

LEGEND

CONTOUR INTERVAL 2 FT
 EXISTING CONTOUR
 PROPOSED CONTOUR
 SPOT ELEVATION
 DIRECTION OF DIRECTION WALK-OUT BASEMENT

GENERAL NOTES

- SUBJECT PROPERTY IS ZONED: NEW TOWN - RMD.
- COORDINATES ARE BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM.
- ALL ROADS ARE PUBLIC AND EXISTING.
- ANY DAMAGE TO COUNTY OWNED RIGHTS-OF-WAY TO BE CORRECTED AT THE DEVELOPERS EXPENSE.
- TOTAL AREA INCLUDED: 4.0193 Acres
- TOTAL NUMBER OF LOTS: 16
- REFERENCE FINAL DEVELOPMENT PLAN CRITERIA PHASE 198.
- MAXIMUM BUILDING COVERAGE IS 30%.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION SURVEY DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 192-2630.
- THE EXISTING TOPO WAS TAKEN FROM PLANS PREPARED BY CENTURY ENGINEERING, INC.
- REFERENCE NOS: F-89-56, S-87-73, F-88-31, F-88-199, P-88-71, WP 89-23.
 *WAIVER FOR S.W.M. GRANTED JAN. 14, 1988 (F-88-199).

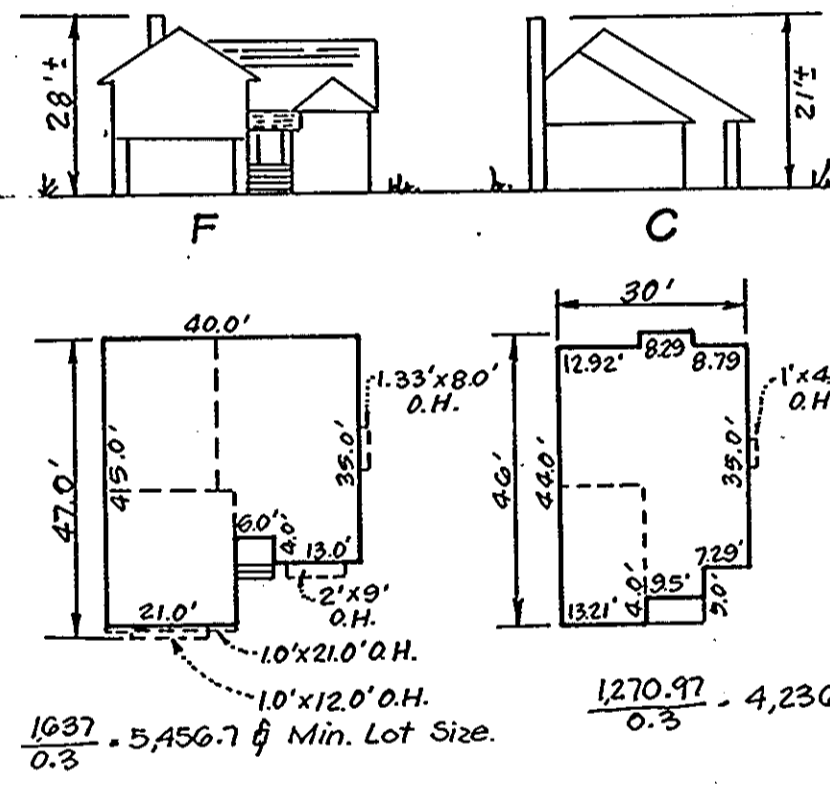
SPECIAL NOTES

- APPROVED ROAD CONSTRUCTION PLANS SHALL BE USED FOR ALL PUBLIC UTILITIES.
- PUBLIC WATER & SEWER SHOWN FOR REFERENCE ONLY. FOR MORE DETAILED INFORMATION SEE CONTRACT NO. 34-1816-D.
- THE WATER AND SEWER HOUSE CONNECTIONS NOT INCLUDED IN A DEVELOPERS AGREEMENT SHALL CONFORM TO HOWARD COUNTY PLUMBING CODE. THE ON-SITE W/HO SHALL BE 1/2" COPPER, THE S/HO SHALL BE 4" IRON.
- A WAIVER FROM STORMWATER MANAGEMENT FOR THIS SITE WAS GRANTED JAN. 1988, PREPARED BY CENTURY ENGINEERING, INC. (H.O. CO. FILE F-88-199).

