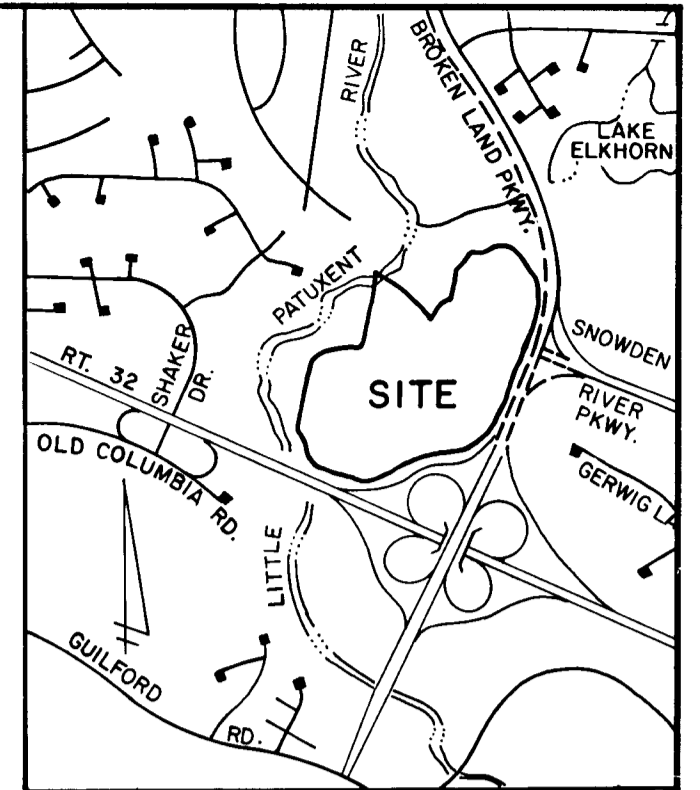


VILLAGE OF OWEN BROWN

SECTION 6, AREA 1

6TH. ELECTION DISTRICT

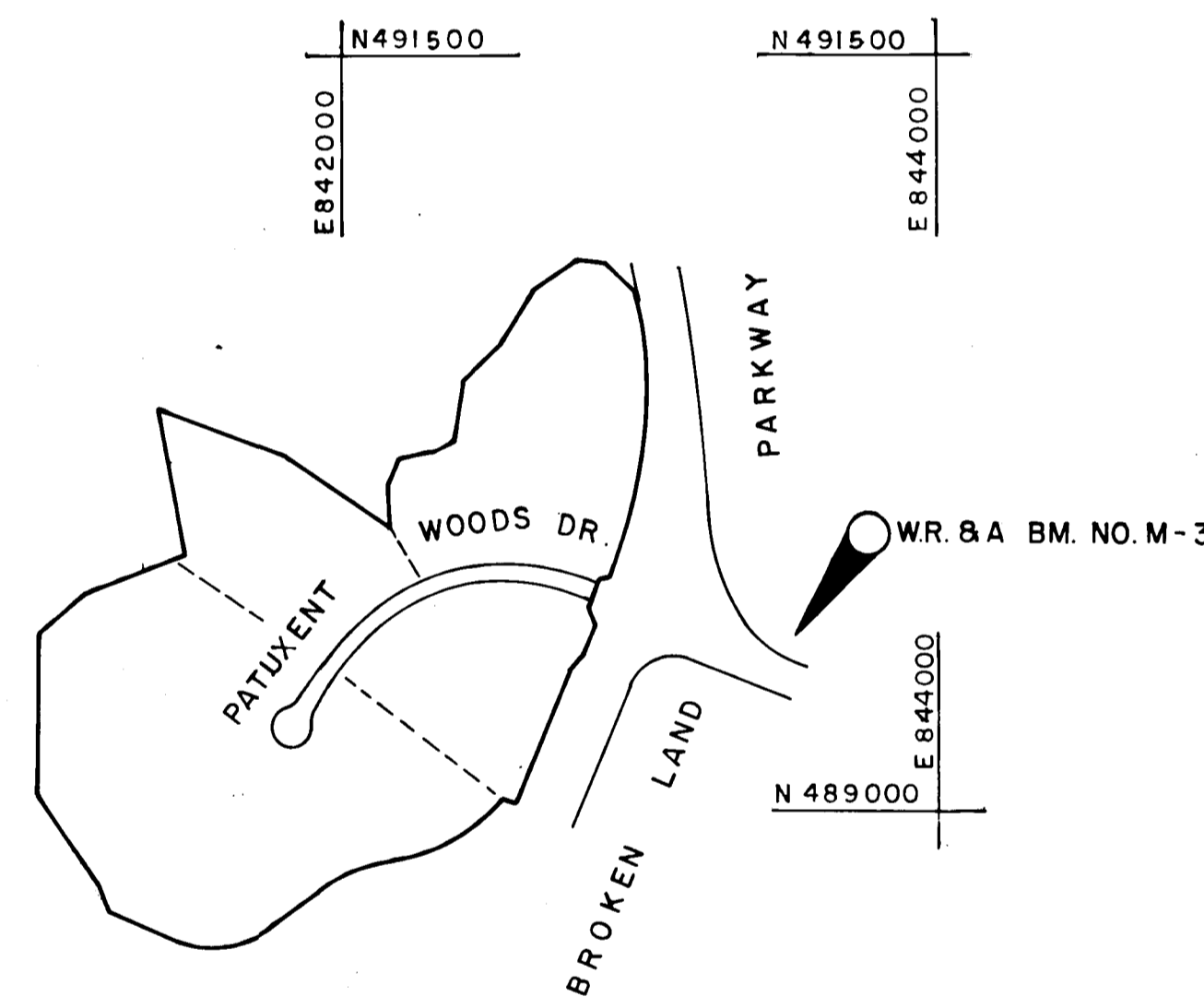
HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, "STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION".
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY "MISS UTILITY" PHONE (1) 539-0100 AT LEAST THREE (3) DAYS BEFORE STARTING WORK SHOWN ON THIS/ THESE DRAWING (S).
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1971 REVISED EDITION.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III STANDARDS, 30 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
- ALL COORDINATES BASED ON MARYLAND STATE GRID SYSTEM.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- BRICK BULKHEADS SHALL BE INSTALLED IN ALL STORM DRAIN STUBS.
- CONTRACTOR TO RESTORE ALL EXISTING PAVING, SIDEWALKS OR LAWNS AFFECTED BY THE CONSTRUCTION SHOWN HEREON TO A CONDITION COMPARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION.
- S.W.M. WILL BE PROVIDED ON AN INDIVIDUAL PARCEL BASIS AT THE TIME OF SITE PLAN SUBMISSION.
- STREET TREES:
THE LOCATION, TYPE AND NUMBER OF TREES SHOWN ON THESE PLANS ARE TENTATIVE AND ARE USED FOR BOND PURPOSE ONLY. THE FINAL LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND BUILDER'S LANDSCAPE PROGRAM. BOND RELEASE IS CONTINGENT UPON SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, AS APPROVED BY THE OFFICE OF PLANNING AND ZONING.



PLAN

SCALE: 1"=600'

NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS & MISCELLANEOUS DETAILS
3	ROADWAY PLAN & PROFILE
4	ROADWAY PLAN & PROFILE
5	STORM DRAIN PROFILE
6	DRAINAGE AREA MAP, EROSION & SEDIMENT CONTROL
7	SEDIMENT CONTROL DETAILS

DEPARTMENT OF PUBLIC WORKS
[Signature]
 Chief, Bureau of Engineering Date 10/20/84

DEPARTMENT OF PLANNING AND ZONING
[Signature]
 Chief, Div. of Land Develop and Zoning Admin. Date 10/26/84

Date	No	HOWARD COUNTY COMMENTS

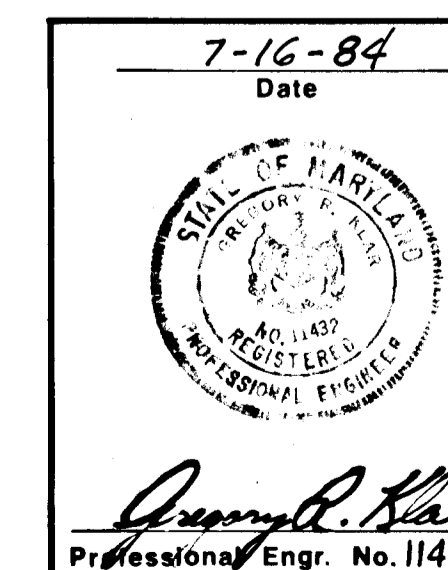
Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS • PLANNERS
 TOWSON, MARYLAND 21204

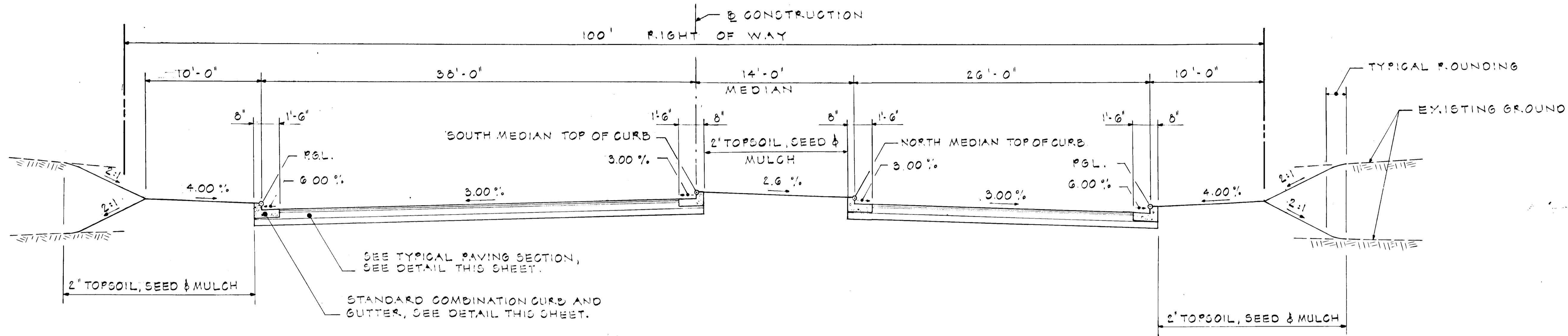
AREA VILLAGE OF OWEN BROWN
 SECTION 6 AREA 1, 6TH ELECTION DISTRICT, HOWARD CO., MD.

TITLE SHEET

Des By	Scale AS SHOWN	Proj No 84-1035
Drn By G.B.Z.	Date 7-16-84	Drawing No.
Chk By	Approved	1 OF 7

