

REVISION BLOCK

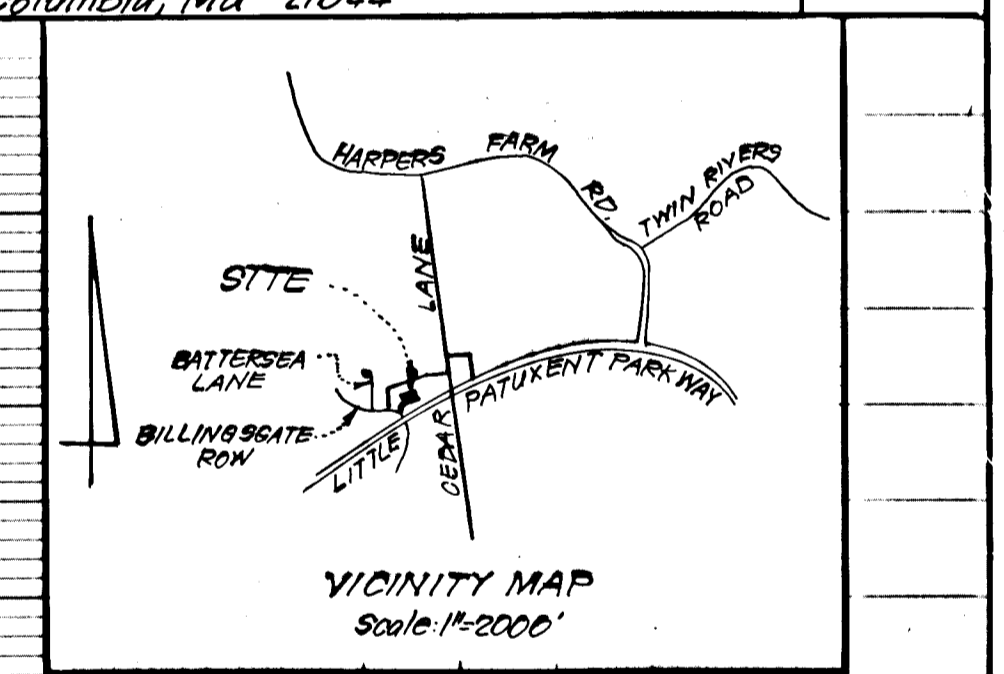
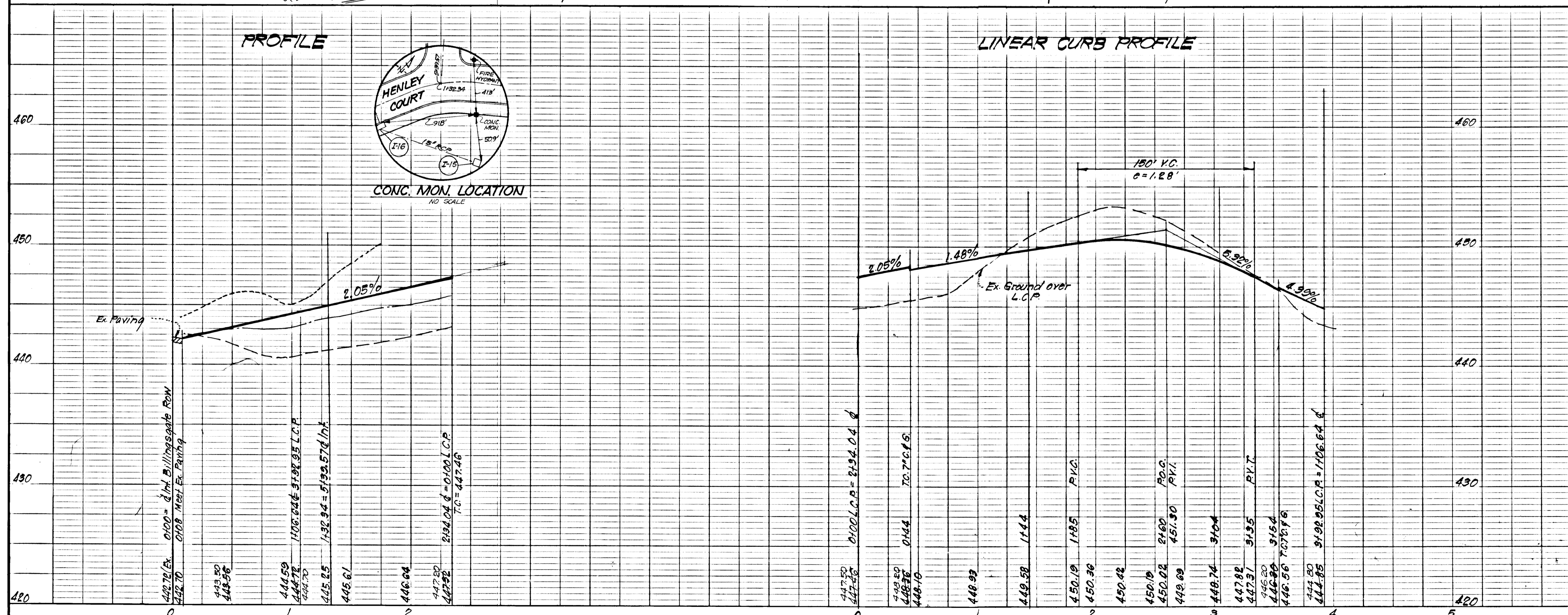
No.	Description	Date
1	Eliminated Barrier Curb in Private Court Islands and added Std. and Revised C&G as shown	2/13/80

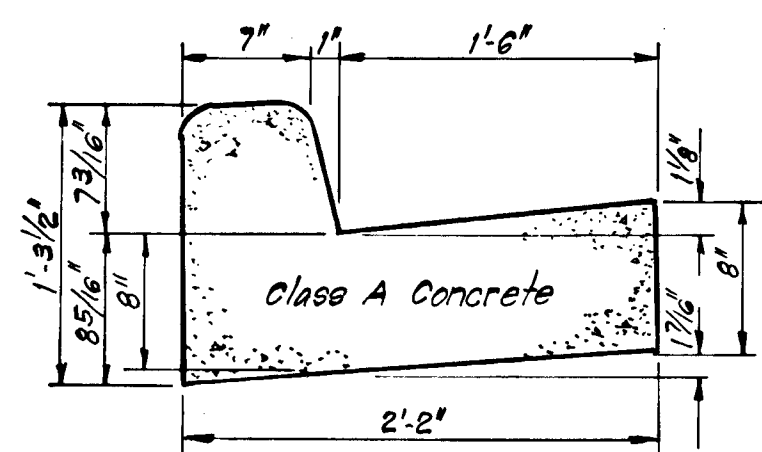
APPROVED: Department of Public Works
 Allen S. Brown, Chief, Bureau of Engineering, 11/9/79
 APPROVED: Howard County Office of Planning and Zoning
 [Signature], Chief, Division of Land Development, 11-5-79

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

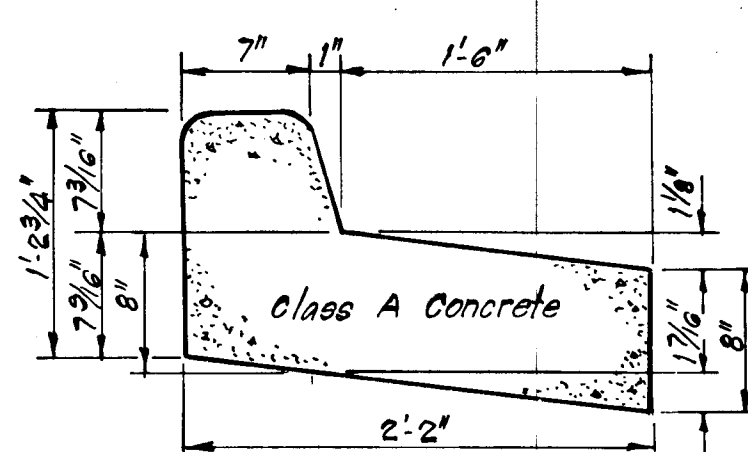
DESIGNED	D.A.B.	ROAD CONSTRUCTION PLANS	SCALE	As Shown
DRAWN	K.I.W.	A RESUBDIVISION OF PARCELS A-1 & B-1	DRAWING	10-A-5
CHECKED	D.A.B.	VILLAGE OF HARPERS CHOICE	JOB NO.	
DATE	July, 1979	SECTION 4 AREA 5	FILE NO.	79-039-D

