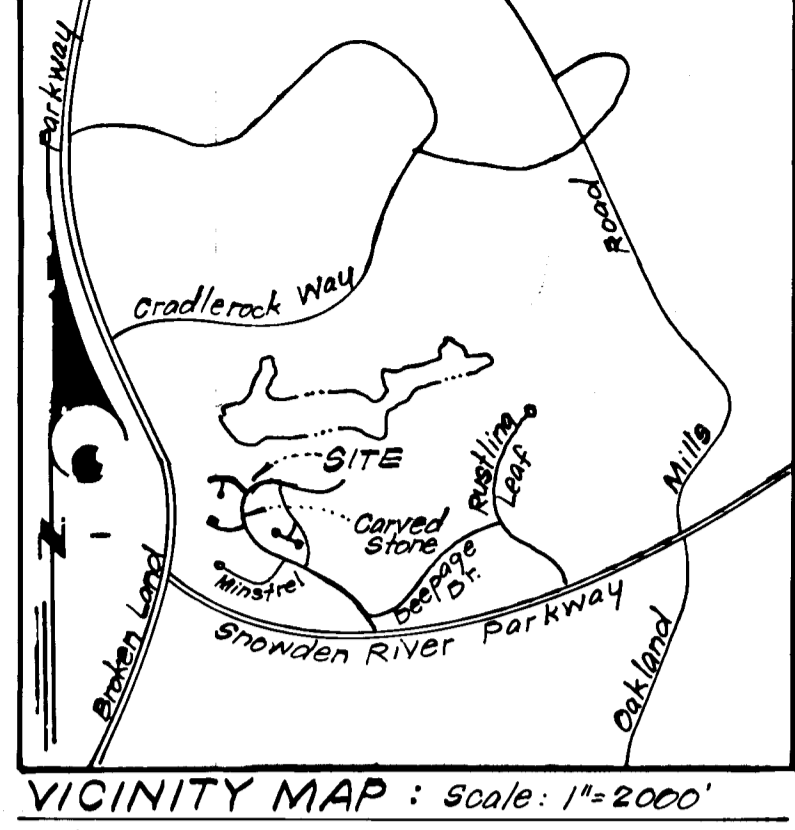
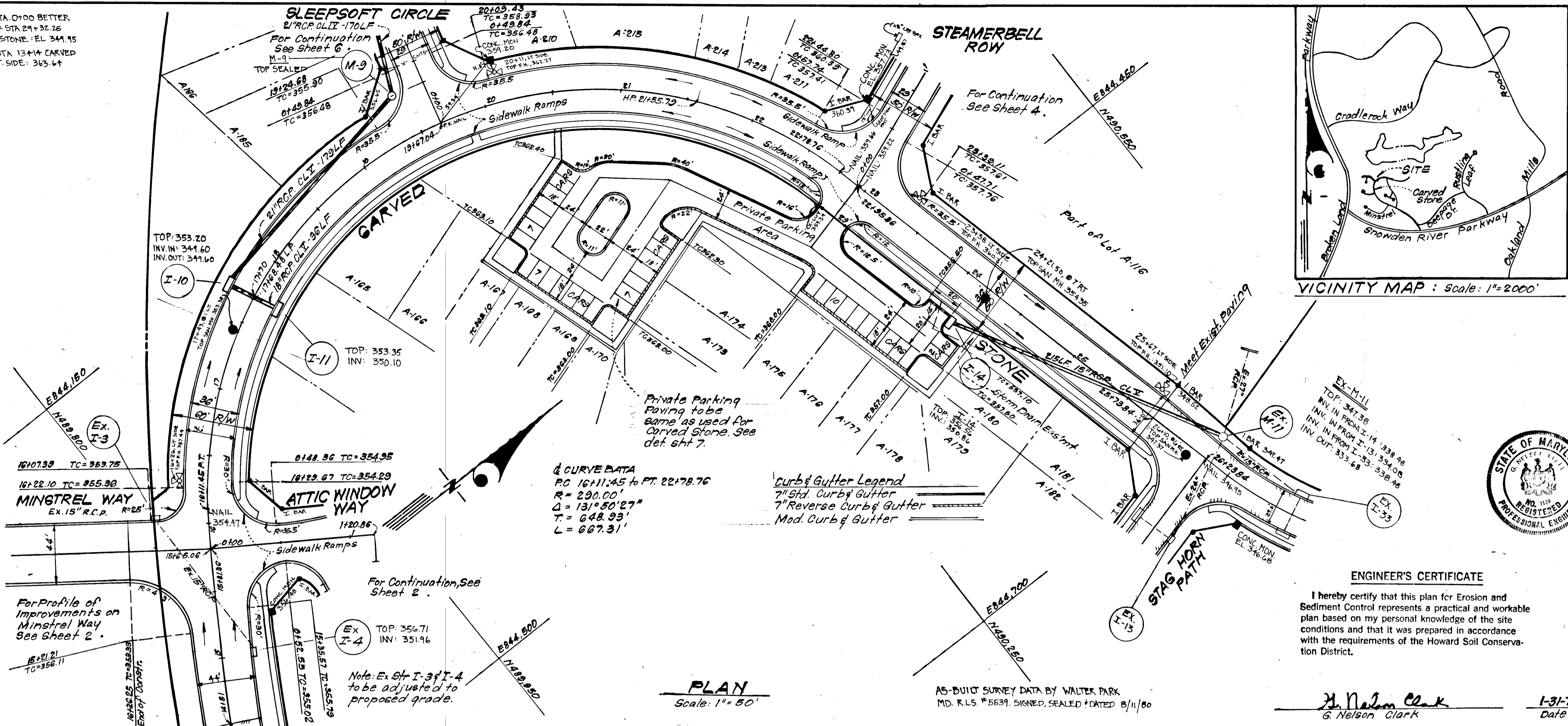


BENCHMARKS: ① P.K. NAL STA. 0+00 BETTER
 HOURS CT: STA 2+1+32.26
 CARVED STONE: EL. 341.95
 ② TOP P.H. STA. 13+14 CARVED
 STONE, LT. SIDE: 365.64



- GENERAL NOTES:**
- All Storm Drain & Paving shall be constructed in accordance with the latest details and Specifications of Howard Co. J.M.A.
 - Types of storm drain structures refer to the Standard Details of Howard County & Maryland State Highway Administration.
 - Trench Compaction for storm drains within Road or Street right of way limits shall be in accordance with the latest Howard Co. Road Code.
 - Information concerning underground utilities was obtained from available records, but the Contractor must determine the exact location and elevation of the mains by digging test pits by hand at all utility crossings, well in advance of construction.
 - All utility companies shall be notified 24 hrs in advance of construction.
 - All traffic control services, parking, and signing to be done in accordance with the Manual of Uniform Traffic Control Devices, 1971 Edition.
 - Sag and Crest Vertical Curves were designed in accordance with AASHTO's policy on Geometric Design of Rural Highways, 1965, by A.A.S.H.O.
 - Provide Concrete sidewalk Ramps in curbs. (Max. 12:1 slope: 4 Ft. wide), where shown in plan. See det. sht. 7.
 - Minimum Cover of 2' shall be provided over storm drain pipes in all areas not being final graded by these plans.
 - Design Speed: Carved Stone: 30 mph. All other roads 25 mph.

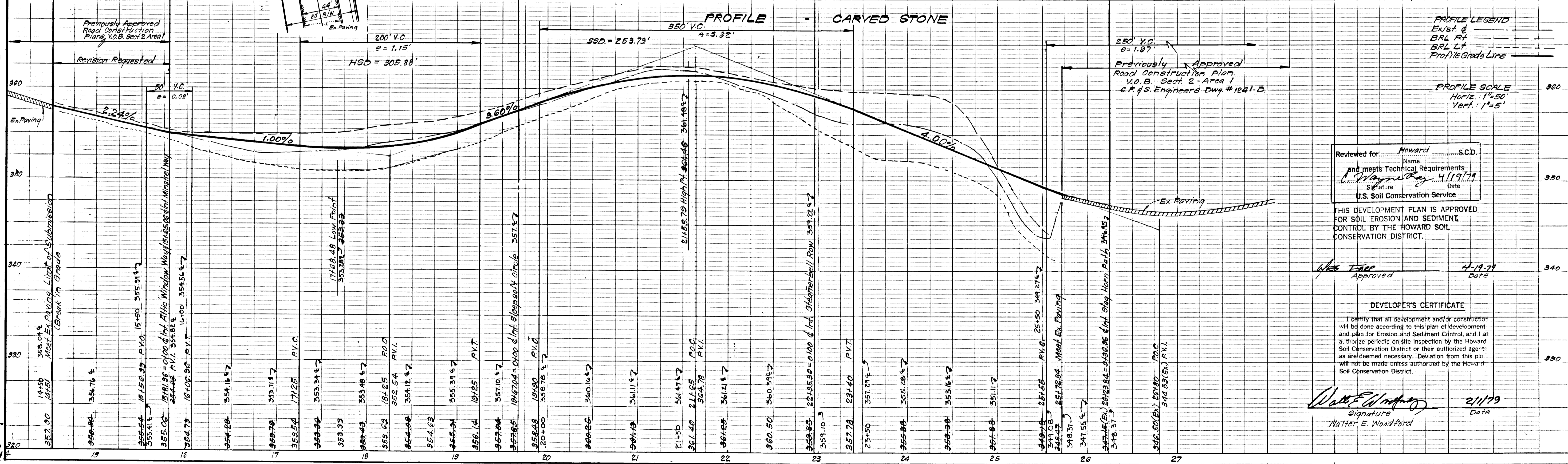
APPROVED: DEPARTMENT OF PUBLIC WORKS
W.O. Gilbert J-10-79
 CHIEF, Bureau of Engineering Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Nusselman 4-23-79
 CHIEF, Division of Land Development Date

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

DESIGNED	D.A.B.	ROAD CONSTRUCTION PLANS A RESUBDIVISION OF PART OF LOT A-116 CARVED STONE	SCALE	As Shown
DRAWN	K.I.W.	COLUMBIA	DRAWING	1 of 10
CHECKED	D.A.B.	VILLAGE OF OWEN BROWN SECTION 2 AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO.	1257-D
DATE	Dec, 1978	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21044		

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. Nelson Clark 1-31-79
 G. Nelson Clark Date

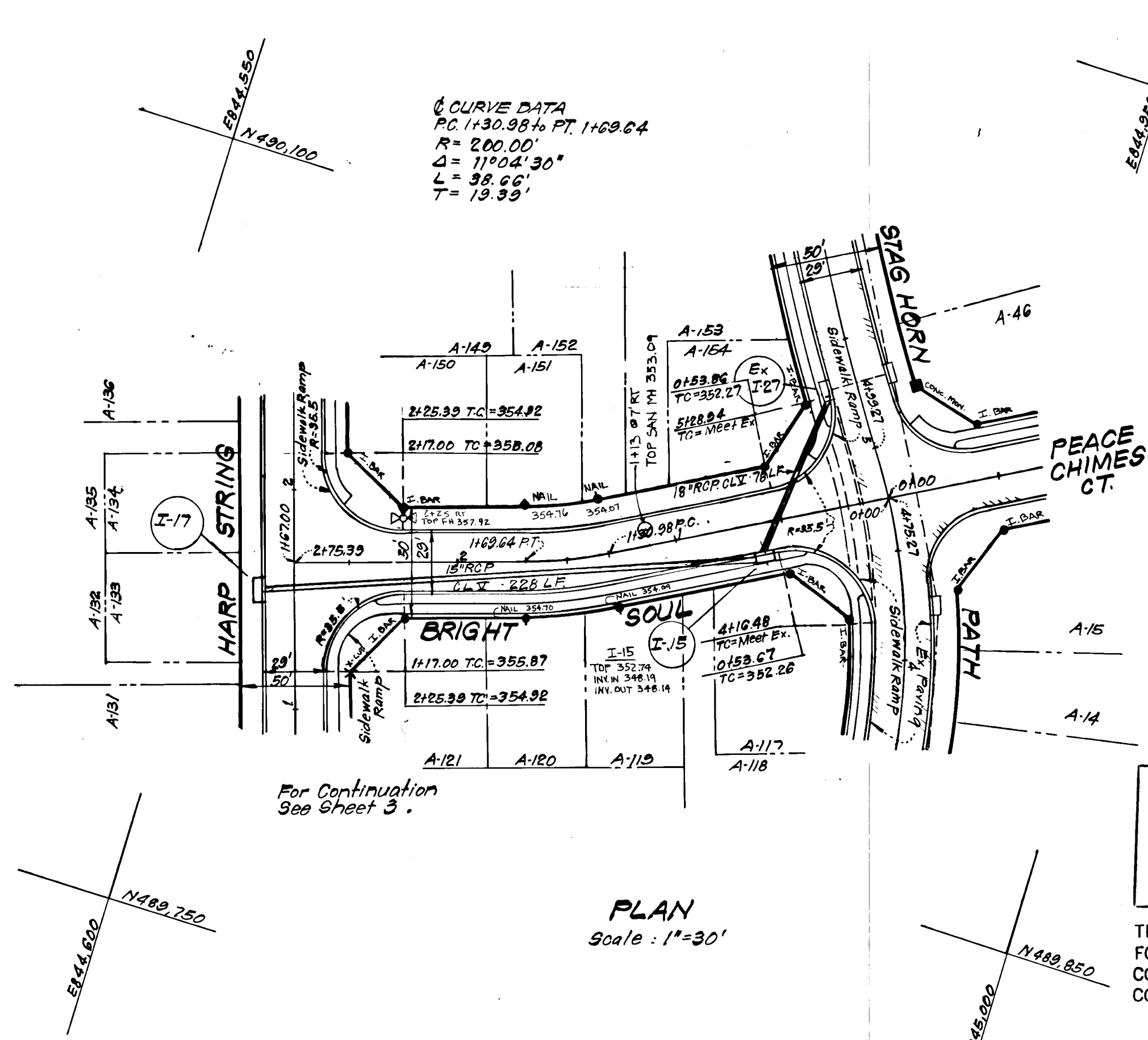


Reviewed for: Howard S.C.D.
 Name
 and meets Technical Requirements
A. Wagner 4/19/79
 Signature Date
 U.S. Soil Conservation Service

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

W.E. Woodford 4-19-79
 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 deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.
Walter E. Woodford 2/11/79
 Signature Date



