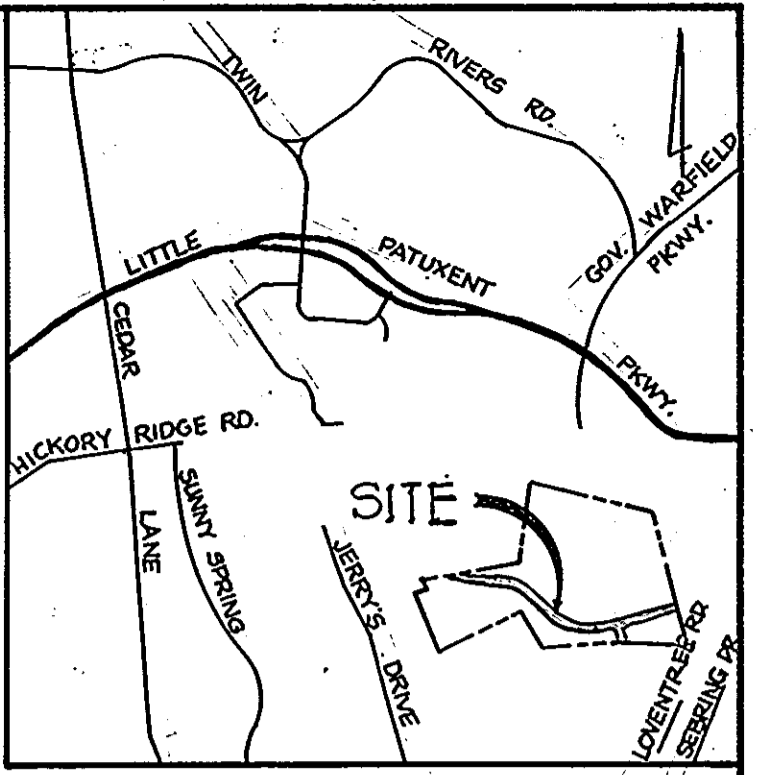


VILLAGE OF HICKORY RIDGE

SECTION 5 AREA 1

5TH. ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



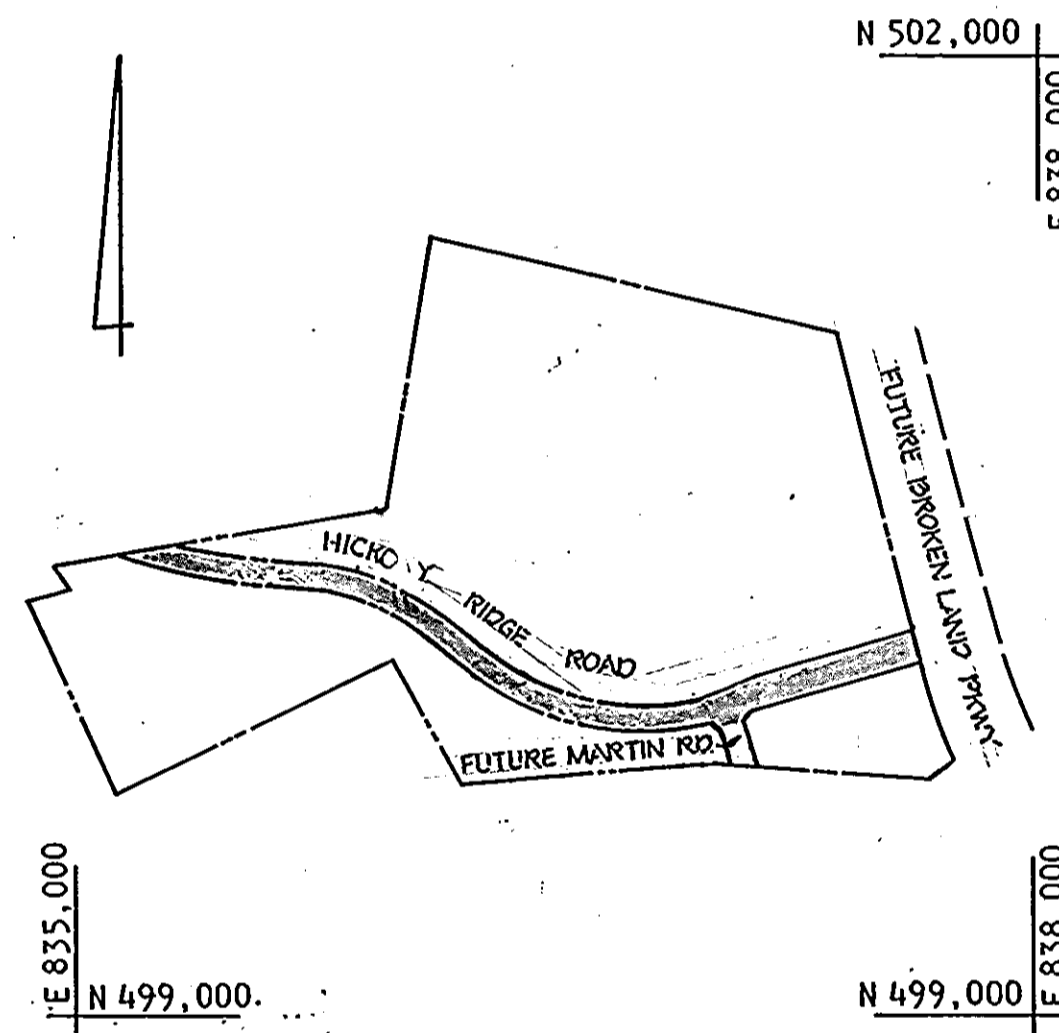
VICINITY MAP
SCALE: 1" = 2000'

BENCH MARKS

- W.R.&A. B.M. #Z-12 ELEV. 350.65
R.R. SPIKE BASE 15" OAK @
TOP STREAM BANK 20'±
PAST P.I. #Z-621
- W.R.&A. B.M. #Z-13 ELEV. 340.93
R.R. SPIKE BASE 15" BEECH
10'± LEFT OF P.I. #Z-623
- CONCRETE MONUMENT STA: 0+75 FUTURE MARTIN RD.
⊕ 40' LT. N 499902.97 ELEV. 384.68
E 837080.69

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. 40 MPH.
- 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.
- REFER TO APPROVED GP 85-36, FOR SEDIMENT CONTROL DEVICES THAT ARE TO BE MAINTAINED DURING CONSTRUCTION OF THIS CONTRACT. SEE DRAWINGS 9, 10 AND 11 FOR ANY REVISIONS REQUIRED BY THIS WORK.
- ALL STORM DRAIN BEDDING TO BE CLASS C EXCEPT WHERE OTHERWISE NOTED.
- STORM WATER MANAGEMENT WILL BE PROVIDED BY A REGIONAL FACILITY TO BE CONSTRUCTED UNDER DEVELOPER AGREEMENT F-85-131.
- 100 YEAR FLOODPLAIN ELEVATIONS ARE BASED ON THE VILLAGE OF HICKORY RIDGE REGIONAL STORM WATER MANAGEMENT REPORT PREPARED BY CENTURY ENGINEERING, INC.
- STREET TREES (128 TOTAL)
THE LOCATION, TYPE AND NUMBER OF TREES SHOWN ON THIS PLAN ARE TENTATIVE AND ARE USED FOR BOND PURPOSES ONLY. THE FINAL LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND BUILDERS LANDSCAPE PROGRAM. BOND RELEASE IS CONTINGENT UPON SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS, AS APPROVED BY THE OFFICE OF PLANNING AND ZONING.



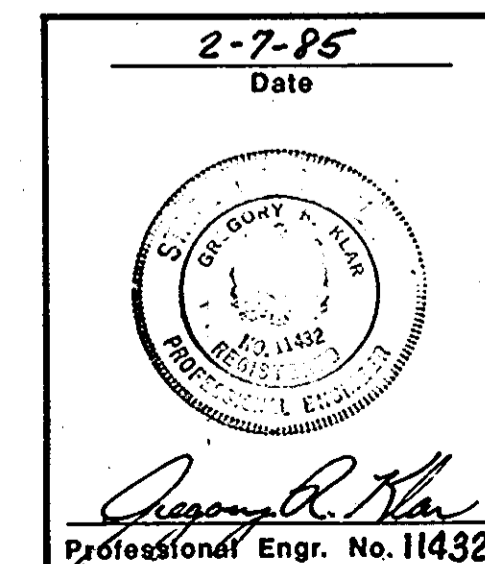
PLAN

SCALE: 1" = 600'

As-Built Survey 7/12/86

NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SECTIONS AND MISCELLANEOUS DETAILS
3	PLAN AND PROFILE - STA. 35+80.85 TO STA. 46+81.92
4	PLAN AND PROFILE - STA. 46+81.92 TO STA. 57+00
5	PLAN AND PROFILE - STA. 57+00 TO STA. 62+30
6	STORM DRAIN PROFILES
7	STORM DRAIN PROFILES
8	DRAINAGE AREA MAP
9	GRADING AND SEDIMENT CONTROL PLAN
10	GRADING AND SEDIMENT CONTROL PLAN
11	SEDIMENT CONTROL NOTES AND DETAIL

