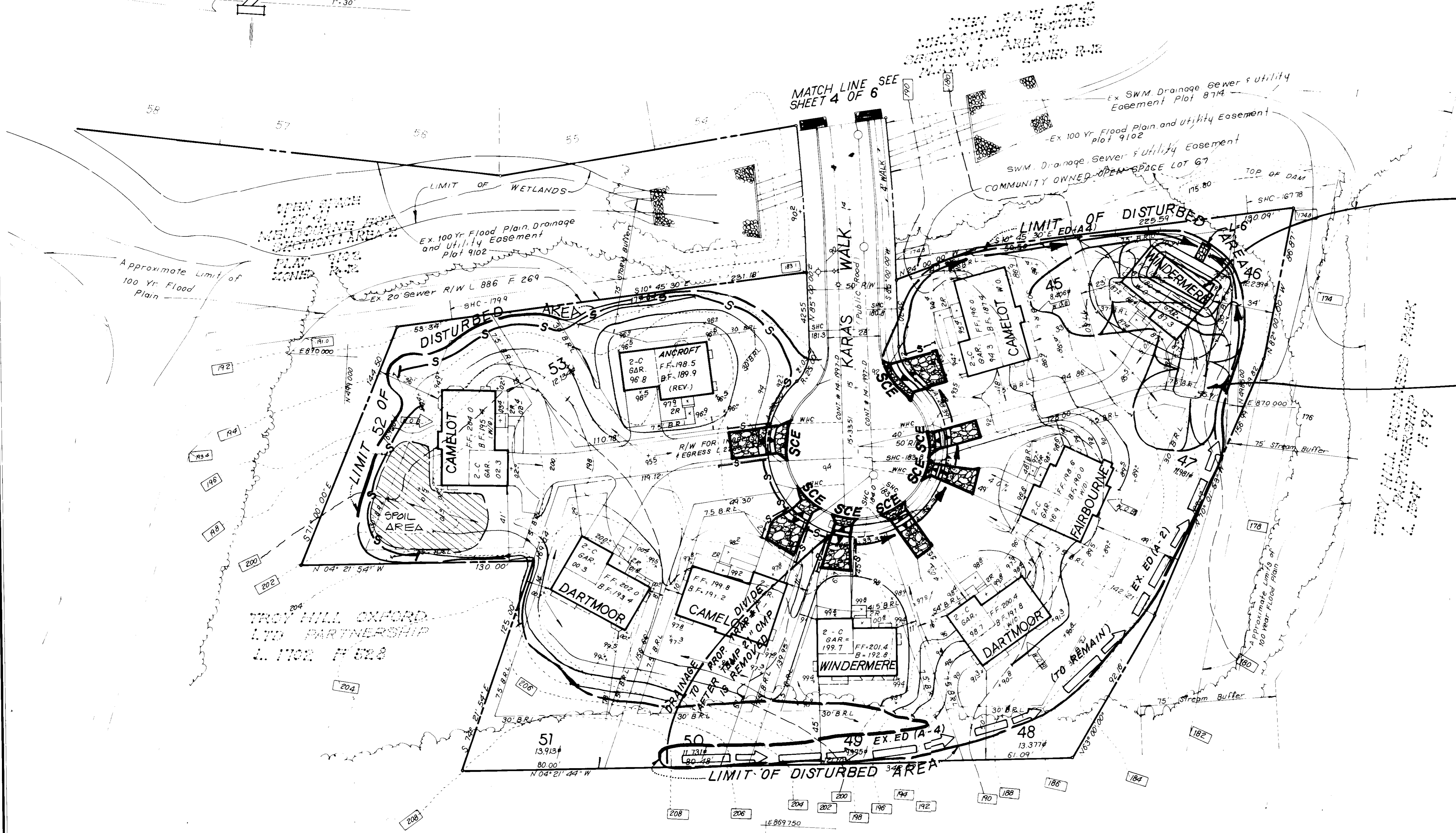
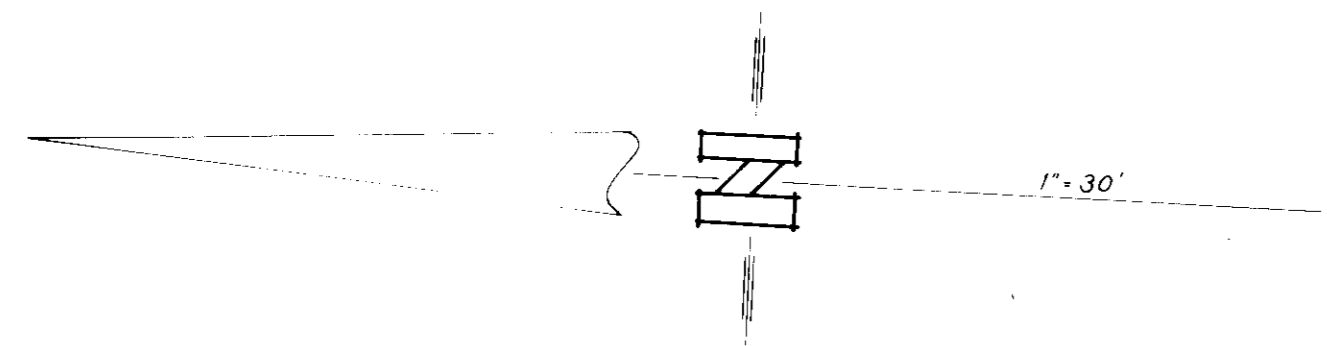
REVISIONS:

SHAFFER BATT & ASSOC., INC.
ENGINEERS-LAND PLANNERS-SURVEYORS
904 WIND RIVER LANE
GAITHERSBURG, MARYLAND 20878
(301) 417-0344



SEDIMENT AND EROSION CONTROL PLAN
LOTS 43-65
MELBOURNE ESTATES
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1"=30'
SHEET: 4 OF 6
DATE: SEPT, 1993
DRAWN BY: LEN



**PHASE II
PROP TRAP#1 S.O.S.T. ST-IV**
 DA = 1.35 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 DIMENSION = 34' x 14'
 L = 6'
 2:1 SIDE SLOPES

NOTE:
 EXISTING TRAP#1, AS PER F-89-224, TO REMAIN UNTIL STORM DRAINAGE CONSTRUCTION IS COMPLETED AND TEMP 21" CMP DIVERSION HAS BEEN REMOVED. ONCE EXISTING TRAP#1 F-89-224 IS REMOVED AND AREA IS STABILIZED, EX. TRAP #1 MAY BE REDUCED AS SHOWN ON PHASE II, TRAP#1.

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

[Signature]
 SIGNATURE OF DEVELOPER / BUILDER 9/29/93
 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]
 REGISTERED PROFESSIONAL ENGINEER
 MARYLAND No. 11643 9-29-93
 DATE



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPT.
[Signature] 12/8/93
 COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY DEPT OF PLANNING & ZONING.
[Signature] 12/10/93
 PLANNING DIRECTOR DATE

CHIEF DIVISION OF LAND DEVELOPMENT AND RESEARCH
[Signature] 12/10/93
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPT. OF PUBLIC WORKS.
[Signature] 12/8/93
 DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING
[Signature] 12/13/93
 DATE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS
[Signature] DATE: 12/2/93
 U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] DATE: 12/2/93
 HOWARD SCD

