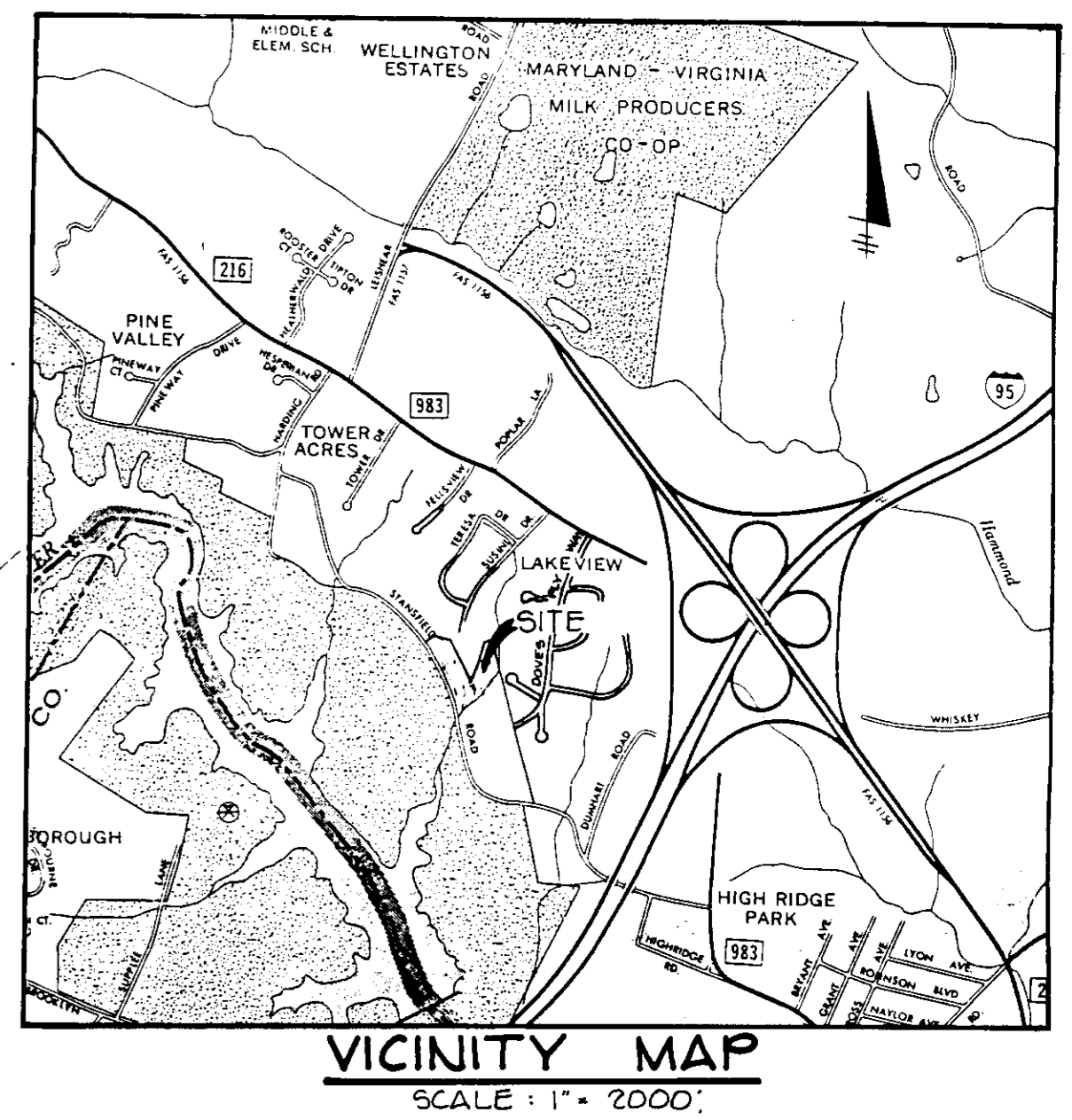
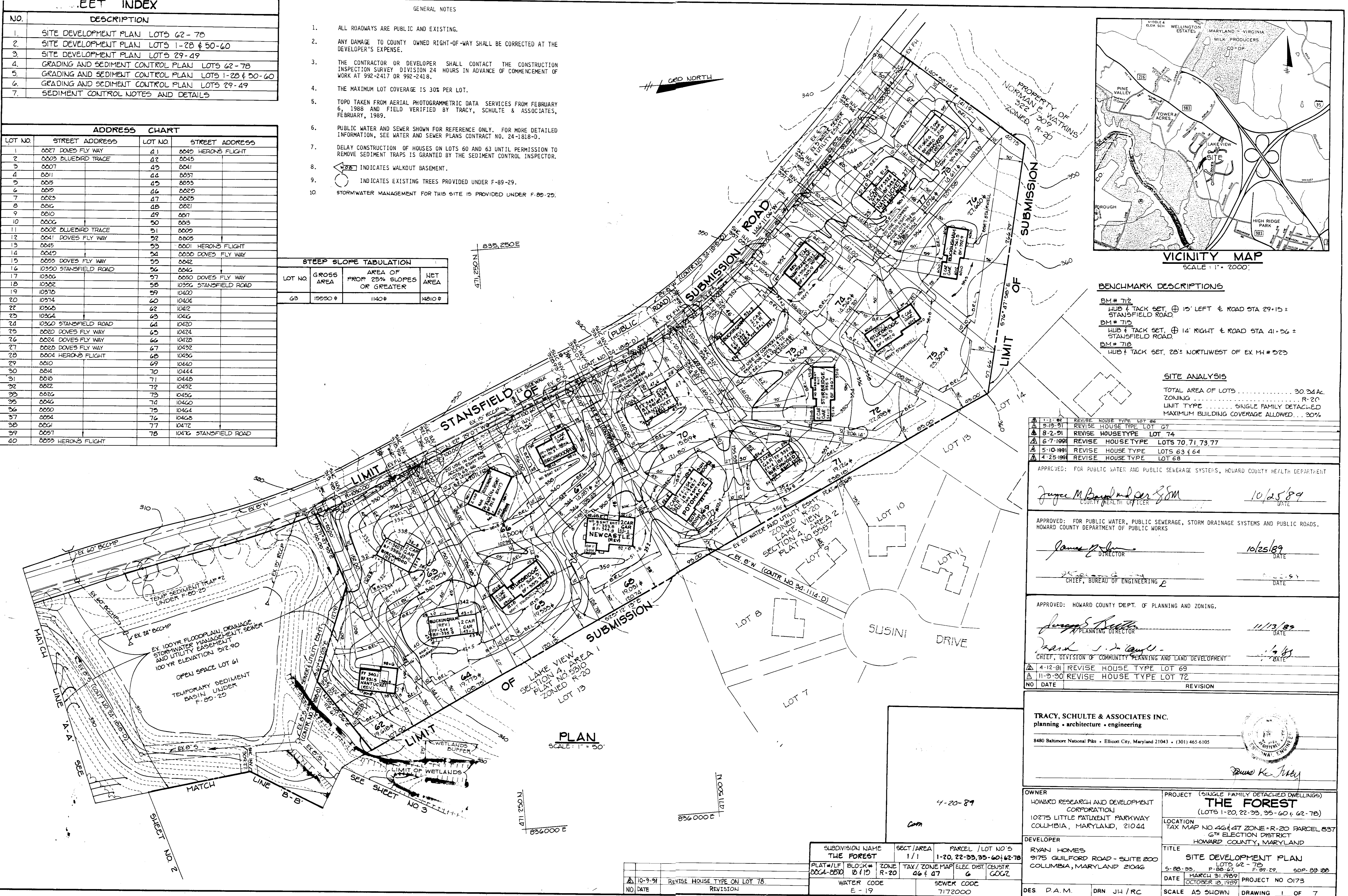


NO.	DESCRIPTION
1.	SITE DEVELOPMENT PLAN LOTS 62-78
2.	SITE DEVELOPMENT PLAN LOTS 1-28 & 50-60
3.	SITE DEVELOPMENT PLAN LOTS 29-49
4.	GRADING AND SEDIMENT CONTROL PLAN LOTS 62-78
5.	GRADING AND SEDIMENT CONTROL PLAN LOTS 1-28 & 50-60
6.	GRADING AND SEDIMENT CONTROL PLAN LOTS 29-49
7.	SEDIMENT CONTROL NOTES AND DETAILS

ADDRESS CHART			
LOT NO.	STREET ADDRESS	LOT NO.	STREET ADDRESS
1	0027 DOVES FLY WAY	41	0049 HERONS FLIGHT
2	0003 BLUEBIRD TRACE	42	0045
3	0007	43	0041
4	0011	44	0037
5	0015	45	0033
6	0019	46	0029
7	0023	47	0025
8	0027	48	0021
9	0031	49	0017
10	0035	50	0013
11	0002 BLUEBIRD TRACE	51	0009
12	0041 DOVES FLY WAY	52	0005
13	0045	53	0001 HERONS FLIGHT
14	0049	54	0030 DOVES FLY WAY
15	0053 DOVES FLY WAY	55	0042
16	10320 STANSFIELD ROAD	56	0046
17	10326	57	0050 DOVES FLY WAY
18	10332	58	10326 STANSFIELD ROAD
19	10338	59	10400
20	10344	60	10404
21	10350	61	10410
22	10356	62	10416
23	10362	63	10422
24	10368	64	10428
25	10374	65	10434
26	10380	66	10440
27	10386	67	10446
28	10392	68	10452
29	10398	69	10458
30	10404	70	10464
31	10410	71	10470
32	10416	72	10476
33	10422	73	10482
34	10428	74	10488
35	10434	75	10494
36	10440	76	10500
37	10446	77	10506
38	10452	78	10512
39	10458		
40	10464		

