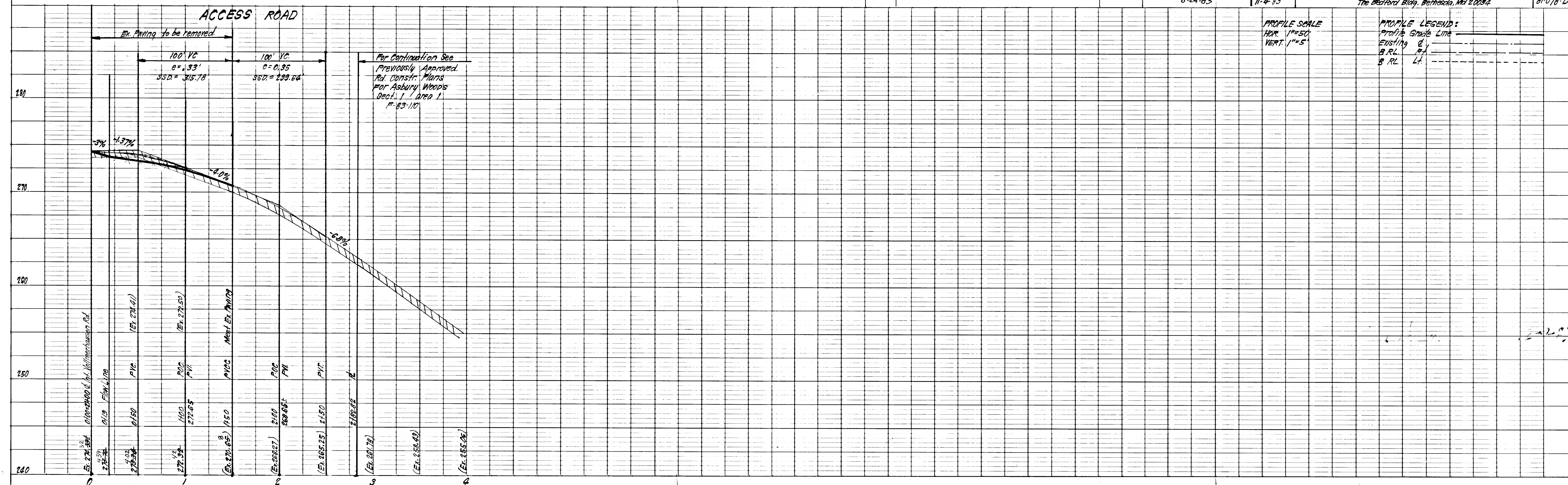


**Q CURVE DATA**  
 P.C. 15175.82 to P.T. 24163.60  
 R=2064.79  
 Δ=174.55°  
 A=287.78'  
 T=447.48'  
 CHD=284.24'

**Q CURVE DATA**  
 P.C. 14618.84 to P.T. 2182.82  
 R=1637.02  
 Δ=104.14°  
 A=120.38'  
 T=20.52'  
 CHD=120.96'

**PLAN**  
 SCALE: 1"=50'

No.	Revision	Date
1	Added driveway entrance detail.	11-1-84

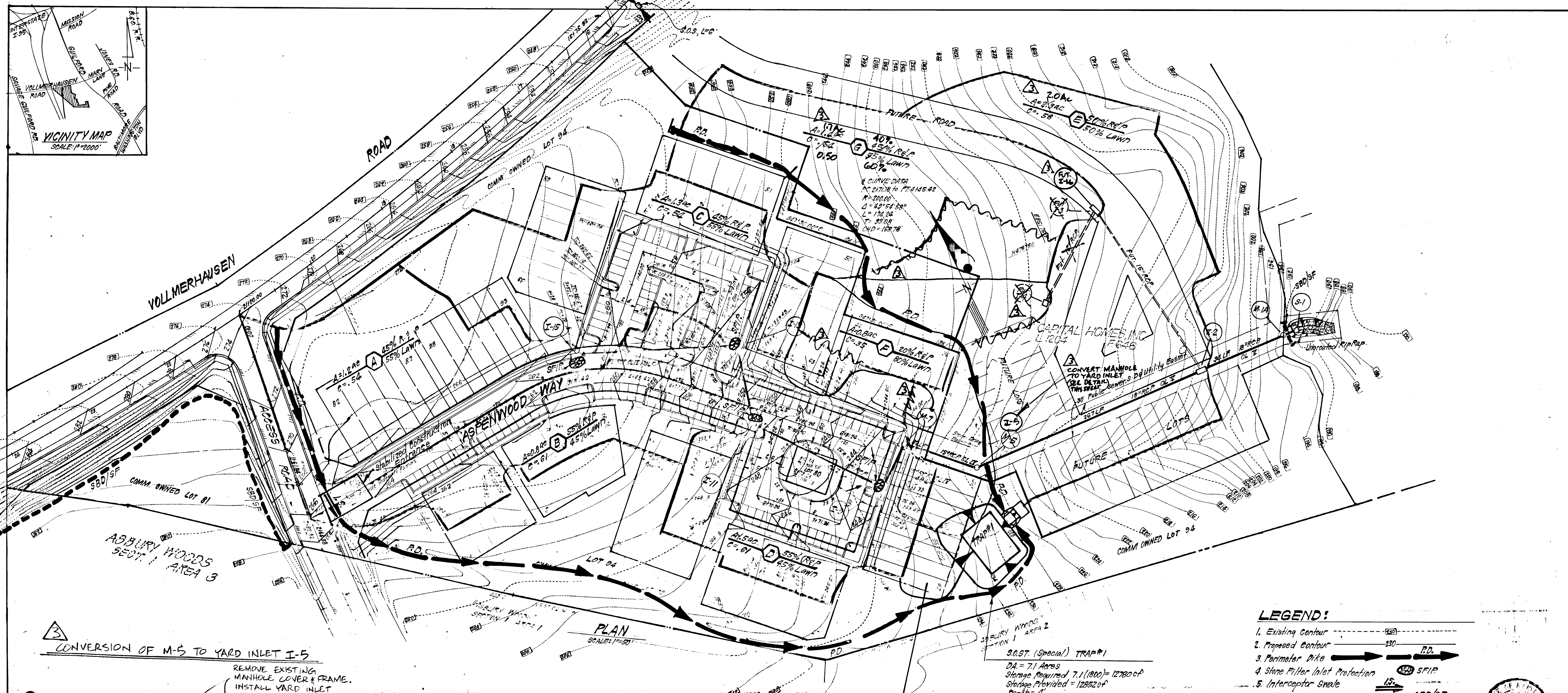
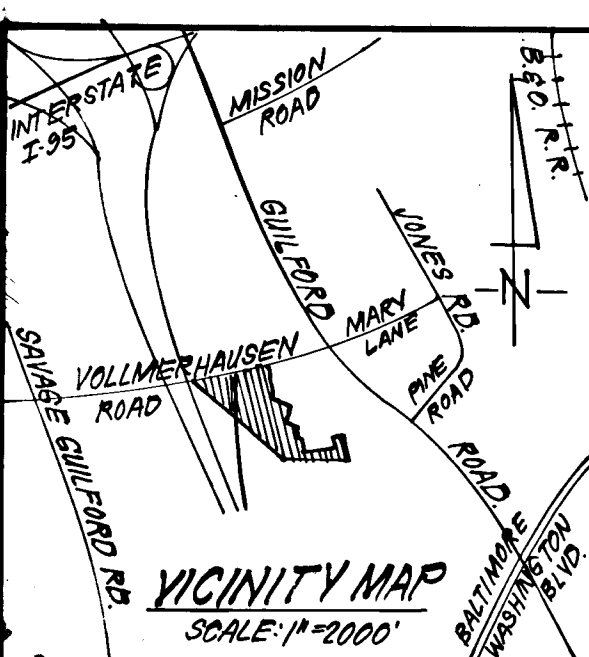