LOT#	MIN. CELLAR ELEV.
43	189.0
44	187.5
45	184.6
46	172.4
47	187.4
48	187.0
49	187.6
50	186.2
51	189.2
52	183.9
53	185.1
54	188.8
55	189.5
56	190.2
57	192.0
58	193.4
59	193.4
60	196.6
61	196.6
62	196.3
63	193.4
64	192.7
65	190.7
66	191
67	191
68	191
69	191
70	191
71	191
72	191
73	191
74	191
75	191
76	191
77	191
78	191
79	191
80	191
81	191
82	191
83	191
84	191
85	191
86	191
87	191
88	191
89	191
90	191
91	191
92	191
93	191
94	191
95	191
96	191
97	191
98	191
99	191
100	191
101	191
102	191
103	191
104	191
105	191
106	191
107	191
108	191
109	191
110	191
111	191
112	191
113	191
114	191
115	191
116	191
117	191
118	191
119	191
120	191
121	191
122	191
123	191
124	191
125	191
126	191
127	191
128	191
129	191
130	191
131	191
132	191
133	191
134	191
135	191
136	191
137	191
138	191
139	191
140	191
141	191
142	191
143	191
144	191
145	191
146	191
147	191
148	191
149	191
150	191
151	191
152	191
153	191
154	191
155	191
156	191
157	191
158	191
159	191
160	191
161	191
162	191
163	191
164	191
165	191
166	191
167	191
168	191
169	191
170	191
171	191
172	191
173	191
174	191
175	191
176	191
177	191
178	191
179	191
180	191
181	191
182	191
183	191
184	191
185	191
186	191
187	191
188	191
189	191
190	191
191	191
192	191
193	191
194	191
195	191
196	191
197	191
198	191
199	191
200	191
201	191
202	191
203	191
204	191
205	191
206	191
207	191
208	191
209	191
210	191
211	191
212	191
213	191
214	191
215	191
216	191
217	191
218	191
219	191
220	191
221	191
222	191
223	191
224	191
225	191
226	191
227	191
228	191
229	191
230	191
231	191
232	191
233	191
234	191
235	191
236	191
237	191
238	191
239	191
240	191
241	191
242	191
243	191
244	191
245	191
246	191
247	191
248	191
249	191
250	191
251	191
252	191
253	191
254	191
255	191
256	191
257	191
258	191
259	191
260	191
261	191
262	191
263	191
264	191
265	191
266	191
267	191
268	191
269	191
270	191
271	191
272	191
273	191
274	191
275	191
276	191
277	191
278	191
279	191
280	191
281	191
282	191
283	191
284	191
285	191
286	191
287	191
288	191
289	191
290	191
291	191
292	191
293	191
294	191
295	191
296	191
297	191
298	191
299	191
300	191

CONTRACT PURCHASER:
 LOVELL REGENCY HOMES LIMITED PARTNERSHIP
 49 OLD SOLOMONS ISLAND RD.
 SUITE #301
 ANNA POLIS, MD. 21401
 TEL #301-281-0025

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

REVISIONS:

SHAFFER BATT & ASSOC., INC.
 ENGINEERS-LAND PLANNERS-SURVEYORS
 904 WIND RIVER LANE
 GAITHERSBURG, MARYLAND 20878
 (301) 417-0344



SEDIMENT AND EROSION CONTROL PLAN
 LOTS 43-65
MELBOURNE ESTATES
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: 1" = 30'
 SHEET: 5 of 6
 DATE: SEPT 1993
 DRAWN BY: D. NAMAZI

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, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following: 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding...

Seeding: For the periods March 1 thru April 30, and August 1 thru October 31, seed with 50 lbs per acre (14 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 1 lb per acre (.05 lbs/1000 sq ft) of weeping lovegrass.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated animal straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt...

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

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

Seedbed 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 1 thru November 31, seed with 25 bushels per acre of annual ryegrass (32 lbs/1000 sq ft)...

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated animal straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt...

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

SEEDING NOTES

1. A minimum of 24 hours notice must be given to the inspector for the start of any distribution of seed. 2. All vegetative and structural stabilization shall be completed within 30 calendar days for permanent seedings and 60 days for temporary seedings...

3. Following initial soil disturbance, if stabilization is permanent or temporary stabilization shall be completed within 30 calendar days for permanent seedings and 60 days for temporary seedings...

4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with 1983 Chapter 27, 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 operating 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 roofed or paved 1.61 Acres, Area to be vegetatively stabilized 3.42 Acres, Total Cut 64.10, Total Fill 17.00, Offsite waste/borrow area location as indicated on site plan.

8. Any sediment control practice which is interrupted or inactive activity for placement of utilities may be required to be removed some day of disturbance.