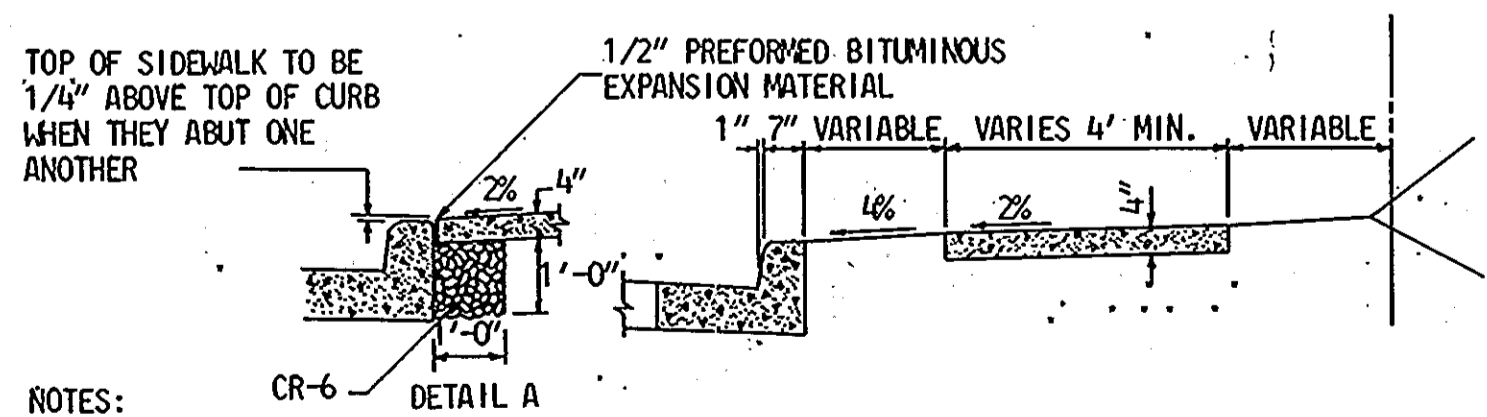
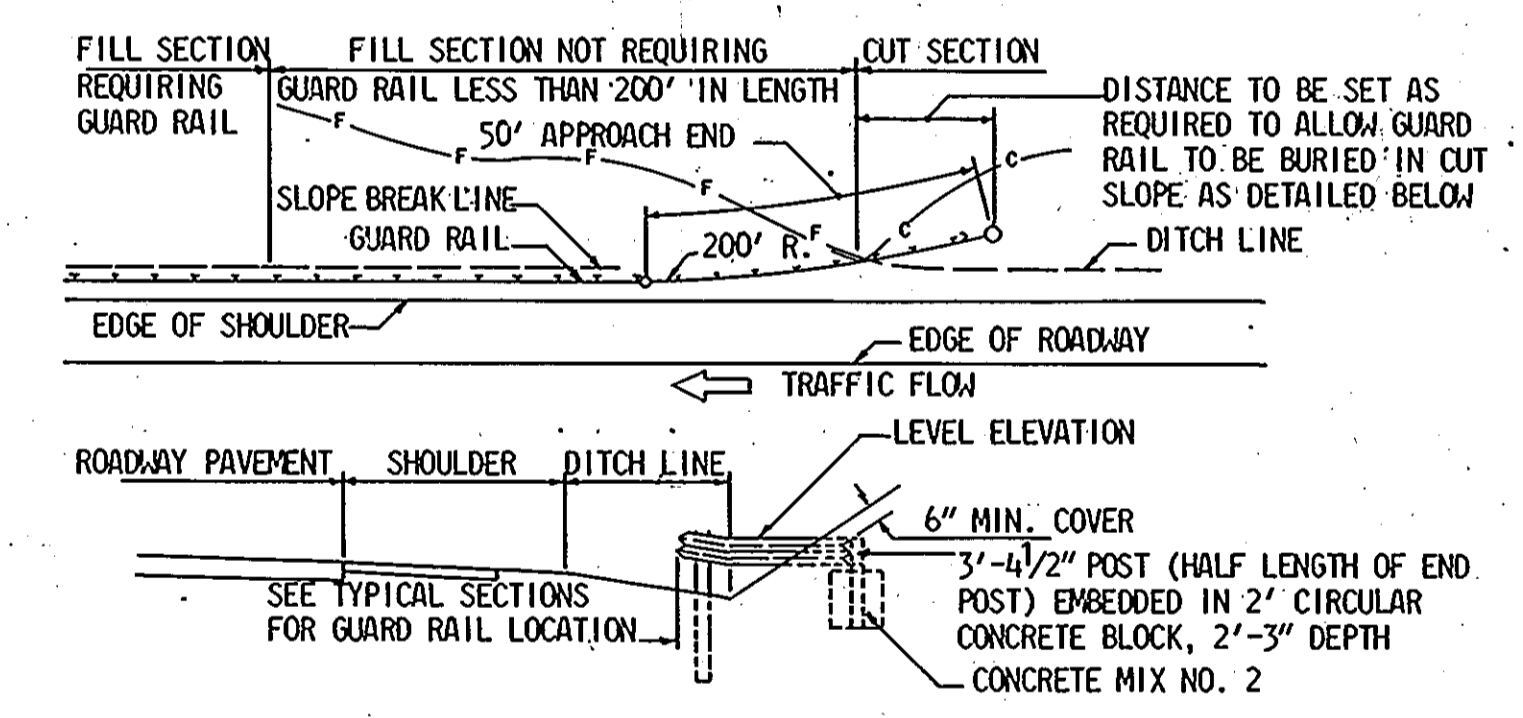
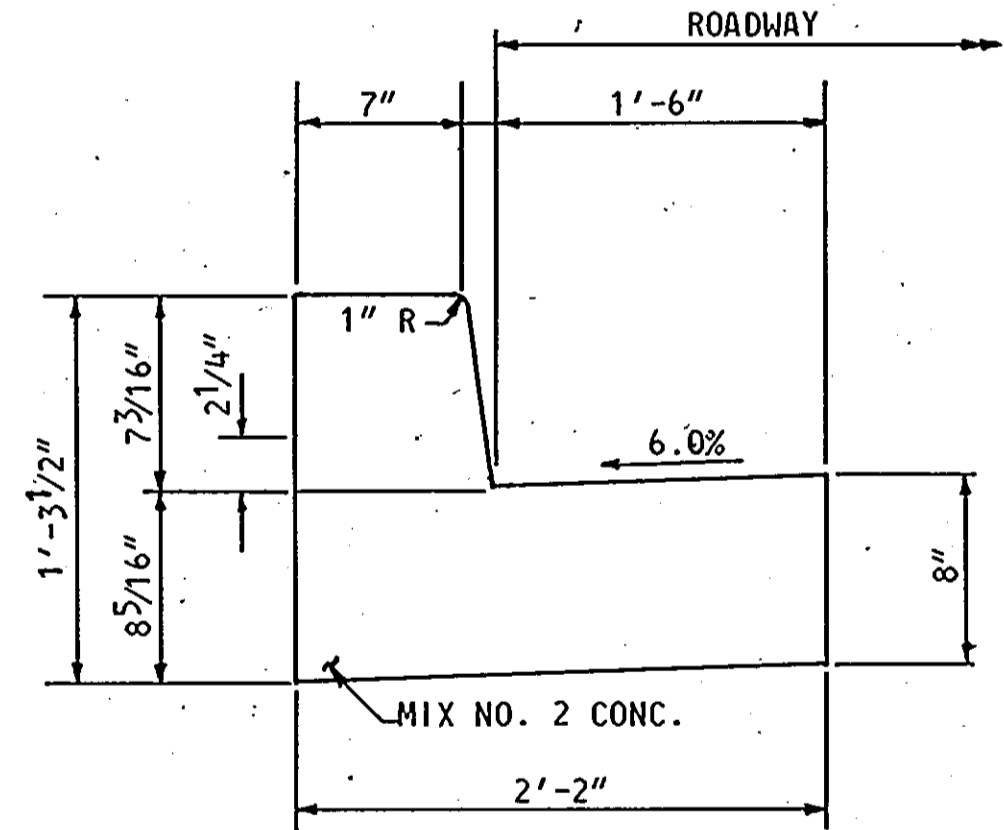
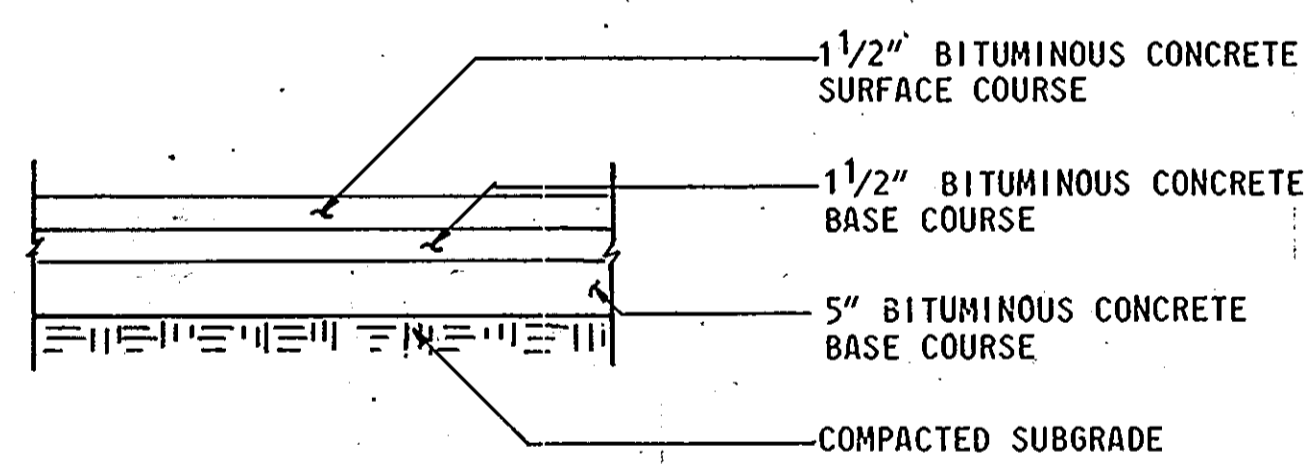
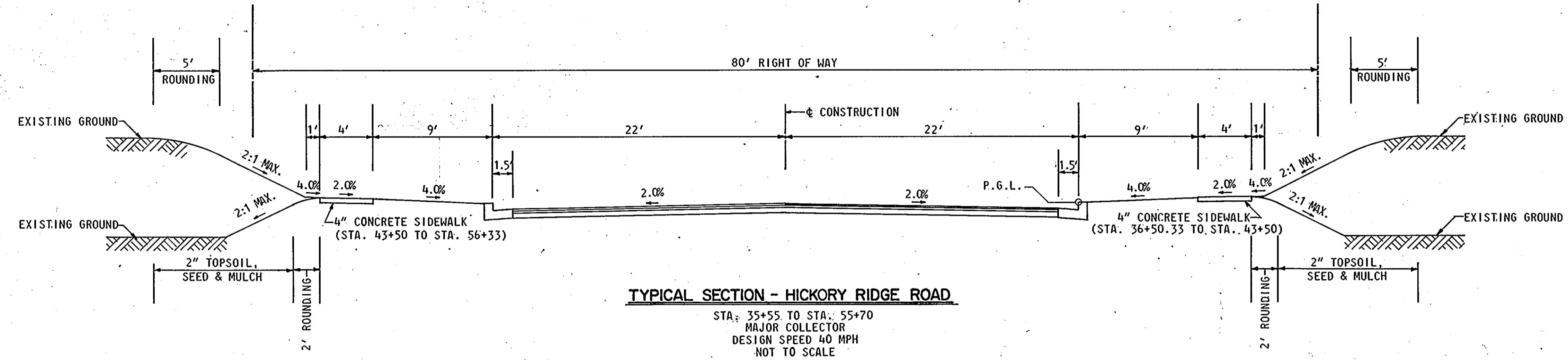
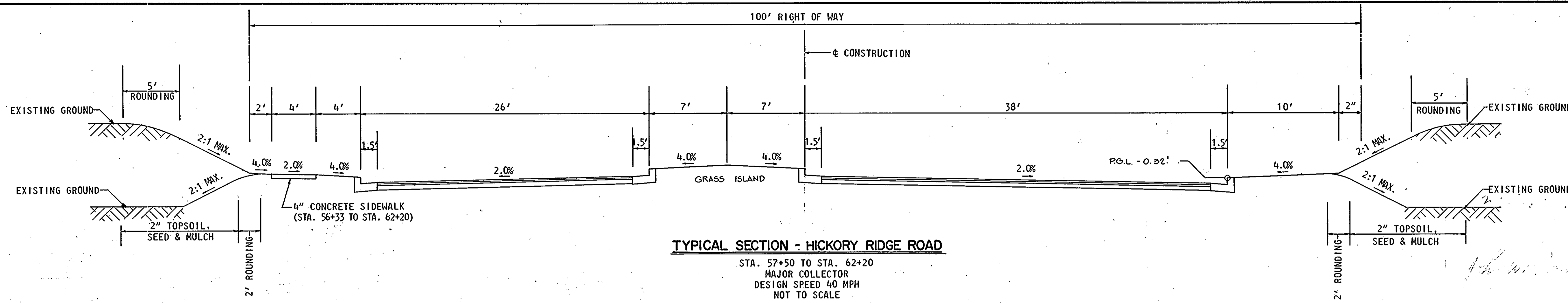
AS-BUILT SURVEY CERTIFIED BY GREGORY D. KLATZ REG-RE. NO. 11432 ON FEB. 7, 1985



