

Note: Use Residential Driveway Entrance, How Co. Std. Dwg. D-34, Pg. 89 except where driveway abuts Modified Comb. Curb & Gutter.
 Note: Materials and Construction shall be in accordance with Ho. Co. Road Constr. Code.

1/2" Preformed Bituminous Expansion Joint Filler
 Class A Concrete
 1/2" Preformed Bituminous Expansion Joint Filler
 Class A Concrete

Modified Combination Curb & Gutter, How Co. Std. Dwg. D-40, Pg. 89

6"x6" #6 Wire Mesh SECTION "A" "A"

PLAN

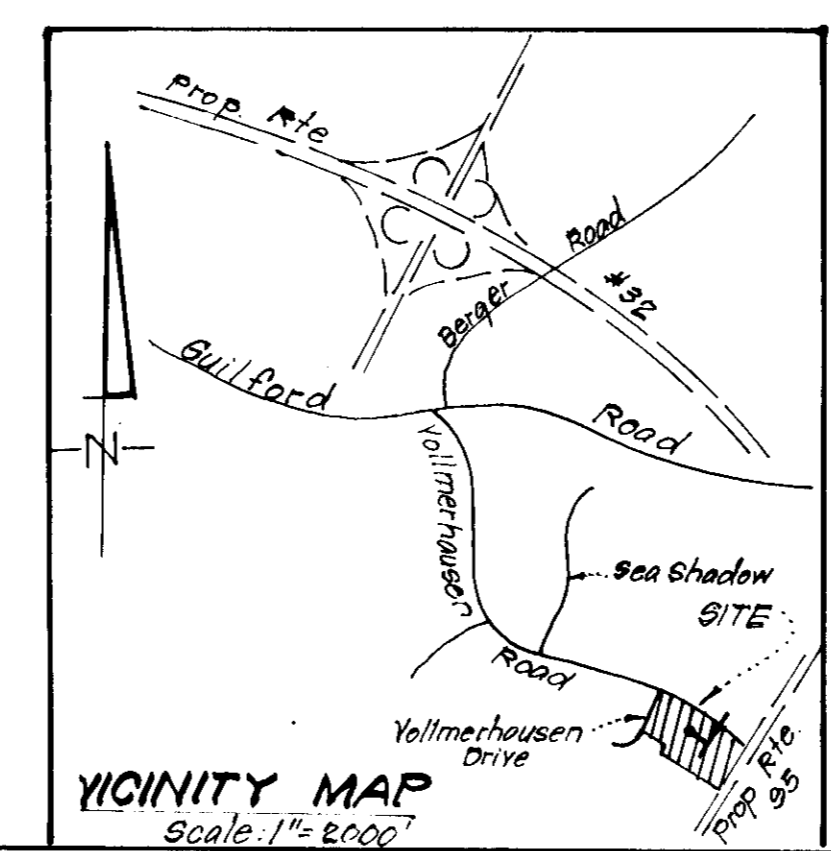
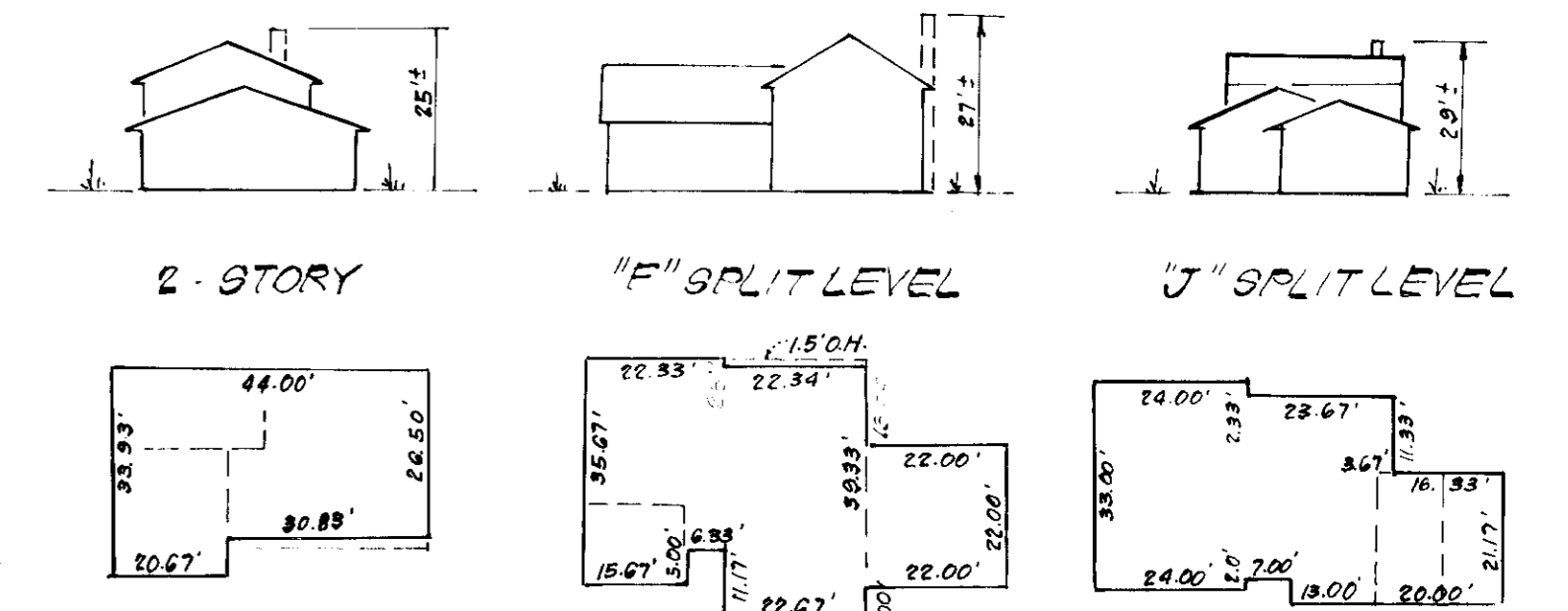
DRIVEWAY ABUTTING MODIFIED COMB. CURB & GUTTER
 No Scale
 VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1
 PLATS 4237 & 4235



