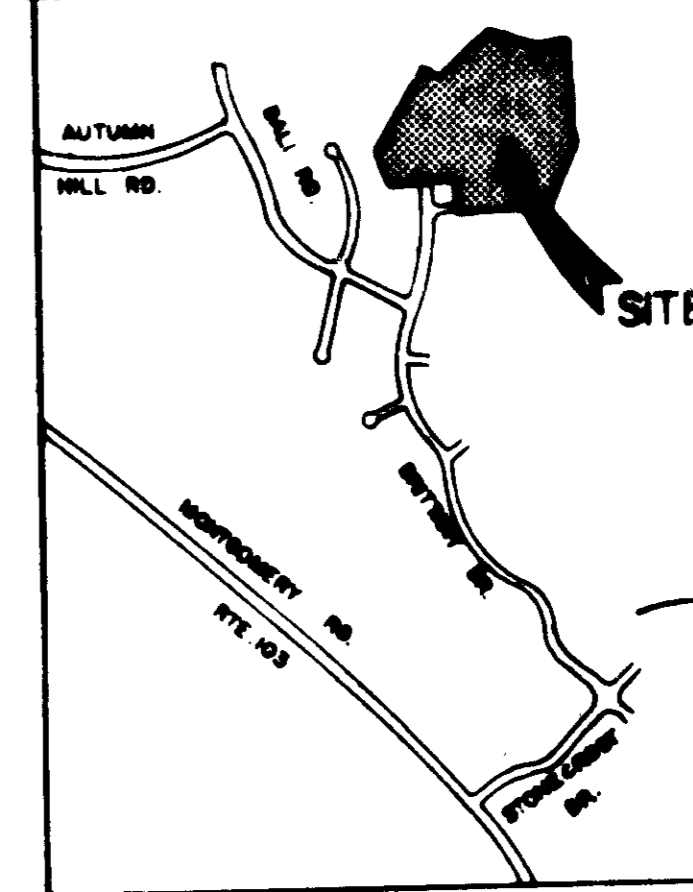


**GENERAL NOTES**

- 1) THE LAND INCLUDED IS ZONED R-20 (RES).
- 2) COORDINATES SHOWN ARE EXTENSIONS MADE FROM THE MARYLAND STATE PLANE COORDINATE SYSTEM. BEARINGS REFER TO THE TRUE NORTH.
- 3) THE AREA COVERED IN THIS SUBMISSION IS LOCATED ON TAX MAP NO 25.
- 4) THE TOTAL AREA ON THIS PLAN IS 706,756 SQ. FT.
- 5) ALL ROADS ARE PUBLIC AND EXISTING.
- 6) ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAYS SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- 7) TOTAL NUMBER OF LOTS IN THIS SUBMISSION ARE 43.
- 8) STREET TREES WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS BY THE DEVELOPER.
- 9) STORM WATER MANAGEMENT IS PROVIDED UNDER F-85-194.



**VICINITY MAP**  
SCALE 1" = 1200'

ADDRESS CHART	
LOT NO.	STREET ADDRESS
37	4168 BRITANNY DRIVE
38	4164
39	4160
40	4156
41	4148
42	OPEN SPACE N.A.
43	8540 AUTUMN RUST ROAD
44	8542
45	8538
46	8534
47	8530
48	8522
49	8518
50	8514
51	8510
52	8506
53	8502
54	8498
55	8494
56	8490
57	8486
58	4161 BRITANNY DRIVE
59	4165
60	4160
61	8504 WHITE WINTER COURT
62	8506 GREEN SPRING COURT
63	8510
64	8514
65	8518
66	8522
67	8526
68	8530
69	8534
70	8538
71	OPEN SPACE N.A.
72	8510 GREEN SPRING COURT
73	8516
74	8511
75	8517
76	8512 WHITE WINTER COURT
77	8516
78	8520
79	8524
80	OPEN SPACE N.A.
81	8502 WHITE WINTER COURT
82	8506
83	8510
84	8514
85	8518
86	8522
87	8526
88	8530

STONECREST SECTION 5  
P.B. 8 / F. 84  
(EXISTING R-20)

STONECREST SECTION 7

(EXISTING ZONING R-20)

STONECREST SECTION 7

APPROVED  
DA 4-30-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
*Walter Park* 5-21-86  
COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*Walter Park* 5-22-86  
PLANNING OFFICER

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Walter Park* 5-14-86  
DEPT. CHIEF ENGINEER

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

*Walter Park* 5/14/86  
LAND SURVEYOR

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Stephen R. Hughes* 5/14/86  
APPROVED

REVIEWED FOR HOWARD S.C.D. AND METS/ADMINISTRATIVE REQUIREMENTS.  
*John M. [Signature]* 5-14-86  
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 PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS AS SEEMER NECESSARY.  
*Floyd [Signature]* 5/14/86  
SIGNATURE OF DEVELOPER/BUILDER

W.T. SCHLOTTERBACK  
217 / 41  
(EXISTING ZONING R-20)

SUBDIVISION NAME AUTUMN MANOR	SUBC/TABSA 1	LOT # 37-41, 43-88
PLANNING DISTRICT 18	ZONING R-20	DATE SUBMITTED 5-14-86
WATER ZONE (POS)	SEWER ZONE (MOOSHO)	

**LAND DESIGN ASSOCIATES**  
415 EAST JOPPA ROAD  
TOWSON MARYLAND 21284  
(301) 321-0112

DESIGNED R.L.W.	<b>GRADING, AND SEDIMENT CONTROL PLAN</b>  <b>AUTUMN MANOR</b> SECTION 1, SHEET 1 LOTS 37-41, 43-88, 90, 92, 94, 96 2ND ELECTION DISTRICT HOWARD CO. MARYLAND	SCALE 1" = 30'
DRAWN R.L.W.		DRAWING 1 of 5
CHECKED R.L.W.		JOB NO.
DATE 5/23/86		FILE NO.