DEPARTMENT OF PUBLIC WORKS		DATE	
950000 2 20 5/11/85 CHIEF, BUREAU OF ENGINEERING		DATE	
DEPARTMENT OF PLANNING AND ZONING		DATE	
598 CHIEF, DIV. OF LAND DEVELOP. & ZONING ADH.		DATE	
7-15-85	1	Add Sidewalk per 7/11/85 Tom Harris Letter	
Date	No	Revision Description	
OWNER AND DEVELOPER			
THE HOWARD RESEARCH AND DEVELOPMENT CORP. THE ROUSE COMPANY COLUMBIA, MARYLAND			
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS - PLANNERS TOWSON, MARYLAND 21204			
AREA			
VILLAGE OF HICKORY RIDGE SECTION 5 AREA 1 5TH ELECTION DISTRICT, HOWARD CO., MD.			
TITLE			
TITLE SHEET			
Des By	Scale	AS SHOWN	Proj No 84-1342
Drn By A.E.B.	Date	6 FEB-85	Drawing No.
Chk By	Approved		1 OF 11

AS-BUILT F-85-101

#42



- NOTES:
- SIDEWALK TO BE SCRIBED IN 5' MAXIMUM SQUARES.
 - EXPANSION JOINTS ACROSS THE SIDEWALK NOT TO BE MORE THAN 15' APART.
 - 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL IN EXPANSION JOINTS TO BE KEPT 1/4" BELOW SURFACE OF SIDEWALK.
 - CONCRETE TO BE MIX NO. 2.
 - WHEN SIDEWALK ABUTS CURB, WALK SHALL BE 1/4" ABOVE CURB WITH 1/2" PREFORMED BITUMINOUS EXPANSION MATERIAL. BETWEEN SIDEWALK AND CURB AND RESTING ON A COMPACTED CRUSHED STONE BASE. SEE DETAIL A THIS SHEET.
 - ON LONGITUDINAL SIDEWALK GRADES OF 5% OR GREATER, A CONCRETE HEADER, 6" THICK AND 6" DEEP BELOW THE NORMAL 4" SIDEWALK THICKNESS SHALL BE CONSTRUCTED FOR THE FULL WIDTH OF THE SIDEWALK AT INTERVALS OF 48 FEET. THE HEADERS SHALL BE PLACED AT EXPANSION JOINT LOCATIONS AND SHALL BE MONOLITHIC WITH THE SIDEWALK.

- NOTES:
- APPROACH END IS SHOWN. TRAIL END ARRANGEMENT TO BE SIMILAR.
 - APPROACH END TO BE FLARED AT NORMAL ELEVATION FROM SHOULDER TO DITCH LINE AND EXTENDED AT LEVEL ELEVATION INTO CUT BACKSLOPE AND ANCHORED WITH POST AND CONCRETE BLOCK TO END GUARD RAIL. THE CONTRACTOR SHALL ADJUST THE PLACEMENT OF POSTS WHERE NECESSARY TO AVOID POSTS BEING INSTALLED IN THE CENTER OF THE DITCH.
 - THE COST OF THE CONCRETE BLOCK TO BE INCIDENTAL TO THE ITEM - GUARD RAIL W/BEAM.

DEPARTMENT OF PUBLIC WORKS
Richard P. Ryan 5-14-85
 CHIEF, BUREAU OF ENGINEERING
 DEPARTMENT OF PLANNING AND ZONING
John W. Muschman 5-9-85
 CHIEF, DIV. OF LAND DEVEL. AND ZONING ADM.

Date	No	Revision	Description

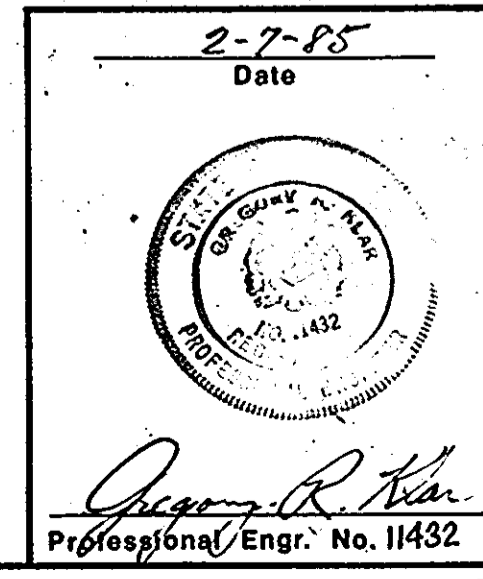
OWNER AND DEVELOPER
 THE HOWARD COUNTY DEVELOPMENT CORP.
 THE ROUSE COMPANY
 COLUMBIA, MARYLAND

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

AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 5 AREA 1
 5TH ELECTION DISTRICT, HOWARD CO., MD.

