

GENERAL NOTES

1. Subject property zoned R-20 as per Townships of zoning Plan dated R-2-85.
 2. The coordinates shown hereon are based on The Maryland State Grid System and derived from the following H.C. Control Stations 2644004 and 2644005.
 3. All roads are public and existing.
 4. Any damage to county owned right-of-ways to be corrected at the developers expense.
 5. Total area included 11.98 Acres.
 6. Total number of lots 30.
 7. The Contractor or Developer shall notify the Construction Inspector, Survey Division, 24 hrs. in advance of commencement of work at 782-2630.
 8. Reference file numbers S-87-26 WP-88-58, P-87-88 and F-88-186.
 9. Existing Topo taken from Clearing, Demolition and Sediment Erosion Control Plan prepared by Fisher, Collins and Carter, Inc. on 6-20-88.
- * (A waiver petition to reduce the minimum public road frontage to 13.33' from lots #18, 18B & 18C of the preliminary plan. The waiver petition was denied Nov 24, 1987.)

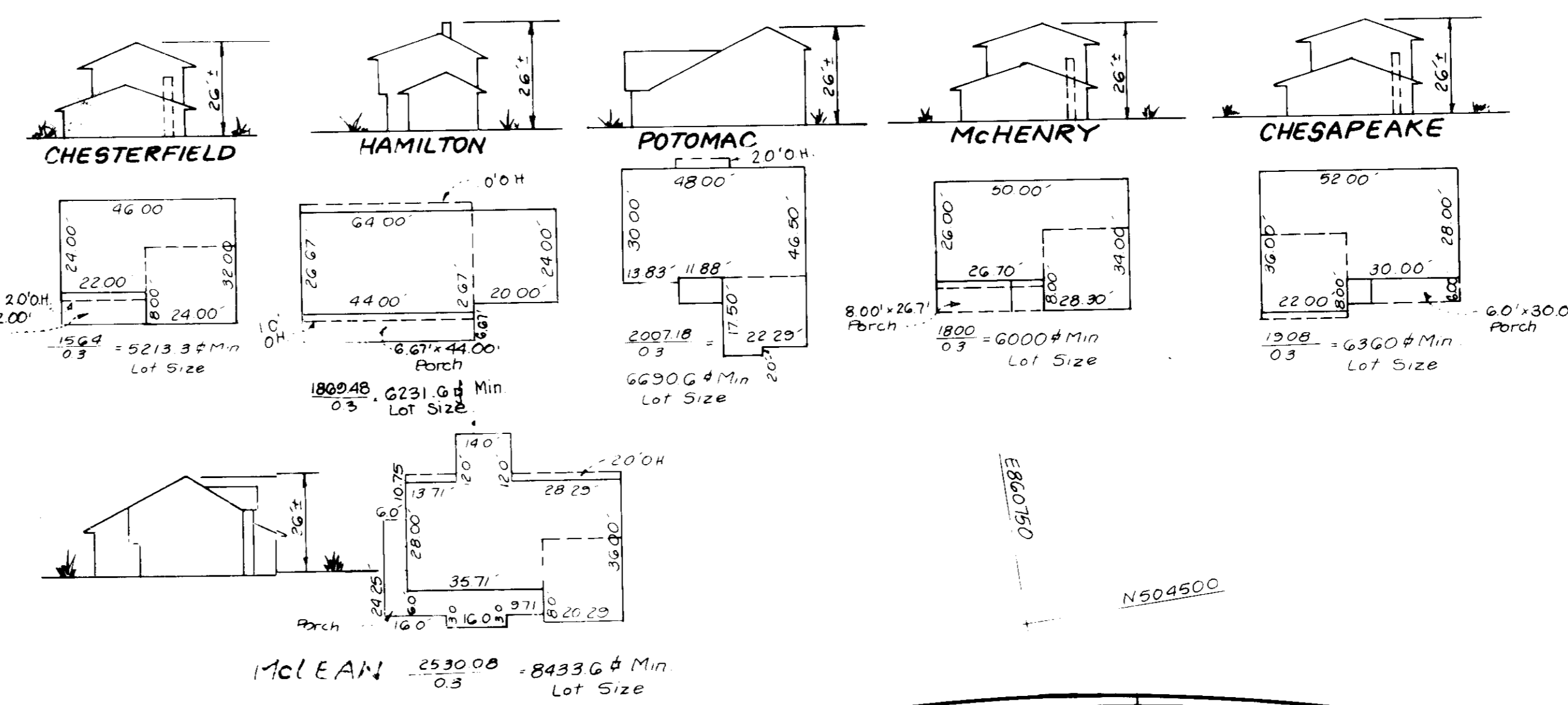
SPECIAL NOTES

1. Approved road construction plans shall be used for all public utilities.
2. The water and sewer shown is for reference only. For more detailed information see water and sewer plan Contract No. 14-1811-D.
3. The water and sewer house connections not included in a Developers Agreement shall conform to Howard County Plumbing Code. The on-site WHC shall be 1" copper the SHC shall be 4" iron.
4. Stormwater Management provided for in F-88-186.

VICINITY MAP
Scale 1" = 800'