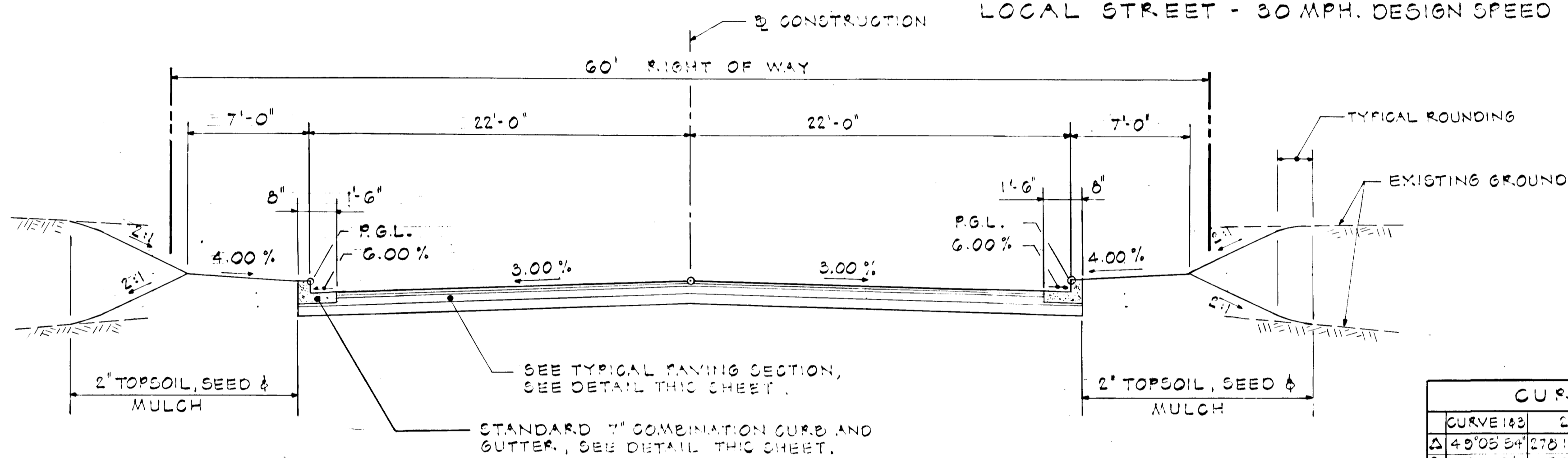


F-85-26



STA. 26+07.29 TO STA. 27+62.37
TYPICAL SECTION ~ PATUXENT WOODS DRIVE

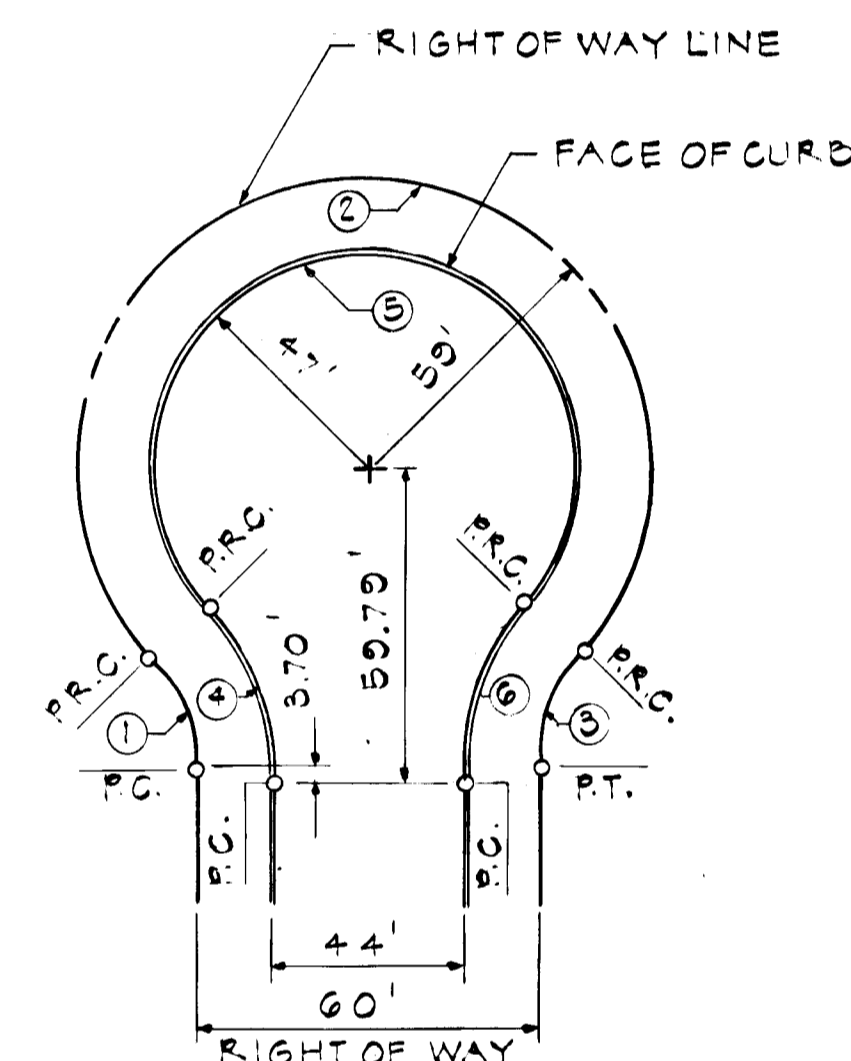
SCALE: 1" = 5'-0"
 LOCAL STREET - 30 MPH. DESIGN SPEED



STA. 29+83.77 TO STA. 38+50.93
TYPICAL SECTION ~ PATUXENT WOODS DRIVE

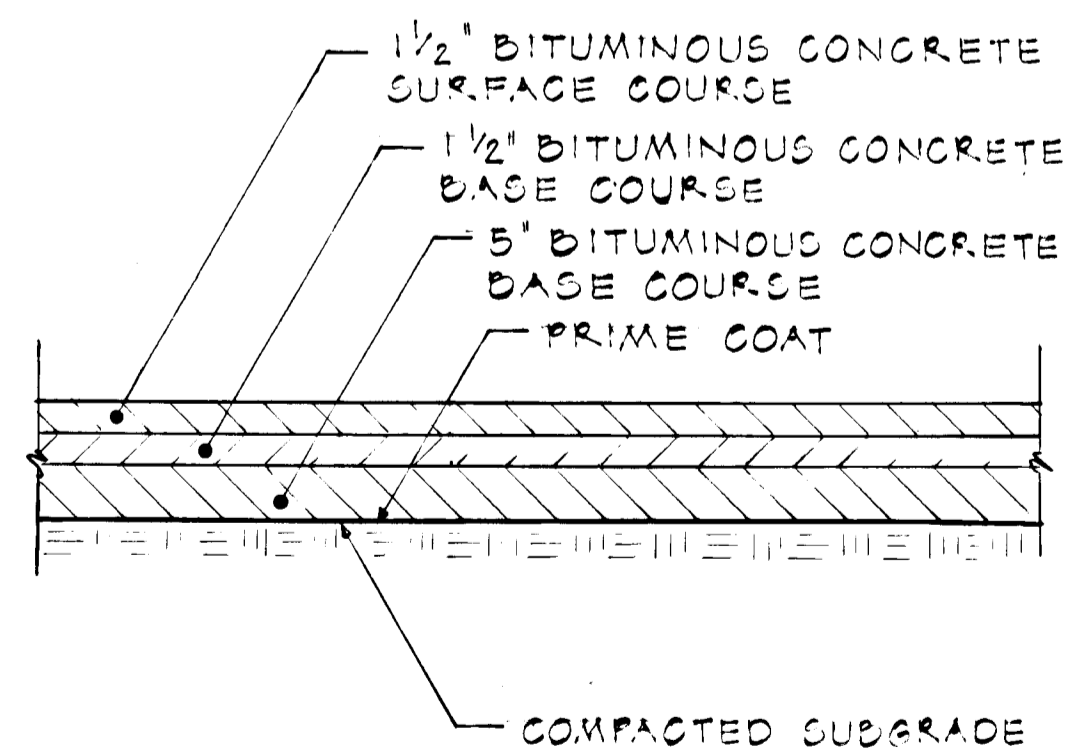
SCALE: 1" = 5'-0"
 LOCAL STREET - 30 MPH. DESIGN SPEED

CURVE DATA			
CURVE NO.	Δ	Δ/2	S
A	43°05'54"	21°22'57"	470+34.11
R	25.00'	50.00'	37.00'
L	21.42'	20.64'	22.11'
T	11.42'	15.47'	-
LC	20.77'	28.65'	-