TITLE
 TYPICAL SECTIONS AND MISCELLANEOUS DETAILS

Des By	A.E.B.	Scale	AS SHOWN	Proj No	84-1842
Drn By	A.E.B.	Date	6 FEB 85	Drawing No.	2 OF 11
Chk By	G.R.K.	Approved			



AS BUILT

F-85-101

#42

STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEVATION	REMARKS
I-1	41+25	22' LT	A-5	399.44	912-4.01
I-2	37+75	22' LT	A-5	391.14	912-4.01
I-3	37+75	22' RT	A-5	391.00	912-4.01
I-4	41+25	22' RT	A-5 w/ DEF'L	399.48	912-4.01
I-5	44+25 (M)	22' RT	A-10	384.11	912-4.02
I-6	44+25 J	22' LT	A-5	384.70	912-4.01
E-1	41+25	65' 08' LT	CMP. End Sect	378.34	912-5.61

NOTE: TOP OF STRUCTURE ELEVATIONS ARE SET AT CENTER OF STRUCTURES. MATCH TOP OF STRUCTURE SLOPE TO CURB LINE SLOPE FOR ALL TYPE A INLETS.

DEPARTMENT OF PUBLIC WORKS
William R. Ray 5/11/85
 CHIEF, BUREAU OF ENGINEERING

DEPARTMENT OF PLANNING AND ZONING
John W. Muehlen 5-9-85
 CHIEF, DIV. OF LAND DEVEL. AND ZONING ADM.

Date: 7-6-85 No. 1 Add Sidewalks per 7/11/85 Tom Harris Letter
 Revision Description

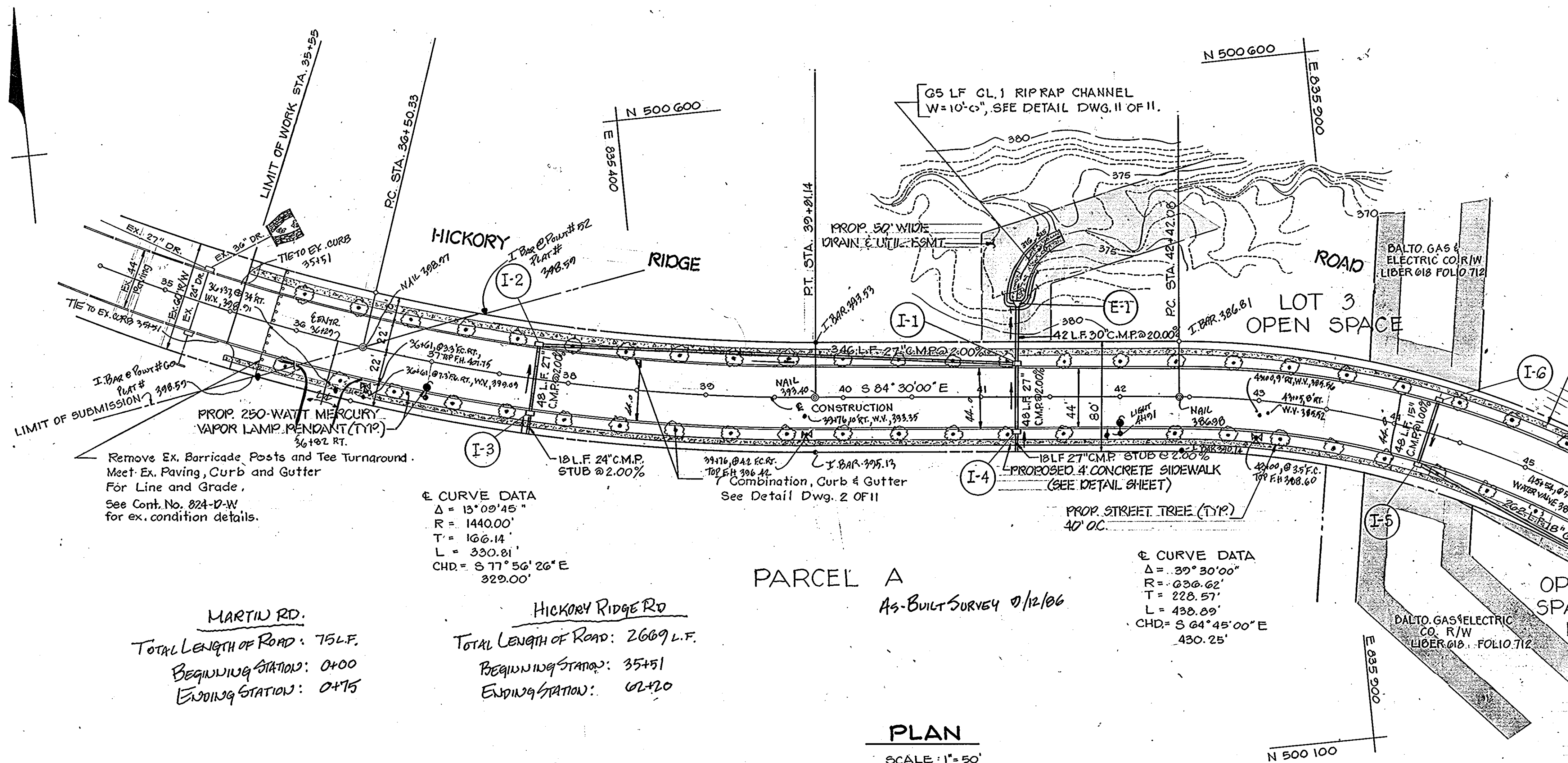
Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland 21044

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

AREA: VILLAGE OF HICKORY RIDGE SECTION 5 AREA I
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: HICKORY RIDGE ROAD PLAN AND PROFILE

Des By G.D.Z. Scale AS SHOWN Proj No 84-1342
 Dwn By G.D.Z. Date 2-6-85
 Chk By G.R.K. Approved

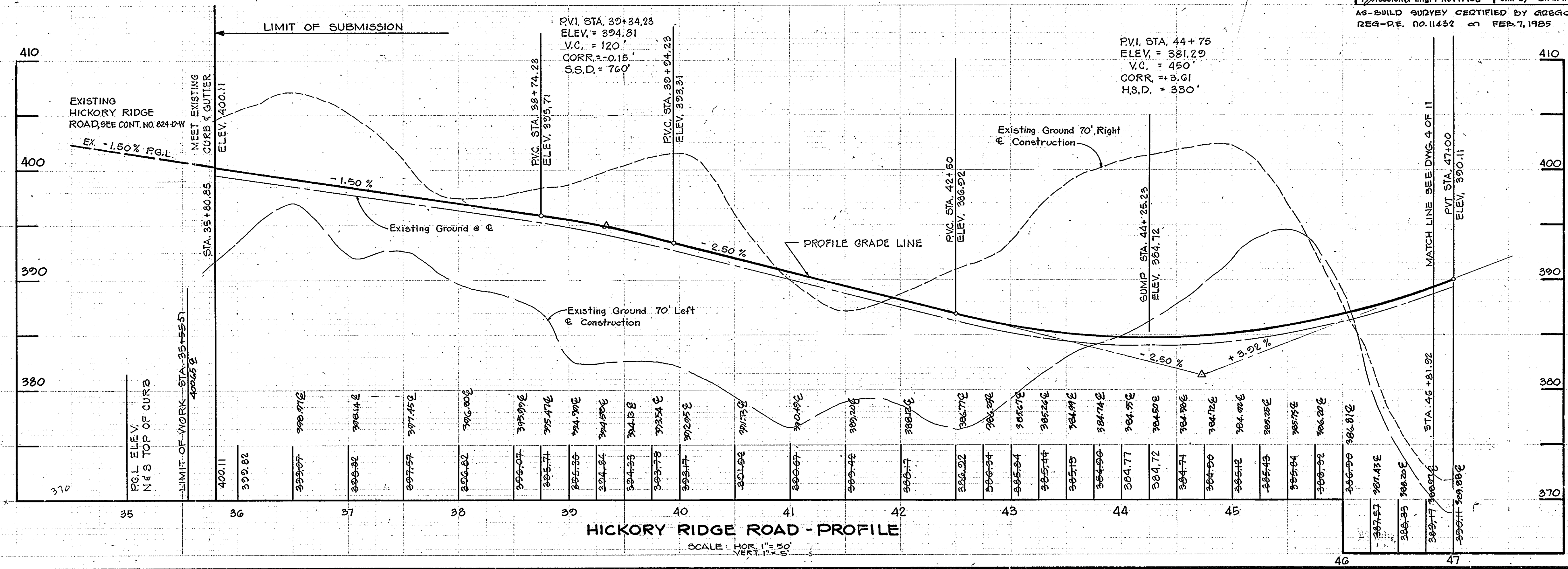


MARTIN RD.
 Total Length of Road: 751.6'
 Beginning Station: 0+00
 Ending Station: 0+75

Hickory Ridge Rd
 Total Length of Road: 2669 L.F.
 Beginning Station: 35+51
 Ending Station: 62+20

PLAN
 SCALE: 1" = 50'

Professional Engr. No. 11432
 AS-BUILT SURVEY CERTIFIED BY GREGORY R. KLAR
 REG-P.E. No. 11432 on FEB. 7, 1985



HICKORY RIDGE ROAD - PROFILE
 SCALE: HOR 1" = 50', VERT. 1" = 5'

DATE	
BY	
NO.	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY	
NO.	