HOWARD RESEARCH & DEVELOPMENT CORPORATION
 406/1319

- GENERAL NOTES:**
- The land included in this plan is zoned New Town (S.F.M.D.)
 - The lots shown on this plan are covered by Final Development Plan Phase 169A-Part I Plat No. 205A 162-176, Feb. 8, 1979.
 - All coordinates are based on traverse controls for Columbia established by Mops, Inc., in 1968 by Purdom & Leschke in 1968 which controls were tied to Maryland Bureau of Control Survey monuments and to U.S. Coast & Geodetic Survey monuments in the Columbia area.
 - The area covered in this submission is located on Tax Map # 42.
 - The total area included on this plan is 2.915 Acres.
 - All roadways are public & existing.
 - Any damage to county owned rights of way shall be corrected at the developer's expense.

- LEGEND:**
- Contour Interval 2'±
 - Existing Contour (solid line)
 - Proposed Contour (dashed line)
 - Spot Elevation +708
 - Direction of Drainage (arrow)
 - Exist. Trees to be retained (circle with 'X')



APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE 5-29-79

HOWARD COUNTY, MARYLAND
 DATE 5-29-79

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER [Signature] DATE 7-12-79

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR [Signature] DATE 7-16-79

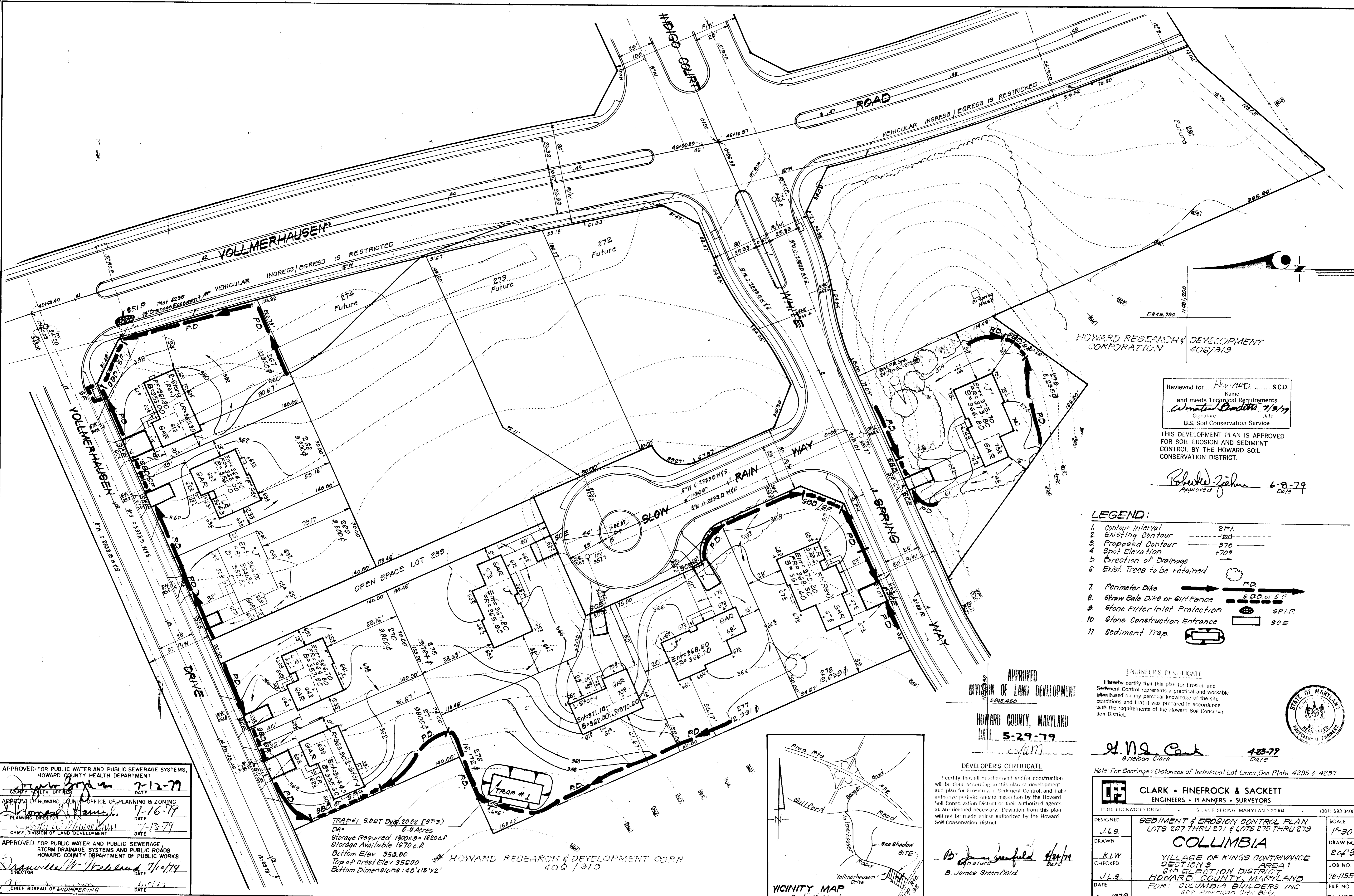
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR [Signature] DATE 7/10/79

