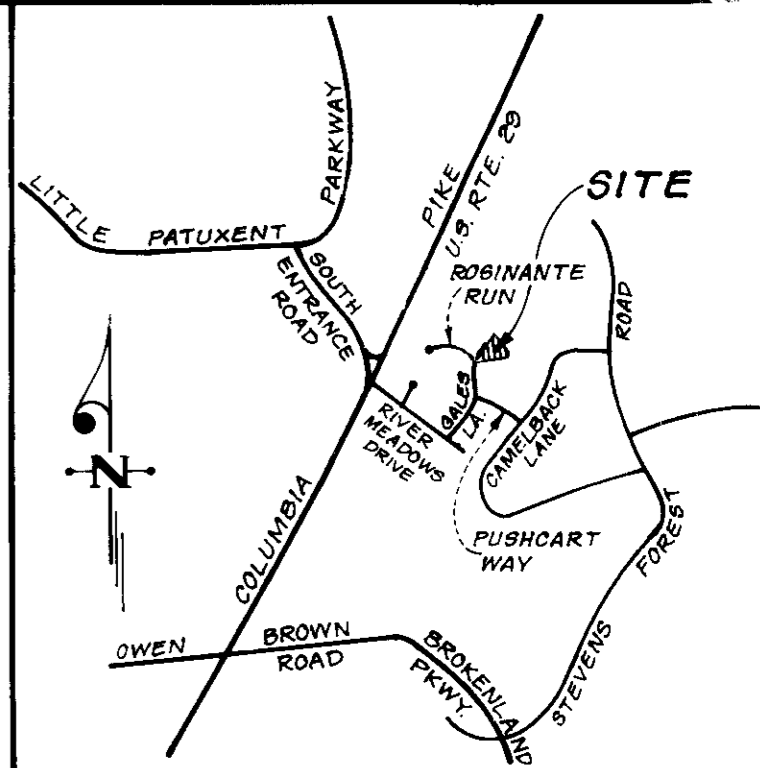


LEGEND

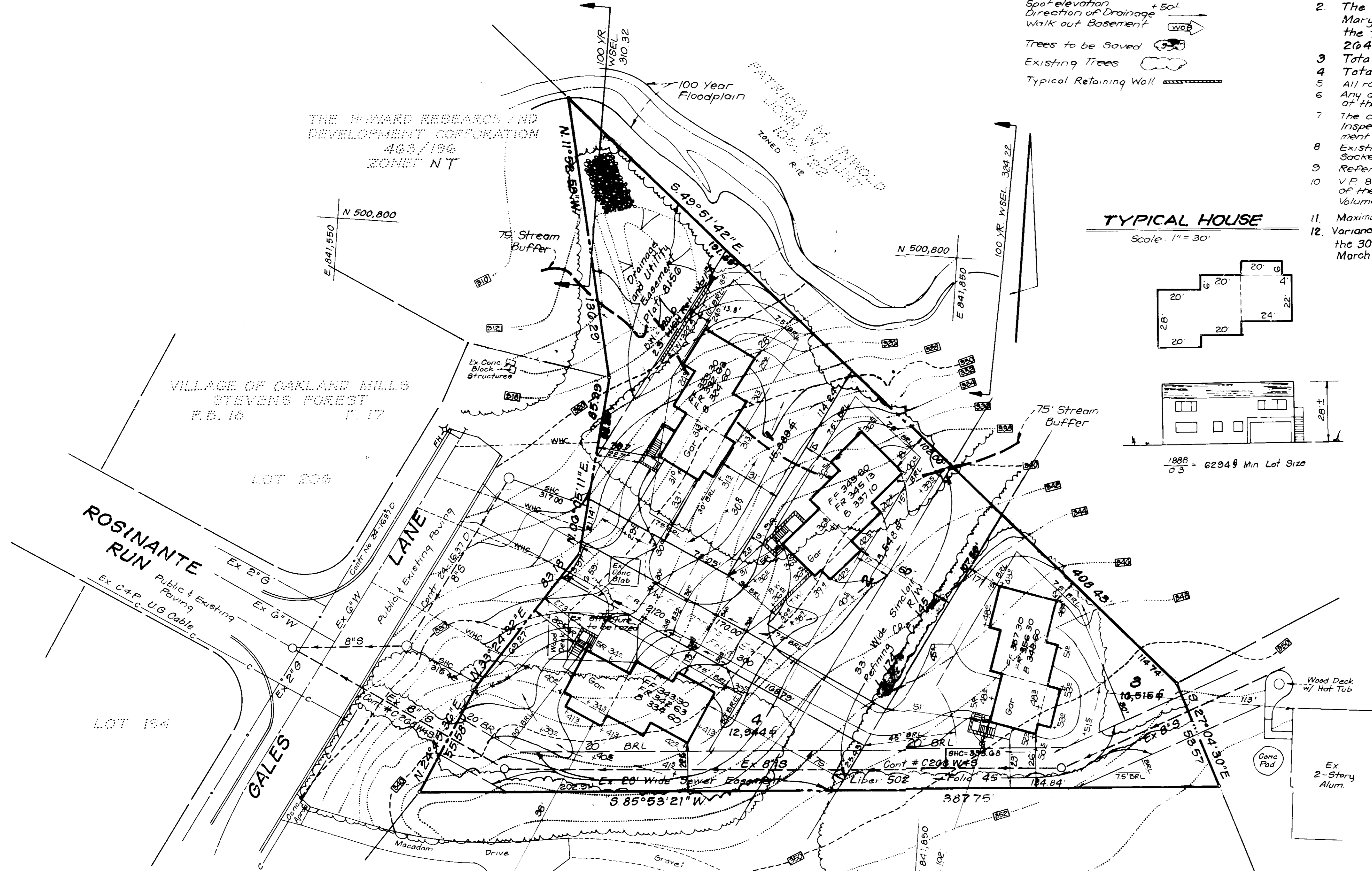
- Contour Interval 2 Ft
- Existing Contour
- Proposed Contour
- Spot Elevation
- Direction of Drainage
- Walk out Basement
- Trees to be Saved
- Existing Trees
- Typical Retaining Wall