* Note: Garages shall be used for parking purposes only on lots 30, 31, 33 and 40 in accordance with final development plan, Phase FDP-198, which requires 2 off-street parking spaces.

ADDRESS CHART

30	6902	PARCHMENT RISE
31	6906	"
32	6910	"
33	6914	"
34	6918	"
35	6922	"
36	6926	"
37	6930	"
38	6934	"
39	6938	"
40	6942	"
41	6946	"
42	6950	"
43	6954	"
44	6958	"
45	6901	PARCHMENT RISE



PLANT LIST

KEY	QUANTITY	BOTANICAL NAME COMMON NAME	SIZE	CONDITION	REMARKS
⊕	3	ACER RUBRUM RED SUNSET RED SUNSET MAPLE	1-1/4" CAL	B E B	
⊕	4	QUERCUS PALMSTRIS PIN OAK	1-1/4" CAL	B E B	
⊕	3	TILIA CORDATA LITTLELEAF LINDEN	1-1/4" CAL	B E B	
⊙	10	MALUS RADIANT RADIANT CRAB	5-6' HT	B E B	
⊙	33	PINUS STROBUS EASTERN WHITE PINE	5-6' HT	B E B	8-10' O.C.

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

James M. Boyd, M.D. 8-1-89
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

8-10-89
 PLANNING DIRECTOR DATE

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

7-28-89
 DIRECTOR DATE

7-28-89
 CHIEF BUREAU OF ENGINEERING DATE

APPROVED

DIVISION OF
 COMMUNITY PLANNING
 AND LAND DEVELOPMENT

HOWARD COUNTY,
 MARYLAND

6-15-89
 LKS

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

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 881-7500 • BALTO. • (301) 621-8100 • WASH.

DESIGNED: VHL
 DRAWN: GS/VLM
 CHECKED: JME
 DATE: 5-12-89

SITE DEVELOPMENT PLAN
 LOTS 30 - 45
COLUMBIA
 VILLAGE OF HICKORY RIDGE

SECTION 6 AREA 2
 5+1 ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

For: Goodier Builders, Inc.
 11207 Macbee Way
 Ellicott City, Maryland 21043

SCALE: 1" = 30'
 DRAWING: 1 OF 2
 JOB NO.: 89-045
 FILE NO.: 89-045-X

Water Code: H03 Sewer Code: 5758200

Subdivision Name - COLUMBIA Village of Hickory Ridge Sect./Area 6 2 Lots 30-45
 Plat No. 8458 Block No. G Zone New Town Tax/Map Elec. Dist. 41 5th Census Tr. 6051



PERMANENT SEEDING NOTES

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

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

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 granular 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 Abs/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 seeding 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 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 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 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 redistributed where a short-term vegetative cover is needed.

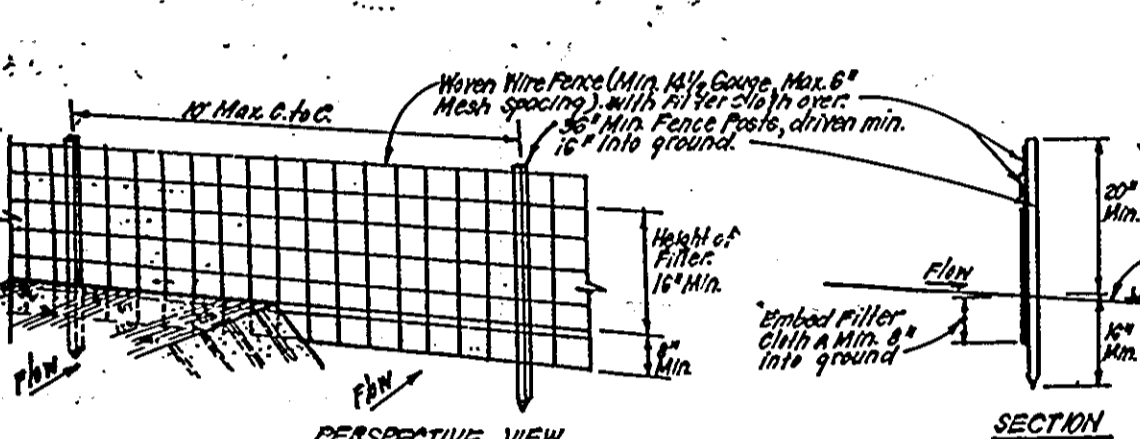
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously tilled.

