

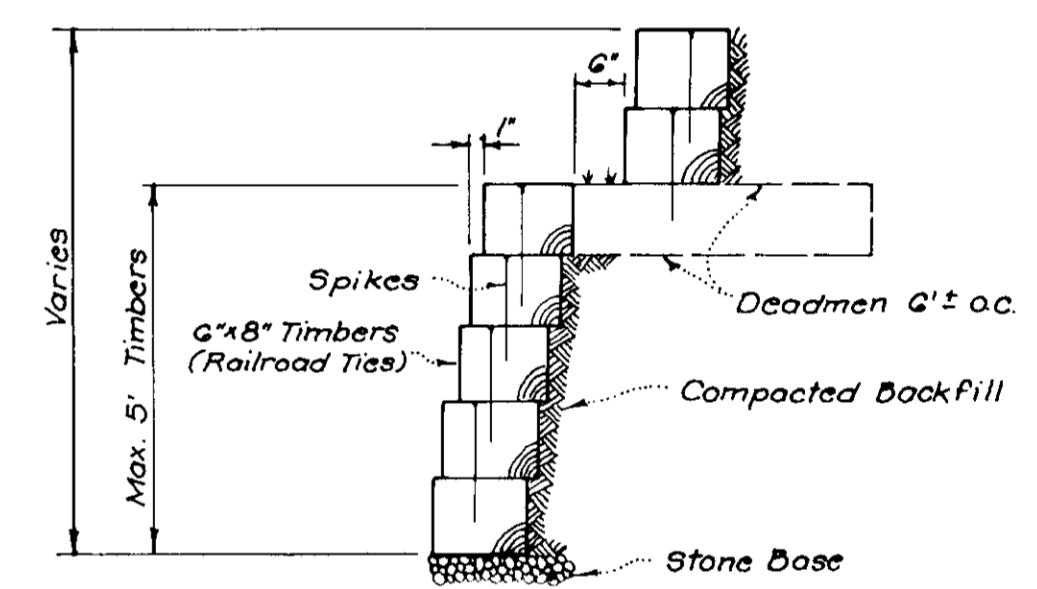
VICINITY MAP  
SCALE: 1"=2000'

**GENERAL NOTES:**

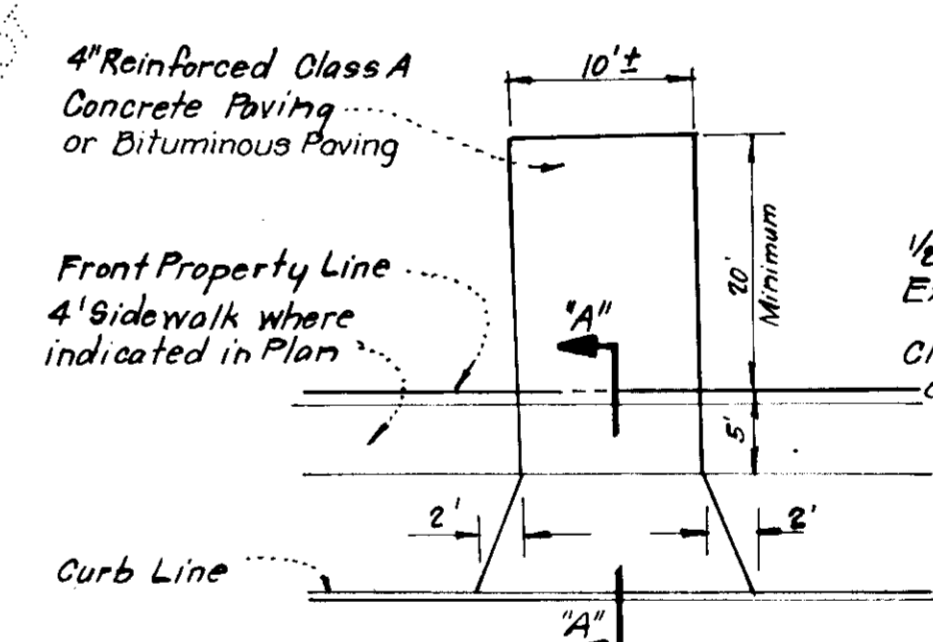
1. The Land included in this plan is zoned Newtown (S.F.M.D.).
2. The Lots shown on this plan are covered by Final Development Plan Phase 170 recorded in Plats 3054 A-48 thru 3054 A-51.
3. All coordinates are based on Maryland State Grid System. Elevations are based on U.S. Coast & Geodetic Survey Mean Sea Level Datum of 1929.
4. The area covered in this submission is located on Tax Map #34437.
5. The total area included in this plan is 3.388 Acres.
6. All road ways are public & existing.
7. Any damage to county owned rights of way or paving shall be corrected at the developer's expense.