TYPICAL HOUSES
No Scale

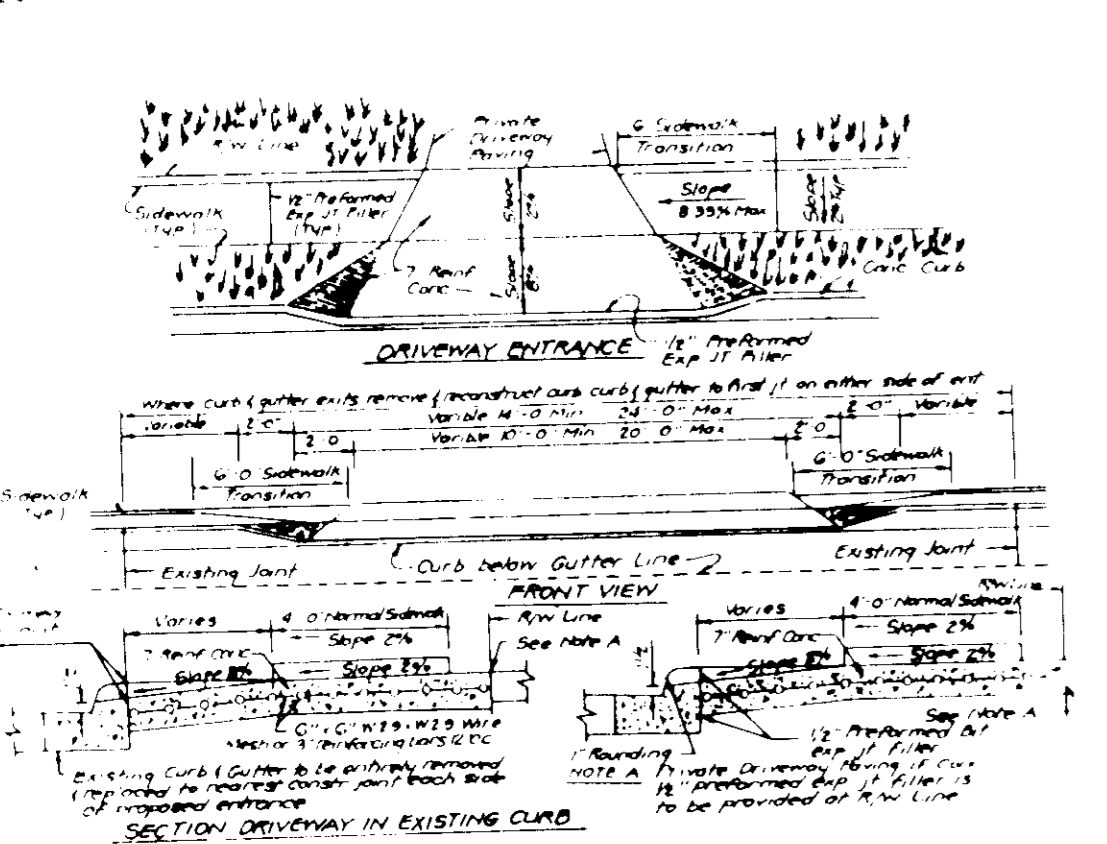


LEGEND

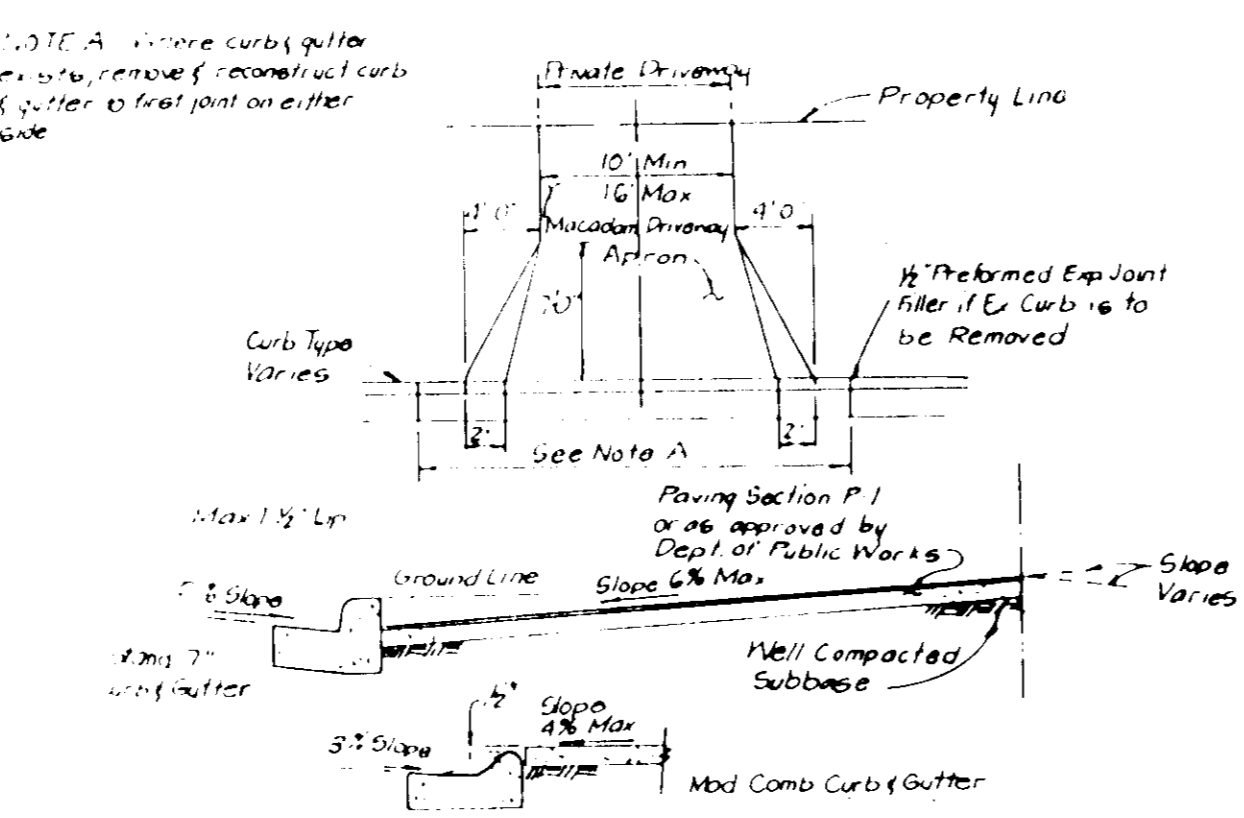
- Contour Interval 2 FT
- Existing Contour 2 FT
- Proposed Contour 4 FT
- Spot Elevation +10%
- Director of Drainage Walk out Basement
- Ext. Trees to be Saved

ADDRESS CHART

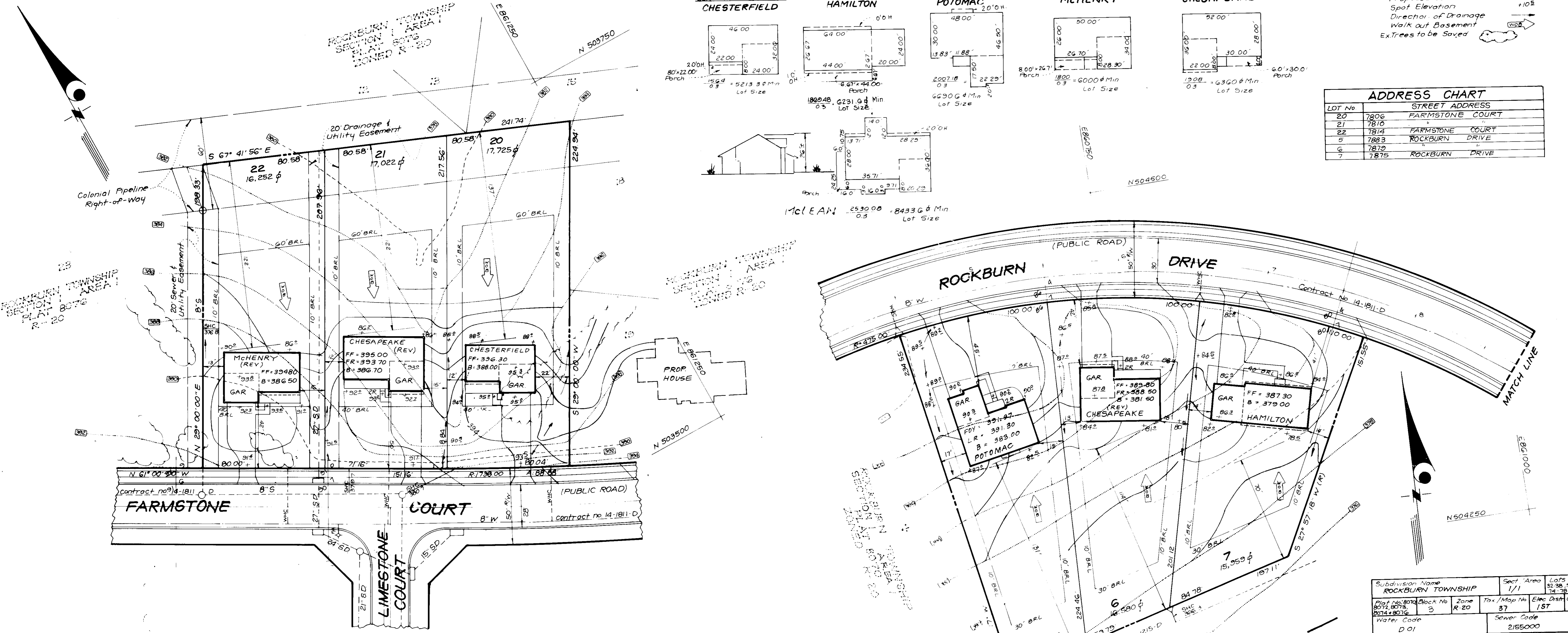
LOT No	STREET ADDRESS
20	7806 FARMSTONE COURT
21	7810 " "
22	7814 FARMSTONE COURT
5	7883 ROCKBURN DRIVE
6	7879 " "
7	7875 ROCKBURN DRIVE



DRIVEWAY ABUTTING CLOSED SECTION WITH STD 7" COMB CURB & GUTTER & SIDEWALK SET BACK FROM CURB



DRIVEWAY ABUTTING CLOSED SECTION WITHOUT CONCRETE SIDEWALK



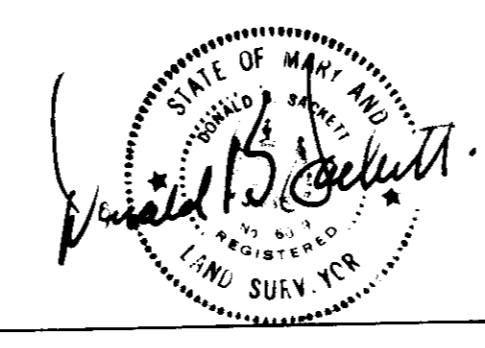
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICE DATE 6-12-89

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR DATE 6-27-89

CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE 6-19-89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR DATE 6-2-89

NO.	REVISION	DATE
1	Rev. house & grade on lots 5, 8, 19 & 16 as per architectural review committee. Rev. grading on lots 6, 7, 15, 22, 53, 74, 32 & 34 as per architectural review committee.	4-6-89



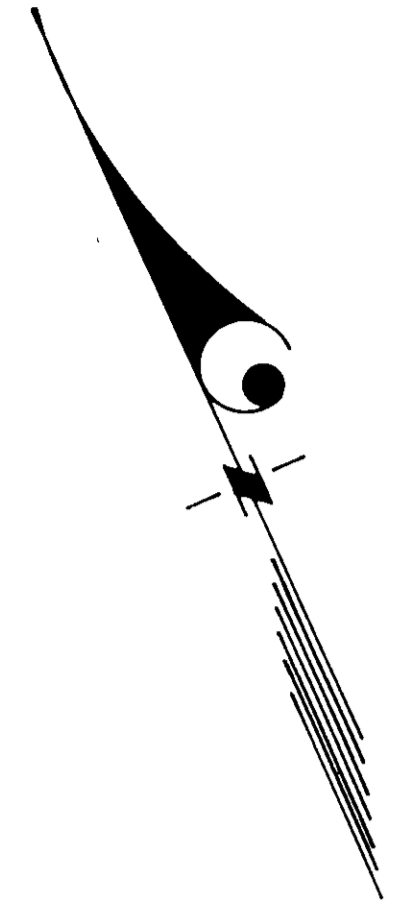
Owner/Developer:
Rockburn Township Limited Partnership
c/o Berkshire Corporation
Suite 204, The Gatehouse at North Park
Cockeysville, Maryland 21043