GENERAL NOTES

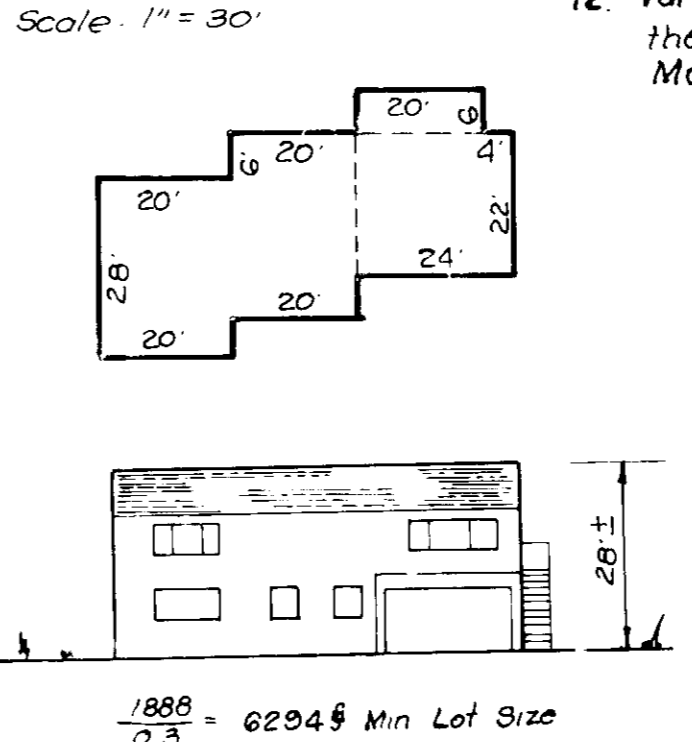
1. Subject property zoned R-12 per Comprehensive Zoning Plan dated 8-2-85.
2. The coordinates shown hereon are based on the Maryland State Grid System and derived from the following Howard County Control Stations: 2041002 and 2041003.
3. Total Area included is 1.35 Acres.
4. Total Number of Lots is 4.
5. All roads are public and existing.
6. Any damage to county owned right-of-ways to be corrected at the developers expense.
7. The contractor or developer shall contact the Construction Inspection/Survey Division, 24 hrs in advance of commencement of work at 796-2630.
8. Existing topography was field run by Clark, Finerock & Sackett, Inc. on 12-21-88.
9. Reference Plat No 8156, F 87-141.
10. V.P. 87-139, Variance of Section 16.115, C.6 To Allow reduction of the required Setback 30' setback from underground High Voltage or High Pressure Transmission Line to 15'.
11. Maximum Lot coverage - 30%.
12. Variance Petition V.P. 87-139 of Sect 16.115, C.6 to allow reduction of the 30' setback to 15' for Lot 2. The variance was amended to include Lot 3 March 14, 1989.



THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
483/196
ZONING NT



TYPICAL HOUSE



SPECIAL NOTES

1. Approved Road Construction plans shall be used for all public utilities.
2. Public water and sewer shown for reference only for more detailed information see approved plans.
3. The water and sewer house connections not included in a Developer's Agreement shall conform to Howard County Plumbing Code. The on-site work shall be 1" copper and the SMC shall be 4" iron.
4. The porch/stairway structures on lots 1, 2 and 4 shall be in accordance with section 128 of the Howard County Zoning Regulations.
5. The 75' wide stream buffer indicated on this plan does not affect the initial construction of a residential unit on any lot. It does prohibit subsequent clearing, grading or construction in the buffer area. Maintenance of residences, landscaping and utilities is permitted.

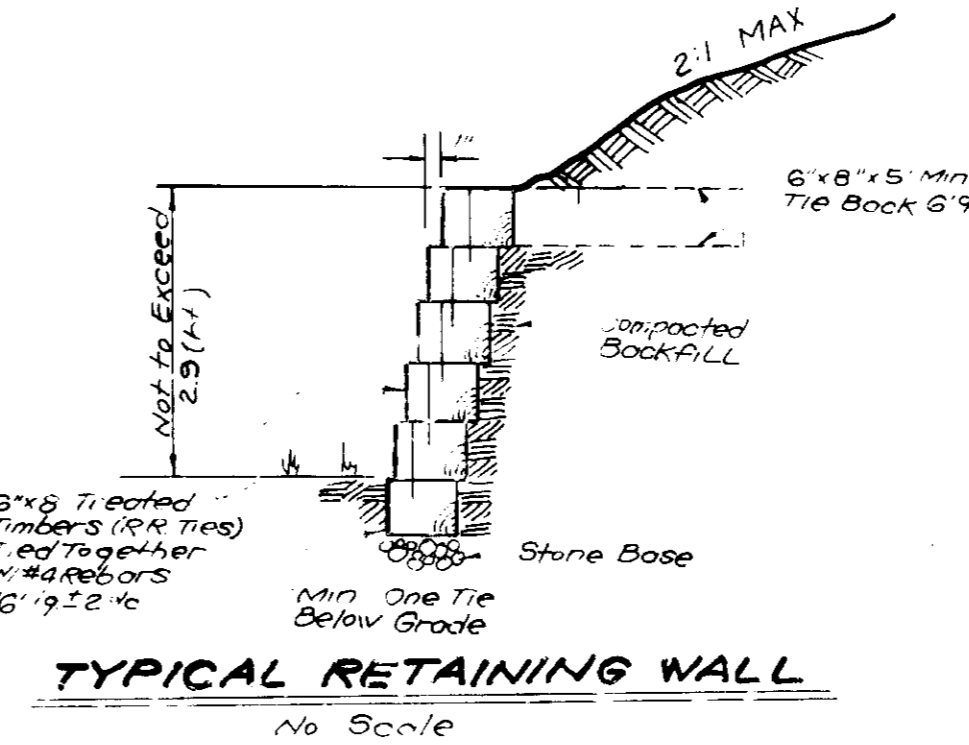
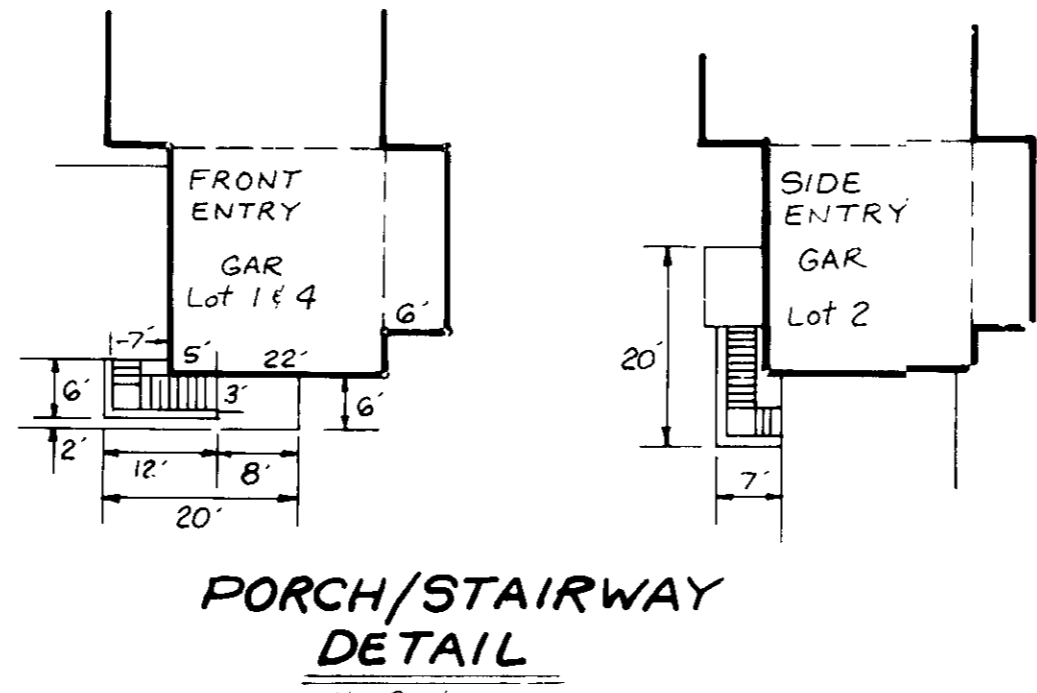
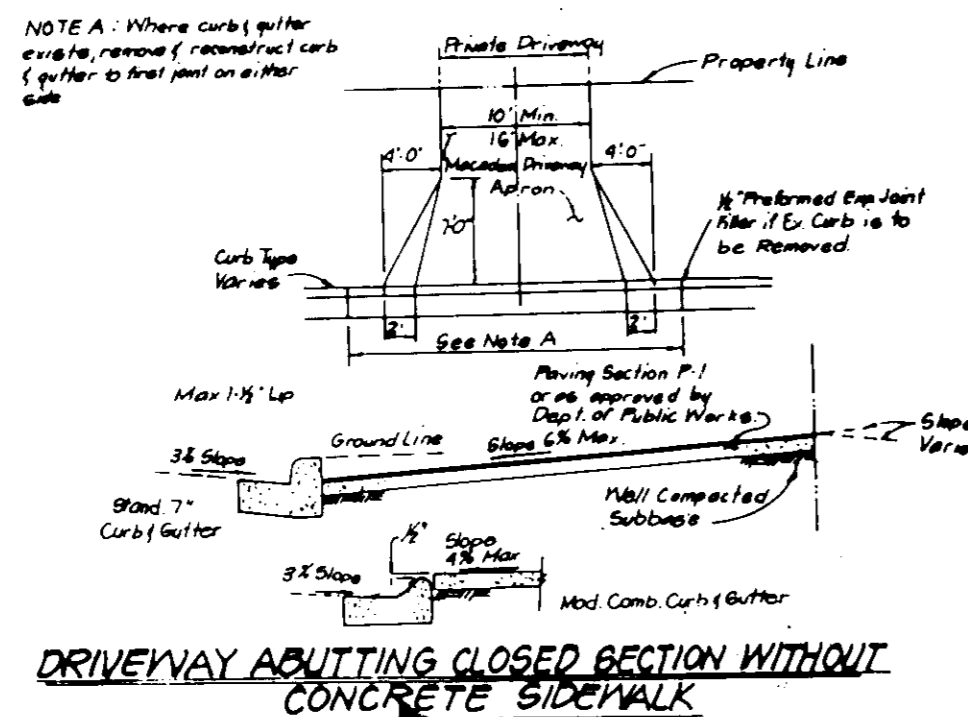
ADDRESS CHART