FOR: K. & M. DEVELOPMENT
 Suite 314 Teachers Building
 Columbia, Md. 21044

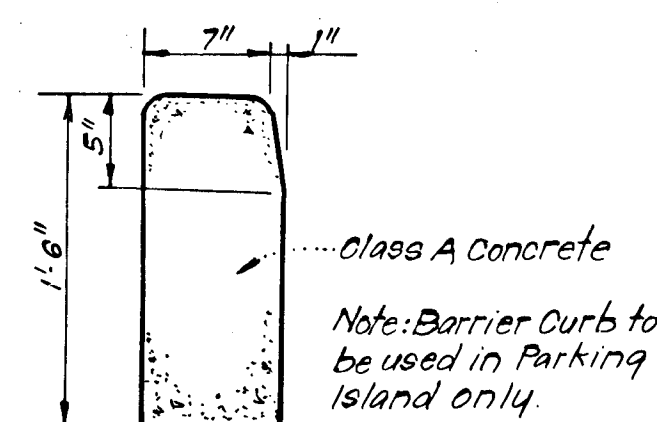




STANDARD 7" COMBINATION CURB & GUTTER
No Scale

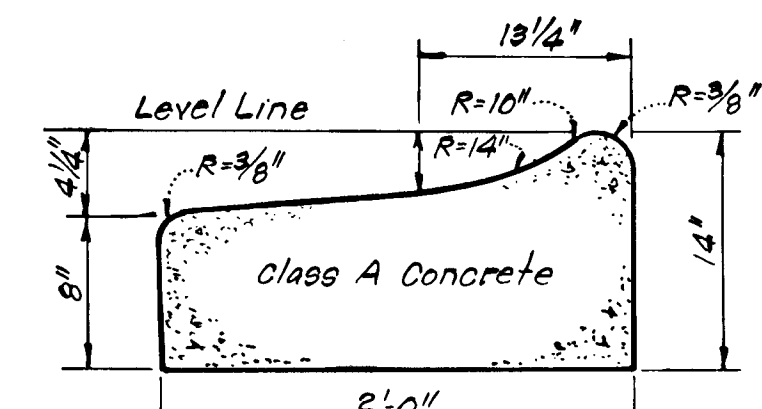


REVERSE 7" COMBINATION CURB & GUTTER
No Scale

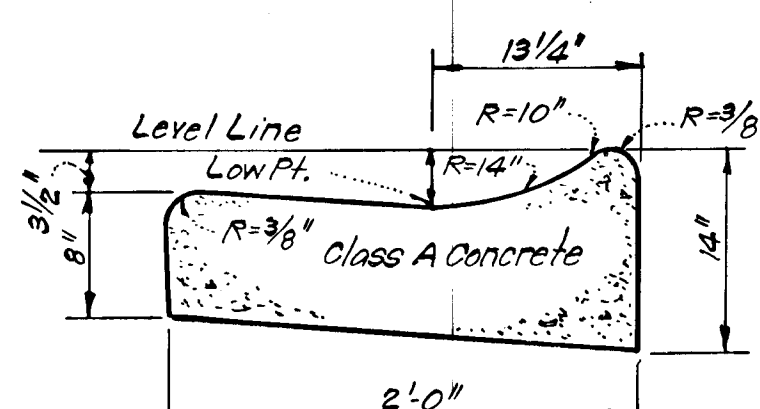


BARRIER CURB
No Scale

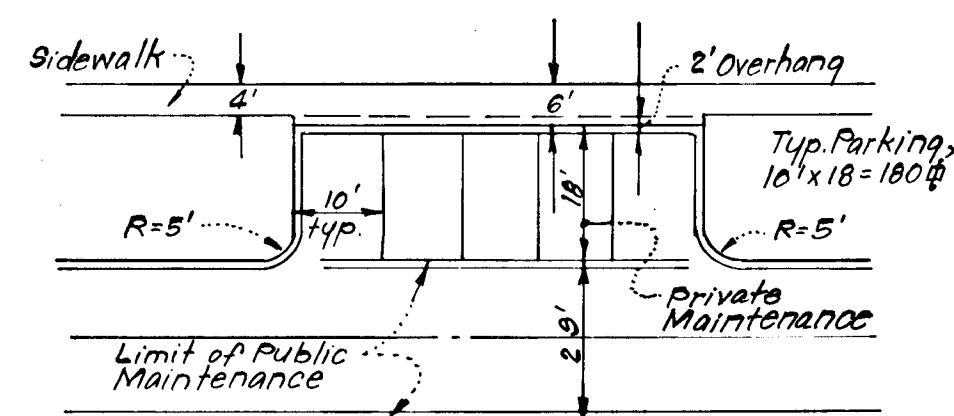
Class A Concrete
Note: Barrier Curb to be used in Parking Island only.



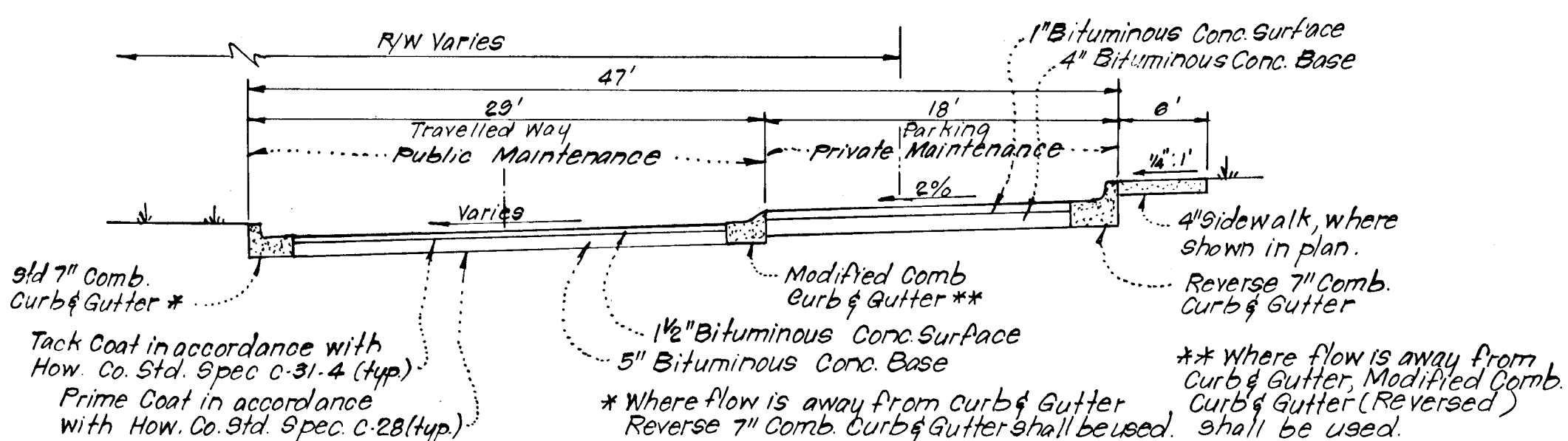
MODIFIED COMBINATION CURB & GUTTER (REVERSED)
No Scale



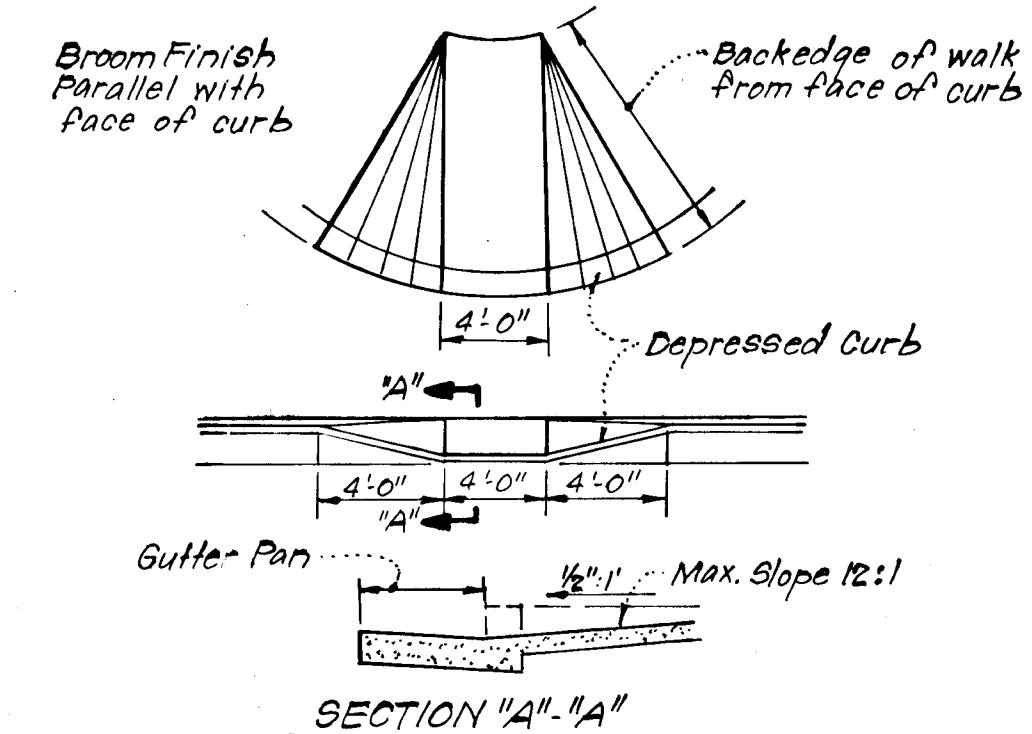
MODIFIED COMBINATION CURB & GUTTER
No Scale