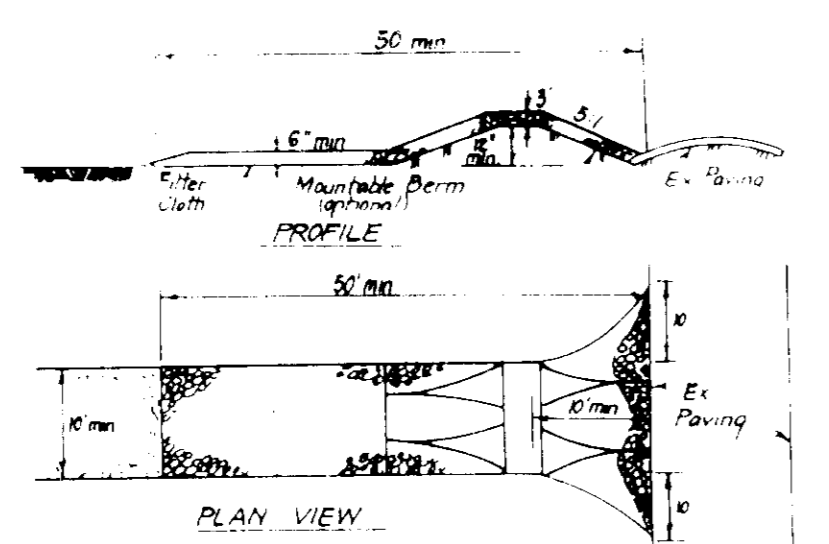
9. Additional sediment control must be provided, if deemed necessary by the Howard County SEM Sediment Control Inspector.

10. On all sites with disturbed areas in excess of 1/4 acre, approval of the inspection agency shall be required upon completion of installation of permanent erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be addressed until this initial approval by the inspection agency is made.

11. If houses are to be constructed on a "backfill" area, the random, strip soil sediment control at same shall be implemented.

12. All pipes to be located in the next 100 feet of the project area shall be marked with N/A.

13. The final plan shall be submitted to the inspector for approval.



- CONSTRUCTION SPECIFICATIONS: 1. Stone size: Use 2" stone or equivalent in rounded concrete equivalent. 2. Length: As required, but not less than 30" and not more than 36" in length. 3. Thickness: Not less than 6" in thickness. 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 cloth will be required on a single family residence lot.