STEEP SLOPE TABULATION			
LOT NO.	GROSS AREA	AREA OF PROP 25% SLOPES OR GREATER	NET AREA
63	15050 #	1140 #	14810 #

- GENERAL NOTES
- ALL ROADWAYS ARE PUBLIC AND EXISTING.
  - ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
  - THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 992-2417 OR 992-2418.
  - THE MAXIMUM LOT COVERAGE IS 30% PER LOT.
  - TOPO TAKEN FROM AERIAL PHOTOGRAMMETRIC DATA SERVICES FROM FEBRUARY 6, 1988 AND FIELD VERIFIED BY TRACY, SCHULTE & ASSOCIATES, FEBRUARY, 1989.
  - PUBLIC WATER AND SEWER SHOWN FOR REFERENCE ONLY. FOR MORE DETAILED INFORMATION, SEE WATER AND SEWER PLANS CONTRACT NO. 24-1818-D.
  - DELAY CONSTRUCTION OF HOUSES ON LOTS 60 AND 63 UNTIL PERMISSION TO REMOVE SEDIMENT TRAPS IS GRANTED BY THE SEDIMENT CONTROL INSPECTOR.
  - INDICATES WALKOUT BASEMENT.
  - INDICATES EXISTING TREES PROVIDED UNDER F-89-29.
  - STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED UNDER F-89-29.



**BENCHMARK DESCRIPTIONS**

BM # 712  
HUB & TACK SET, 15' LEFT & ROAD STA 29+15 = STANSFIELD ROAD.

BM # 715  
HUB & TACK SET, 14' RIGHT & ROAD STA 41+56 = STANSFIELD ROAD.

BM # 718  
HUB & TACK SET, 28' NORTHWEST OF EX. 14 # 523

**SITE ANALYSIS**

TOTAL AREA OF LOTS ..... 30.34 AC.  
ZONING ..... R-20  
LIMIT TYPE ..... SINGLE FAMILY DETACHED  
MAXIMUM BUILDING COVERAGE ALLOWED ..... 30%

NO.	DATE	REVISION
1	1-2-89	REVISE HOUSE TYPE LOT 66
2	8-19-91	REVISE HOUSE TYPE LOT 67
3	8-2-91	REVISE HOUSE TYPE LOT 74
4	6-7-1991	REVISE HOUSE TYPE LOTS 70, 71, 73, 77
5	5-10-1991	REVISE HOUSE TYPE LOTS 63 & 64
6	4-25-1991	REVISE HOUSE TYPE LOT 68

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

*Joyce M. Boyd* HEALTH OFFICER 10/25/89 DATE

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

*James P. ...* DIRECTOR 10/25/89 DATE

CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

*James S. ...* PLANNING DIRECTOR 11/13/89 DATE

*Frank S. ...* CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 1/4/89 DATE

NO.	DATE	REVISION
1	4-12-91	REVISE HOUSE TYPE LOT 69
2	11-9-90	REVISE HOUSE TYPE LOT 72

**TRACY, SCHULTE & ASSOCIATES INC.**  
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*Diane K. ...*

OWNER: HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
10275 LITTLE PATUXENT PARKWAY  
COLUMBIA, MARYLAND, 21044

DEVELOPER: RYAN HOMES  
9175 GUILFORD ROAD - SUITE 200  
COLUMBIA, MARYLAND 21046

PROJECT: (SINGLE FAMILY DETACHED DWELLINGS)  
**THE FOREST**  
(LOTS 1-20, 22-33, 35-60 & 62-78)

LOCATION: TAX MAP NO. 46 & 47 ZONE R-20 PARCEL B37  
6TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

TITLE: SITE DEVELOPMENT PLAN  
LOTS 62-78

DATE: 5-28-89 F-89-29 S.D.P. 89-28  
HARCH 31, 1989 PROJECT NO. 0173  
OCTOBER 18, 1989

DES. P.A.M. DRN. J.H./R.C. SCALE AS SHOWN DRAWING 1 OF 7

NO.	DATE	REVISION
1	10-9-91	REVISE HOUSE TYPE ON LOT 78

SUBDIVISION NAME	SECT./AREA	PARCEL / LOT NO'S
THE FOREST	1/1	1-20, 22-33, 35-60 & 62-78
PLAT #/LF	BLOCK #	ZONE
000A-0510	10110	R-20
TAX / ZONE MAP	ELEC. DIST.	CENSTR.
46 & 47	6	COGZ
WATER CODE	SEWER CODE	
E-19	7172000	



7-13-92	REVISE GRADING LOT 14 FROM WALKOUT BSMT TO SUNKEN BSMT
8-23-92	REVISE HOUSE TYPE LOT 55
5-11-92	REVISE HOUSE TYPE LOT 14
4-22-92	REVISE HOUSE TYPE LOTS 7 & 12
4-8-92	REVISE HOUSE TYPE LOT 54
3-10-92	REVISE HOUSE TYPE LOT 9
2-6-92	REVISE HOUSE TYPE LOTS 23 & 24
1-2-92	REVISE HOUSE TYPE LOT 8
12-18-91	REVISE HOUSE TYPE LOT 55
10-16-91	REVISE HOUSE TYPE LOT 50
9-19-91	REVISE HOUSE TYPE LOTS 57, 60 & 51
9-13-1991	REVISE HOUSE TYPE LOTS 6 & 22
7-25-1991	REVISE HOUSE TYPE LOTS 3, 15, 25
6-7-1991	REVISE HOUSE TYPE LOTS 4, 11, 13, 26, 52, 59
5-10-1989	REVISE HOUSE TYPE LOT 27

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

*Joyce M. Boyd*  
COUNTY HEALTH OFFICER  
10/25/89  
DATE

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

*James J. ...*  
DIRECTOR  
10/25/89  
DATE

*...*  
CHIEF, BUREAU OF ENGINEERING  
DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

*Joseph ...*  
PLANNING DIRECTOR  
11/13/89  
DATE

*...*  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
11/2/89  
DATE

NO	DATE	REVISION
2	11-9-90	REVISE HOUSE TYPES LOTS 1, 6, 10, 15 & 6
1		REVISE LOTS 16, 17, 18, 20 AND 58

3 | 12-18-90 | REVISE HOUSE TYPE LOTS 2 & 19

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*...*

OWNER HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	PROJECT (SINGLE-FAMILY DETACHED DWELLINGS) <b>THE FOREST</b> (LOTS 1-20, 22-35, 35-60 & 62-76)
DEVELOPER RYAN HOMES 9175 GUILFORD ROAD - SUITE 200 COLUMBIA, MARYLAND 21046	LOCATION TAX MAP NO. 46 & 47 ZONE R-20 PARCEL 837 GTM ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE SITE DEVELOPMENT PLAN LOTS 1-20 AND 50-60 5-20-89 P-88-67 F-89-27 SPP-89-188	DATE MARCH 31, 1989 OCTOBER 18, 1989
DES. P.A.M.	DRN JH / RC
SCALE 1" = 50'	DRAWING 2 OF 7



2-4-92	REVISE HOUSE TYPE ON LOT 49
9-18-91	REVISE HOUSE TYPE ON LOT 46
8-2-91	REVISE HOUSE TYPE ON LOTS 32 + 48
6-13-1991	REVISE HOUSE TYPE ON LOT 85 (S)
6-10-1991	REVISE HOUSE TYPE ON LOTS 29, 45, 86(S), 90(S)
4-25-1991	REVISE HOUSE TYPE ON LOT 38, 41
4-12-91	REVISE HOUSE TYPE ON LOT 42
NO DATE	REVISION

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

*James M. Boyd*  
COUNTY HEALTH OFFICER  
DATE: 10/25/89

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

*James J. ...*  
DIRECTOR  
DATE: 10/25/89

*...*  
CHIEF, BUREAU OF ENGINEERING  
DATE: 10-25-89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

*...*  
PLANNING DIRECTOR  
DATE: 11/13/89

*...*  
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
DATE: 11/9/89

3-21-91	REVISE HOUSE TYPE ON LOTS 35, 36, 39, 40 + 43
12-18-90	REVISE HOUSE TYPE ON LOTS 33, 44
NO DATE	REVISION

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*Tracy Schulte*

OWNER HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	PROJECT (SINGLE FAMILY DETACHED DWELLINGS) <b>THE FOREST</b> (LOTS 1-20, 22-33, 35-60 & 62-76)
DEVELOPER RYAN HOMES 9175 GUILFORD ROAD - SUITE 200 COLUMBIA, MARYLAND 21046	LOCATION TAX MAP NO. 46 & 47 ZONE = R-20 PARCEL 837 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE SITE DEVELOPMENT PLAN LOTS 29 - 49	DATE MARCH 31, 1989 OCTOBER 18, 1989
DES. D.A.M.	DRN. JH/RC
SCALE 1" = 50'	DRAWING 3 OF 7

4-20-89  
cm

PLAN  
SCALE: 1" = 50'

SEQUENCE OF CONSTRUCTION

- DAY 1 1. OBTAIN A GRADING PERMIT.
- DAY 2-5 2. INSTALL SEDIMENT TRAPS, EARTH DIKES, SILT FENCE AND STABILIZE CONSTRUCTION ENTRANCES.
- DAY 6-26 3. GRADE SITE AND STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.
- DAY 27-290 4. COMPLETE CONSTRUCTION ON ALL LOTS DELAYING CONSTRUCTION ON LOTS 60 AND 63 UNTIL SEDIMENT TRAPS ARE REMOVED.
- DAY 291-304 5. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT TRAPS AND COMPLETE CONSTRUCTION ON LOTS 60 AND 63.
- DAY 305-310 6. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.