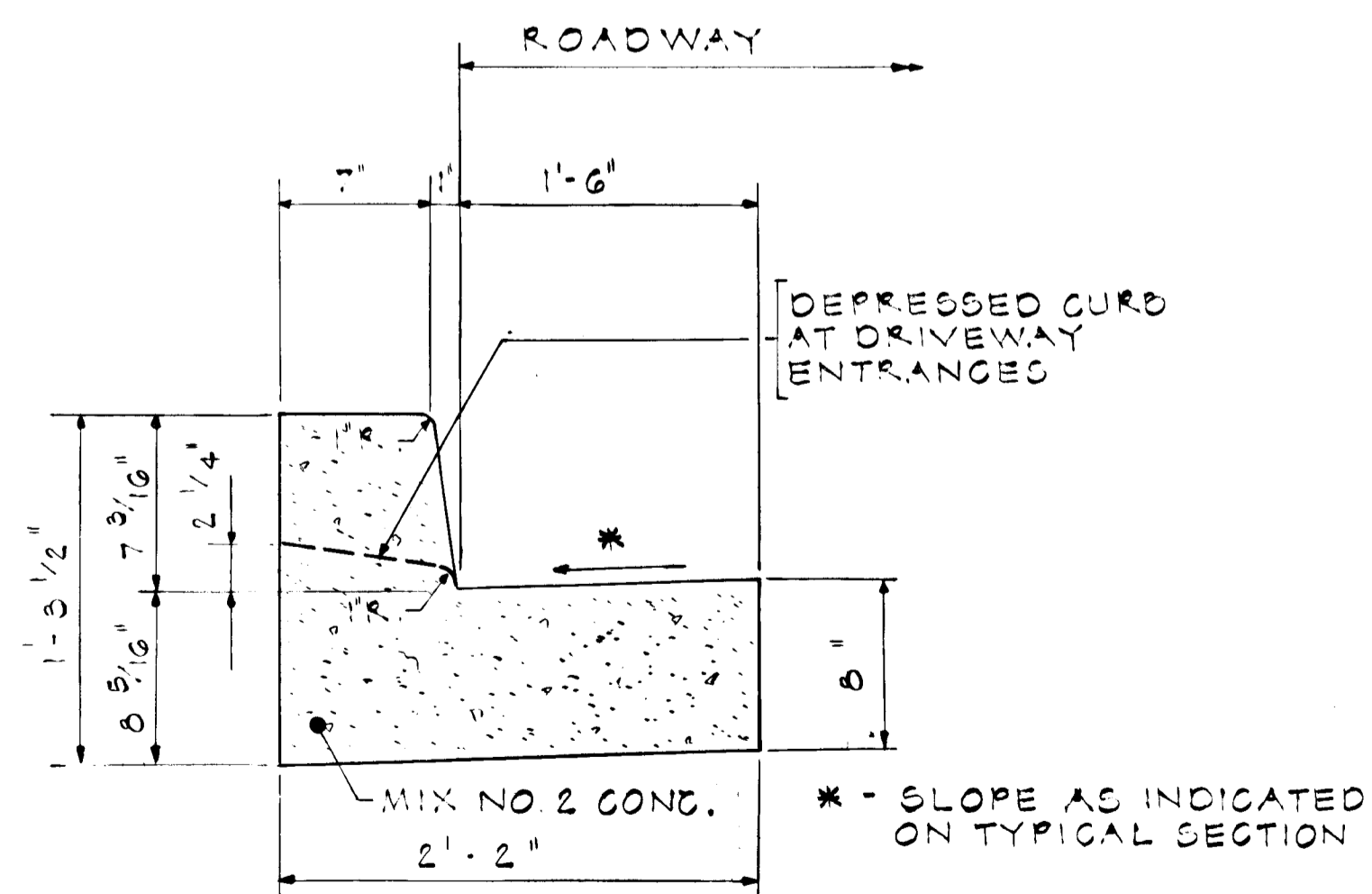


CUL-DE-SAC DETAIL

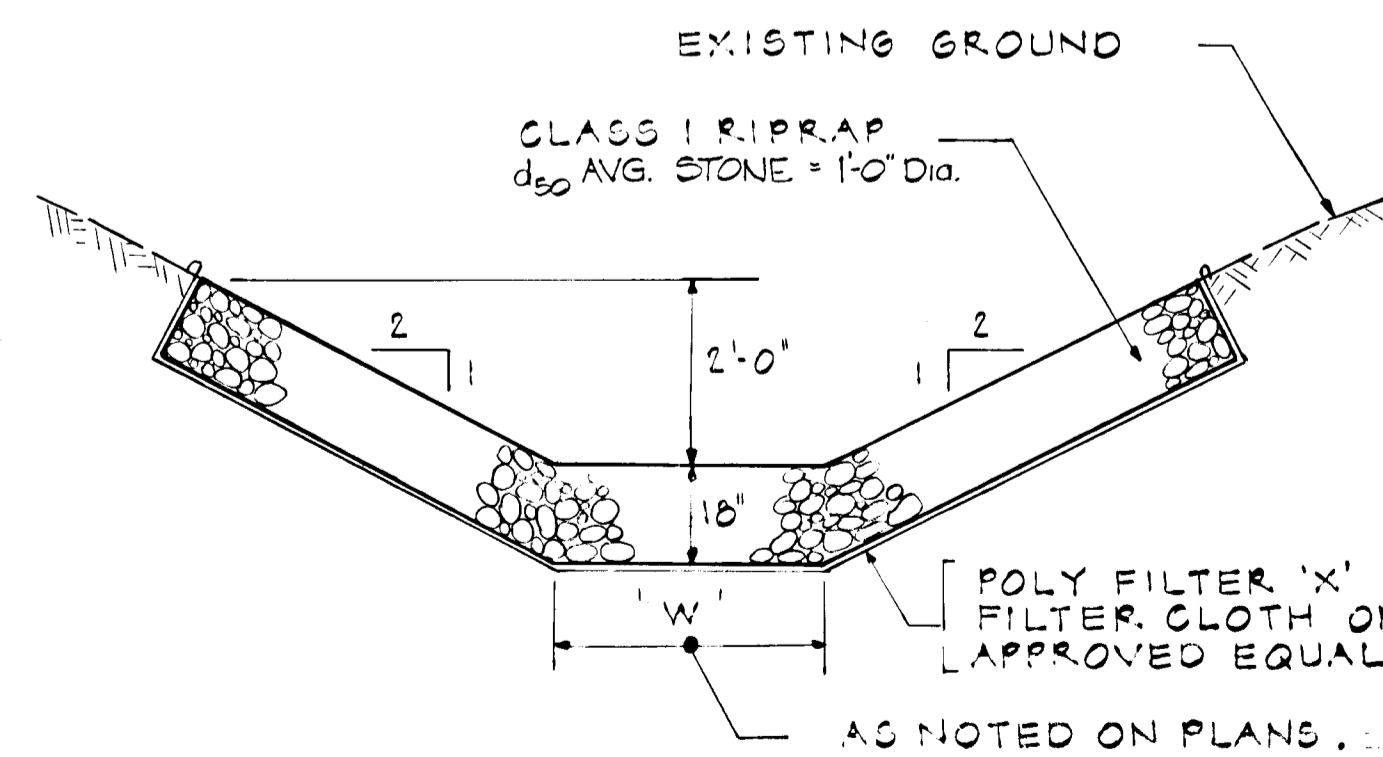
NOT TO SCALE



TYPICAL PAVING SECTION
 NOT TO SCALE



7" COMBINATION CURB & GUTTER
 NOT TO SCALE



RIPRAP CHANNEL
 NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS
Kenneth B. Riley 10/24/84
 Chief, Bureau of Engineering Date

DEPARTMENT OF PLANNING AND ZONING
John W. Murchman 10/26/84
 Chief, Div. of Land Development and Zoning Adm. Date

8-24-84	1	HOWARD COUNTY COMMENTS
Date	No	Revision Description

Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA **VILLAGE OF OWEN BROWN**
 SECTION 6 AREA 1, 6TH ELECTION DISTRICT, HOWARD CO., MD.

TITLE **TYPICAL SECTIONS AND MISCELLANEOUS DETAILS**

Des By F.T.	Scale AS SHOWN	Proj No 84-1335
Drn By P.D.C.	Date	Drawing No.
Chk By F.T.	Approved	2 OF 7

7-16-84
 Date

 Professional Engr. No. 11432

F-85-26

12/00 V. 1/2

STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEVATION	REMARKS
I-5	30+50	22' R.	A-10 W/Deflector	301.15	H.O.C.O. DETAIL 30+40 L. # 4 B
I-4	30+50	22' L.	A-10 W/Deflector	301.15	H.O.C.O. DETAIL 30+40 L. # 4 B
I-5	33+00	22' L.	A-10 W/Deflector	299.58	H.O.C.O. DETAIL 33+40 L. # 4 B

NOTE: SEE SHEET 5 FOR STORM DRAIN PROFILES.

DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Engineering *[Signature]* 10/30/84
 Chief, Div. of Planning and Zoning
[Signature] 10/26/84
 Chief, Div. of Land Development and Zoning Adm. Date
 7-26-85 2 ADD CURB CUT-OUTS
 8-24-84 1 HOWARD COUNTY COMMENTS
 Date No Revision Description

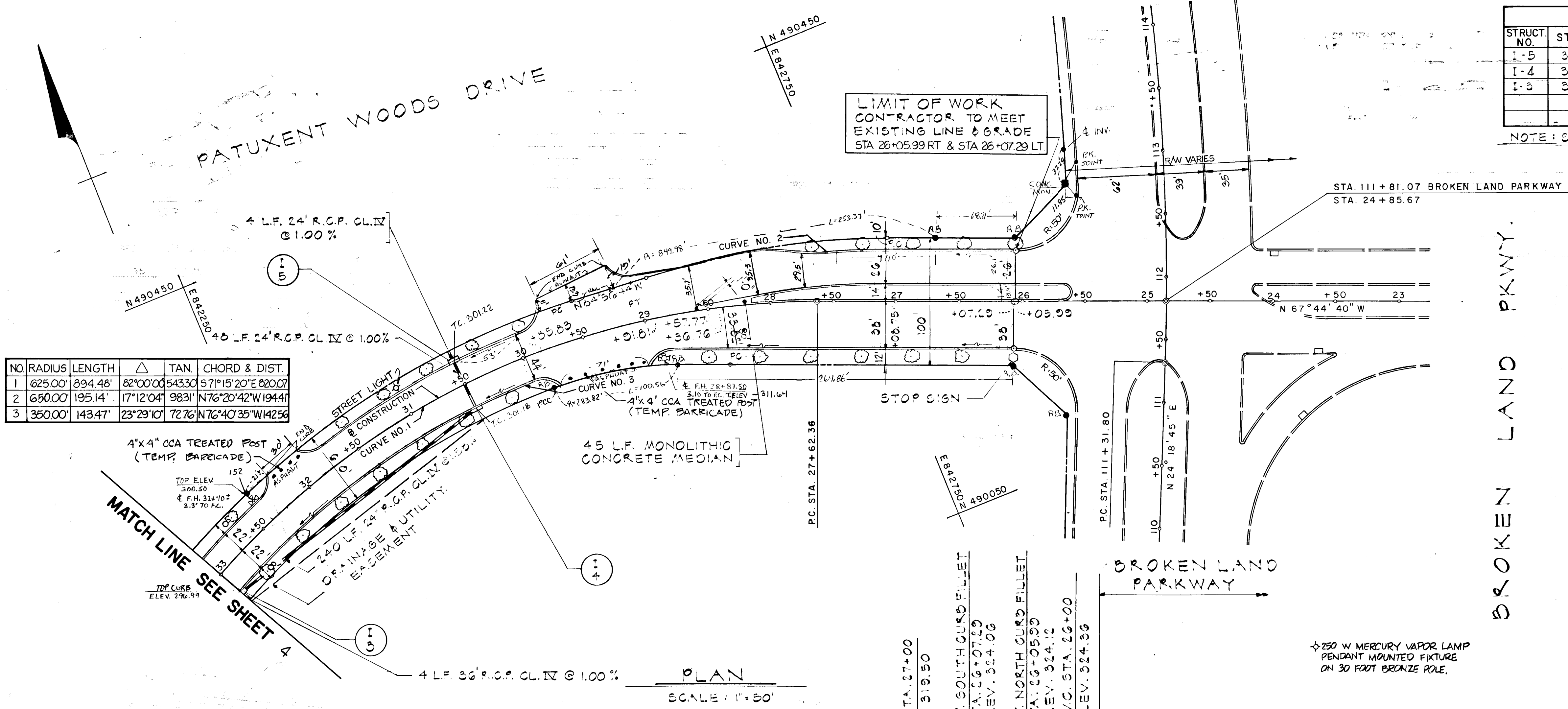
Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

7-16-84
 Date
[Signature]
 Designer Engr. No. 11432

Des. By: F.T. Scale: AS SHOWN Proj. No. 84-1335
 Dwn. By: P.D.C. Date
 Chk. By: F.T. Approved

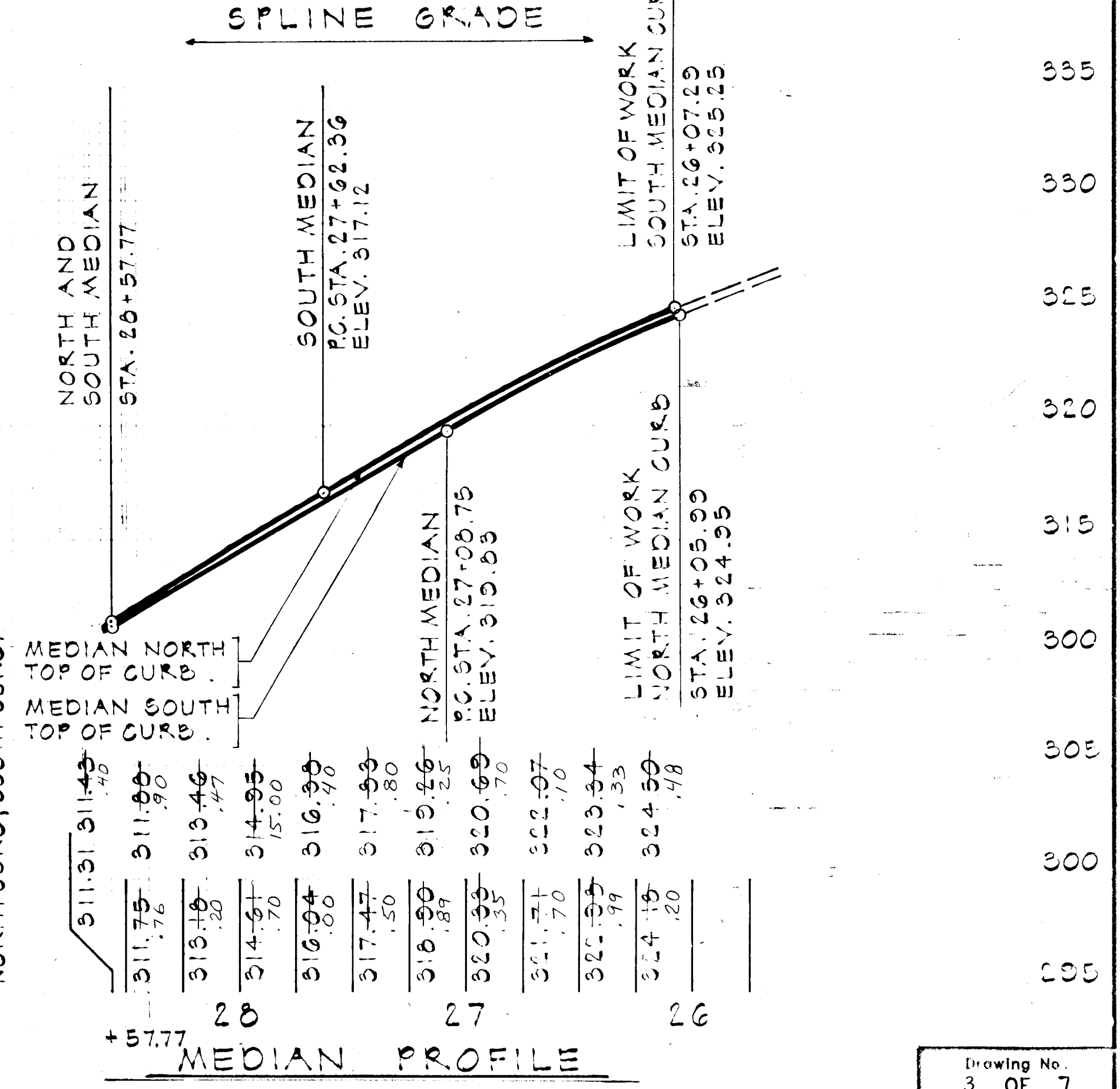
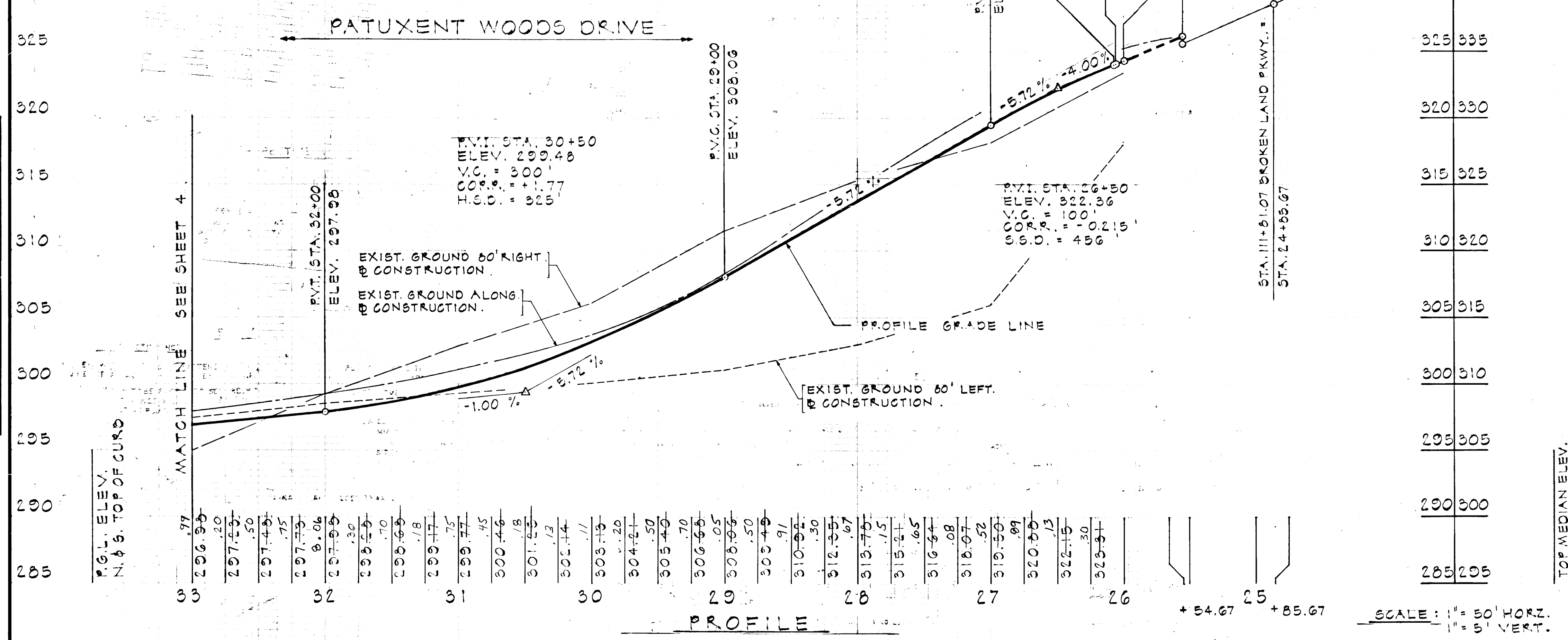
AREA: VILLAGE OF OWEN BROWN
 SECTION 6, AREA 1; 6TH ELECTION DISTRICT, HOWARD CO., MD.
 TITLE: PATUXENT WOODS DRIVE
 PLAN AND PROFILE
 Drawing No. 3 OF 7