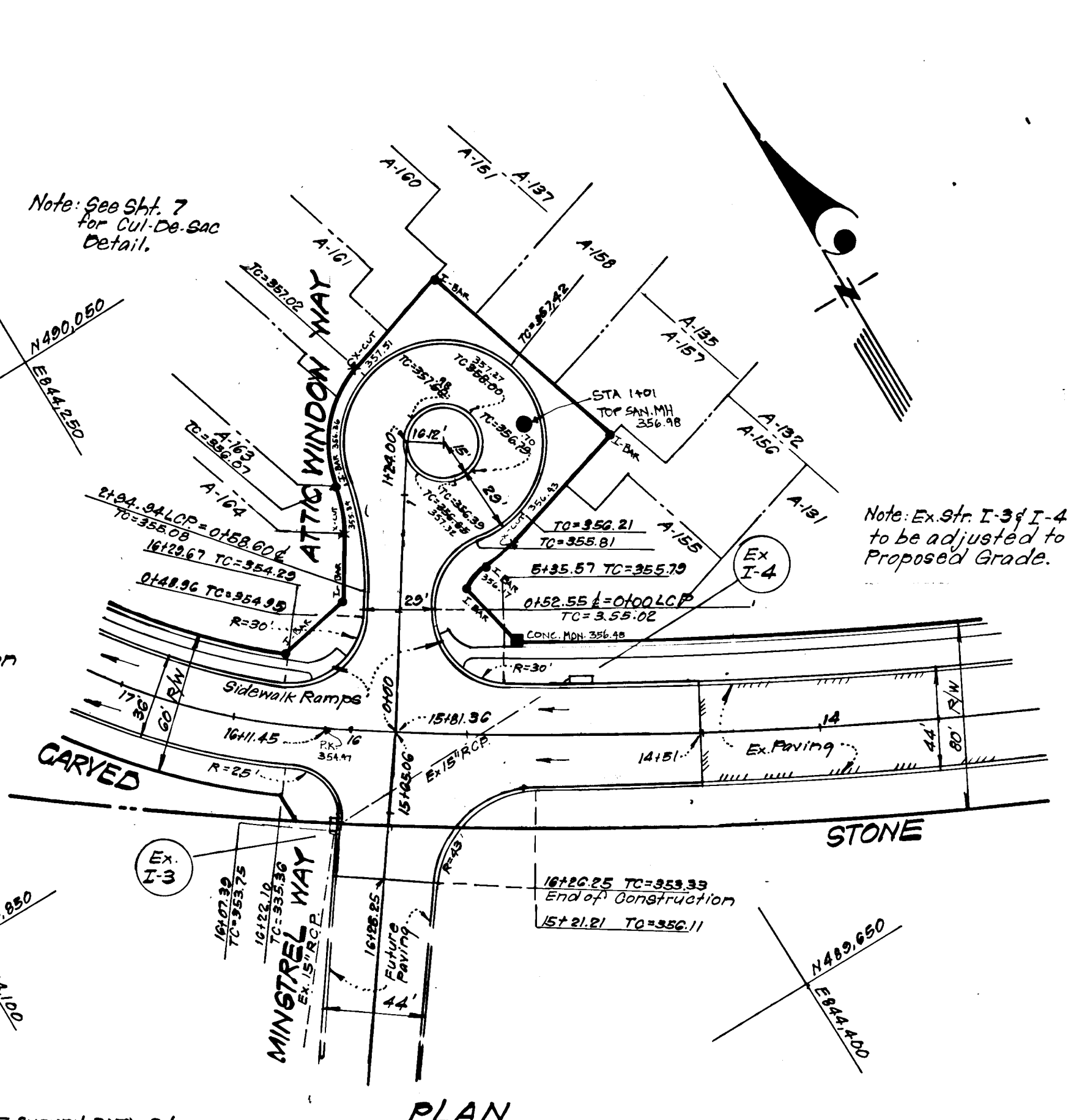
Reviewed for HOWARD S.C.D.
 Name
 and meets Technical Requirements
Walter E. Woodford 9/19/79
 Signature Date
 U.S. Soil Conservation Service

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

Approved _____ Date _____

For Continuation
 See Sheet 1.

AS-BUILT SURVEY DATA BY
 WALTER PARK, MD. R.L.S. # 5537,
 SIGNED, SEALED & DATED 8/11/80.



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.

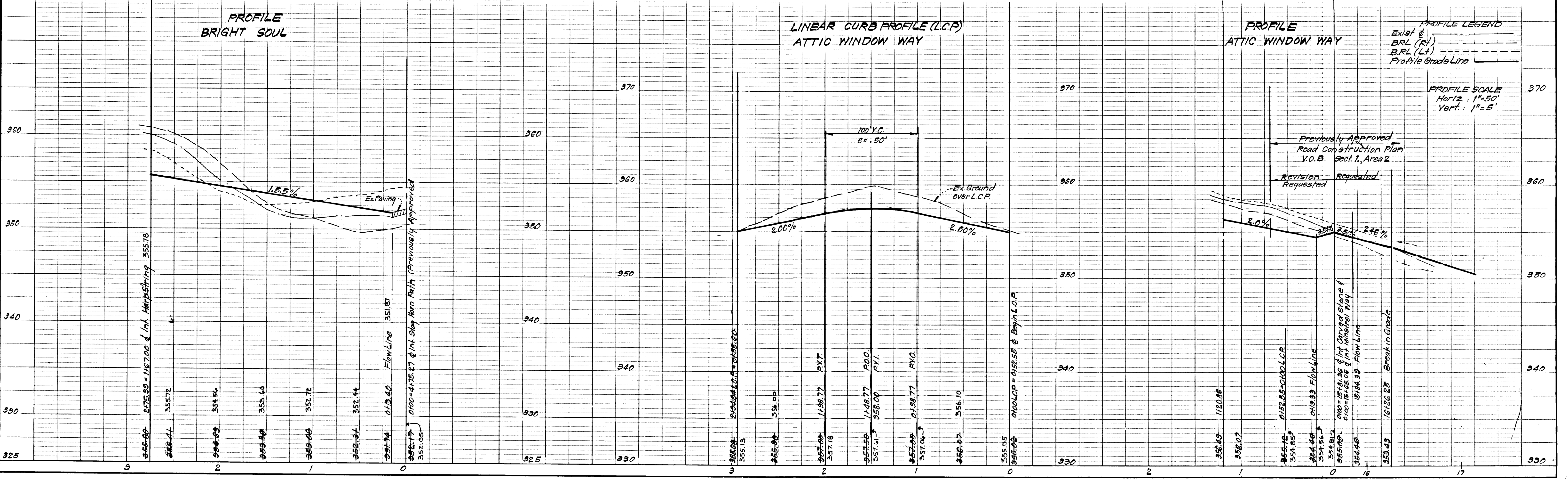
Walter E. Woodford 2/1/79
 Signature Date
 Walter E. Woodford

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 Conserva-
 tion District.

G. Nelson Clark 1-31-79
 Signature Date
 G. Nelson Clark

STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER

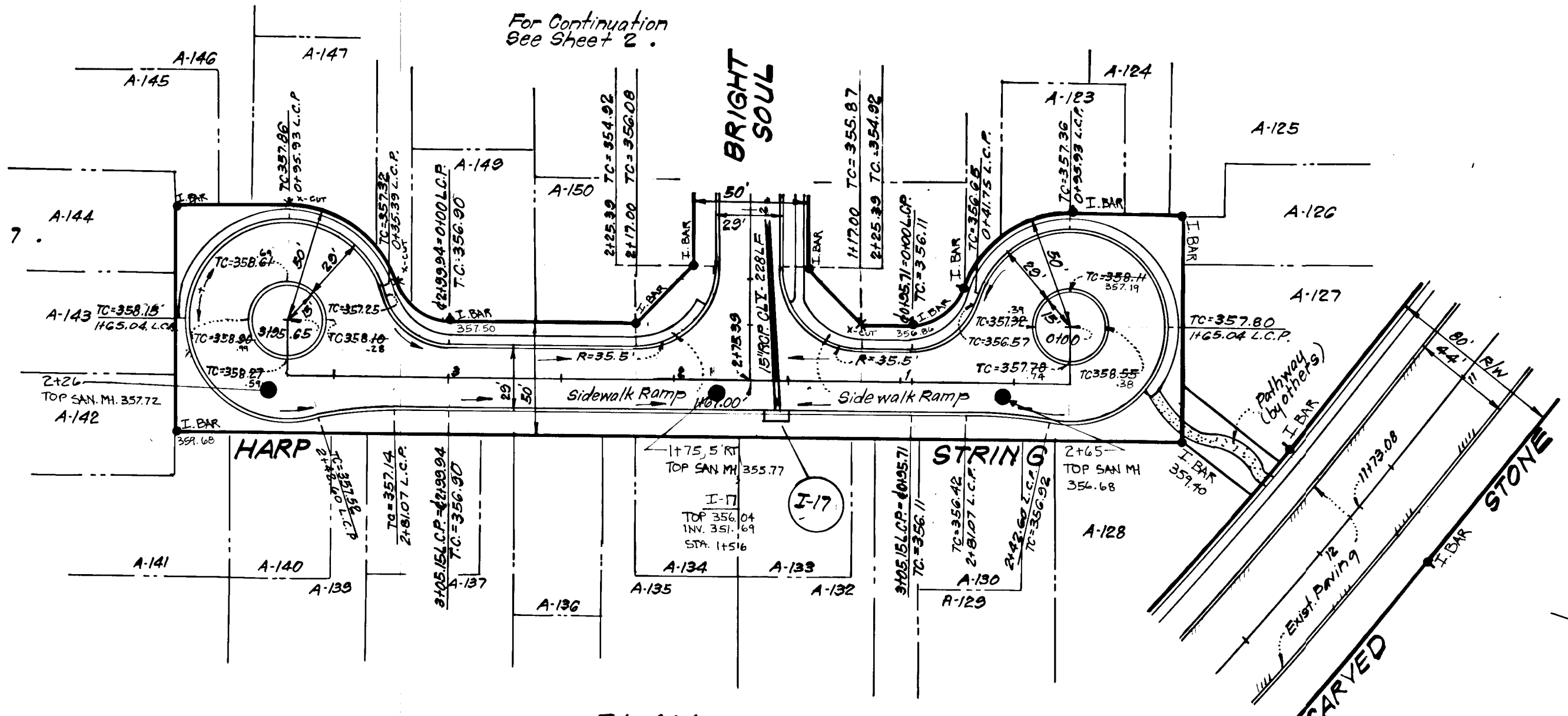
APPROVED: DEPARTMENT OF PUBLIC WORKS		5-10-79	
<u>W.D. Liberty</u>	CHIEF, Bureau of Engineering	Date	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		4-23-79	
<u>John W. Mullman</u>	CHIEF, Division of Land Development	Date	
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND • (301) 593-3400			
DESIGNED D.A.B.	ROAD CONSTRUCTION PLANS A RESUBDIVISION OF PART OF LOT A-116, BRIGHT SOUL & ATTIC WINDOW WAY	SCALE As Shown	
DRAWN K.I.W.	COLUMBIA	DRAWING 2 of 10	
CHECKED D.A.B.	VILLAGE OF OWEN BROWN SECTION 2, AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
DATE Dec., 1978	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21044	FILE NO. 1257-D	



AS-BUILT JULY, 1983

14889.350
E844.700

Note: For Cul. De Sag Detail, See Sht. 7



Reviewed for Howard S.C.D.
Name
and meets Technical Requirements
Walter E. Woodford
Signature Date
U.S. Soil Conservation Service

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

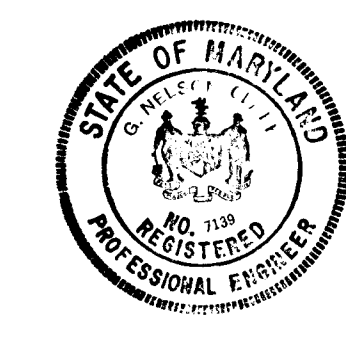
Walter E. Woodford
Approved Date
4-19-79

AS-BUILT SURVEY DATA BY WALTER PARK.
MD. R.L.S. #5535, SIGNED, SEALED & DATED 8/11/80.

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
G. Nelson Clark Date
1-31-79



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.

Walter E. Woodford
Signature Date
Walter E. Woodford 2/1/79

APPROVED: DEPARTMENT OF PUBLIC WORKS

W. O. Gilbert
Chief, Bureau of Engineering Date
5-10-79

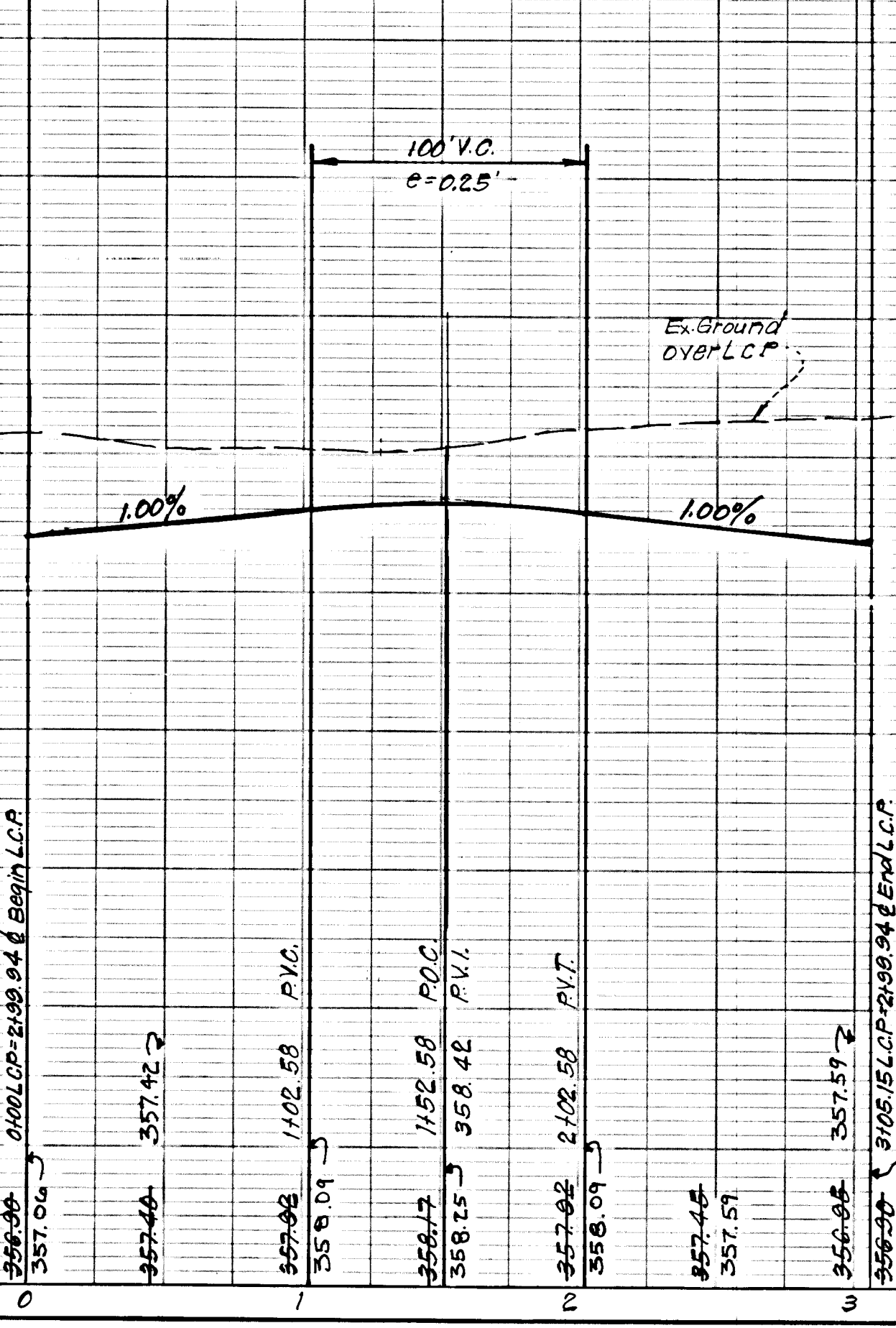
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