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 25 bushels 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 seeding 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 sod.

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 feet or higher, use 348 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 rates and methods not covered.



CONSTRUCTION SPECIFICATIONS:

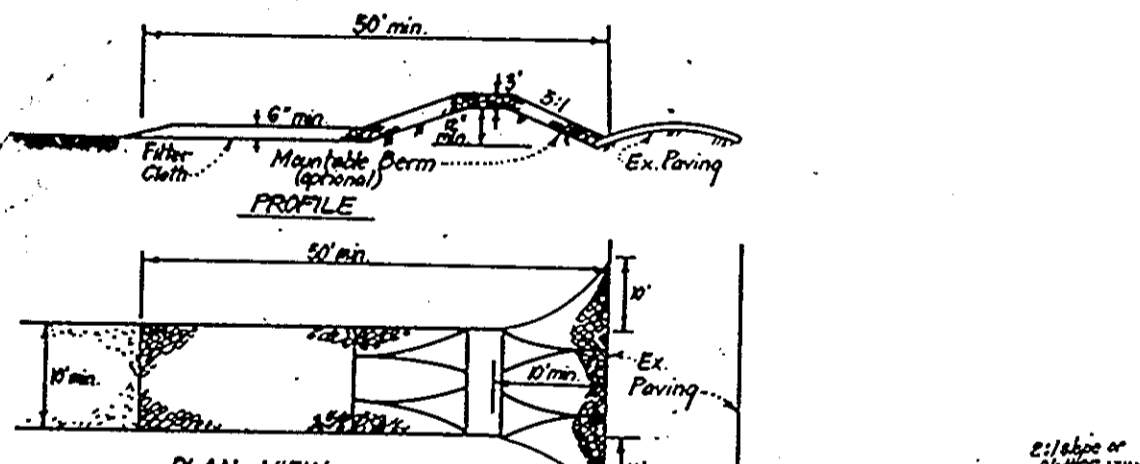
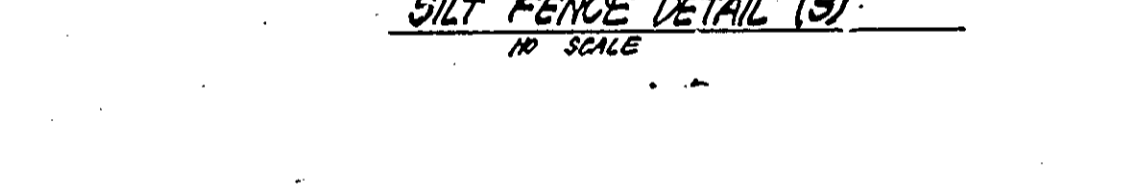
1. When wire fence is to be fastened securely to fence posts with wire, the wire shall be fastened to the posts with wire.
2. The filter cloth shall be fastened securely to the wire mesh with staples, with staples spaced every 36" at top and mid sections.
3. When a section of filter cloth remains each other they shall be fastened with staples.
4. Maintenance shall be performed as needed and material removed when required to develop in silt fence.

POSTS: Steel, either T or U Type or 2" Hardwood.

FENCE: Heavy Wire Mesh, 1/2" x 6" x 1/2" Mesh Opening.

FILTER CLOTH: Filter Cloth, 1/2" x 1/2" x 1/2" Mesh Opening, 1/2" x 1/2" x 1/2" Mesh Opening.

PREPARED: Filter Cloth, 1/2" x 1/2" x 1/2" Mesh Opening, 1/2" x 1/2" x 1/2" Mesh Opening.