DATE	
BY	
NO.	
PROFILE	
SURVEYED	
GRADES	
CHECKED	
STRUCTURE	
NOTATIONS	
CHKS	
NO.	

STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEVATION	REMARKS
I-7	47+75	22' LT.	A-5 w/DEF'L.	399.05	S.D. 4.01
I-8	47+75	22' RT.	A-5	399.05	S.D. 4.01
I-11	55+40	22' RT.	A-5 w/DEF'L.	392.75	S.D. 4.01
I-12	55+40	22' LT.	A-5 w/DEF'L.	392.75	S.D. 4.01
E-3	47+02.6	0	CMP. End Sect.	370.50	S.D. 5.01
E-4	46+96.7	0	CMP. End Sect.	377.10	S.D. 5.01
MH-1	46+22.3	25' LT.	BRICK MH	392.15	G-3.09

NOTE: TOP OF STRUCTURE ELEVATIONS ARE SET AT CENTER OF STRUCTURES. MATCH TOP OF STRUCTURE SLOPE TO CURB LINE SLOPE FOR ALL TYPE A INLETS.

DEPARTMENT OF PUBLIC WORKS

DATE 12-14-85
 CHIEF, BUREAU OF ENGINEERING

DEPARTMENT OF PLANNING AND ZONING
 DATE 5-9-85
 CHIEF, DIV. OF LAND DEVELOP. AND ZONING ADM.

Date	No.	Revision Description
7/15/85	1	Add Sidewalk per 7/12/85 Tom Harris Letter

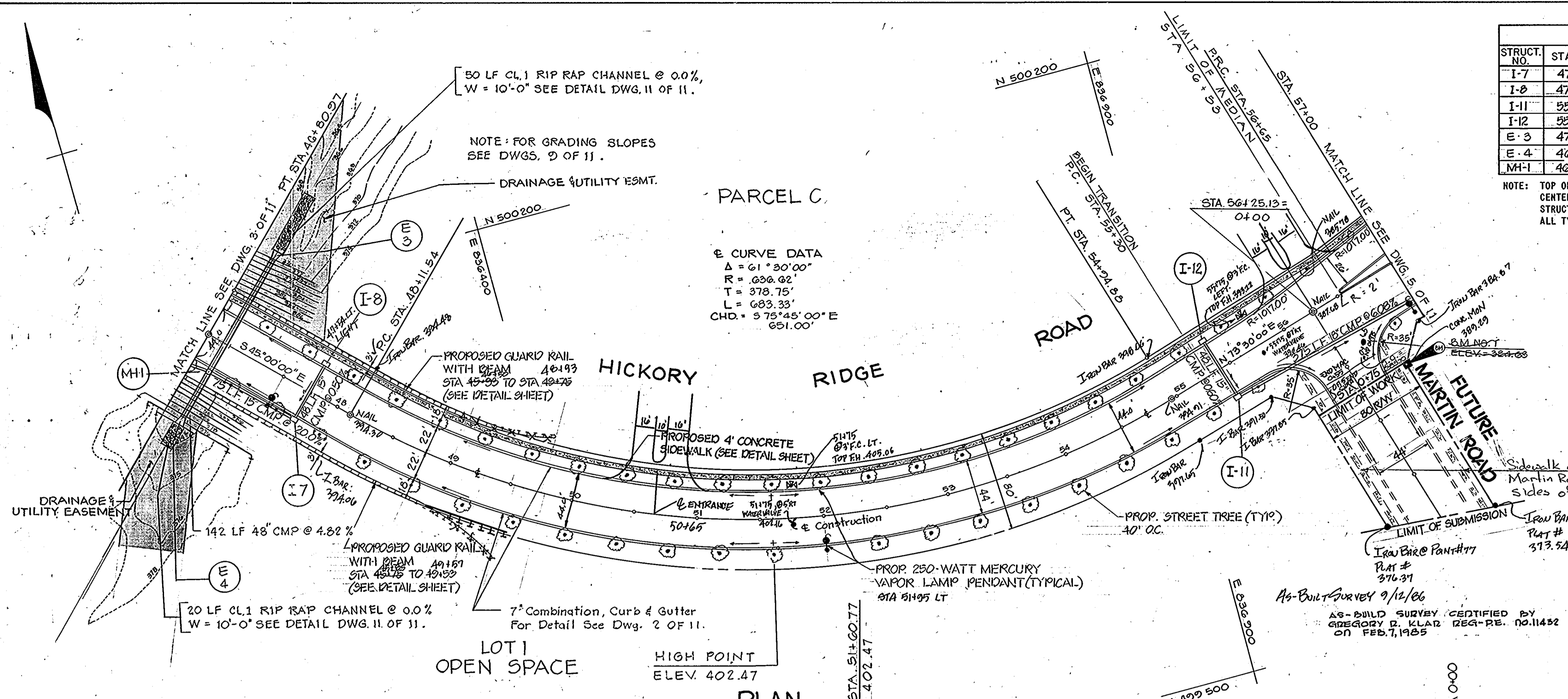
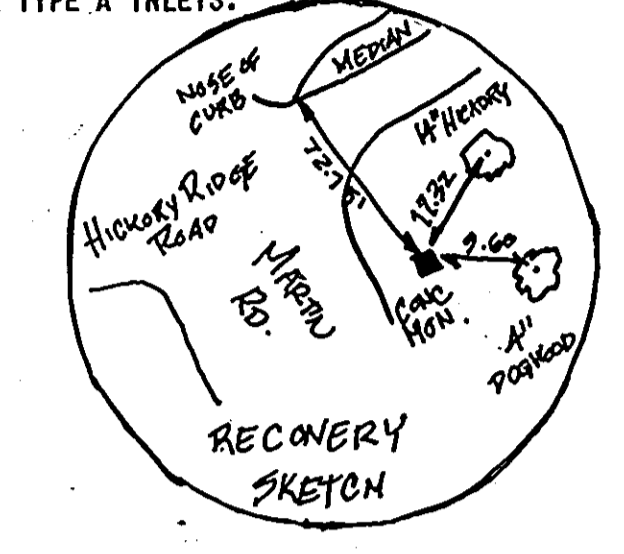
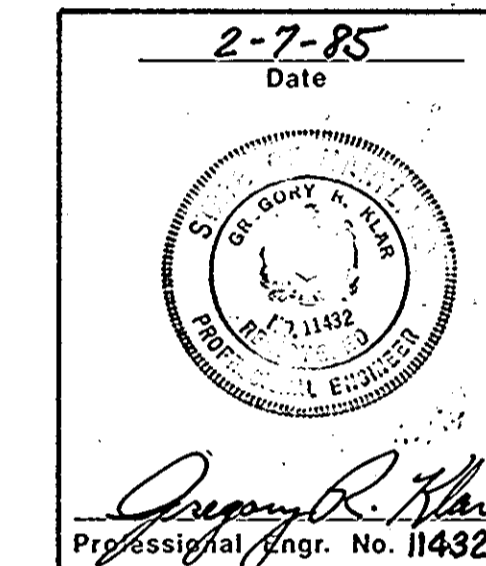
Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland 21044

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

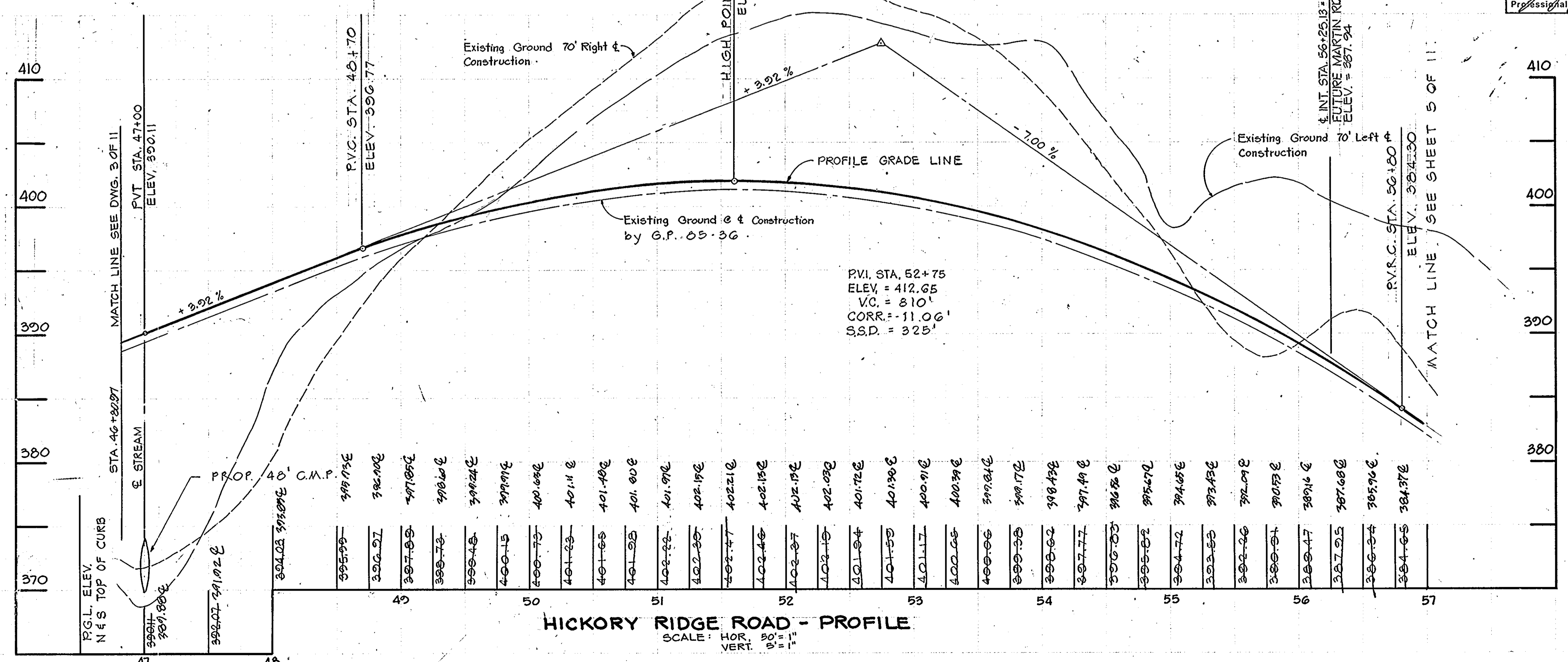
AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 5 AREA I
 5TH ELECTION DISTRICT HOWARD CO., MD.