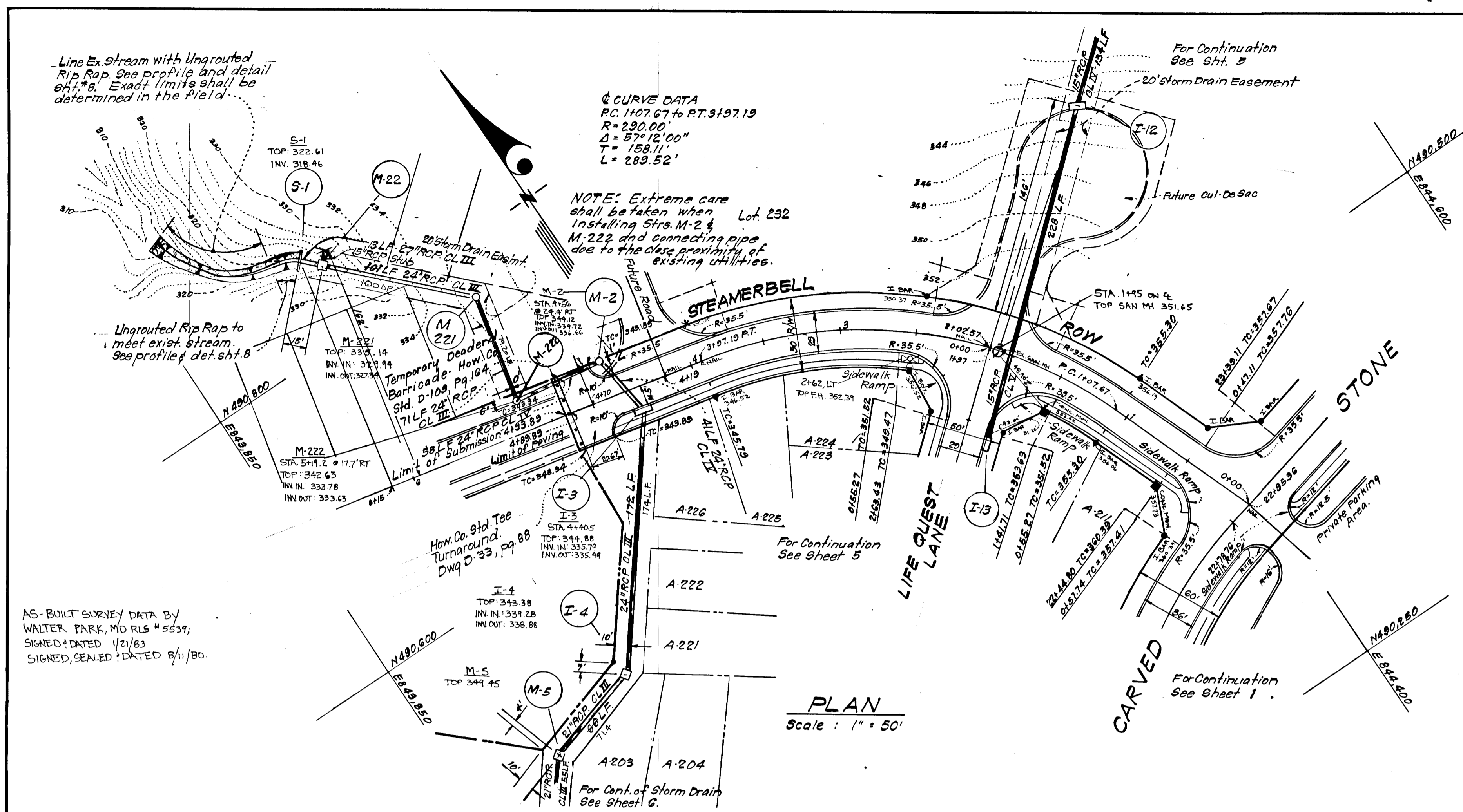
John W. Pinnerman
Chief, Division of Land Development Date
4-23-79

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

DESIGNED D.A.B.	ROAD CONSTRUCTION PLANS A RESUBDIVISION OF PART OF LOTA-116 HARP STRING	SCALE As Shown
DRAWN K.I.W.	COLUMBIA VILLAGE OF OWEN BROWN SECTION 2 AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 3 of 10
CHECKED D.A.B.	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21044	FILE NO. 1257-D
DATE Dec. 1978		

LINEAR CURB PROFILE (L.C.P.)





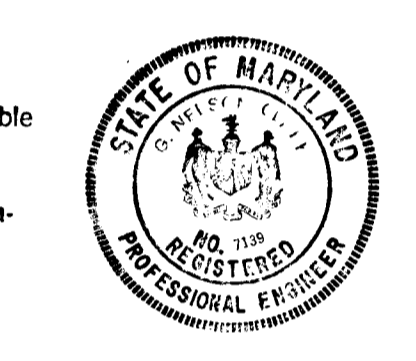
Reviewed for Howard S.C.D.
 Name
 and meets Technical Requirements
Wagner 4/19/79
 Signature Date
 U.S. Soil Conservation Service

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

W.E. Woodford 4-19-79
 Approved 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 1-31-79
 G. Nelson Clark Date

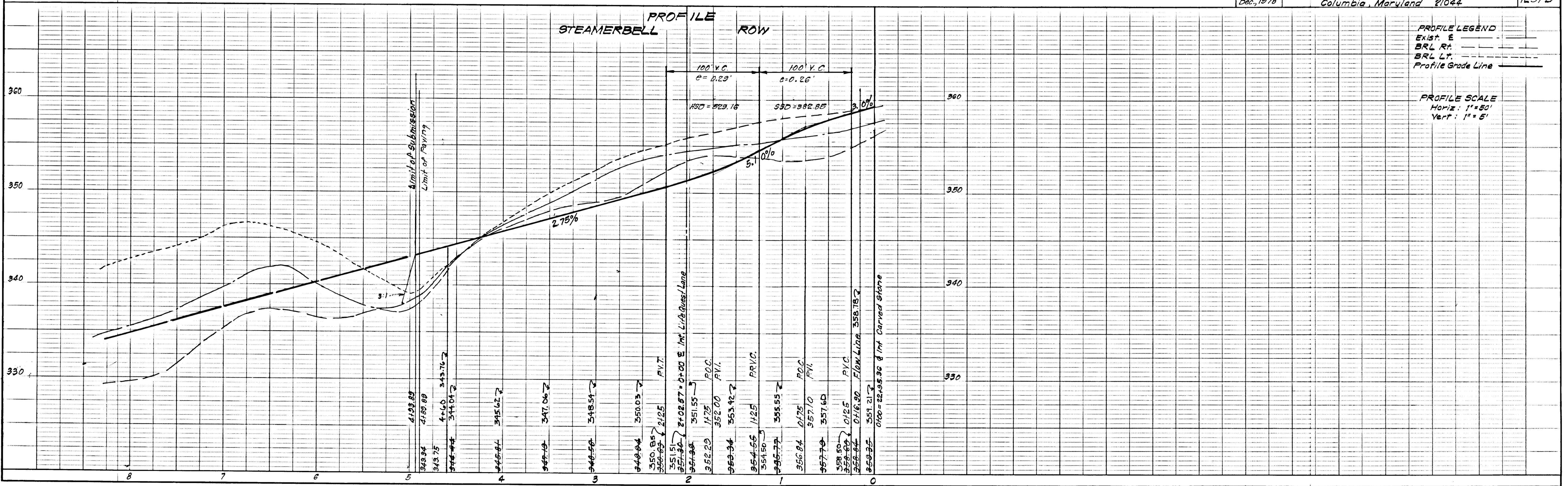


Date	Revision Block	Approved
4/19/80	Revised str. I-22 to read M-22 & revised length of pipe between I-12 & S-110 to agree with Profile	
8-1982	Revised S.D. alignment between M-22 & I-3, Str. Schedule, Pipe Schedule, etc.	

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.

Walter E. Woodford 2/1/79
 Signature Date
 Walter E. Woodford
 APPROVED: DEPARTMENT OF PUBLIC WORKS
W.O. West 5-10-79
 CHIEF, Bureau of Engineering Date
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Arthur M. Mullan 4-23-79
 CHIEF, Division of Land Development Date

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND • (301) 593-5400	
DESIGNED D.A.B.	ROAD CONSTRUCTION PLANS A RESUBDIVISION OF PART OF LOT A-116 STEAMERBELL ROW COLUMBIA VILLAGE OF OWEN BROWN SECTION 2 AREA 1 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DRAWN	SCALE As Shown DRAWING 4 of 10
CHECKED K.I.W.	
D.A.B.	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21044
DATE Dec., 1978	FILE NO. 1257-D



Note:
For Cul-De-Sac
Detail, See Sht 7.

LEGEND:
7" Reverse Curb & gutter
Modified Curb & gutter

Reviewed for... Howard S.C.D.
Name
and meets Technical Requirements
W. Wagner Date 4.19.79
Signature Date
U.S. Soil Conservation Service

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

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.

Walter E. Wood 2/1/79
Signature Date
Walter E. Wood
APPROVED: DEPARTMENT OF PUBLIC WORKS

W. O. Pickett 5-10-79
Signature Date
W. O. Pickett
CHIEF, Bureau of Engineering

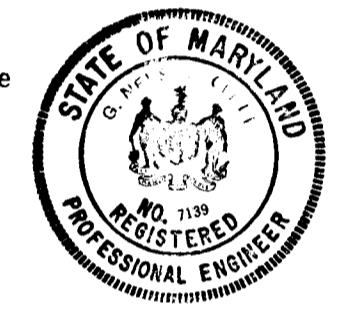
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Murrain 4-23-79
Signature Date
John W. Murrain
CHIEF, Division of Land Development

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

DESIGNED	D.A.B.	ROAD CONSTRUCTION PLANS A RESUBDIVISION OF LOT A-116 LIFE QUEST LANE	SCALE	As Shown
DRAWN	K.I.W.	COLUMBIA	DRAWING	5 of 10
CHECKED	D.A.B.	VILLAGE OF OWEN BROWN SECTION 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO.	1257-D
DATE	Dec, 1978	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21044		

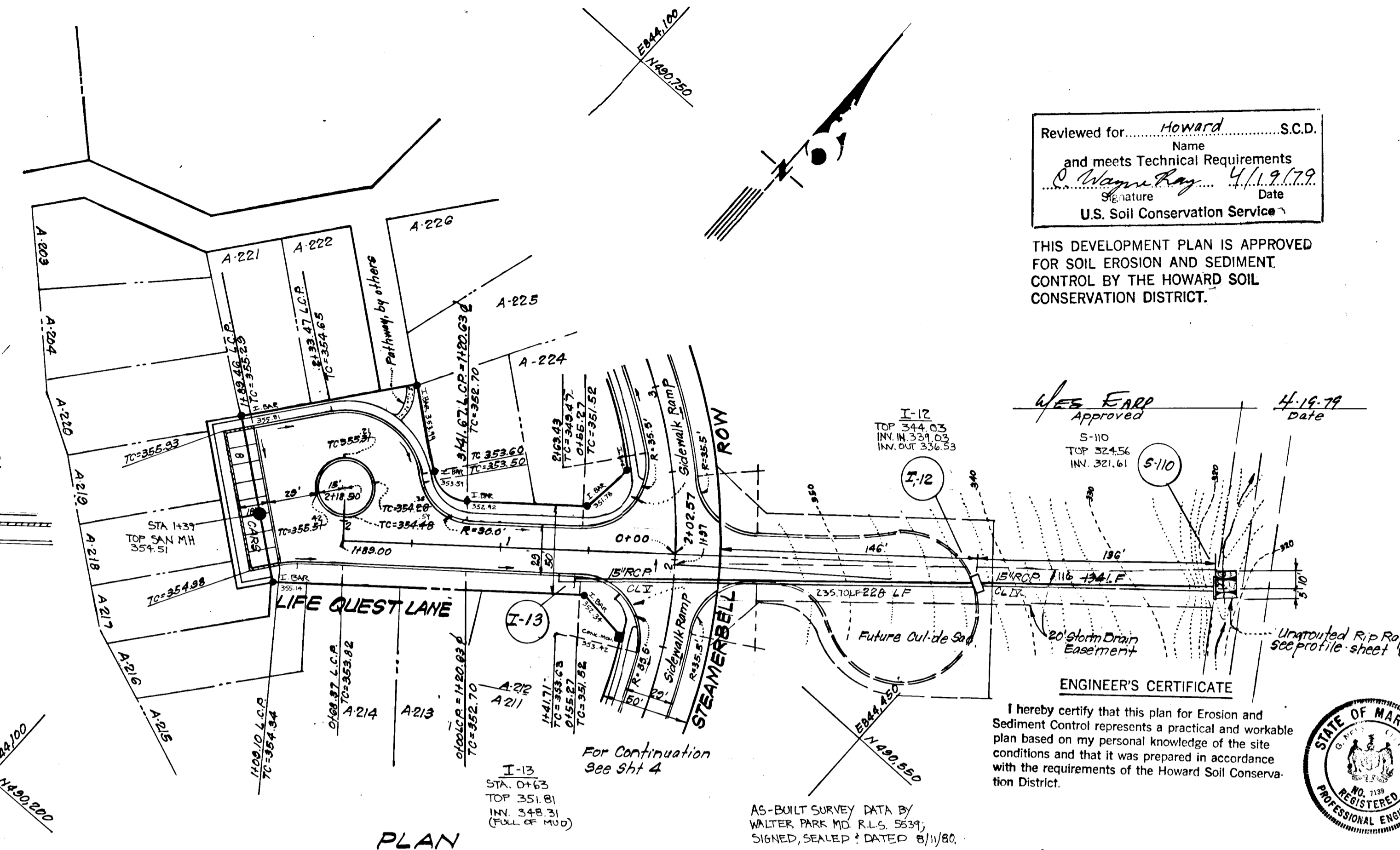
W.E. EARP 4-18-79
Approved Date
W.E. EARP
S-110
TOP 324.56
INT. 321.61
5-110

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 Conserva-
tion District.



W. Nelson Clark 1-31-79
Signature Date
W. Nelson Clark
8 Nelson Clark

AS-BUILT SURVEY DATA BY
WALTER PARK MD R.L.S. 5639,
SIGNED, SEALED & DATED 8/11/80.



