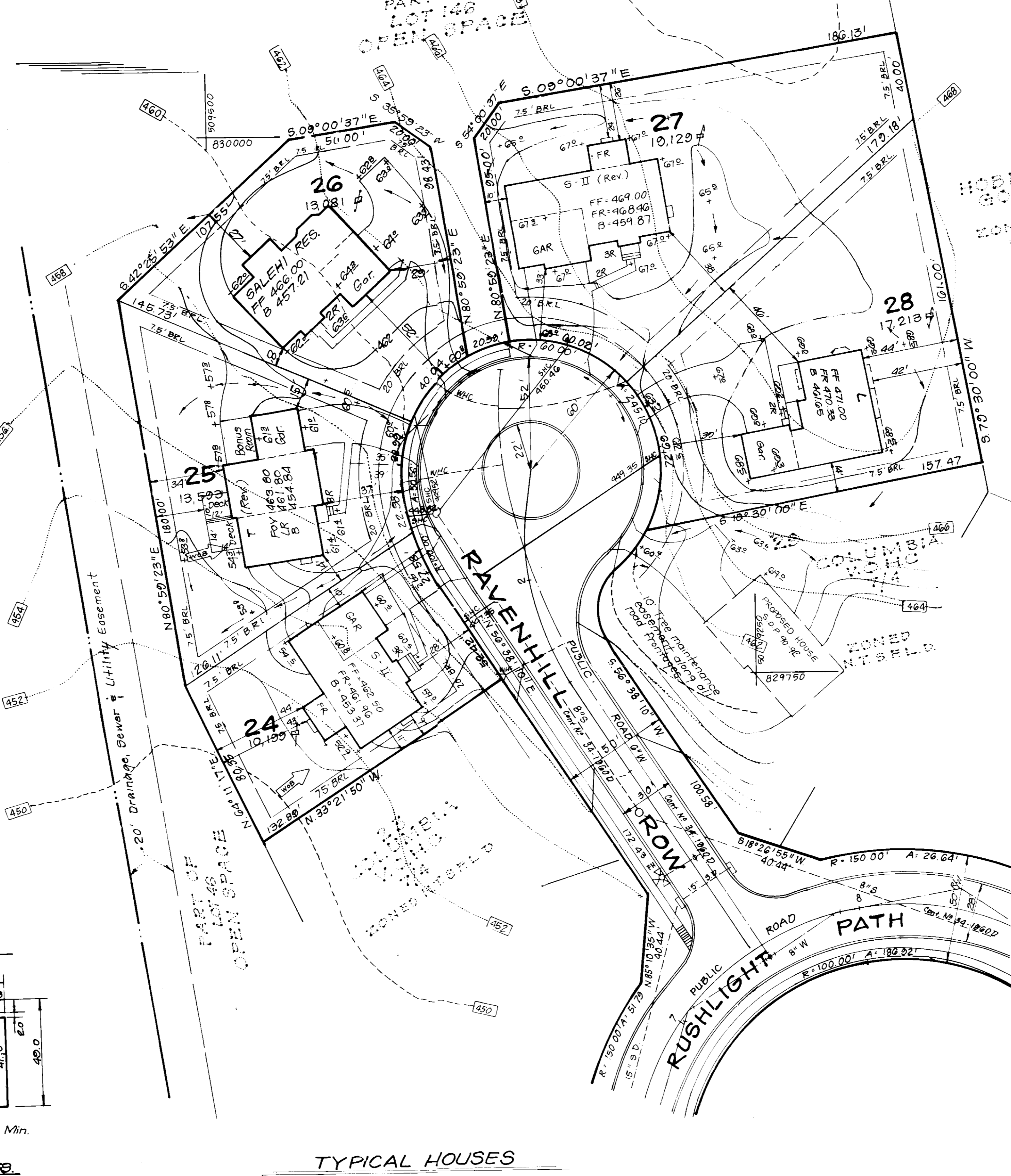
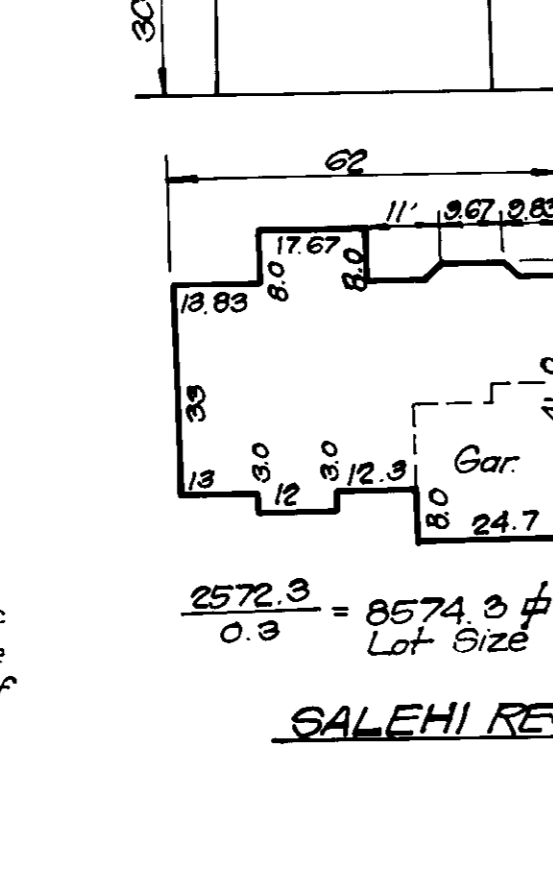
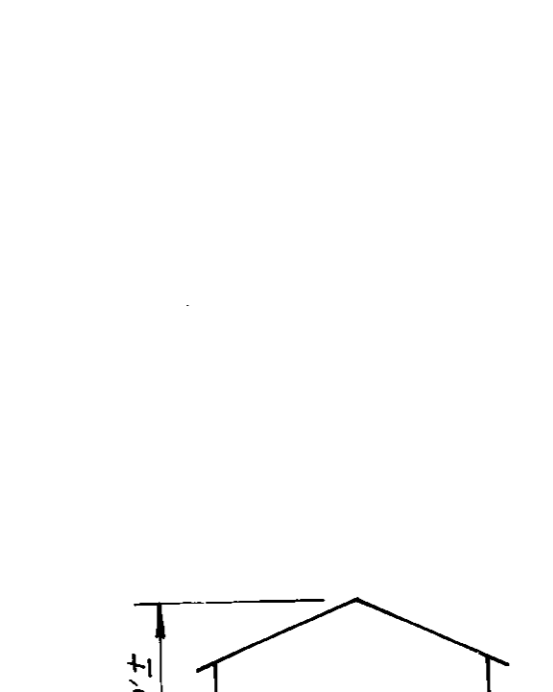
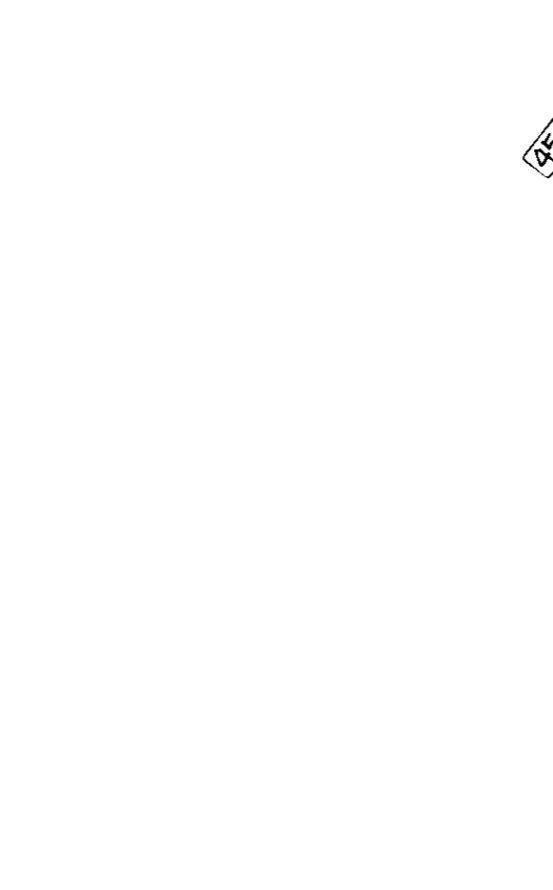
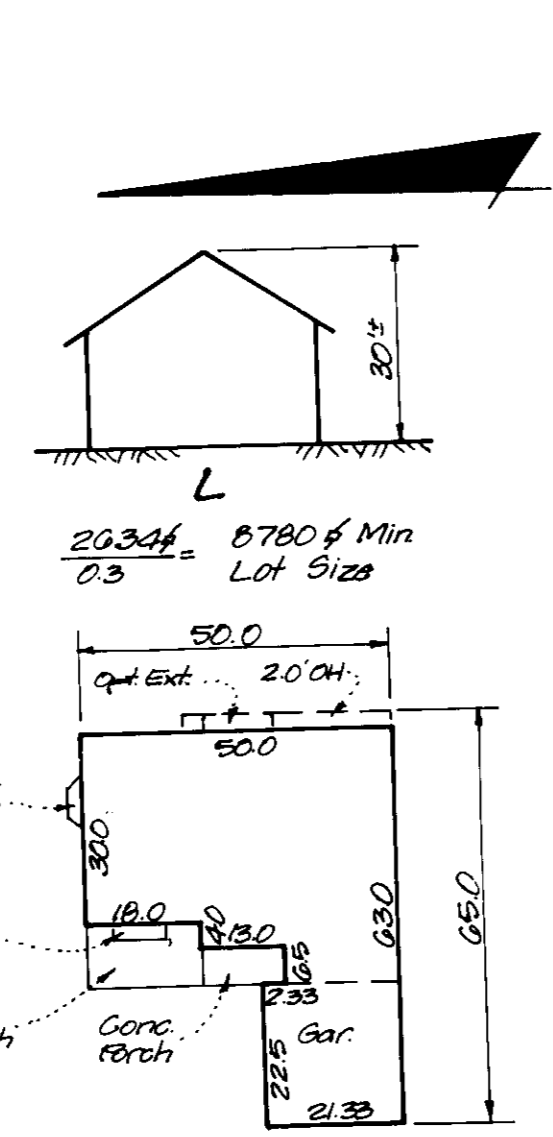
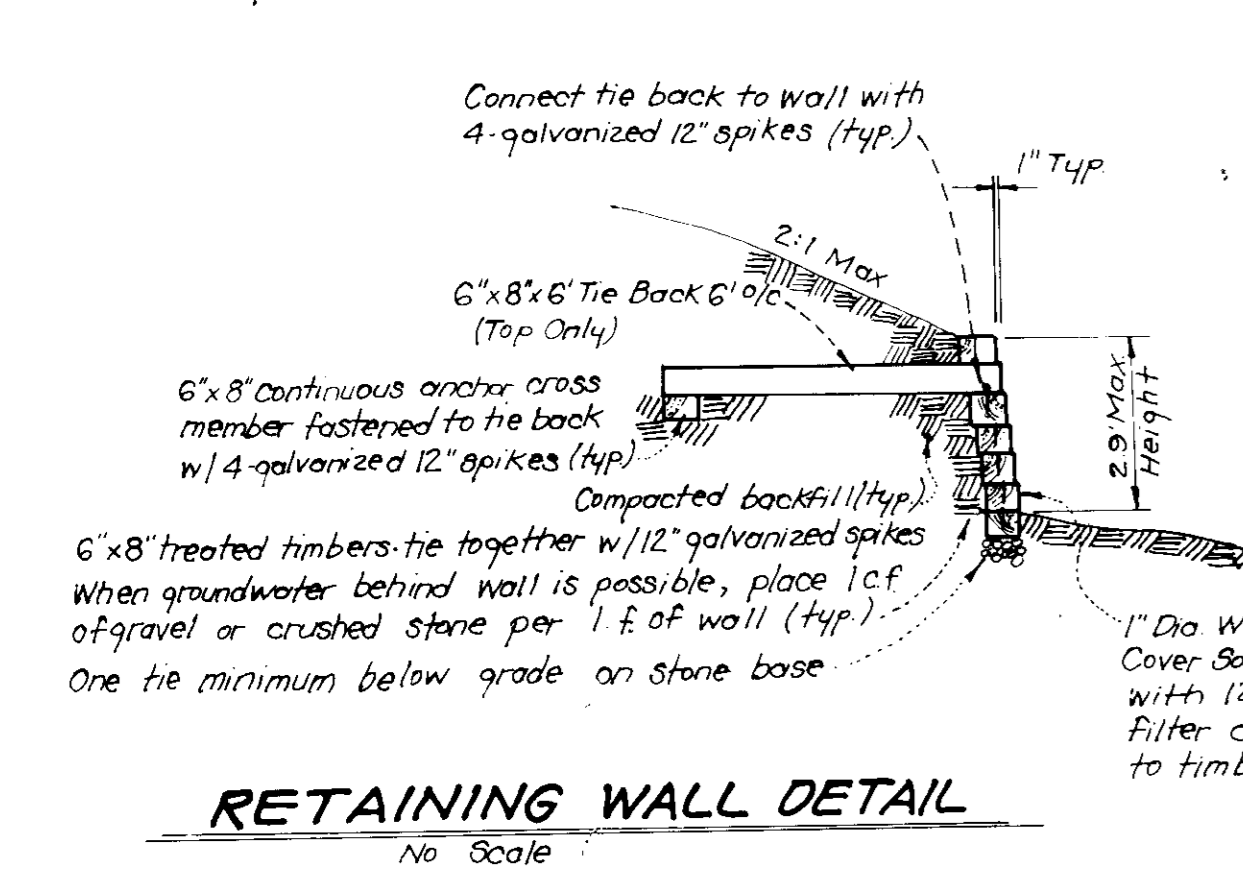