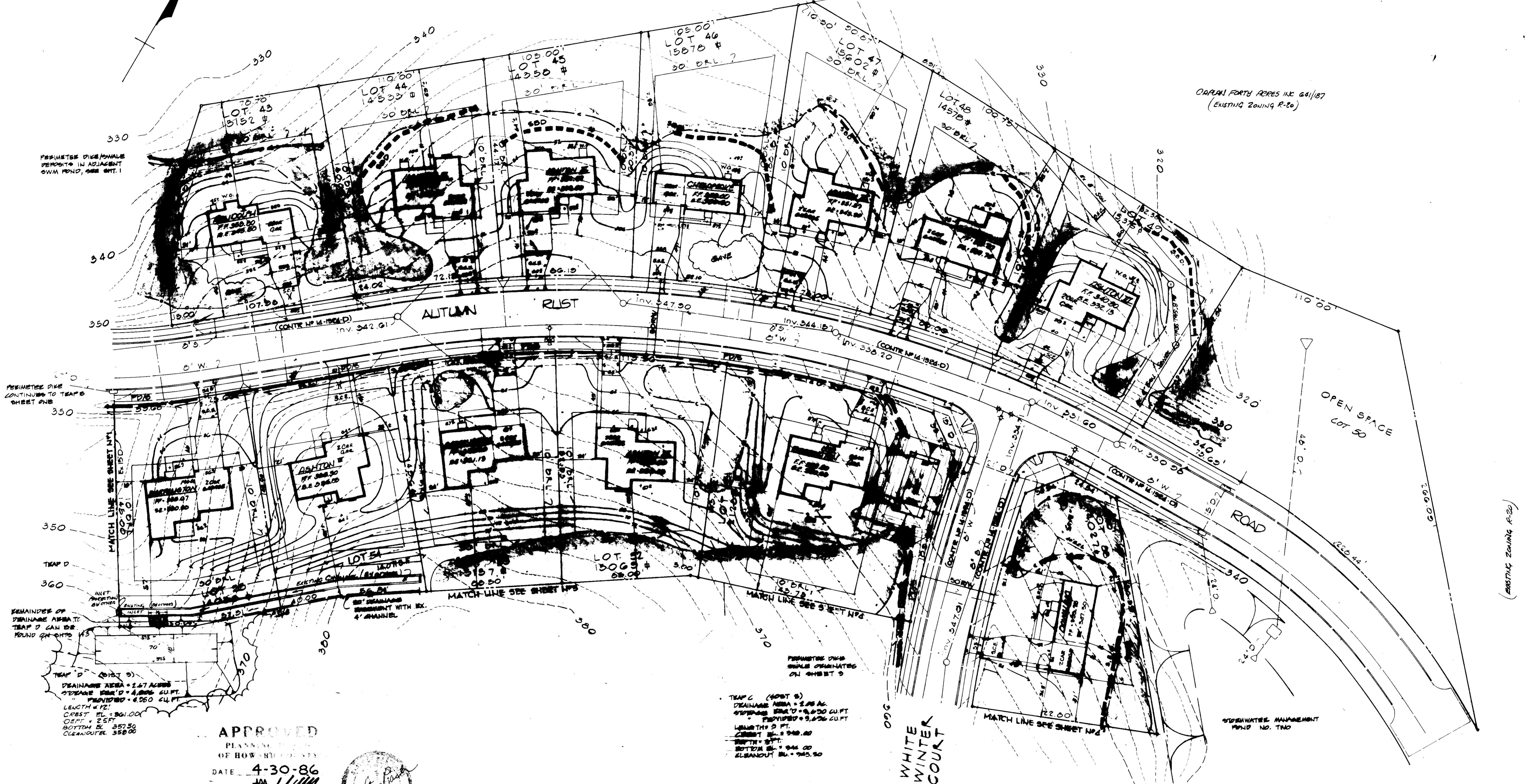
FOR: GRAYSON HOMES, INC.  
3025 CHEWROTT DRIVE, SUITE 8  
ELLIOTT CITY, MD 21043



W.T. SCHLOTTERBACK  
217 / 41  
(EXISTING ZONING R-20)

JACK L. CRIFFIN & W.F.  
374.688  
(EXISTING ZONING R-20)

CARLAN FORTY ACRES INC. 641/187  
(EXISTING ZONING R-20)



APPROVED  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 4-30-86



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

Walter Pak 5/1/86  
LAND SURVEYOR DATE

DEVELOPER/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 PERSONS INVOLVED IN  
THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE  
AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR  
THE CONTROL OF SEDIMENT AND EROSION CONTROL BEFORE BEGINNING  
THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE  
HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS AS  
DEEMED NECESSARY.

Stephen L. Fisher 5/1/86  
SIGNATURE OF DEVELOPER / BUILDER DATE

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

Stephen L. Fisher 5/1/86  
APPROVED DATE

REVIEWED FOR HOWARD S.C.D. AND  
MEETS TECHNICAL REQUIREMENTS.

5/1/86  
DATE

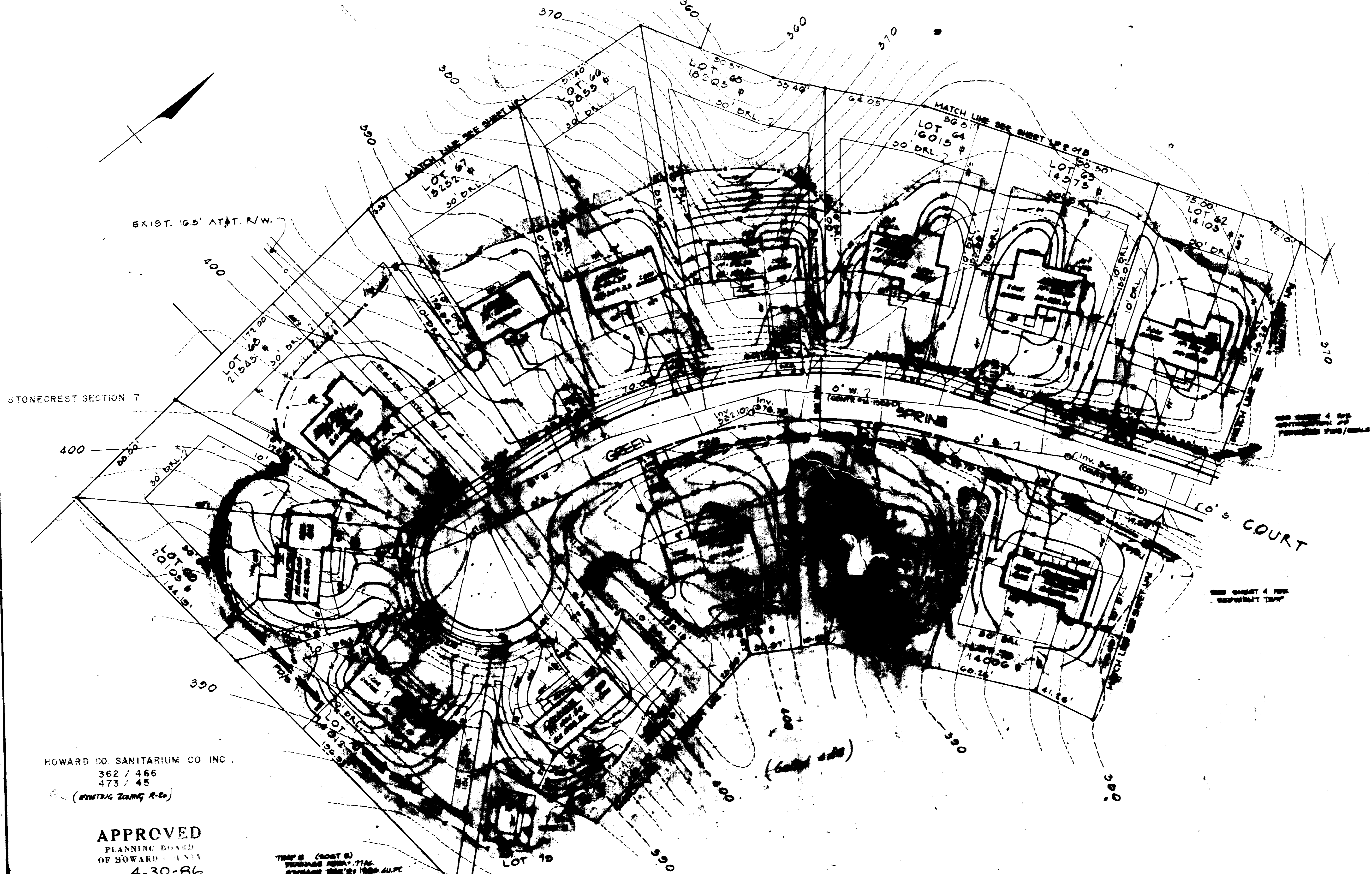
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
5-21-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
5-22-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE  
SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
5-19-86

ENGINEERING LANDSCAPE DESIGN CONSTRUCTION CONTRACTING DEVELOPMENT COST PROPERTY DEVELOPMENT		LAND DESIGN ASSOCIATES 415 EAST JOPPA ROAD TOWSON, MARYLAND 21284 (301) 321-0112	
DESIGNED R.L.W.	GRADING, AND SEDIMENT CONTROL PLAN		SCALE 1" = 30'
DRAWN R.L.W.	AUTUMN MANOR		DRAWING 2 of 5
CHECKED R.L.W.	SECTION 1, AREA 1 LOT 5 87'-41.25'-40.00'-70.75'-70'-81'-85' 2ND ELECTION DISTRICT, HOWARD CO. MARYLAND		JOB NO.
DATE 8/23/85	FOR: GRAYSON HOMES, INC. 3035 GERRY DRIVE, SUITE K ELLIOTT CITY, MD 21043	FILE NO.	