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7115 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 • FAX (301) 381-7500

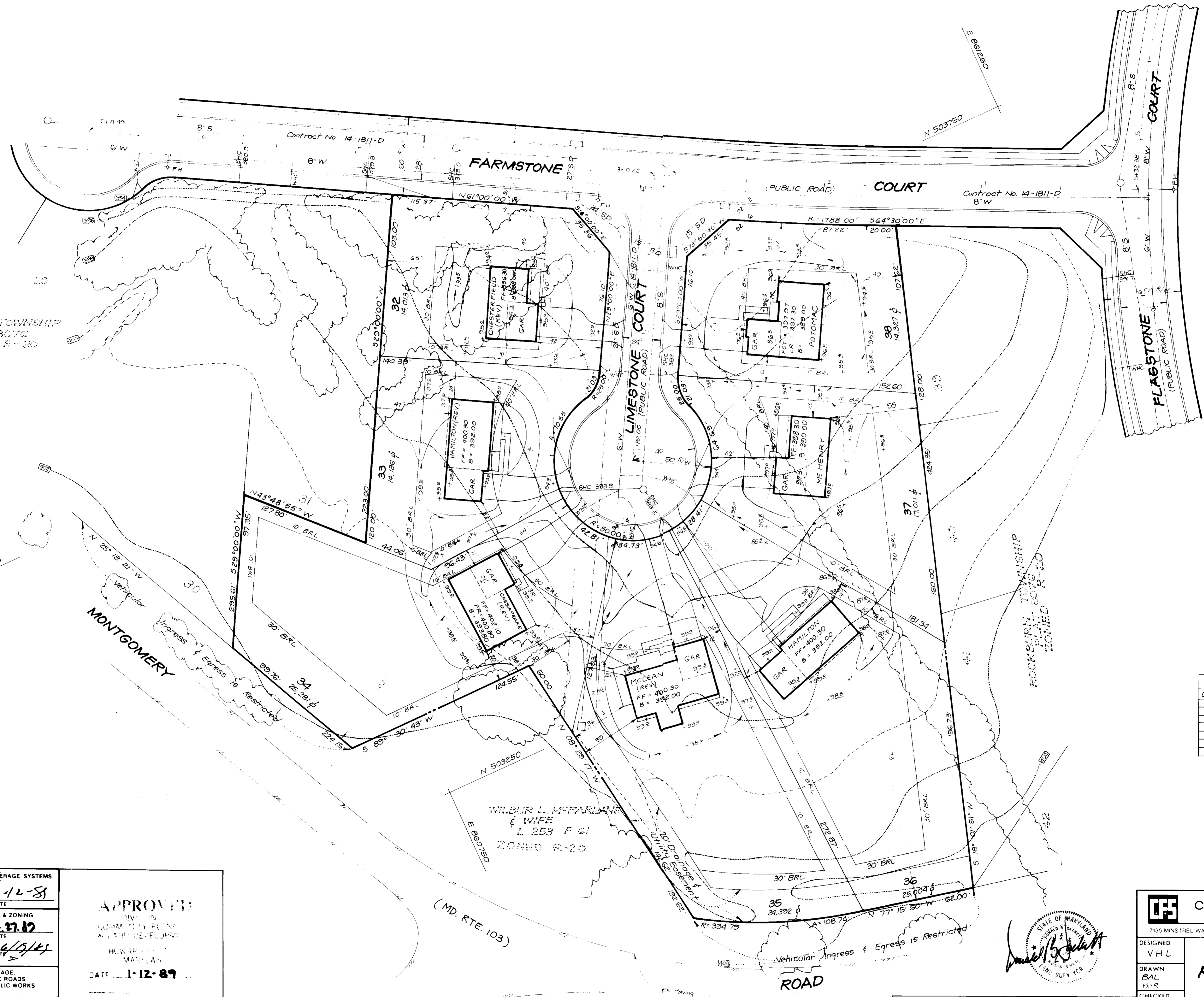
SITE DEVELOPMENT PLAN
LOTS 5-17, 20-22, 32-33, 52 & 53, 74-78
ROCKBURN TOWNSHIP
SECTION 1 AREA 1
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DESIGNED VHL
DRAWN BAL
CHECKED J.M.E.
DATE Dec., 1988

SCALE 1" = 30'
DRAWING 1 OF 7
JOB NO. 88-149
FILE NO. 88-149X



ROCKBURN TOWNSHIP
PLAT 8076
ZONED R-20



ADDRESS CHART		
LOT NO.	STREET	ADDRESS
32	7800	LIMESTONE COURT
33	7804	"
34	7808	"
35	7812	"
36	7800	"
37	7805	"
38	7801	LIMESTONE COURT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 6-12-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 6-27-89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 1-12-89

APPROVED:
DATE: 1-12-89

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7200 - BALTO • (301) 621-8100 - WASH

DESIGNED VHL	SITE DEVELOPMENT PLAN LOTS 5-17, 20-22, 32-38, 52 & 53, 74-78 ROCKBURN TOWNSHIP SECTION 1 AREA 1 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN BAL		DRAWING 2 OF 7
CHECKED JME		JOB NO. 88-149
DATE Dec 1988		FILE NO. 88-149X
FOR: THE RYLAND GROUP, INC. 7130 Minstrel Way Suite 215 Columbia, Md 21045		

Owner/Developer: Danville I Associates
% Lowell Corporation
7770 New York Lane
Glen Burnie, Maryland 21061



ADDRESS CHART	
LOT NO	STREET ADDRESS
8	7849 ROCKBURN DRIVE
9	7806 FIELDSTONE COURT
10	7804 " "
11	7814 " "
12	7811 " "
13	7807 " "
14	7803 FIELDSTONE COURT
15	7839 ROCKBURN DRIVE
16	7800 FLAGSTONE COURT
17	7804 FLAGSTONE COURT
52	7805 " "
53	7801 FLAGSTONE COURT
74	7830 ROCKBURN DRIVE
75	7834 " "
76	7838 " "
77	7842 " "
78	7846 ROCKBURN DRIVE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 6-12-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *[Signature]* DATE: 6-17-89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 6-13-89

CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 6-13-89

APPROVED
 DATE: 1-12-89

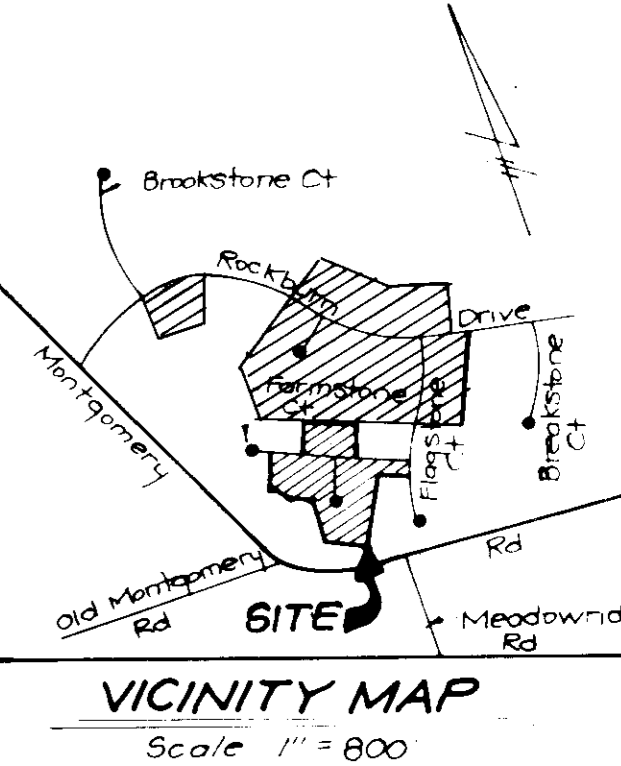
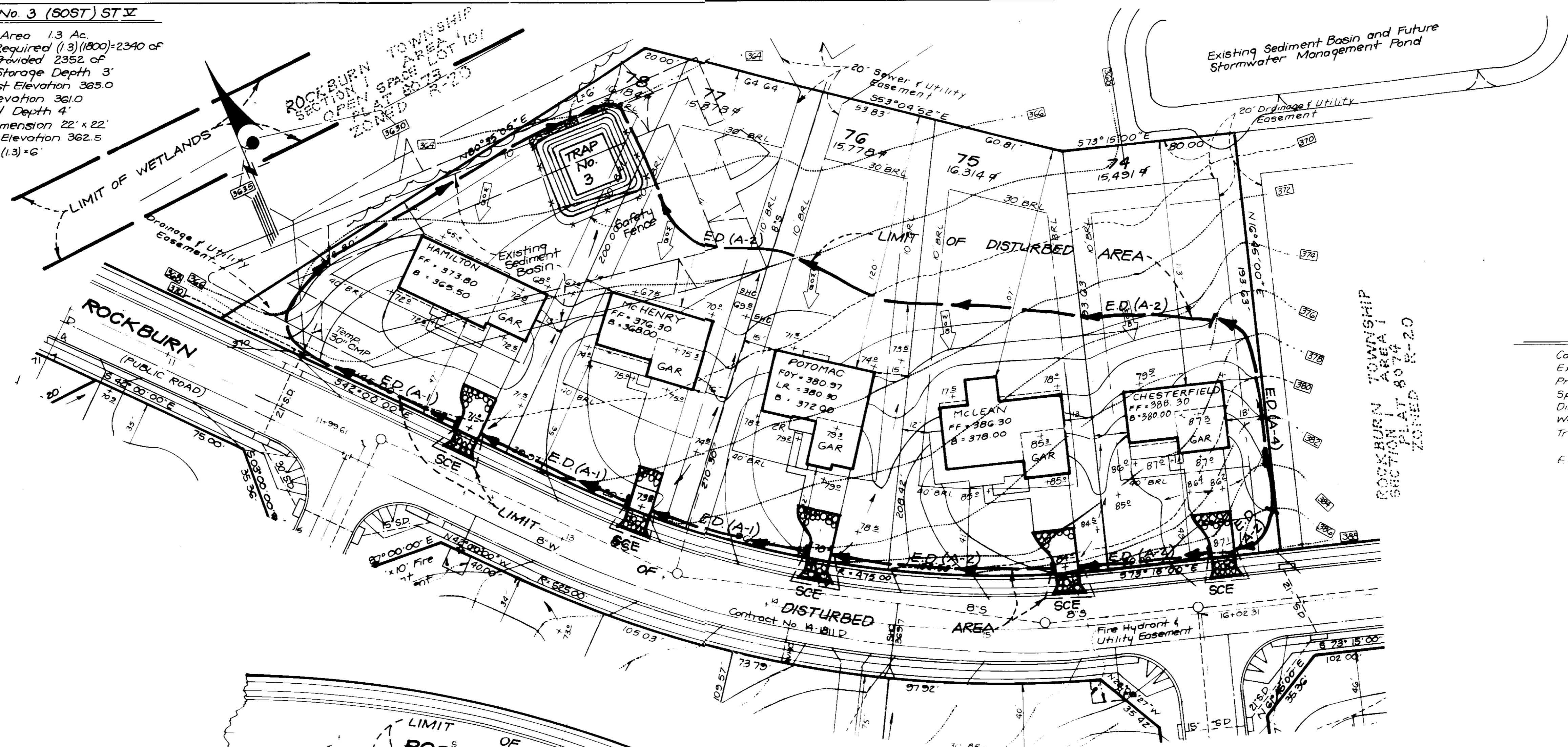


Owner/Developer: Danville I Associates
 56 Lowell Corporation
 7770 New York Lane
 Glen Burnie, Maryland 21061

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 710 MINISTREL WAY • COLUMBIA, MD 21046 • (301) 381-2200 • BALTO • LANDOVER, MD • WASH		
DESIGNED VHL	SITE DEVELOPMENT PLAN LOTS 5-17, 20-22, 32-38, 52, 54, 53, 74-78 ROCKBURN TOWNSHIP SECTION 1 AREA 1 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR THE RYLAND GROUP INC. 7130 Minstrel Way, Suite 215 Columbia, Maryland 21043	SCALE 1" = 30'
DRAWN BAL BAR		DRAWING 3 OF 7
CHECKED J.M.E.		JOB NO 88-149
DATE Dec. 1988		FILE NO 88-149X

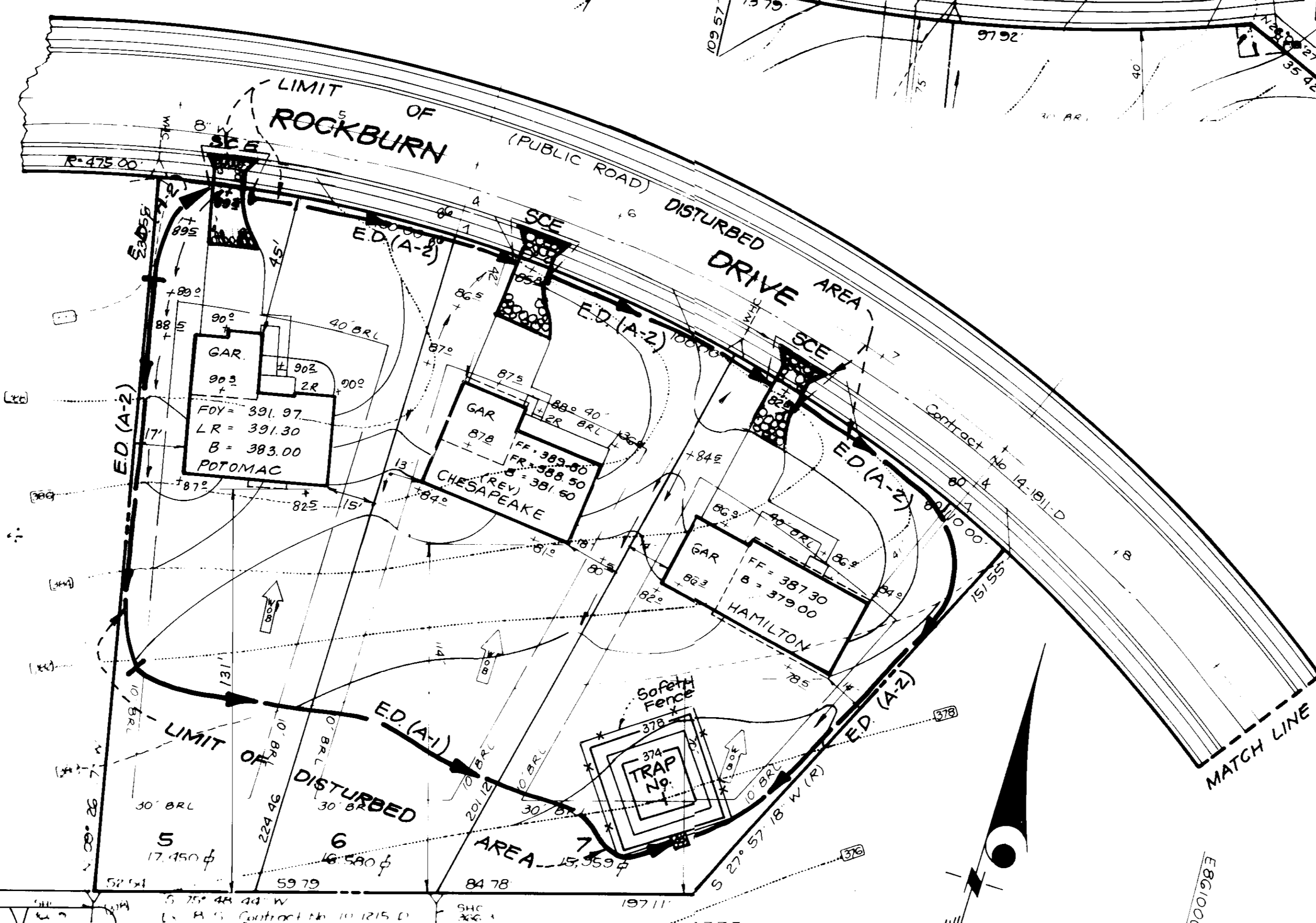
TRAP No. 3 (SOST) ST XV

Drainage Area 1.3 Ac.
 Storage Required (1.3)(1800)=2340 cf
 Storage Provided 2352 cf
 Available Storage Depth 3'
 Stone Crest Elevation 365.0
 Bottom Elevation 361.0
 Excavated Depth 4'
 Bottom Dimension 22' x 22'
 Clean out Elevation 362.5
 L = 4(1.3)=6'