**PROFILE SCALE**  
 HOR. 1"=50'  
 VERT. 1"=5'

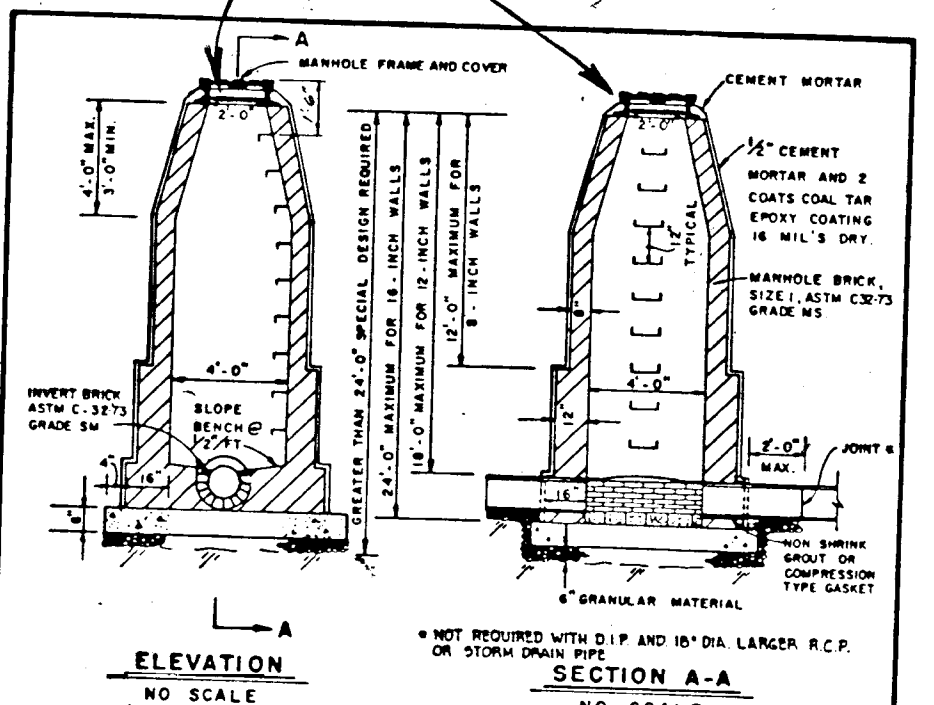
**PROFILE LEGEND:**  
 Profile Grade Line  
 Existing G.L.  
 B.R.L.  
 B.R.L.

#1025





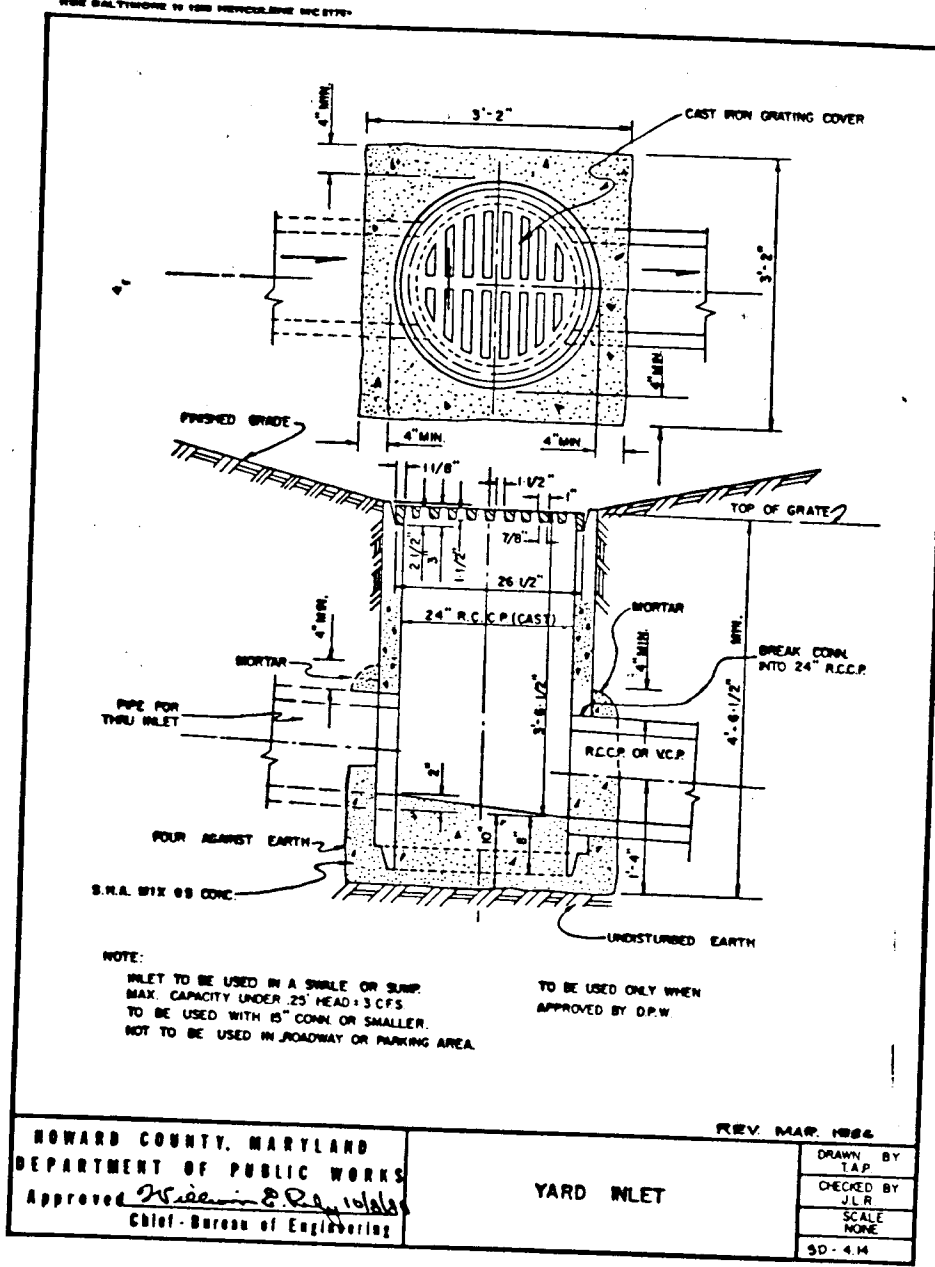
**CONVERSION OF M-5 TO YARD INLET I-5**  
 REMOVE EXISTING MANHOLE COVER & FRAME.  
 INSTALL YARD INLET GRATE PER HOW. CO. STD. SD=4.14