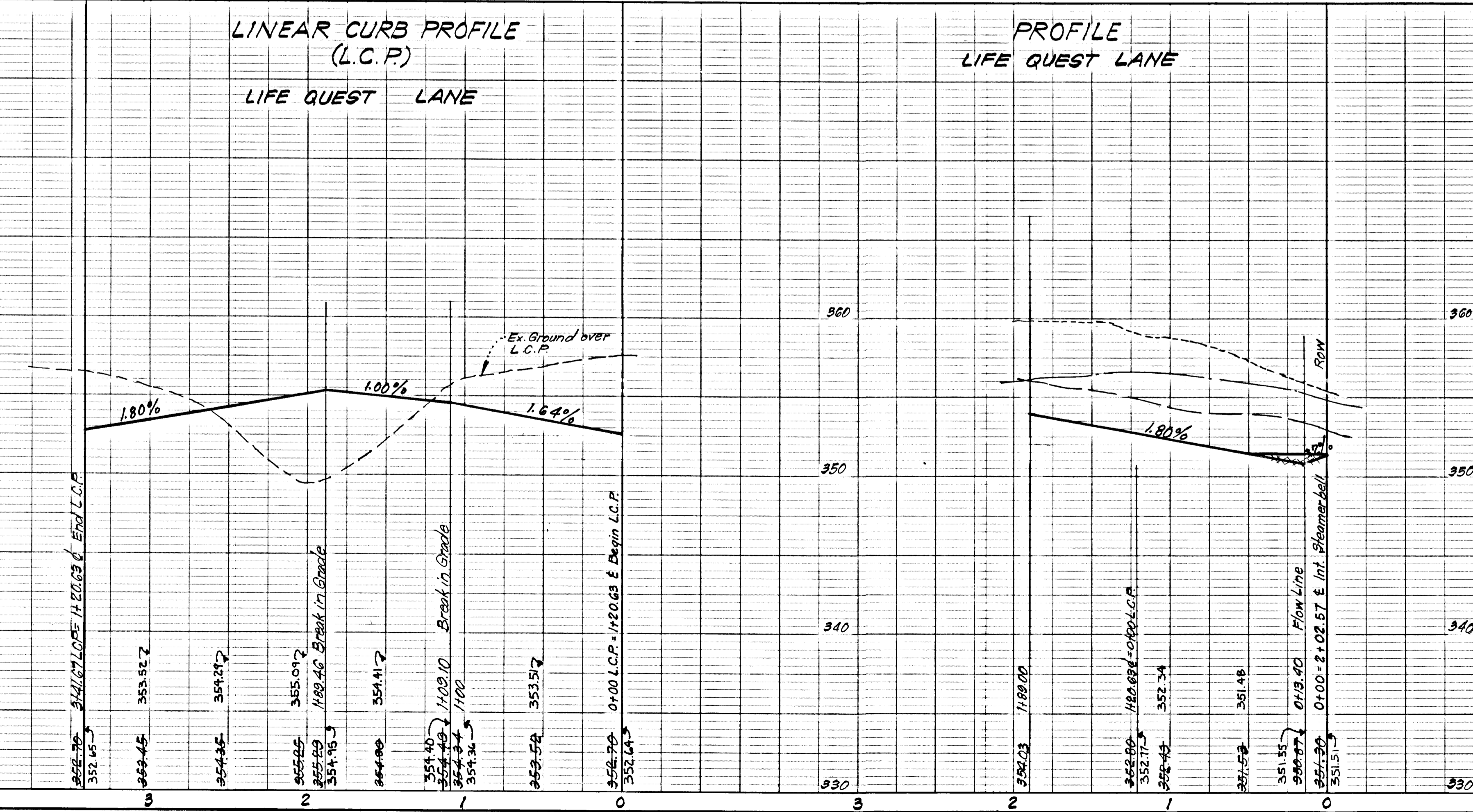
PLAN
Scale: 1"=50'

LINEAR CURB PROFILE
(L.C.P.)
LIFE QUEST LANE

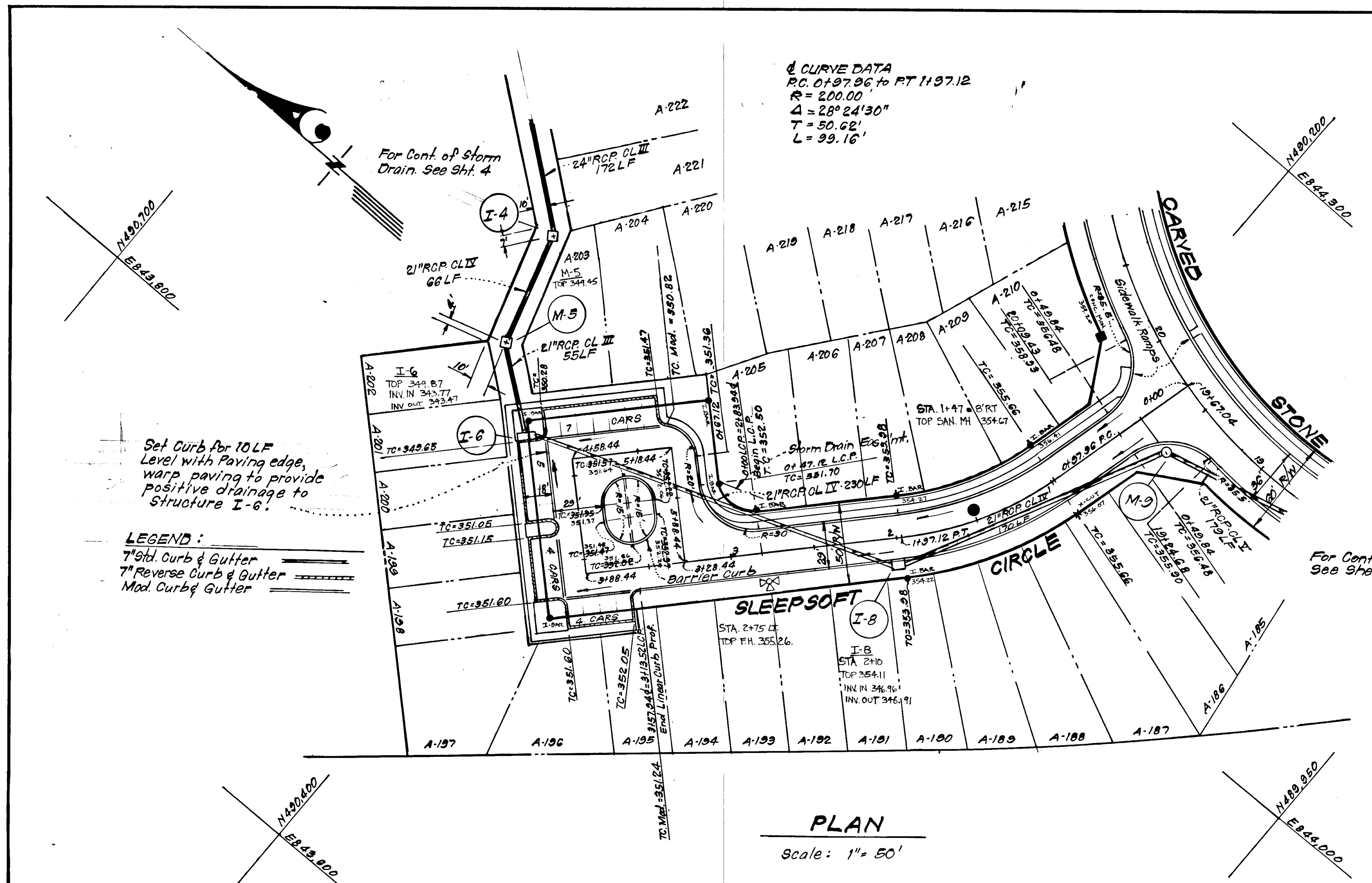
PROFILE
LIFE QUEST LANE

PROFILE LEGEND:
1. Exist &
2. BRL (RT)
3. BRL (LT)
Profile Grade Line

PROFILE SCALE
Horiz. 1"=50'
Vert. 1"=5'



AS-BUILT AUG. 1983



Reviewed for Howard Name
 and meets Technical Requirements
Walter E. Woodford Signature
 4/19/79 Date
 U.S. Soil Conservation Service

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

Walter E. Woodford Approved
 4/19/79 Date

DEVELOPER'S CERTIFICATE

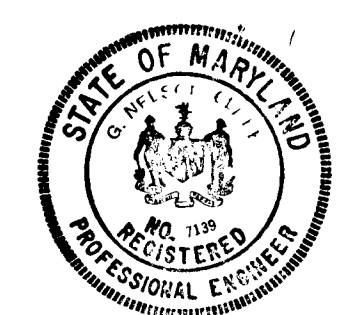
I certify that all development and/or construction
 will be done according to this plan of development
 and plan for Erosion and Sediment Control, and I will
 authorize periodic on-site inspection by the Howard
 Soil Conservation District or their authorized agents
 as are deemed necessary. Deviation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

Walter E. Woodford Signature
 2/1/79 Date
 APPROVED: DEPARTMENT OF PUBLIC WORKS
Walter E. Woodford Chief, Bureau of Engineering 5-10-79 Date
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
William W. Nusselman Chief, Division of Land Development 4-23-79 Date

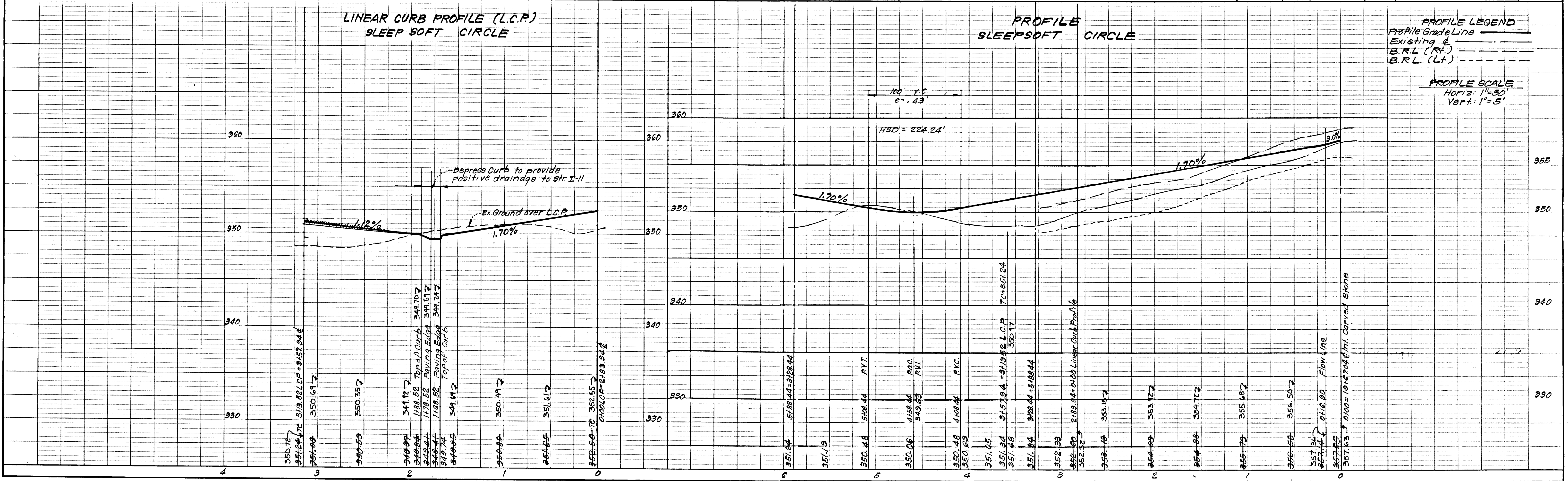
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND • (301) 593-3400		
DESIGNED D.A.B.	ROAD CONSTRUCTION PLANS A RESUBDIVISION OF LOT A-116 SLEEP SOFT CIRCLE	SCALE As Shown
DRAWN K.I.W.	COLUMBIA VILLAGE OF OWEN BROWN SECTION 2 AREA 1 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 6 OF 10
CHECKED D.A.B.	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21044	FILE NO. 1257-D
DATE Dec, 1978		

ENGINEER'S CERTIFICATE

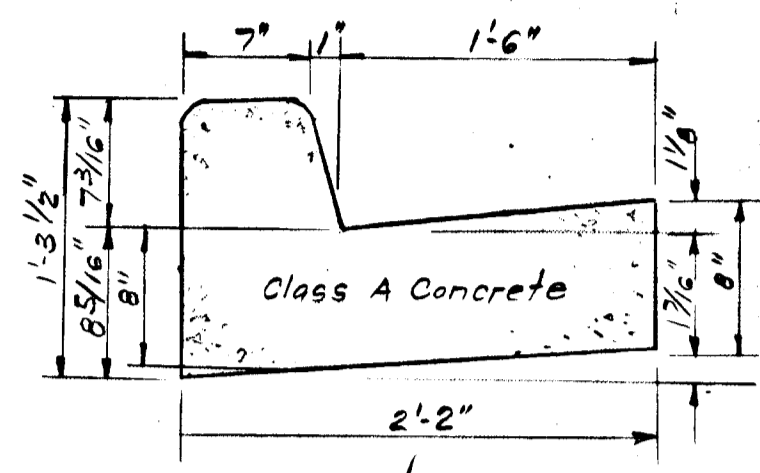
I hereby certify that this plan for Erosion and
 Sediment Control represents a practical and workable
 plan based on my personal knowledge of the site
 conditions and that it was prepared in accordance
 with the requirements of the Howard Soil Conserva-
 tion District.



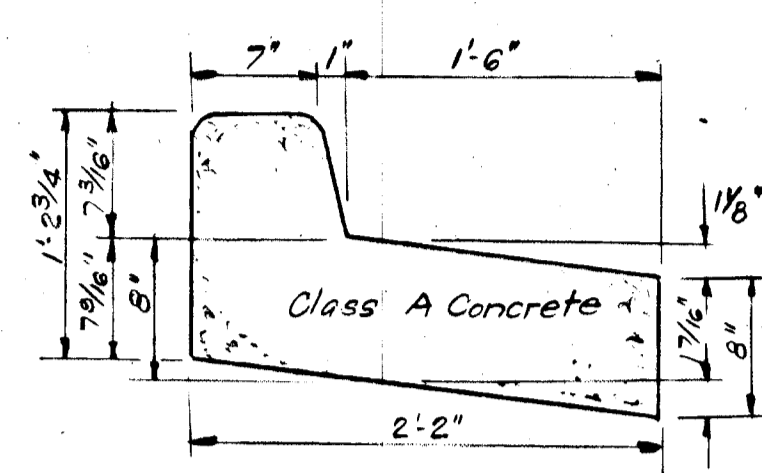
Walter E. Woodford Approved
 1-31-79 Date



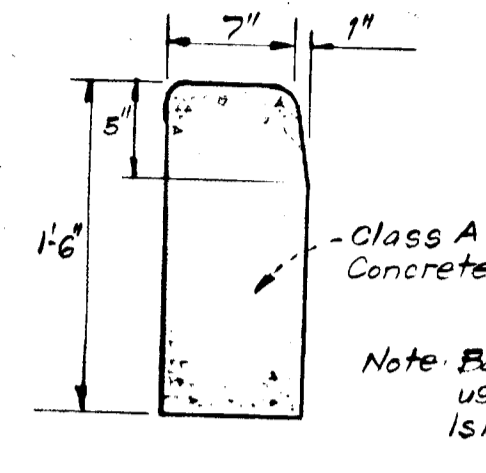
AS-BUILT AUG. 1985



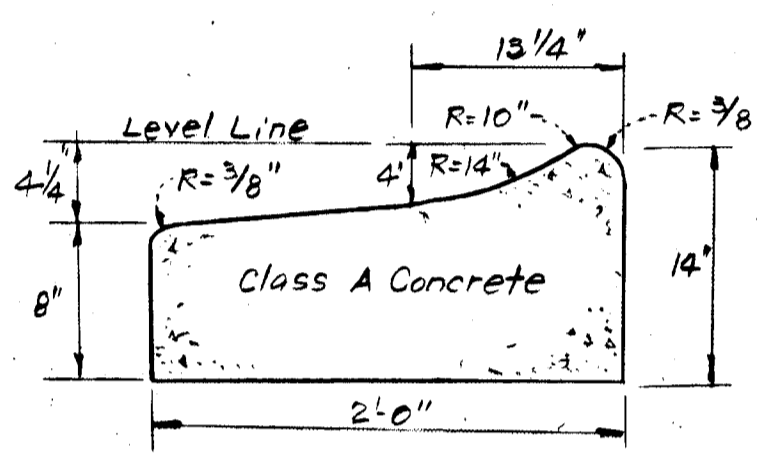
STANDARD 7" COMBINATION CURB & GUTTER
No Scale



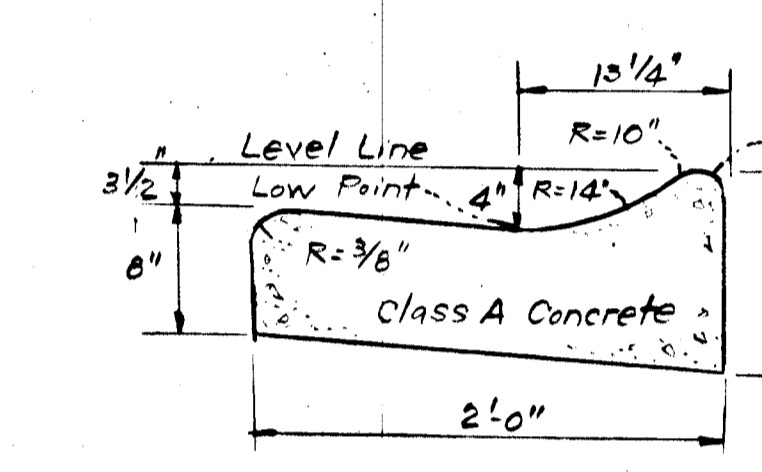
REVERSE 7" COMBINATION CURB & GUTTER
No Scale