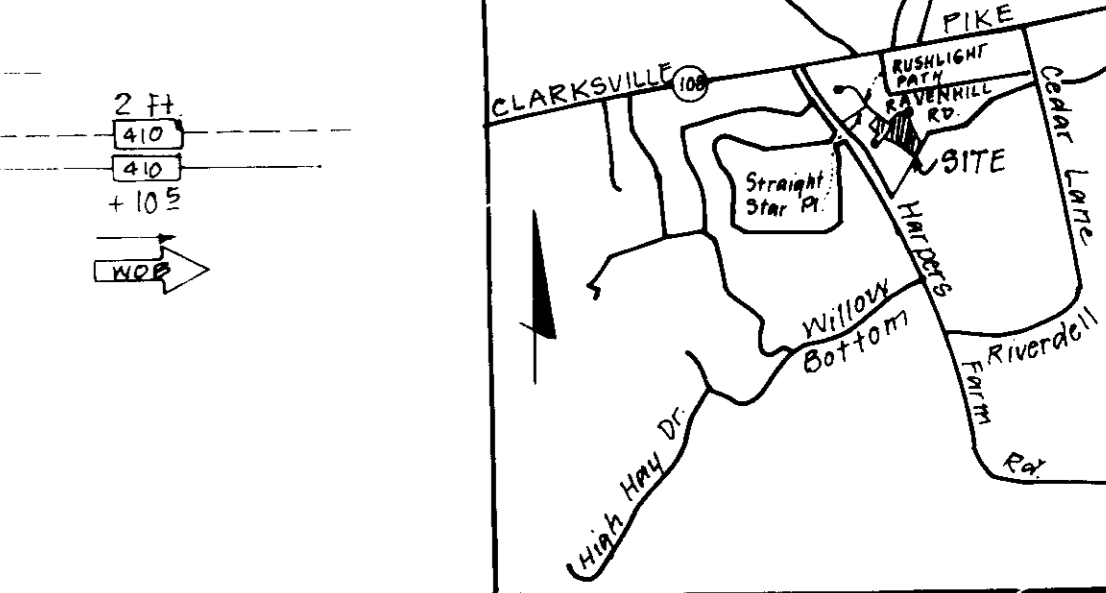
NOTE:

- Timber shall be either:
 - Cresote treated railroad ties
 - CCA treated landscape timbers (40 lb./of retention)
- Hardware shall be hot dipped galvanized.
- Weepholes with or without gravel drain are minimum measures for groundwater. For any substantial amount of groundwater, a drain system should be observed and utilized.
- Design shall be verified for site specific soil condition by a professional Geotechnical Engineer.



LEGEND

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



GENERAL NOTES

- Subject property zoned NTSFLD per 8-2-85 comprehensive zoning plan & F.D.P. 204
- The coordinates shown hereon are based on The Maryland State Grid System & Howard County Geodetic Control Stations 2739002 & 2739003
- All roadways are public.
- Total area included in this submission: 1.681 Ac
- Total number of lots: 5
- Any damage to county owned right-of-ways shall be contracted at the Developer's expense.
- This subdivision is subject to Sect. 18.122B of the Howard County Code.
- Reference plans: S-38-101, P80-45, W.P. 89-14 F-89-201
- The Contractor or developer shall contact the Construction/Inspection Division, 24 hours in advance of commencement of work at 792-2630.
- The existing topography shown was taken from road construction plans prepared by F 89-201
- Stormwater Management requirements have been waived as per D.P.W. action dated Sept 6, 1988

SPECIAL NOTES

- All road construction, storm drainage facilities and public water and sewer are shown for reference only. Use approved Howard County plans for all phases of construction.

ADDRESS CHART

LOT	STREET	ADDRESS
24	5009 Ravenhill Row	
25	5013	
26	5017	
27	5008	
28	5004 Ravenhill Row	

REVISIONS

No.	REVISIONS	Date
3	Rev. hse & grad. lot 26	7-8-97
2	Rev. hse & grad. lot 28; Add hse. typ.	12-12-95
1	Rev. hse & grad. lot 25	7-3-91

OWNER / DEVELOPER

HOWARD RESEARCH AND DEVELOPMENT LAND CO.	Subdivision Name: COLUMBIA Village of Hickory Ridge	Sect./Area: 7/4	Lots: 24-28
10275 LITTLE PATRICK PARKWAY COLUMBIA, MARYLAND 21044	Plat No: 9139	Block No: 16	Zone: BR L.P.
	Tax Map No: 23	Elec. Dist: 5	Consue: 6053.01
	Water Code: 21044	Sewer Code: 6740000	

CLARK • FINEROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

1185 MINISTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 • FAX: (301) 381-1840

SITE DEVELOPMENT PLAN
LOTS 24-28
COLUMBIA
VILLAGE OF HARPERS CHOICE
SECTION 7 AREA 4

5th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

For: Columbia Builders
3 Lakefront North Suite 200
Columbia, Md 21044

DESIGNED: J.M.E.
DRAWN: GES, BAK
CHECKED: J.M.E.
DATE: Feb. 1990

SCALE: 1" = 30'
DRAWING: 1 of 2
JOB NO: 89-144
FILE NO: 89-144X

SDP 90-171

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

[Signature] COUNTY HEALTH OFFICER
DATE: 4-19-90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