**GENERAL NOTES APPLICABLE TO ALL BRICK MANHOLES**

- MANHOLE BASE SHALL BE 8" INCH CAST IN PLACE CONCRETE SLAB WITH 3" EXTENDED ALL OTHER SLABS SHALL BE WITH NO. 3 ANCHORED.
- MANHOLE BASE SHALL BE SET ON 4" INCH GRANULAR MATERIAL ON FIRM SUBGRADE.
- ELEVATION BELOW PIPE SHALL BE BACKFILLED WITH GRANULAR MATERIAL 1/2" OF WAY TO TOP OF PIPE.
- CONNECTION BETWEEN MANHOLE WALL AND SEWER SHALL BE NON-BONDING JOINT.
- MANHOLE CHAMBERS SHALL BE FORMED TO PROVIDE A SMOOTH TRANSITION BETWEEN PIPES EXCEPT BEHIND TO FULL HEIGHT OF PIPE OPENING AND FORM USING GRADE 50 STEEN BRICK WITH C-3873 SIZE NO. 1.
- MANHOLE WALL THICKNESS SHALL BE GREATER THAN 24" OF SPECIAL DESIGN.

STANDARD SANITARY SEWER DETAILS  
 4" O.D. BRICK MANHOLE FOR USE WITH PIPES 24" AND SMALLER

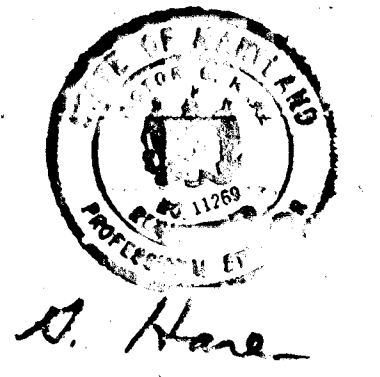


Reviewed for Howard Co. S.C.D.  
 and meets technical requirements  
James M. [Signature] 12-7-83  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

**A = 0.7 AC** **23% R&P**  
**L = 0.40** **77% LAWN**

**S.O.S.T. (Special) TRAP #1**  
 DA = 7.1 Acres  
 Storage Required 7.1(1800) = 12780 cF  
 Storage Provided = 12920 cF  
 Depth = 4'  
 Top of Stone Crest = 228.0  
 Bottom Elevation = 224.0  
 Bottom Dimensions = 55' x 45'

- LEGEND:**
- Existing Contour
  - Proposed Contour
  - Perimeter Dike
  - Stone Filter Inlet Protection
  - Interceptor Swale
  - Shank Bale Dike or Silt Fence



DATE	REVISION
2-15-84	Revised Structure Number from S-5 to M-5.
11-1-84	Revised Parting Base, Sidewalk & Paving for resubdivided lots 67-78 which are on Lots 82 & 93.
2-19-92	REVISE DRAINAGE AREAS & SHOW AS-BUILT SYSTEM AT I-16

APPROVED: Department of Public Works  
James E. [Signature] 12-9-83  
 Chief, Bureau of Engineering  
 APPROVED: Howard County Office of Planning & Zoning  
John W. [Signature] 12-7-83  
 Chief, Division of Land Development & Zoning Administration

**CLARK, FINECROCK & SACKETT**  
 ENGINEERS • PLANNERS • SURVEYORS  
 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • 301 593-3400

DESIGNED	JLS	SCALE	1"=50'
DRAWN	KIW	SHEET	4 OF 6
CHECKED	JLS	JOB NO.	81-078
DATE	11-4-83	PROJECT	SECTION 1 AREA 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR CAPITAL HOMES, INC. 6500 Rock Spring Dr. Suite 200 The Bedford Blg. Bethesda Md 20834

**DEVELOPER/BUILDER'S CERTIFICATE**  
 "I/We 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 periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."  
Brandon R. [Signature] 8-31-83  
 Signature of Developer/Builder Date