LOT No.	STREET ADDRESS
1	5923 Gales Lane
2	5925 " "
3	5927 " "
4	5929 " "

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: *[Signature]* DATE: 2/27/90

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
DIRECTOR: *[Signature]* DATE: 3/1/90

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *[Signature]* DATE: 3-8-90



SUBDIVISION NAME GALES SEARCH		SECT./AREA 36	LOTS 1 THRU 4
PLAT No. 8156	BLOCK # 8	ZONE R-12	TAX MAP No. 6th
WATER CODE E 03		SEWER CODE 553120	

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

SITE DEVELOPMENT PLAN
LOTS 1 THRU 4
GALES SEARCH

6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: ARTECH INC. 96 NICHOLAS KLOPP
9745 EARLY SPRING WAY
COLUMBIA, MD 21046

DESIGNED: JME
DRAWN: LAI, BAK
CHECKED: JME
DATE: JULY 1989

SCALE: 1" = 90'
DRAWING: 1 of 2
JOB NO.: 89-033
FILE NO.: 89-033-X

Apply to cleared or cleared areas not subject to immediate further disturbance where a permanent landscaped vegetative cover is needed.

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. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 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 (.05 lbs/1000 sq ft) of weeping 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 to the spring. Option (2) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft 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:

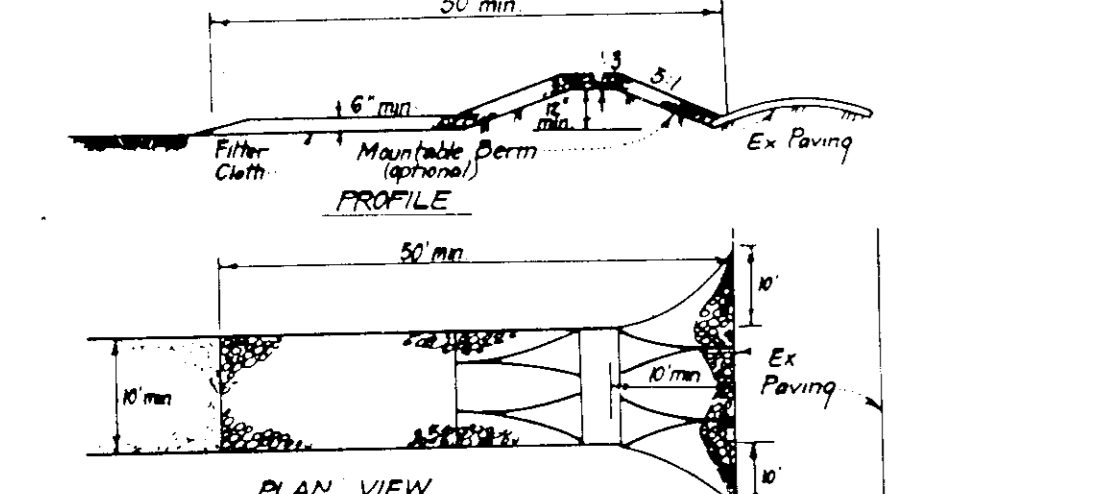
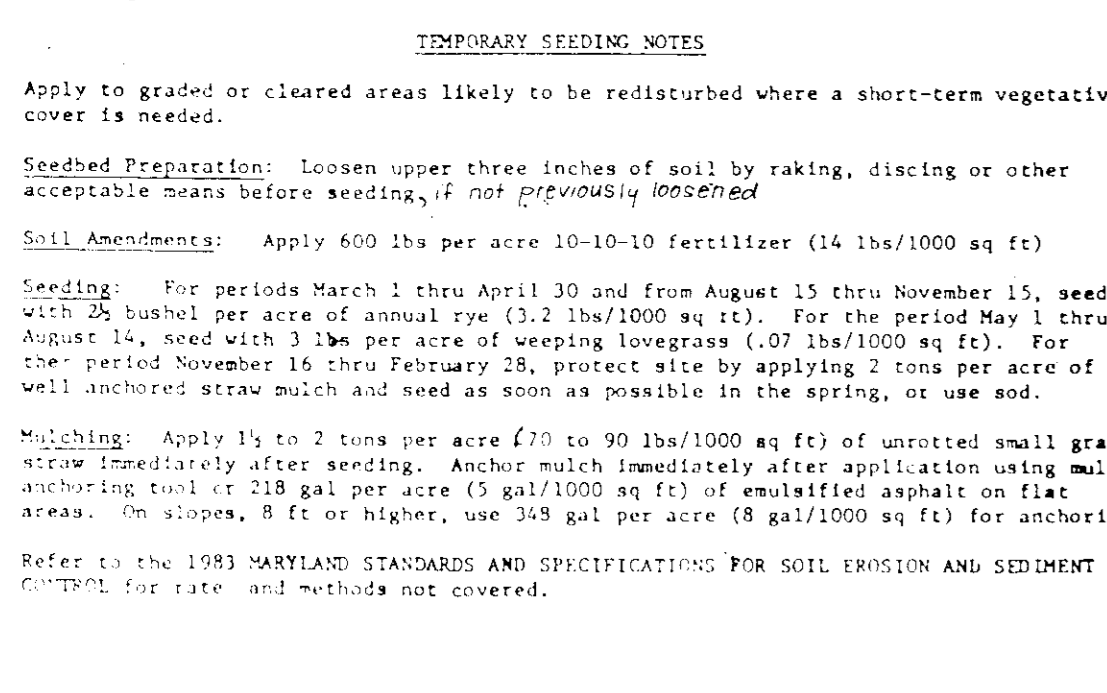
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.