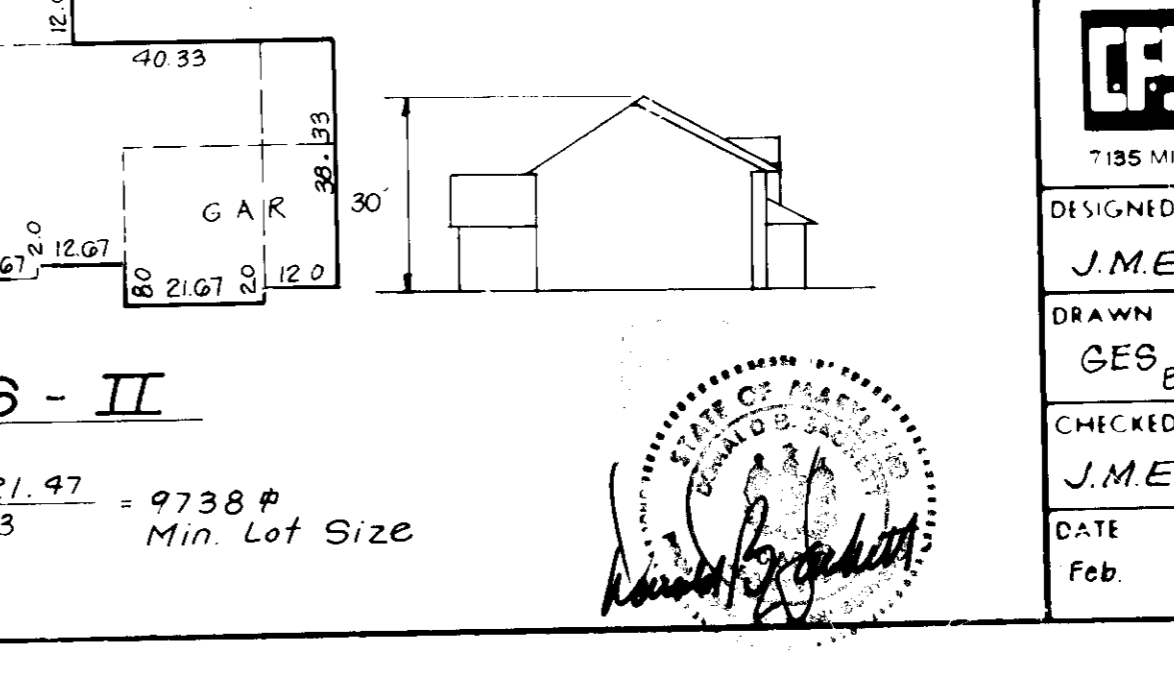
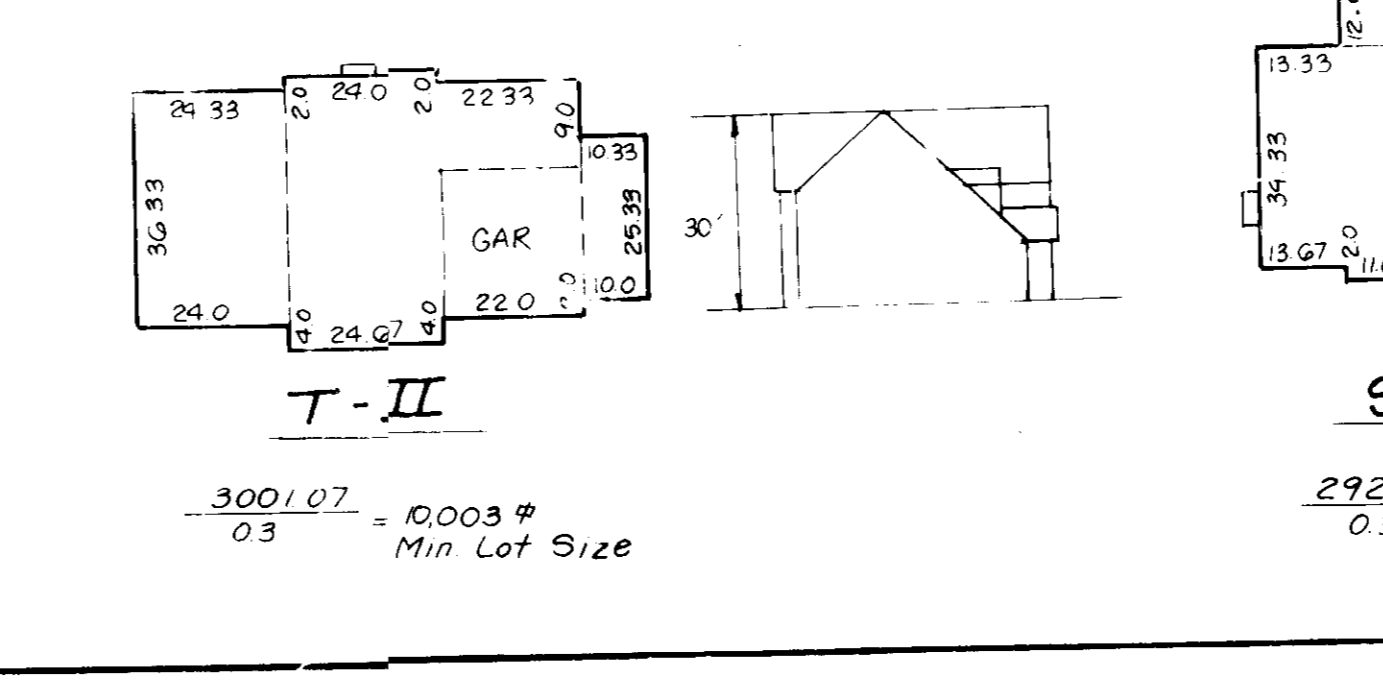
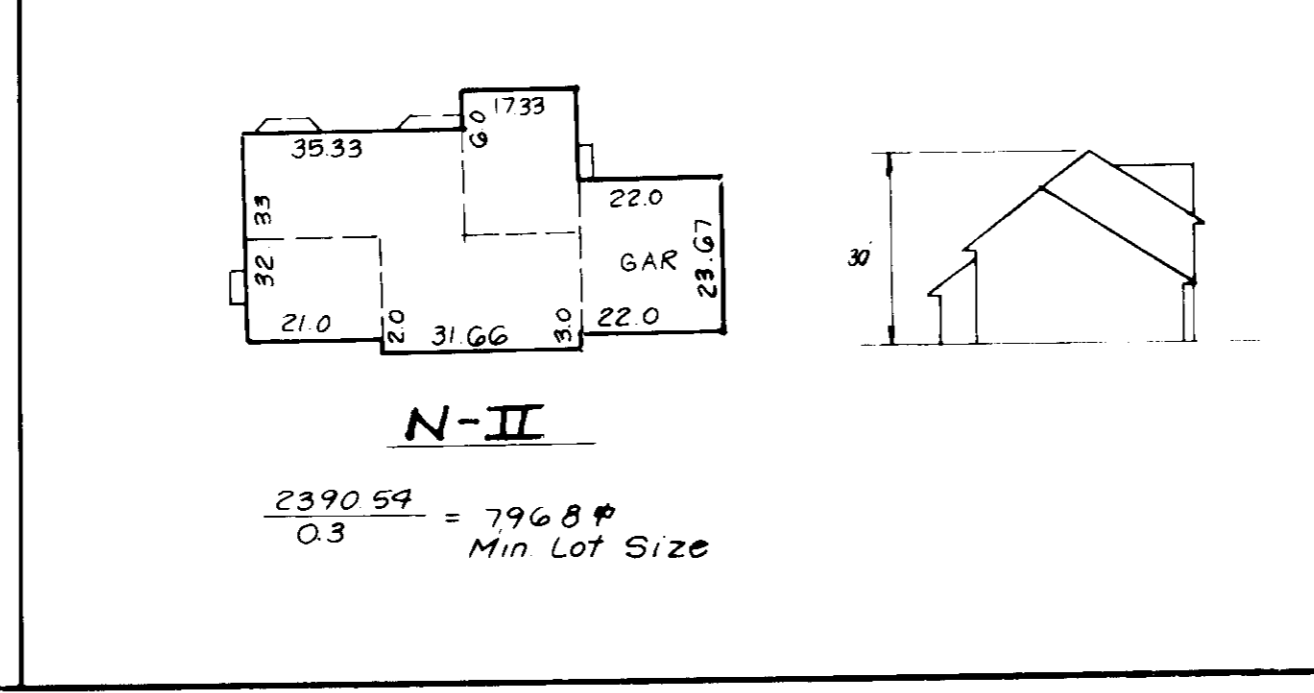
[Signature] PLANNING DIRECTOR
DATE: 4/25/90

[Signature] CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE: 7/25/90

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

[Signature] DIRECTOR
DATE: 4/6/90

[Signature] CHIEF BUREAU OF ENGINEERING
DATE: 4-16-90



PERMANENT SEEDING NOTES

Apply to graded 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, 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. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 10-0-0 urea-form 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 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 weeping lovegrass. During the period of October 16 thru February 29, 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/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 untreated 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 feet or higher, use 345 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 redistributed 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, 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 August 15 thru November 15, seed with 25 pounds per acre of annual ryegrass (0.2 lbs/1000 sq ft). For the period May 1 thru August 31, seed with 3 lbs per acre of weeping lovegrass (0.07 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 sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of untreated 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 feet or higher, use 345 gallons per acre (8 gal/1000 sq ft) for anchoring.

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

GENERAL NOTES

1. All construction shall be in accordance with the Maryland Department of Transportation and Permitting Division's Manual, 1992-2007.
 2. All construction shall be in accordance with the Maryland Department of Transportation and Permitting Division's Manual, 1992-2007.
 3. All construction shall be in accordance with the Maryland Department of Transportation and Permitting Division's Manual, 1992-2007.

4. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within 72 calendar days after application using mulch, straw, sod, dikes, perimeter slopes and all other measures to prevent erosion. The 72-day period shall begin on the date of initial soil disturbance or redisturbance on the project site.

5. All disturbed areas must be stabilized within the 72-day period specified above in accordance with the Maryland Department of Transportation and Permitting Division's Manual, 1992-2007.

6. All sediment control structures are to remain in place until approved for removal by the Howard County Department of Public Works. No removal of structures shall be permitted until approved by the Howard County Department of Public Works.

7. Site Analysis:
 Total Area of Site: 1.680 Acres
 Area Disturbed: 1.52 Acres
 Area to be graded or paved: 0.51 Acres
 Area to be vegetatively stabilized: 1.01 Acres
 Total Soil: 2410 Cu. yds
 Existing Subsoil: Undetermined

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 Department of Public Works.