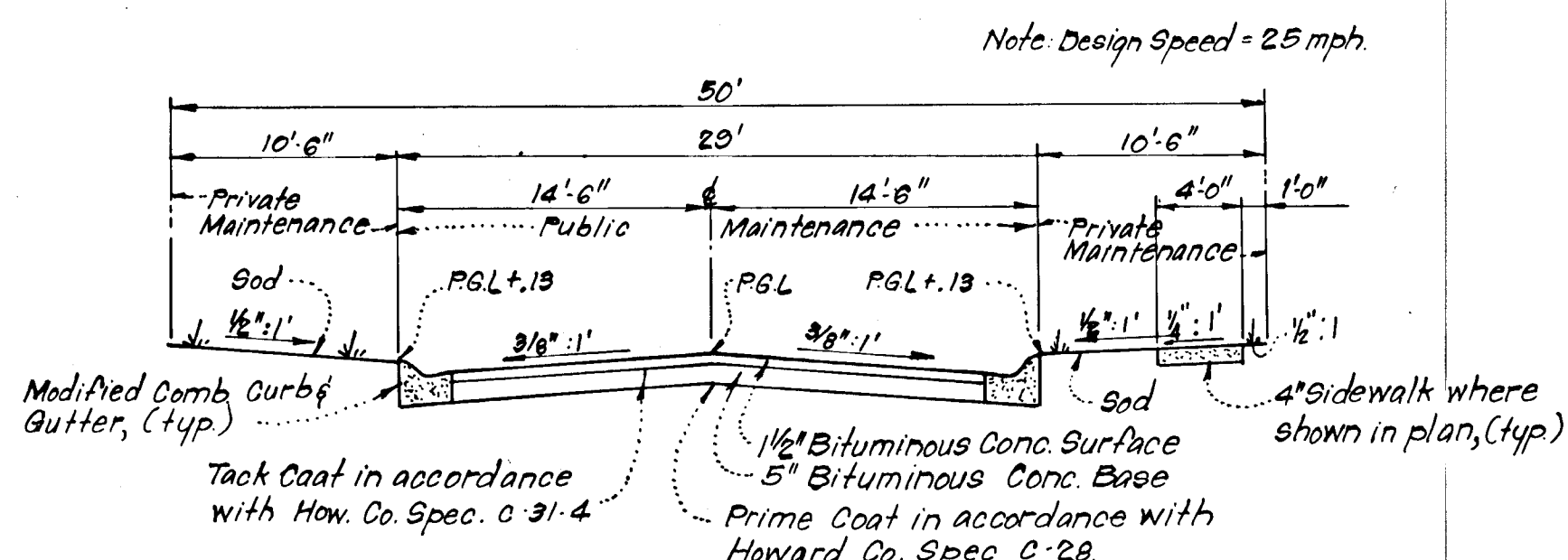
TYPICAL PARKING ADJACENT TO PUBLIC ROADS
No Scale



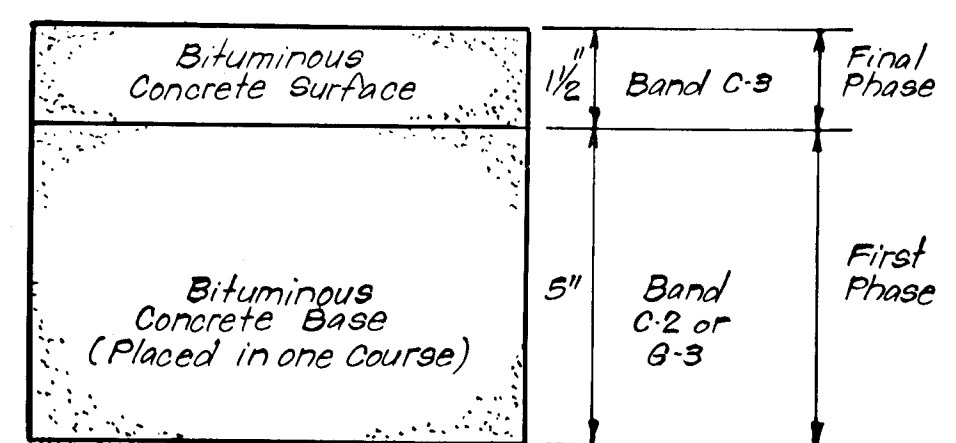
TYPICAL PAVING SECTION - PUBLIC DRIVE AND PRIVATE PARKING "HEWLEY COURT"
No Scale



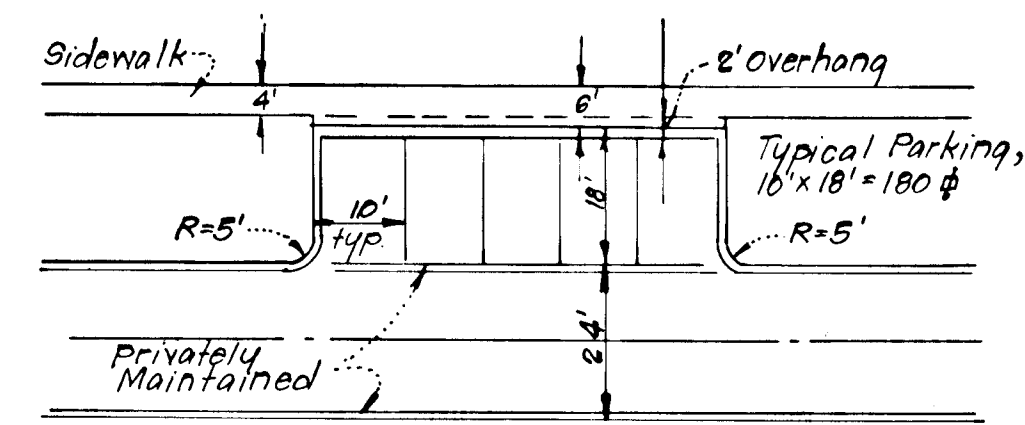
SECTION "A" "A" SIDEWALK RAMP DETAILS
No Scale



TYPICAL PAVING SECTION "HEWLEY COURT"

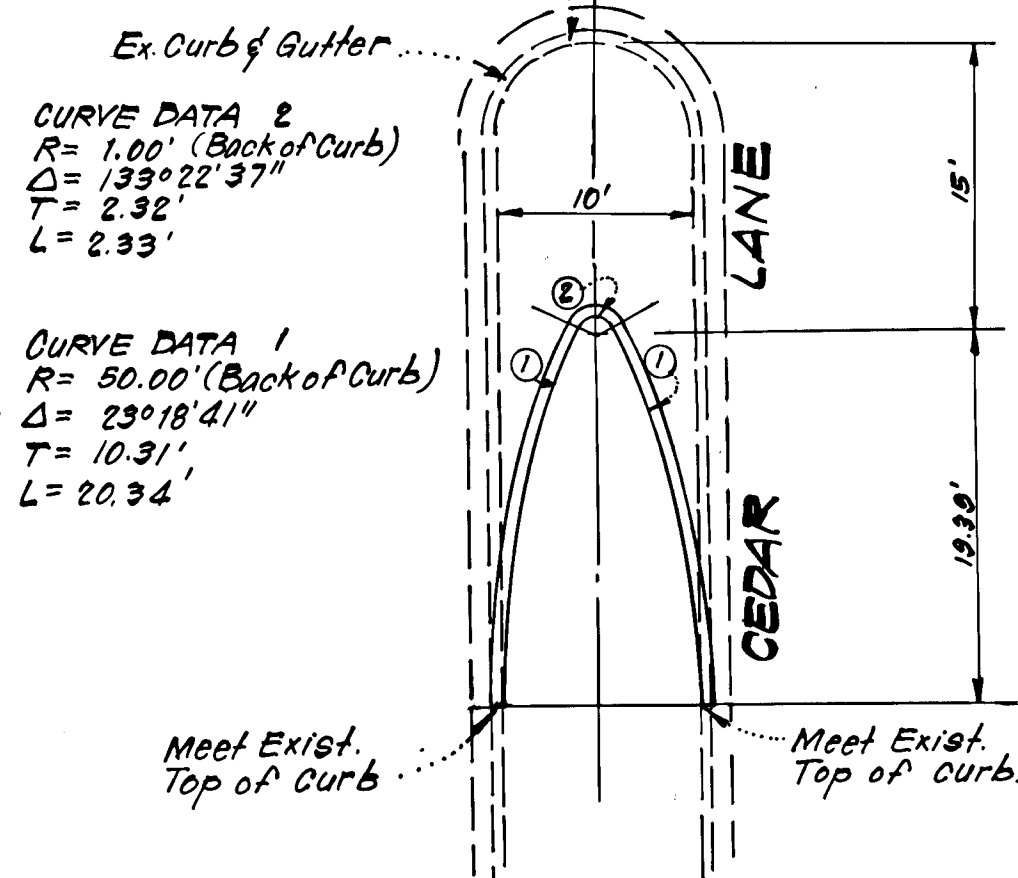


PAVING SECTION FOR PUBLIC ROADS AND ENTRANCES TO PUBLIC ROADS
No Scale



TYPICAL PARKING ADJACENT TO PRIVATE ROADS
No Scale

Note: Design Speed = 25 mph.



ISLAND DETAIL CEDAR LANE
SCALE: 1" = 10'

Remove Ex. Curb & Gutter. Regrade area to subgrade and rebase with 5" Ho. Co. Std. Band C-2 or C-3 Base and 1 1/2" Band C-3 Surface.