**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 8-23-83  
 Date

#1025  
 1025

**GENERAL NOTES**

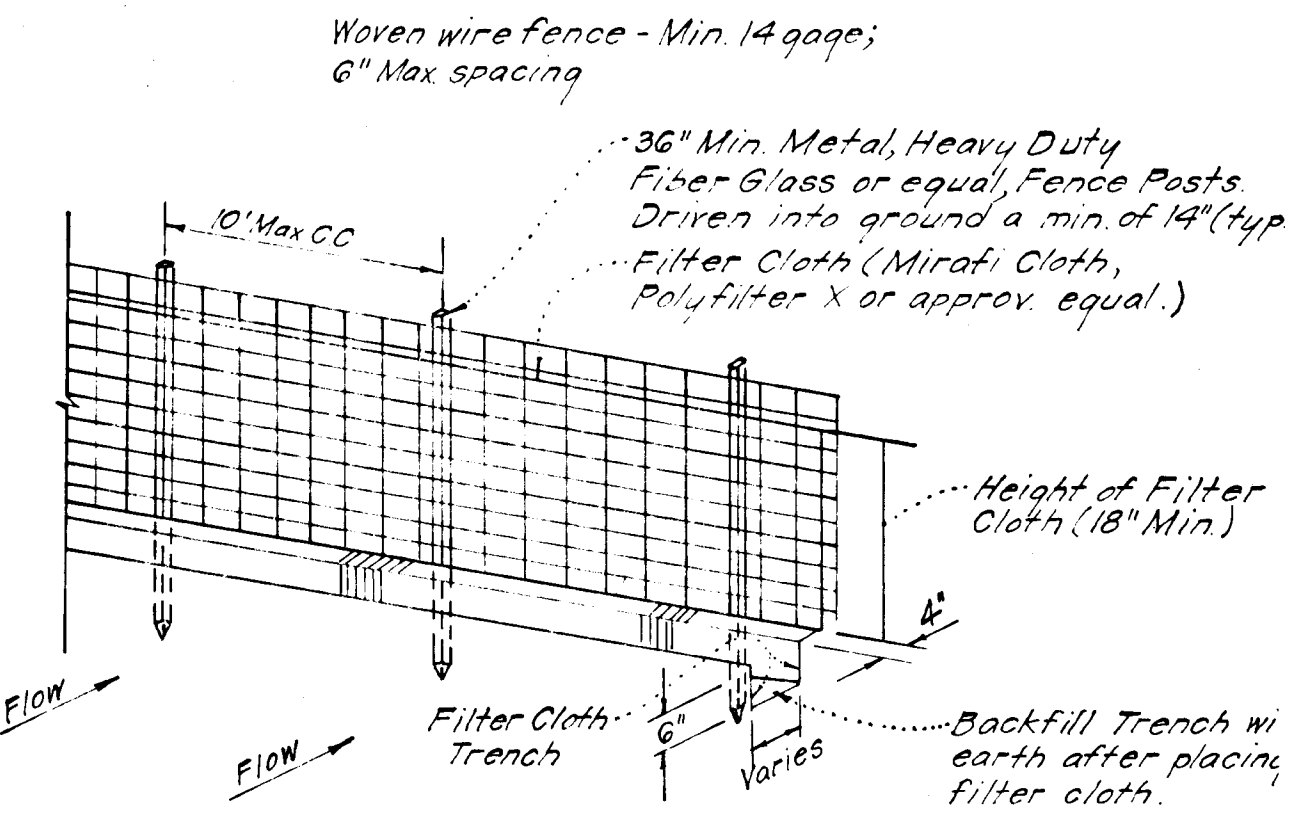
All bales shall be tied with non-weathering materials, i.e. wire, nylon.

Two rebars or wooden stakes driven through each hole 1 1/2'-2' into ground. Rebars to be driven flush with top of bales.

Excavated 4" below ground before placing bales.

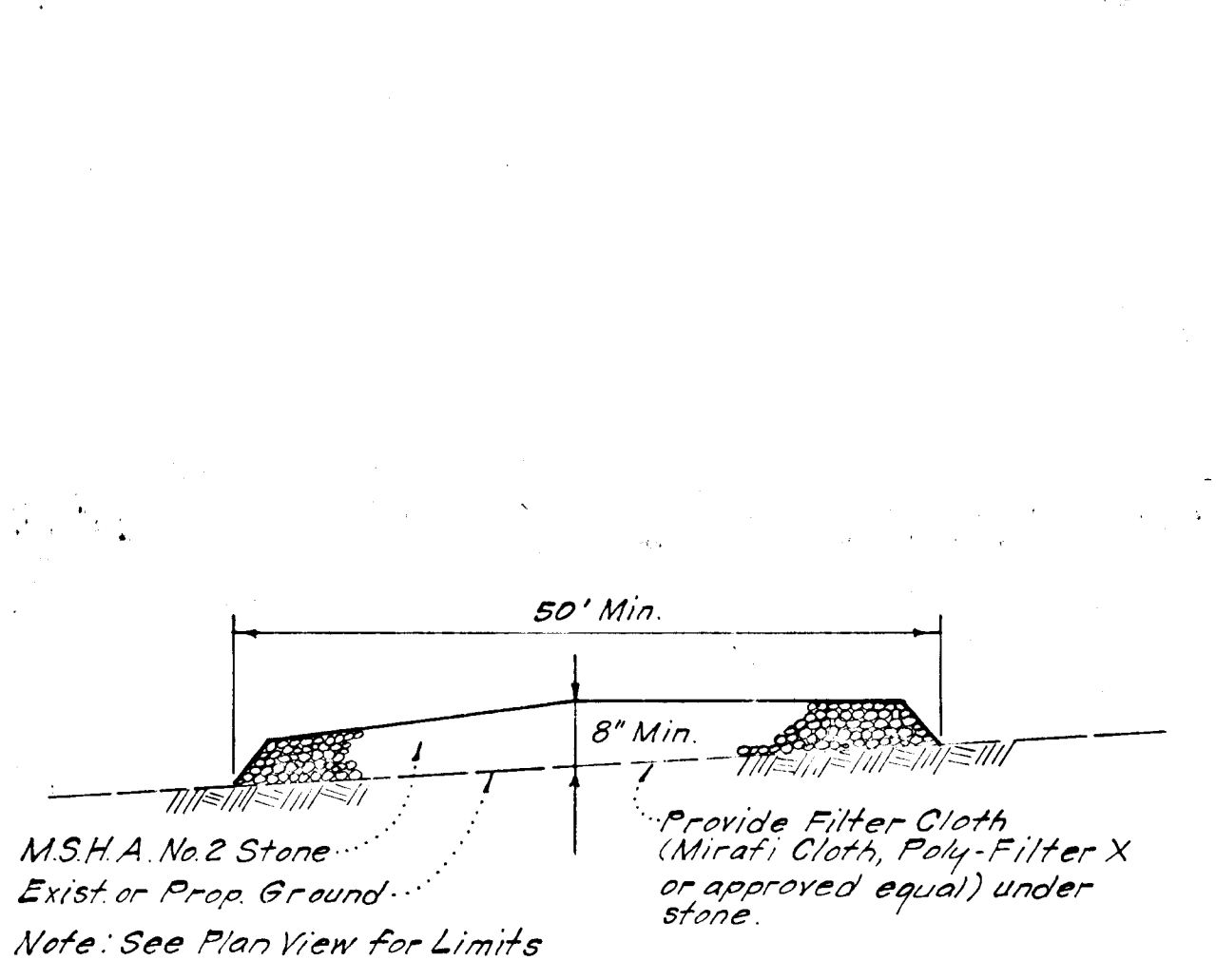
Note:  
1. In lieu of the use of rebars each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above.)