- NOTE:
- 1. STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED UNDER THE FOREST F-89-29.
  - 2. DELAY CONSTRUCTION ON LOTS 60 AND 63 UNTIL SEDIMENT TRAPS ARE REMOVED.

**STONE OUTLET  
SEDIMENT TRAP NO. 2**  
 DRAINAGE AREA ..... 1.75 Ac.  
 STORAGE REQUIRED ..... 2,150 Cu.Ft.  
 STORAGE PROVIDED .....  
 CREST ELEVATION ..... 245.0  
 TOP ELEVATION ..... 246.0  
 BOTTOM ELEV. .... 241.0  
 CLEANOUT ELEV. .... 242.5  
 CREST WIDTH ..... 7.0'

**RIP RAP OUTLET  
SEDIMENT TRAP NO. 3**  
 DRAINAGE AREA ..... 5.68 Ac.  
 STORAGE REQUIRED ..... 10,244 Cu.Ft.  
 STORAGE PROVIDED ..... 10,325 Cu.Ft.  
 CREST ELEVATION ..... 227.0  
 TOP ELEVATION ..... 228.0  
 BOTTOM ELEV. .... 221.0  
 CLEANOUT ELEV. .... 223.5  
 CREST WIDTH ..... 23'  
 BOTTOM DIMENSION ... 20'x42' TRIANGULAR

**LEGEND**

- ..... DRAINAGE AREA DIVISION
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SILT FENCE

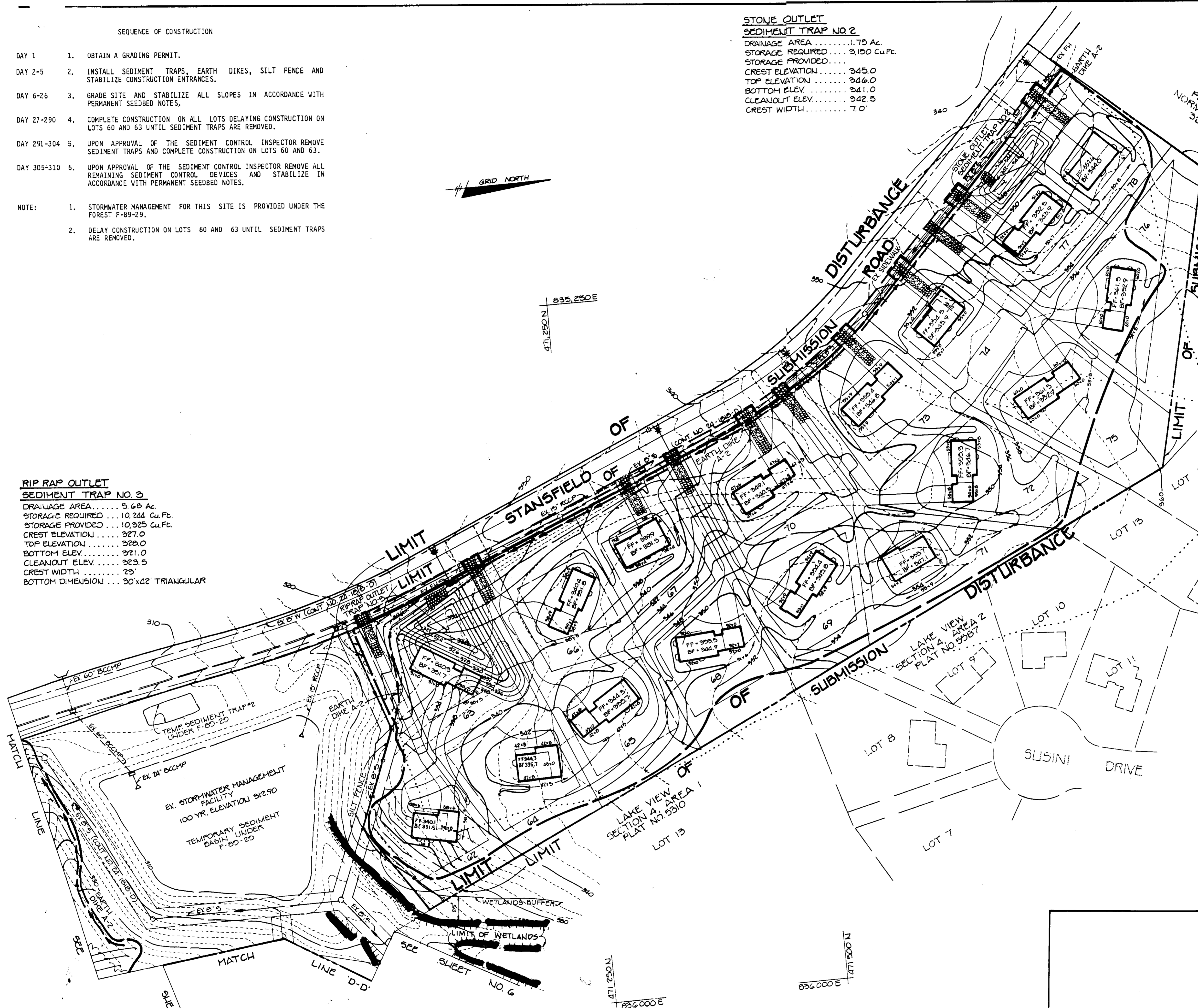
NOTE: WETLAND LIMITS TO BE CLEARLY MARKED AND SNOW FENCE PROVIDED TO MARK LIMITS ADJACENT TO BUILDABLE LOTS.



471.250N  
835.250E

N 052 12 E  
836.000E

**PLAN**  
SCALE: 1" = 50'



BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 NATURAL RESOURCES 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."

*Brian Teeters*  
 DEVELOPER: BRIAN TEETERS RYAN HOMES DATE: 3.31.89

BY THE ENGINEER:  
 "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."

*James K. Tracy*  
 ENGINEER: JAMES K. TRACY P.E. DATE: 3.31.89

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*James M. Nelson*  
 U.S. SOIL CONSERVATION SERVICE DATE: 4/2/89

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*John R. Robinson*  
 HOWARD S.C.D. DATE: 4/2/89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT  
*Joyce M. Boyd*  
 COUNTY HEALTH OFFICER DATE: 10/25/89

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James J. ...*  
 DIRECTOR DATE: 10/25/89

*William S. ...*  
 CHIEF, BUREAU OF ENGINEERING DATE: 10.25.89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.  
*James K. ...*  
 PLANNING DIRECTOR DATE: 11/13/89