**LEGEND:**

1. Contour Interval 2 Ft.
2. Existing Contour
3. Proposed Contour
4. Spot Elevation
5. Direction of Drainage
6. Retaining Wall
7. Existing Trees to be Retained
8. Basement Walkout - B.W.O.

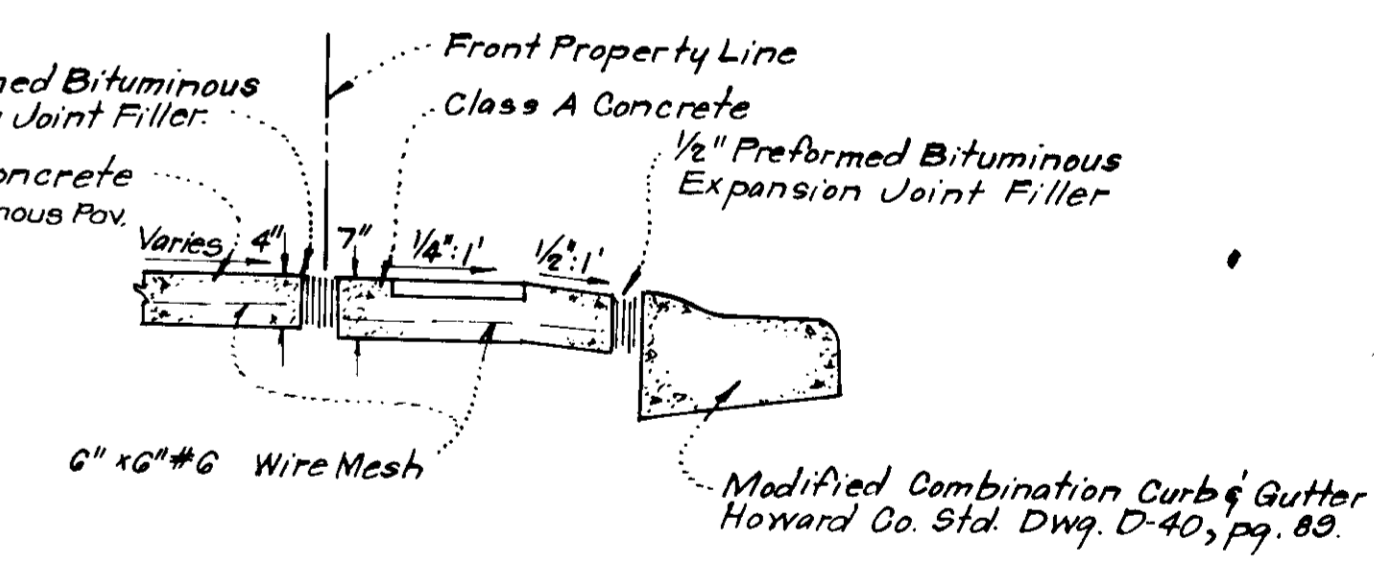


**TIMBER RETAINING WALL**  
No Scale



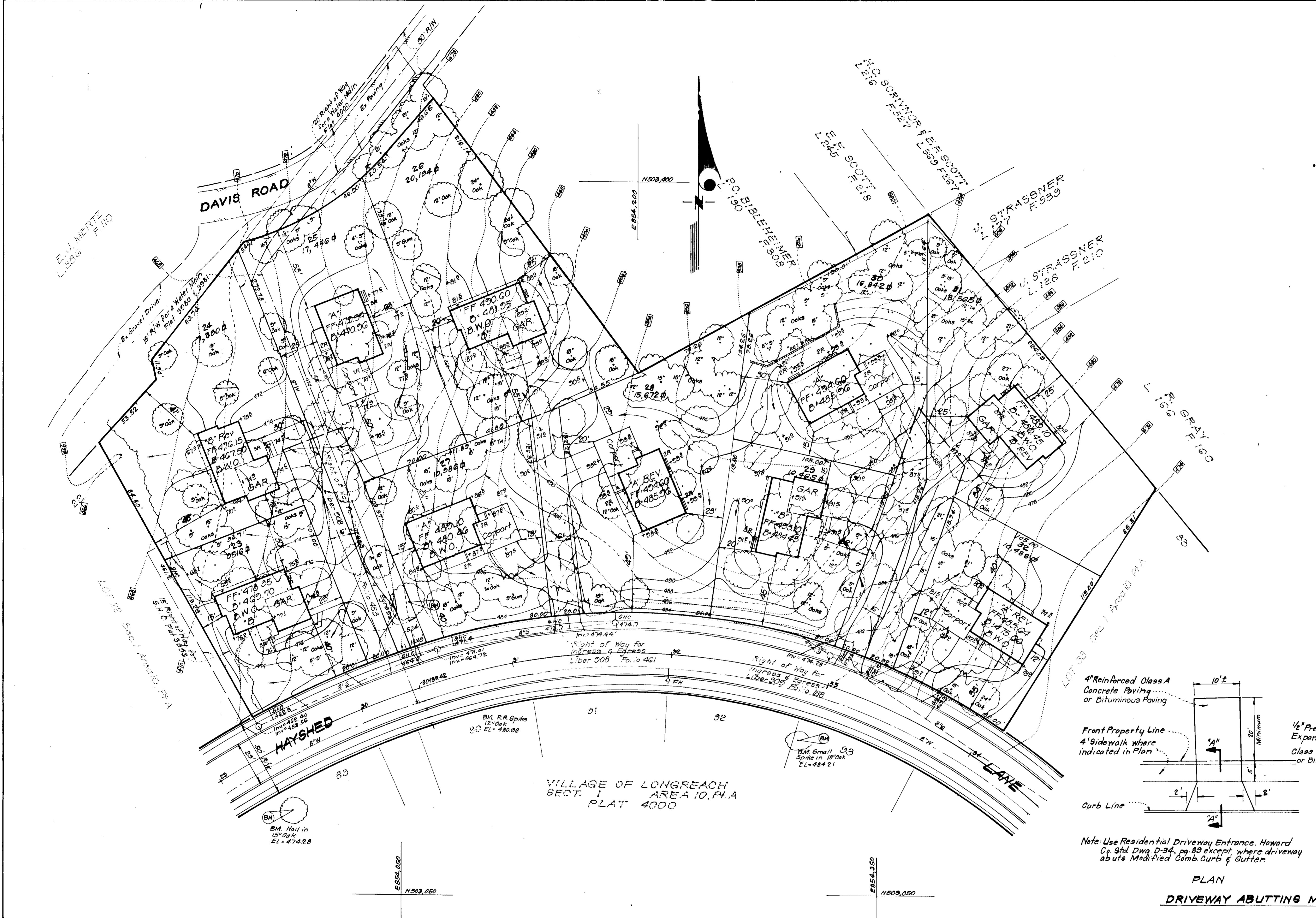
Note: Use Residential Driveway Entrance, Howard Co. Std. Dwg. D-34, pg. 89 except where driveway abuts Modified Comb. Curb & Gutter.