Ex. Curb & Gutter
CURVE DATA 2
R = 1.00' (Back of Curb)
Δ = 133° 22' 37"
T = 2.32'
L = 2.33'

CURVE DATA 1
R = 50.00' (Back of Curb)
Δ = 23° 18' 41"
T = 10.31'
L = 20.34'

Clearing and Grading
Subgrade
Base Course
Surface Course
Article C-1
Article C-2
Article C-3 or C-33
Article C-31
To be constructed in accordance with the Howard County Road Construction Code and Specifications.

std 7" Comb. Curb & Gutter *
Tack Coat in accordance with How. Co. Std. Spec. C-31.4 (Typ.)
Prime Coat in accordance with How. Co. Std. Spec. C-28 (Typ.)
1" Bituminous Conc. Surface
4" Bituminous Conc. Base
4" Sidewalk, where shown in plan.
std 7" Comb. Curb & Gutter *

TYPICAL PAVING SECTION - PRIVATE DRIVE AND PRIVATE PARKING
No Scale

APPROVED: Department of Public Works

C. L. Brown 1/9/79
Chief, Bureau of Engineering Date

APPROVED: Howard County Office of Planning and Zoning

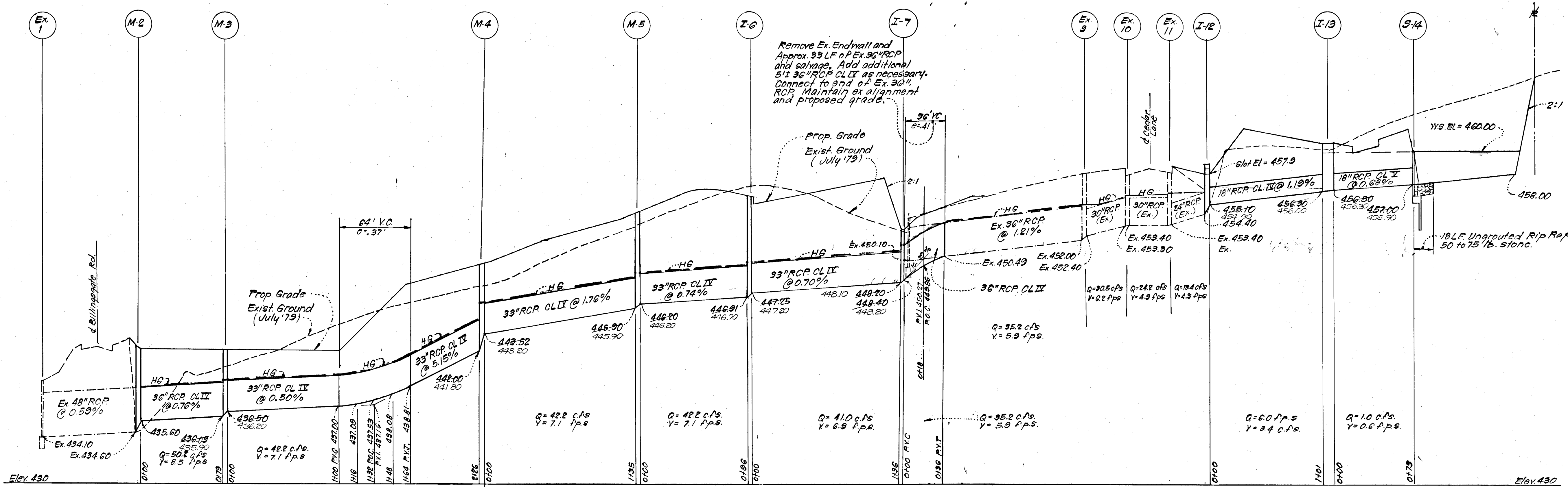
William W. ... 11-5-79
Chief, Division of Land Development Date