*Mark S. ...*  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE: 1/5/89

NO.	DATE	REVISION

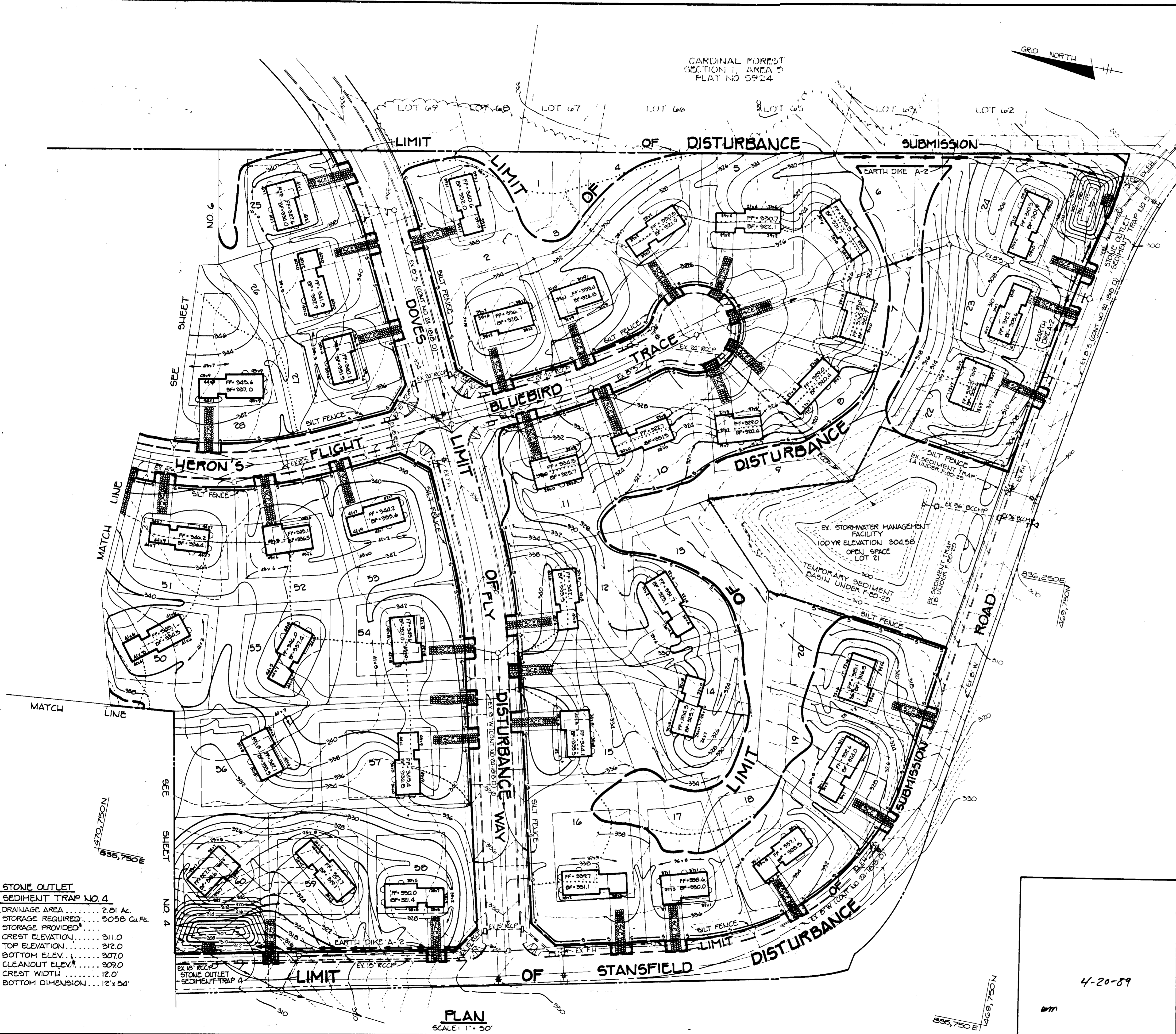
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OWNER HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATENT PARKWAY COLUMBIA, MARYLAND, 21044	PROJECT (SINGLE FAMILY DETACHED DWELLINGS) <b>THE FOREST</b> (LOTS 1-20, 22-33, 35-60 & 62-78) LOCATION TAX MAP NO. 46 & 47 ZONE R-20 PARCEL 837 COLUMBIA, MARYLAND, 21044 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER RYAN HOMES 9175 GUILFORD ROAD - SUITE 200 COLUMBIA, MARYLAND 21046	TITLE GRADING AND SEDIMENT CONTROL PLAN 6-88-33 R-88-67 LOTS 62-78 F-89-29, 50P-89-188
DATE MAR 31, 1989	DATE OCTOBER 18, 1989
DES. P.A.M.	DRN. J.L.H.
SCALE 1" = 50'	DRAWING 4 OF 7

CARDINAL FOREST  
SECTION 1, AREA 2  
FLAT NO 5924



**STONE OUTLET  
SEDIMENT TRAP NO. 5**  
DRAINAGE AREA ..... 1.95 AC.  
STORAGE REQUIRED ..... 3510 CU.FE.  
STORAGE PROVIDED ..... 3520 CU.FE.  
CREST ELEVATION ..... 2990  
TOP ELEVATION ..... 3000  
BOTTOM ELEV. .... 2950  
CLEANOUT ELEV. .... 2960  
CREST WIDTH ..... 8.0'  
BOTTOM DIMENSION ..... 9'x40'



**STONE OUTLET  
SEDIMENT TRAP NO. 4**  
DRAINAGE AREA ..... 2.01 AC.  
STORAGE REQUIRED ..... 5058 CU.FE.  
STORAGE PROVIDED .....  
CREST ELEVATION ..... 311.0  
TOP ELEVATION ..... 312.0  
BOTTOM ELEV. .... 307.0  
CLEANOUT ELEV. .... 309.0  
CREST WIDTH ..... 12.0'  
BOTTOM DIMENSION ..... 12'x54'

**PLAN**  
SCALE: 1" = 50'

BY THE DEVELOPER: "I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 NATURAL RESOURCES 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." <i>Brian Teeters</i> DEVELOPER: BRIAN TEETERS DATE: 3-31-89		
BY THE ENGINEER: "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." <i>James K. Tracy</i> ENGINEER: JAMES K. TRACY, P.E. DATE: 3-31-89		
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS <i>James M. Wilson</i> U.S. SOIL CONSERVATION SERVICE DATE: 10/20/89		
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT <i>John R. Robertson</i> HOWARD S.C.D. DATE: 10/20/89		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>James M. Boyd</i> COUNTY HEALTH OFFICER DATE: 10/25/89		
APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>James M. Boyd</i> DIRECTOR DATE: 10/25/89 <i>John R. Robertson</i> CHIEF, BUREAU OF ENGINEERING DATE: 10-25-89		
APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING. <i>James M. Boyd</i> PLANNING DIRECTOR DATE: 11/13/89 <i>Frank S. Taylor</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE: 11/5/89		
NO	DATE	REVISION

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OWNER HOWARD RESEARCH AND DEVELOPMENT CORPORATION 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	PROJECT (SINGLE FAMILY DETACHED DWELLINGS) <b>THE FOREST</b> (LOTS 1-20, 22-23, 35-60 & 62-78) LOCATION TAX MAP NO. 46 & 47 ZONE R-20 PARCELS 837 COLUMBIA, MARYLAND 21044 G7th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER RYAN HOMES 9175 GUILFORD ROAD - SUITE 200 COLUMBIA, MARYLAND 21046	TITLE <b>GRADING AND SEDIMENT CONTROL PLAN</b> P-00-67 5-00-23 DATE MARCH 31, 1989 OCTOBER 18, 1989
DES. P.A.M. DRN. J.H.	SCALE 1" = 50' DRAWING 5 OF 7

4-20-89



**STONE OUTLET  
SEDIMENT TRAP NO. 1**

DRAINAGE AREA	250 Ac.
STORAGE REQUIRED	4,644 Cu Ft.
STORAGE PROVIDED	4,860 Cu Ft.
CREST ELEVATION	341.0
TOP ELEVATION	342.0
BOTTOM ELEV.	337.0
CLEANOUT ELEV.	338.5
CREST WIDTH	11.0'
BOTTOM DIMENSION	65' x 16'

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 NATURAL RESOURCES 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."

*Brian Teeters*  
 DEVELOPER: BRIAN TEETERS RYAN HOMES  
 DATE: 3.31.89

BY THE ENGINEER:  
 "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."

*James K. Tracy*  
 ENGINEER: JAMES K. TRACY P.E.  
 DATE: 3.31.89

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*James M. Tolson*  
 DATE: 10/20/89

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*John R. Robertson*  
 DATE: 10/20/89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
*George M. Boardman*  
 COUNTY HEALTH OFFICER  
 DATE: 10/25/89

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
*James P. Johnson*  
 DIRECTOR  
 DATE: 10/25/89  
*John C. ...*  
 CHIEF, BUREAU OF ENGINEERING  
 DATE: 10.25.89

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.  
*Joseph S. ...*  
 PLANNING DIRECTOR  
 DATE: 11/13/89  
*Frank J. ...*  
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DATE: 11/5/89

NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
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 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105  
*James K. Tracy*

OWNER  
 HOWARD RESEARCH AND DEVELOPMENT CORPORATION  
 10275 LITTLE PATUXENT PARKWAY  
 COLUMBIA, MARYLAND 21044

PROJECT (SINGLE FAMILY DETACHED DWELLINGS)  
**THE FOREST**  
 (LOTS 1-20, 22-33, 35-60 & 62-78)  
 LOCATION  
 TAX MAP NO. 46&47 ZONE R-20 PARCEL B37  
 6TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

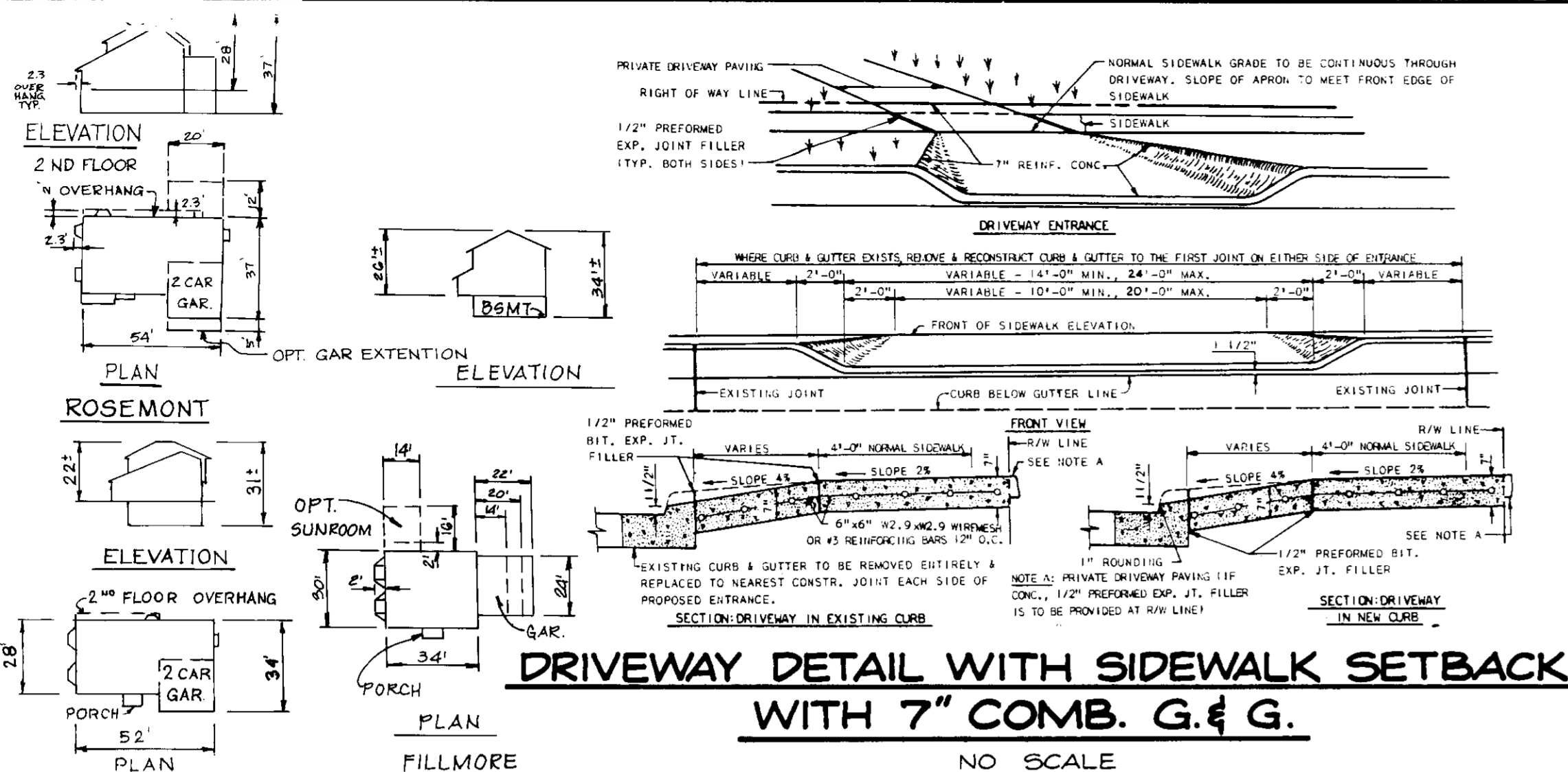
DEVELOPER  
 RYAN HOMES  
 9175 GUILFORD ROAD - SUITE 200  
 COLUMBIA, MARYLAND 21046