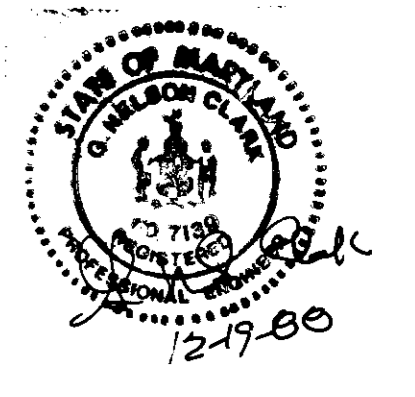
LEGEND

- Contour Interval 2 FT
- Existing Contour (solid line)
- Proposed Contour (dashed line)
- Spot Elevation (+10)
- Direction of Drainage (arrow)
- Walk out Basement (dashed line)
- Trees to be Saved (cloud symbol)
- Existing Trees (cloud symbol)



DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and site 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 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 or their authorized agents, as are deemed necessary.
 Signature of Developer/Builder: *Amica M. Simpkins*
 Date: 12-12-88

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: *G. Nelson Clark*
 Date: 12-19-88

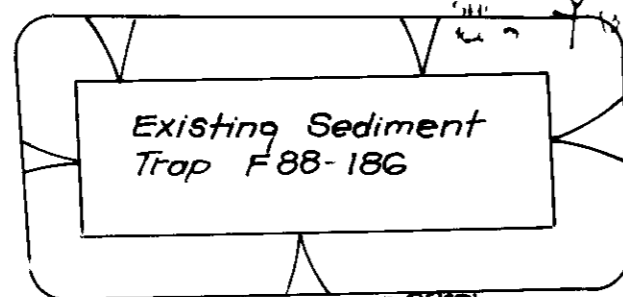


Reviewed for... HOWARD S.C.D.
 Name: *[Signature]*
 and meet Technical Requirements: 5/23/89
 Signature: *[Signature]*
 U.S. Soil Conservation Service
 Date: 5/23/89

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved: *[Signature]*
 Date: 5/23/89

APPROVED
 1-12-89

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 6-12-89
 APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *[Signature]* DATE: 6-27-89
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *[Signature]* DATE: 6-13-89
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 6-12-89
 CHIEF BUREAU OF ENGINEERING: *[Signature]* DATE: 6-12-89



TRAP No. 1 (SOST) ST XV
 Drainage Area 1.0 Ac.
 Storage Required (1.0)(1800)=1800 cf
 Storage Provided 1878 cf
 Stone Crest Elevation 378.0
 Bottom Elevation 374.0
 Available Storage Depth 3'
 Excavated Depth 4'
 Bottom Dimensions 13' x 13'
 Clean out Elevation 375.5
 L = 4(1.0)=4'

Owner/Developer:
 Danville I Associates
 46 Local Corporation
 7779 New York Lane
 Glen Burnie, Maryland 21061

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 Minstrel Way Columbia, Md. 21045 • 301-381-7500 Baltimore • 301-621-8100 Wash.
 DESIGNED: GLB
 DRAWN: BAL
 CHECKED: GLB
 DATE: Dec. 1988
SEDIMENT & EROSION CONTROL PLAN
 LOTS 5-17, 20-22, 32-38, 52 & 53, 74-78
ROCKBURN TOWNSHIP
 SECTION 1 AREA 1
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR THE RYLAND GROUP INC.
 7130 Minstrel Way Suite 215
 Columbia, Md 21045
 SCALE: 1" = 30'
 DRAWING: 4 OF 7
 JOB NO: 88-149
 FILE NO: 88-149-SDP

SDP-89-122

TRAP No. 2 (S0ST ST V)

Drainage Area 1.3 Ac.
 Storage Required 1.3 x 1800 = 2340 cf
 Storage Provided 2394 cf
 Available Storage Depth 3
 Stone crest Elevation 376.0
 Bottom Elevation 372.0
 Excavated Depth 4
 Bottom Dimensions 32' x 15'
 Clean Out Elevation 373.5
 L = 4(1.3) = 6'

ROCKBURN TOWNSHIP
 SECTION I AREA I
 PLAT 8075
 ZONED R-20

TRAP No. 4 SIST (ST III)

Drainage Area 0.8 Ac.
 Storage Required (0.8)(1800) = 1440 cf
 Storage Provided 1452 cf
 Crest (Slot Elev.) 174.4
 Depth = 3
 Bottom Elev. 171.4
 Bottom Dimensions 16' x 16'
 Clean Out Elev. 172.9
 1:1 Slopes

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and also for erosion and sediment control and that responsible personnel involved in the construction project will have a Certificate of Approval from the Dept. of Natural Resources Approved Construction Program for the Control of Sediment and Erosion before the start of the project. It also certifies periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as may be deemed necessary."

Maureen M. Smith 12.12.88
 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."

G. Nelson Clark 12-19-88
 Date



Reviewed for HOWARD S.C.D.
 Name: *James T. Smith*
 Signature: *James T. Smith*
 Date: 5/23/89
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen L. Hill 5/23/89
 Approved Date

Owner/Developer:
 Danville I Associates
 96 Lowell Corporation
 9700 New York Lane
 Glen Burnie, Maryland 21061

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
John P. Smith 6-12-85
 COUNTY HEALTH OFFICER DATE

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING
John P. Smith 6-27-89
 PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John P. Smith 6-17-89
 DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING
John P. Smith 6-17-89
 DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
John P. Smith 6-12-85
 COUNTY HEALTH OFFICER DATE

APPROVED FOR HOWARD COUNTY OFFICE OF PLANNING & ZONING
John P. Smith 6-27-89
 PLANNING DIRECTOR DATE

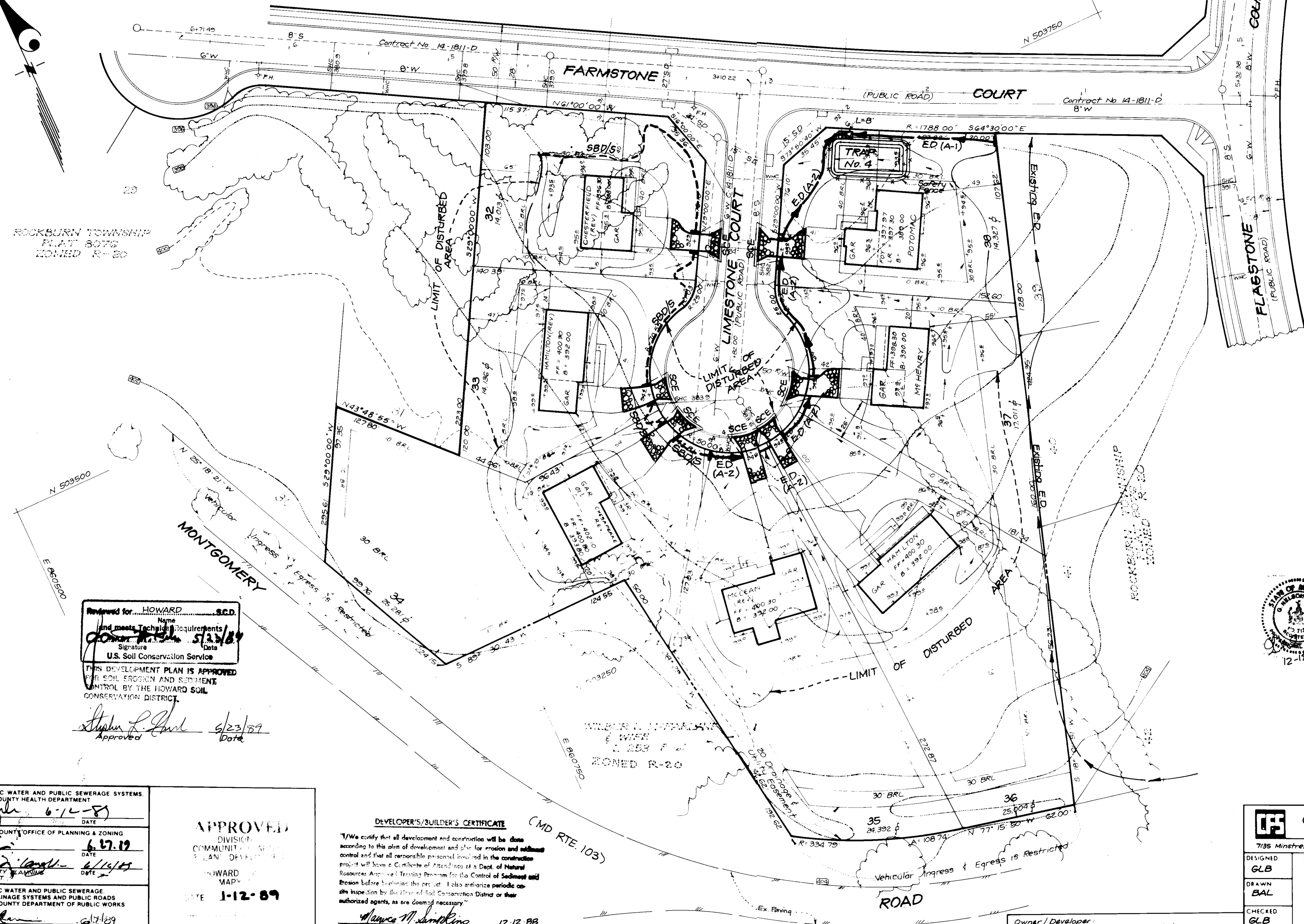
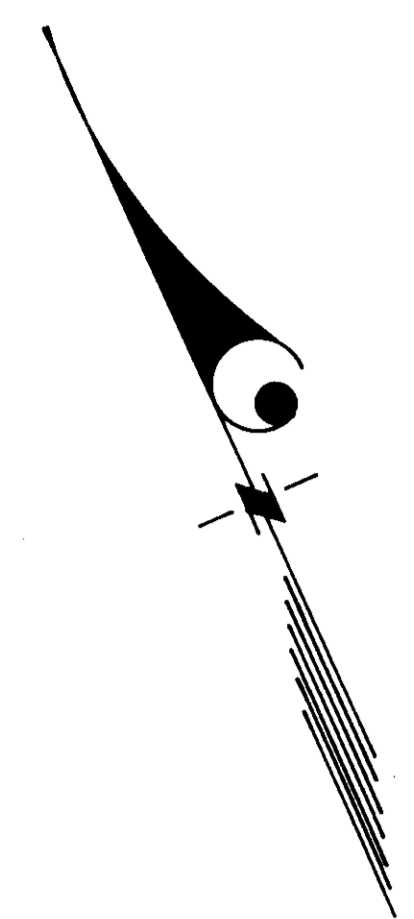
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John P. Smith 6-17-89
 DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING
John P. Smith 6-17-89
 DATE