**DRIVEWAY ABUTTING MODIFIED COMB. CURB & GUTTER**  
No Scale

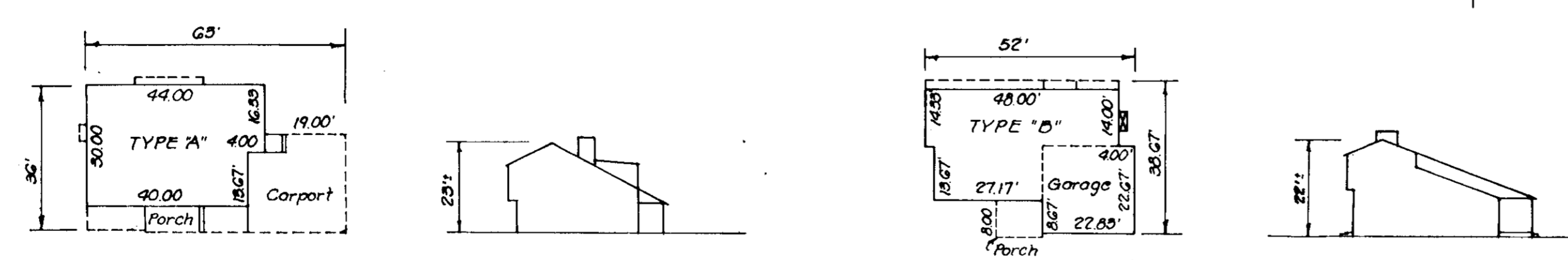


Note: Materials and Construction shall be in accordance with Howard Co. Road Construction Code.