NO.	RADIUS	LENGTH	TAN	CHORD & DIST.
1	625.00'	894.48'	82°00'00"	543.30' S 71°15'20" E 820.07'
2	650.00'	195.14'	17°12'04"	98.31' N 76°20'42" W 194.41'
3	350.00'	143.47'	23°29'10"	72.76' N 76°40'35" W 142.56'

PLAN
 SURVEYED, ALIGNED, CHECKED, BY DATE
 NOTE BOOK NO. RT. OF WAY CHECKED NO.

PROFILE
 SURVEYED, GRADES CHECKED, BY DATE
 NOTE BOOK NO. B.M. NOTED, STRUCTURE NOTATIONS CHECKED NO.



AS-BUILT 11-6-87

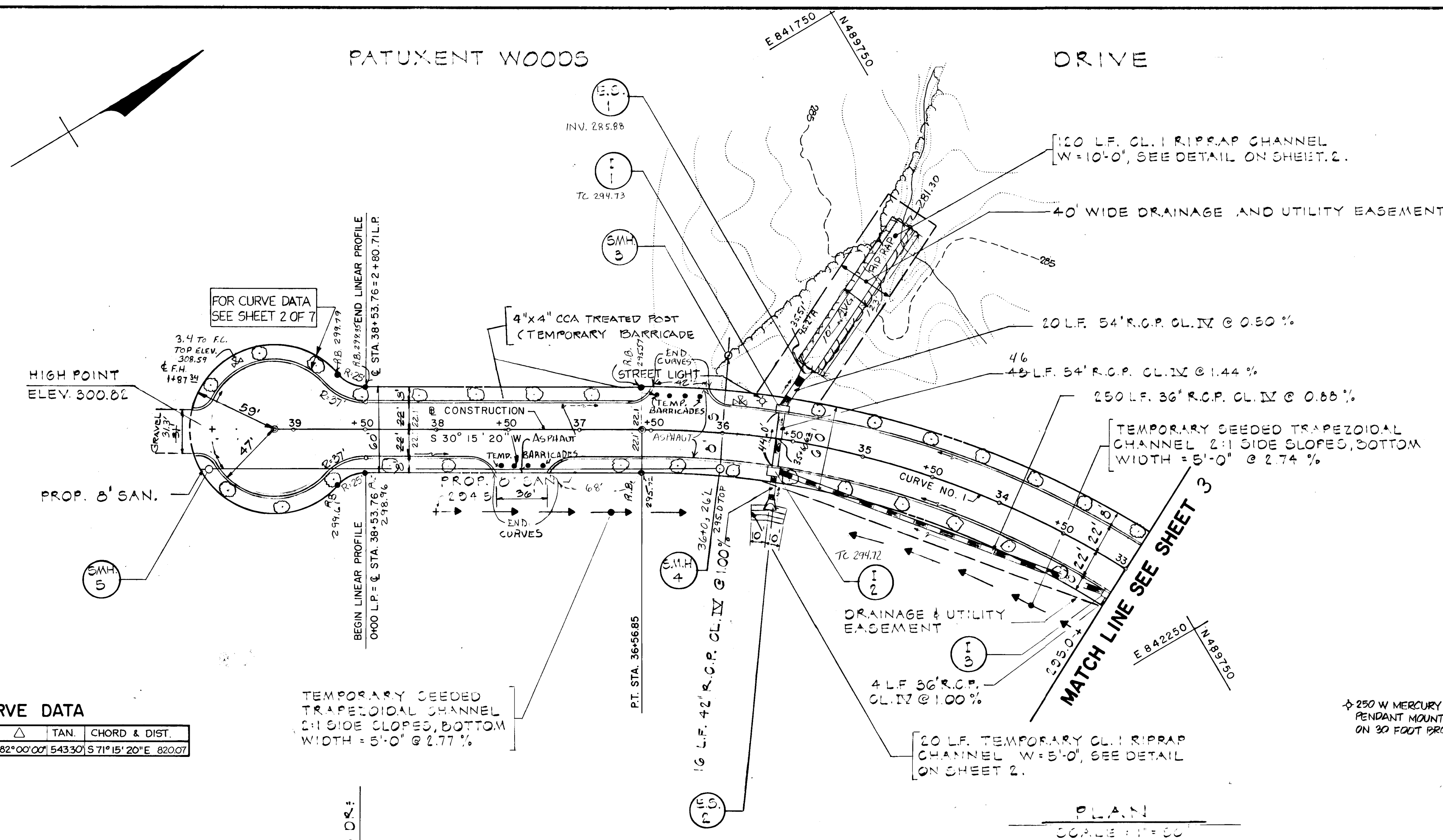
F-85-20 AS-BUILT

PLAN SURVEYED, ALIGNED, CHECKED, NOTE BOOK NO. DATE

PROFILE SURVEYED, PROFILE CHECKED, NOTE BOOK NO. DATE

61

PATUXENT WOODS DRIVE



CURVE DATA

NO	RADIUS	LENGTH	Δ	TAN.	CHORD & DIST.
1	625.00'	894.48'	82°00'00"	543.30'	S 71°15'20"E 820.07'

TEMPORARY SEEDED TRAPEZOIDAL CHANNEL 2:1 SIDE SLOPES, BOTTOM WIDTH = 5'-0" @ 2.74 %

STRUCTURE SCHEDULE

STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEVATION	REMARKS
EO.1	35+51	43' R.	CONG. END SEC.	—	H.O.CO. DETAIL 30.001 OF 302
I-1	35+00.62	22' R.	A-10	294.80	H.O.CO. DETAIL 30.402
I-2	35+00.62	22' L.	A-10	294.80	H.O.CO. DETAIL 30.402
EO.2	35+00.62	43' L.	CONG. END SEC.	—	H.O.CO. DETAIL 30.001 OF 302
I-3	33+00	22' L.	A-10 w/ Deflector	296.98	H.O.CO. DETAIL 30.402 & 30.480

NOTE: SEE SHEET 5 FOR STORM DRAIN PROFILES.

DEPARTMENT OF PUBLIC WORKS

William B. Poy 10/30/84
Chief, Bureau of Engineering Date

DEPARTMENT OF PLANNING AND ZONING

John W. Muschmann 10-26-84
Chief, Div. of Land Development and Zoning Adm. Date

Date	No	Revision Description
7-26-85	2	ADD CURB CUT-OUTS
8-24-84	1	HOWARD COUNTY COMMENTS

Owner and Developer

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE COMPANY
Columbia, Maryland

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS - PLANNERS
TOWSON, MARYLAND 21204

AREA

VILLAGE OF OWEN BROWN
SECTION 6 AREA 1, 6TH ELECTION DISTRICT, HOWARD CO., MD.