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7185 Minstrel Way Columbia, Md 21045 • 301-381-7500 Balt. • 301-621-8100 Wash.		
DESIGNED GLB	SEDIMENT & EROSION CONTROL PLAN LOTS 5-17, 20-22, 32-38, 52 & 53, 74-78	SCALE 1" = 30'
DRAWN BAL	ROCKBURN TOWNSHIP SECTION I AREA I	DRAWING 5 OF 7
CHECKED GLB	1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 88-149
DATE Dec. 1988	FOR THE RYLAND GROUP, INC. 7130 Minstrel Way Suite 215 Columbia, Md. 21045	FILE NO. 88-149S

TRAP No. 4 SOST (ST V)

Drainage Area 1.8 Ac.
 Storage Required (1.8)(1800) = 3,240 CF
 Storage Provided 3,268 CF
 Available Storage Depth 4"
 Stone Crest Elevation 393.0
 Bottom Elevation 388.0
 Excavated Depth 5"
 Bottom Dimensions 15' x 20'
 Clean Out Elevation 390.0
 1:1 Side Slopes
 L = 4(1.8) = 8'



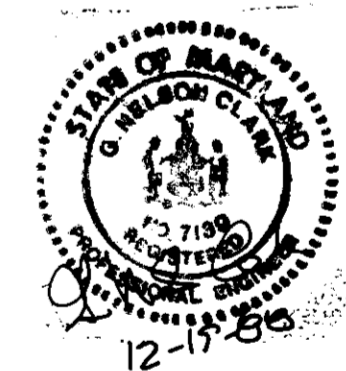
ROCKBURN TOWNSHIP
 PLAT 8076
 ZONED R-20

MONTGOMERY

Reviewed for HOWARD S.C.D.
 Name
 and meets Technical Requirements
 Signature
 Date
 U.S. Soil Conservation Service

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

Approved *Stephen L. Ford* 6/23/89
 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 Conserva-
 tion District.

G. Nelson Clark 12/17/88
 G. Nelson Clark Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT <i>John Zyle</i> 6-12-89 COUNTY HEALTH OFFICER DATE	APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING <i>John Zyle</i> 6/27/89 PLANNING DIRECTOR DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>James P. Ray</i> 6/14/89 DIRECTOR DATE	APPROVED: DIVISION OF COMMUNITY PLANNING & ZONING HOWARD COUNTY MARYLAND DATE 1-12-89

APPROVED
 DIVISION OF COMMUNITY PLANNING & ZONING
 HOWARD COUNTY
 MARYLAND
 DATE 1-12-89

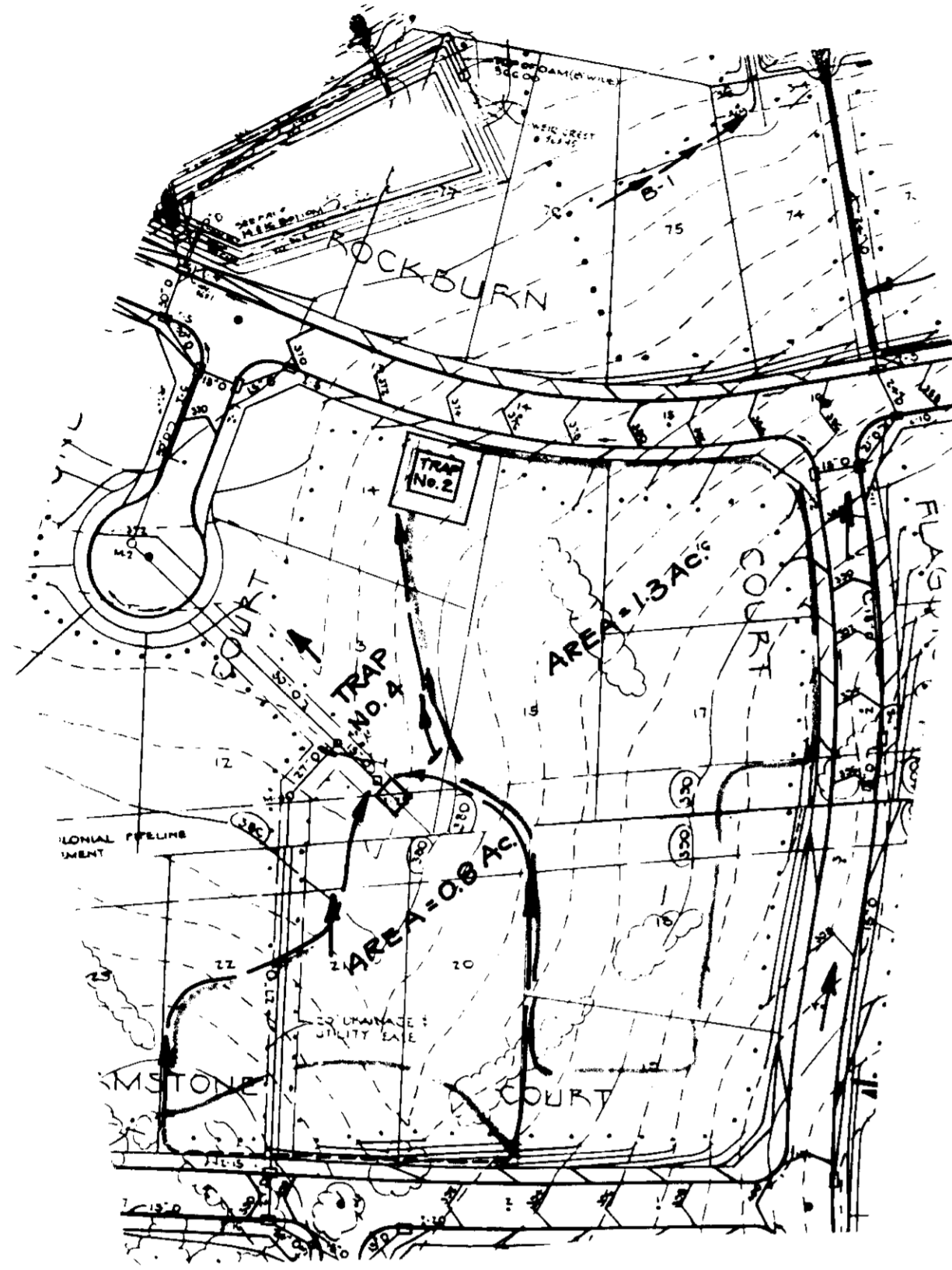
DEVELOPER'S/BUILDER'S CERTIFICATE

"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 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 or their
 authorized agents, as are deemed necessary."