**STRAW BALE DIKE DETAIL (S.B.D.)**  
No SCALE

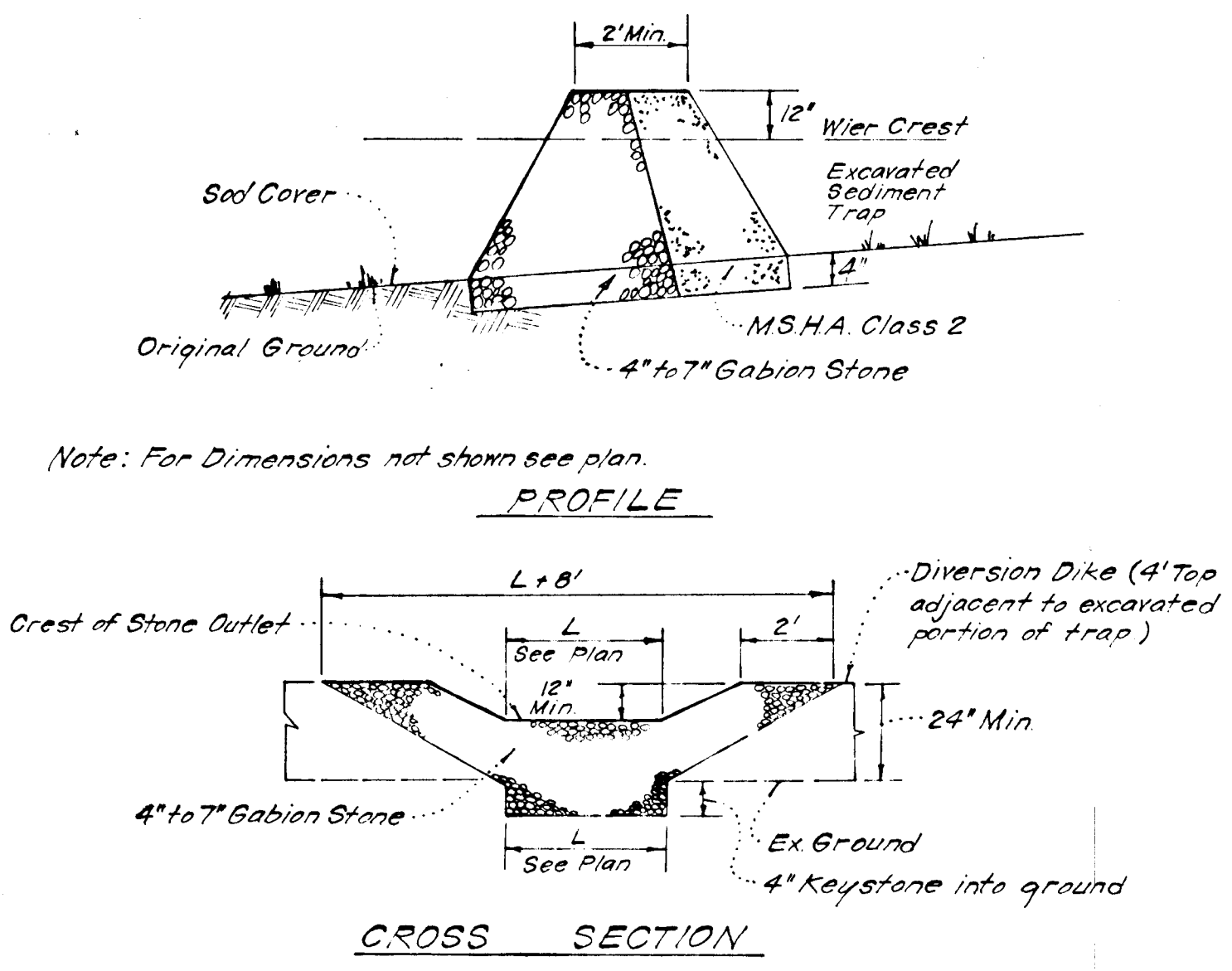
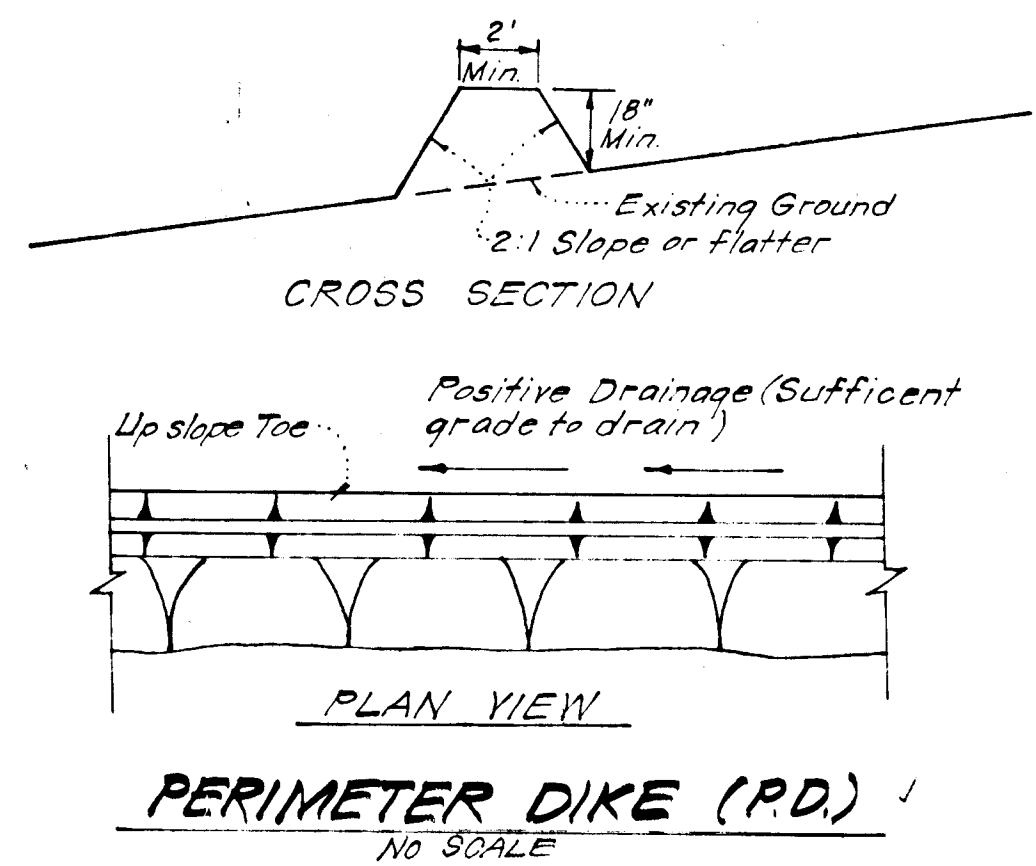


Notes:  
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.  
2. Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24"x24".