EXIST. 165' AT & T. N.W.

STONECREST SECTION 7

HOWARD CO. SANITARIUM CO. INC.  
 362 / 466  
 473 / 45  
 (EXISTING ZONING R-20)

**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 4-30-86

TRAP # (BOAT #)  
 THROUGH HORN-TIA  
 12" DIA. 12" DEPT. 12" W. PT.  
 12" DIA. 12" DEPT. 12" W. PT.  
 LENGTH = 9 FT.  
 WIDTH = 9.5 FT.  
 CENTER E.L. = 990.00  
 BOTTOM E.L. = 989.00  
 ELEVATION E.L. = 988.00



**ENGINEER'S CERTIFICATE**  
 I CERTIFY THAT THIS PLAN AND DESIGN AND  
 EROSION CONTROL REPRESENTS A PRACTICAL  
 AND USABLE PLAN BASED ON MY PERSONAL  
 KNOWLEDGE OF SITE CONDITIONS AND THAT  
 IT WAS PREPARED IN ACCORDANCE WITH THE  
 REQUIREMENTS OF THE HORNED OIL  
 CONSERVATION DISTRICT.

Walter Park  
 LAND DESIGN

**ENGINEER/OWNER'S CERTIFICATE**  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION SHALL BE IN  
 ACCORDANCE WITH THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND  
 SEDIMENT CONTROL, AND THAT ALL RESPONSIBLE PERSONS INVOLVED IN  
 THE CONSTRUCTION OF THIS PROJECT SHALL HAVE A CERTIFICATE OF APPROVAL  
 AS A DEPT. OF NATURAL RESOURCES APPROVED TRAPPING PERMITS FOR  
 THE CONTROL OF EROSION AND SEDIMENT CONTROL BEFORE COMMENCING  
 THE PROJECT. I ALSO HEREBY CERTIFY THAT I AM NOT PROVIDING ANY  
 OTHER CONSTRUCTION CONTRACT OF THIS ALTERNATE AS A  
 BASIS FOR THIS PLAN.

John A. [Signature]  
 [Signature]

APPROVED FOR HOWARD CO. AND  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DATE 5-14-86

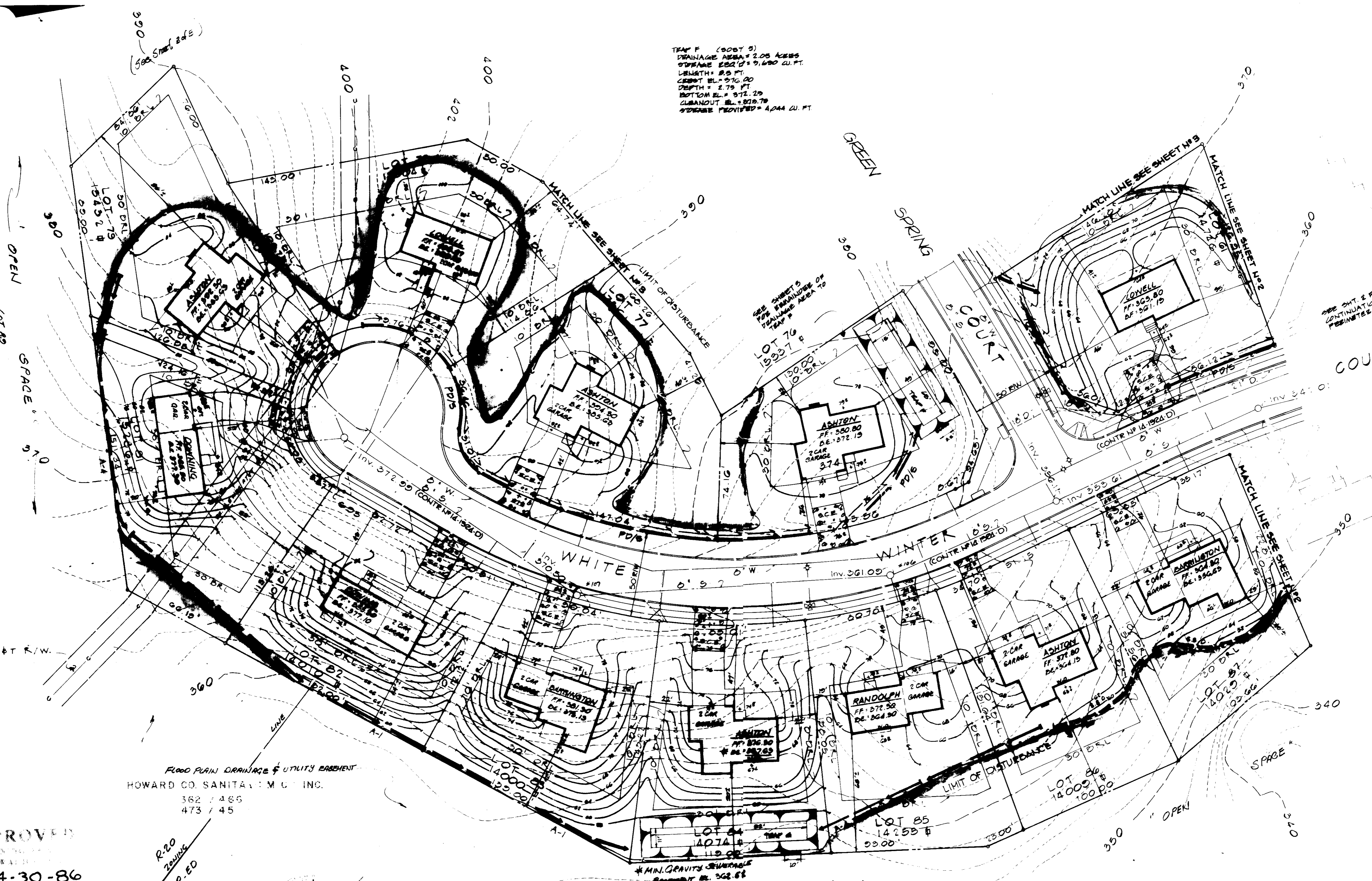
THIS DEVELOPMENT PLAN IS APPROVED  
 FOR ALL EROSION AND SEDIMENT CONTROL  
 BY THE HORNED OIL CONSERVATION DISTRICT  
 DATE 5/14/86

<b>LAND DESIGN ASSOCIATES</b> 416 EAST WYOMING ROAD TOWSON, MARYLAND 21284 (301) 251-0102		SCALE 1" = 30' DRAWING 3 OF 5 JOB NO. FILE NO.
ENGINEERING L. LANDSCAPE DESIGN CONSTRUCTION CONTRACTING DEVELOPMENT COST PROPERTY DEVELOPMENT	<b>GRADING, AND SEDIMENT CONTROL PLAN</b> <b>AUTUMN MANOR</b> SECTION 1, LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 2ND ELECTION DISTRICT HOWARD CO. MARYLAND	DATE 5/14/86



TRAP F (8007 5)  
 DRAINAGE AREA = 2.05 ACRES  
 STORAGE 832 (2' = 9,690 CU FT.  
 LENGTH = 8.5 FT.  
 DEPTH = 2.75 FT.  
 BOTTOM EL. = 372.25  
 CLEANOUT EL. = 375.75  
 STORAGE PROVIDED = 4,244 CU FT.