STABILIZED CONSTRUCTION ENTRANCE SEE NO SCALE

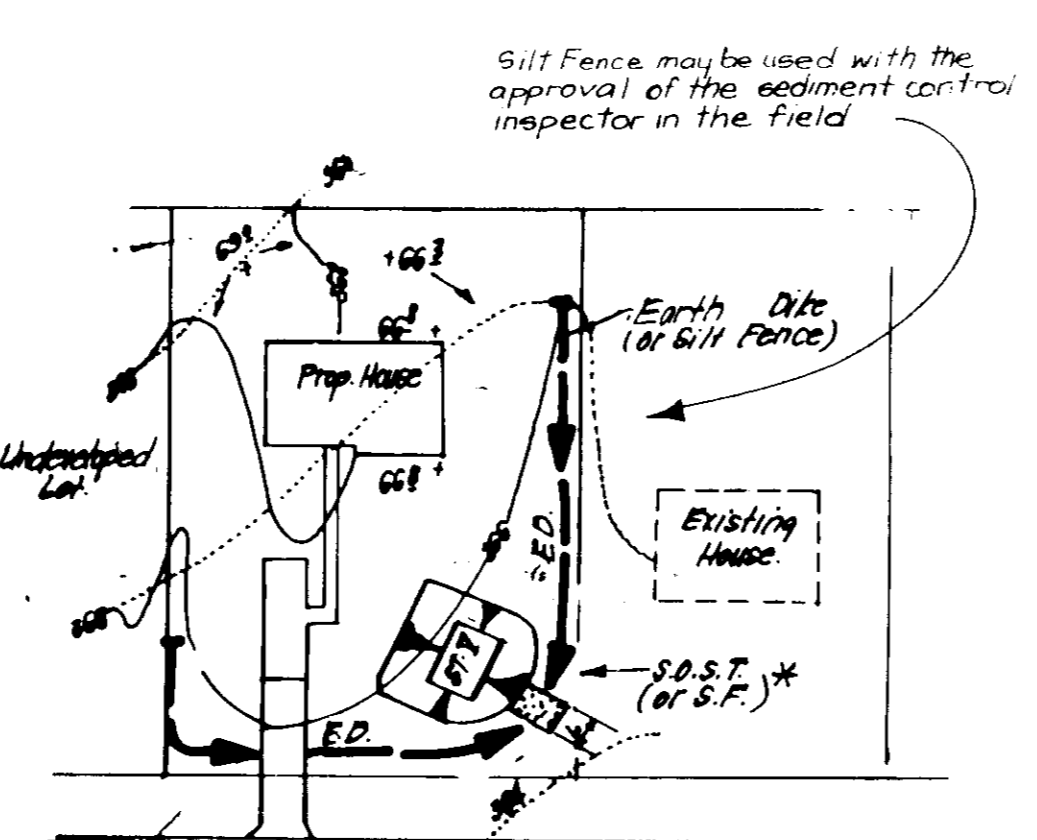
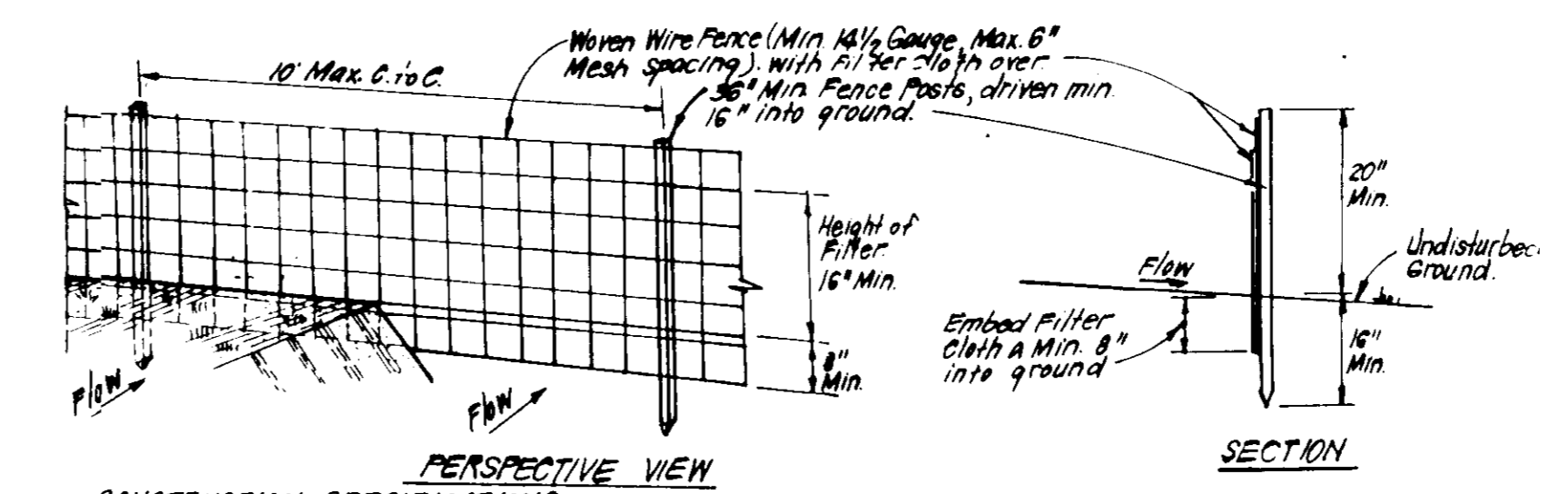