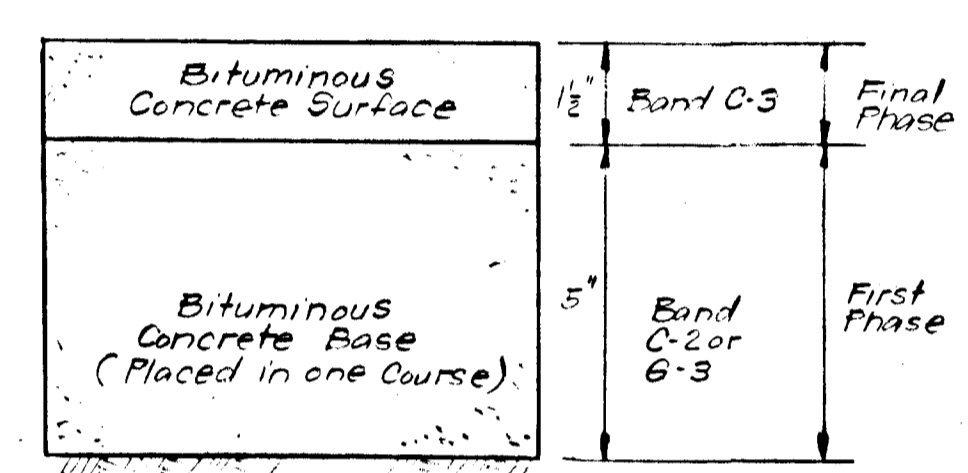
BARRIER CURB
No Scale



MODIFIED COMBINATION CURB & GUTTER (REVERSED)
No Scale



MODIFIED COMBINATION CURB & GUTTER
No Scale

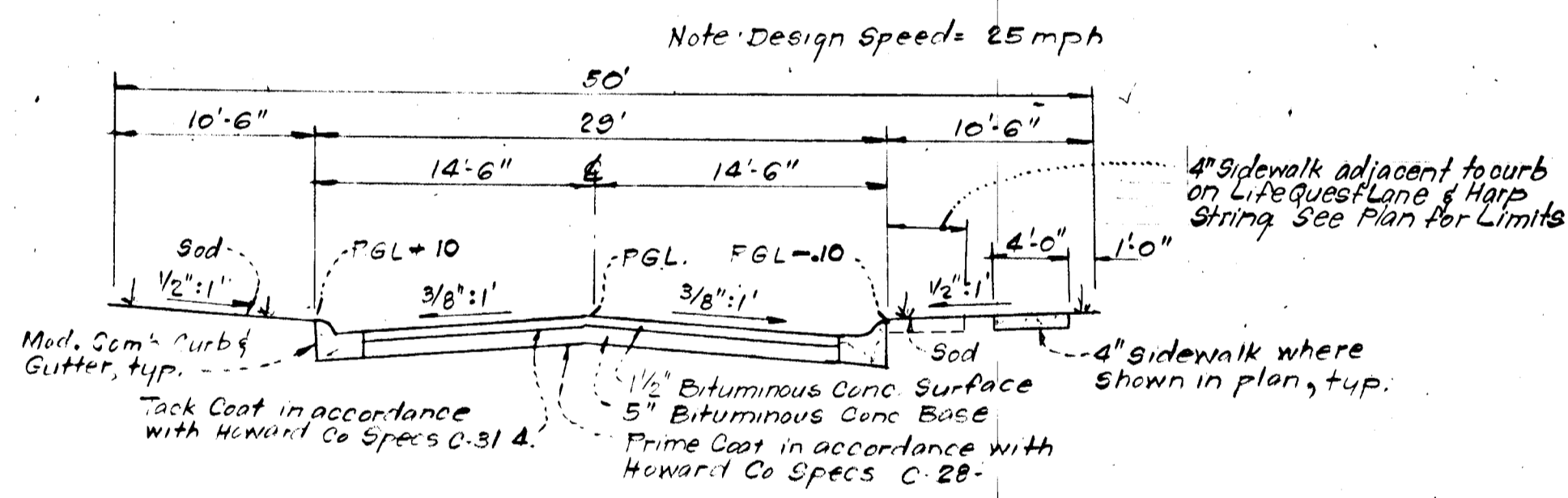


Clearing and Grading
Subgrade
Base Course
Surface Course

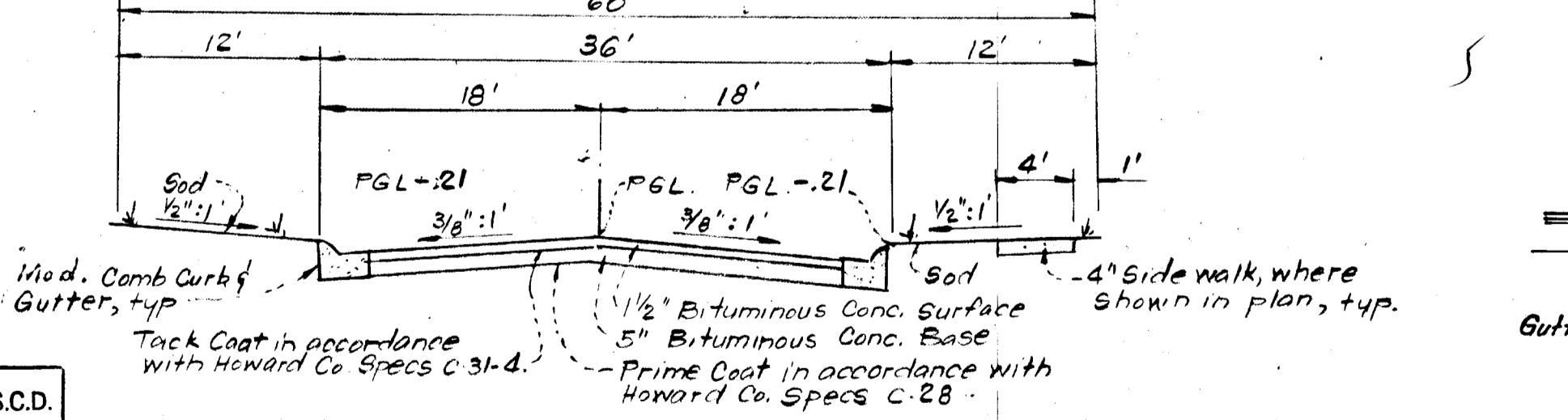
Article C-1
Article C-2
Article C-31 or C-33
Article C-31

To be constructed in accordance with the Howard County Road Construction Code and Specifications.

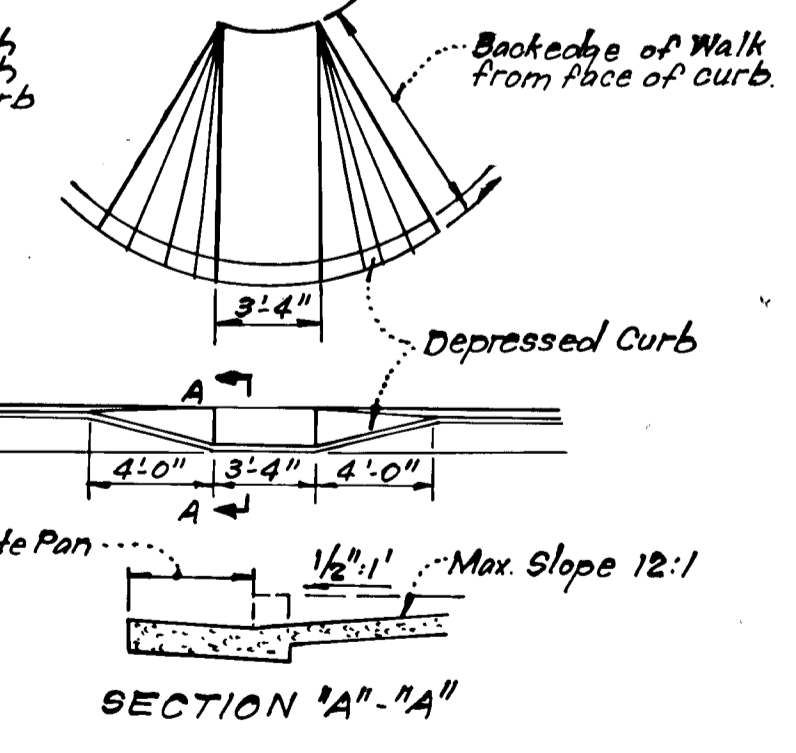
PAVING SECTION FOR PUBLIC ROADS AND ENTRANCES TO PUBLIC ROADS
No Scale



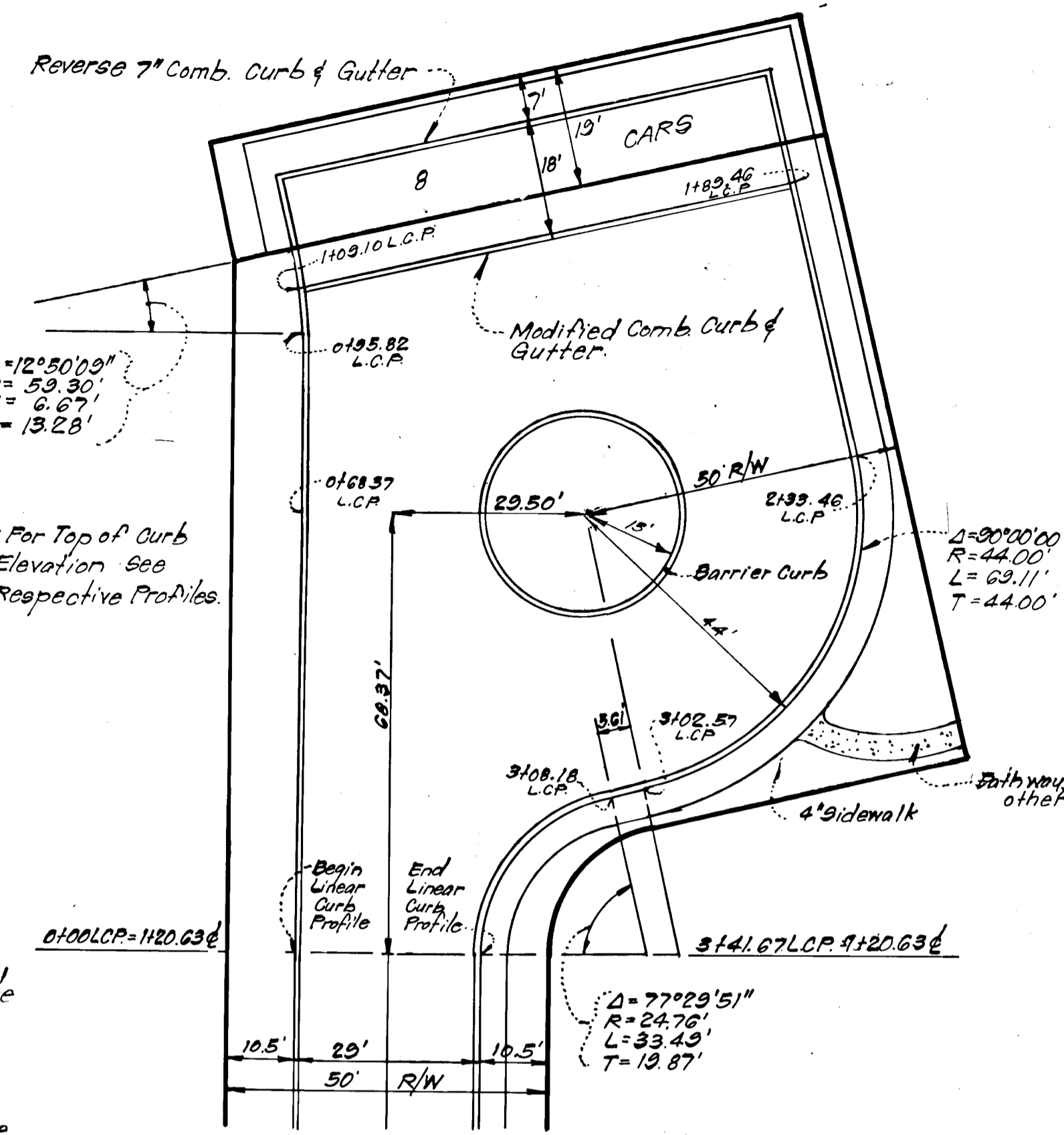
Typical Paving Section
BRIGHT SOUL
HARP STRING
ATTIC WINDOW WAY
SLEEPERS CIRCLE
STEAMERBELL ROW
LIFE QUEST LANE