**SECTION "A-A"**



VILLAGE OF LONGREACH  
SECT. 1 AREA 10, PLAT 4000



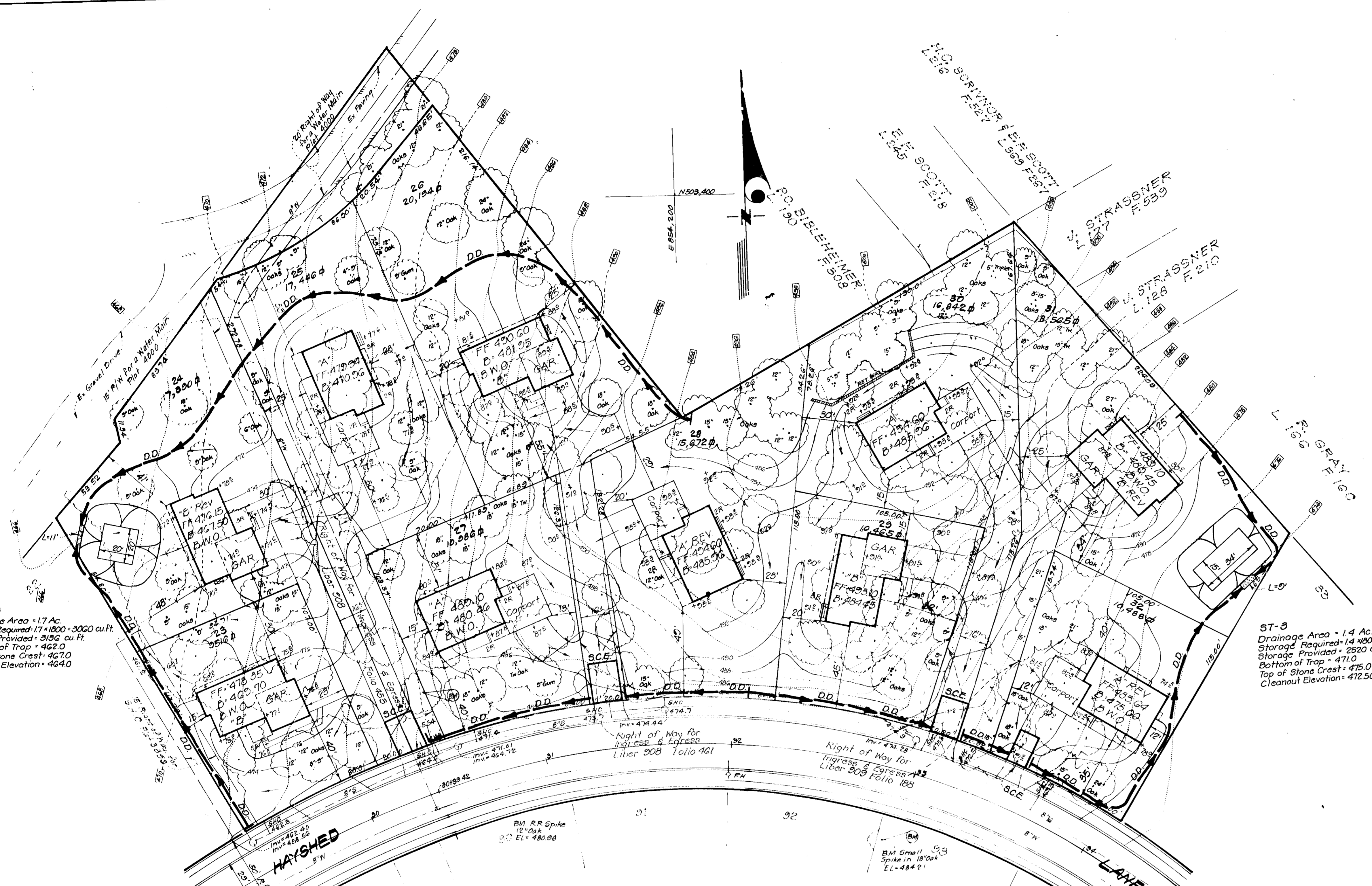
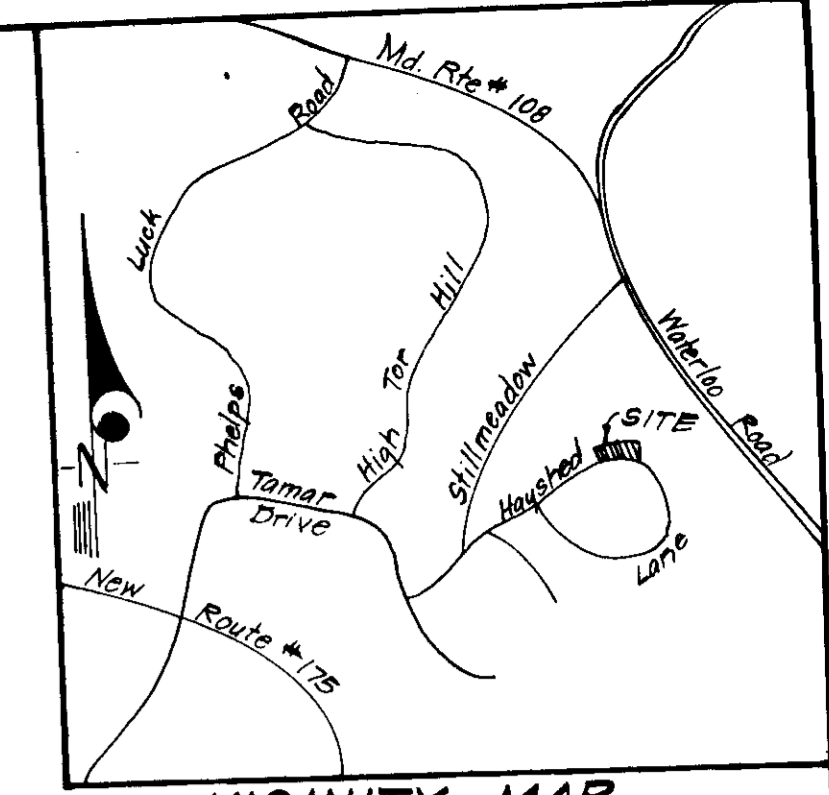
**TYPICAL HOUSES**  
No Scale

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
DATE 12-6-78  
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
DATE 12-7-78  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE 12-11-78  
DATE 12-1-78

APPROVED  
DIVISION OF LAND DEVELOPMENT  
DATE 9-8-78  
HOWARD COUNTY, MARYLAND

<b>CLARK • FINEFROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED J.M.E.	SITE DEVELOPMENT PLAN LOTS 23 THRU 32	SCALE 1"=30'
DRAWN J.M.E.	<b>COLUMBIA</b>	DRAWING 1023
CHECKED D.B.S.	VILLAGE OF LONGREACH SECTION 1 AREA 10, PLAT 4000 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.
DATE July, 1978	FOR: TROUTMAN COMPANY Suite 300, White Lake Village Green Columbia, Maryland 21044	FILE NO. 1362-X
SDP-79-27c		