TRAP G (8007 5)  
 DRAINAGE AREA = 2.45 ACRES  
 STORAGE 832 (2' = 4,410 CU FT.  
 PROVIDED = 5,106 CU FT.  
 LENGTH = 10 FT.  
 DEPTH = 3 FT.  
 BOTTOM EL. = 352.0  
 CLEANOUT EL. = 355.0



FLOOD PLAN DRAINAGE & UTILITY EMBLEM  
 HOWARD CO. SANITARY M.C. INC.  
 362 / 485  
 473 / 45

APPROVED  
 4-30-86  
*[Signature]*

ZONED R-ED

ZONED R-ED

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
*[Signature]* 5-21-86  
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC WORKS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 5-19-86  
 CHIEF ENGINEER

ENGINEER'S CERTIFICATE  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*[Signature]*  
 LAND SURVEYOR

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 PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS AS DEEMED NECESSARY.  
*[Signature]* 5/12/86  
 SIGNATURE OF DEVELOPER / BUILDER DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*[Signature]* 5-11-86  
 APPROVED DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
*[Signature]* 5/11/86  
 SIGNATURE DATE  
 U.S. SOIL CONSERVATION SERVICE

ENGINEERING LANDSCAPE DESIGN CONSTRUCTION CONTRACTING DEVELOPMENT COST PROPERTY DEVELOPMENT		LAND DESIGN ASSOCIATES 416 EAST JOPPA ROAD TOWSON MARYLAND 21204 (301) 321-0112	
DESIGNED R.L.W.	GRADING, AND SEDIMENT CONTROL PLAN		SCALE 1" = 30'
DRAWN R.L.W.	AUTUMN MANOR		DRAWING 4 of 5
CHECKED R.L.W.	SECTION 1, AREA LOTS 37-41, 45-49, 51-70, 72-70181-00 2ND ELECTION DISTRICT HOWARD CO. MARYLAND		JOB NO.
DATE 8/17/85	FOR: GRAYSON HOMES, INC. 9025 CHEVROLET DRIVE, SUITE K ELLICOTT CITY, MD 21043		FILE NO.



**GENERAL NOTES**

**PERMANENT SEEDING NOTES**

Apply to grades 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.

**Soil Amendments:** In lieu of soil test recommendations, use one of the following:

- 1) Pre-erred - 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) for the period March 1 thru April 30 and August 1 thru October 31.
- 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) for the period March 1 thru April 30 and August 1 thru October 31.

**Seeding -** For the periods March 1 thru April 30, and August 1 thru October 31, use 40 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 (0.07 lbs/1000 sq ft) of weeping lovegrass. During the period of October 1 thru March 31, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs per 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 emulsion on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

**TEMPORARY SEEDING NOTES**

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

**Seeded Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

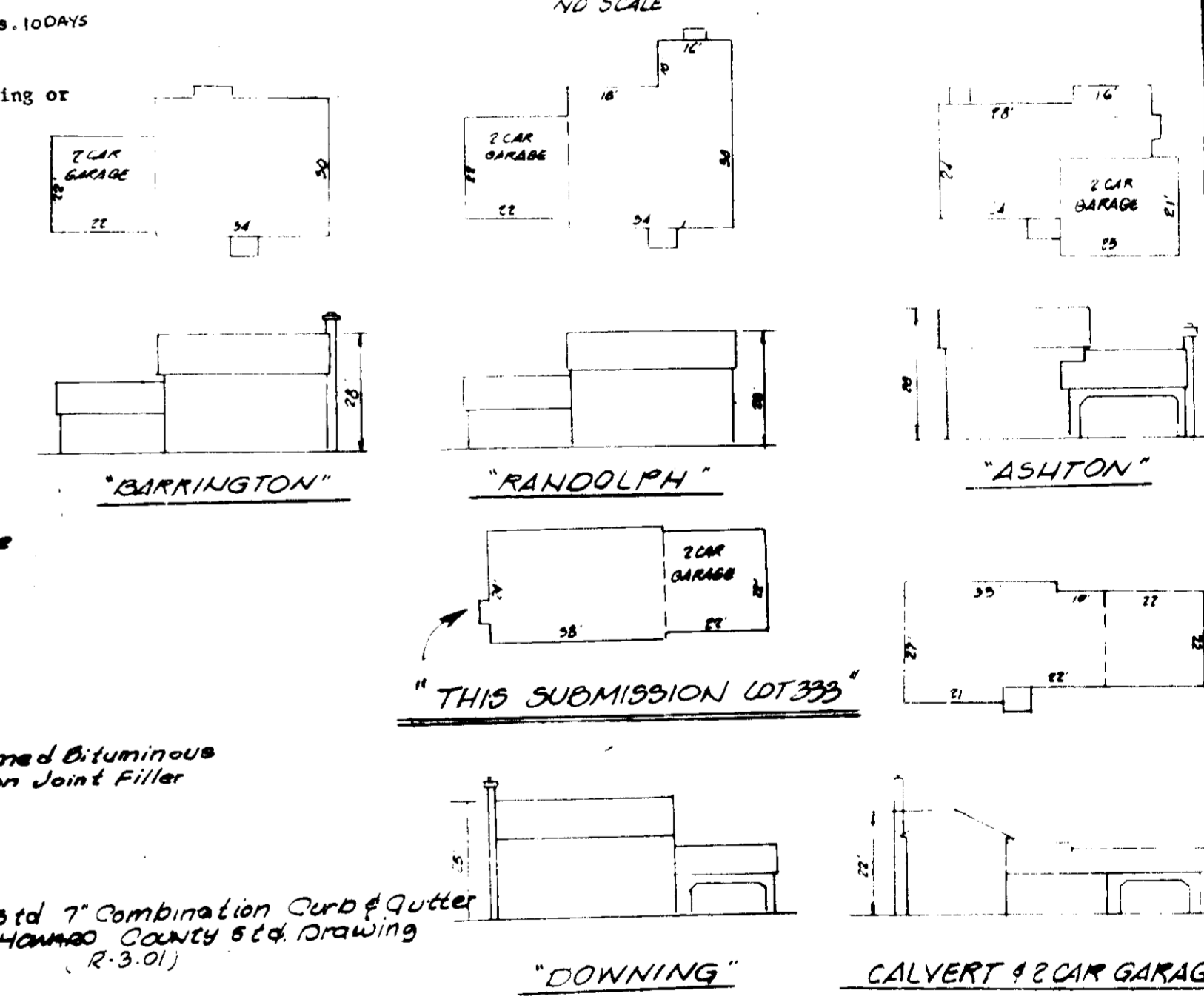
**Soil Amendments:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

**Seeding -** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 2 lbs per acre of weeping lovegrass (0.07 lbs/1000 sq ft). For the period November 1 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, if any.