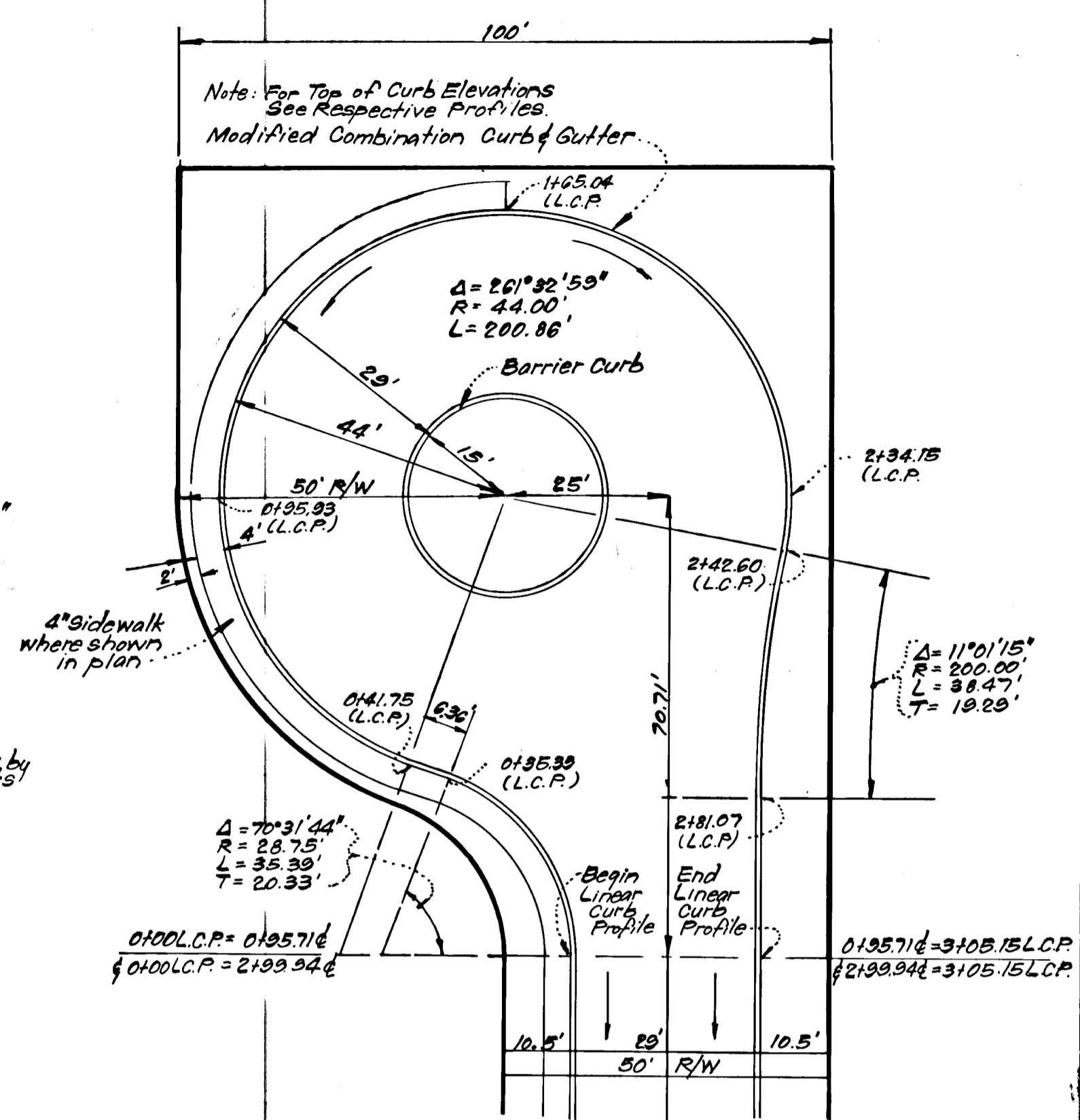
Typical Paving Section
CARVED STONE



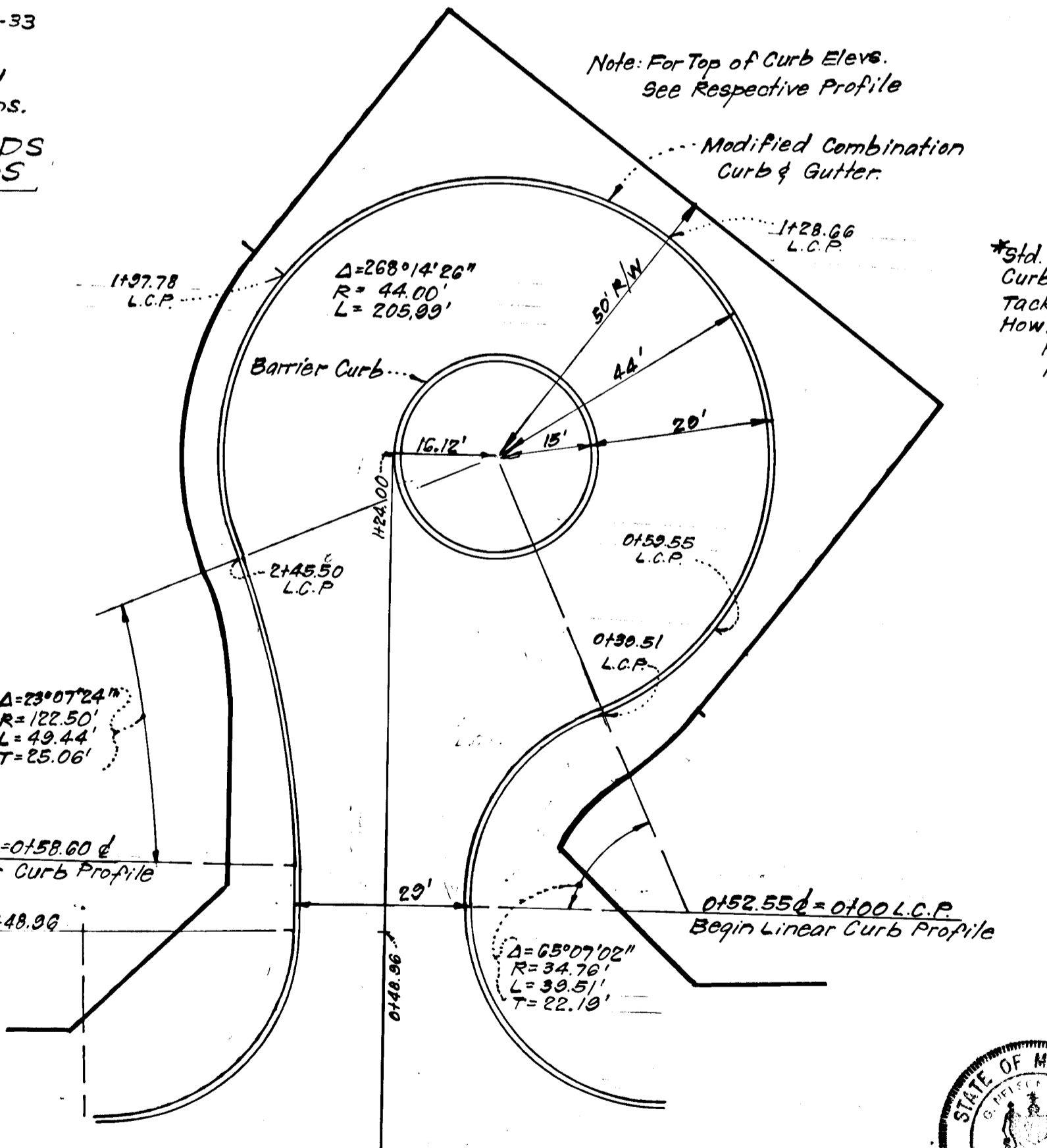
SECTION "A"-"A"
SIDEWALK RAMP DETAILS
No Scale



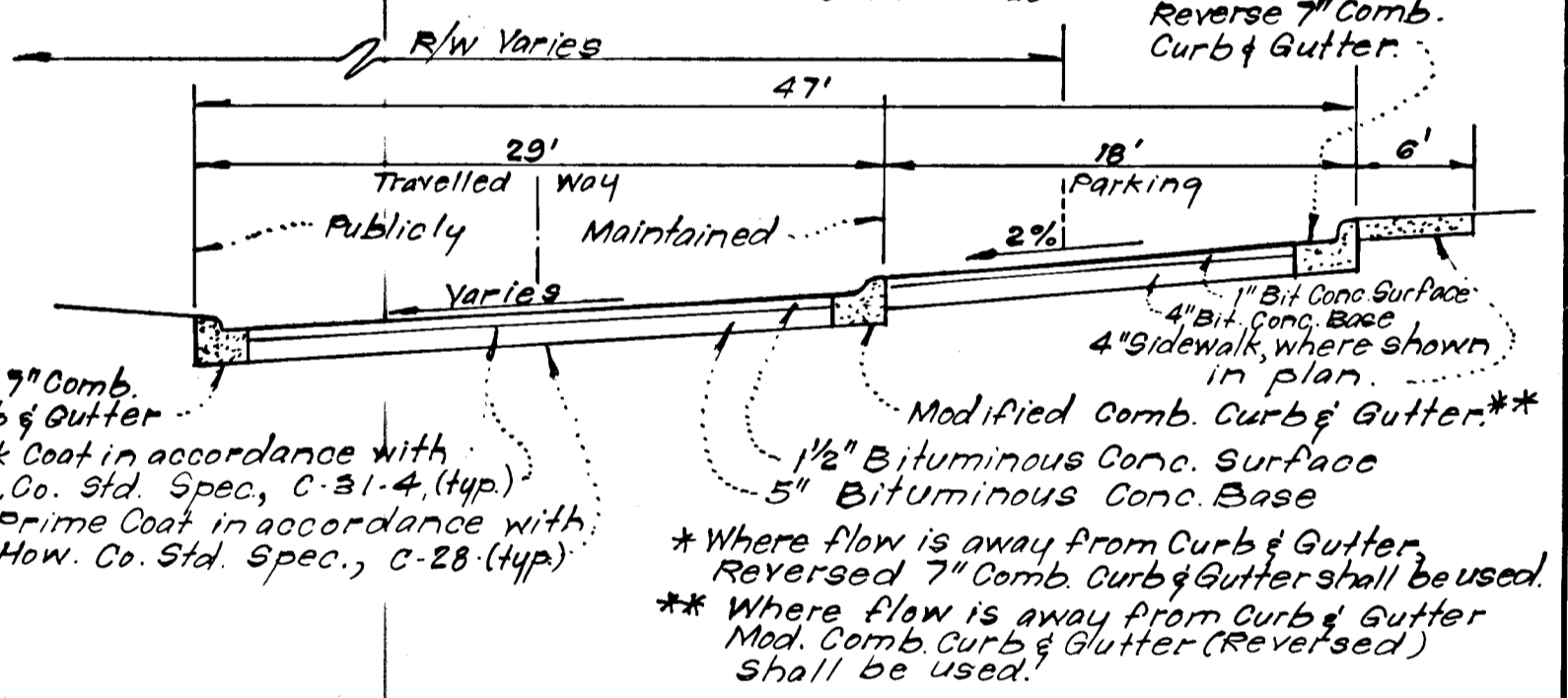
CUL-DE-SAC DETAIL LIFE QUEST LANE
Scale: 1"=20'



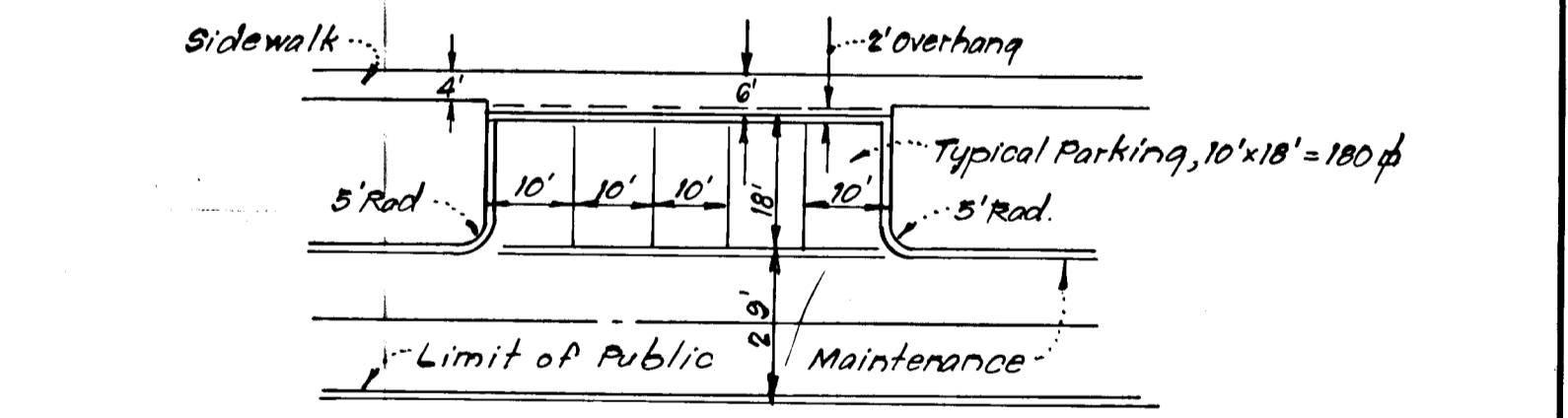
CUL-DE-SAC DETAIL HARP STRING
(BOTH ENDS)
Scale: 1"=20'



CUL-DE-SAC DETAIL ATTIC WINDOW WAY
Scale: 1"=20'



TYPICAL PAVING SECTION - PUBLIC DRIVE AND PRIVATE PARKING
No Scale



TYPICAL PARKING ADJACENT TO PUBLIC ROADS
No Scale

Reviewed for: Howard S.C.D.
and meets Technical Requirements
Signature: [Signature] Date: 4-19-79
U.S. Soil Conservation Service

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

Approved: [Signature] Date: 4/19/79

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.

Signature: [Signature] Date: 4/1/79
Walter E. Woodford

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.

Signature: [Signature] Date: 1-31-79
Nelson Clark



APPROVED: DEPARTMENT OF PUBLIC WORKS
[Signature] Chief Bureau of Engineering
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] Chief Division of Land Development

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS

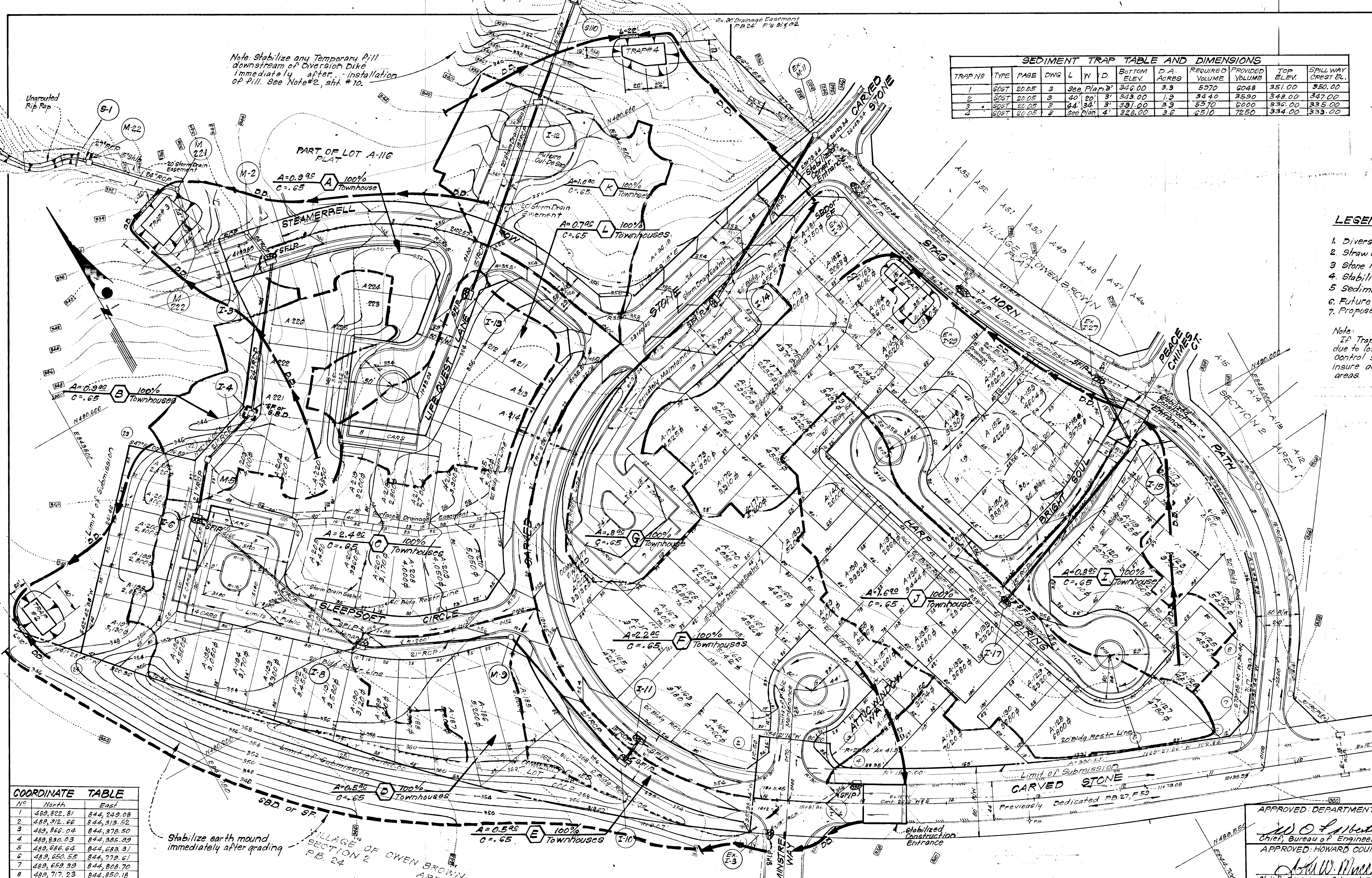
DESIGNED: D.A.B.
DRAWN: K.I.W.
CHECKED: D.A.B.
DATE: Dec, 1978

ROAD CONSTRUCTION PLANS
A RESUBDIVISION OF LOT A-116
PAVING DETAILS

COLUMBIA
VILLAGE OF OWEN BROWN
SECTION 2
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

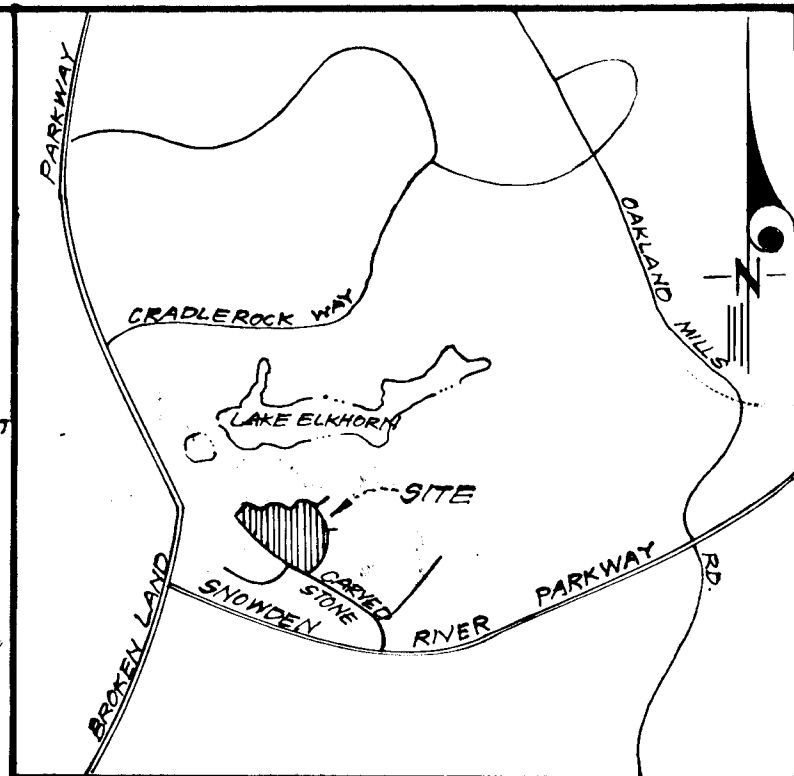
FOR: HOWARD RESEARCH & DEVELOPMENT CORP.
The Rouse Company Building
Columbia, Maryland 21044

SCALE: As Shown
DRAWING: 7 of 10
JOB NO.:
FILE NO.: 1257-D



Note: Stabilize any Temporary Pile downstream of Diversion Dike immediately after installation of Pile. See Note #2, sht. # 10.