Also See 376-RC-1806-SL



- GENERAL NOTES:**
1. The Land included in this plan is zoned Newtown (S.F.M.D.).
  2. The Lots shown on this plan are covered by Final Development Plan Phase 170 recorded in Plats 3054 A-48 thru 3054 A-51.
  3. All coordinates are based on Maryland State Grid System. Elevations are based on U.S. Coast & Geodetic Survey Mean Sea Level Datum of 1929.
  4. The area covered in this submission is located on Tax Map #3c437.
  5. The total area included in this plan is 3.383 Acres.
  6. All road ways are public & existing.
  7. Any damage to county owned rights of way or paving shall be corrected at the developer's expense.

- LEGEND:**
1. Contour Interval 2 Ft.
  2. Existing Contour
  3. Proposed Contour
  4. Spot Elevation
  5. Direction of Drainage
  6. Retaining Wall
  7. Existing Trees to be Retained
  8. Diversion Dike
  9. Stone Construction Entrance 3.C.E.

ST-5  
 Drainage Area - 1.7 Ac.  
 Storage Required - 17,400 - 3020 cu. ft.  
 Storage Provided - 5136 cu. ft.  
 Bottom of Trap - 462.0  
 Top of Stone Crest - 467.0  
 Cleanout Elevation - 464.0

ST-3  
 Drainage Area - 1.4 Ac.  
 Storage Required - 14,400 - 2520 cu. ft.  
 Storage Provided - 2520 cu. ft.  
 Bottom of Trap - 471.0  
 Top of Stone Crest - 475.0  
 Cleanout Elevation - 472.50

VILLAGE OF LONGREACH  
 SECT. 1 AREA 10, P.L.A.  
 PLAT 4000

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 HOWARD COUNTY, MARYLAND  
 DATE 9-8-78



Note: For Bearings and Distances of Individual Lots, See Record Plat Recorded as Plats 3999 and 4000.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER  
 DATE 12-6-78

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 PLANNING DIRECTOR  
 CHIEF DIVISION OF LAND DEVELOPMENT  
 DATE 12-11-78

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR  
 DATE 12/1/78

Reviewed for Howard S.C.D.  
 Name  
 and meets Technical Requirements  
 C. Wagner King 11-27-78  
 Signature Date  
 U.S. Soil Conservation Service

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

WES FARR Approved 11-27-78 Date

**DEVELOPER'S CERTIFICATE**  
 I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I do authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

John Troutman 8/1/78 Date  
 Signature JOHN TROUTMAN

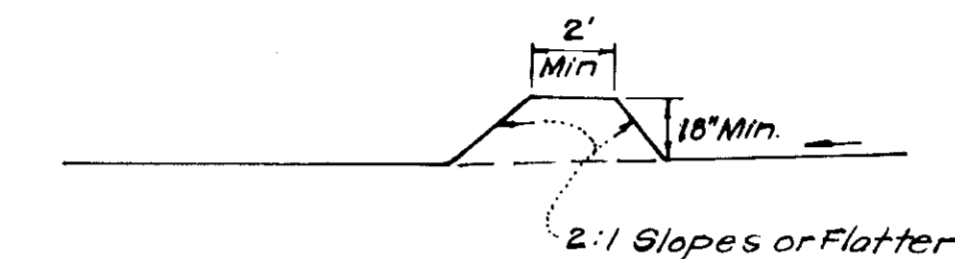
**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