10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
 11. If necessary, work shall be restricted to a 10-foot basis, at random, until sediment control as shown below shall be implemented.
 12. All grades to be shown at the end of each day (see detail below). N/A
 13. The final grade shall be shown at the end of each day (see detail below). N/A

14. The final grade shall be shown at the end of each day (see detail below). N/A

15. The final grade shall be shown at the end of each day (see detail below). N/A

16. The final grade shall be shown at the end of each day (see detail below). N/A

17. The final grade shall be shown at the end of each day (see detail below). N/A

18. The final grade shall be shown at the end of each day (see detail below). N/A

19. The final grade shall be shown at the end of each day (see detail below). N/A

20. The final grade shall be shown at the end of each day (see detail below). N/A

21. The final grade shall be shown at the end of each day (see detail below). N/A

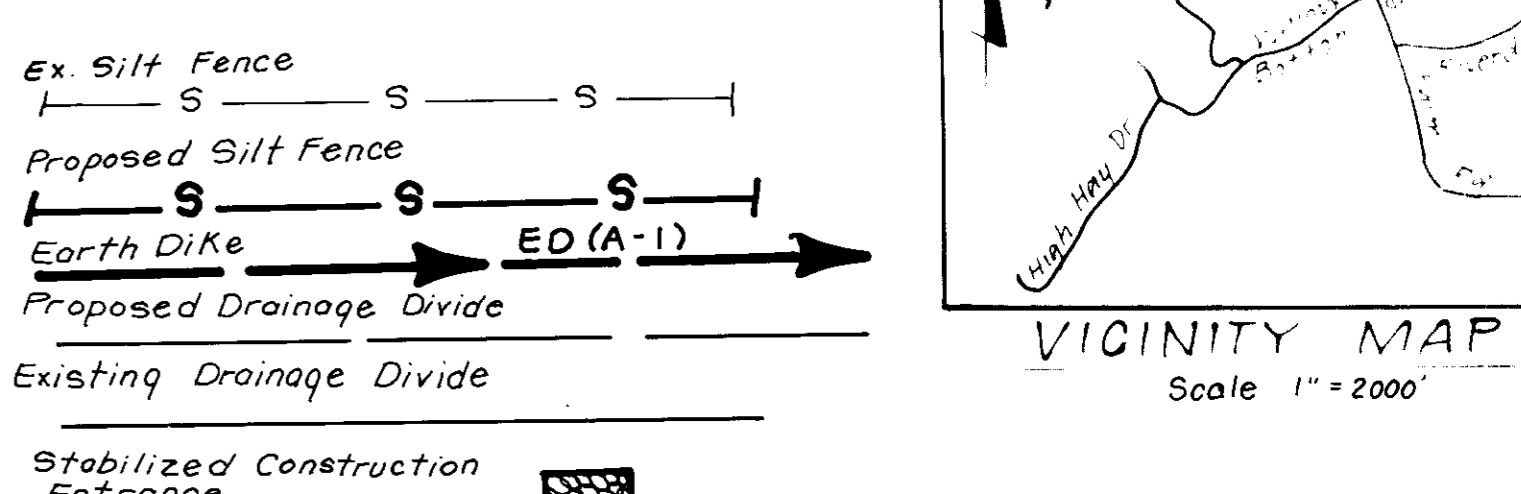
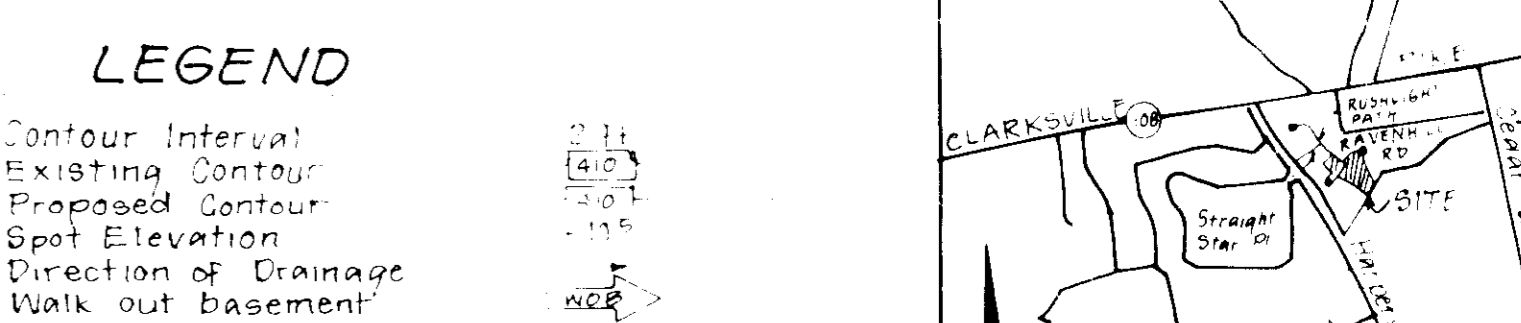
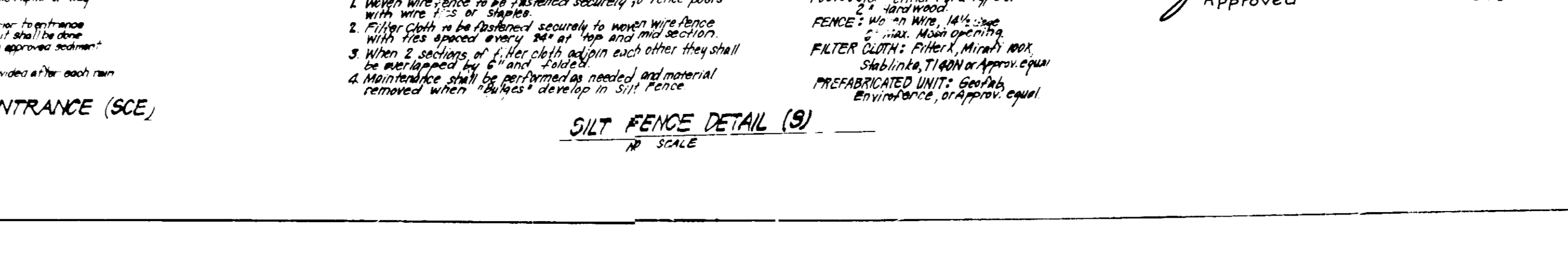
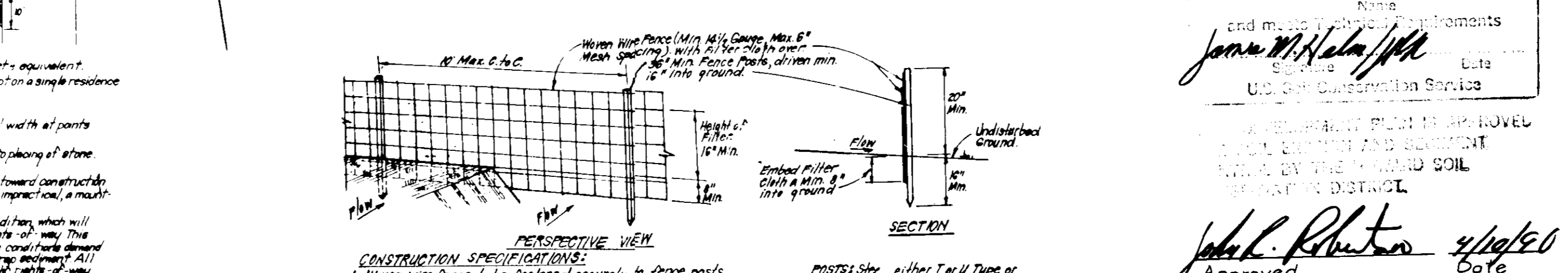
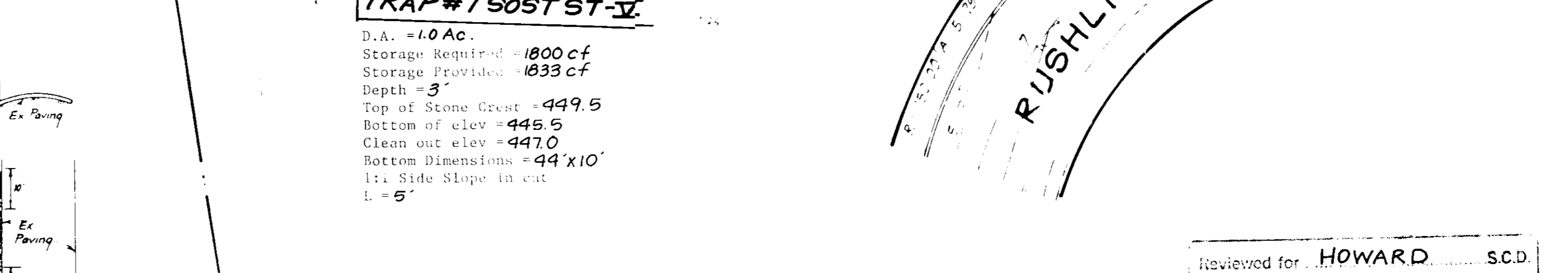