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

DESIGNED	D.A.B.	SCALE	As Shown
DRAWN	K.L.W.	DRAWING	2045
CHECKED	D.A.B.	JOB NO.	79-036
DATE	Aug, 1979	FILE NO.	79-036

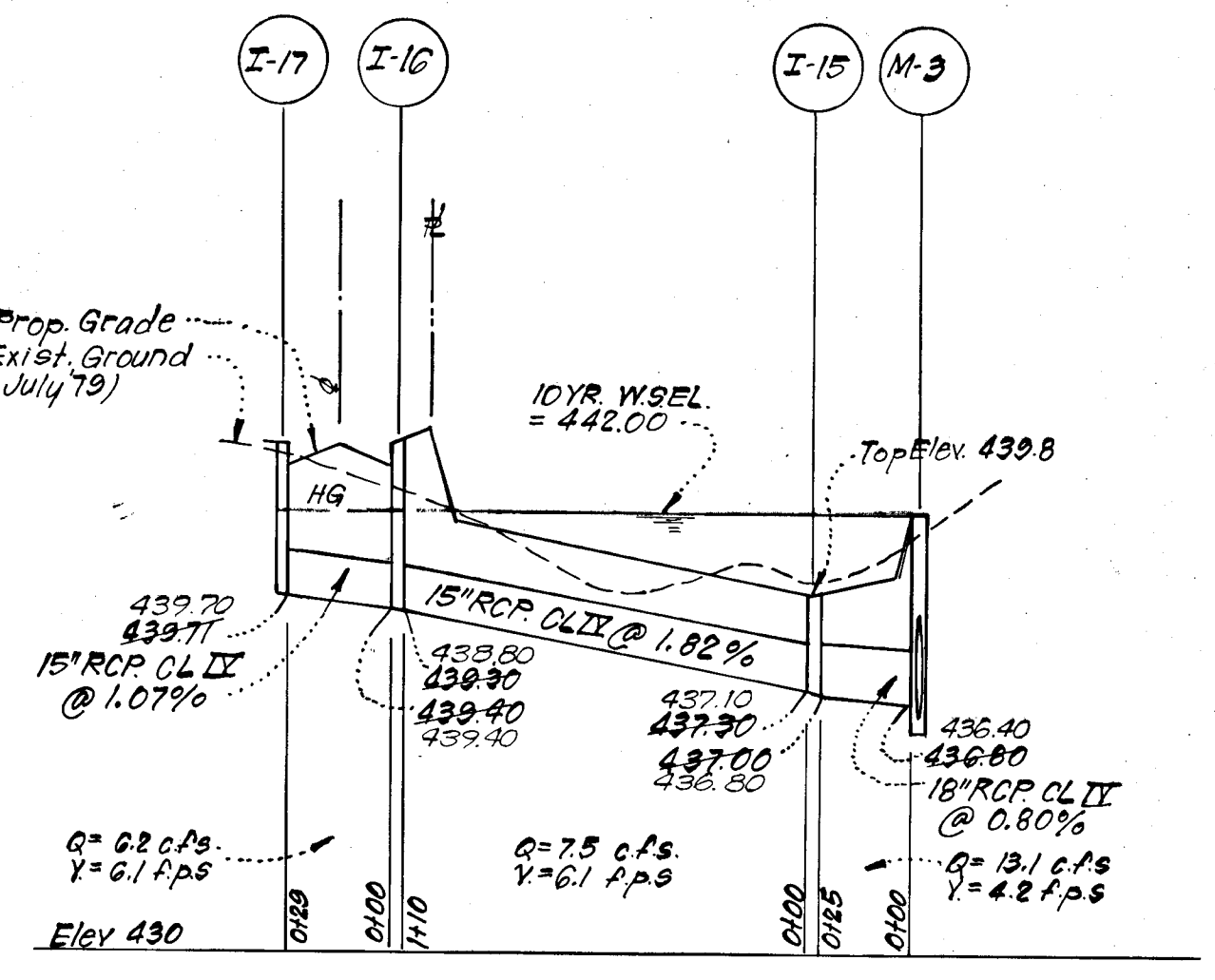


8-14-79



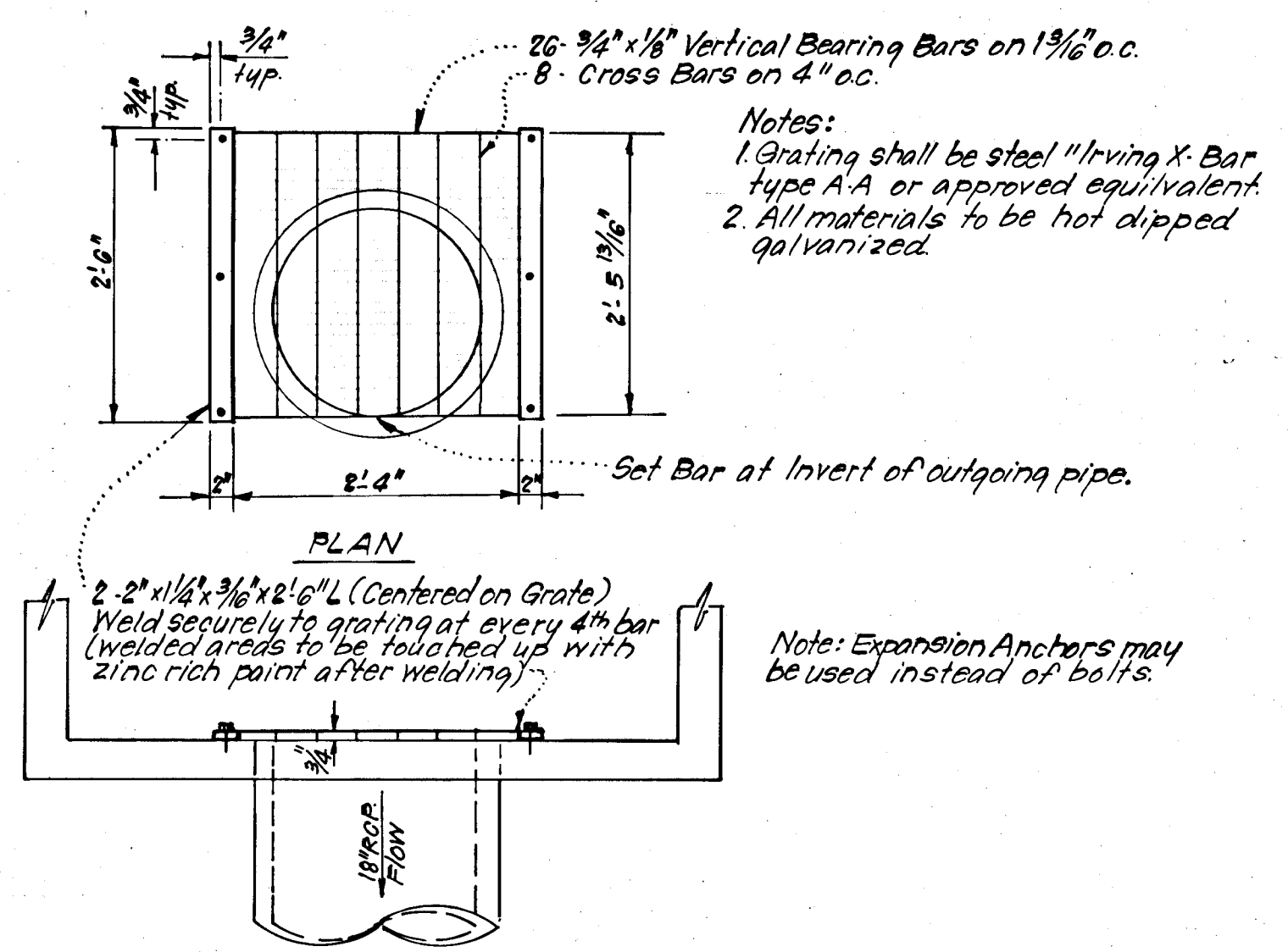
PROFILE

SCALE: HORIZ 1"=50'
VERT 1"=5'



PROFILE

SCALE: HORIZ 1"=50'
VERT 1"=5'



TRASH RACK AT STRUCTURE NO. 16

No Scale

No.	TYPE	INV. IN.	INV. OUT.	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
M-2	B-Manhole	435.60	434.60	442.30	442.30	Ho. Co. Std. Fig. 3.03	48'59" 586 PLAN
M-3	B-Manhole	438.80	436.09	442.00	442.00	Ho. Co. Std. Fig. 3.03	48'59" "
M-4	B-Manhole	445.52	442.00	449.30	449.30	Ho. Co. Std. Fig. 3.03	48'59" "
M-5	A-1 Manhole	448.20	445.90	454.70	454.70	Ho. Co. Std. Fig. 3.01	48'0" "
I-6	A-10 Inlet	447.25	446.91	456.20	456.10	Ho. Co. Std. Fig. 4.02	W=3'6" "
I-7	K-Inlet, Dbl. Gate Tandem	448.40	448.20	459.00	459.00	S.H.A. Std. No. MD. 378.02	" "
I-12	D-Inlet	455.10	454.40	458.73	458.73	Ho. Co. Std. Fig. 4.11	30'16" "
I-13	A-10 Inlet	456.50	456.30	460.80	460.70	Ho. Co. Std. Fig. 4.02	W=2'6" "
S-14	A-Endwall	457.00	457.00	-	-	Ho. Co. Std. Fig. 5.11	Dia=18" "
I-15	Yard Inlet	437.30	437.00	439.80	439.80	S.H.A. Std. No. MD. 381.01	W=2'6" "
I-16	A-10 Inlet	439.40	439.30	443.82	443.53	Ho. Co. Std. Fig. 4.02	W=2'6" 13.67' RT. 4 0150
I-17	A-10 Inlet	-	439.71	443.82	443.53	Ho. Co. Std. Fig. 4.02	W=2'6" 13.67' L. 4 0150

* No Concrete Ditch Required

SIZE	TYPE	LENGTH
15"	R.C.P. CL II	139 LF
18"	R.C.P. CL II	73 LF
18"	R.C.P. CL II	186 LF
33"	R.C.P. CL II	503 LF
36"	R.C.P. CL II	78 LF

Note: Apply water proofing to face of steel plate prior to bolting to str. to form water tight connection.
1/4" Steel Plate
Cut 3 1/2" hole in str. plate @ str. I-13
Cut 4" hole in str. plate @ str. I-15 for orifice control at inv. of outgoing pipe
Drill 9/16" holes. Bolt to structure wall w/ 1/2" Hex. Head Bolts, 3" lg.

STEEL PLATE DETAIL

No Scale

APPROVED: Department of Public Works
Allen J. Brown 11/9/79
 Chief, Bureau of Engineering
 APPROVED: Howard County Office of Planning & Zoning
Paul Musickman 11-5-79
 Chief, Division of Land Development

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

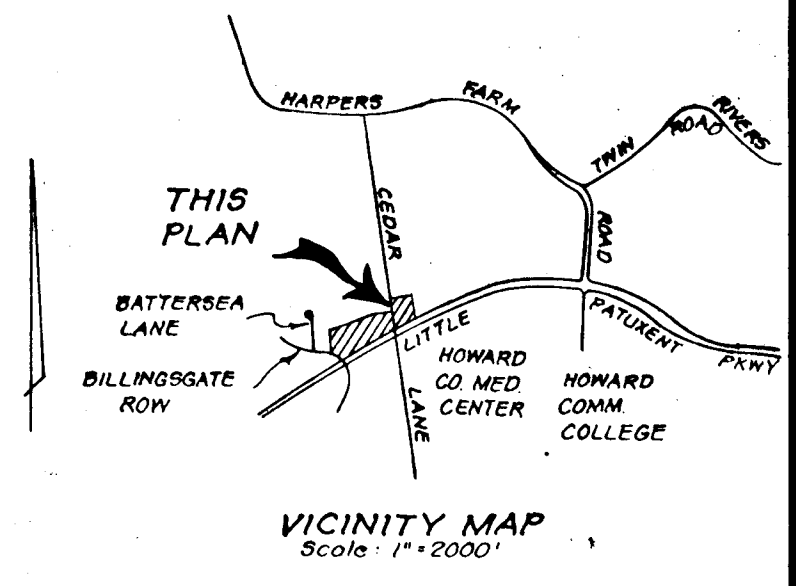
DESIGNED: D.A.B.
 DRAWN: D.A.B.
 K.I.W. CHECKED: D.A.B.
 DATE: Aug, 1979

SCALE: As Shown
 DRAWING: 3 of 5
 JOB NO.:
 FILE NO.: 79039-D

ROAD CONSTRUCTION PLANS
 A RESUBDIVISION OF PARCELS A-1 & B-1
COLUMBIA
 VILLAGE OF HARPERS CHOICE
 SECTION 4 AREA 5
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: K & M DEVELOPMENT
 Suite 314 Teachers Building
 Columbia, Md 21044



St. N. Don
 8-14-79



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

Allen J. Ryan 11/9/79
 Date

John W. Mendenhall 11-5-79
 Date

- LEGEND:**
- 1. Contour Interval 2 FT.
 - 2. Exist. Contour - - - - -
 - 3. Prop. Contour - - - - -
 - 4. Prop. Storm Drain
 - 5. Perimeter Dike
 - 6. Straw Bale Dike or Silt Fence | S.B.D./S.F.
 - 7. Stone Filter Inlet Protection [Symbol] S.F.I.P.
 - 8. Stabilized Construction Entrance [Symbol]

Reviewed for... **HOWARD** S.C.D.
 Name
 and meets Technical Requirements
John W. Mendenhall 11-2-79
 Signature Date
 U.S. Soil Conservation Service

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

William J. Rame 11-2-79
 Approved 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 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.