CHIEF BUREAU OF ENGINEERING [Signature] DATE 7/10/79

HOWARD RESEARCH & DEVELOPMENT CORP.
 406/1319

Note: For Bearings & Distances of Individual Lot Lines, See Plats 4235 & 4237

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400				
DESIGNED	J.M.E.	SITE DEVELOPMENT PLAN LOTS 267 THRU 271 & LOTS 275 THRU 279 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: COLUMBIA BUILDERS INC. 606 American City Bldg Columbia, Maryland 21044 SDP-79-130c	SCALE	1"=30'
DRAWN	K.L.W.		DRAWING	1043
CHECKED	J.M.E.		JOB NO.	78-1155
DATE	Apr, 1979		FILE NO.	78-1155-X



HOWARD RESEARCH & DEVELOPMENT CORPORATION
406/1319

Reviewed for: Howard S.C.D.
Name
and meets Technical Requirements
Wm. J. Sackett 7/19/79
Signature Date
U.S. Soil Conservation Service

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

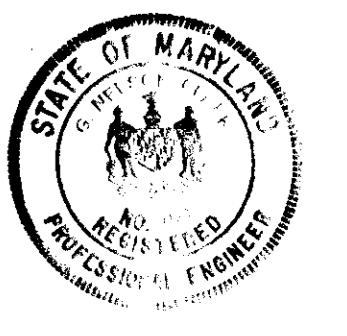
Robert Zehner 6-9-79
Approved Date

LEGEND:

1. Contour Interval $\frac{2FT}{}$
2. Existing Contour $\frac{---$
3. Proposed Contour $\frac{---$
4. Spot Elevation $\frac{+705}{}$
5. Direction of Drainage $\frac{\rightarrow}{}$
6. Exist. Trees to be retained $\frac{\circlearrowleft}{}$
7. Perimeter Dike $\frac{\rightarrow}{}$
8. Straw Bale Dike or Gift Fence $\frac{\rightarrow}{}$
9. Stone Filter Inlet Protection $\frac{\circlearrowleft}{}$
10. Stone Construction Entrance $\frac{\square}{}$
11. Sediment Trap $\frac{\square}{}$

APPROVED
DIVISION OF LAND DEVELOPMENT
EMAS, 450
HOWARD COUNTY, MARYLAND
DATE: 5-29-79
AM

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.



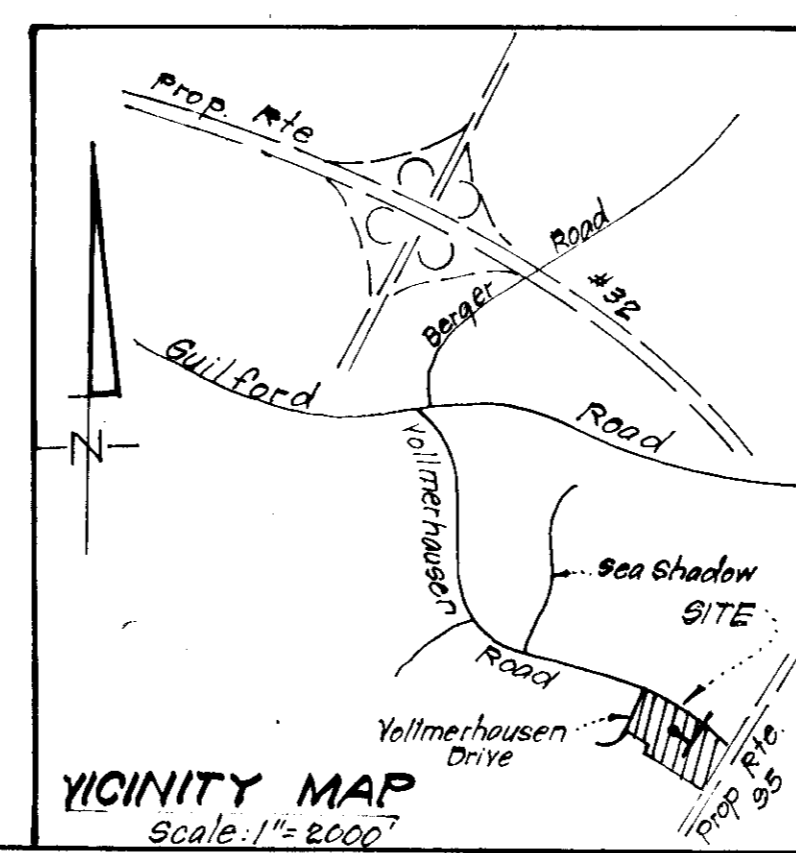
H. M. Clark 1-23-79
Date
H. M. Clark

Note: For Drainage Distances of Individual Lot Lines See Plate 4235 & 4237

CLARK • FINROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED J.L.S.	SEDIMENT & EROSION CONTROL PLAN LOTS 267 THRU 271 & LOTS 275 THRU 279 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: COLUMBIA BUILDERS INC. 606 American City Bldg. Columbia, Maryland 21044 SDP-79-130c	SCALE 1"=30'
DRAWN K.L.W.		DRAWING 2043
CHECKED J.L.S.		JOB NO. 78-1155
DATE Apr, 1979		FILE NO. 78-11559E

DEVELOPER'S CERTIFICATE
I certify that all development and construction will be done according to this plan of development and plan for Erosion and Sediment Control, and I also authorize periodic onsite 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.