TITLE  
**GRADING AND SEDIMENT CONTROL PLAN**  
 6-00-35, 6-00-47 LOTS 29-49 F. 09-29, 50P-09-186  
 DATE: MARCH 31, 1989 PROJECT NO. 0173  
 DATE: OCTOBER 10, 1989

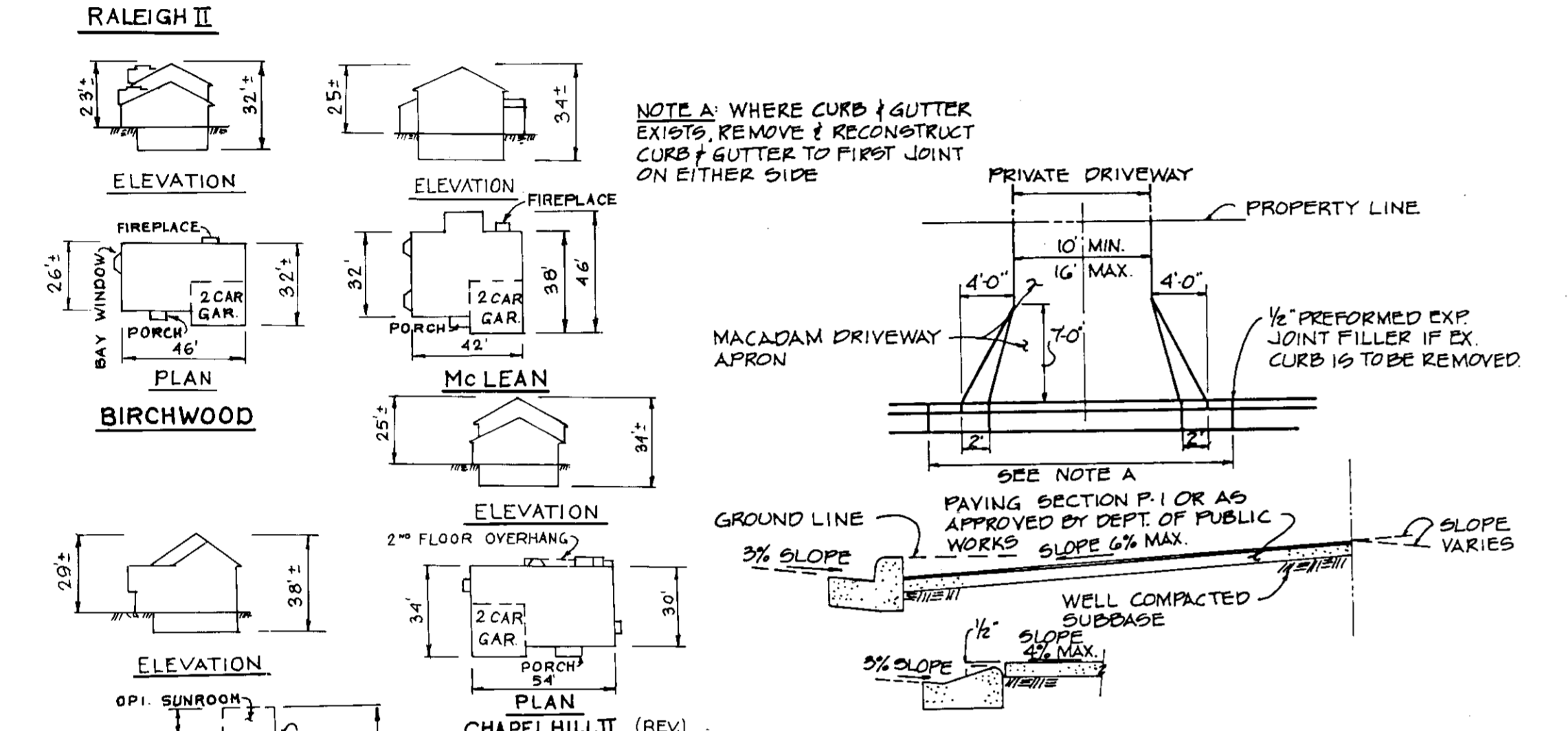
DES. D.A.M. DRN. J.H.

SCALE 1" = 50' DRAWING 6 OF 7

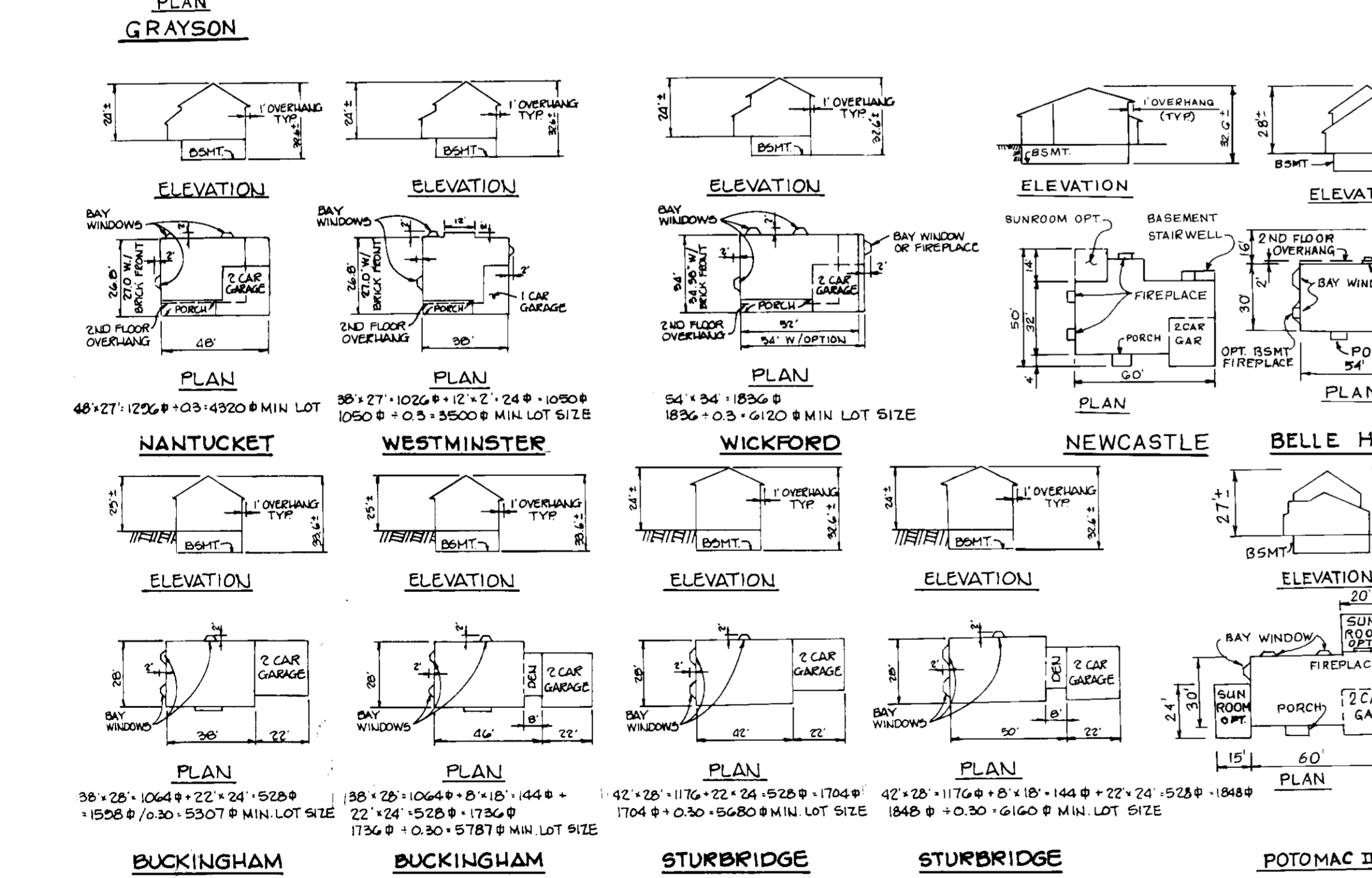
4-20-89  
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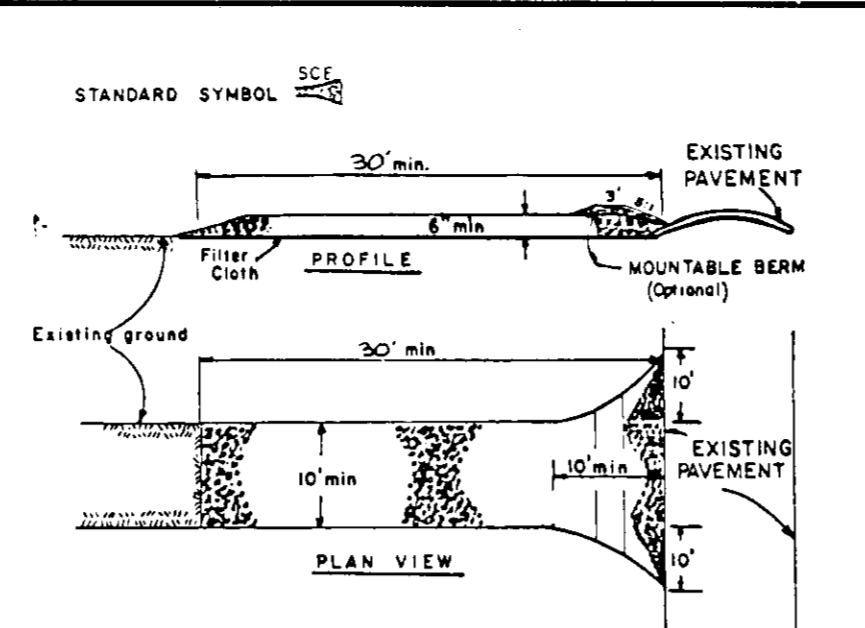
**DRIVEWAY DETAIL WITH SIDEWALK SETBACK WITH 7" COMB. G. & G.**  
NO SCALE