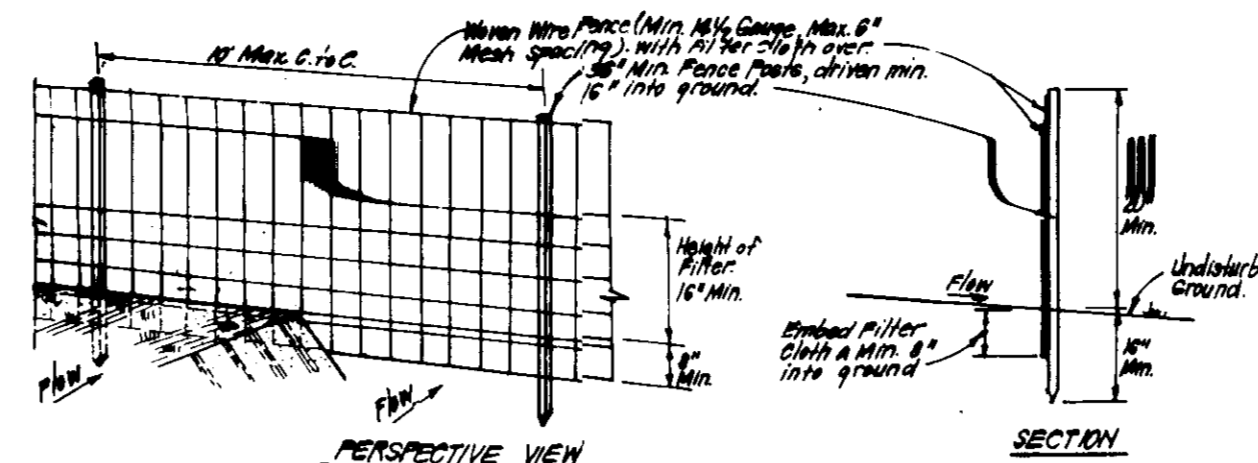
Lawrence M. Smith 12-12-88
 Signature of Developer/Builder Date

Owner/Developer:
 Danville I Associates
 % Lowal Corporation
 7775 New York Lane
 Glen Burnie, Maryland 21061

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS 7135 Minstrel Way Columbia, Md. 21045 • 301 381 7500 Baltimore • 301 621-8100 Wash.		
DESIGNED GLB	SEDIMENT & EROSION CONTROL PLAN LOTS 5-17, 20-22, 32-38, 52 & 53, 74-78 ROCKBURN TOWNSHIP SECTION 1 AREA 1 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1" = 30'
DRAWN BAL		DRAWING 6 OF 7
CHECKED GLB		JOB NO. 88-149
DATE Dec. 1988	FOR THE RYLAND GROUP INC. 7130 Minstrel Way Suite 215 Columbia, Md 21045	FILE NO. 88-149



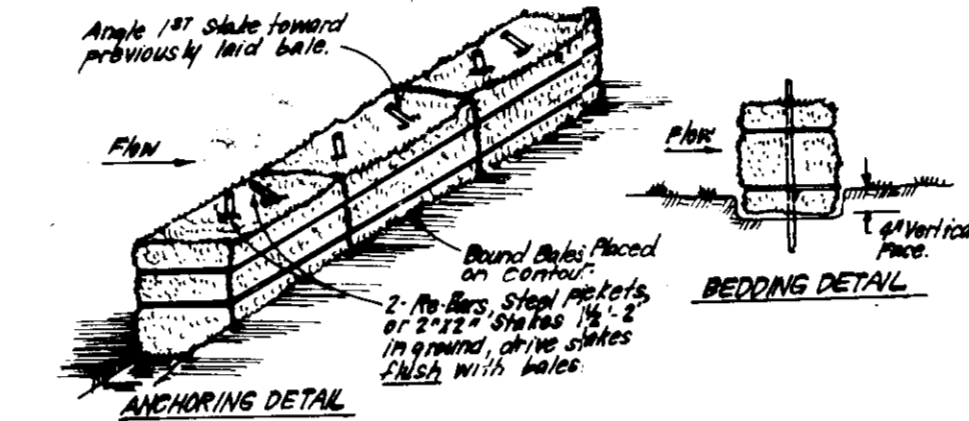
Scale: 1" = 100'
NOTE: Drainage Area to Sediment trap no. 2 is 2.4 Ac.



CONSTRUCTION SPECIFICATIONS:
1. When wire fence is to be fastened securely to fence posts with wire ties or staples.
2. Filter cloth is to be fastened securely to wooden wire fence with ties spaced every 30" up and mid section.
3. When a section of filter cloth section each other they shall be overlapped by 6" and stapled.
4. Maintenance shall be performed as needed and material removed when proper cleanup is in place.

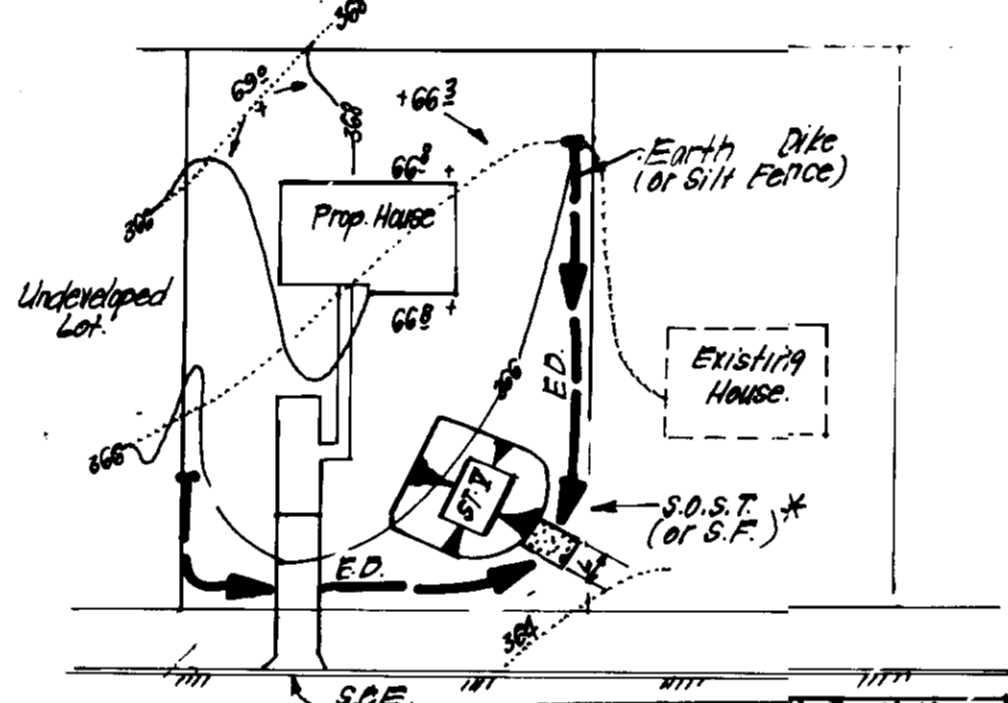
POSTS: Posts either 1" or 4" Type or Hardwood
FENCE: Heavy Wire, 1/4" Gauge
FILTER CLOTH: Filter Cloth, 1/2" Mesh, 100% Polypropylene, 12" x 12" or approved equivalent.

SILT FENCE DETAIL (S) NO SCALE



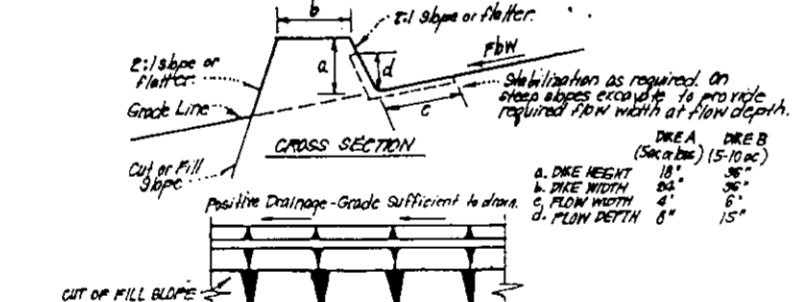
CONSTRUCTION SPECIFICATIONS:
1. Bales shall be placed at the top of a slope or on the contour and in a row with ends tightly abutting the adjacent bales.
2. Each bale shall be embedded in the soil a min. of 6" and placed so the bindings are horizontal.
3. Bales shall be secured in place by either 2" spikes or 1/2" bars driven thru the bales.
4. The 1/2" bars shall be driven thru the bales at an angle to force the bales together. Spikes shall be driven thru the bales.
5. Inspection shall be frequent and repair/replacement shall be made promptly as needed.
6. Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.