B. James Greenfield
Signature
B. James Greenfield
Date



TRAP #1 9.097 DIA. 20.02 (ST-3)
DA = 0.9 Acres
Storage Required 1800 x 9 = 1620 c.f.
Storage Available 1670 c.f.
Bottom Elev. 350.00
Top of P. Crest Elev. 356.00
Bottom Dimensions: 40' x 18' x 2'

HOWARD RESEARCH & DEVELOPMENT CORP
406/1319

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
[Signature] 7-12-79
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 7-16-79
PLANNING DIRECTOR DATE

[Signature] 7-13-79
CHIEF DIVISION OF LAND DEVELOPMENT DATE

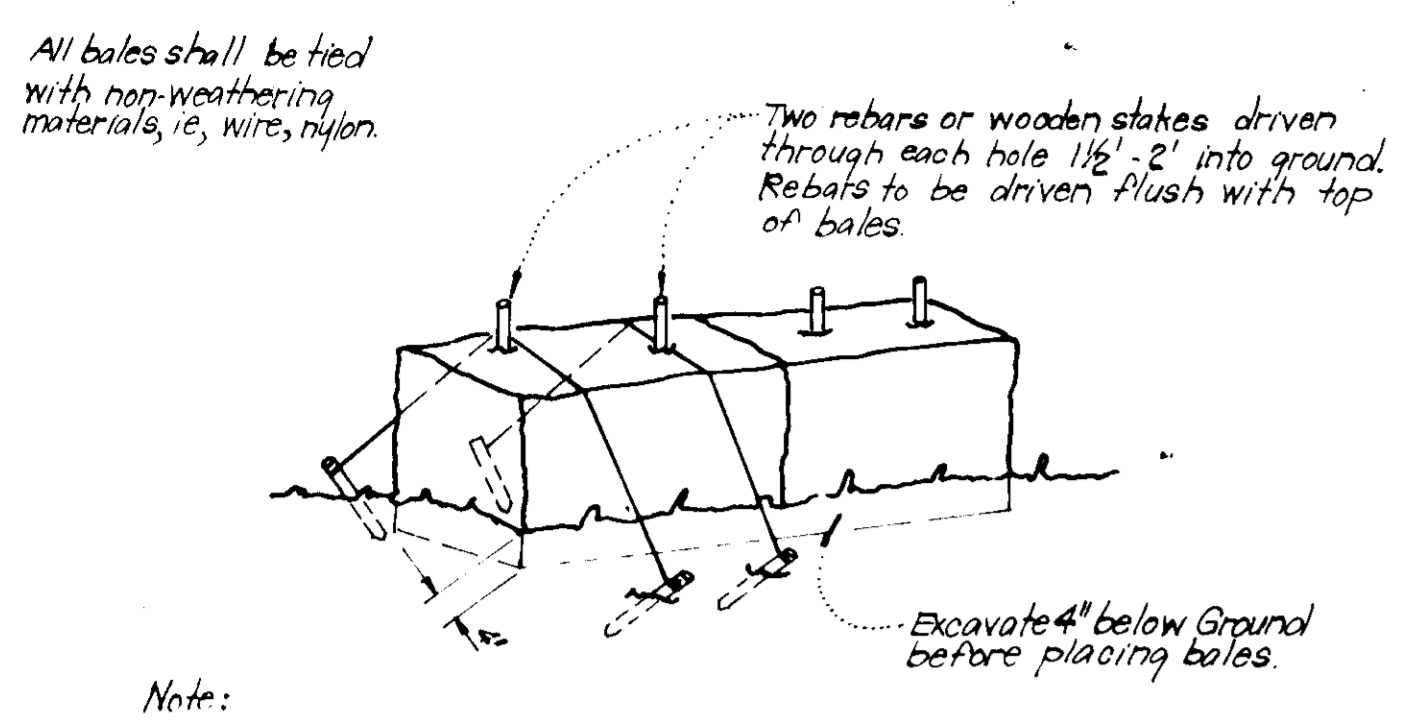
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 7/10/79
DIRECTOR DATE