**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 gal per acre (5 gal/1000 sq ft) of emulsified asphalt emulsion on areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

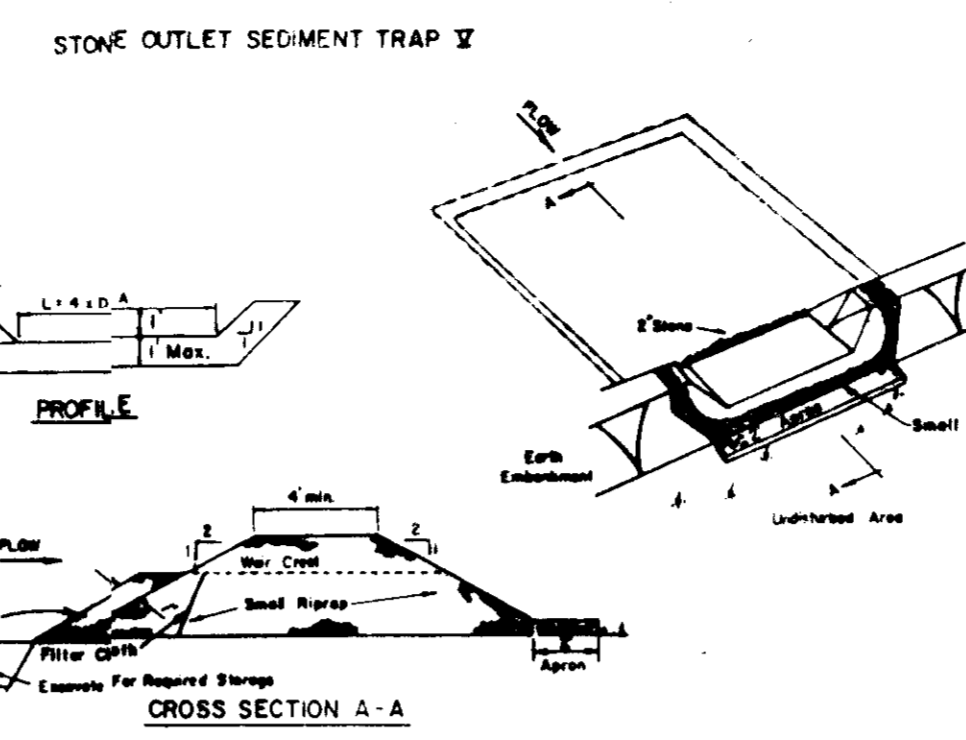
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.

**TYPICAL HOUSES**



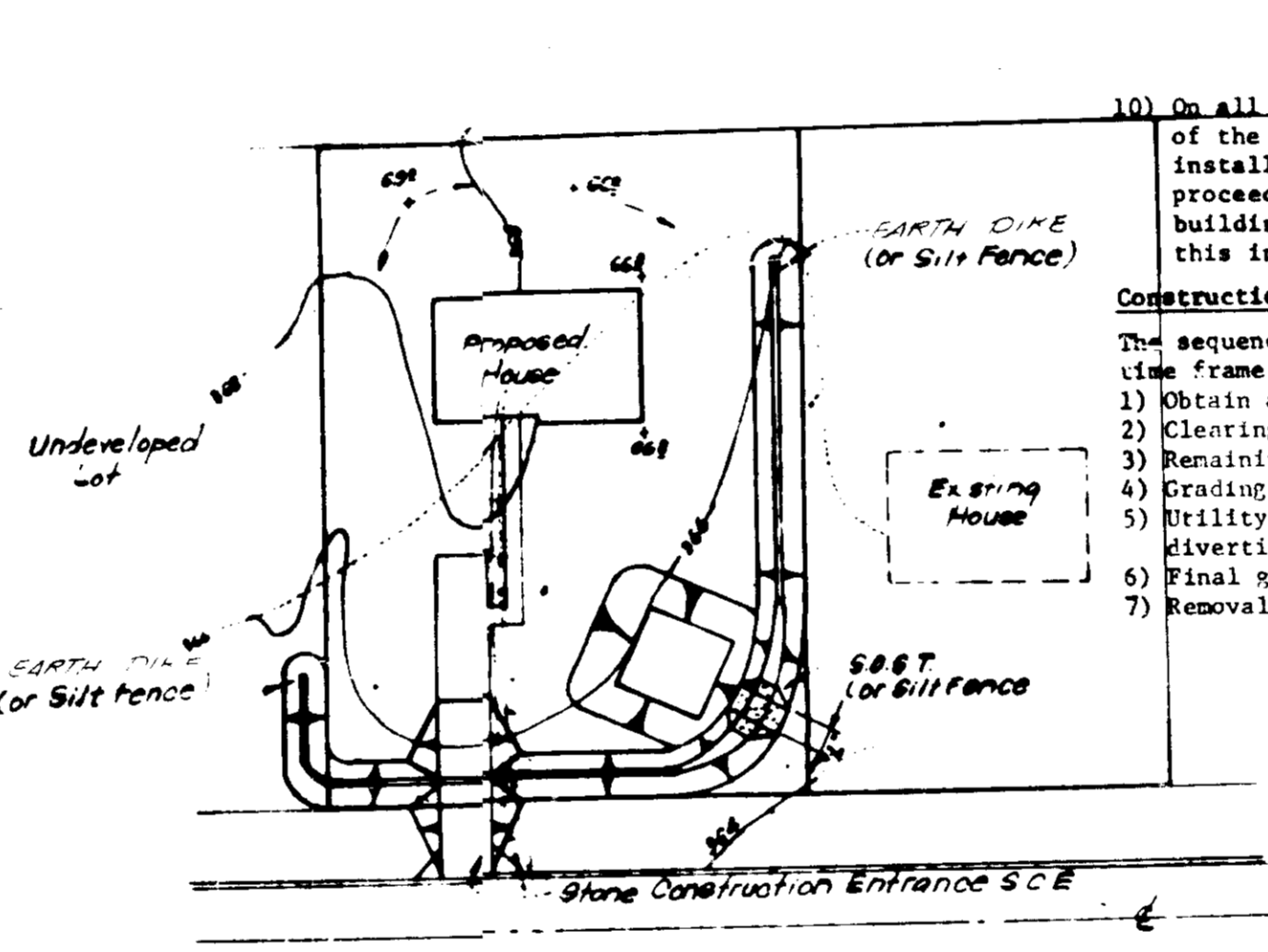
**SEDIMENT CONTROL NOTES**

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspections 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 redisturbance, 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 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) and (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 (Lots Only) 17.51 acres  
Area Disturbed 18.89 acres  
Area to be roofed or paved 8.70 acres  
Area to be vegetatively stabilized 9.36 acres  
Total Cut 19,800 Cu. yds  
Total Fill 19,800 Cu. yds  
Offsite waste/borrow area location NONE
- 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 controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.