**SILT FENCE DETAIL (S.F.)**  
No SCALE

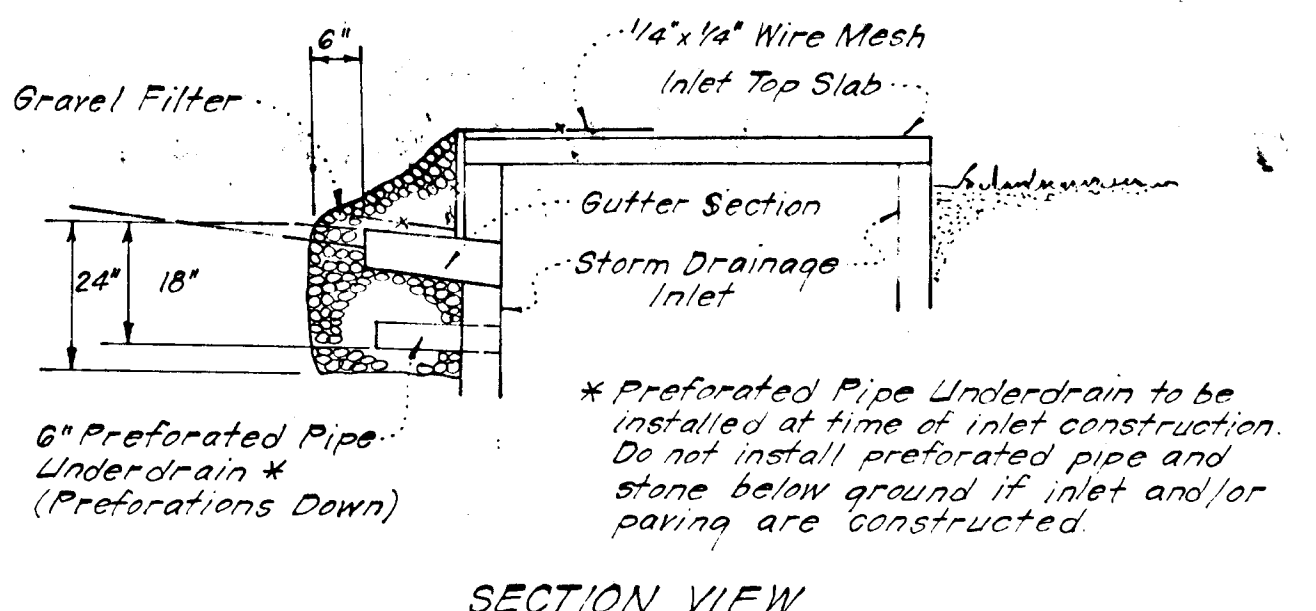
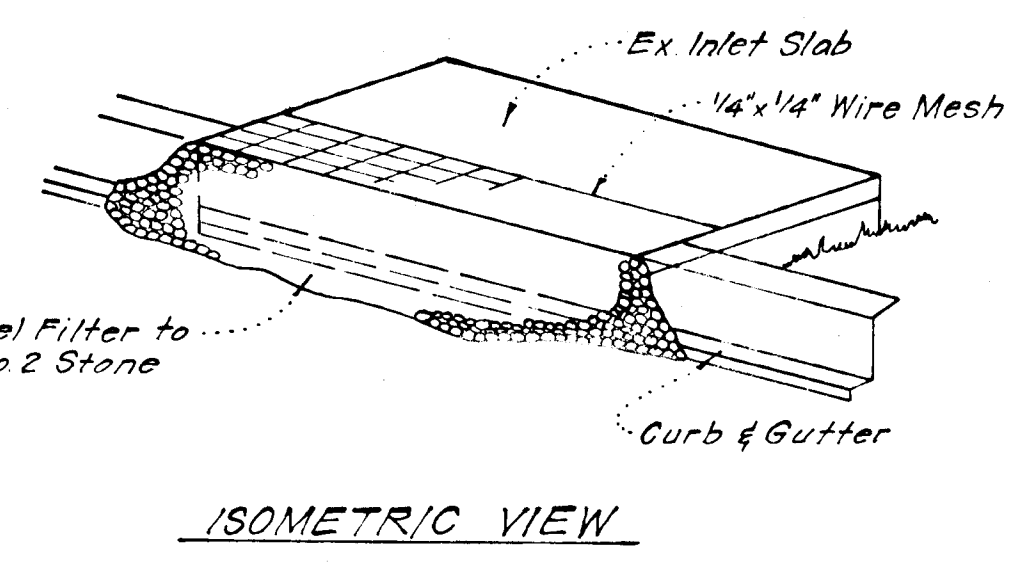