[Signature]
CHIEF BUREAU OF ENGINEERING DATE

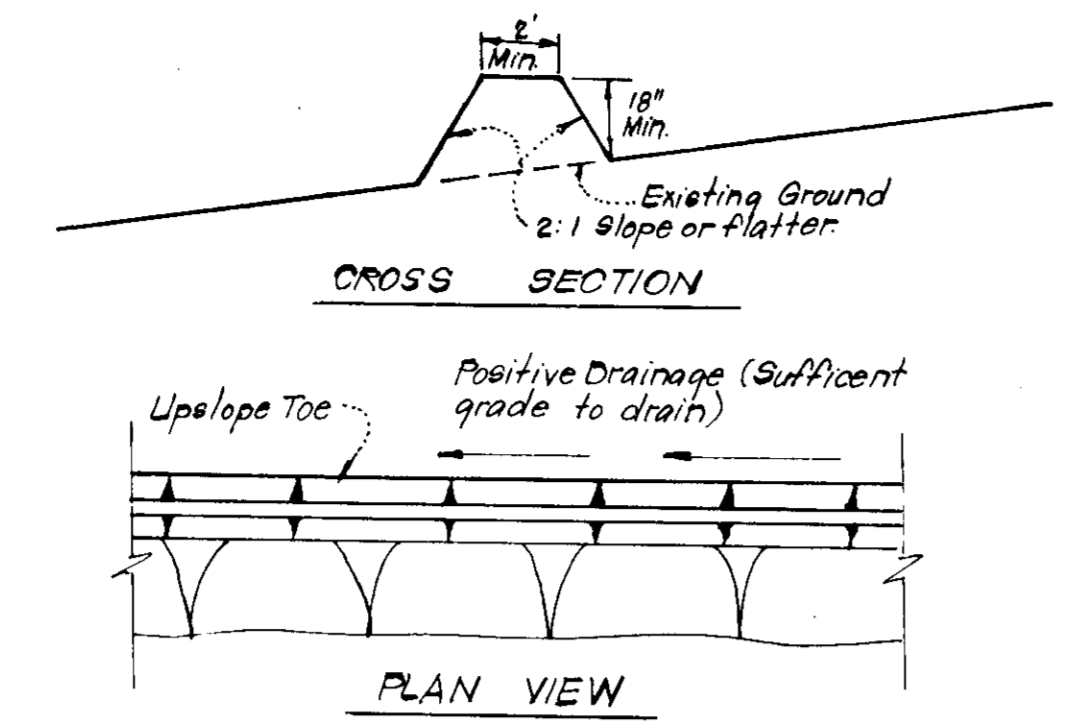
GENERAL NOTES

- 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 #6 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 hrs 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 5 lbs/1000 s.f. Mixture - 40% Kentucky Blue, 20% Chewing Fescue, 20% Kentucky 31 and 20% annual rye.
 - Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 s.f. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 46 lbs/1000 s.f.
 - Mulch - Weed free grain straw applied at a rate of 46 lbs/1000 s.f. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder, etc.
 - All Seed used shall be Maryland State Certified.
- 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.
- It will be the developers responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- 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.