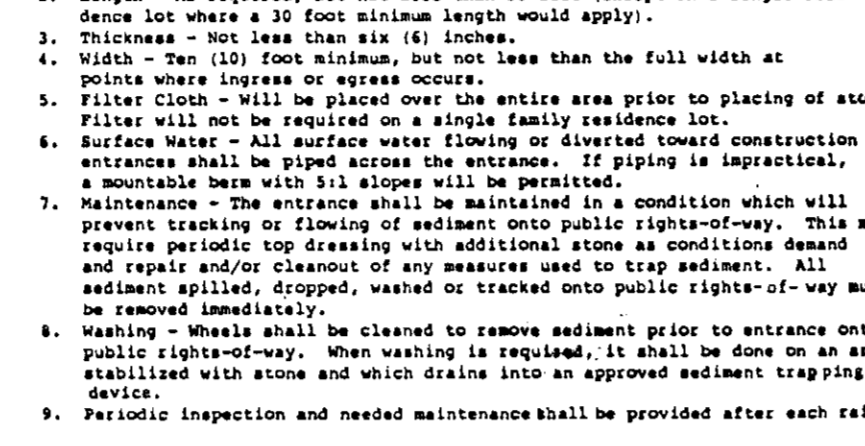
**DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK**  
NO SCALE



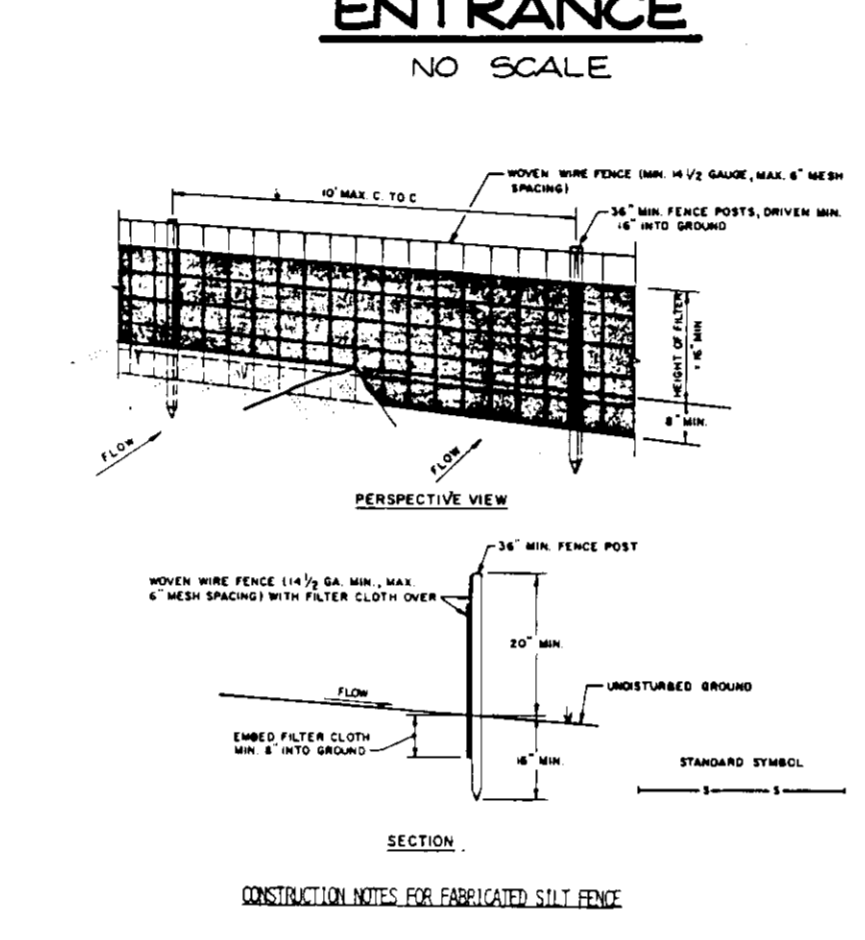
**TYPICAL HOUSES**  
SCALE: 1" = 50'



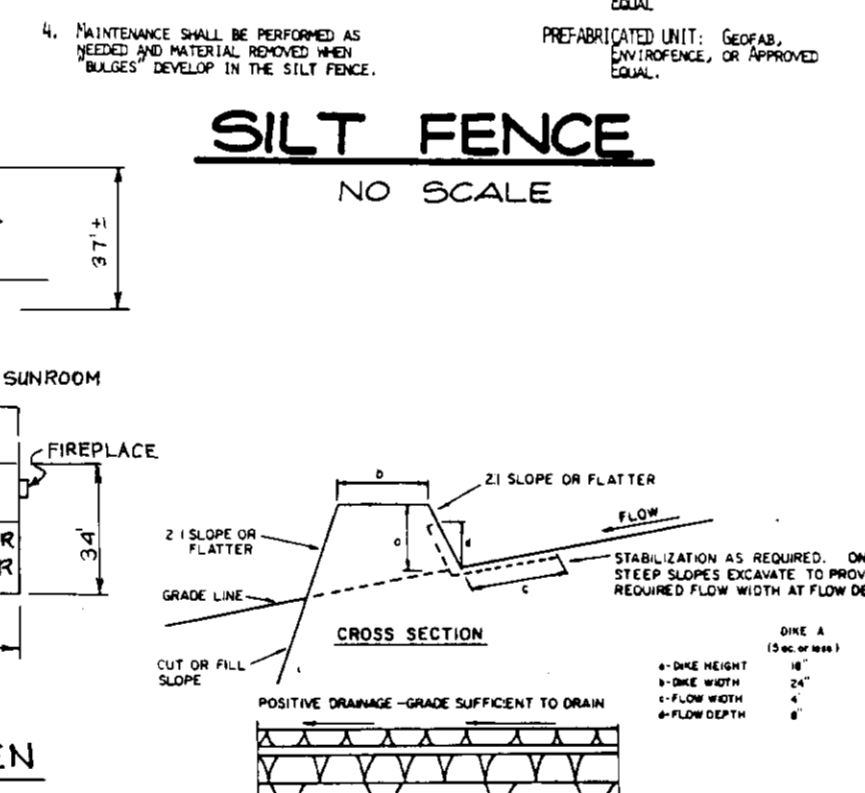
**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