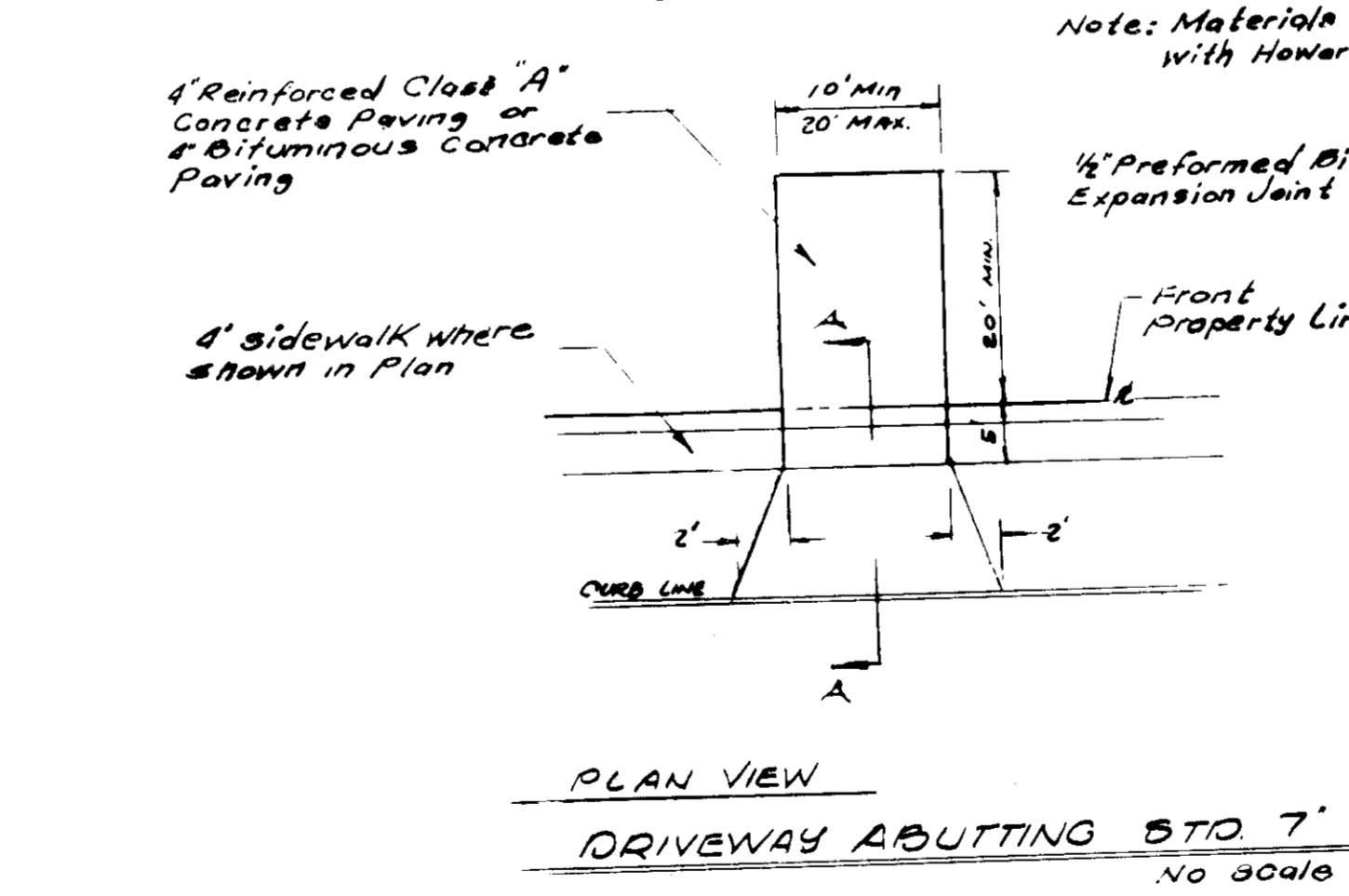


- OPTION:** A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.
- CONSTRUCTION SPECIFICATIONS FOR ST-V**
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  2. The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material 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 riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the upgrade side on the small riprap on embedded filter cloth in the riprap.
  5. Sediment shall be removed and trap 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**



**TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN**

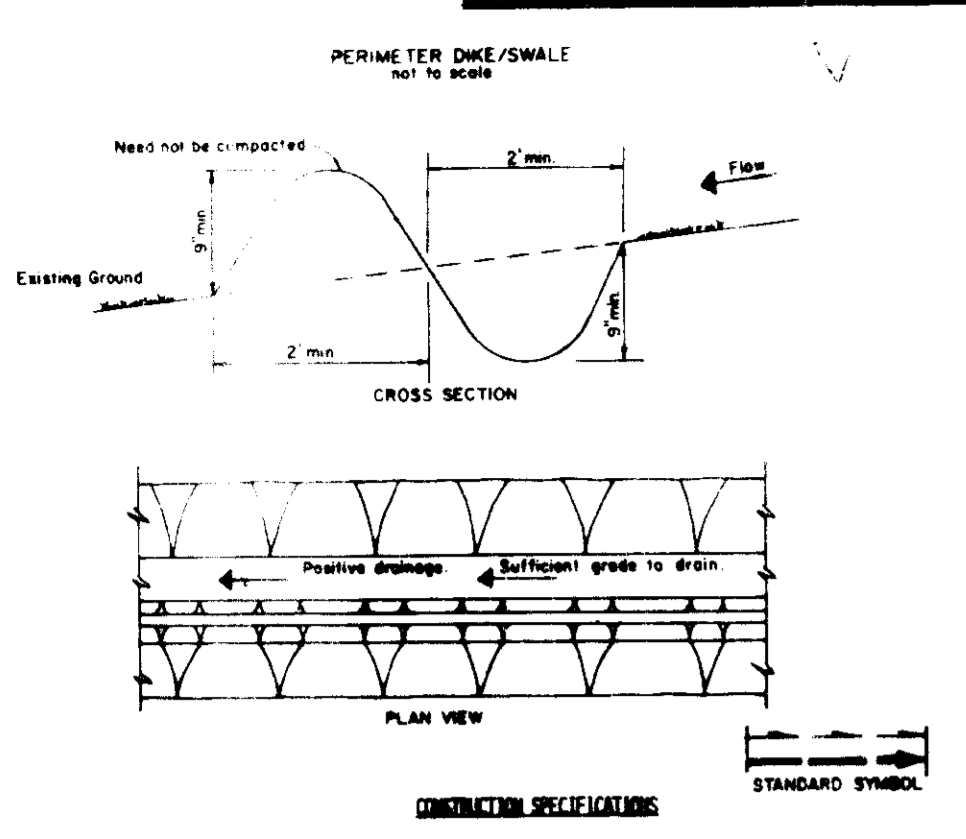


**DRIVEWAY ABUTTING 7' COMB. CURB & GUTTER**

**DEVELOPERS/BUILDERS 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 PERSONS INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION CONTROL BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OF THEIR AUTHORIZED AGENTS AS DEEMED NECESSARY.

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

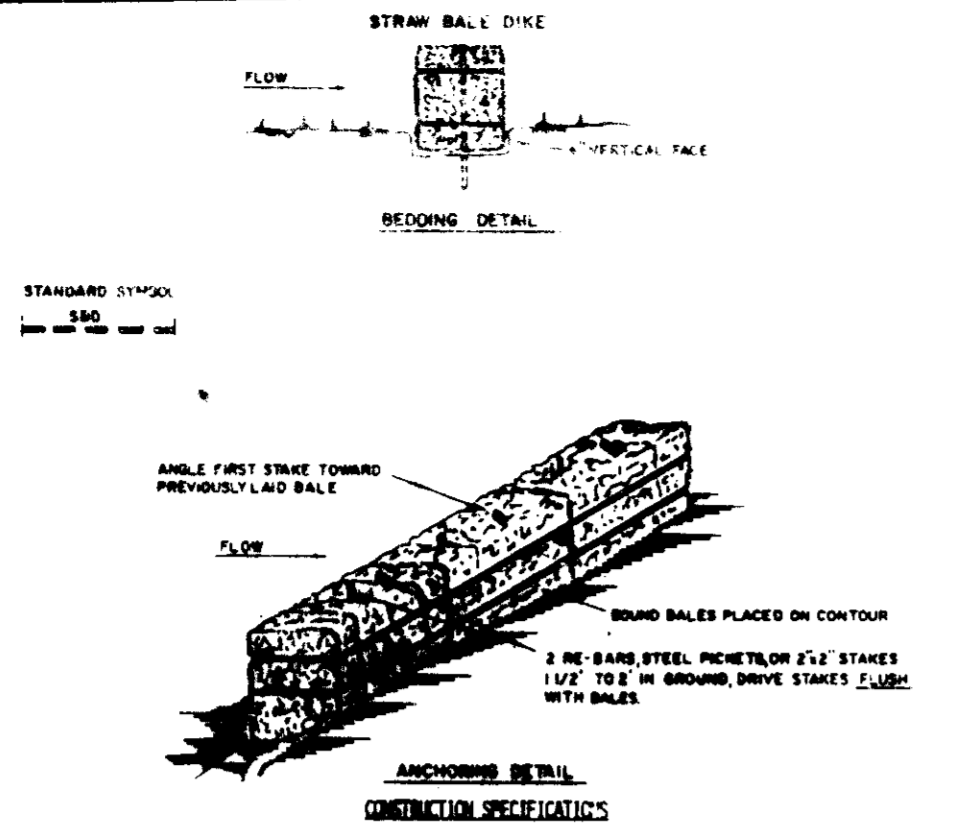
Signature of Developer/Builder: *Walter Pak* Date: *5/12/86*  
Signature of Land Surveyor: *Walter Pak* Date: *5/12/86*