STRAW BALE DIKE DETAIL (SBD) NO SCALE



* NOTE: Single lot detail 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



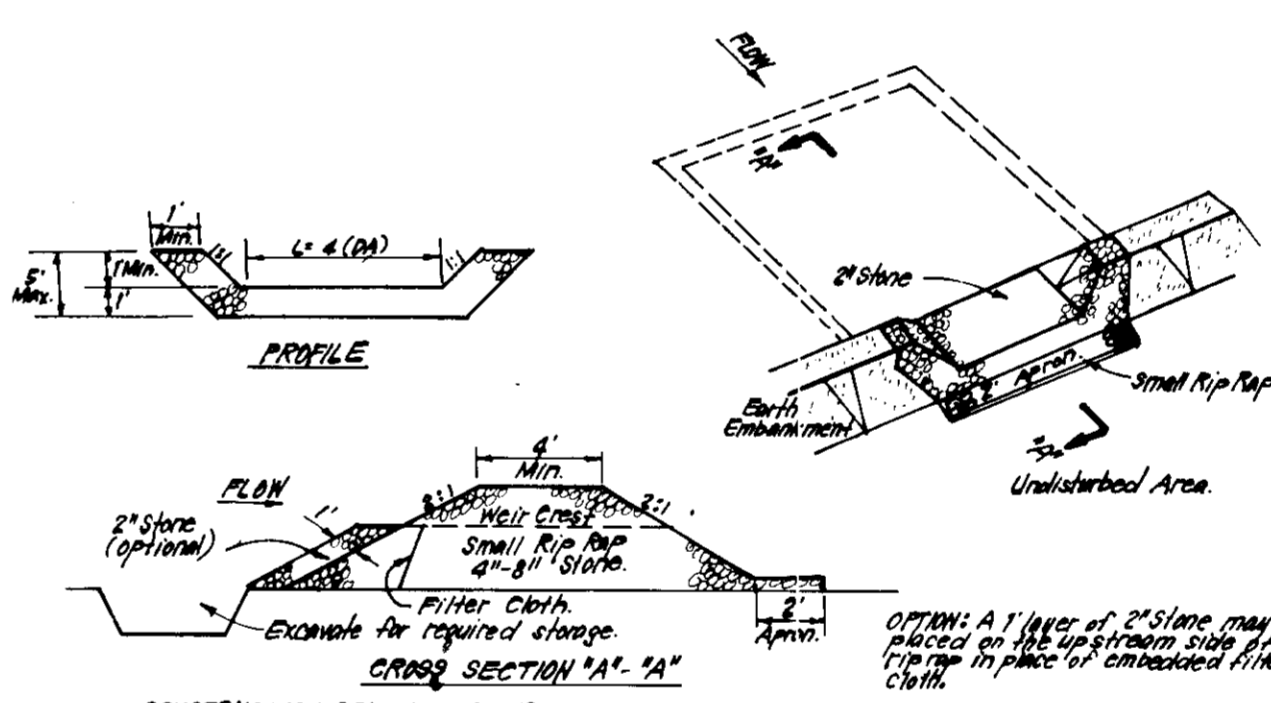
CONSTRUCTION SPECIFICATIONS:
1. All work shall be completed by earth moving equipment.
2. All dikes shall have a minimum height of 18" and a minimum width of 18" at the top.
3. The width may be wider and side slopes may be flatter if desired, to facilitate cleaning by site cleanup contractor.
4. Earth dikes shall be constructed on compacted fill with a minimum of 18" of compacted fill above the dike.
5. Earth dikes shall be constructed on compacted fill with a minimum of 18" of compacted fill above the dike.
6. Sediment traps shall be 18" high and 18" wide at the top. They shall be constructed on compacted fill with a minimum of 18" of compacted fill above the dike.
7. Periodic inspection and required maintenance must be provided after each rain.

EARTH DIKE DETAIL (E.D.) NO SCALE

CONSTRUCTION SEQUENCE:

Activity	No. of Days
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	15
B. Excavate for foundations and Rough Grade & Temporarily Stabilize.	108
C. Construct Foundations, Sidewalks and Driveways.	200
D. Final Grade and stabilize in accordance with Specs. & Specs.	30
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	15

* NOTE: No work may begin on Lots 77 & 78 until existing sediment basin (F-88-186) is removed.



CONSTRUCTION SPECIFICATIONS:
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The root mat shall be disposed.
2. The 1/2" 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. The embankment shall be compacted by tamping with equipment of which it is being constructed.
3. All cut and fill slopes shall be 2:1 or steeper.
4. The stone used in the outlet shall be one 1/2" x 1/2" x 1/2" with a thickness of 2" appropriate placed on the up-slope side on the small rip rap of 4" x 4" x 4" filter cloth in the rip rap.
5. Sediment traps shall be constructed to the original dimensions when the sediment has accumulated to its 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.) STY. NO SCALE

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seeding Preparation: Loosen upper 4" of soil to a depth of 4" 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, and 400 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) 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 (23 lbs/1000 sq ft) before seeding, and 400 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) at time of seeding.

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 (0.05 lbs/1000 sq ft) of creeping lovegrass. During the period of October 16 thru February 28, 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 seed. 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 anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

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.

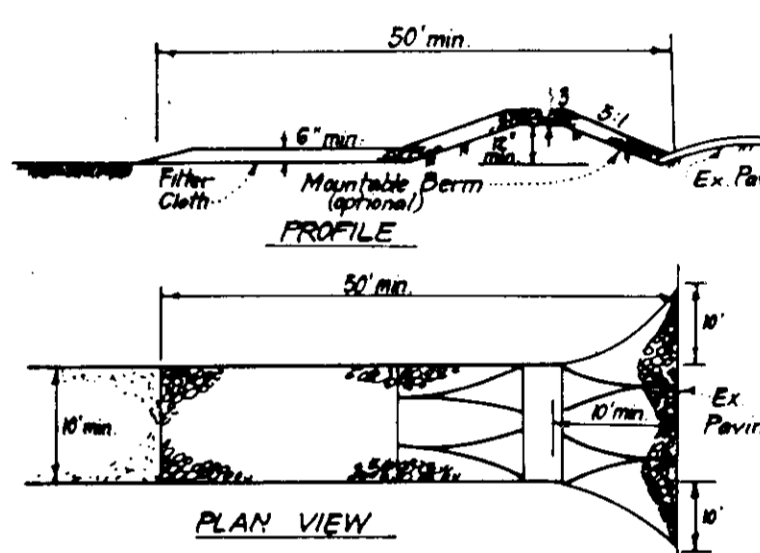
Seeding Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

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

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 14, seed with 3 lbs per acre of creeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use seed.

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 anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat 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 rate and methods not covered.



CONSTRUCTION SPECIFICATIONS:
1. Stone size - Use 2" stone or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a simple residence 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 full width of 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 simple family residence lot.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be ponded across the entrance. If piping is impractical, a mountable berm with 5' slope 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 watering with additional stone be considered cleaned and repaired and/or cleanout of any measure used to trap sediment. All sediment which is 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

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
DATE: 6/12/89
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE: 6/27/89
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 6/28/89

APPROVED DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT
HOWARD COUNTY MARYLAND
DATE: 6-12-89

Approved for... HOWARD COUNTY S.C.D.
Signature: [Signature]
U.S. Soil Conservation Service
FOR DEVELOPMENT PLAN IS APPROVED CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

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 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 or their authorized agents, as are deemed necessary.
Signature: [Signature] Date: 12-12-88

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Erosion and Sediment Control meets all the technical and workable provisions of the site plan and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Signature: [Signature] Date: 12-17-88



CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7115 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 • BALTO • (301) 621-8800 • WASH

DESIGNED	GLB	SEDIMENT & EROSION CONTROL PLAN	SCALE	As shown
DRAWN	BAL	LOTS 5-17, 20-22, 32-38, 52 & 53, 74-78	DRAWING	7 OF 7
CHECKED	GLB	SECTION 1 AREA 1	JOB NO	88-149
DATE	Dec. 1988	1ST ELECTION DISTRICT	FILE NO	88-149
		HOWARD COUNTY, MARYLAND		
		FOR THE RYLAND GROUP, INC.		
		7130 Minstrel Way Suite 215		
		Columbia, Md. 21045		