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

Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 28 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 weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or seed and mulch.

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 on flat areas. On slopes, 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

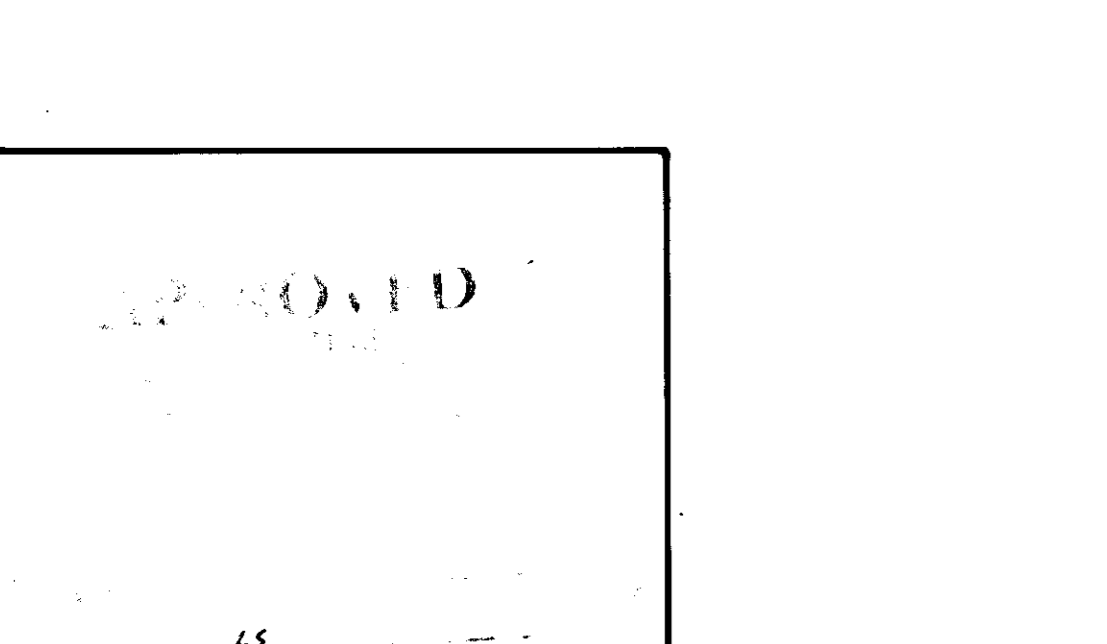
Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



CONSTRUCTION SPECIFICATIONS:

1. Stone size - Use 2" stone or recycled concrete or equivalent.
2. Length - As required, but not less than 50 feet (except on a simple residence lot where a 10 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 at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone.
6. Surface Water - All surface water flowing or diverted toward construction entrance shall be passed across the entrance. If passing is impractical, amount of berm with 5-1 steps will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any required used to trap sediment. All sediment applied, dragged, washed or tracked onto public right-of-way must be removed immediately.
8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with a type 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: 2/27/90

APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
DATE: 3/20/90

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 3/8/90

Reviewed for: S.C.D.
Name: *John K. Klobb*
Signature: *John K. Klobb*
Date: 2/1/90

U.S. Soil Conservation Service

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

John K. Klobb
Approved Date: 2/1/90

LEGEND

Contour Interval 2 Ft
Existing Contour - - - - -
Proposed Contour - - - - -
Spot Elevation - - - - -
Direction of Drainage - - - - -
Walk out Basement - - - - -

Trees to be Saved
Existing Trees - - - - -
Silt Fence - - - - -
Earth Dike - - - - -

Stabilized Construction Entrance (SCE)
Typical Retaining Wall - - - - -

TRAP NO 1 SOST (ST-V)

Drainage Area 1.2 Acres
Storage Required 2160 of
Storage Provided 2160 of
Depth 3 ft
Top of Stone 318.0
Bottom Elev. 315.5
Bottom Dimension 17' x 35'
1:1 Side Slopes in cut
L=6'

*** 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.

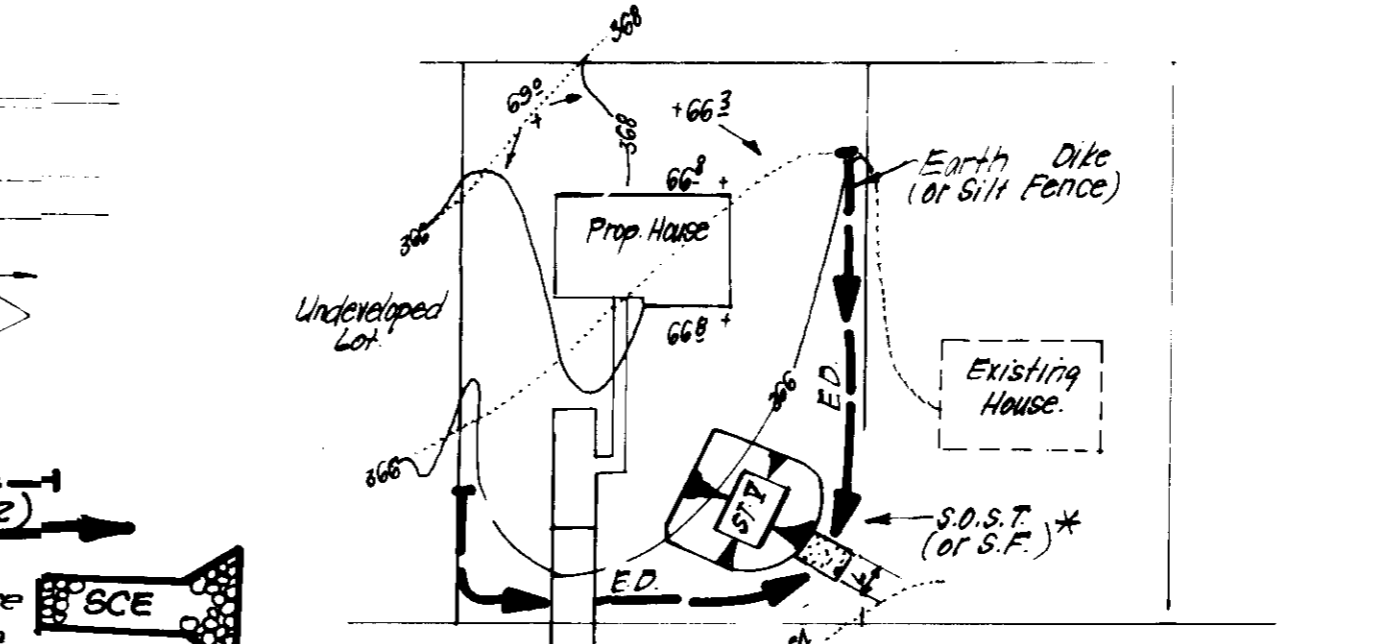


SEDIMENT CONTROL NOTES:

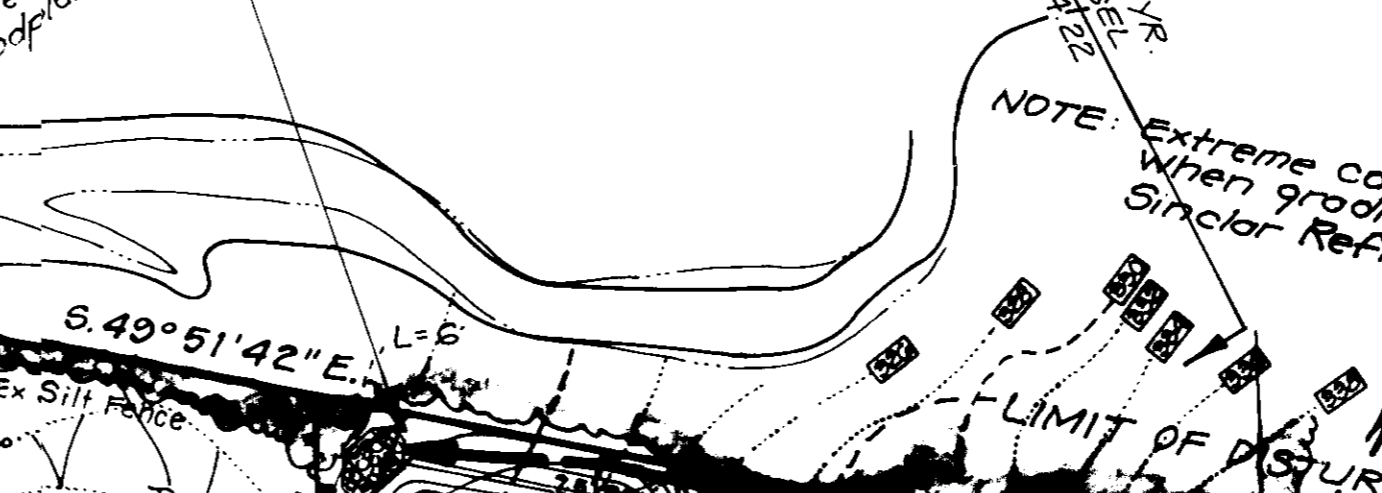
- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (1992-2007).
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 30 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1. 14 days at 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. 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 operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7) Site Analysis:
Total Area of Site 1.35 Acres
Area Disturbed 1.2 Acres
Area to be reseeded or mulched 0.90 Acres
Area to be vegetatively stabilized 0.90 Acres
Total Cut 27 Cu. yds
Total Fill 138 Cu. yds
Offsite water/borrow area location N/A
- 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment control must be provided, if deemed necessary by the Howard County DNR sediment control inspector.
- 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be required upon completion of installation of perimeter erosion and sediment control, but before proceeding with any other earth disturbance or activity. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- 11) If basins are to be constructed on an "AS BUILT" basis, an "AS BUILT" Sediment Control plan shall be submitted to the District at the time of submittal, see below.
- 12) All items to be checked at the time of submittal, see below.
- 13) All items to be checked at the time of submittal, see below.

CONSTRUCTION SEQUENCE

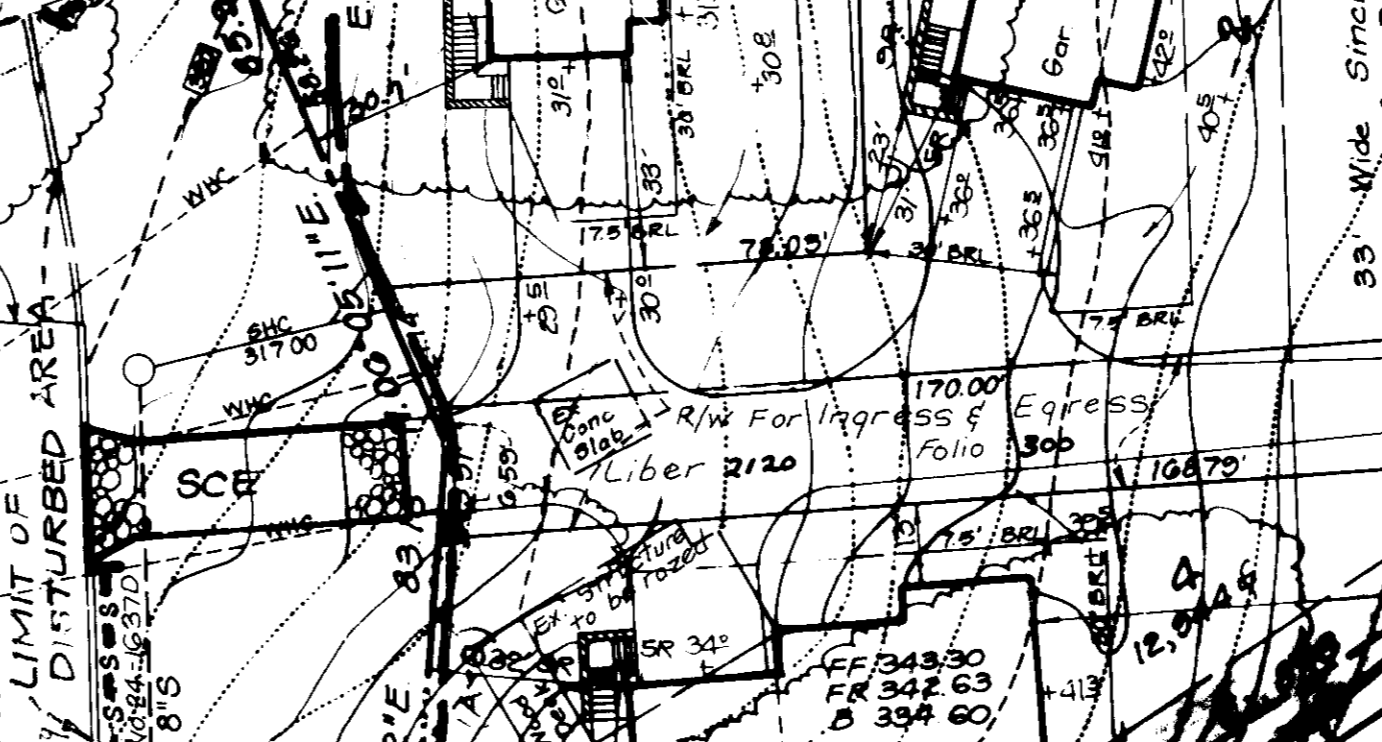
No. of Days	Description
7	1. Obtain grading permit and install sediment erosion control devices and stabilize.
30	2. Excavate for foundations, rough grade and temporarily stabilize.
250	3. Construct structures and all viewways. Delay construction on lot 44. Construct house utilizing single lot sediment control upon removal of trap no 1.
30	4. Final grade and stabilize in accordance with standards and specifications.
7	5. Upon approval of sediment control inspector, remove sediment and erosion controls and stabilize.