**STABILIZED CONSTRUCTION ENTRANCE**  
No SCALE

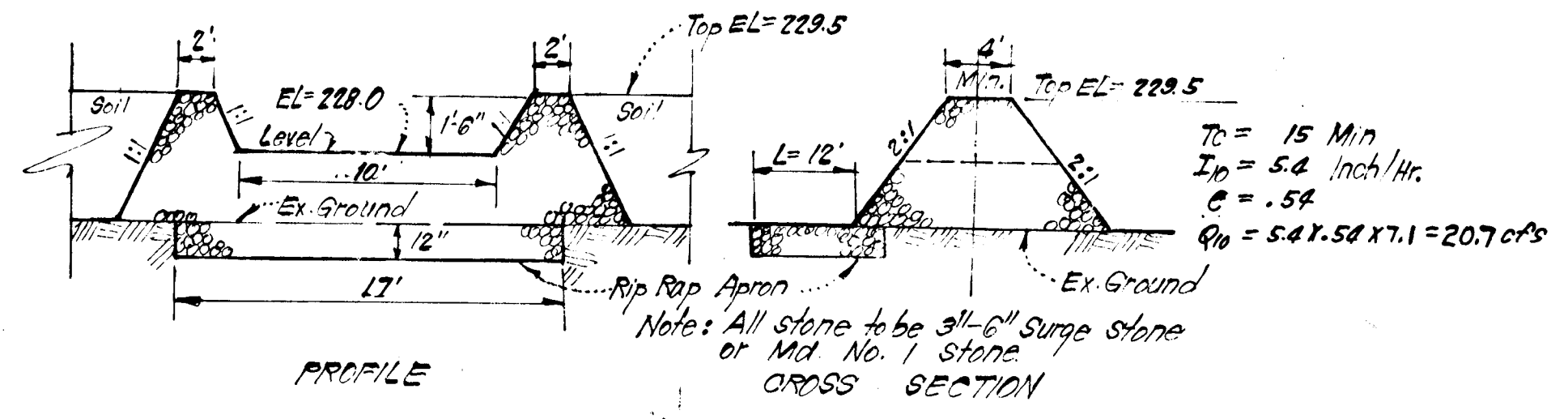
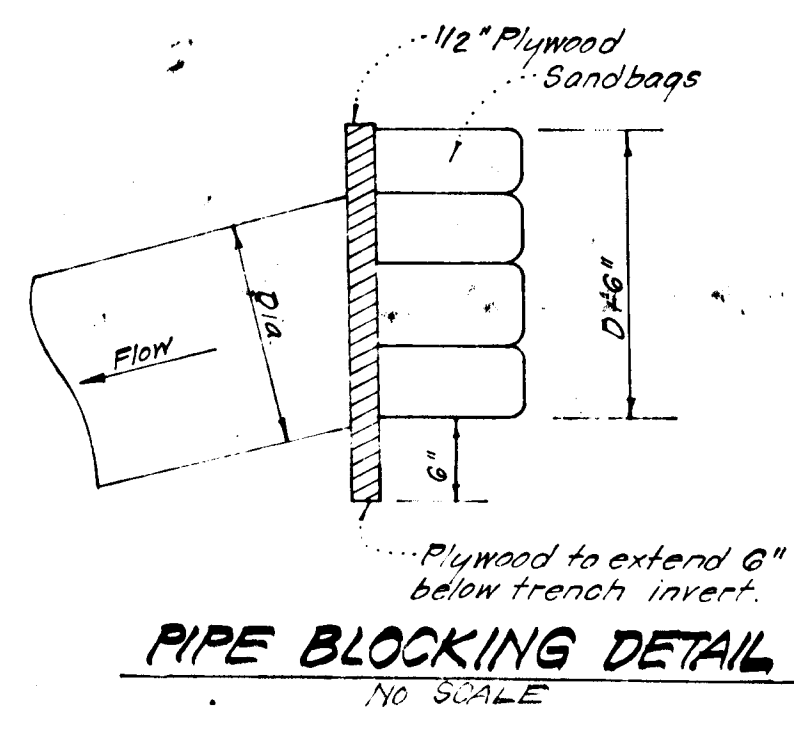
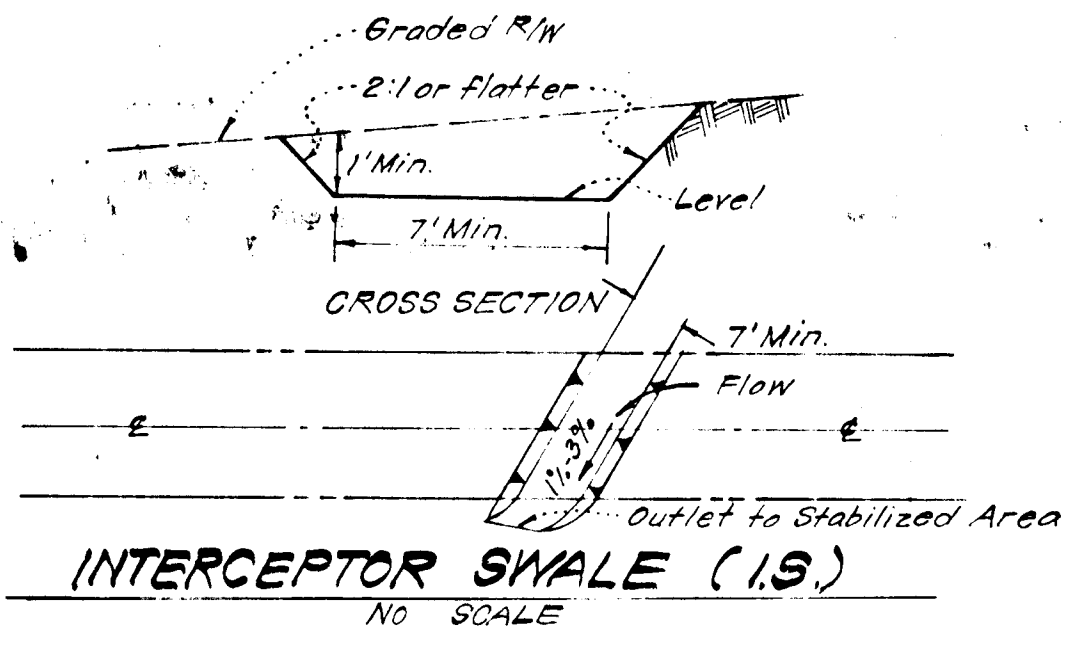


Notes:  
1. Sediment Trap to be cleaned out when sediment reaches a level of 1ft. below crest of stone outlet.  
2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.  
3. Stone Outlet to be constructed through diversion dike adjacent to excavated.

**DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP**  
No SCALE



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



**SPECIAL STONE OUTLET STRUCTURE DETAIL (S.O.S.T.)**  
No SCALE

- 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 14 lbs/1000 sf.
- 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 disturbed area to be stabilized in accordance with the following Specifications:  
A. Seed - certified 85% germination applied at the rate of 3lbs/1000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.  
B. Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 90 lbs/1000 sf.  
C. Mulch - Weed Free grain straw applied at a rate of 70-90 lbs/1000 sf. Mulch shall be secured to the ground by any approved method i.e.; asphalt tack, chemical binder etc.  
D. All Sod 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.
- 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.
- All pipes to be blocked at the end of each day. See detail this sheet.
- Total Amount of Straw Bales or Silt Fence shown = 480 L.F.
- SITE ANALYSIS:  
A. Total Area: 9.754 Acres  
B. Area to be Roofed: None Acres  
C. Area to be Paved: 1.550 Acres  
D. Area to be Seeded: 2.400 Acres  
E. Area Undisturbed: 5.804 Acres
- CONSTRUCTION SEQUENCE:  
A. Install Sediment & Erosion Control Measures  
B. Clear & Rough Grade Site  
C. Construct storm Drainage & Utilities  
D. Fine grade & construct paving, sidewalks, etc.  
E. Stabilize all other disturbed areas onsite in accordance with Specs and Specs.  
F. Remove sediment & erosion control measures after all areas draining to them have been stabilized.