- CONSTRUCTION SPECIFICATIONS**
1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE DRAINAGE TO AN OUTLET.
  2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
  3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT MINIMUM FLOW VELOCITY.
  4. THE SWALE SHALL BE EQUIPPED WITH A LINE, GROUND, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
  5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SEED AND STRAW MULCH. MULCH SHALL BE DONE WITHIN 30 DAYS.
  6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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

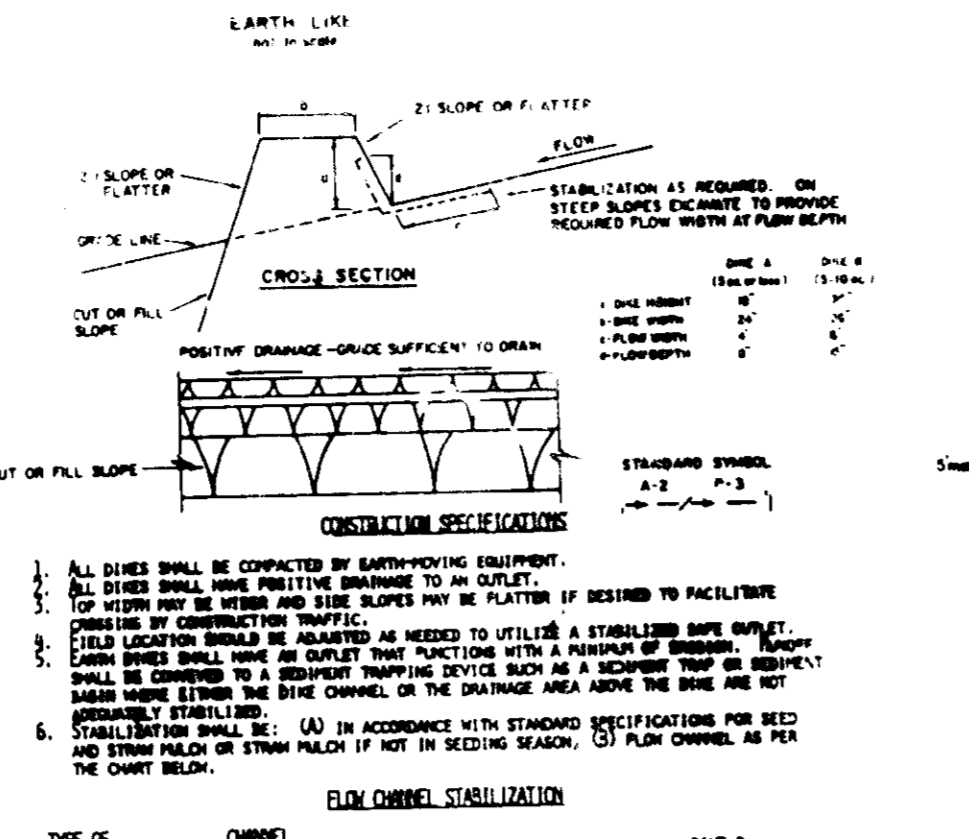
PERIMETER DIKE/SWALE  
STANDARD DRAWING  
PDS-1



- CONSTRUCTION SPECIFICATIONS**
1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ONE TIGHTLY BUTTING THE ADJACENT BALE.
  2. EACH BALE SHALL BE SPACED IN THE ROW A MINIMUM OF (3) INCHES, AND PLACED SO THE BIRDS ARE HORIZONTAL.
  3. BALES SHALL BE TIGHTLY INTERLOCKED IN PLACE BY EITHER TWO STAGES OF RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAGE IN EACH BALE SHALL BE DRIVEN THROUGH THE BALE FLAT WITH THE BALE AT AN ANGLE TO FORCE THE BALE TOGETHER. STAGES SHALL BE DRIVEN FLAT WITH THE BALE.
  4. INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPERE STORM FLOW OR DRAINAGE.

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

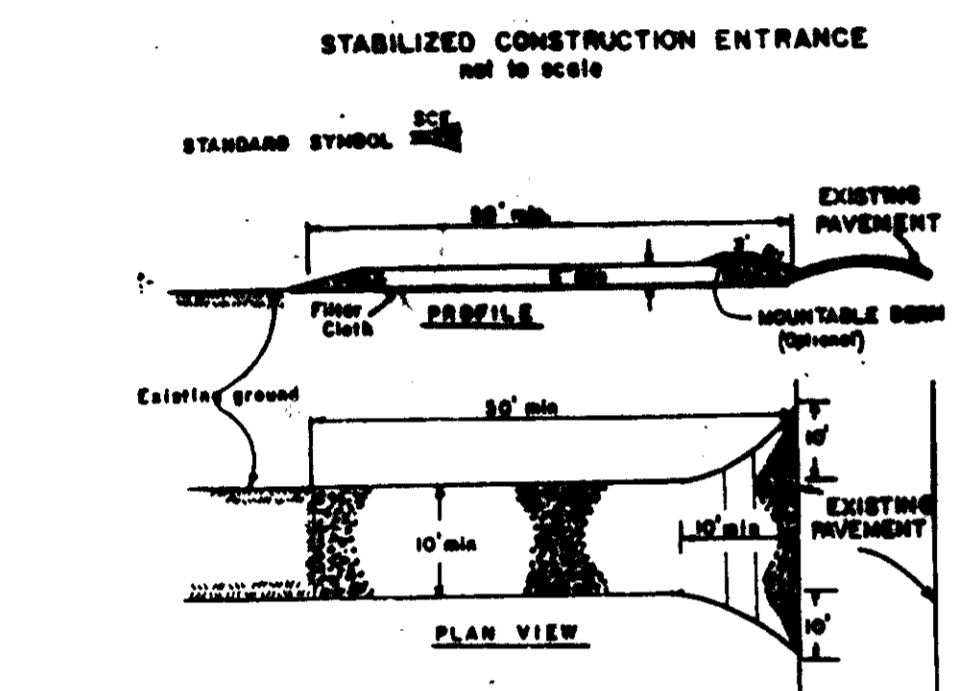
STRAW BALE DIKE  
STANDARD DRAWING  
SDC-1