*** 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.



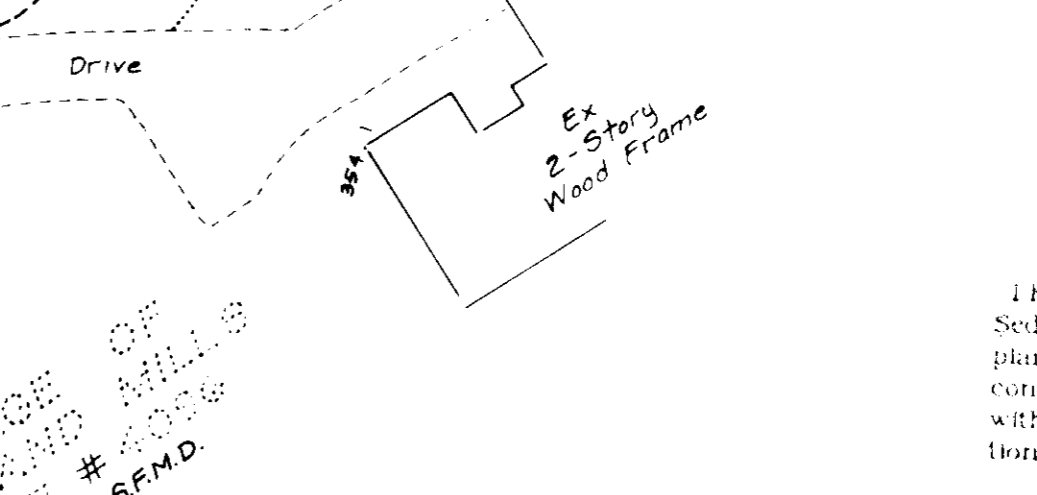
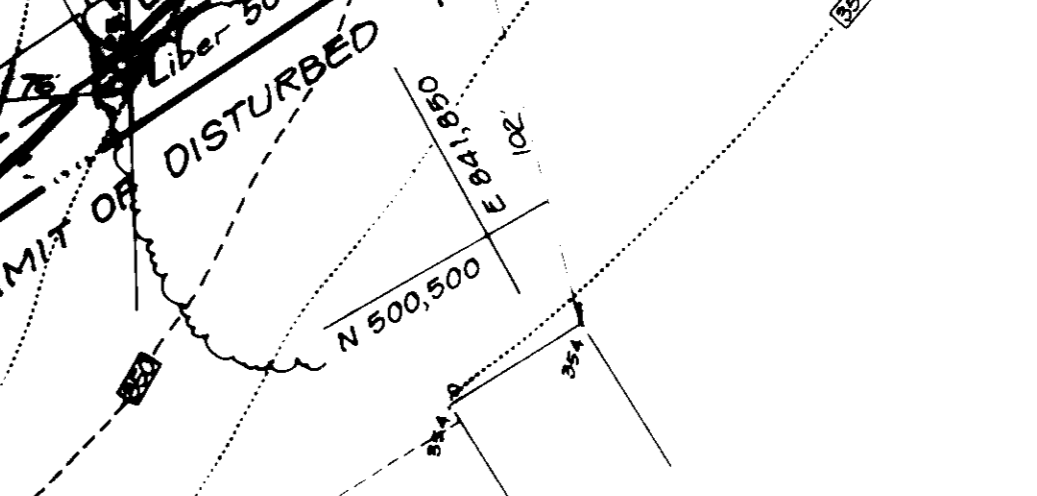
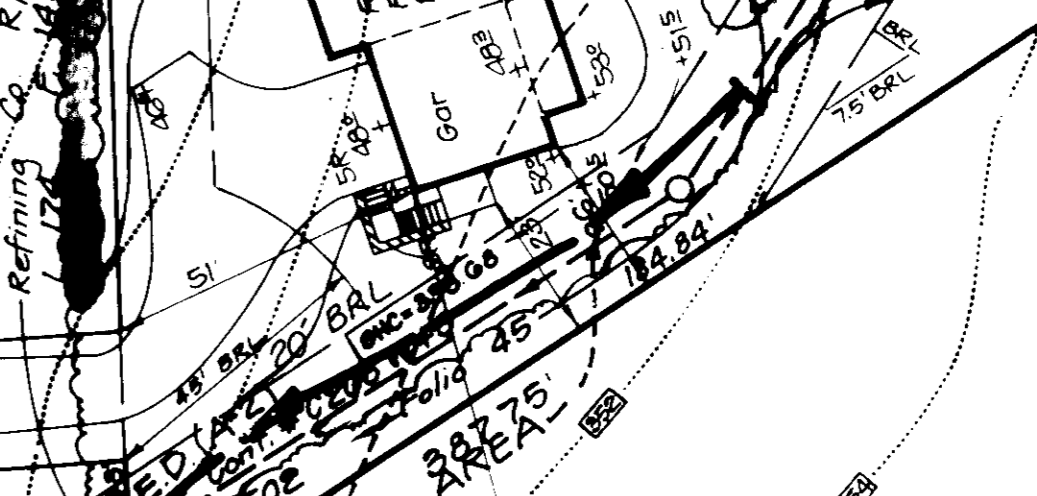
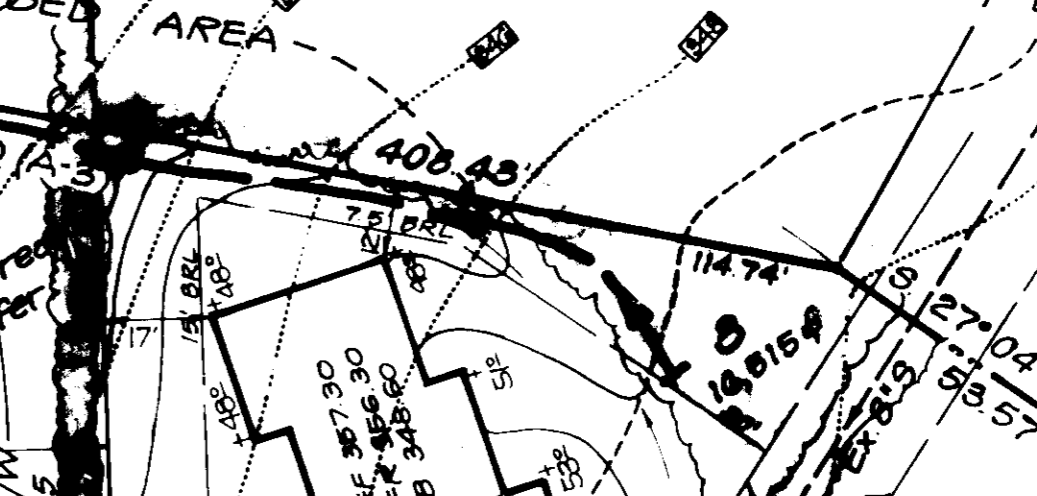