TITLE
 HICKORY RIDGE ROAD
 PLAN AND PROFILE

Des By G.B.Z.	Scale AS SHOWN	Proj No 84-1342
Drn By G.B.Z.	Date 6 FEB 85	
Chk By G.R.K.	Approved	



PLAN
 SCALE: 1"=50'



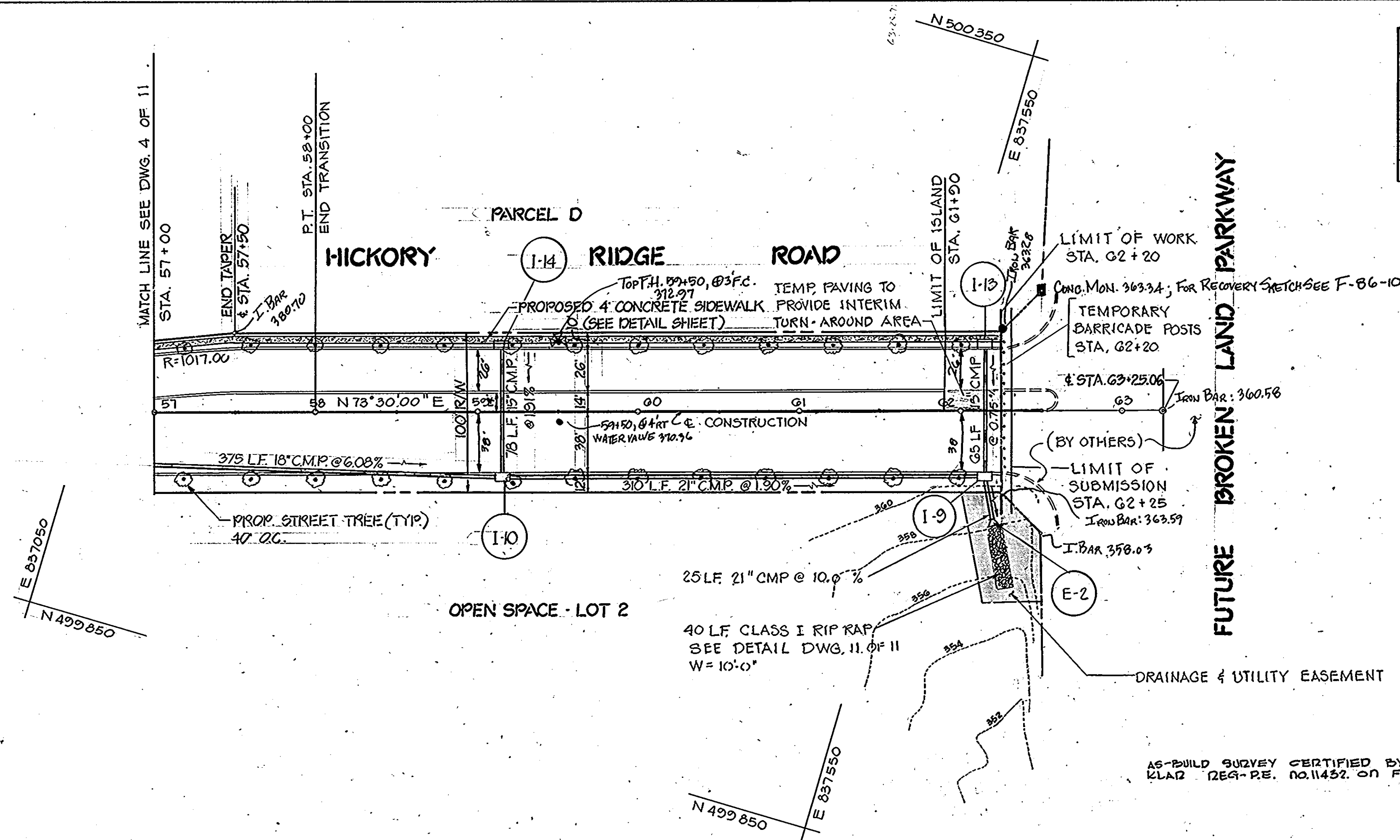
HICKORY RIDGE ROAD - PROFILE
 SCALE: HOR. 50' = 1" VERT. 5" = 1'

DATE	BY

DATE	BY

DATE	
BY	
SURVEYED	
ALIGNED	
PLANNED	
NOTED	
RT. OF WAY CHECKED	
NO.	

DATE	
BY	
SURVEYED	
ALIGNED	
PLANNED	
NOTED	
STRUCTURE NOTATION CHKD	
NO.	



STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEVATION	REMARKS
I-9	62+15	30' RT	A-5 w/DEFL.	364-22.115	SD-4.01
I-10	59+15	30' RT	A-10	371-72.115	SD-4.02
I-10	62+15	40' LT	A-5 w/DEFL.	364-22.115	SD-4.01
I-14	59+15	40' LT	A-5 w/DEFL.	371-72.115	SD-4.01
E-2	62+19.5	65' 8\"/>			

NOTE: TOP OF STRUCTURE ELEVATIONS ARE SET AT CENTER OF STRUCTURES. MATCH TOP OF STRUCTURE SLOPE TO CURB LINE SLOPE FOR ALL TYPE A INLETS.

DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Engineering
 DEPARTMENT OF PLANNING AND ZONING
 Chief, Div. of Land Devel. and Zoning Adm.

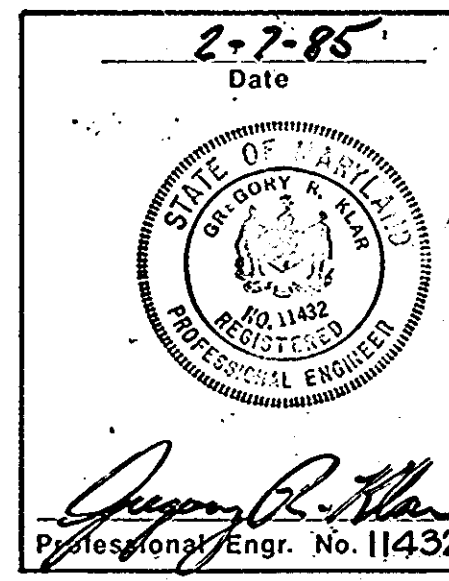
Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland 21044

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

AREA
 VILLAGE OF HICKORY RIDGE
 SECTION 5 AREA 1
 5TH ELECTION DISTRICT HOWARD CO., MD.