- CONSTRUCTION SPECIFICATIONS**
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
  2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  3. TOP SURF SHALL BE LEVEL AND SLOPE SHALL BE FLATTER IF DESIRED TO FACILITATE PASSAGE BY CONSTRUCTION EQUIPMENT.
  4. STABILIZATION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SEED AND STRAW MULCH. MULCH SHALL BE DONE WITHIN 30 DAYS.
  5. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

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

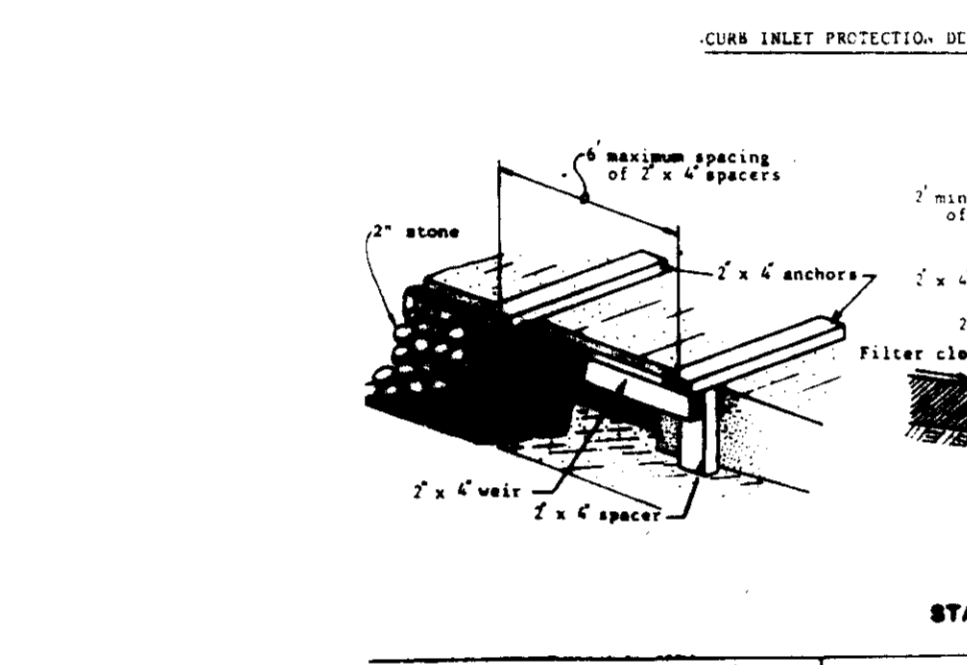
EARTH DIKE  
STANDARD DRAWING  
ED-1



- CONSTRUCTION SPECIFICATIONS**
1. Stone size - Use 2" stone, or recycled 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 8" (4" for concrete).
  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 on a single family residence lot.
  6. Surface Water - All surface water flowing or directed toward construction entrance shall be piped across the entrance. If piping is impractical, a mountable beam with 3:1 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 conditions demand and repair and/or placement of any measures used to trap sediment. All sediment applied, sprayed, washed or treated 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.

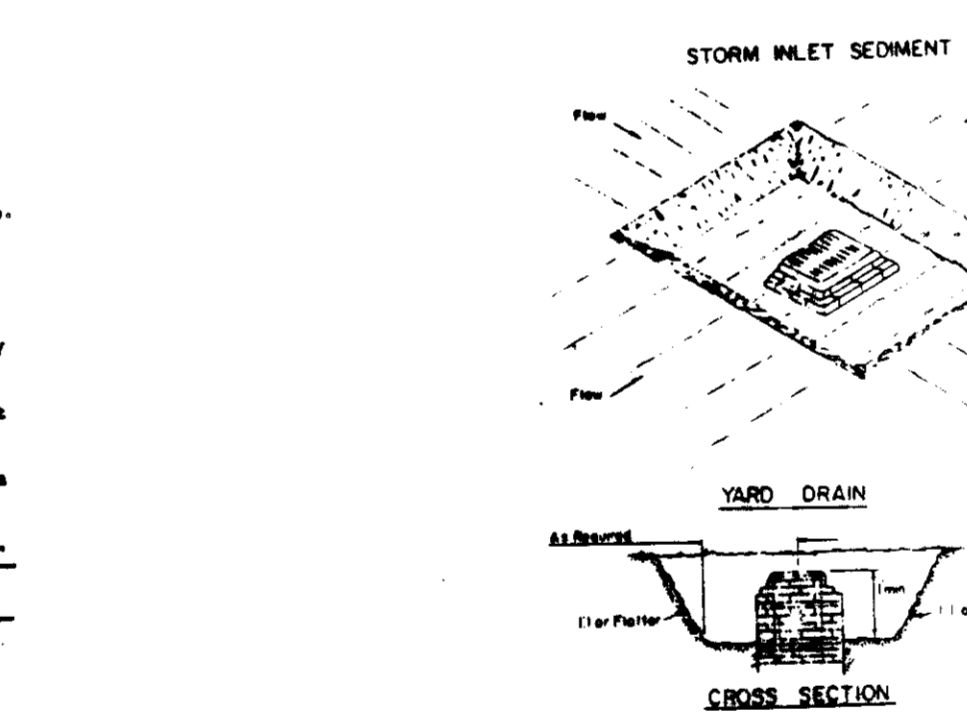
U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
COLLEGE PARK, MD.

STABILIZED CONSTRUCTION ENTRANCE  
STANDARD DRAWING  
SDC-2



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

INLET PROTECTION  
STANDARD DRAWING  
IPD-1



- CONSTRUCTION SPECIFICATIONS FOR ST-III**
1. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
  2. The volume of sediment storage shall be 1800 cubic feet per acre of contributory drainage.
  3. The structure shall be inspected after each rain and repairs made as needed.
  4. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.
  6. All cut slopes shall be 1:1 or flatter.

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

STORM INLET SEDIMENT TRAP  
STANDARD DRAWING  
ST-III

**APPROVED**  
4-30-86

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*John P. Redman* 5-21-86  
COUNTY HEALTH OFFICER

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*John P. Redman* 5-22-86  
COUNTY PLANNING & ZONING OFFICER

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*John P. Redman* 5-14-86  
DEPT. OF PUBLIC WORKS

REVIEWED FOR HOWARD S.C.D. AND  
MEETS TECHNICAL REQUIREMENTS.  
*John P. Redman* 5-14-86  
SIGNATURE DATE  
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED  
FOR SOIL EROSION AND SEDIMENT CONTROL  
BY THE HOWARD SOIL CONSERVATION DISTRICT  
*John P. Redman* 5/14/86  
SIGNATURE DATE  
APPROVED

ENGINEERING  
LANDSCAPE DESIGN  
CONSTRUCTION CONTRACTING  
DEVELOPMENT COST  
PROPERTY DEVELOPMENT

**LAND DESIGN ASSOCIATES**  
416 EAST JOPPA ROAD  
TOWSON MARYLAND 21284  
(301) 321-0112

DESIGNED: R.L.W.  
DRAWN: R.L.W.  
CHECKED: R.L.W.  
DATE: 8/23/85

FOR GRAYSON HOMES, INC.  
3005 CHERRYBROOK DRIVE, SUITE A  
ELLIOTT CITY, MD 21043

DETAILS  
GRADING, AND SEDIMENT CONTROL PLAN  
**AUTUMN MANOR**  
SECTION 1 AREA  
LOTS 97-91 & 92-94, 95-98, 99-102 & 103-106  
DULLENTON DISTRICT, HOWARD COUNTY, MARYLAND

SCALE: 1" = 10'-0"

FILE NO.

SDP-86-90