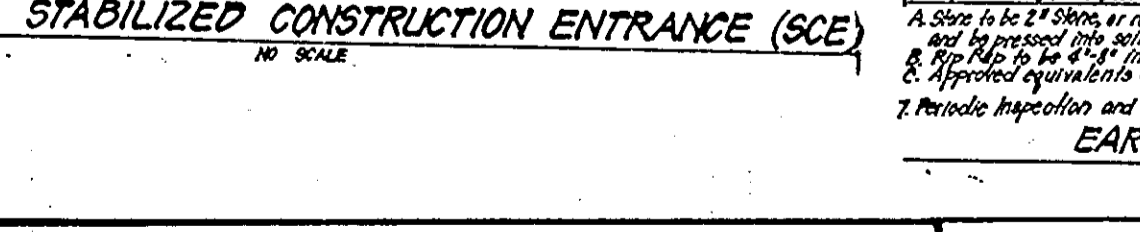


CONSTRUCTION SPECIFICATIONS:

1. Stone size - Use 2" stone, or rounded or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (Exception on a single 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 at points where it crosses or crosses a driveway.
5. Filter Cloth - Will be placed over the entire area prior to topsoil of stone. Filter cloth will not be required on a single family residence lot.
6. Surface Water - All surface water flowing in direction of construction, shall be piped across the entrance. If piping is impractical, a concrete curb with 5' top shall be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way. This may require periodic top dressing with additional stone, be conditionally damped and reseeded, or cleaned. If any means are used to trap sediment, they shall be removed immediately by tracked onto public rights-of-way.
8. Weeding - Weeds shall be cleared to remove sediment prior to entrance onto public rights-of-way. When weeding is required, it shall be done and area stabilized with stone and which extend into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE (SCE)

EARTH DIKE DETAIL (E.D.)