TITLE
 HICKORY RIDGE ROAD
 PLAN AND PROFILE

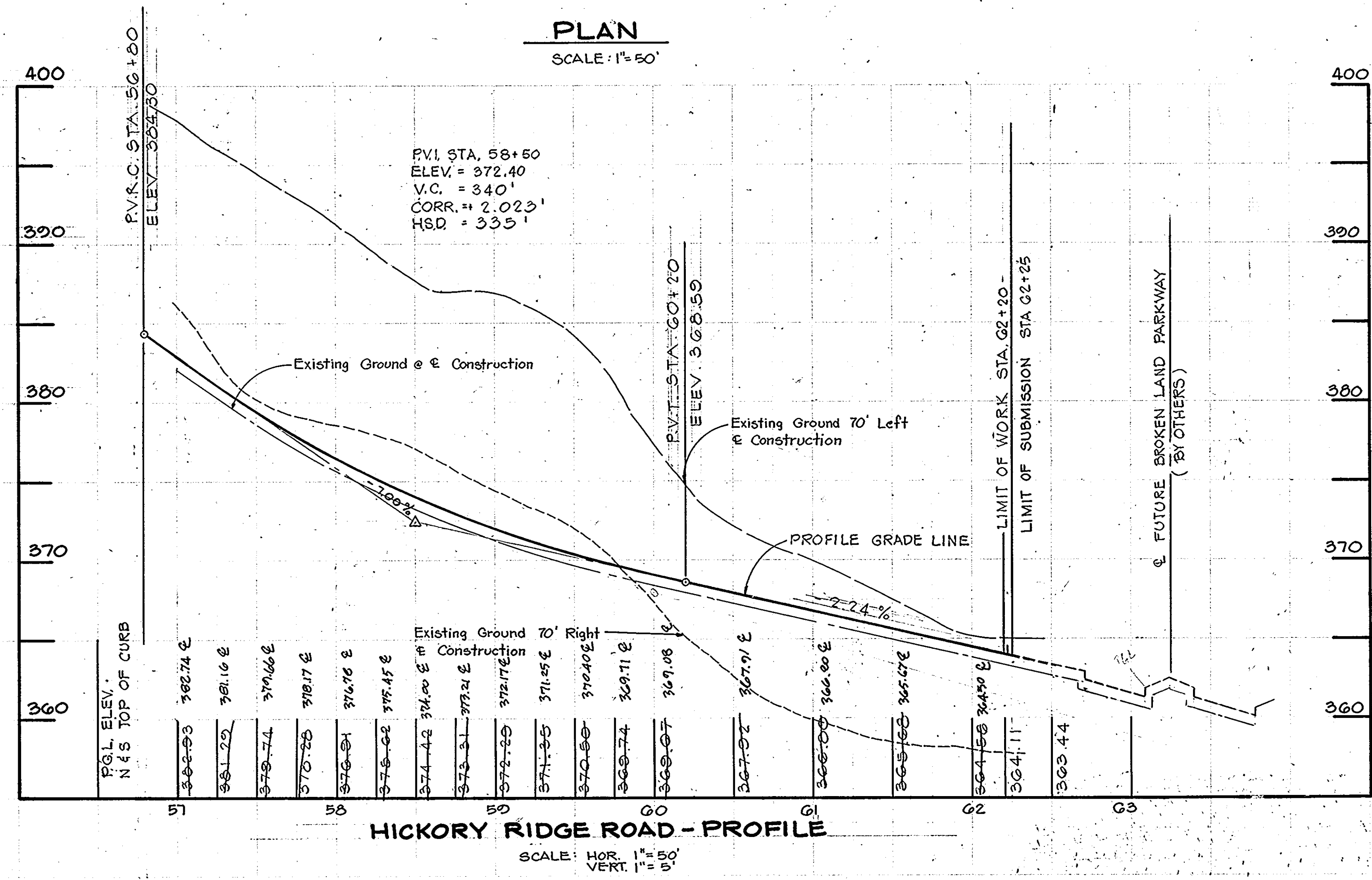
Des By G.B.Z. Scale AS SHOWN Proj No 84-1342
 Dwn By G.B.Z. Date 2-5-85
 Chk By G.R.K. Approved



AS-BUILT SURVEY 9/12/86

AS-BUILT SURVEY CERTIFIED BY GREGORY D. KLAR REG.-P.E. NO. 11432 ON FEB. 7, 1985

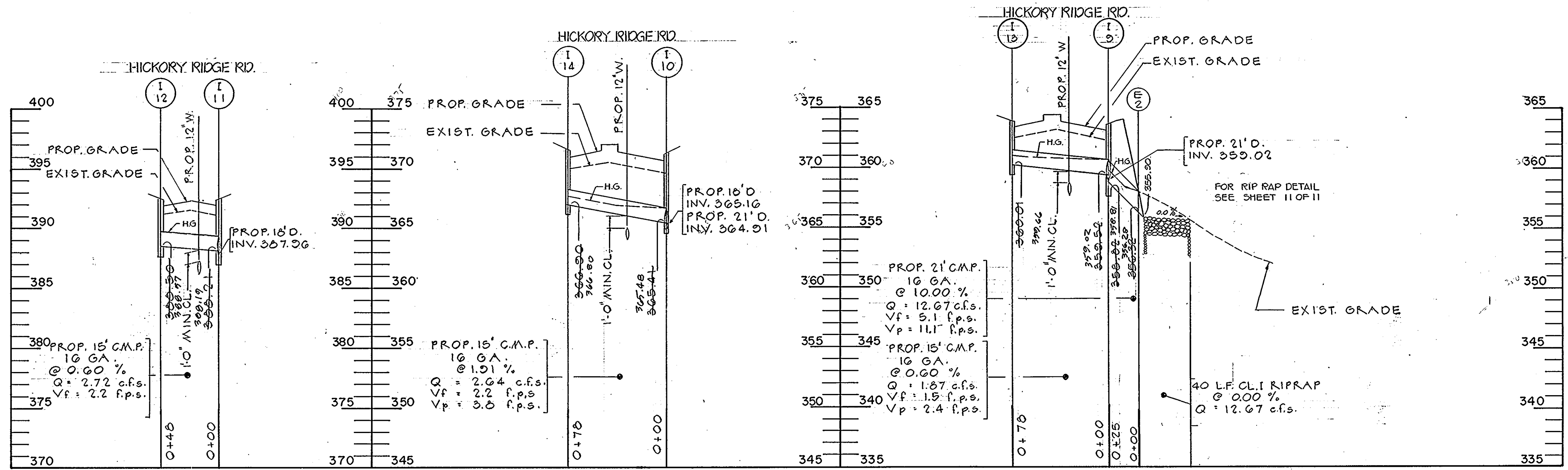
PLAN
 SCALE: 1" = 50'



HICKORY RIDGE ROAD - PROFILE
 SCALE: HOR. 1" = 50'
 VERT. 1" = 5'

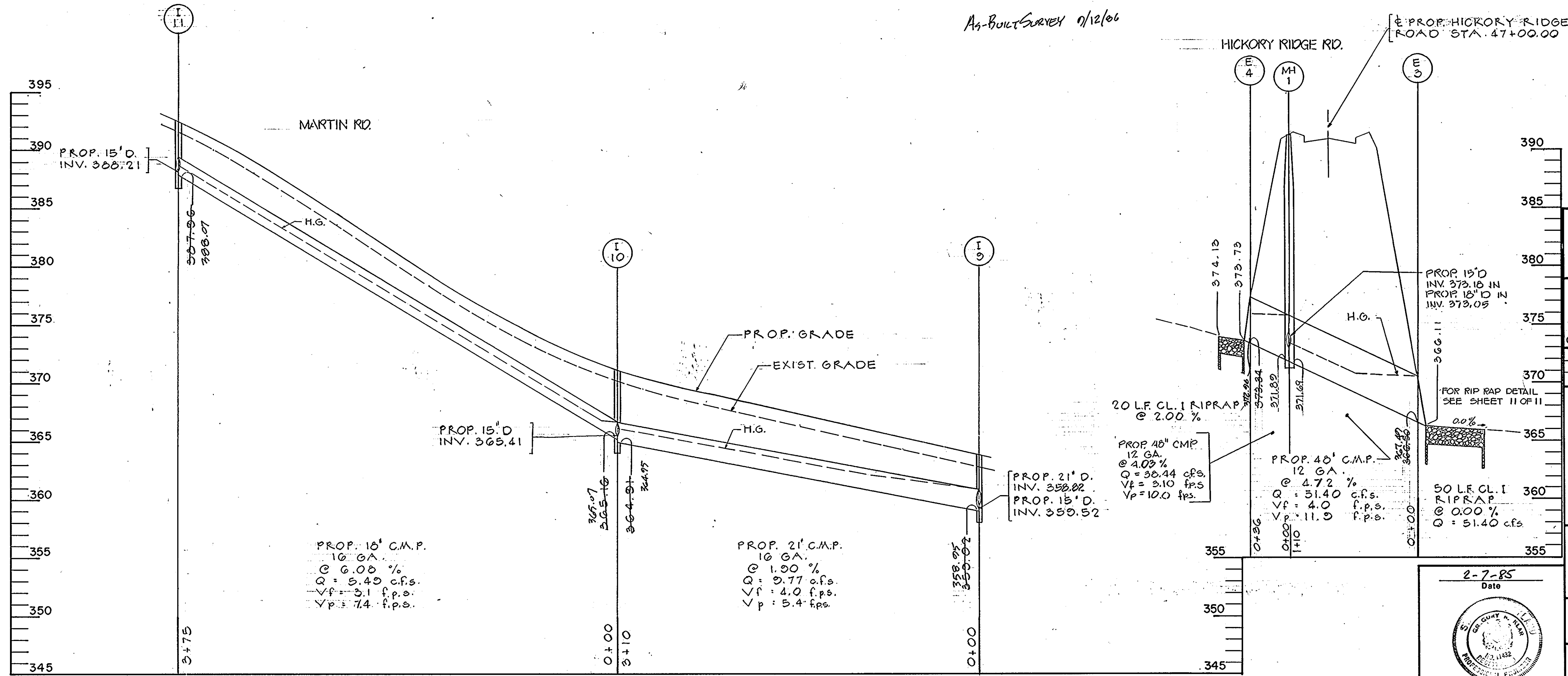
#42

BRUNING 44-132 2886



STORM DRAIN PROFILES

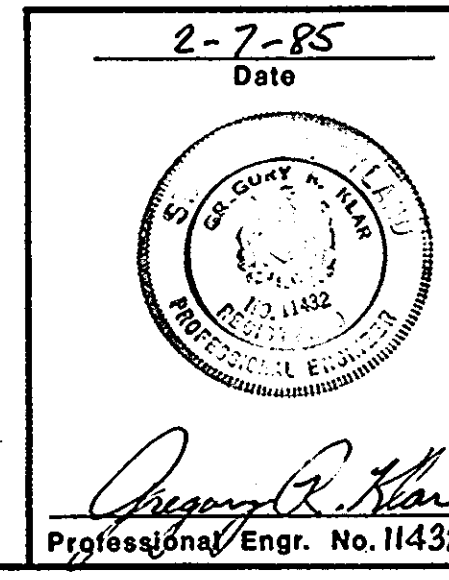
SCALE: 1" = 50' HORZ.
1" = 5' VERT.