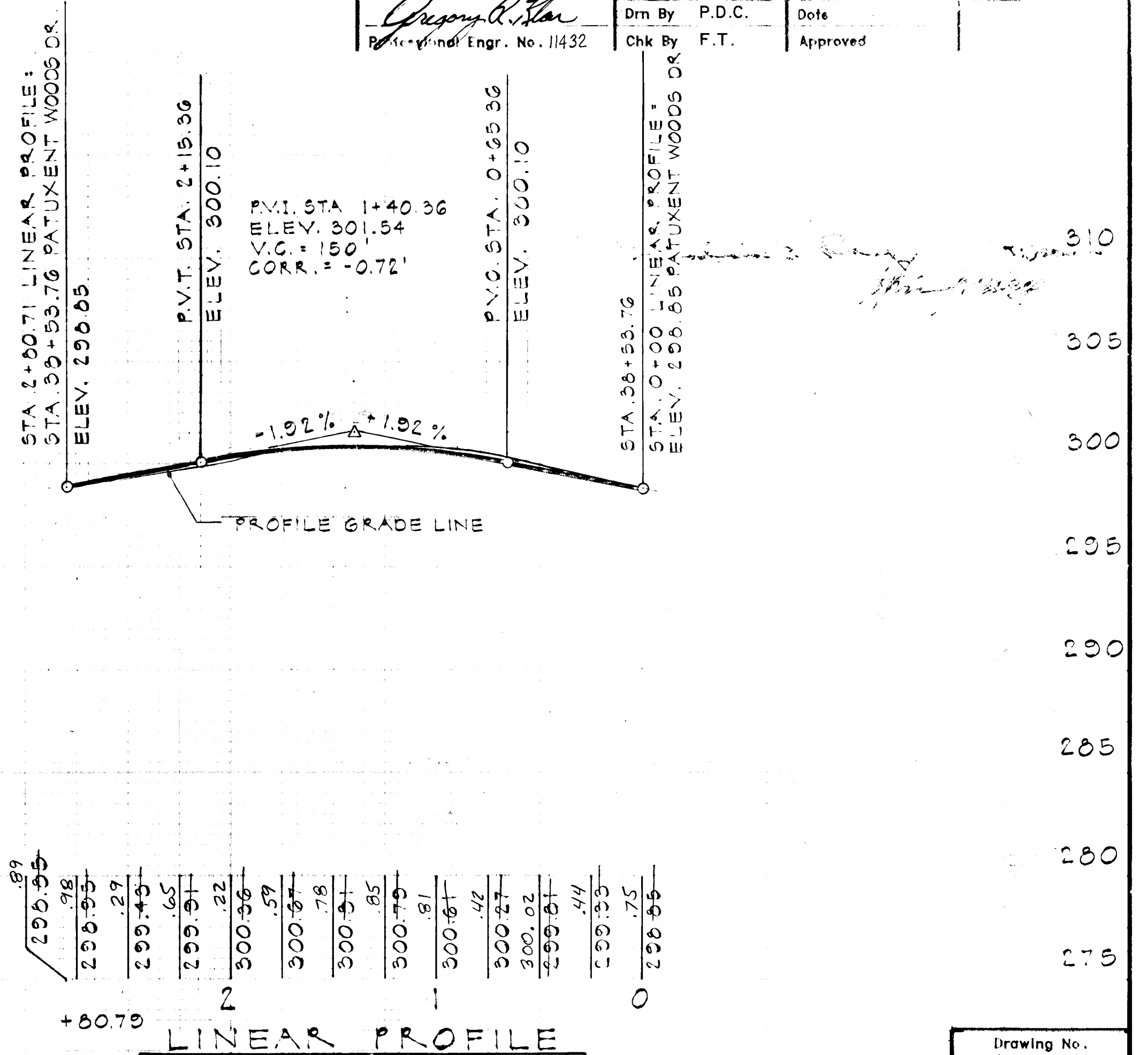
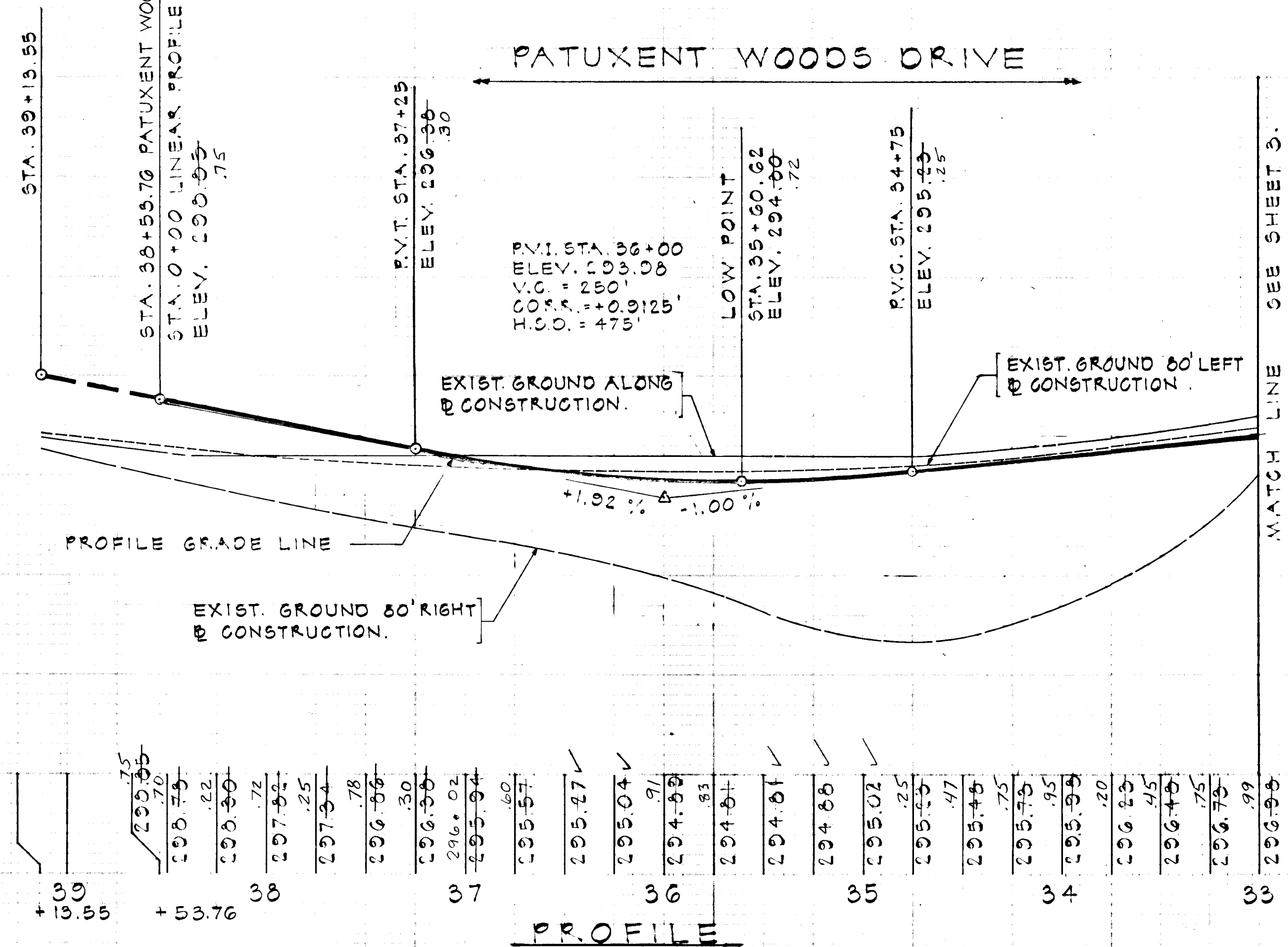
TITLE

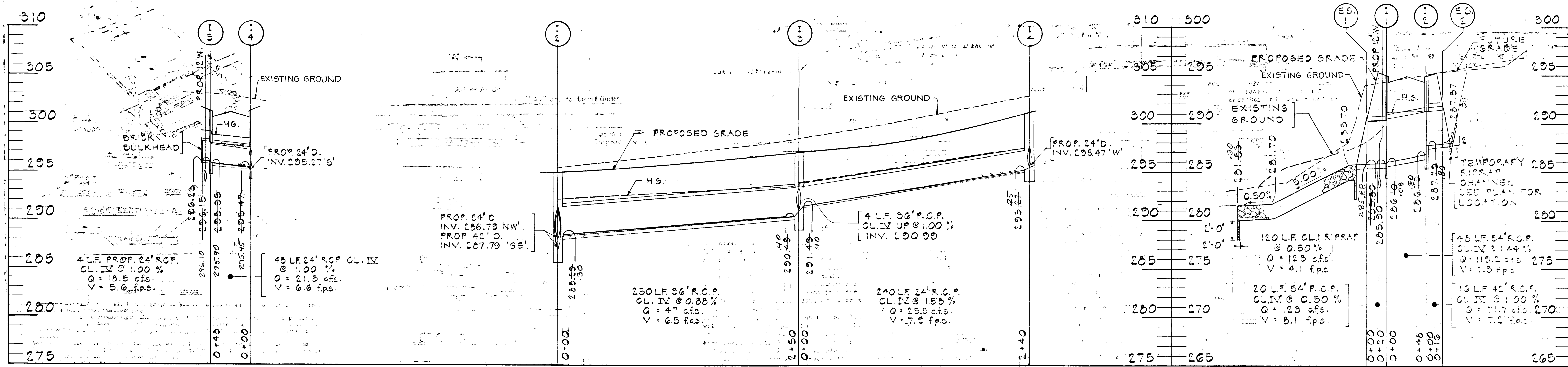
PATUXENT WOODS DRIVE
PLAN AND PROFILE

Des. By F.T. Scale AS SHOWN Proj. No. 84-1335
Dwn. By P.D.C. Date
Chk. By F.T. Approved

7-16-84
Date

Joseph R. Star
Professional Engr. No. 11432

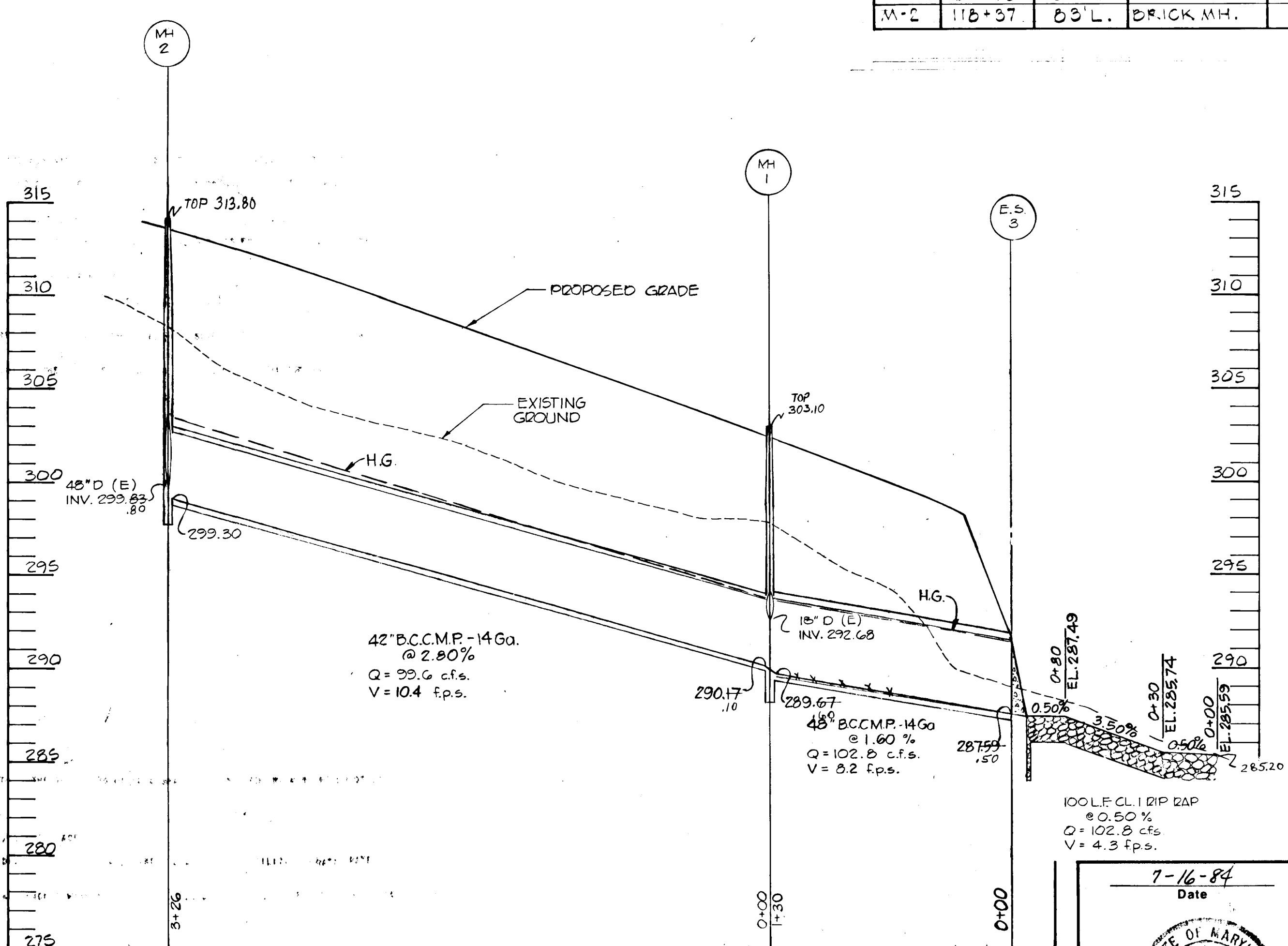
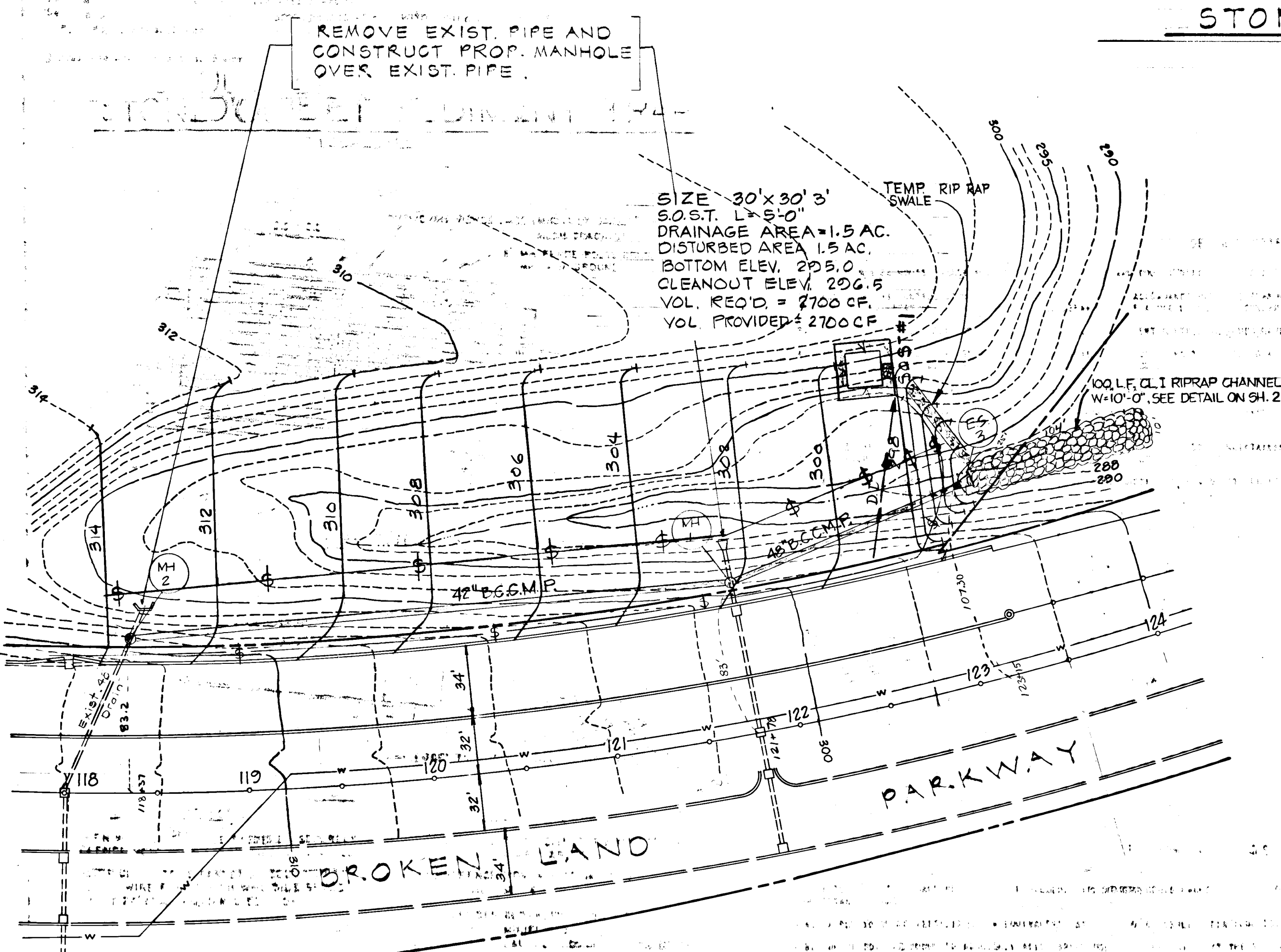