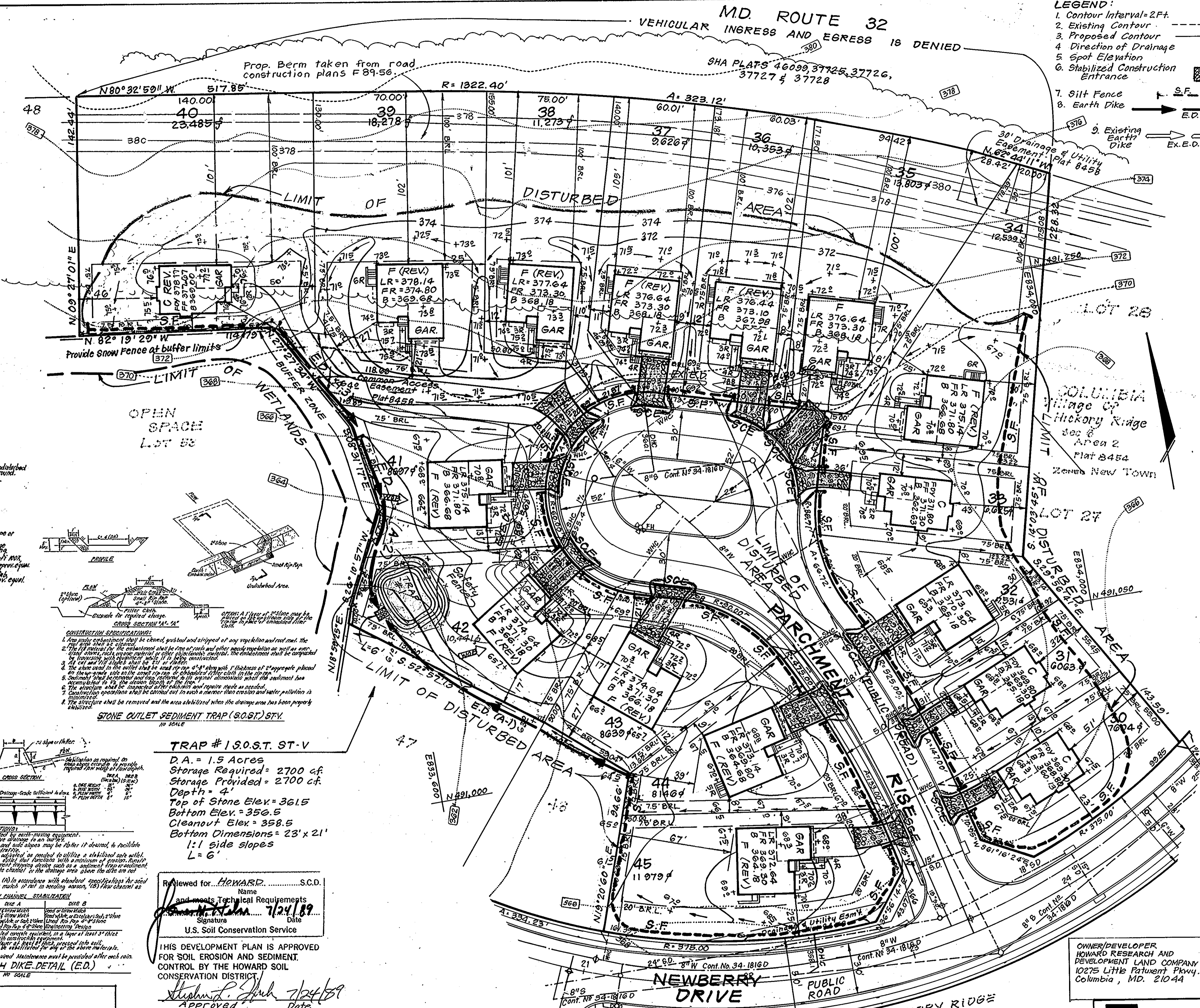


APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 8-1-89

APPROVED: FOR PLANNING AND ZONING.
HOWARD COUNTY DEPT. OF PLANNING & ZONING
DATE: 8-10-89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, PUBLIC ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 7-28-89

APPROVED: DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT.
HOWARD COUNTY, MARYLAND
DATE: 6-15-89



TRAP #1 S.O.S.T. ST-V
D.A. = 1.5 Acres
Storage Required = 2700 cf
Storage Provided = 2700 cf
Depth = 4'
Top of Stone Elev. = 361.5
Bottom Elev. = 356.5
Cleanout Elev. = 358.5
Bottom Dimensions: 23' x 21'
1:1 side slopes
L = 6'

CONSTRUCTION SPECIFICATIONS:

1. The stone shall be clean, rounded and free of any vegetation and soil.
2. The stone shall be placed in a continuous layer of 4' thickness.
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9. The stone shall be placed in a continuous layer of 4' thickness.
10. The stone shall be placed in a continuous layer of 4' thickness.

STONE OUTLET SEDIMENT TRAP (S.O.S.T.) ST-V

CONSTRUCTION SPECIFICATIONS:

1. The stone shall be clean, rounded and free of any vegetation and soil.
2. The stone shall be placed in a continuous layer of 4' thickness.
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10. The stone shall be placed in a continuous layer of 4' thickness.

REVIEWED FOR: HOWARD COUNTY, S.C.D.
Name: Howard County S.C.D.
Signature: [Signature]
Date: 7/24/89
U.S. Soil Conservation Service

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

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 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 required necessary."

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.

CONSTRUCTION SEQUENCE:

DESCRIPTION	# OF DAYS
A. Obtain Grading Permit and Install Sediment and Erosion Control Devices and Stabilize.	7
B. Excavate for Foundations and Rough Grade of Temporarily Stabilize.	30
C. Construct Structures, Sidewalks and Driveways.	120
D. Final Grade and stabilize in accordance with Stds. & Specs.	30
E. Upon approval of the sediment control inspector, remove sediment and erosion controls and stabilize.	7

Notes: Provide snow fence at buffer limits.