- If houses are to be constructed on an "As-Sold" basis at random, Single Lot Sediment Control, as shown on this sheet, shall be implemented.
- Total Amount of Straw Bales or Silt Fence shown = 230 LF
- SITE ANALYSIS:

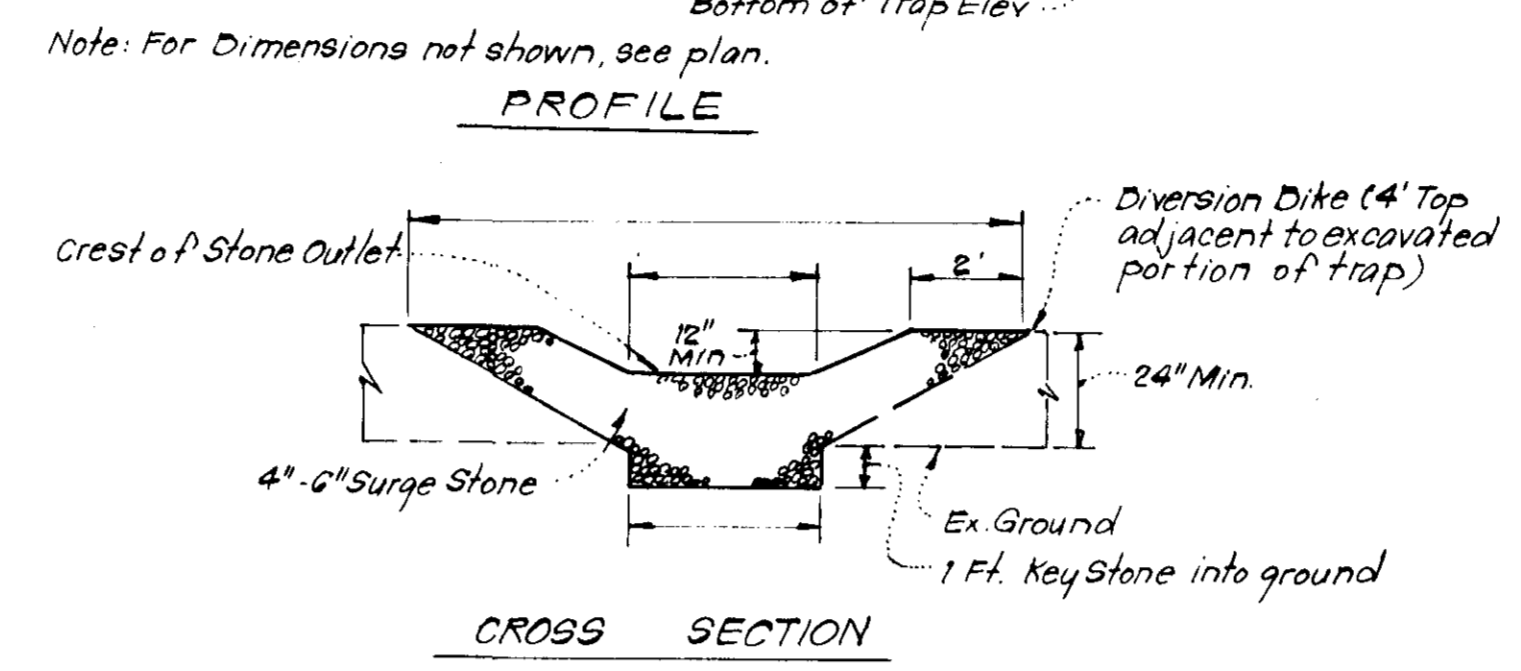
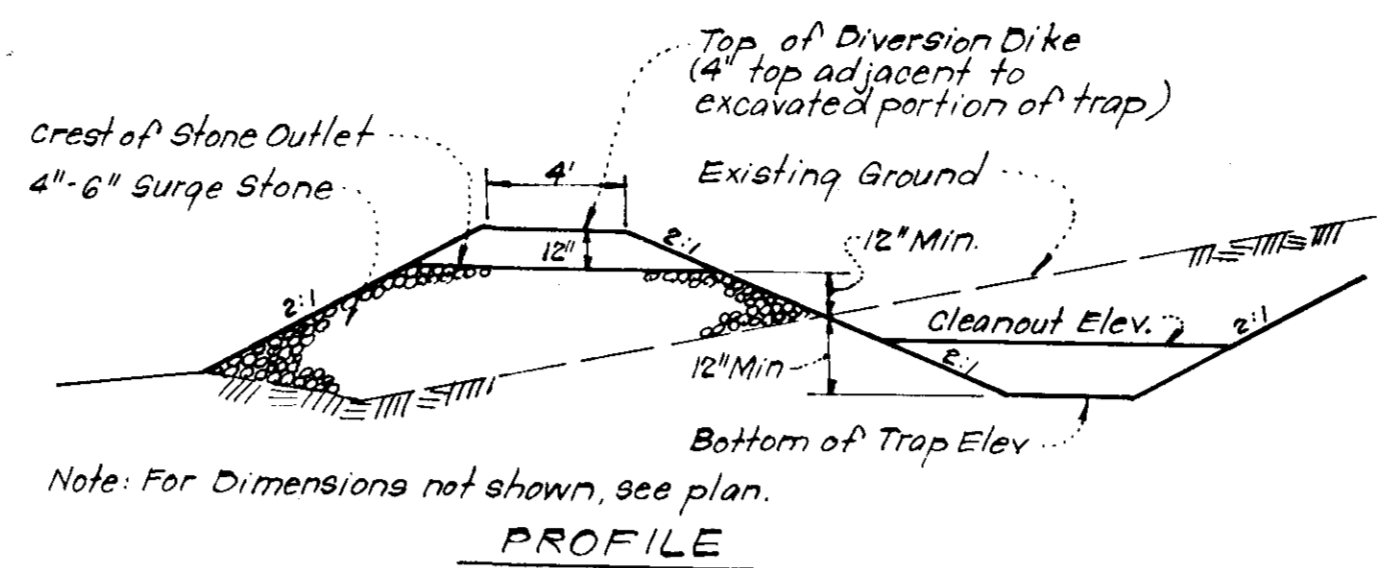
A. Total Area	2.915	Acres
B. Area to be Roofed	0.421	Acres
C. Area to be Paved	0.156	Acres
D. Area to be Seeded	1.630	Acres
E. Area Undisturbed	0.648	Acres
- CONSTRUCTION SEQUENCE:
 - Install Sediment & Erosion Control Devices and Stabilize Diversion Dikes.
 - Excavate for Foundations and Rough Grade.
 - Erect Structures, Driveways and Sidewalks.
 - Final Grade and Stabilize in accordance with note #6.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.