G. Nelson Clark 8-17-78 Date  
 Signature

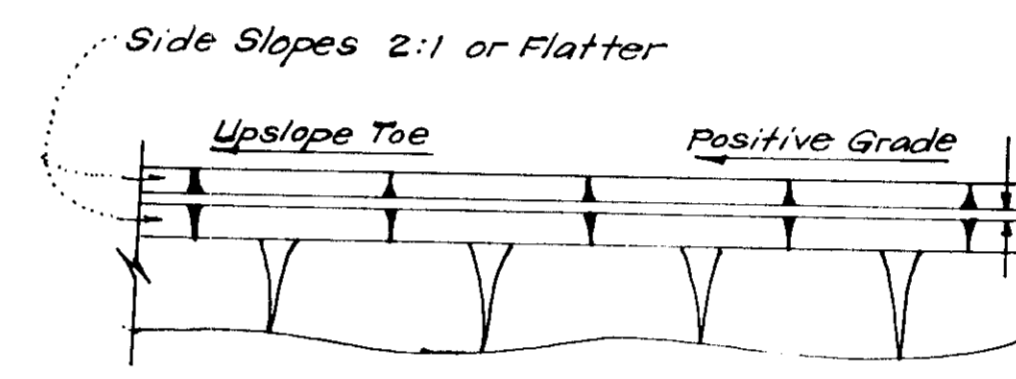
<b>CLARK • FINROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400		SCALE 1" = 30' DRAWING 2 of 3 JOB NO.
DESIGNED J.L.S. DRAWN J.M.C. CHECKED J.L.S. DATE July, 1978	<b>SITE DEVELOPMENT PLAN          SEDIMENT &amp; EROSION CONTROL PLAN          LOTS 23 THRU 32          COLUMBIA          VILLAGE OF LONGREACH          SECTION 1 AREA 10, P.L.A.          6th ELECTION DISTRICT          HOWARD COUNTY, MARYLAND</b>	FILE NO. 1505-5E SDP-79-27c Also See 1502 X 375 HC

**GENERAL NOTES**

- Grading Permits shall be obtained prior to installation of Sediment Control & Grading
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See Note #5 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs/1000 s.f.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
- Stabilization of Disturbed Ground to be done as soon after construction as possible.
- All Grading shall be treated in accordance with the following Specifications:
  - Seed - certified 85% germination applied at the rate of 3 lbs/1000 s.f. mixture - 40% Kentucky Blue, 20% Chewing Fescue, 20% Kentucky 31, and 20% annual rye.
  - Fertilizer - 10-10-10 applied at the rate of 23 lbs/1000 sq. ft. Ground Agricultural Lime or Dolomitic Lime applied at the rate of 46 lbs/1000 s.f.
  - Mulch - Weed Free grain straw applied at the rate of 70 lbs/1000 s.f. Mulch shall be secured to the ground by any approved method i.e. asphalt tacks, chemical binders, wood chips, etc.
- All Structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On Site Inspection and Maintenance of all Sediment Control Measures including clean out of sediment traps and dikes, and proper establishment of all planned vegetative measures will be the responsibility of the Developer or his representative on the site, on a continuing day to day basis.
- Protection of stabilized area from sediment runoff shall be provided by the use of an approved Sediment Control Device, i.e. straw bale, diversion dike, etc.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Stabilized Construction Entrances shall be placed at all construction entrances.
- SITE ANALYSIS:**
  - Total Area = 3.388 Ac.
  - Area to be Raveled = 0.432 Ac.
  - Area to be Seeded = 1.582 Ac.
  - Area Undisturbed = 1.041 Ac.
- CONSTRUCTION SEQUENCE:**
  - Install Sediment & Erosion Control Devices and stabilize Diversion Dike.
  - Excavate for Foundations and Rough Grade.
  - Erect Structures, Driveways and Sidewalks.
  - Final Grade and stabilize in accordance with Note # G.
- It will be the developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.



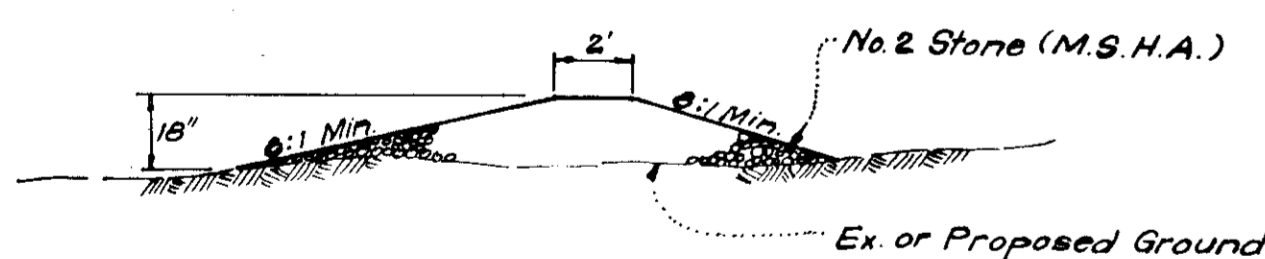
CROSS SECTION



PLAN VIEW

DIVERSION DIKE (D.D.)