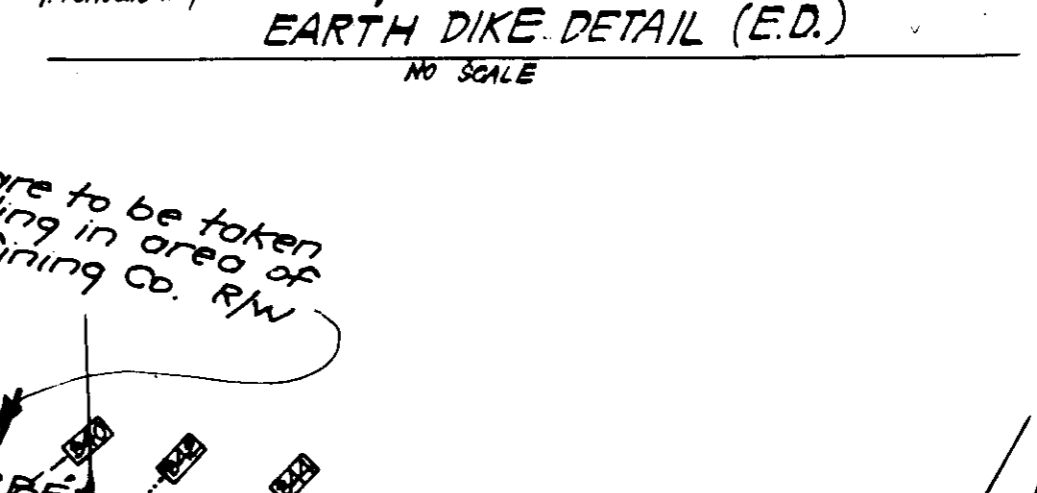
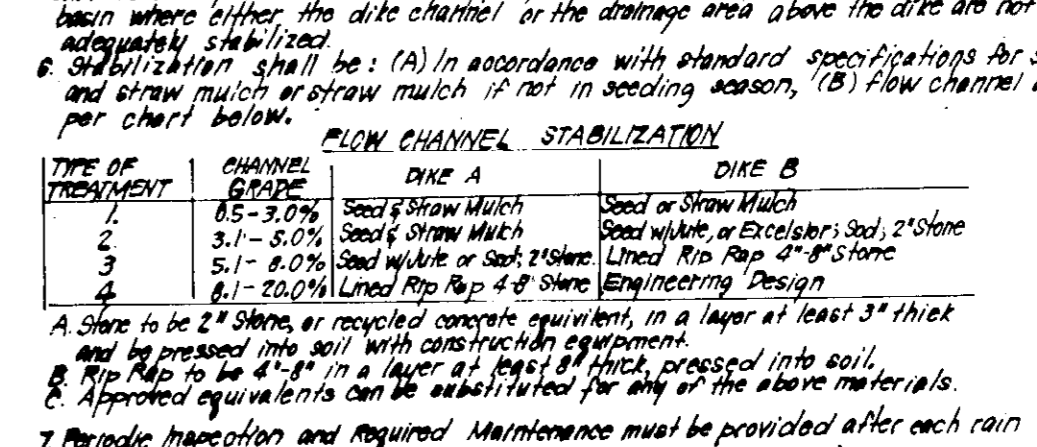
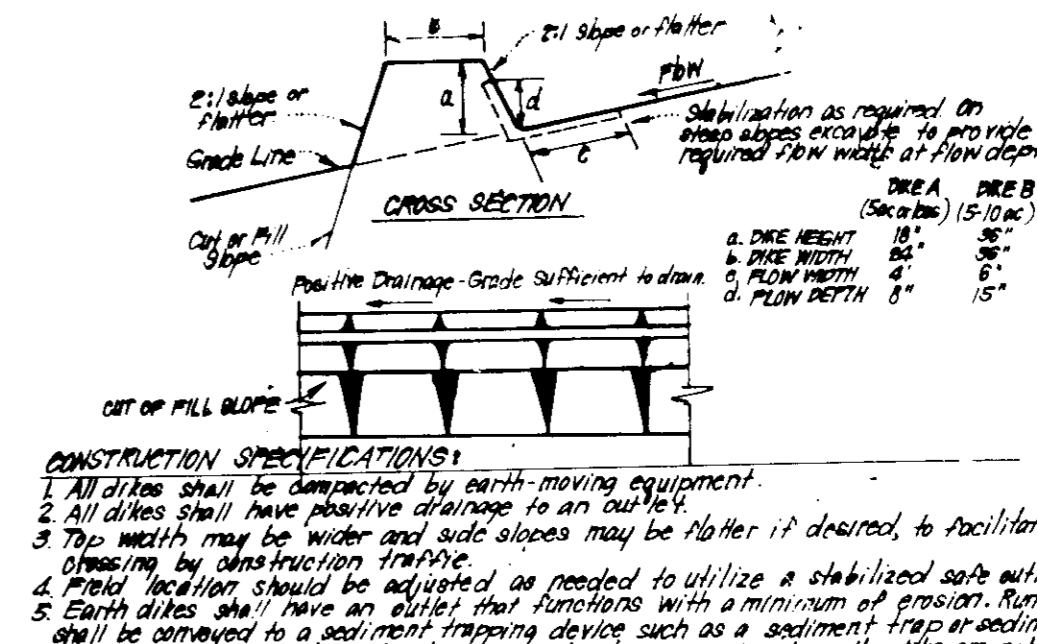
NOTE: Extreme care to be taken when grading in area of Sinclair Refining Co. RW