TYPICAL STRAW BALE DIKE DETAIL (S.B.D.)
No Scale

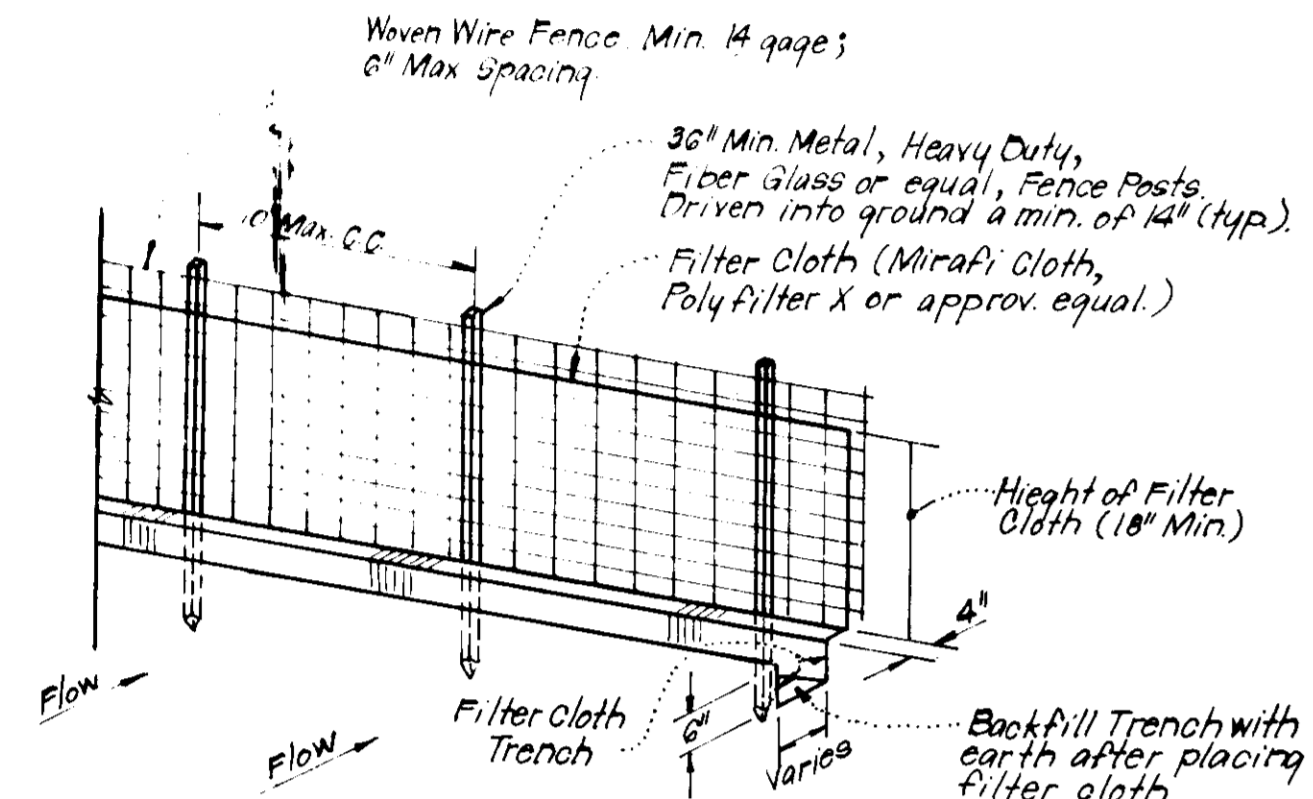


TYPICAL PERIMETER DIKE DETAIL (P.D.)
No Scale



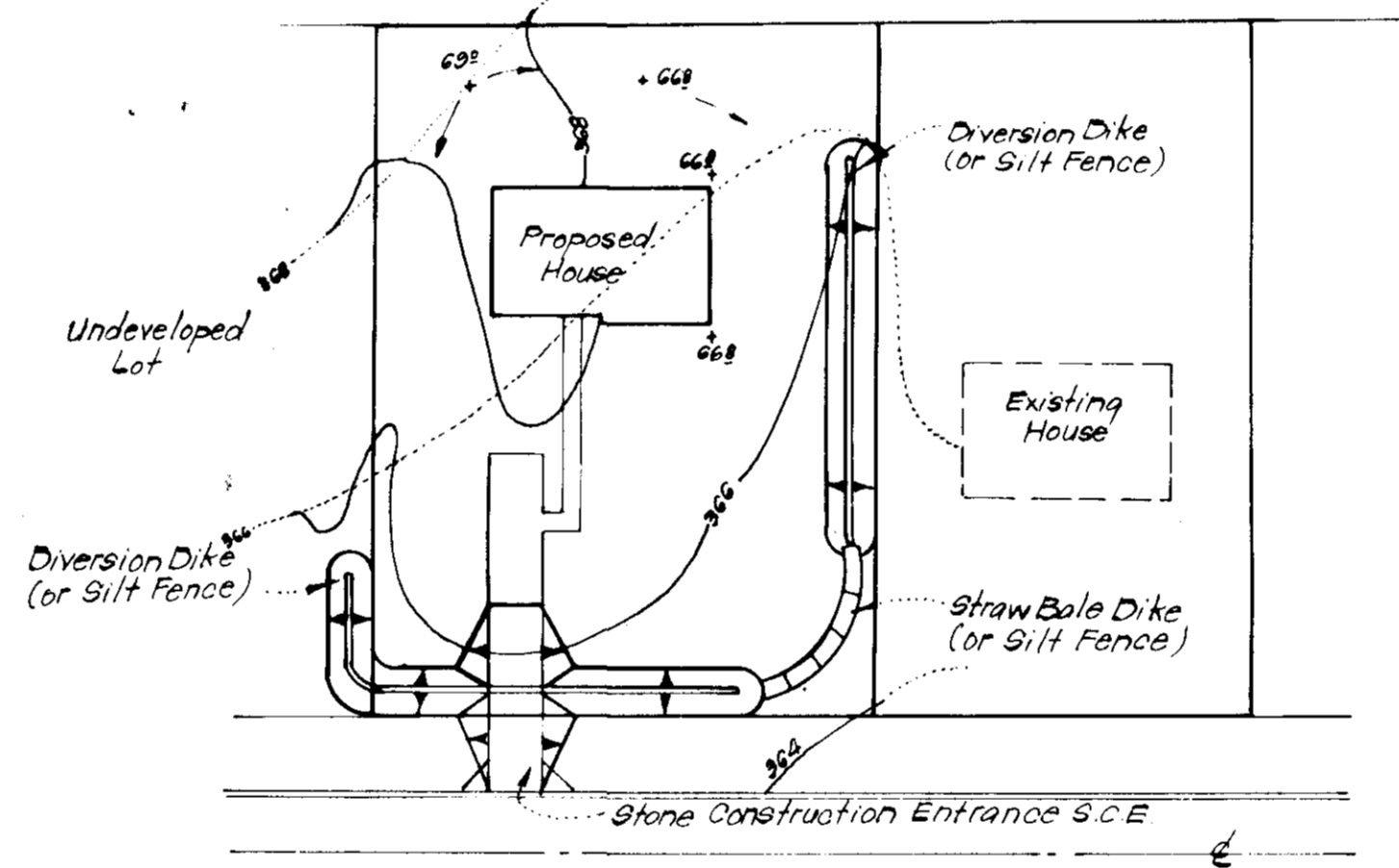
- Notes:
- Sediment Trap to be cleaned out when sediment reaches a level of 1 ft. below crest of stone outlet.
 - Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
 - Stone Outlet to be constructed through diversion dike adjacent to excavated portion of sediment trap.

DETAILS OF STONE FILTER OUTLET (FOR STONE OUTLET SEDIMENT TRAP)
No Scale

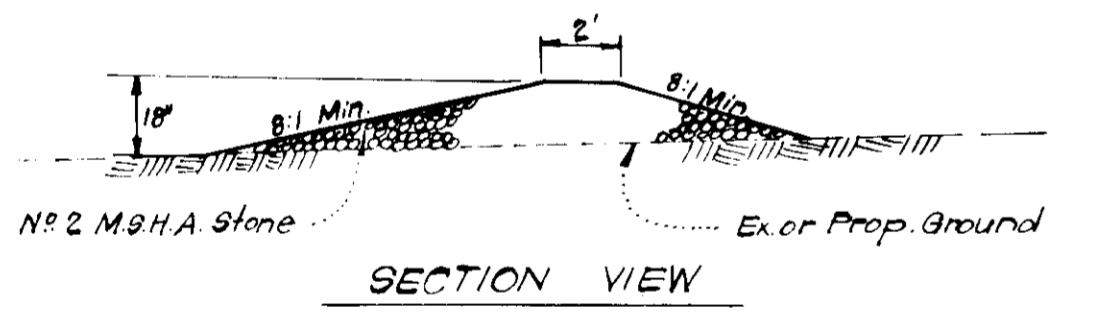


- Notes:
- Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
 - Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24 inches x 24 inches.