"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 shall have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and before beginning the project. I also authorize periodic on site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

*Robert R. Palmer*  
Signature of Developer/Builder

8-31-83  
Date

Approval for: **HOWARD** B.C.D.  
Name  
and meets Technical Requirements  
*John W. Murchman* 12-7-83  
Signature Date  
U.S. Soil Conservation Service

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

*John W. Murchman* 12-7-83  
Approved Date



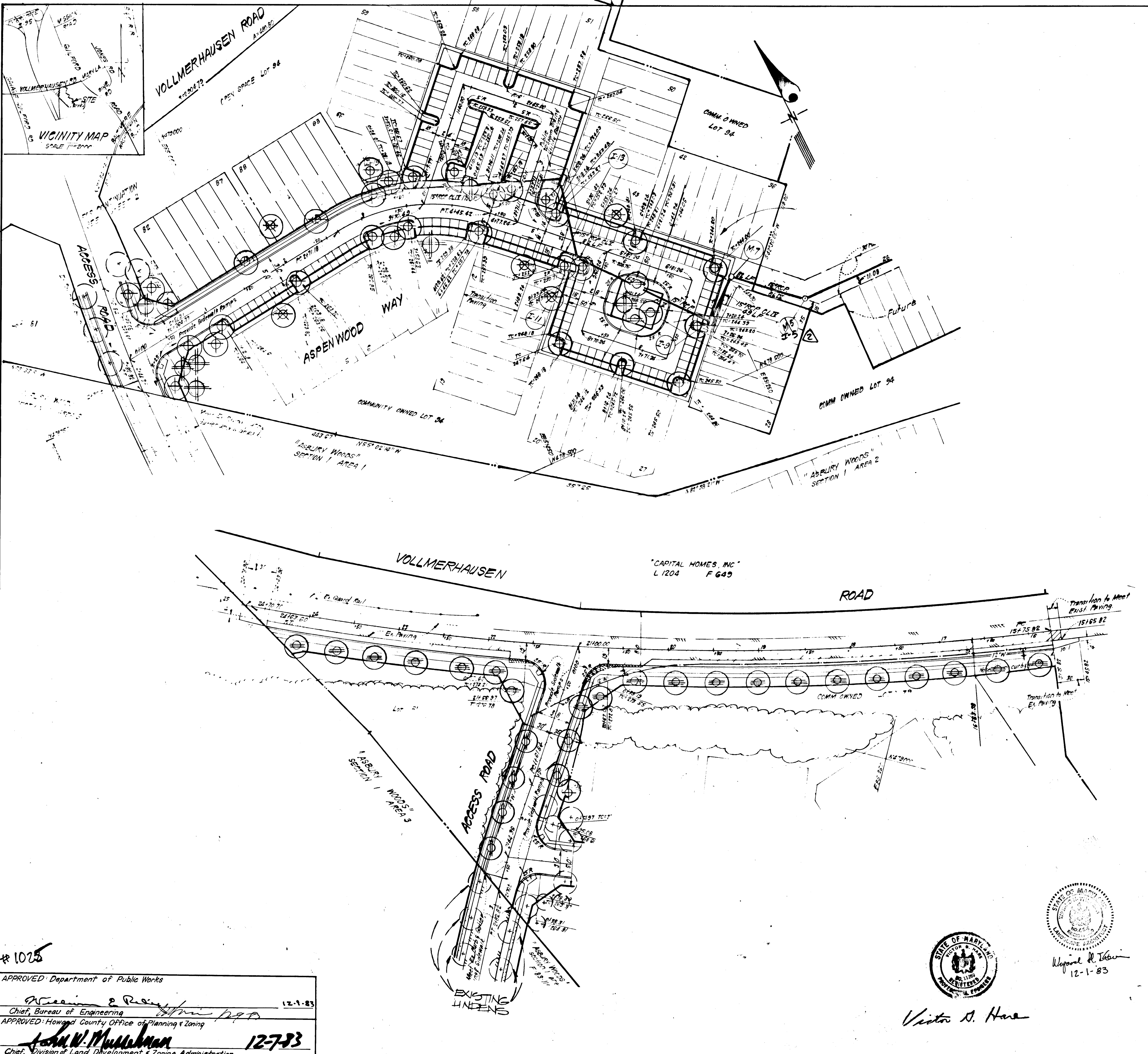
**ENGINEERS CERTIFICATE**

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.

*John W. Murchman*  
6 Nelson Court  
Date 8-23-83

APPROVED: Department of Public Works		12-7-83	
<i>John W. Murchman</i> Chief, Bureau of Engineering		Date	
APPROVED: Howard County Office of Planning and Zoning		12-7-83	
<i>John W. Murchman</i> Chief, Division of Land Development & Zoning Administration		Date	
<b>CLARK • FINEBROCK &amp; SACKETT</b> ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 301-593-3400			
DESIGNED JWS	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN		SCALE As Shown
DRAWN M/W	<b>ASPENWOOD</b>		DRAWING 5 of 6
CHECKED AS	SECTION 1 AREA 1 67th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		JOB NO. 81078
DATE 11-4-83	FOR: CAPITAL HOMES, INC. 8500 Rock Spring Dr. Suite 200 The Bedford Bldg, Bethesda, MD 20834		DATE 8-1-78-D

#1025



### PLANT SCHEDULE

KEY	PLANT NAME	SIZE	QUANT	REMARKS
STREET TREE PLANTING (SHEET 1 OF 2)				
⊕	PROPOSED STREET TREES			
⊕	ZELKOVA S. VILLAGE GP. VILLAGE GREEN ZELKOVA	2 1/2" CAL MIN.	20	B&D HEAVY HEADS
⊕	TILIA COPRISTA LITTLE LEAF LINDEN		6	
⊕	ACER PLATANUS OCT. GLORY OCT. GLORY MAPLE		32	
⊕	LIQUIDAMBAR STYRACFLA SWEETGUM		5	
⊕	QUERCUS PALMIFOLIA PIN OAK		3	
⊕	FRAXINUS S. KWANZAN KWANZAN CHERRY		7	

NOTE:  
 \* CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING.  
 \* FINAL LOCATIONS OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS.  
 \* PLANTING PROPOSED SHALL COMPLY WITH LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS.

No.	REVISION	DATE
1	Revised Parking Bay, Sidewalk & Paving for resubdivided lots 67-78 which are from Lots 82, 93	11-1-84
2	CONVERT EXISTING MANHOLE M-5 TO NEW YARD INLET J-5	2-19-92

**CLARK • FINEFROCK & SACKETT**  
 ENGINEERS • PLANNERS • SURVEYORS

DESIGNED JBC	<b>LANDSCAPE PLANTING PLAN</b> STREET TREES FOR VOLLMERHAUSEN, ASPENWOOD ACCESS & ASPENWOOD ROADS ASPENWOOD SECTION 1 AREA 1, 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: CAPITAL HOMES, INC. 6600 ROCK SPRING DRIVE BETHESDA, MD 20834	SCALE 1"=50'
DRAWN JBC		DRAWING 6066
CHECKED WHT		JOB NO 21-078
DATE 11-30-83		FILE NO 1.0 21-078

APPROVED: Department of Public Works  
 Chief, Bureau of Engineering  
 APPROVED: Howard County Office of Planning & Zoning  
 Chief, Division of Land Development & Zoning Administration

STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 REGISTERED PROFESSIONAL ENGINEER  
 License No. 12-1-83  
 Victor S. Hara