TRAP NO	TYPE	PAGE	ONG	L	W	D	BOTTOM ELEV.	D.A. ACRES	REQUIRED VOLUME	PROVIDED VOLUME	TOP ELEV.	SPILLWAY CREST EL.
1	SIST	20.05	3	See Plan 3'	34.00	3.3	5370	6048	351.00	350.00		
2	SIST	20.05	3	40' 20'	3'	343.00	1.9	5440	3590	348.00	347.00	
3	SIST	20.05	3	44' 34'	3'	331.00	3.3	5370	6000	336.00	335.00	
4	SIST	20.05	3	See Plan 4'	326.00	3.6	6510	7850	334.00	333.00		



- LEGEND:**
1. Diversion Dike $\overline{\text{D.D.}}$
 2. Straw Bale Dike or Silt Fence $\overline{\text{S.B.D. or S.F.}}$
 3. Stone Filter Inlet Protection $\overline{\text{S.F.I.P.}}$
 4. Stabilized Construction Entrance $\overline{\text{S.C.E.}}$
 5. Sediment Trap $\overline{\text{S.T.}}$
 6. Future Grading $\overline{\text{F.G.}}$
 7. Proposed Grading $\overline{\text{P.G.}}$

Note: If Trap No's 2, 3 & 4 have to be removed due to lot grading, additional sediment control shall be provided downstream to insure adequate protection for all disturbed areas.

No	North	East
1	489,822.81	844,249.08
2	489,812.68	844,313.52
3	489,866.04	844,378.50
4	489,830.03	844,385.39
5	489,866.64	844,683.31
6	489,850.55	844,779.61
7	489,859.39	844,808.70
8	489,717.23	844,850.18
9	490,039.66	844,852.94
10	490,372.70	844,701.96
11	490,305.89	844,696.10
12	490,414.14	844,665.76
13	490,472.32	844,651.13
14	490,417.50	844,493.07
15	490,432.71	844,403.66
16	490,488.37	844,382.09
17	490,689.27	844,144.50
18	490,728.74	844,049.78
19	490,648.97	844,037.70
20	490,555.22	844,035.17
21	490,521.75	843,979.00
22	490,498.50	843,907.00
23	490,550.00	843,850.00
24	490,372.58	843,686.23
25	490,132.55	843,698.40

Stabilize earth mound immediately after grading

Reviewed for... **Howard** S.C.D.
Name
and meets Technical Requirements
P. Wayne 4/19/79
Signature Date
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

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.
E. H. Clark 4-19-79
Signature Date
G. Nelson Clark



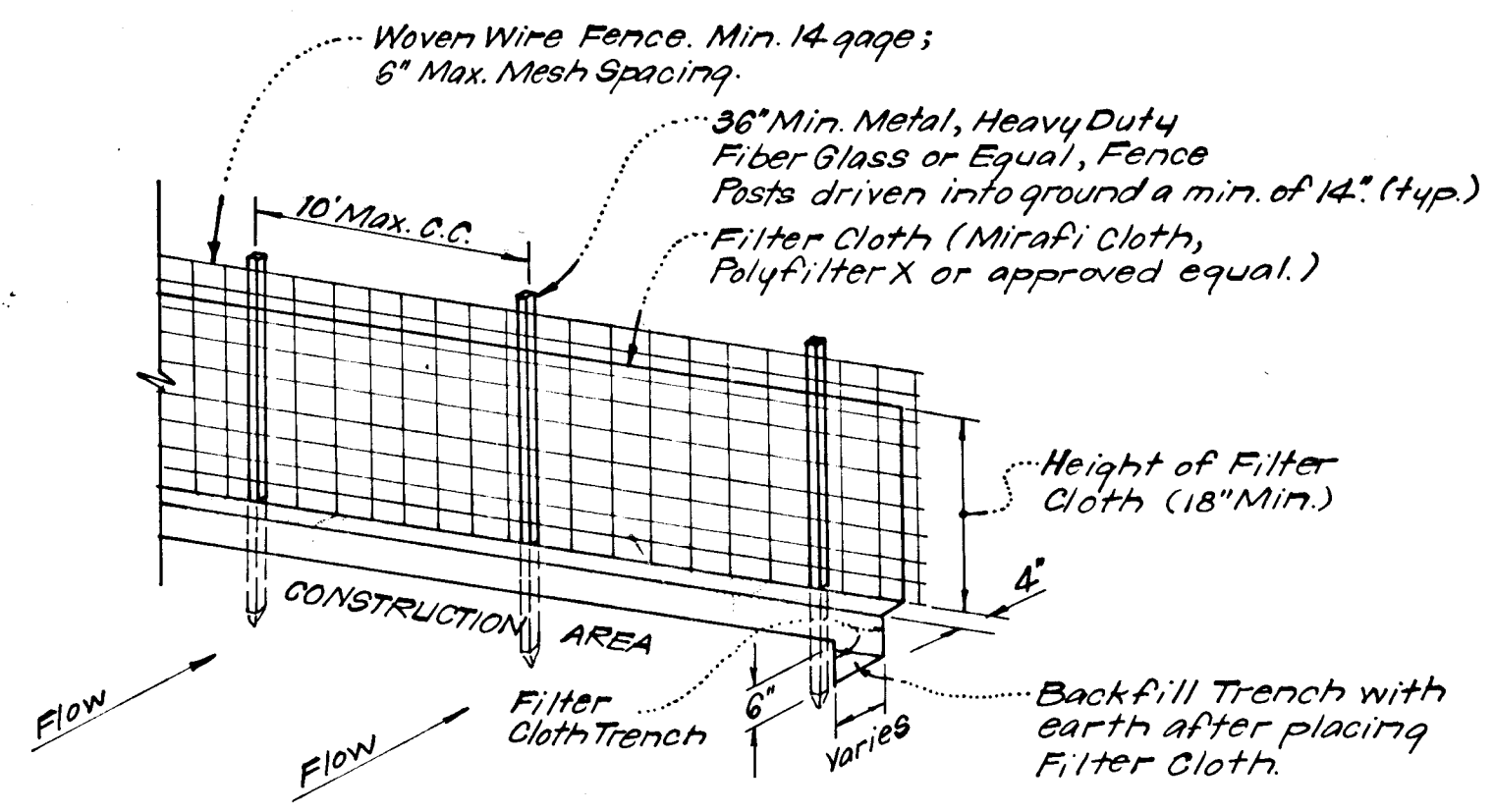
APPROVED: DEPARTMENT OF PUBLIC WORKS
W. O. Lambert 5-10-79
Chief, Bureau of Engineering Date
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Macdonald 4-23-79
Chief, Division of Land Development Date

CLARK • FINEPROCK & 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 & DRAINAGE AREA MAP, A RESUBDIVISION OF LOT A-116	SCALE	1"=50'
DRAWN	K.I.W.	COLUMBIA VILLAGE OF OWEN BROWN AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING	9 of 10
CHECKED	D.A.B.		JOB NO.	
DATE	Dec. 1978	FOR: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Company Building Columbia, Maryland 21044	FILE NO.	1257-D

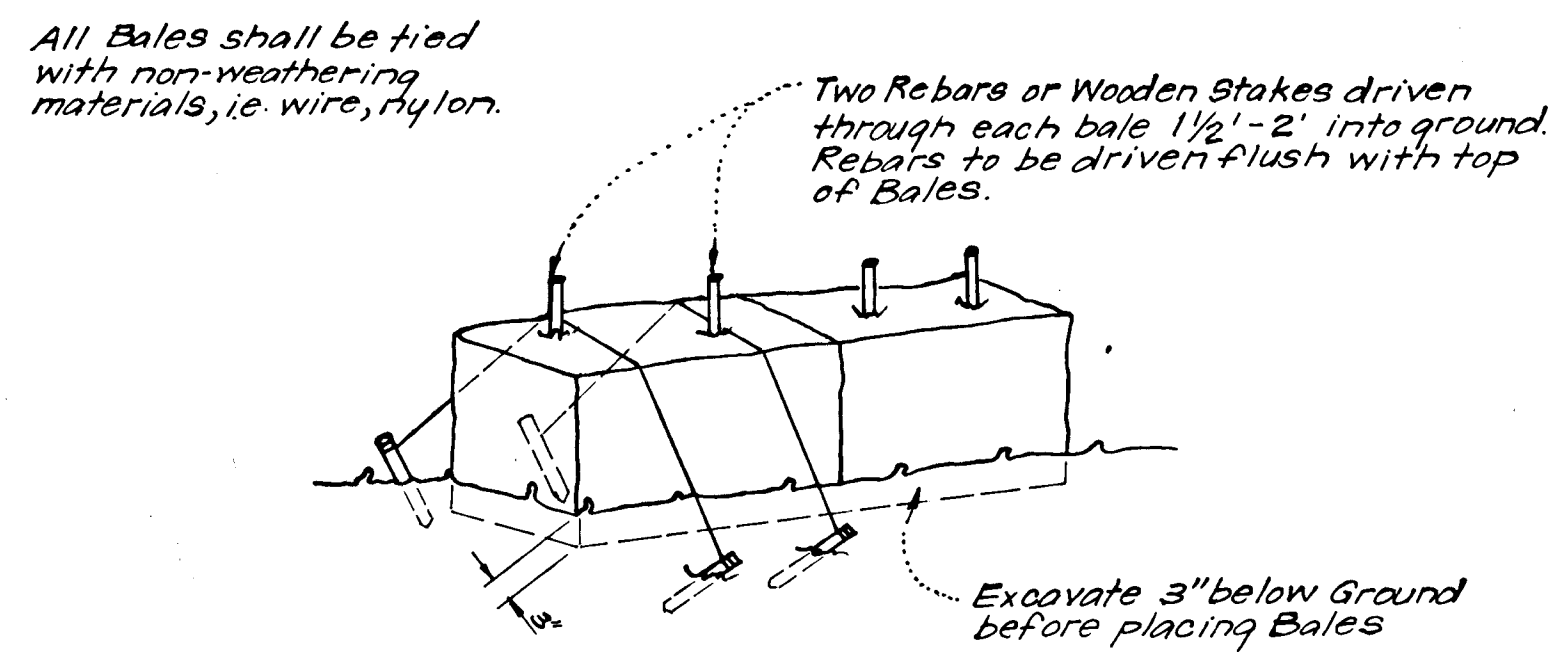
GENERAL NOTES

- 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 sq. ft.
- 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 sq. ft. 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 sq. ft.
 - Mulch - Weed free grain straw applied at the rate of 70 lbs/1000 sq. ft. Mulch shall be secured to the ground by any approved method i.e. asphalt tar, 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.
- Upstream ends of all storm drain pipes shall be blocked at the end of each working day. see detail this sheet.
- SITE ANALYSIS:**
 - Total Area: 12.10 Acres
 - Area to be Paved: 2.40 Acres
 - Area to be Seeded: 4.90 Acres
 - Area Undisturbed: 4.80 Acres
- A Complete site grading plan must be developed and approved before building permits can be issued.
- CONSTRUCTION SEQUENCE:**
 - Grading Permits shall be obtained prior to any installation of Sediment Control or Grading.
 - Install all Sediment & Erosion Controls.
 - Grade and slope proposed earth mound in area of Sleepoff Circle and immediately stabilize as per note #6.
 - Grade streets & parking areas as necessary to properly install storm drainage. Install storm drainage & block inlets with S.F.I.P.'s.
 - Construct Paving.
 - Stabilize all disturbed areas in accordance with note #6.
 - Sediment Control devices to be removed only after areas draining to these devices have been stabilized.



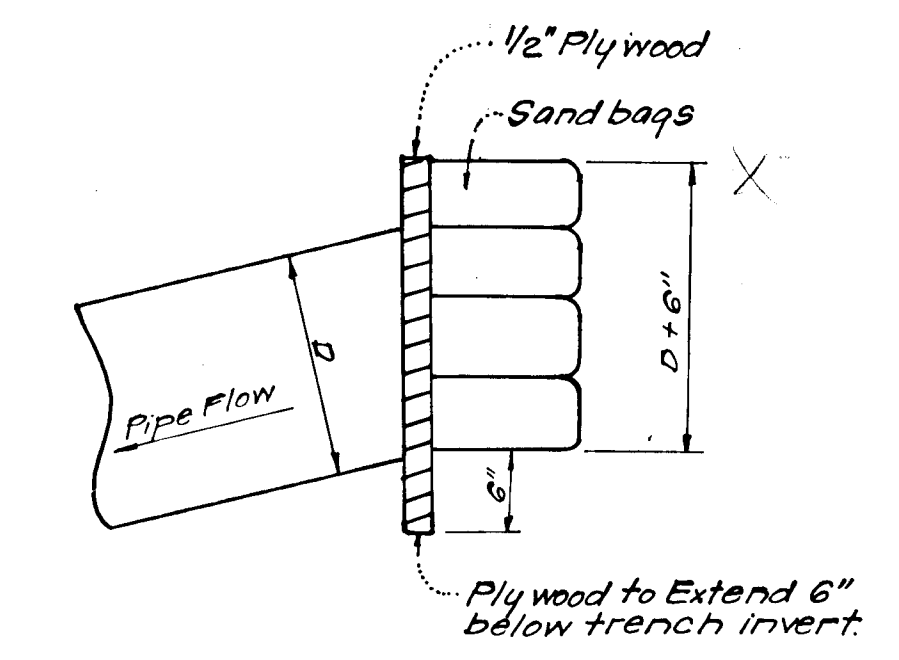
NOTES:
 1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
 2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".