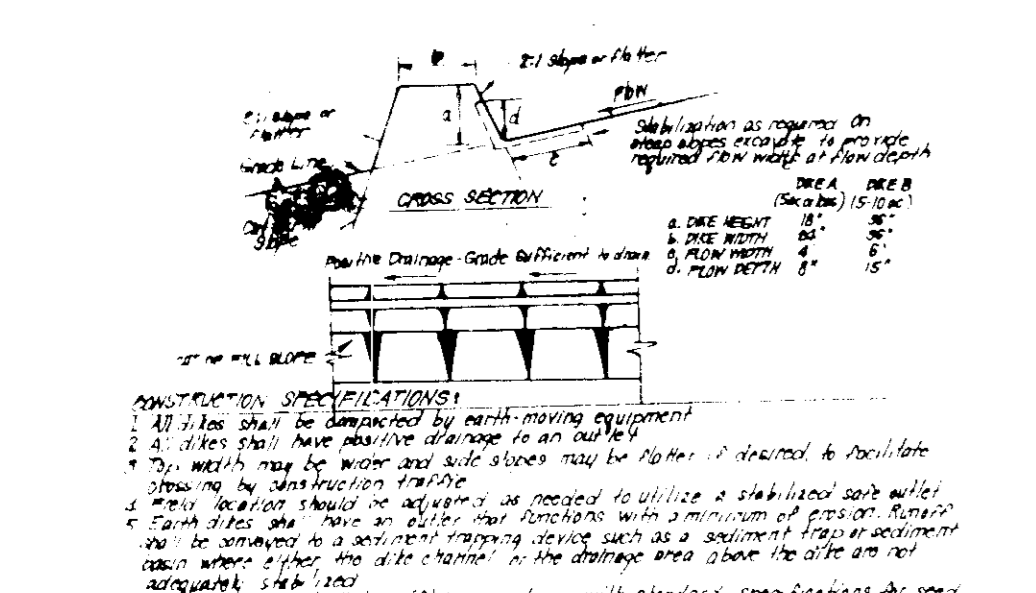
Table with 4 columns: H.S.O.S.T. (S.P.V.), AREA, PERCENT, and TOTAL. It lists various materials and their quantities for a single lot sediment control plan.

SINGLE LOT SEDIMENT CONTROL PLAN NO SCALE



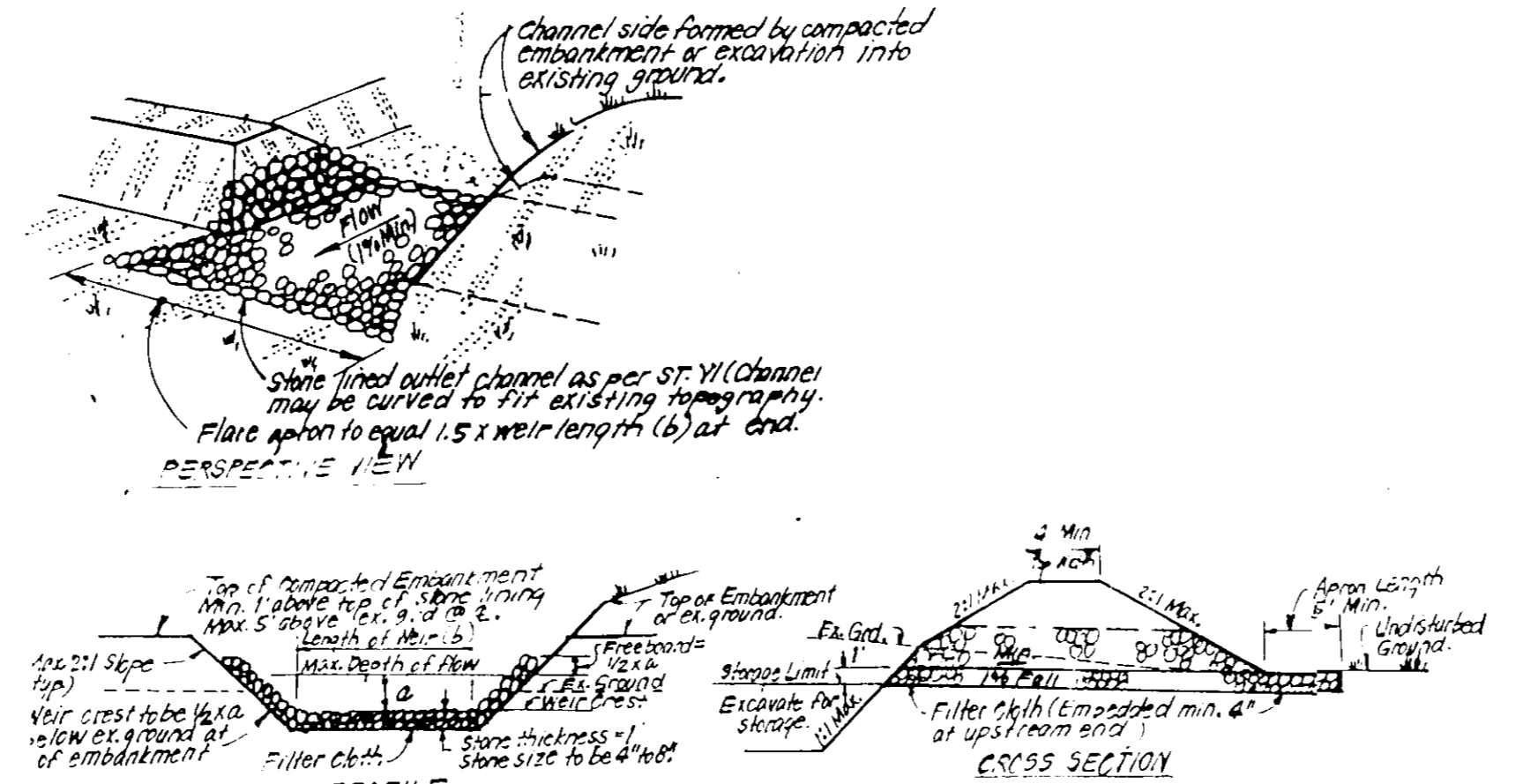
- CONSTRUCTION SPECIFICATIONS: 1. Woven wire fence to be fastened securely to fence posts with wire ties or staples. 2. Filter cloth to be fastened securely to woven wire fence with wire ties spaced every 24" at top and mid sections. 3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded. 4. Maintenance shall be performed as needed and material removed when "bulges" develop in silt fence.