Patricia K. P...
 Signature Date



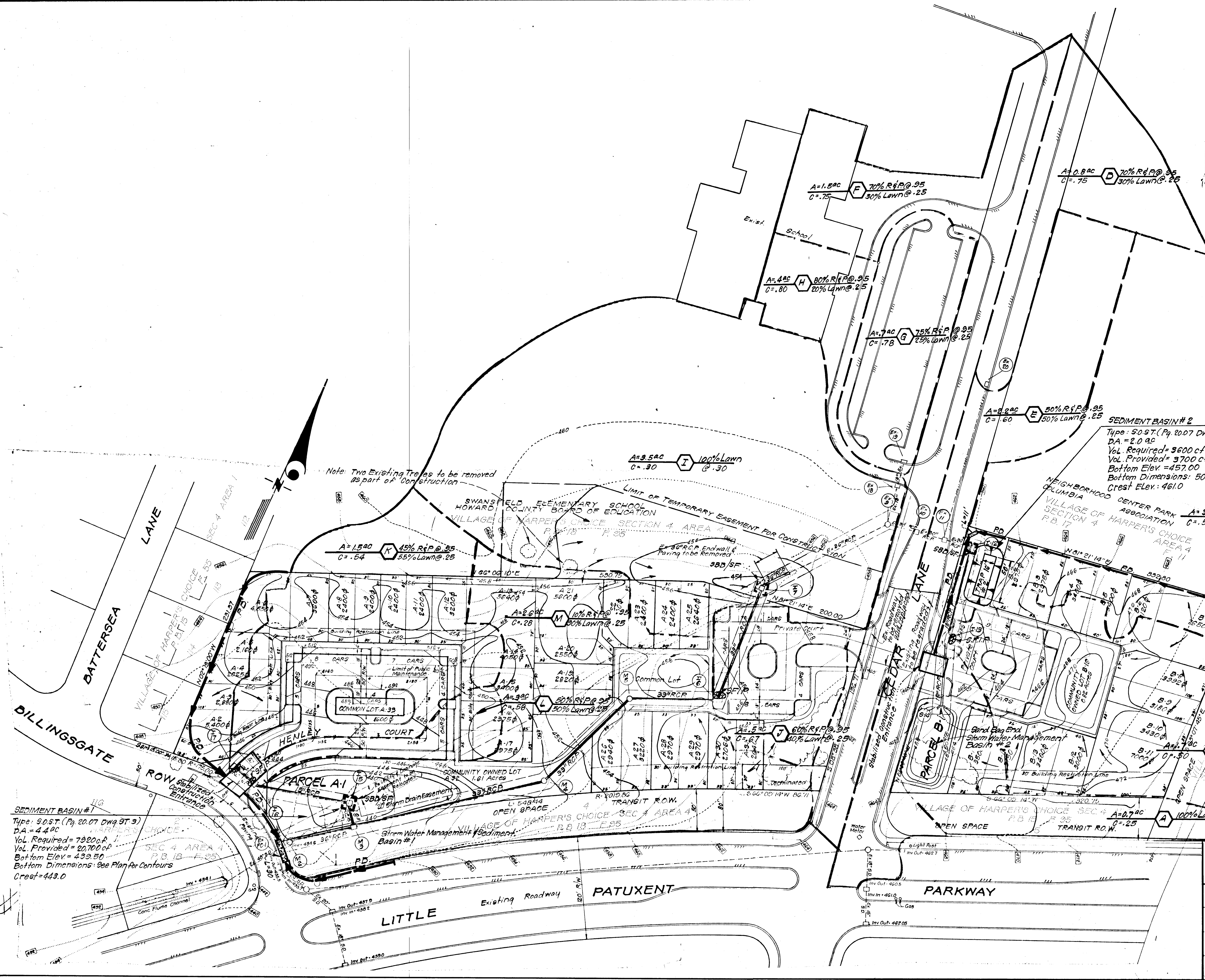
ENGINEER'S CERTIFICATE

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.

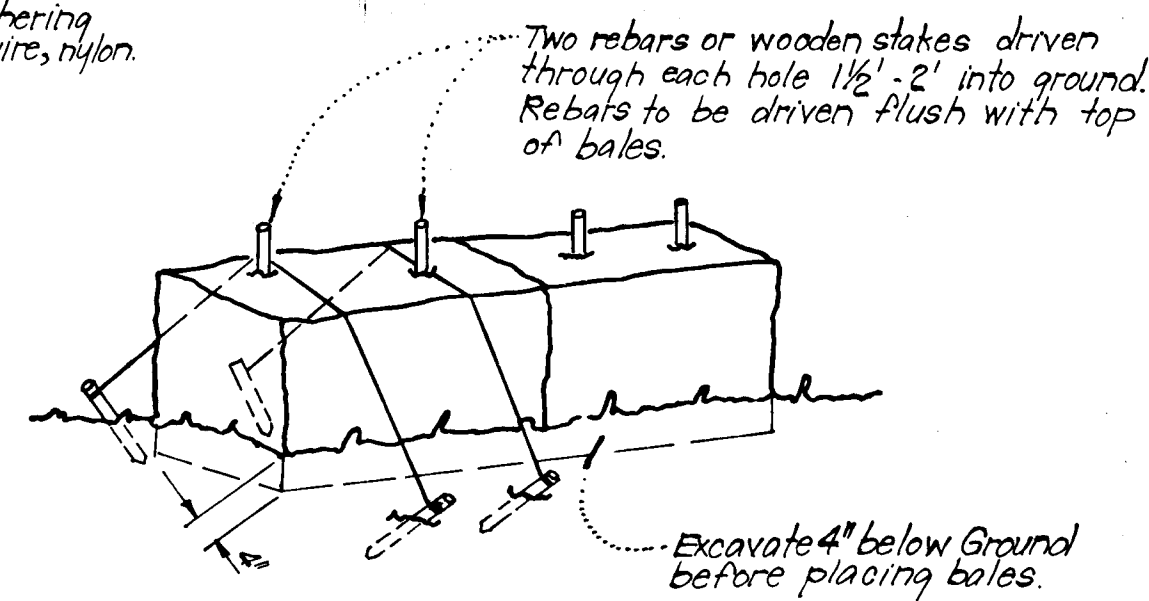
John W. Clark 8-14-79
 G. Nelson Clark Date

CLARK • FINEROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS

DESIGNED	DAB	ROAD CONSTRUCTION PLANS	SCALE
DRAWN	K.M.W.	A REUBDIVISION OF PARCELS A-19/B-1	1" = 50'
CHECKED	DAB	DRAINAGE AREA MAP & SEDIMENT & EROSION CONTROL PLAN	DRAWING
DATE	Aug, 1979	COLUMBIA	4 OF 5
		VILLAGE OF HARPER'S CHOICE SECTION 4 AREA 5	JOB NO.
		5th ELECTION DISTRICT	79-039
		HOWARD COUNTY, MARYLAND	FILE NO.
		FOR: K & M DEVELOPMENT	79-039-D
		Suite 314, Teachers Bldg.	
		Columbia, Md 21044	

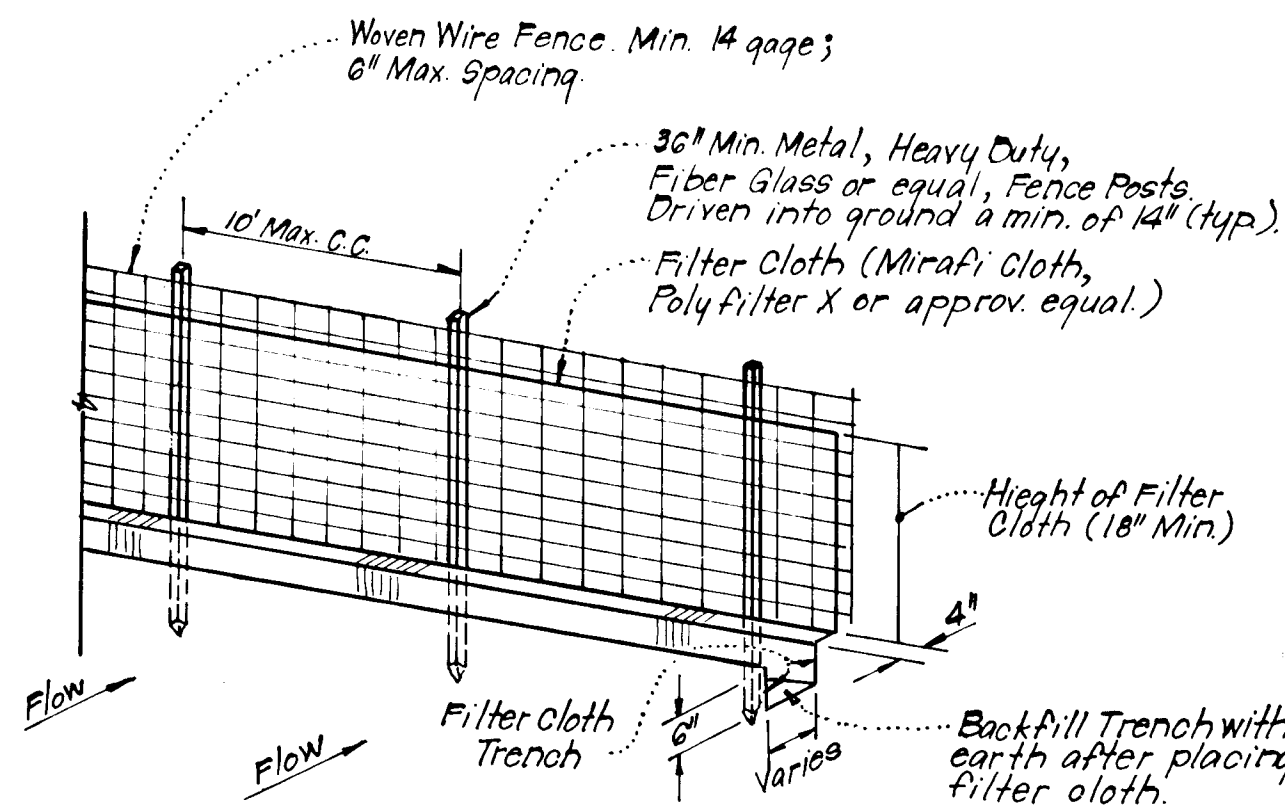


All bales shall be tied with non-weathering material, i.e., wire, nylon.