SILT FENCE DETAIL (S.F.)
 No Scale

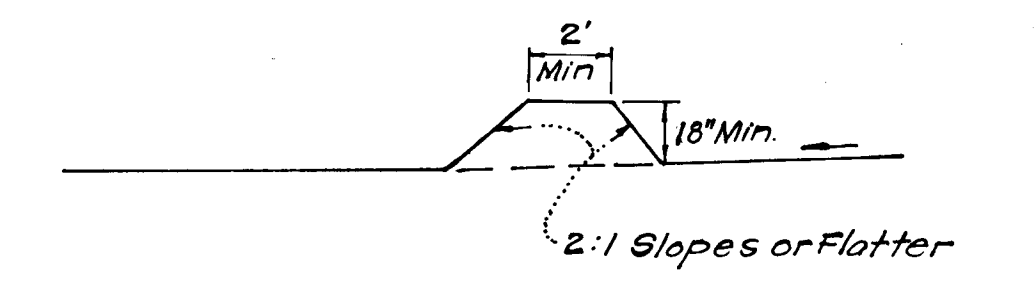


NOTE:
 1. In lieu of the use of rebar each Straw Bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

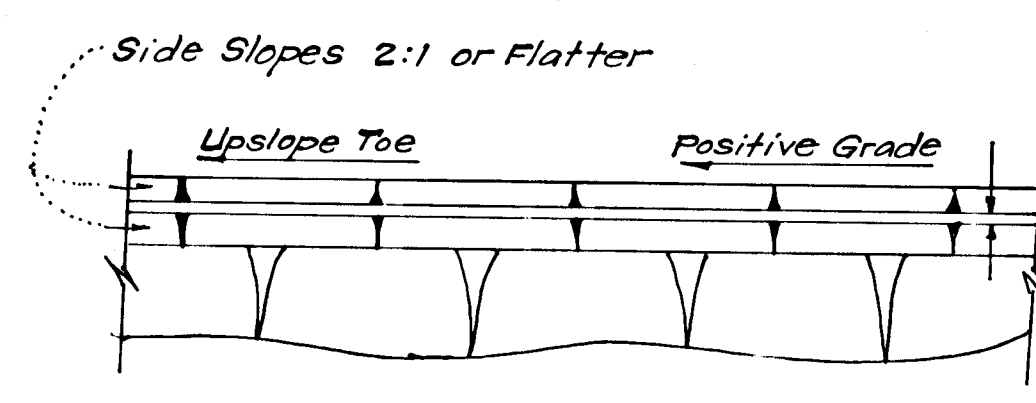
TYPICAL STRAW BALE DETAIL (S.B.D.)
 No Scale



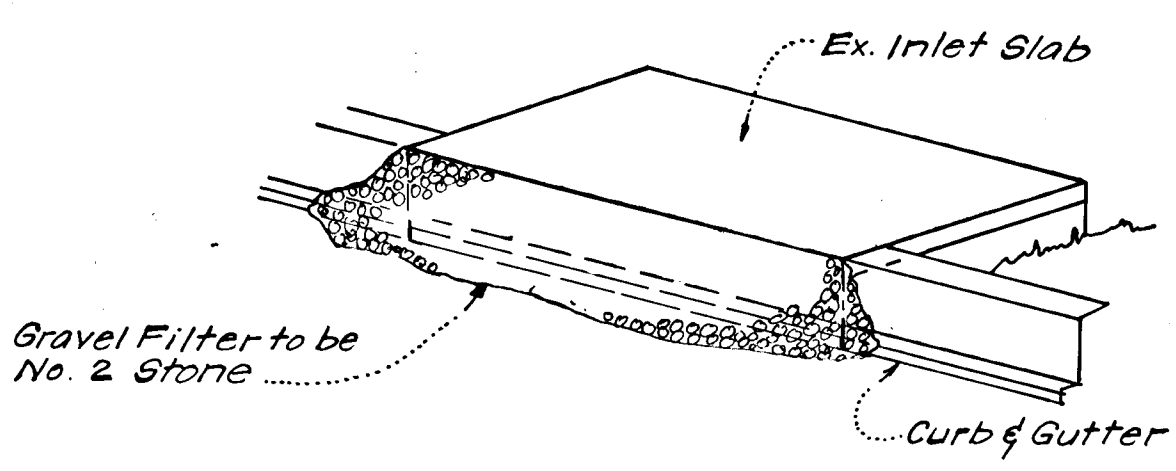
PIPE BLOCKING DETAIL
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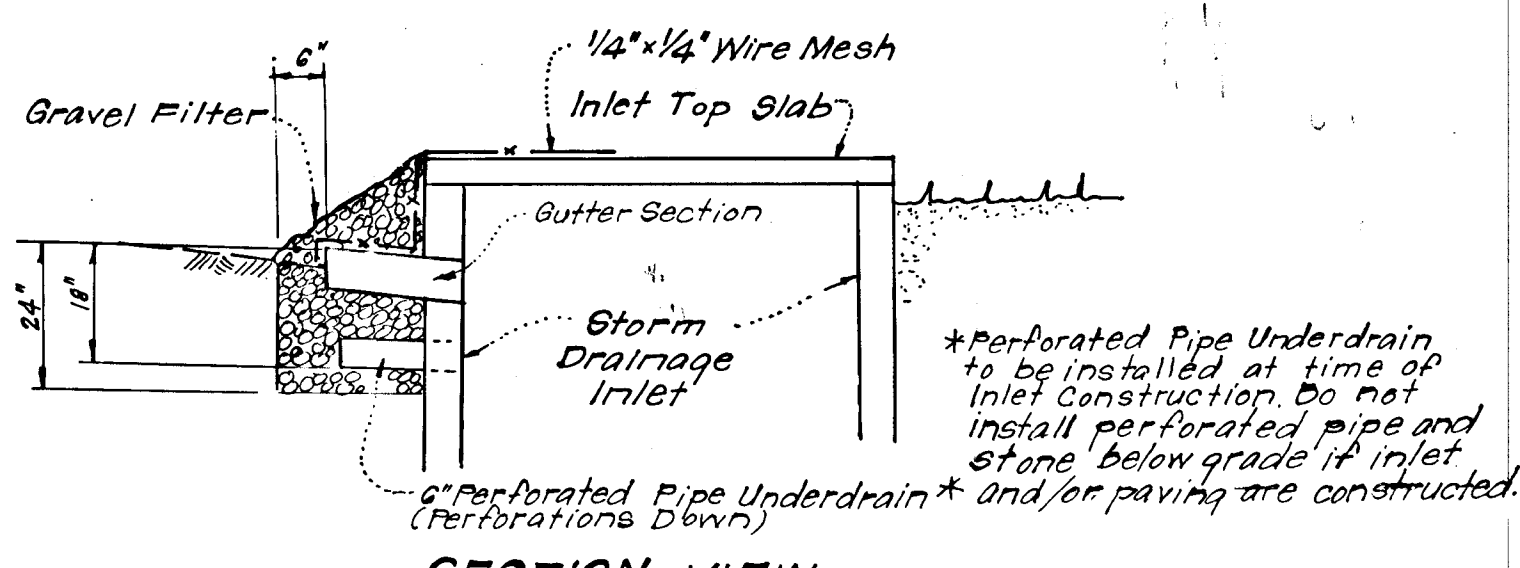
CROSS SECTION



PLAN VIEW
DIVERSION DIKE (D.D.)
 No Scale

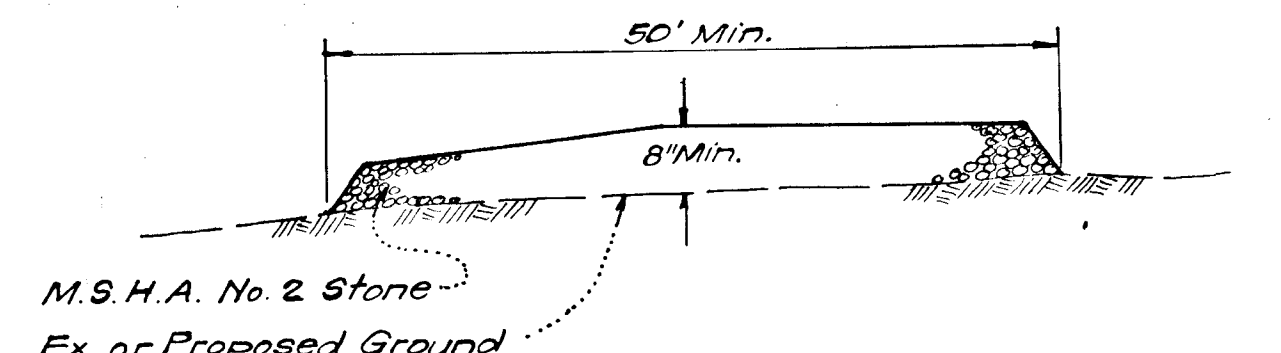


ISOMETRIC VIEW

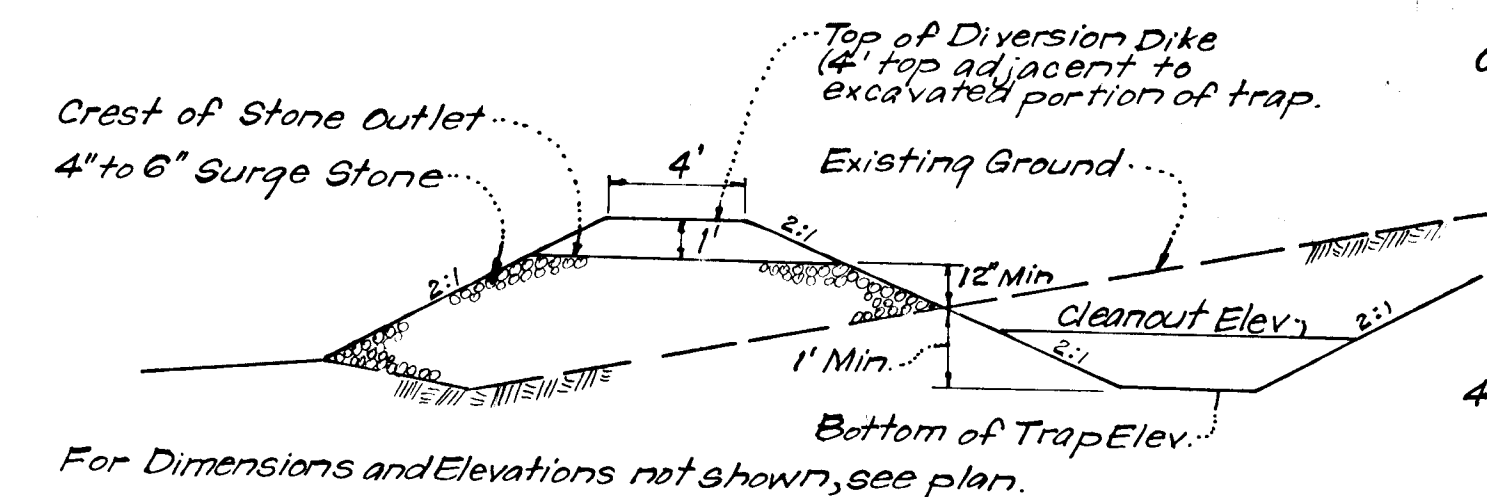


SECTION VIEW

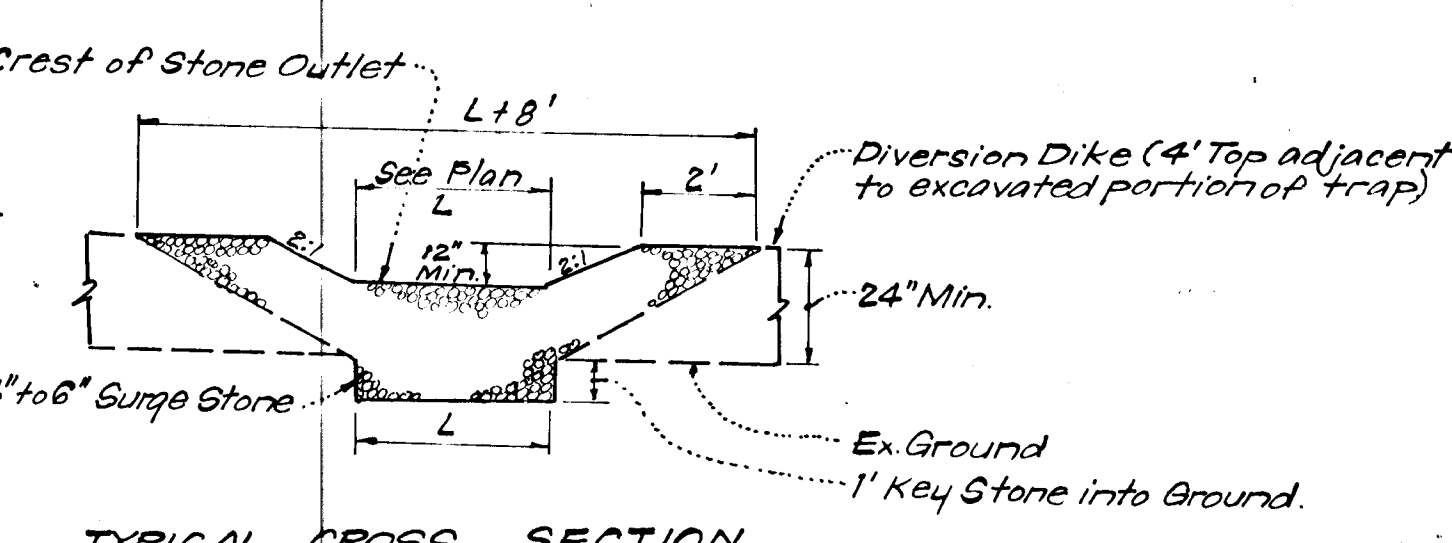
STONE FILTER INLET PROTECTION DETAIL (S.F.I.P.)
 No Scale



SECTION VIEW
STABILIZED CONSTRUCTION ENTRANCE
 No Scale



TYPICAL PROFILE



TYPICAL CROSS SECTION

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

STONE FILTER OUTLET NOTES:
 1. Sediment Trap to be cleaned out when sediment reaches a level of 2 ft. below the 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.

Reviewed for Howard S.C.D. Name
 and meets Technical Requirements
Walter E. Woodford Signature Date 4-19-79
 U.S. Soil Conservation Service

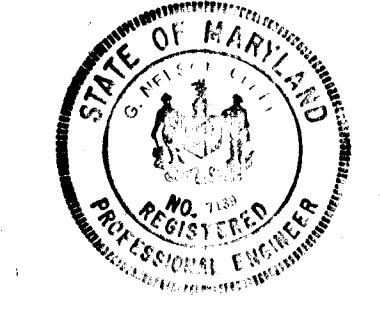
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DEVELOPER'S CERTIFICATE
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Walter E. Woodford Signature Date 4/19/79
 Walter E. Woodford

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 Signature Date 4-31-79
 G. Nelson Clark



APPROVED: DEPARTMENT OF PUBLIC WORKS		APPROVED: HOWARD COUNTY OF PLANNING & ZONING
<u>W. J. ...</u> CHIEF, BUREAU OF ENGINEERING	5-10-79 DATE	<u>Walter E. Woodford</u> CHIEF, DIVISION OF LAND DEVELOPMENT
APPROVED: DEPARTMENT OF PUBLIC WORKS		APPROVED: HOWARD COUNTY OF PLANNING & ZONING
<u>W. J. ...</u> CHIEF, BUREAU OF ENGINEERING	5-10-79 DATE	<u>Walter E. Woodford</u> 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.	SCALE As Shown	
DRAWN K. I. W.	DRAWING 10 of 10	
CHECKED DAB	JOB NO.	
DATE Jan, 1979	FILE NO. 1257-D	
ROAD CONSTRUCTION PLANS A RESUBDIVISION OF PARCEL A-110 SEDIMENT & EROSION CONTROL DETAILS COLUMBIA VILLAGE OF OWEN BROWN SECTION 2 AREA 7 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: HOWARD RESEARCH & DEVELOPMENT CORP The Rouse Company Building Columbia, Maryland 21044		