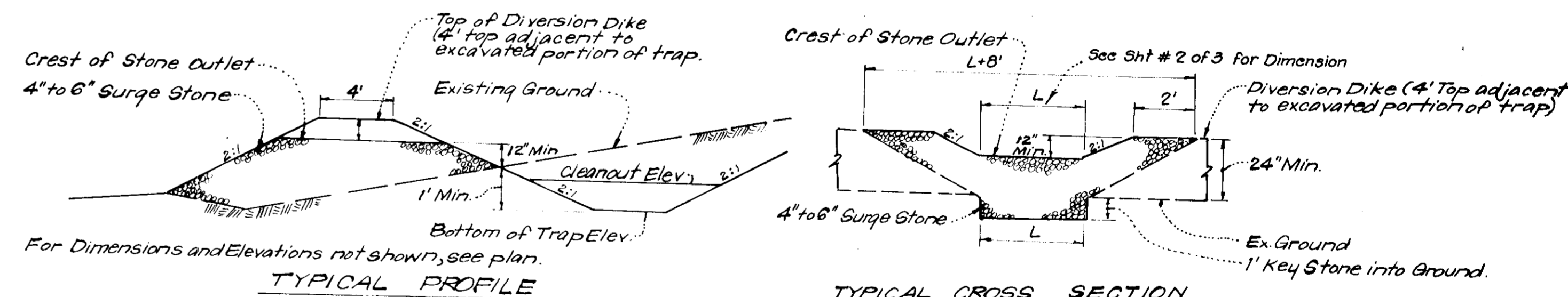
No Scale



SECTION VIEW

STONE CONSTRUCTION ENTRANCE DETAIL (S.C.E.)

No Scale



TYPICAL PROFILE

TYPICAL CROSS SECTION

DETAILS OF STONE FILTER OUTLET (FOR STONE OUTLET SEDIMENT TRAP)

No Scale

**STONE FILTER OUTLET NOTES:**

- Sediment Trap to be cleaned out when sediment reaches a level of  $\frac{1}{2}$  ft. below the Crest of Stone Outlet.\*
  - Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
  - Stone Outlet to be constructed through diversion dike adjacent to excavated portion of Sediment Trap.
- \* See Sht. # 2 of 3 for Cleanout Elevation.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT  
*James B. ...* 12-6-78  
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING  
PLANNING DIRECTOR DATE  
CHIEF DIVISION OF LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,  
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Richard E. ...* 12/1/78  
DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING DATE

Reviewed for HOWARD S.C.D.  
Name  
and meets Technical Requirements  
*C. Wayne Ray* 11-27-78  
Signature Date  
U.S. Soil Conservation Service

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

*Les Fard*  
Approved  
11-27-78  
Date

**DEVELOPER'S CERTIFICATE**

I certify that all development and/or construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

*John Troutman*  
Signature  
12/1/78  
Date  
JOHN TROUTMAN

**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*  
8-17-78  
Date



**CLARK • FINEPROCK & SACKETT**  
ENGINEERS • PLANNERS • SURVEYORS  
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400

DESIGNED J.L.S.	SITE DEVELOPMENT PLAN SEDIMENT & EROSION CONTROL PLAN LOT 5 23 THRU 32 <b>COLUMBIA</b> VILLAGE OF LONGREACH SECTION I 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown
DRAWN J.M.E.		DRAWING 3 of 3
CHECKED J.L.S.		JOB NO.
DATE July, 1978	FOR: TROUTMAN COMPANY Suite 300, Wild Lake Village Green Columbia, Maryland 21044	FILE NO. 1305-SE

SDP-79-27c Also See 1522 X 375 HC

APPROVED  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE 9-8-78