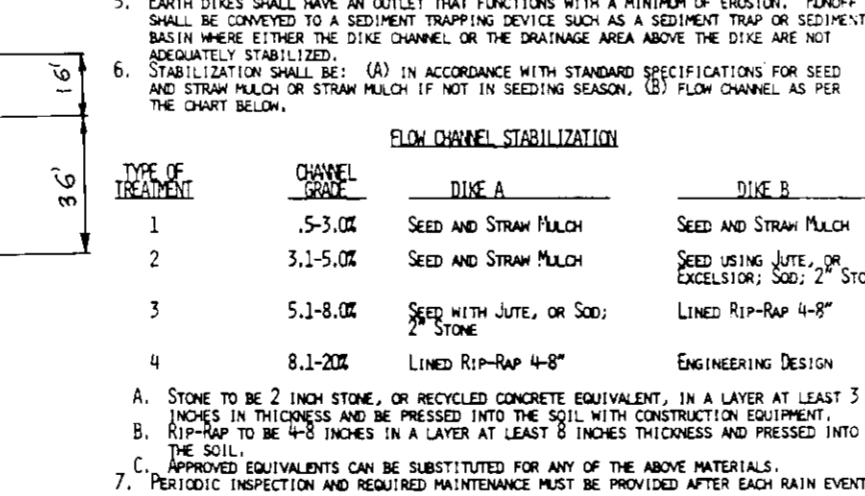
**STABILIZED CONSTRUCTION ENTRANCE**  
NO SCALE



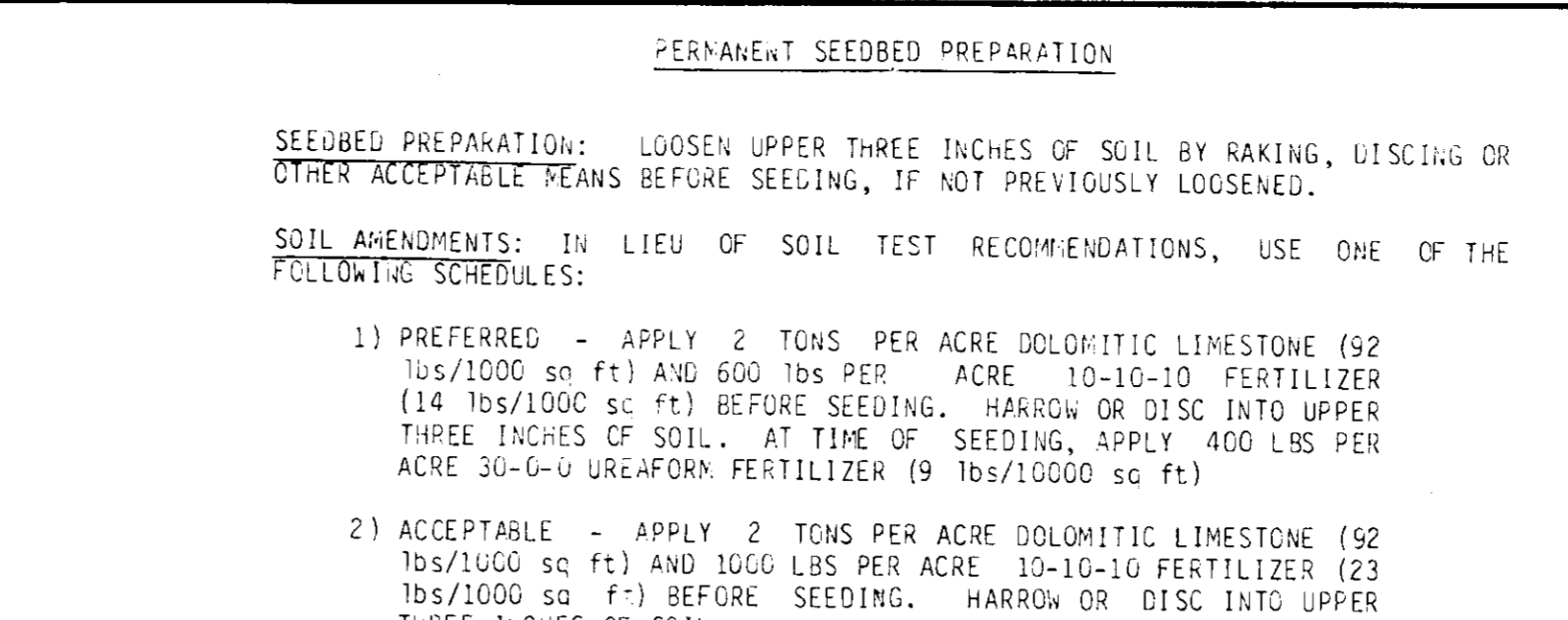
**SILT FENCE**  
NO SCALE



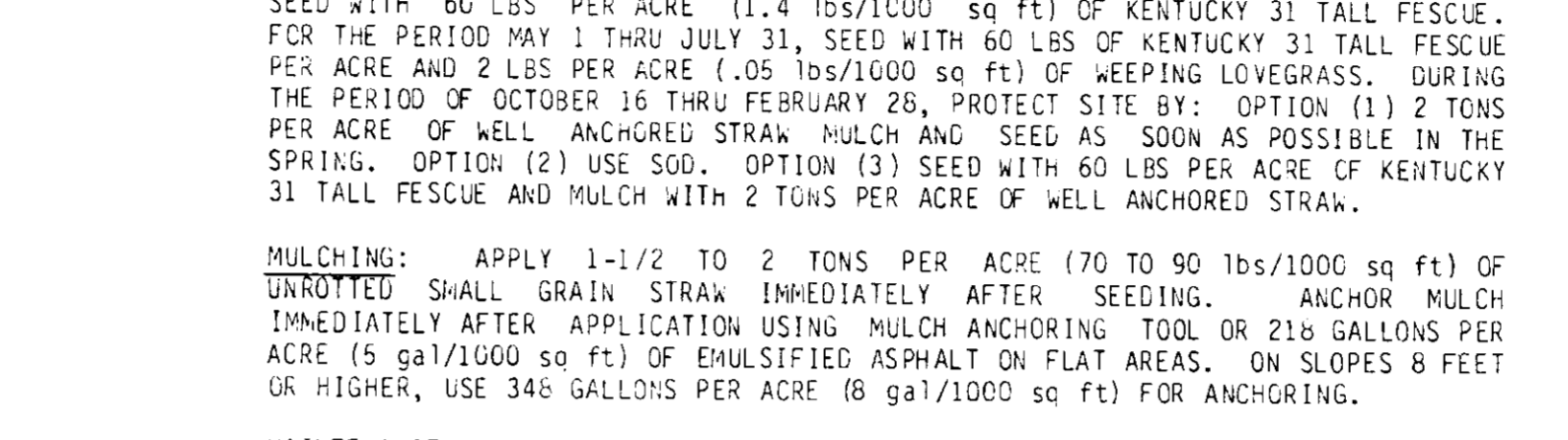
**EARTH DIKE**  
NO SCALE



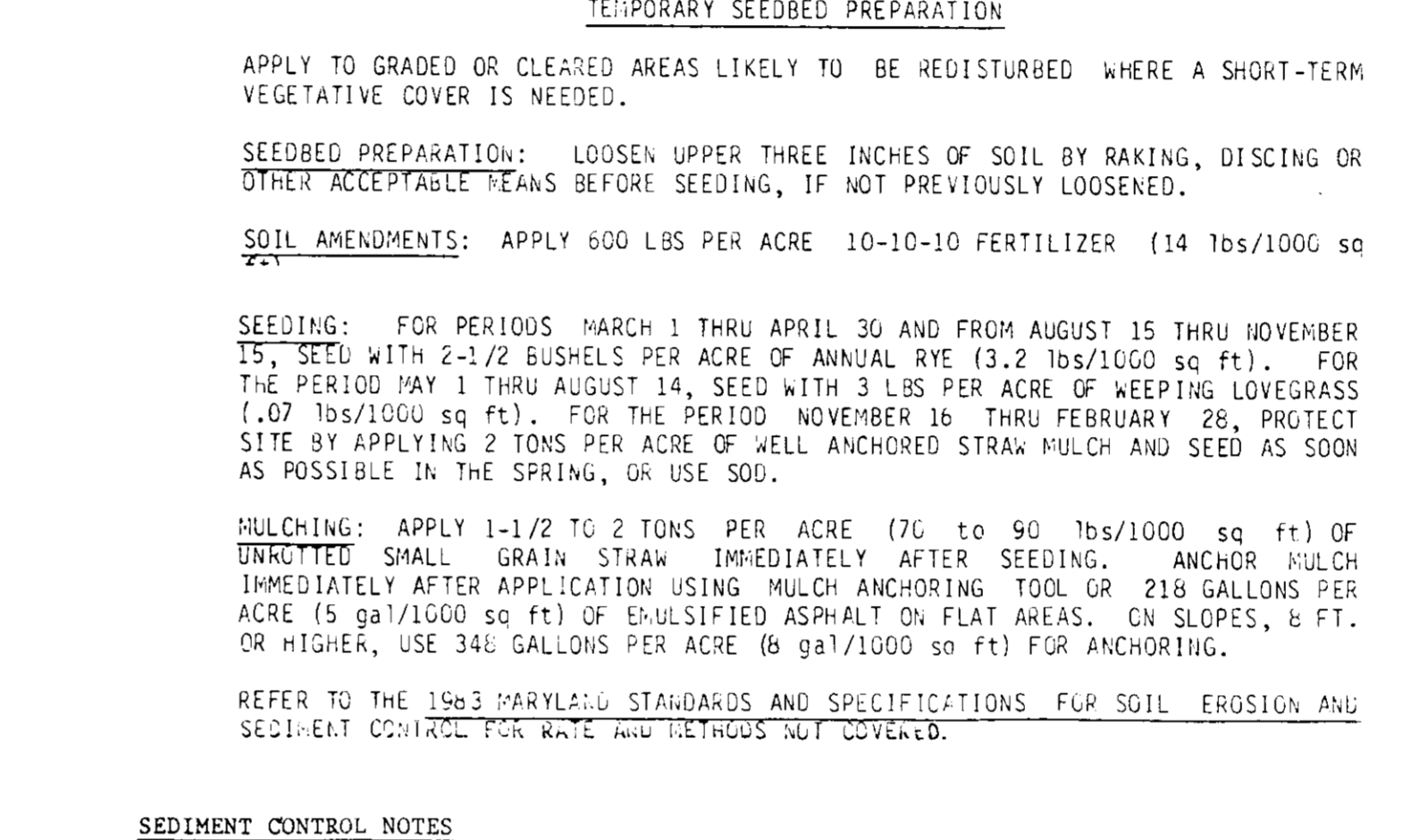
**EARTH DIKE**  
NO SCALE



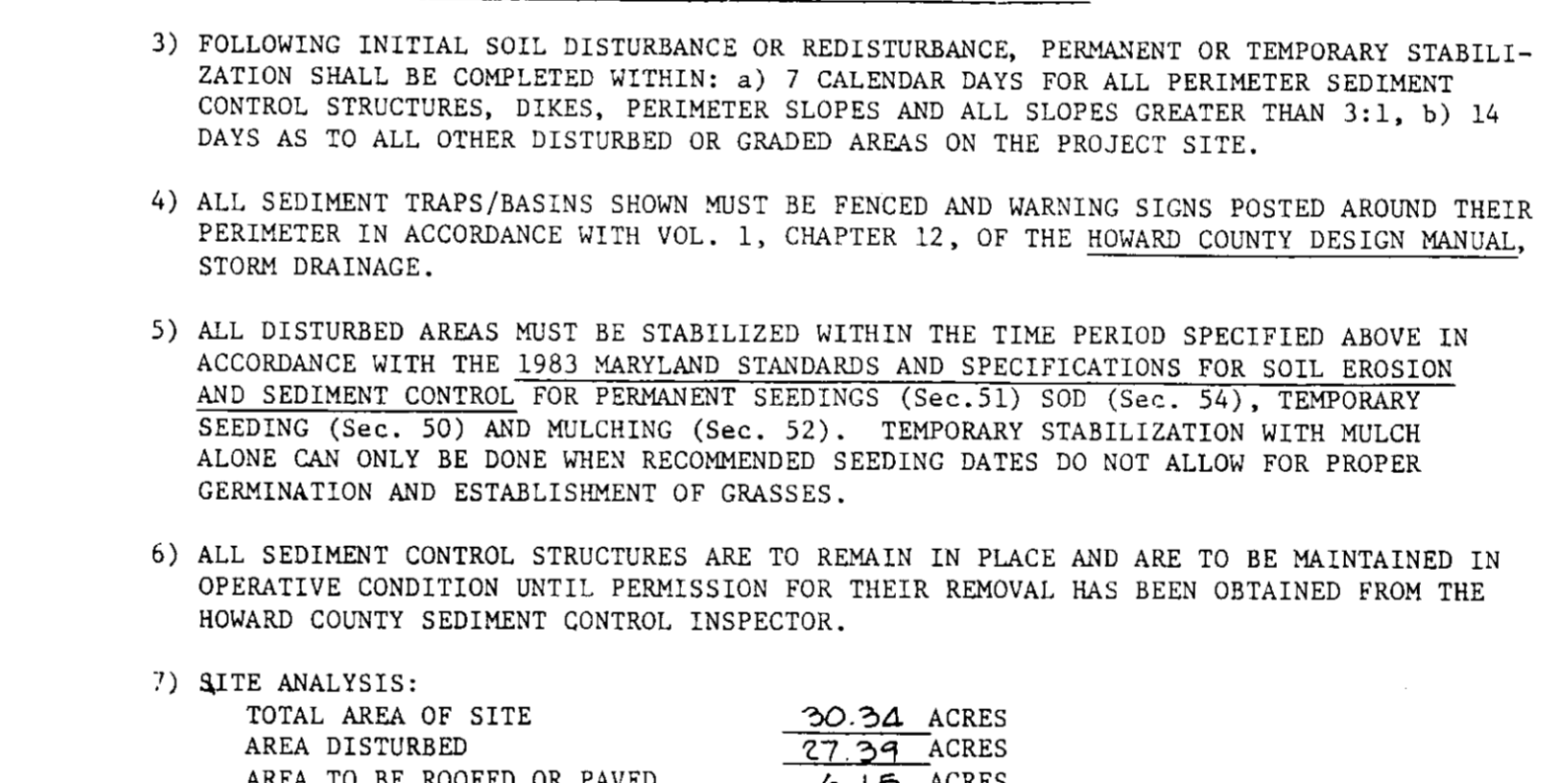
**PERMANENT SEEDBED PREPARATION**



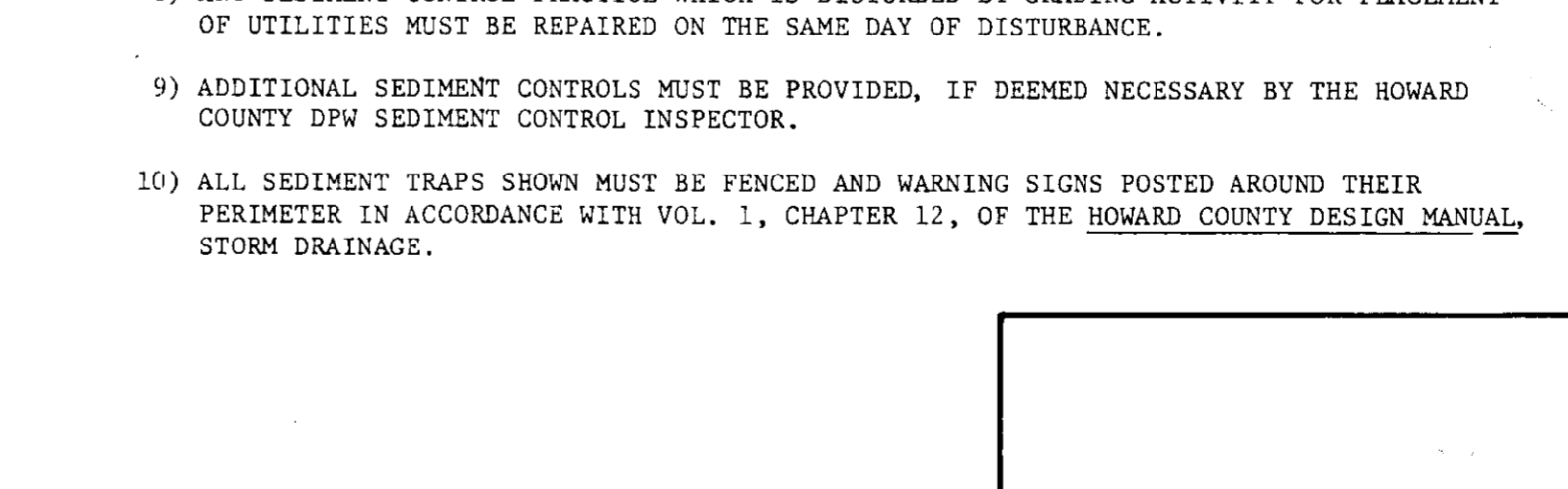
**TEMPORARY SEEDBED PREPARATION**



**SEDIMENT CONTROL NOTES**



**CONSTRUCTION SPECIFICATIONS**



**CONSTRUCTION SPECIFICATIONS**

NO	DATE	REVISION
1	4-25-89	ADD TYPICAL HOUSE GRAYSON
2	4-12-1991	ADD TYPICAL HOUSES BELLE HAVEN & POTOMAC II

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) 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 UREA-FORM FERTILIZER (9 lbs/10000 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.

NO	DATE	REVISION
1	2-6-92	ADD TYPICAL HOUSE FILLMORE
2	6-10-1991	ADD TYPICAL HOUSES RALEIGH II, McLEAN, CHAPEL HILL
3	5-10-1991	ADD TYPICAL HOUSE BIRCHWOOD

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 NATURAL RESOURCES 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."

DEVELOPER: *Brian Teeters* RYAN HOMES DATE: *3-31-89*

BY THE ENGINEER:

"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."

ENGINEER: *James K. Tracy* DATE: *3-31-89*

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*James M. Holm* DATE: *10/20/89*

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

*John P. Robertson* DATE: *10/20/89*

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

*Joseph M. Boyd* DATE: *10/25/89*

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

*James J. Schuler* DATE: *10/25/89*

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING.

*James J. Schuler* DATE: *11/13/89*

*James S. Schuler* DATE: *1/9/89*

NO	DATE	REVISION
1	4-25-89	ADD TYPICAL HOUSE GRAYSON
2	4-12-1991	ADD TYPICAL HOUSES BELLE HAVEN & POTOMAC II

**TRACY, SCHULTE & ASSOCIATES INC.**  
planning • architecture • engineering

8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER	PROJECT	LOCATION
HOWARD RESEARCH AND DEVELOPMENT CORPORATION	(SINGLE FAMILY DETACHED DWELLING) THE FOREST (LOTS 1-20, 22-23, 25-60 & 62-78)	10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044
DEVELOPER	TITLE	DATE
RYAN HOMES 9175 GUILFORD ROAD - SUITE 200 COLUMBIA, MARYLAND 21046	DETAILS	MARCH 31, 1989
DES	D.A.M.	D.P.N.
SCALE	AS SHOWN	DRAWING
		7 OF 7

4-20-89  
D.M.