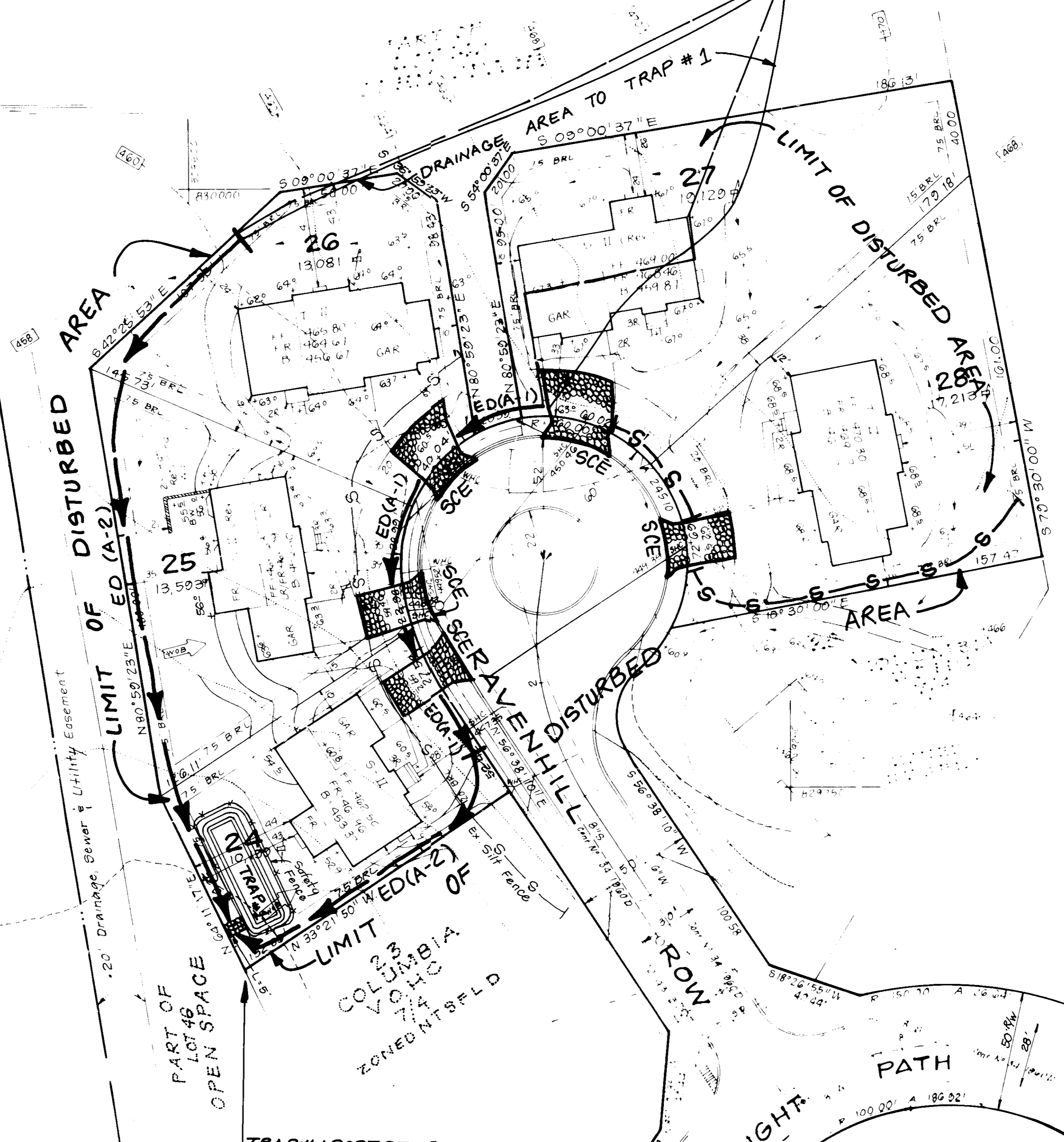
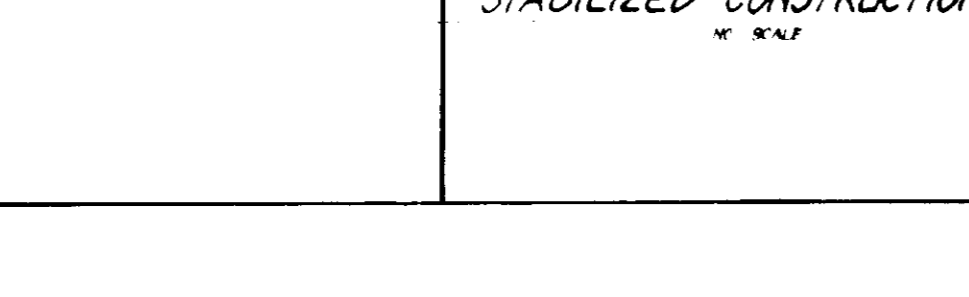
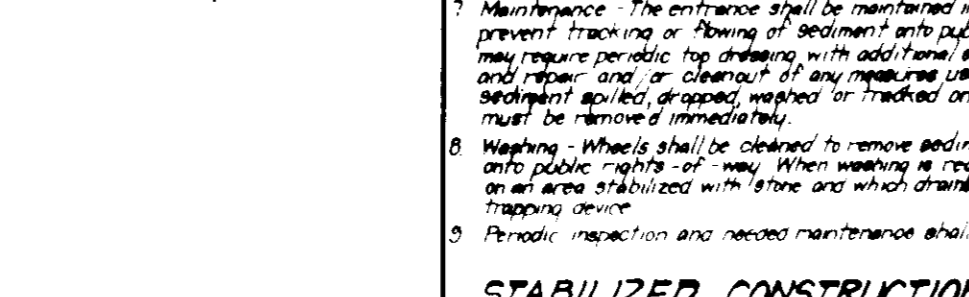
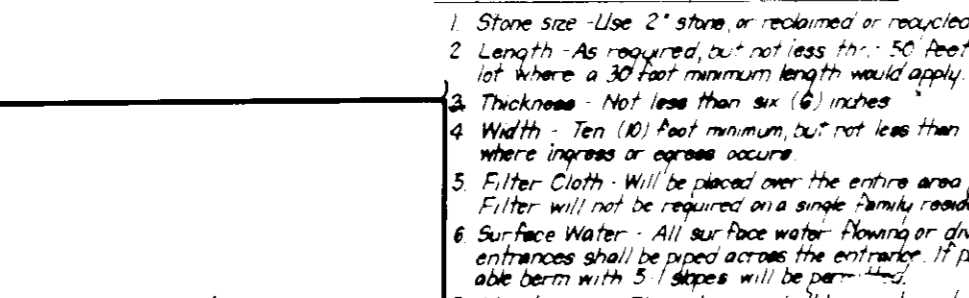
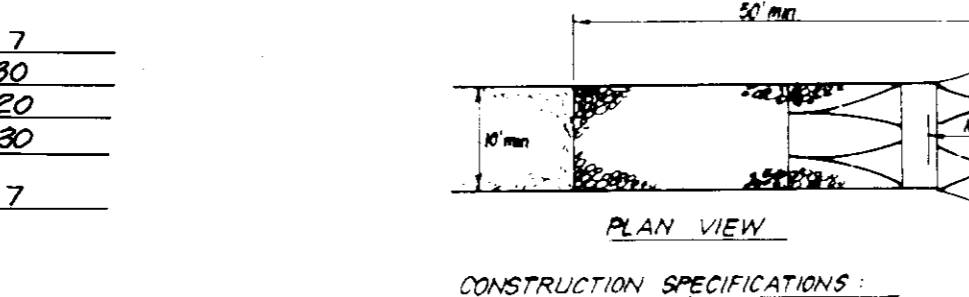
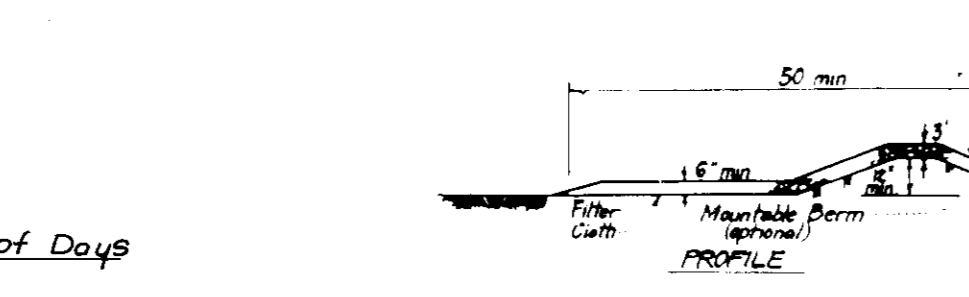
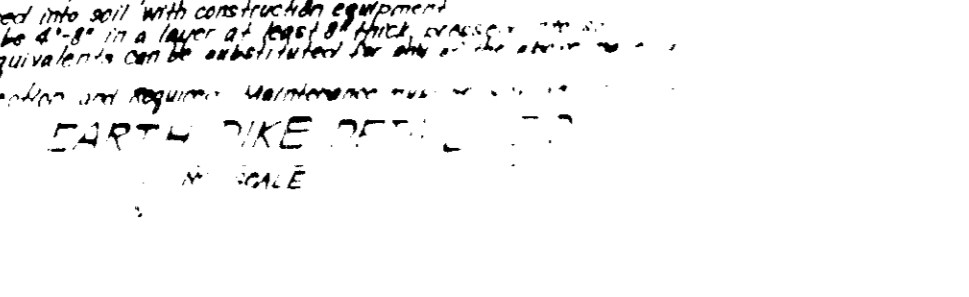
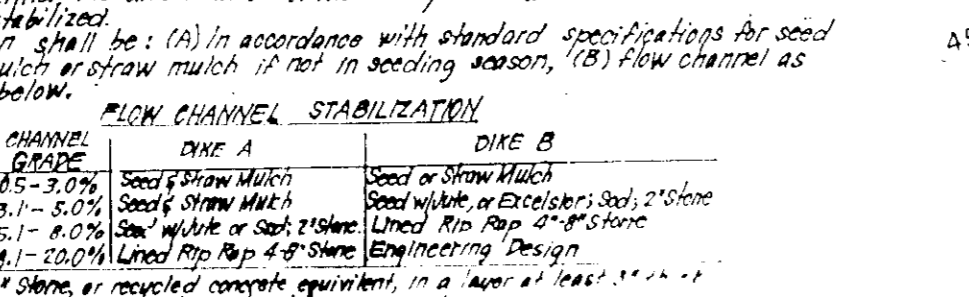
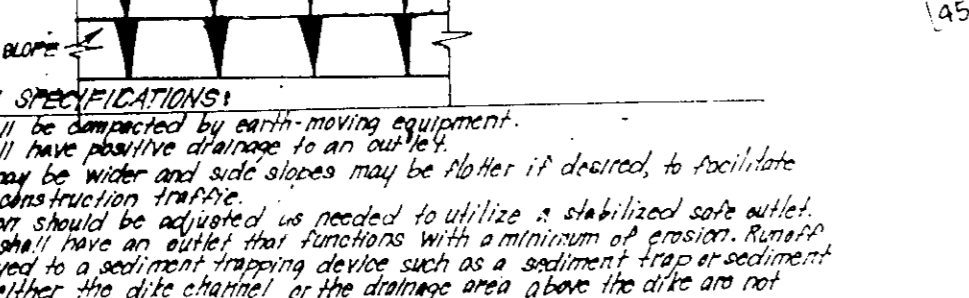
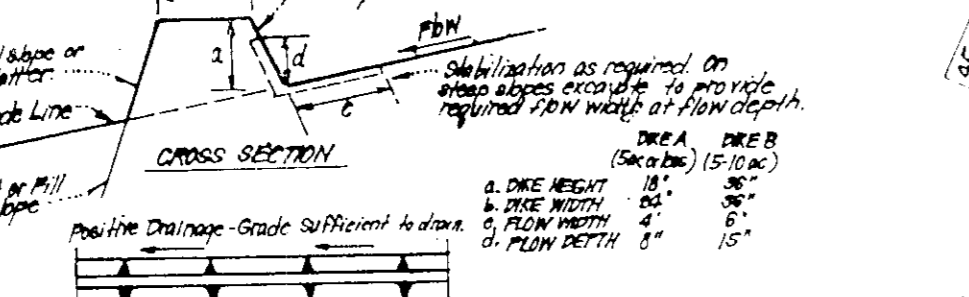
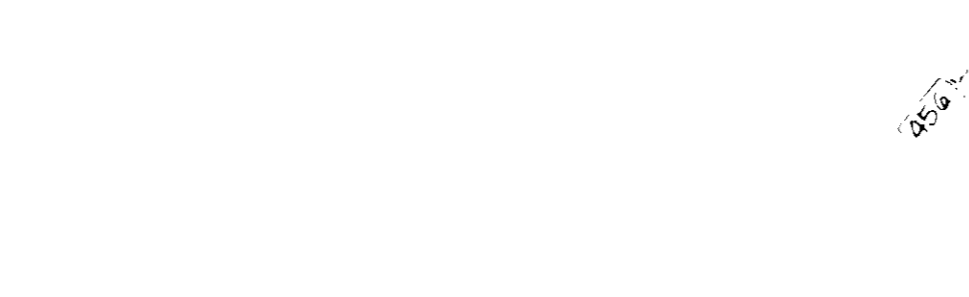
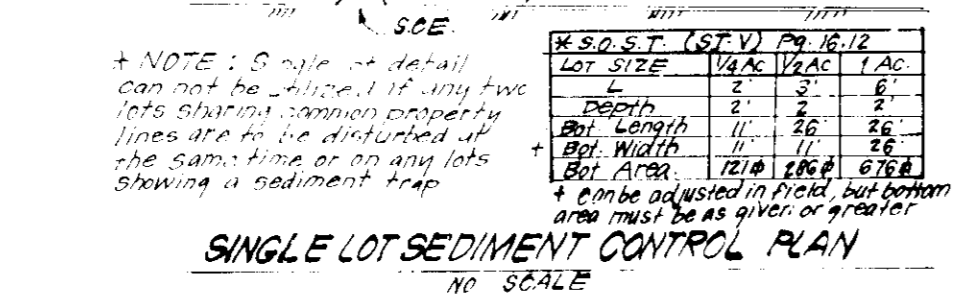
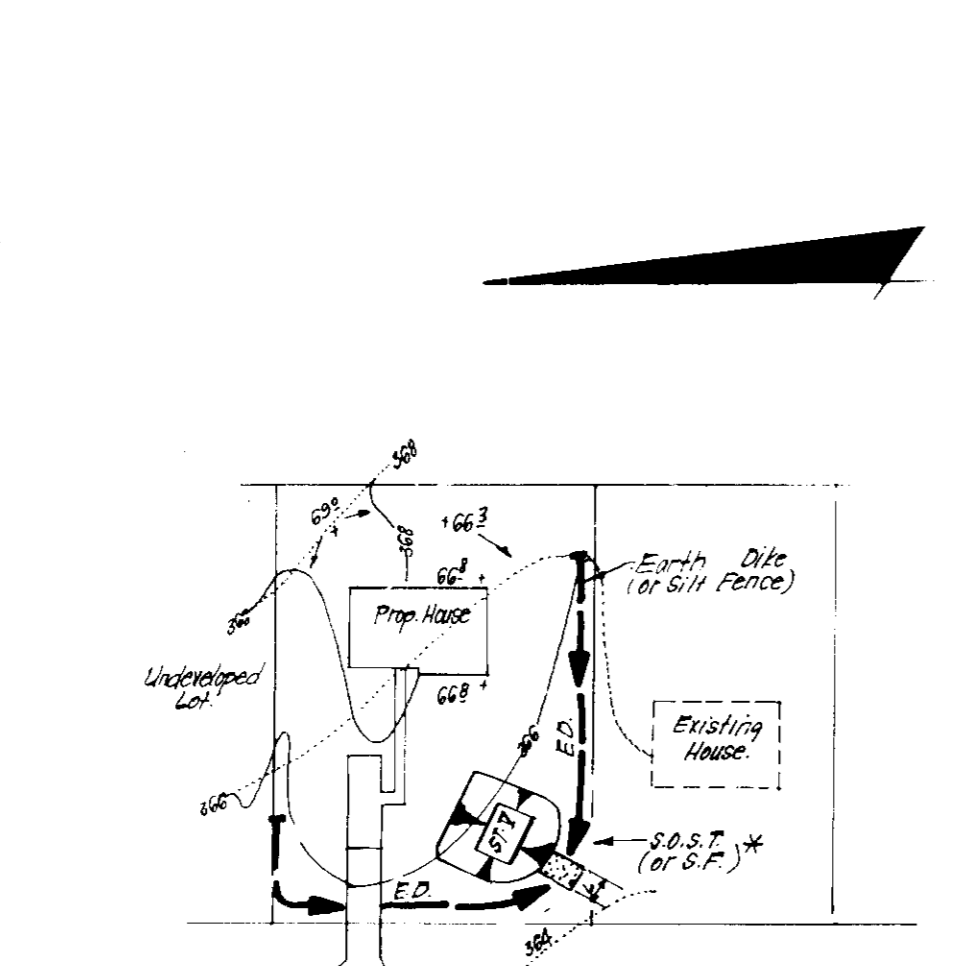
22. The final grade shall be shown at the end of each day (see detail below). N/A