STORM DRAIN PROFILES

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

STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEVATION	REMARKS
EC-3	103+15	107' L.	CONCRETE BOX	303.00	40.00 DETAIL 6 S.03 OF 5.82
M-1	121+78	83' L.	BRICK MH.	303.00	40.00 DETAIL 6 S.03
M-2	118+37	83' L.	BRICK MH.	314.00	40.00 DETAIL 6 S.03



DEPARTMENT OF PUBLIC WORKS

William S. P...
Chief, Bureau of Engineering *10/25/84* Date

DEPARTMENT OF PLANNING AND ZONING

John W. M... *10/26/84*
Chief, Div. of Land Development and Zoning Adm. Date

Date	No	Revision	Description
3-24-84			HOWARD COUNTY COMMENTS

Owner and Developer

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE COMPANY
Columbia, Maryland

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
TOWSON, MARYLAND 21204

AREA: VILLAGE OF OWEN BROWN
SECTION 6, AREA 1; 6TH ELECTION DISTRICT, HOWARD CO., MD.

TITLE: STORM DRAIN PROFILES

Des By F.T.	Scale AS SHOWN	Proj No 84-1335
Drn By P.D.C.	Date 7-16-84	Drawing No. 5 OF 7
Chk By F.T.	Approved	

CERTIFICATION BY THE ENGINEER:

I 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.

Gregory R. ...
Signature Date *10/25/84*

CERTIFICATION BY THE DEVELOPER:

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT 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.

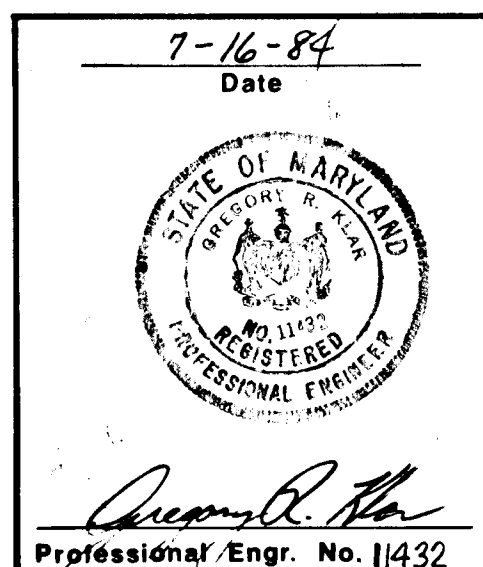
John H. ...
Signature of Developer Date *10-25-84*

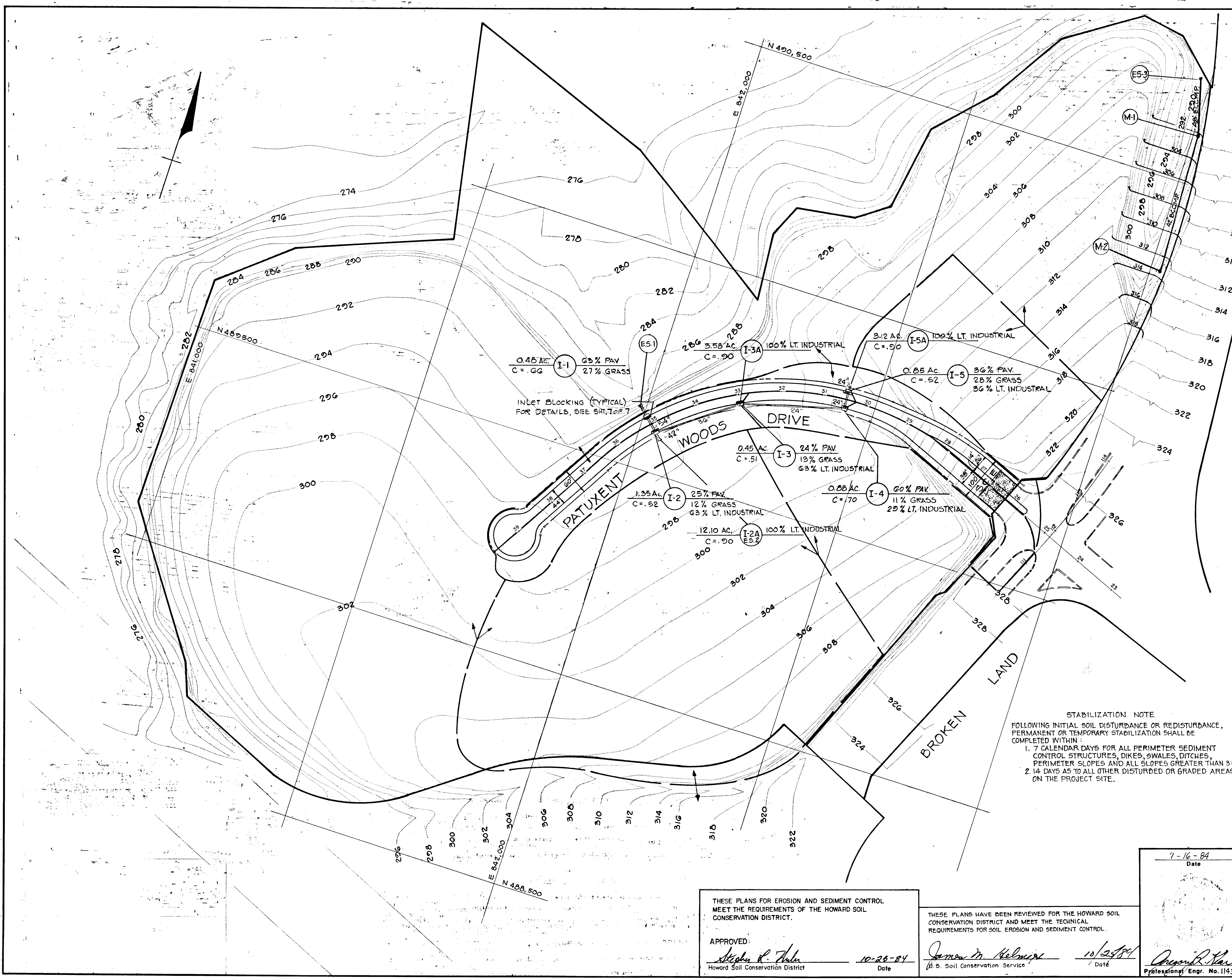
THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:
Stephen J. ...
Howard Soil Conservation District Date *10-28-84*

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

James M. ...
S. Soil Conservation Service Date *10/25/84*





SEQUENCE OF CONSTRUCTION

1. GRADING TO BE PERFORMED UNDER GP 84-89 WITH THOSE CONTROLS IN PLACE.
2. INSTALL S.C.E.
3. INSTALL SILT FENCE BELOW STORM DRAIN SYSTEM MH 2 TO E-3.
4. CONSTRUCT STORM DRAIN SYSTEMS AND BLOCK ALL INLETS PER DETAIL PRIOR TO FILLING SWALE.
5. CONSTRUCT DIVERSION DIKES AS SHOWN ON PLAN AND BEGIN GRADING AS PER PLAN ON SHEET 5 OF 7.
6. CONSTRUCT 50.5T^{#1} IN SWALE ADJACENT TO OUTLET OF E-3 AND PROCEED WITH FILL. AS FILL IS CONSTRUCTED 50.5T^{#1} SHALL BE ADJUSTED UPHILL FOR EACH 5 FT. VERTICAL DEPTH AS GRADING PROCEEDS. ONCE FILL REACHES FINAL GRADE 50.5T^{#1} SHALL BE CONSTRUCTED AT TOP OF FILL AND ALL DISTURBED AREAS SHALL BE STABILIZED AS PER TEMPORARY SEEDING NOTES.
7. UPON APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS SEDIMENT CONTROL INSPECTOR, REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES AND STABILIZE PER PERMANENT SEEDING NOTES.

CERTIFICATION BY THE DEVELOPER
 I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT 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.

[Signature] 10-25-84
 Signature of Developer Date

CERTIFICATION BY THE ENGINEER:
 I 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] 10/25/84
 Signature Date

DEPARTMENT OF PUBLIC WORKS
[Signature] 10/26/84
 Chief, Bureau of Engineering Date

DEPARTMENT OF PLANNING AND ZONING
[Signature] 10/26/84
 Chief, Div. of Land Develop and Zoning Admin. Date

Date	No	HOWARD COUNTY COMMENTS
		Revision Description

STABILIZATION NOTE
 FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 1. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1.
 2. 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland 21044

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21204

AREA VILLAGE OF OWEN BROWN
 SECTION 6, AREA 1, 6TH ELECTION DISTRICT, HOWARD CO, MD

TITLE DRAINAGE AREA MAP,
 EROSION & SEDIMENT CONTROL

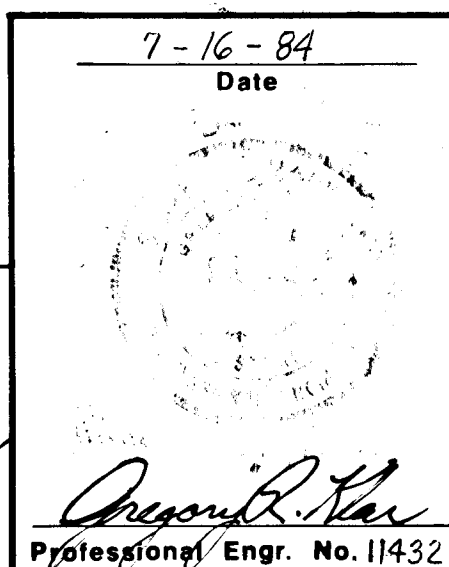
Des By F.T.	Scale 1"=100'	Proj No 1395
Drn By J.A.G.	Date	Drawing No. 6 OF 7
Chk By	Approved	

THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

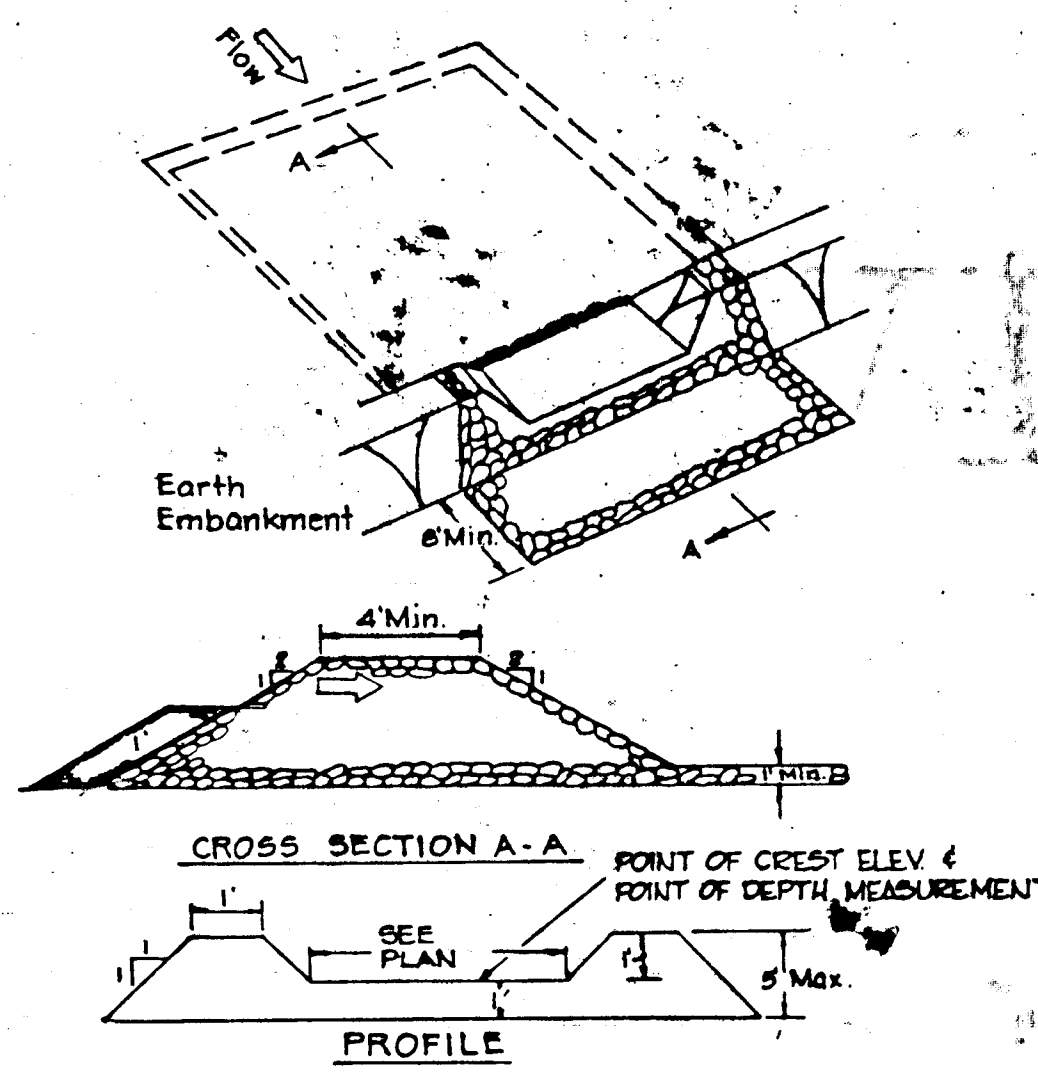
APPROVED:
[Signature] 10-26-84
 Howard Soil Conservation District Date

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

[Signature] 10/26/84
 U.S. Soil Conservation Service Date

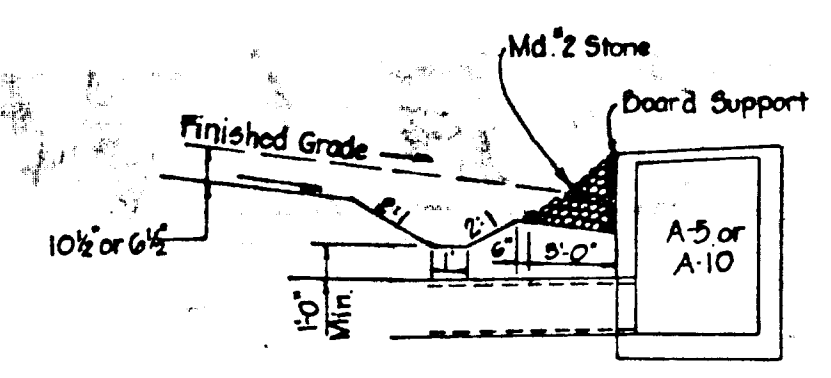
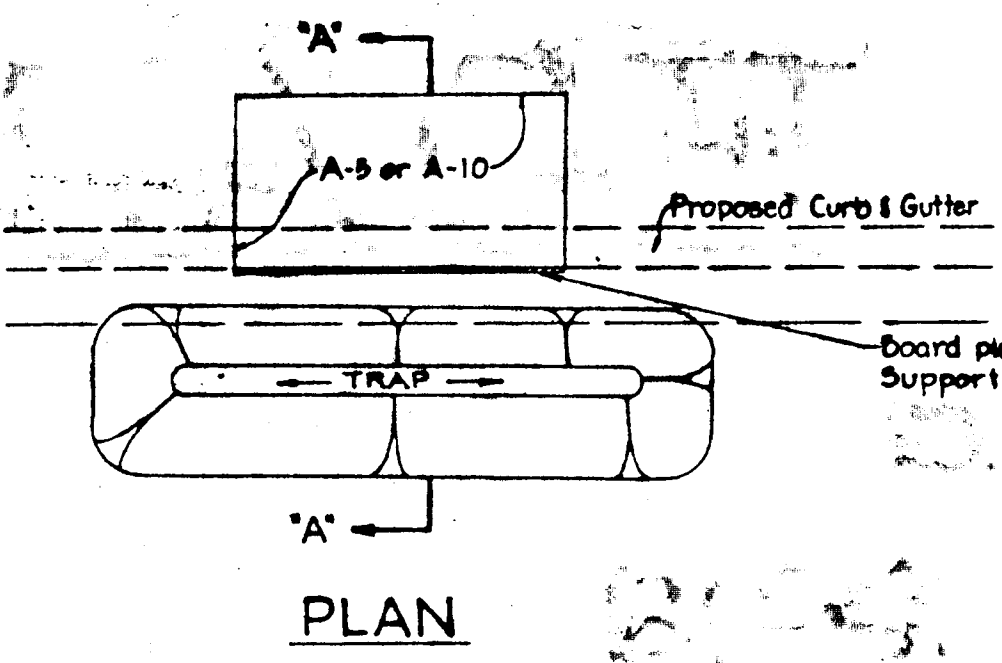


BRUNING 44-132 58864



- Construction Specifications**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
 - The fill material for the embankment shall be free of roots or other woody vegetation as well as over sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 - The structure shall be inspected after each rain and repairs made as needed.
 - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
 - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
 - All cut and fill slopes shall be 2:1 or flatter.
 - The stone used in the outlet shall be small riprap 4" - 7", with a thickness of #2-A crushed stone placed on the up-grade side of the small riprap.
 - Drainage area less than 5 acres.

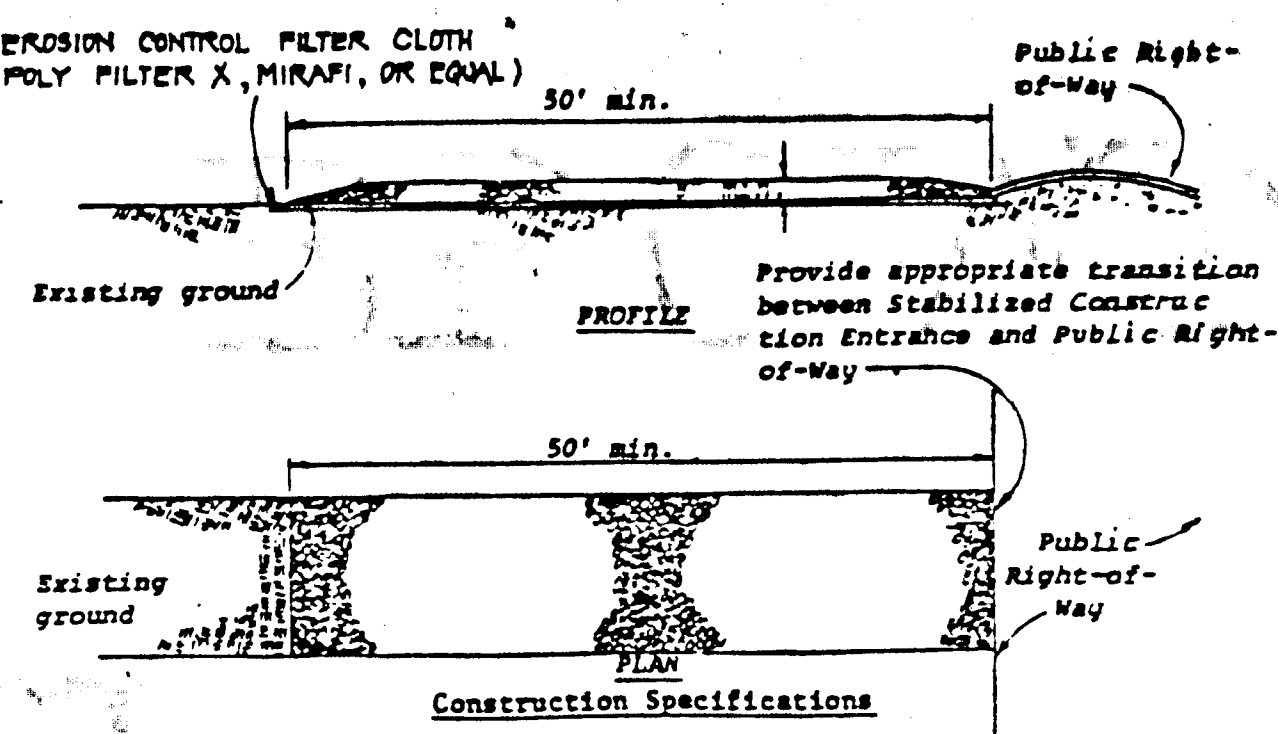
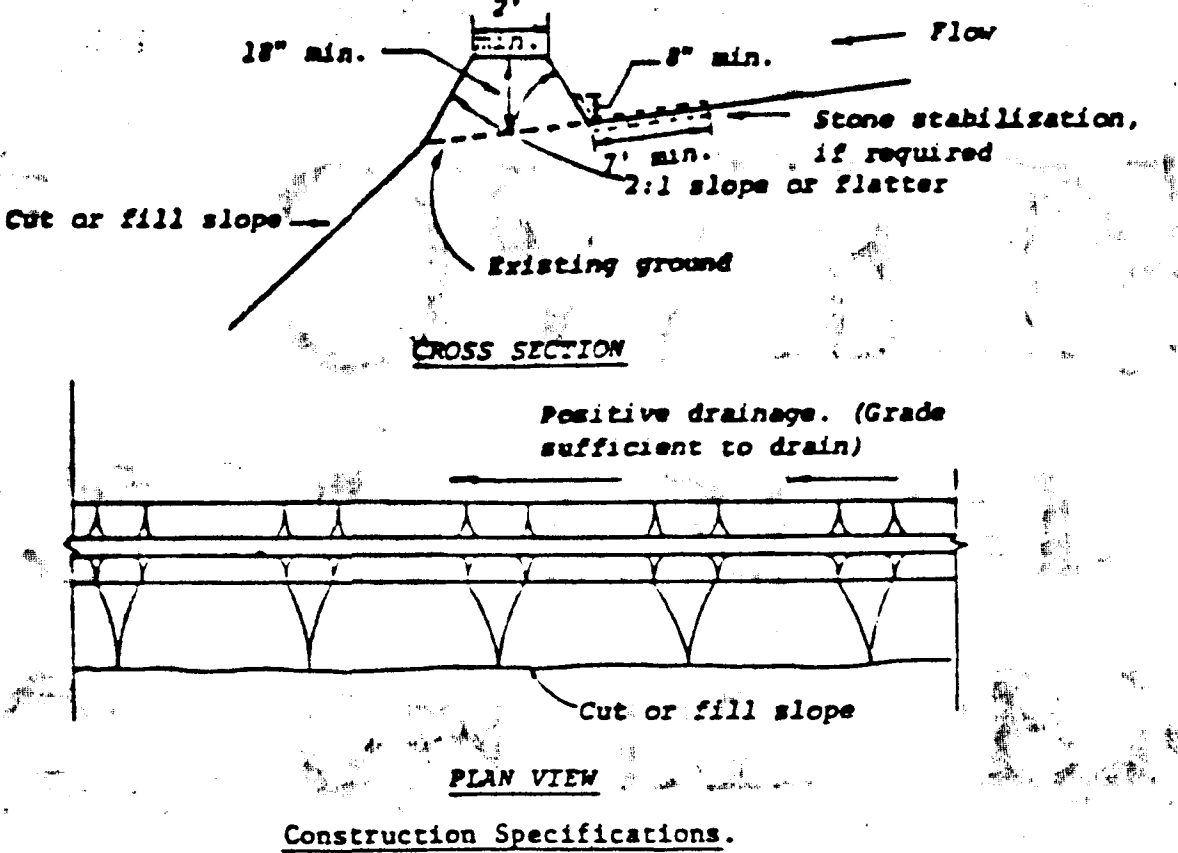
STONE OUTLET SEDIMENT TRAP
NO SCALE