SILT FENCE DETAIL (S) NO SCALE



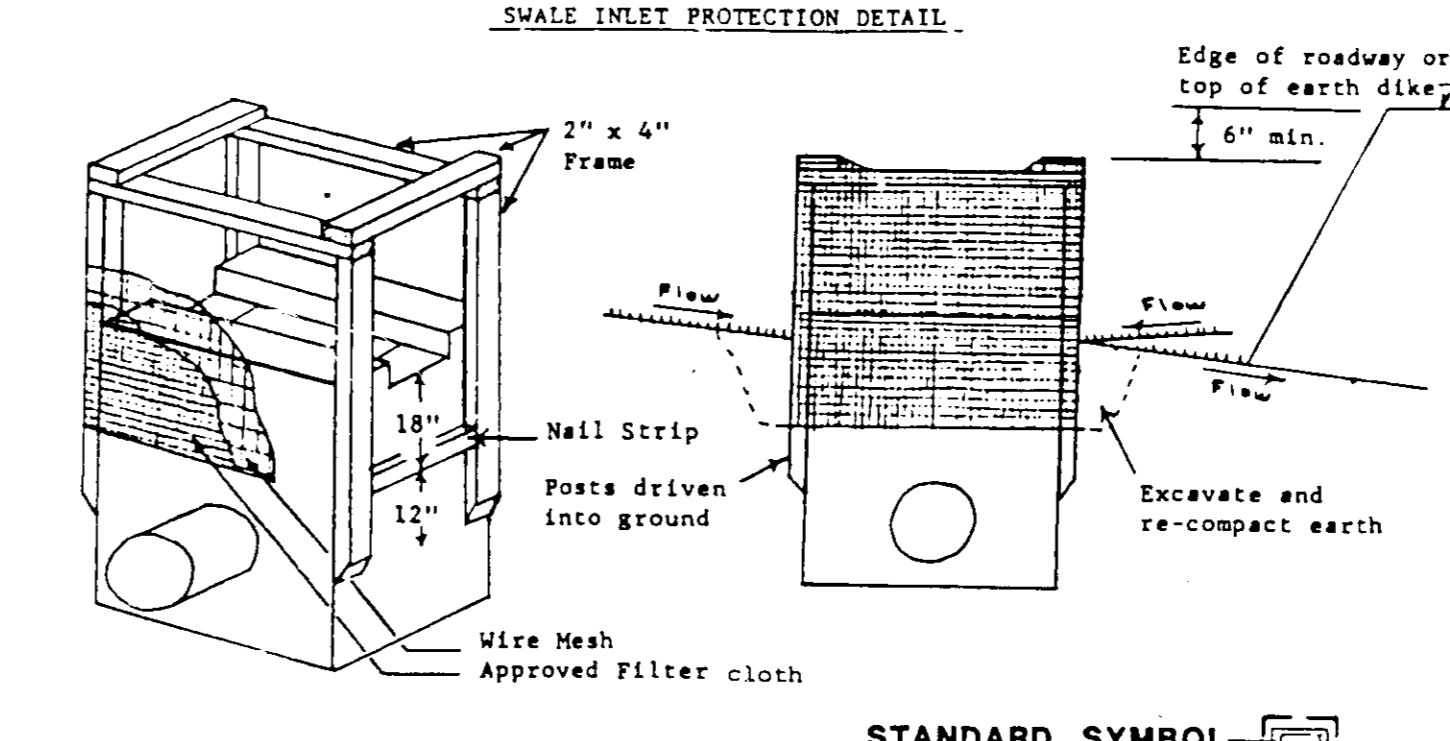
- CONSTRUCTION SPECIFICATIONS: 1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared. 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material.