23. The final grade shall be shown at the end of each day (see detail below). N/A

24. The final grade shall be shown at the end of each day (see detail below). N/A

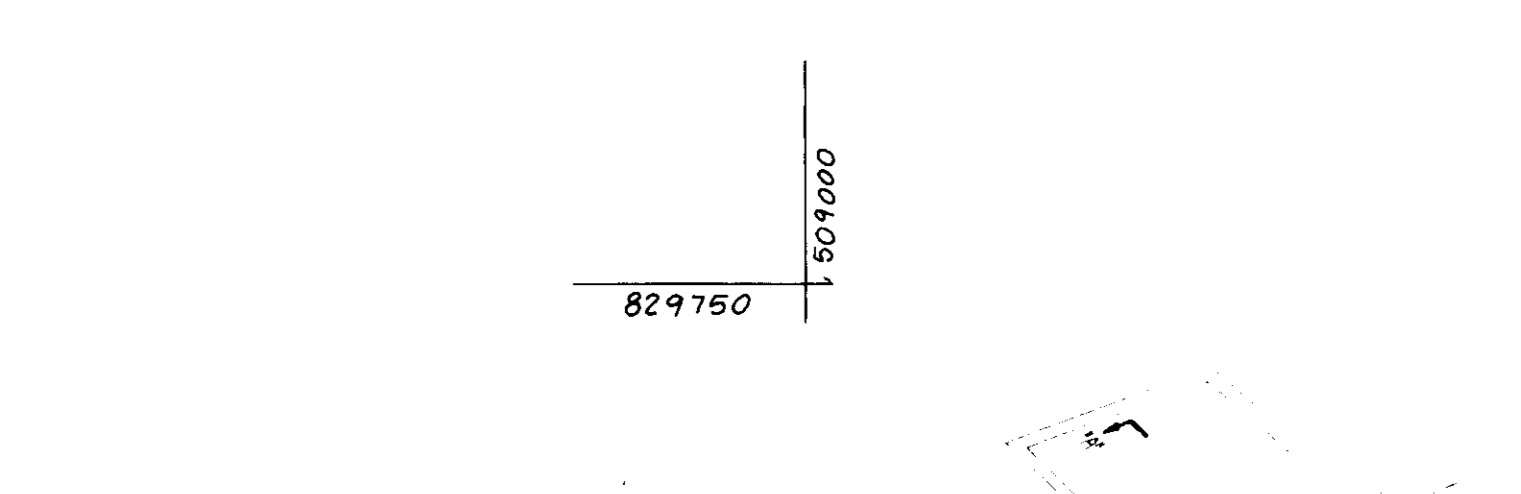
25. The final grade shall be shown at the end of each day (see detail below). N/A

26. The final grade shall be shown at the end of each day (see detail below). N/A



DEVELOPER CERTIFICATE
 I hereby certify that all development and construction will be done according to the 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 persons at site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

James Bradford
 Signature of Developer/Builder
 2-28-90
 Date



INSPECTOR CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control meets the requirements of the Maryland Department of Transportation and Permitting Division's Manual, 1992-2007, and the requirements of the Howard Soil Conservation District.

G. Nelson Clark
 Signature of Inspector
 2-28-90
 Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
John G. ...
 COUNTY HEALTH OFFICER
 DATE: 4-19-90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
...
 DIRECTOR
 DATE: 4/25/90

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
...
 DIRECTOR
 DATE: 4/25/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
...
 DIRECTOR
 DATE: 4-16-90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
...
 DIRECTOR
 DATE: 4-16-90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
...
 DIRECTOR
 DATE: 4-16-90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
...
 DIRECTOR
 DATE: 4-16-90

Reviewed for HOWARD COUNTY S.C.D. and made necessary adjustments
John W. ...
 DATE: 4/16/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John W. ...
 DATE: 4/16/90

DESIGNED: KIWM
 DRAWN: GES
 CHECKED: KIWM
 DATE: Feb 1990

CLARK • FINEROCK & SACKETT, INC.
 7155 MINISTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 BALTO • (301) 621-8100 WASH
SEDIMENT EROSION CONTROL PLAN
LOTS 24-28
COLUMBIA VILLAGE OF HARPERS CHOICE
 SECTION 7 AREA 4
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 For Columbia Building & Construction, Inc.
 89-144SE