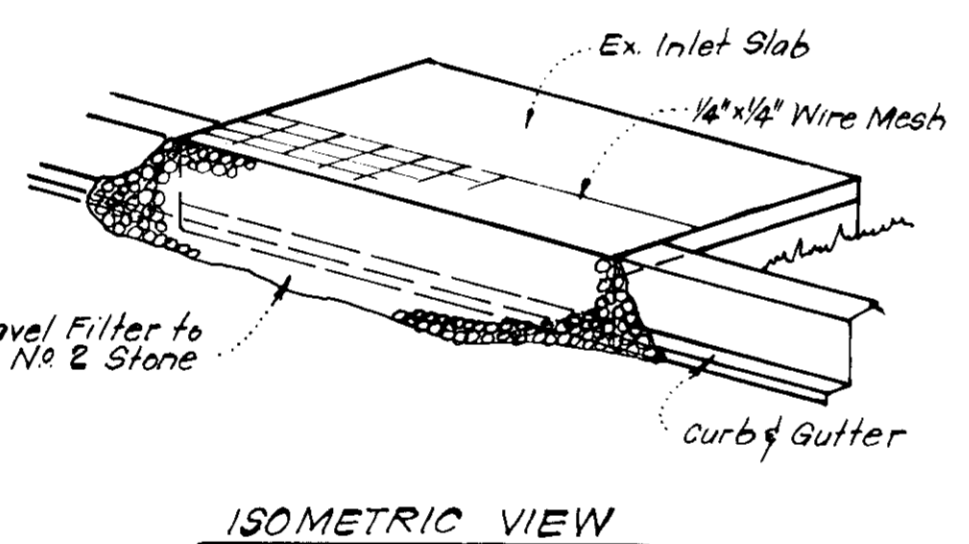
TYPICAL SILT FENCE DETAIL (S.F.)
No Scale



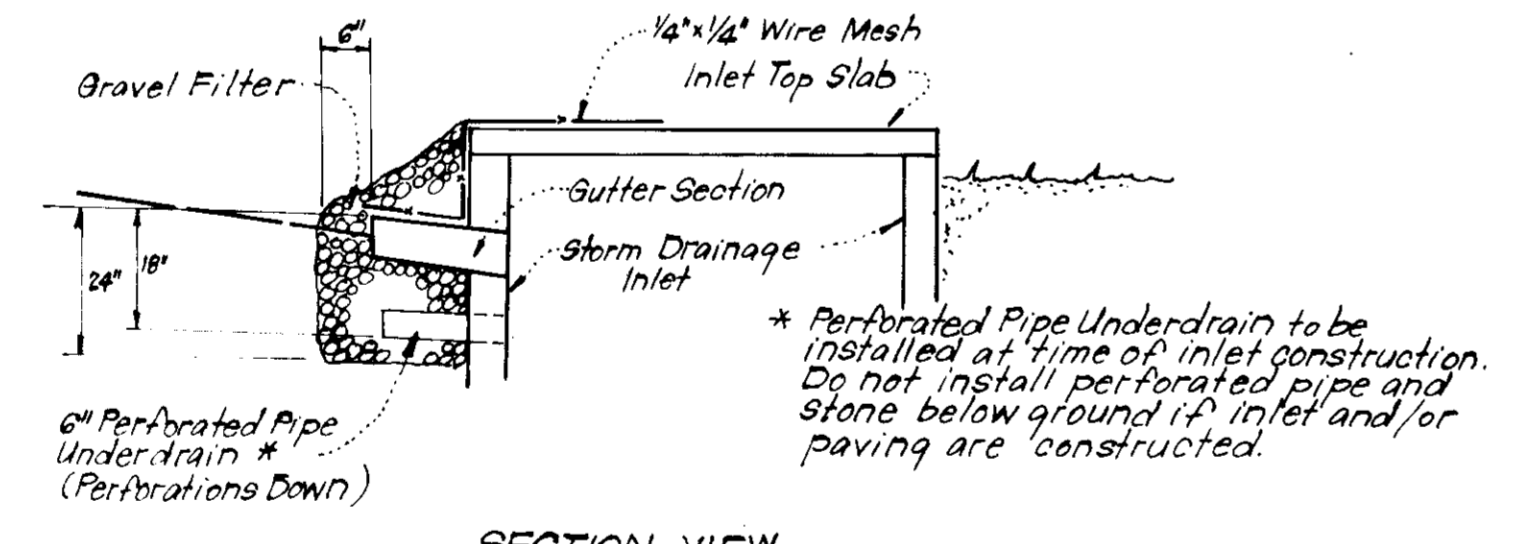
TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN
No Scale



STONE CONSTRUCTION ENTRANCE DETAIL (S.C.E.)
No Scale



ISOMETRIC VIEW



STONE FILTER INLET PROTECTION (S.F.I.P.)
No Scale

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *James G. ...* DATE: 7-12-79
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: *James G. ...* DATE: 7-16-79
 CHIEF DIVISION OF LAND DEVELOPMENT: *Robert W. Ziehm* DATE: 7-13-79
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *Rowville W. ...* DATE: 7/14/79
 CHIEF BUREAU OF ENGINEERING: *...* DATE: 7-13-79

Reviewed for Howard S.C.D. Name and meets Technical Requirements
Wendell Bonditta 6/15/79
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT

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.

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.

Robert W. Ziehm 6-8-79 Approved Date
B. James Greenfield 4/24/79 Signature Date
J. Nelson Clark 4-23-79 Signature Date



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

DESIGNED: J.L.S.	SEDIMENT & EROSION CONTROL PLAN LOTS 267 THRU 271 & LOTS 275-279	SCALE: As Shown
DRAWN: K.L.W.		DRAWING: 3013
CHECKED: J.L.S.	COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.:
DATE: Apr, 1979		FILE NO.: 78-1659E

FOR: COLUMBIA BUILDER'S, INC.
 606 American City Bldg
 Columbia, Maryland 21044
 SDP-79-130c

APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE: 5-29-79
J.W. ...