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



- CONSTRUCTION SPECIFICATIONS: 1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared. 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material.

RIPRAP OUTLET SEDIMENT TRAP - ST-VI NO SCALE



STANDARD SYMBOL

- CONSTRUCTION SPECIFICATIONS: I. MATERIALS: A. Wooden frame 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, E-35, 40-85, 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.

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

Signature of Developer/Builder: [Signature] DATE: 9/29/93

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.

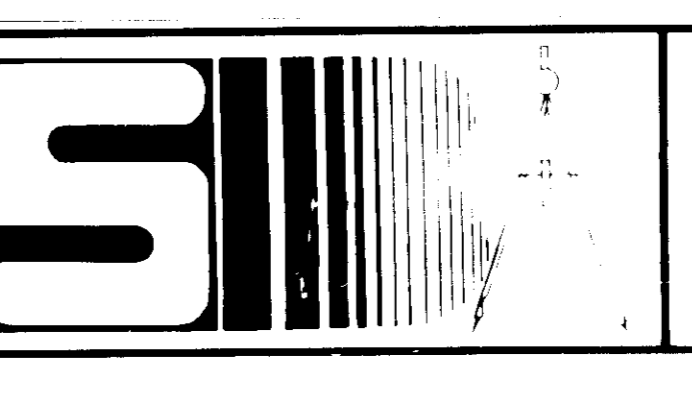
Signature of Engineer: [Signature] DATE: 9-29-93

APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. Approved by: Joyce M. Boyd, Date: 12/8/93; Denise J. Keay, Date: 12/10/93; Gina Simmons, Date: 12/10/93; [Signature], Date: 12/3/93.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. Approved by: [Signature], DATE: 12/1/93; [Signature], DATE: 12/1/93; [Signature], DATE: 12/1/93.

OWNER: MELBOURNE ESTATES, 8850 ROUTE 100, SUITE #114, COLUMBIA, MD. 21045. CONTRACT PURCHASER: LOVELL REGENCY HOMES LIMITED PARTNERSHIP, 49 OLD SOLOMONS ISLAND RD., SUITE #301, ANNAPOLIS, MD. 21401, TEL: 410-261-8625.

SHAFER BATT & ASSOC., INC. ENGINEERS-LAND PLANNERS-SURVEYORS. 904 WIND RIVER LANE, GAITHERSBURG, MARYLAND 20878, (301) 417-0344.



MELBOURNE ESTATES, 151 ELECTION ROAD, HOWARD COUNTY, MD. 21041. Sec 1, Aca 3. 6 6