SECTION 'A-A'
INLET BLOCKING DETAIL
NO SCALE

- Construction Specifications**
- All dikes shall be machine compacted.
 - All diversion dikes shall have positive drainage to an outlet.
 - A. Diverted runoff from a protected or stabilized area shall outlet directly to an undisturbed stabilized area or into a level spreader or grade stabilization structure.
B. Diverted runoff from a disturbed or exposed upland area shall be conveyed to a sediment trapping device such as a sediment trap or a sediment basin or to an area protected by any of these practices.
 - Stabilization, as specified by the plans, shall be: (1) in accordance with Standard and Specifications for Grassed Waterway, and the area to be stabilized shall be the channel (flow area); or (2) the flow area shall be lined with stone that meets MSHA size No. 2 or AASHTO M43 size No. 2 or 24 which is placed in a 3 inch thick layer and pressed into the soil. The area covered by the stone shall be as shown on the drawing above.
 - Periodic inspection and required maintenance shall be provided.

DIVERSION DIKE
NO SCALE



- Construction Specifications**
- Stone size - Use MSHA size No. 2 (2-1/2" to 1") or AASHTO designation M43, size No. 2 (2-1/2" to 1-1/2"). Use crushed stone.
 - Length - As effective, but not less than 50 feet.
 - Thickness - Not less than eight (8) inches.
 - Width - Not less than full width of all points of ingress or egress.
 - Washing - When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards or other approved methods.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.

STABILIZED CONSTRUCTION ENTRANCE
NO SCALE

GENERAL NOTES

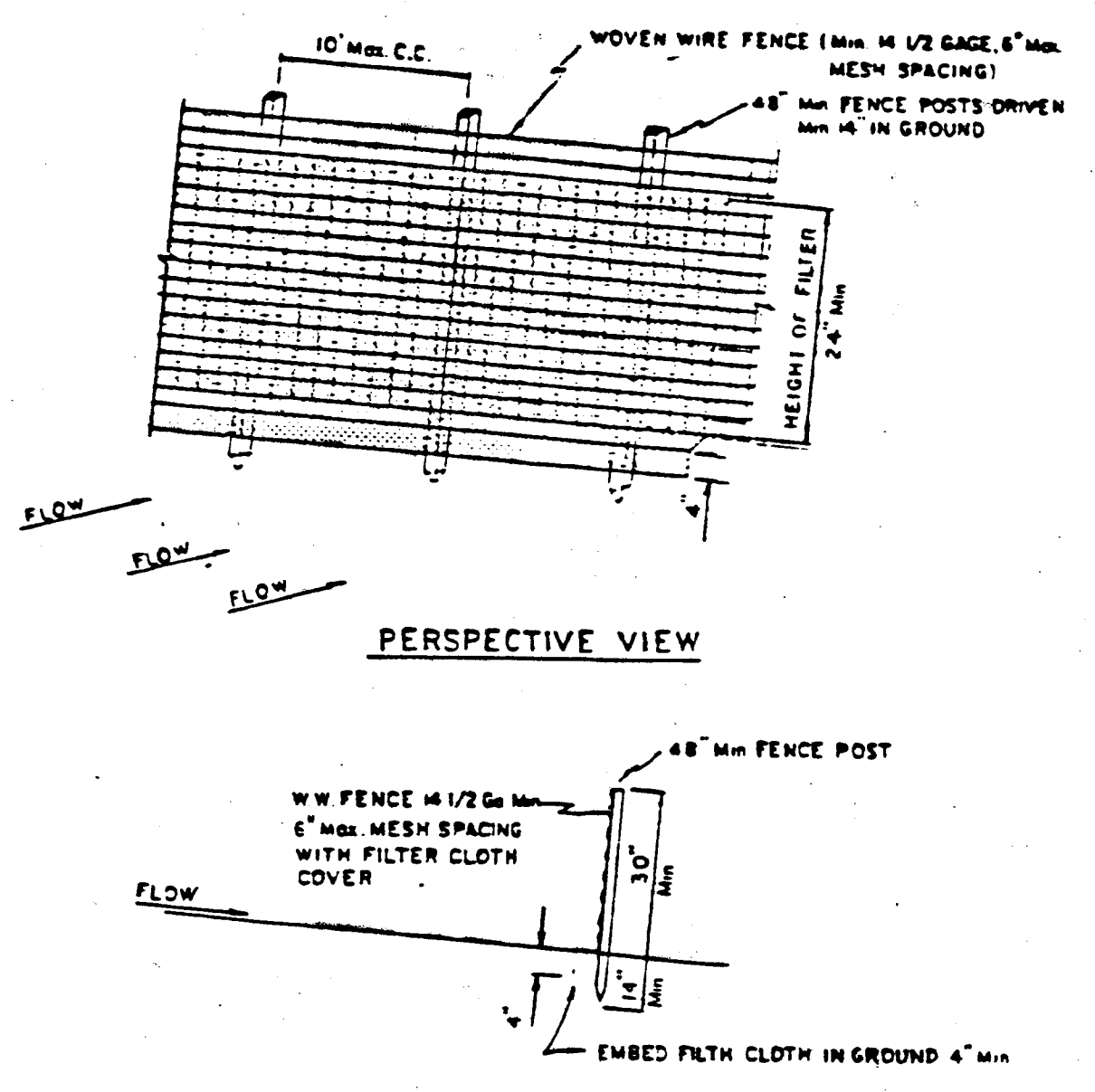
- A MINIMUM 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (1922-2070).
- ALL SEDIMENT CONTROL STRUCTURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- ALL DISTURBED AREAS ARE TO BE DRESSED AND STABILIZED ACCORDING TO THE TEMPORARY OR PERMANENT SEEDING SCHEDULES AS SOON AS PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN THE DEPTH REACHES THE CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- FERTILIZER AND LIME RATES MAY BE CHANGED THROUGH AUTHORIZATION BY THE HOWARD SOIL CONSERVATION DISTRICT IF SOIL TESTS DETERMINE A REDUCTION IN THE SPECIFIED RATES IS JUSTIFIED.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- REFERENCES CALLED FOR ON THE SEDIMENT CONTROL CONSTRUCTION PLAN AND DETAILS ARE MADE TO THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS.

TEMPORARY SEEDING

- AREA TO BE SEEDING SHALL BE RECENTLY LOOSESED. IF THE GROUND IS PACKED, CRUSTED OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSESED, BY RAKING OR OTHER ACCEPTABLE MEANS.
- APPLY 10-20-10 FERTILIZER (OR EQUIVALENT) AT THE RATE OF 15 LBS. PER 1000 SQ. FT.
 - WHERE SOIL IS KNOWN TO BE HIGHLY ACID, APPLY DOLOMITIC LIMESTONE AT THE RATE OF 1 TON PER ACRE.
 - WORK BOTH INTO SOIL AND SEED WITH CYCLOE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY WILL INCLUDE SEED AND FERTILIZER) AT THE RATE OF 80 LBS. PER ACRE OF ITALIAN OR PERENNIAL RYEGRASS.
 - MULCH WITH UNWEATHERED SHALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.

PERMANENT SEEDING

- FINAL STABILIZATION WILL TAKE PLACE AS SOON AS POSSIBLE AS WEATHER CONDITIONS PERMIT, AS FOLLOWS:
- APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE (ONE TON PER ACRE IF APPLICATION OF 1 TON PER ACRE WAS MADE FOR TEMPORARY SEEDING).
 - APPLY 0-20-20 FERTILIZER AT THE RATE OF 600 LBS. PER ACRE. NARROW OR DISC LINE AND 0-20-20 FERTILIZER INTO THE SOIL TO A MINIMUM DEPTH OF 3" LAWS OR HIGH MAINTENANCE AREAS WILL BE DRAGGED AND LEVELED WITH A YORK RAKE. AT THE TIME OF SEEDING APPLY 400 POUNDS OF 30-0-0 UNIFORM FERTILIZER AND 500 LBS. OF 30-20-20 OR EQUIVALENT FERTILIZER PER ACRE.
 - SEED WITH A MIXTURE OF CERTIFIED "MERION" KENTUCKY BLUEGRASS AT 40 LBS. PER ACRE; COMMON KENTUCKY BLUEGRASS AT 40 LBS. PER ACRE; RED FESCUE, PERENIAL OR JAMESSTOWN AT 20 LBS. PER ACRE.
 - MULCH WITH UNWEATHERED SHALL GRAIN STRAW AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE AND ANCHOR WITH A CUTBACK ASPHALT OR EMULSIFIED ASPHALT AT THE RATE OF 5 GAL. PER 1000 SQ. FT.
 - SEED ALL SLOPES WITH A MIXTURE OF CERTIFIED KENTUCKY 31 TALL FESCUE AT 50 LBS. PER ACRE AND IRREGULARLY WORM LEPEDEZA AT 20 LBS. PER ACRE.



- CONSTRUCTION NOTES**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- POSTS STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE WOVEN WIRE 1/2 Gd 6" Max MESH SPACING
FILTER CLOTH, FILTER X MIRAFIL 100X, LAUREL EROSION CONTROL CLOTH BIDIM POLYFILTER X OR EQUAL
- STANDARD SYMBOL → → → *DRAINAGE AREA LESS THAN 1/2 ACRE

SILT FENCE
NO SCALE

Site Analysis:
Area of Site 57.5 Ac.
Area of Vegetation 56.1 Ac.
Area of Paving 1.4 Ac.

THESE PLANS FOR EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *Stephen L. Pugh* 10-25-84
Howard Soil Conservation District Date

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS.
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

Director _____ Date _____
Chief, Bureau of Engineering *[Signature]* 10/30/84 Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

Planning Director _____ Date _____
[Signature] 10/26/84 Date
Chief, Div. of Land Development and Zoning Administration

APPROVED: FOR PUBLIC WATER AND PRIVATE SEWAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT.

County Health Officer _____ Date _____

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

[Signature] 10/23/84 Date
U. S. Soil Conservation Service

CERTIFICATION BY THE DEVELOPER:

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS OF DEVELOPMENT AND PLANS FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT 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.

[Signature] 7/16/84 Date
Signature of Developer

CERTIFICATE BY THE ENGINEER:

"I 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] 7/16/84 Date
Signature

ACCEPTED AND APPROVED FOR CONSTRUCTION BY:

OWNER: _____ DATE: _____
CONTRACTOR: _____ DATE: _____

SEDIMENT CONTROL DETAILS

THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
THE ROUSE COMPANY
Columbia, Maryland

VILLAGE OF OWEN BROWN
Section 6, Area I

6TH ELECTION DISTRICT HOWARD COUNTY, MD

OWNER & DEVELOPER
THE HOWARD RESEARCH AND DEVELOPMENT CORP
THE ROUSE COMPANY
Columbia, Maryland
PREPARED BY
CENTURY ENGINEERING, INC.
32 WEST ROAD
TOWSON, MARYLAND 21284
SCALE: AS SHOWN DRAW NO. OF