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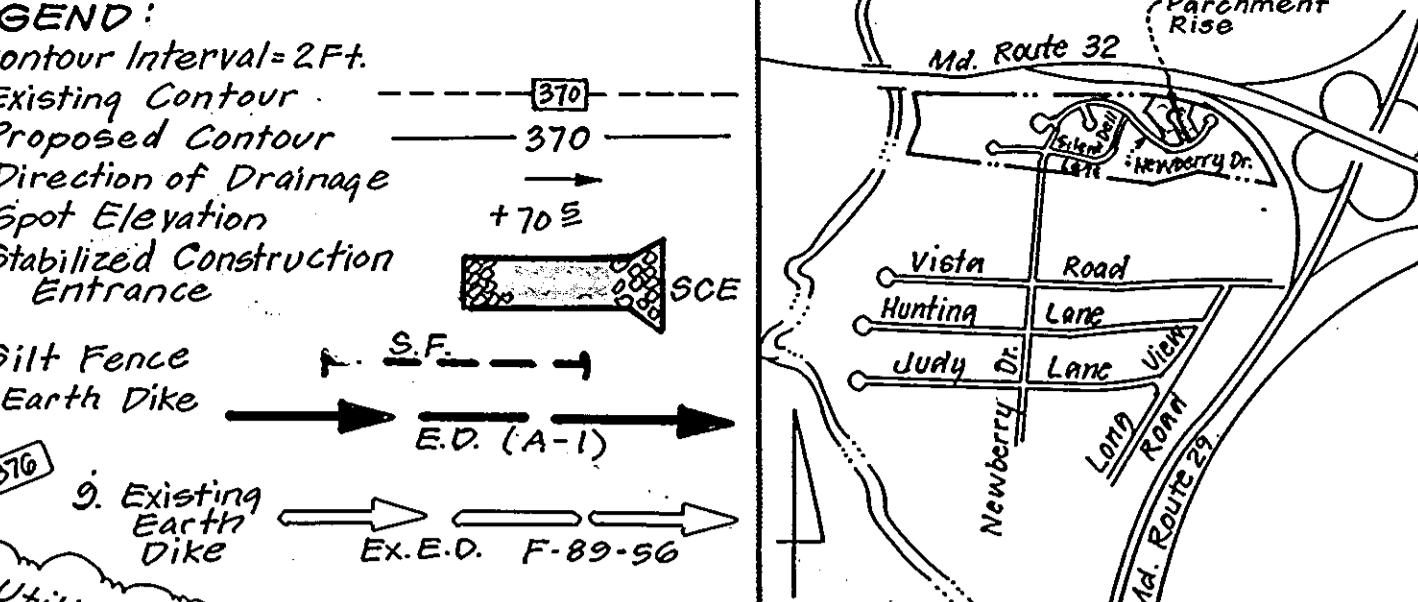
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HOWARD COUNTY, MARYLAND
DATE: 6-15-89



VICINITY MAP
Scale: 1" = 2000'

LEGEND:

1. Contour Interval = 2 Ft.
2. Existing Contour
3. Proposed Contour
4. Direction of Drainage
5. Spot Elevation
6. Stabilized Construction Entrance
7. Silt Fence
8. Earth Dike

SEEDING CONTROL PLAN:

- 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. (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in accordance 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: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all storm drains greater than 24" diameter; b) 14 days for 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 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: 4.02 Acres
Area Disturbed: 3.15 Acres
Area to be roofed or paved: 0.28 Acres
Area to be vegetatively stabilized: 2.2 Acres
Total Cut: 3807 Cu. Yds
Total Fill: 503 Cu. Yds
Offsite waste/borrow area location: N/A
- 8) Any sediment control practices 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 DCM sediment control inspector.
- 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 disturbance or grading. Other building or grading inspection approvals may not be authorized until this approval is received. Inspection agency is made.
- 11) If houses are to be constructed on a "fill" basis, as required, Single Lot Sediment Control as shown below shall be implemented.
- 12) All lots to be blocked at the end of each day (see detail below). N/A
- 13) The total amount of straw bale dikes/silt fence equals 1522 L.F.

SINGLE LOT SEDIMENT CONTROL PLAN

* NOTE: Single lot detail can not be utilized if any two lots sharing common property lines are to be disturbed at the same time on any lots showing a sediment trap.

OWNER/DEVELOPER: HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY, 10275 Little Patuxent Pkwy., Columbia, MD. 21044

Subdivision Name: COLUMBIA Village of Hickory Ridge

Section/Area: 2

Lots: 30-45

Flat #: 8458

Block #: 6

Zone: New Town

Tax/Map #: 41

Elec. Dist.: 5th

Census Tr.: G051

Water Code: H03

Sewer Code: 5789200

CLARK • FINECROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
1215 MANSFIELD WAY • COLUMBIA MD 21046 • (301) 981-7500 BALTO • (301) 671-8100 WASH

DESIGNED: KRW

DRAWN: GAV

CHECKED: KWM

DATE: 5-12-89

SCALE: 1" = 30'

DRAWING: 2 OF 2

JOB NO.: 89-045

FILE NO.: 89-045SE

For: Gooder Builders, Inc., 11207 McGee Way, Ellicott City, Maryland 21043

SPP - 89-236