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, if a District is necessary.

Nicholas E. Klobb
Signature of Developer/Builder
Date: 7/17/89



ENGINEER'S CERTIFICATE

I, the undersigned, being a duly Licensed Professional Engineer and Sediment Control Representative, certify that this plan and specifications were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer and Sediment Control Representative in the State of Maryland.

G. Nelson Clark
Signature
Date

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7800 • BALTO. • (301) 621-8300 • WASH.

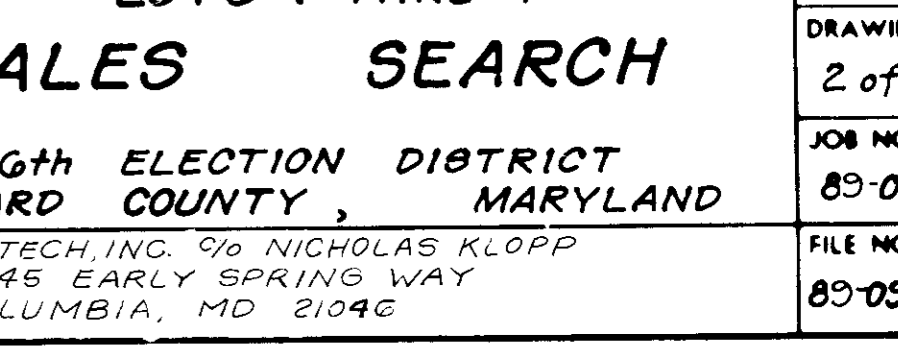
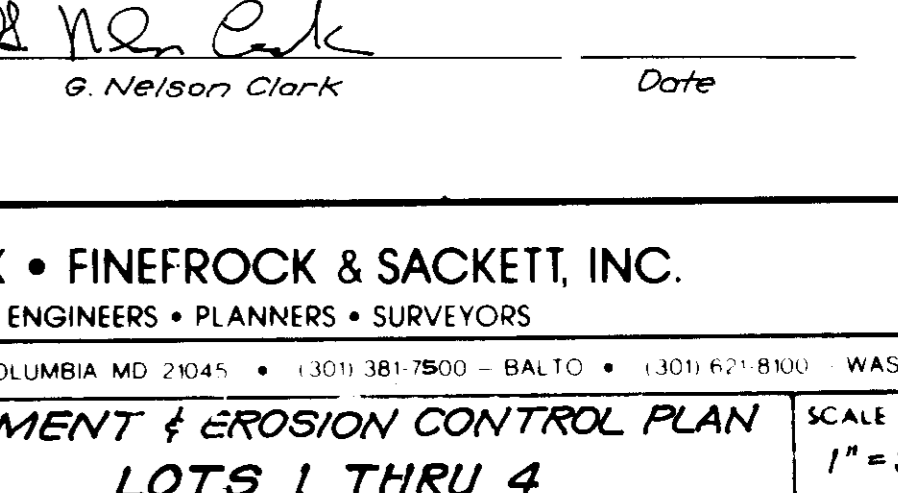
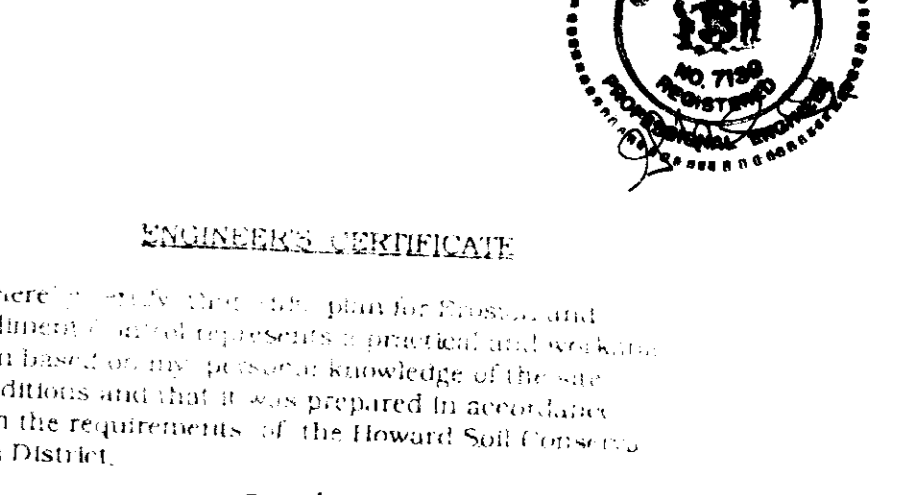
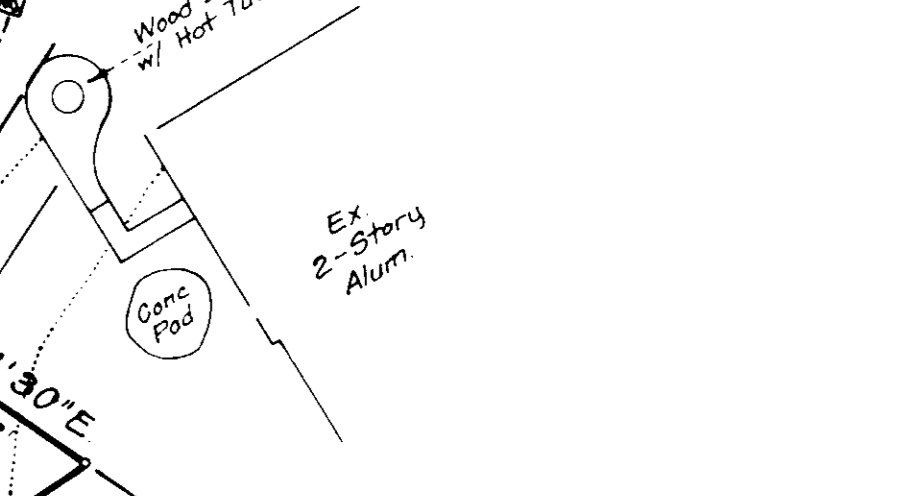
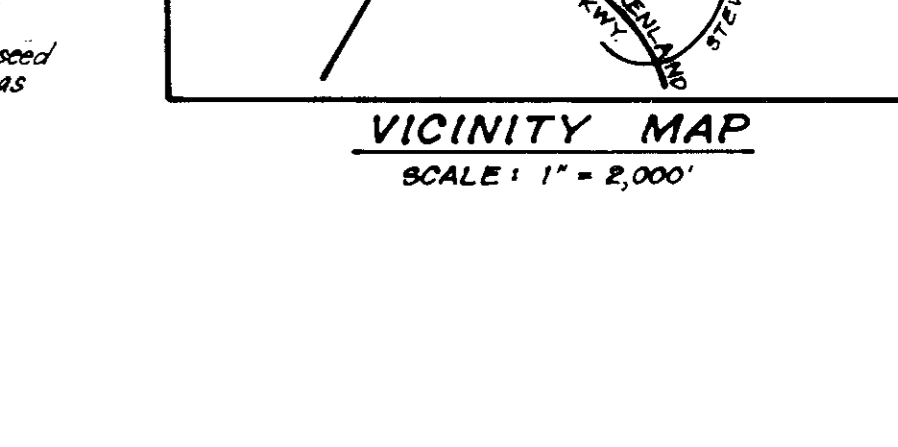
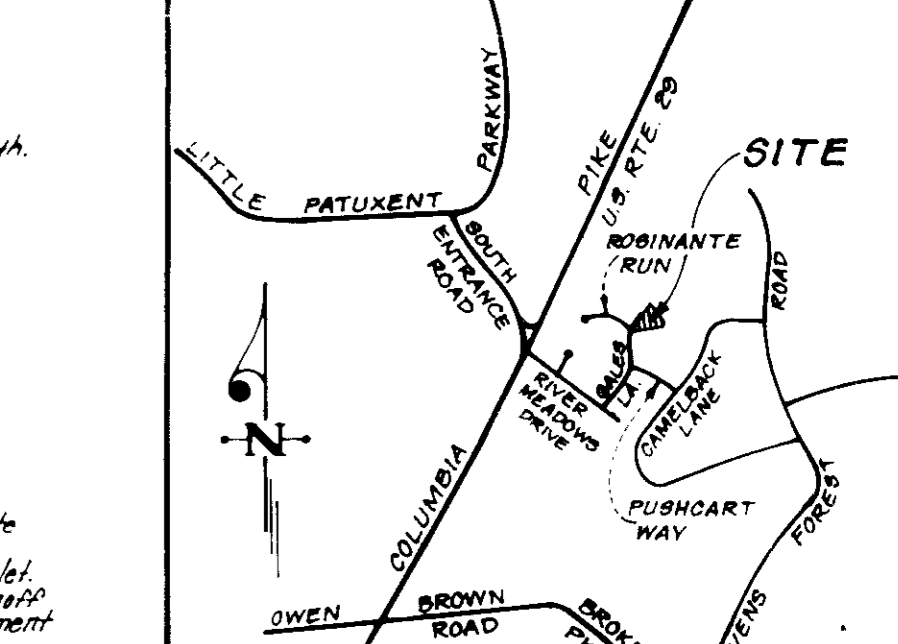
DESIGNED BY: K.I.W.M.
DRAWN BY: B.A.K.
CHECKED BY: K.I.W.M.
DATE: July 1989

SEDIMENT & EROSION CONTROL PLAN
LOTS 1 THRU 4
GALES SEARCH

6th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: ARTECH, INC. c/o NICHOLAS KLOPP
3745 EARLY SPRING WAY
COLUMBIA, MD 21046

SCALE: 1" = 50'
DRAWING: 2 of 2
JOB NO: 89-093
FILE NO: 89-093 SE



S.D.P. 89-145