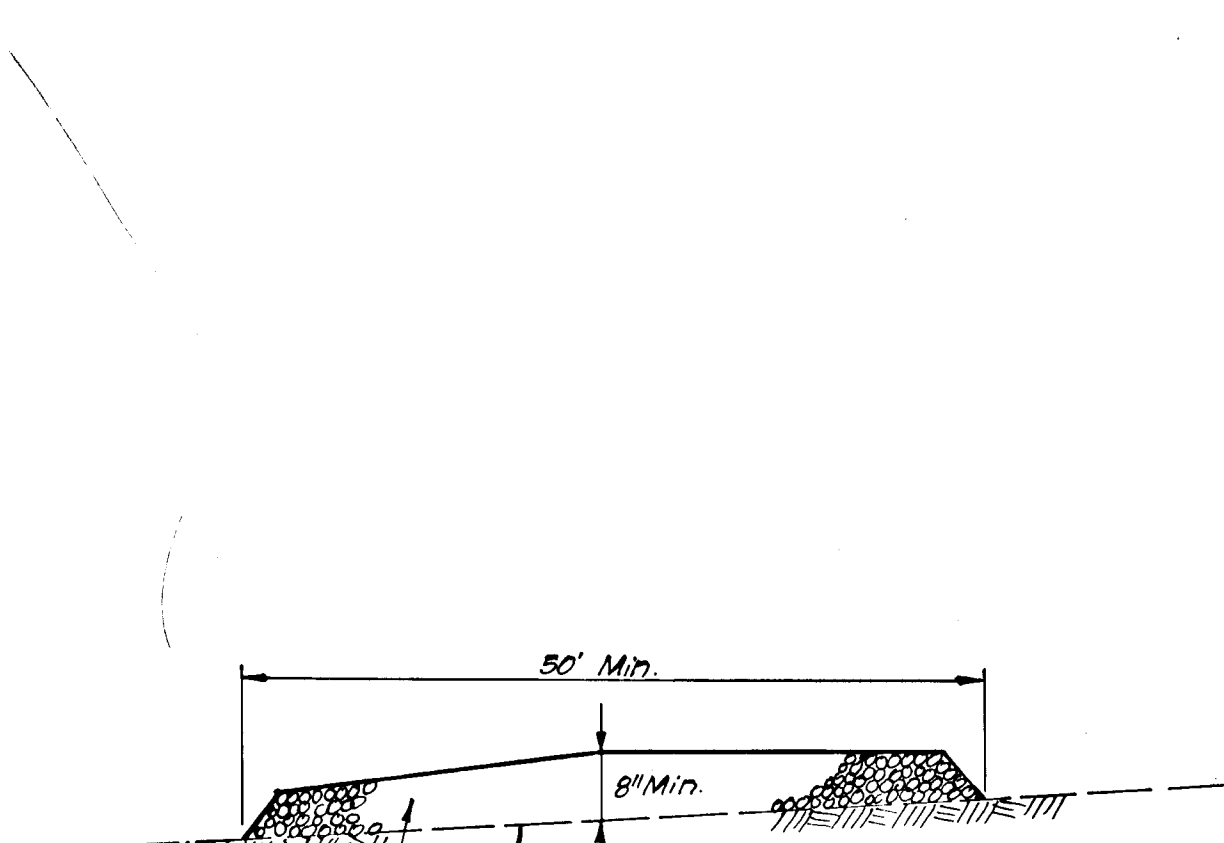
Note:
1. In lieu of the use of rebar each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

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



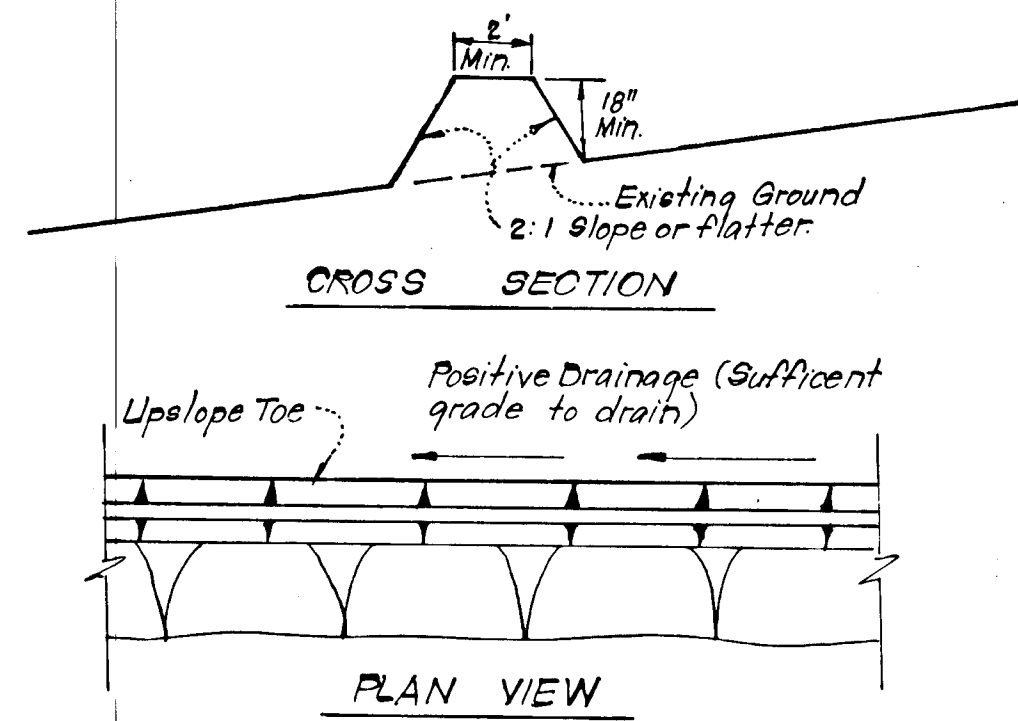
Notes:
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
2. Filter Cloth to be fastened securely to Woven Wire, by use of wire ties spaced every 24"x24"

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

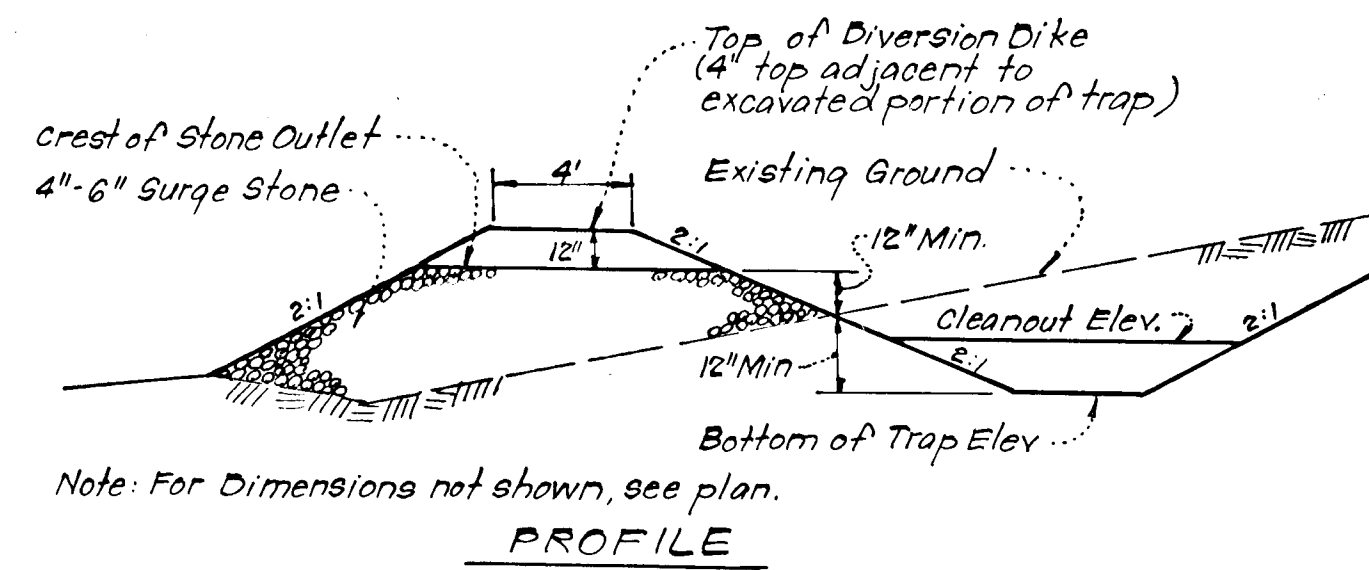


M.S.A. No. 2 Stone
Exist. or Prop. Ground

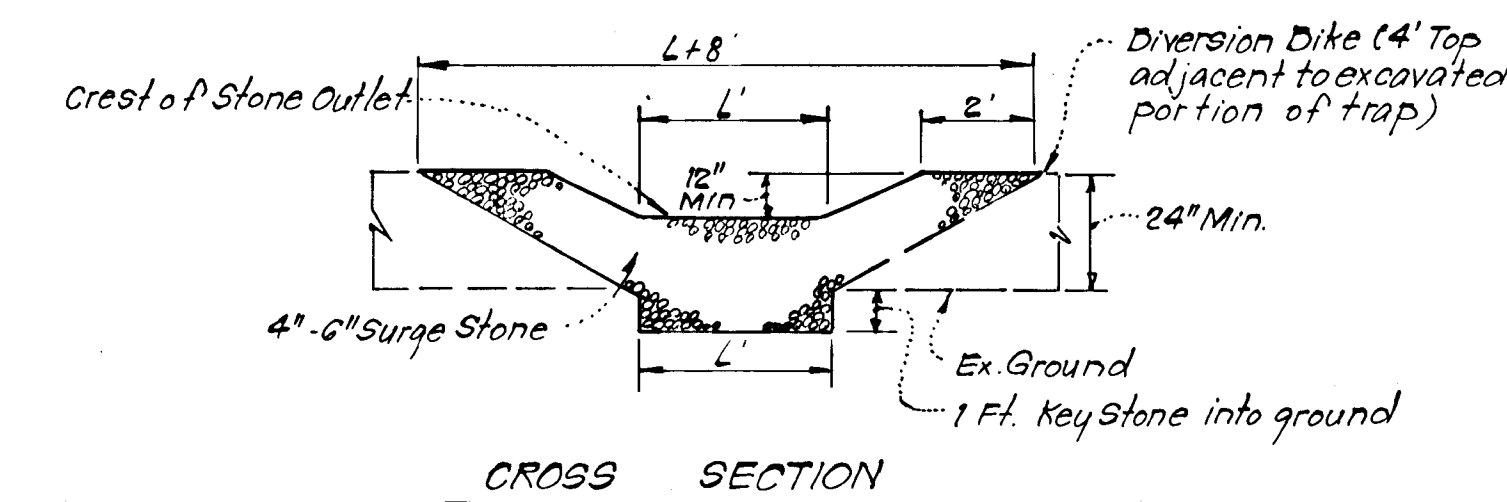
STABILIZED CONSTRUCTION ENTRANCE
No Scale



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

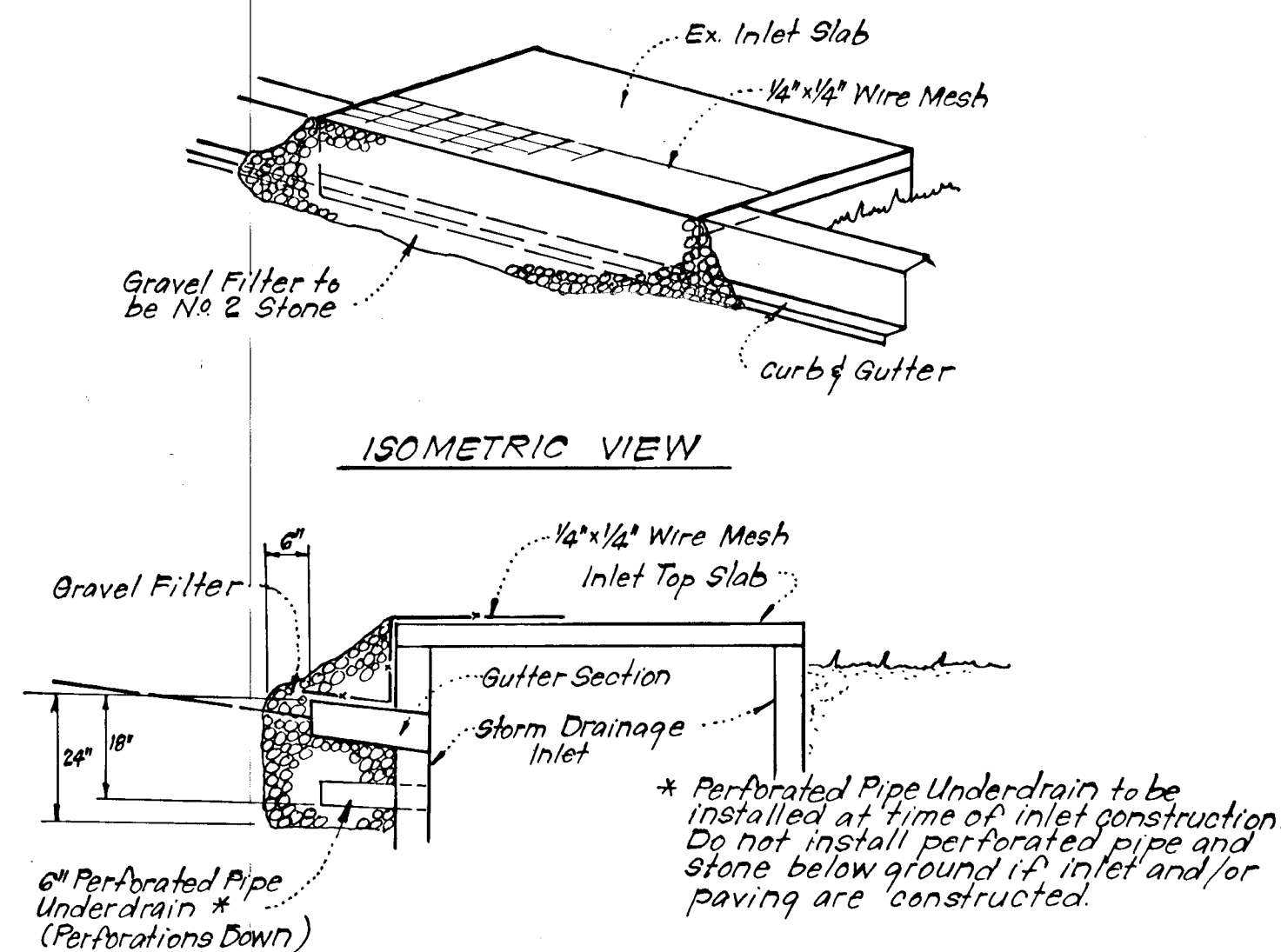


Note: For Dimensions not shown, see plan.

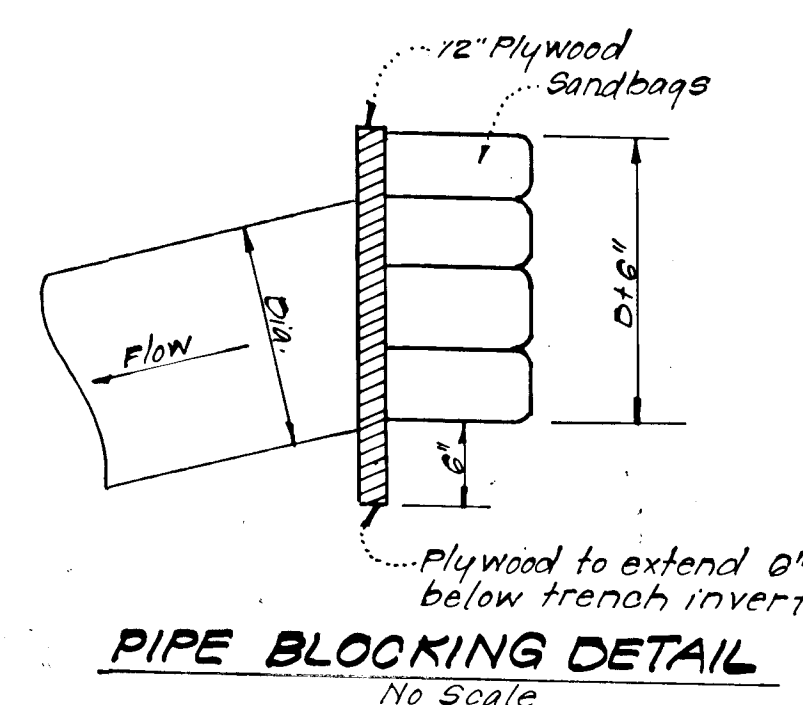


Notes:
1. Sediment Trap to be cleaned out when sediment reaches a level of 1 ft below crest of stone outlet.
2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
3. Stone Outlet to be constructed through diversion dike adjacent to excavated portion of sediment trap.

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



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



PIPE BLOCKING DETAIL
No Scale

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:
A. 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.
B. Fertilizer- 10-10-10 applied at a rate of 25 lbs/1000 s.f. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 46 lbs/1000 s.f.
C. 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.
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 developer's 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.
- SITE ANALYSIS:**
A. Total Area: 6.46 Acres
B. Total Area Paved: 1.2 Acres
C. Total Area Seeded: 5.26 Acres
- CONSTRUCTION SEQUENCE:**
A. Install Perimeter Dike, Stabilized Construction Entrance & Sediment Basin #1 & 2
B. Construct Storm Drainage M-2 to M-7 & I-15 to I-17
C. Install Storm Drainage I-12 to I-14.
D. Construct S.W.M. Basin #2 and Stabilize.
E. Rough Grade for Paving.
F. Construct Curb & Gutter, paving and sidewalks
G. Final Grade and Stabilize in accordance with general note #6.
14. Storm Drainage shall be block at the end of each Day in accordance with Pipe Blocking Detail.

Reviewed for **HOWARD** S.C.D. Name
and meets Technical Requirements
James M. DeLo 11-2-79 Date
Signature
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

William V. Rouse 11-2-79 Date
Approved

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.

Peter Kirk, Pres. 10-17-79 Date
Signature

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.

P. H. Clark 8-14-79 Date
P. H. Clark



APPROVED: Department of Public Works <i>Allen S. Brown</i> 11/9/79 Date Chief, Bureau of Engineering			
APPROVED: Howard County Office of Planning and Zoning <i>Richard M. ...</i> 11-5-79 Date Chief, Division of Land Development			
CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400			
DESIGNED D.A.B.	ROAD CONSTRUCTION PLANS SEDIMENT & EROSION CONTROL PLAN A RESUBDIVISION OF PARCEL A-1 & B-1 COLUMBIA VILLAGE OF HARRERS CHOICE SECTION 4 AREA 5 ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE As Shown DRAWING 50'x5	
DRAWN K.I.W.		JOB NO. 79039	
CHECKED D.A.B.		FILE NO. 79039 D	
DATE Aug, 1979		FOR: K&M DEVELOPMENT Suite 319 Teachers Building Columbia, Md 21044	