STORM DRAIN PROFILES

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

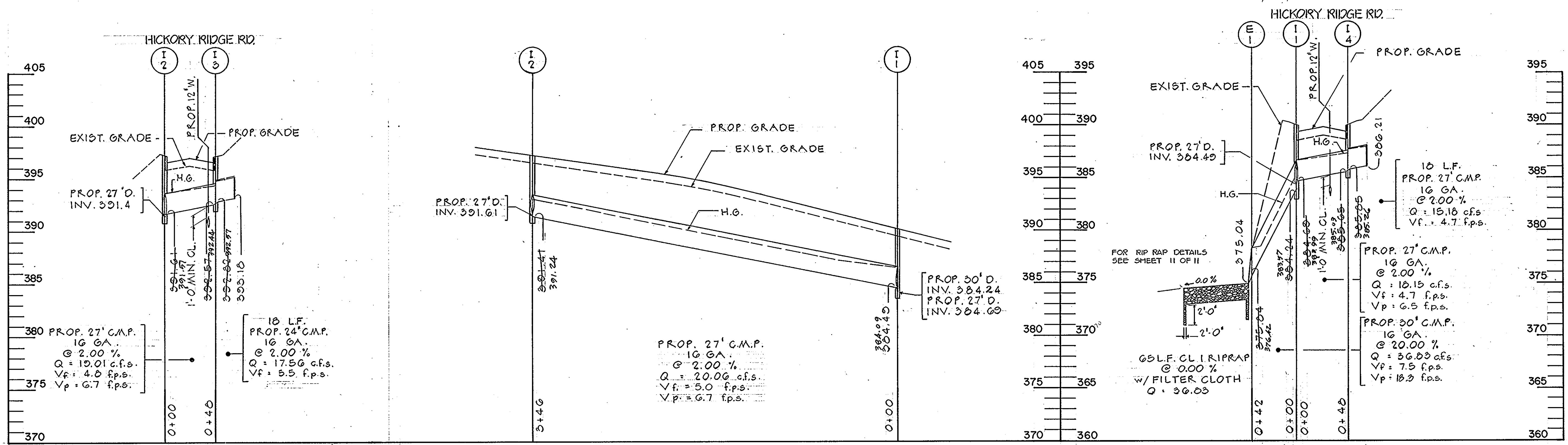
AS-BUILT SURVEY CERTIFIED BY GREGORY R. KLAR
REG-PE. NO. 11432 ON FEB. 7, 1985



DEPARTMENT OF PUBLIC WORKS			
CHIEF, BUREAU OF ENGINEERING			
DEPARTMENT OF PLANNING AND ZONING			
CHIEF, DIV. OF LAND DEVEL. AND ZONING ADM.			
Date	No.	Revision Description	
OWNER AND DEVELOPER			
THE HOWARD RESEARCH AND DEVELOPMENT CORP.			
THE ROUSE COMPANY			
COLUMBIA, MARYLAND			
CENTURY ENGINEERING, INC.			
CONSULTING ENGINEERS - PLANNERS			
TOWSON, MARYLAND 21204			
AREA	VILLAGE OF HICKORY RIDGE SECTION 5 AREA 1 5TH ELECTION DISTRICT, HOWARD CO., MD.		
TITLE	STORM DRAIN PROFILES		
Des By	A.E.B.	Scale	AS SHOWN
Drn By	A.E.B.	Date	6 FEB 85
Proj No	84-1342		
Chk By	G.R.K.	Approved	Drawing No. 6 OF 11

F-85-101

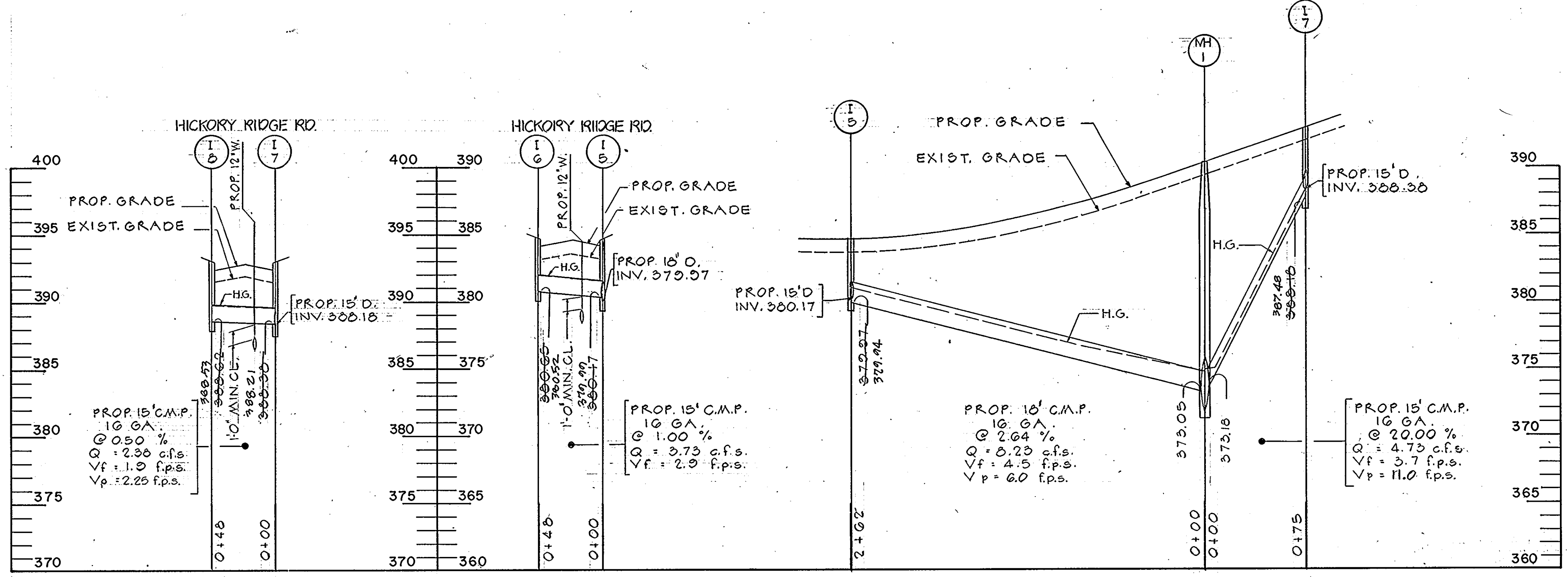
#42



STORM DRAIN PROFILES

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

AS-BUILT SURVEY 2/12/86



STORM DRAIN PROFILES

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

AS-BUILT SURVEY CERTIFIED BY GEORGE R. KLAR
REG.-P.E. NO. 11432 ON FEB. 7, 1985

DEPARTMENT OF PUBLIC WORKS
William E. Rose 5/14/85
 CHIEF, BUREAU OF ENGINEERING
 DEPARTMENT OF PLANNING AND ZONING
John M. Newman 5-9-85
 CHIEF, DIV. OF LAND DEVEL. AND ZONING ADM.

Date	No	Revision	Description

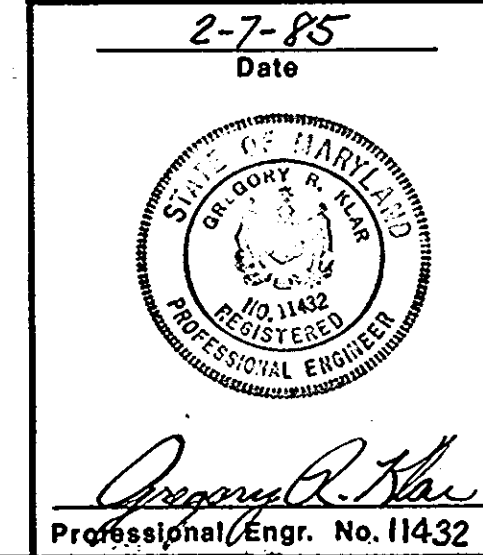
OWNER AND DEVELOPER
 THE HOWARD RESEARCH AND DEVELOPMENT CORP.
 THE ROUSE COMPANY
 COLUMBIA, MARYLAND

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

AREA VILLAGE OF HICKORY RIDGE
 SECTION 5 AREA 1
 5TH ELECTION DISTRICT, HOWARD CO., MD.

TITLE STORM DRAIN PROFILES

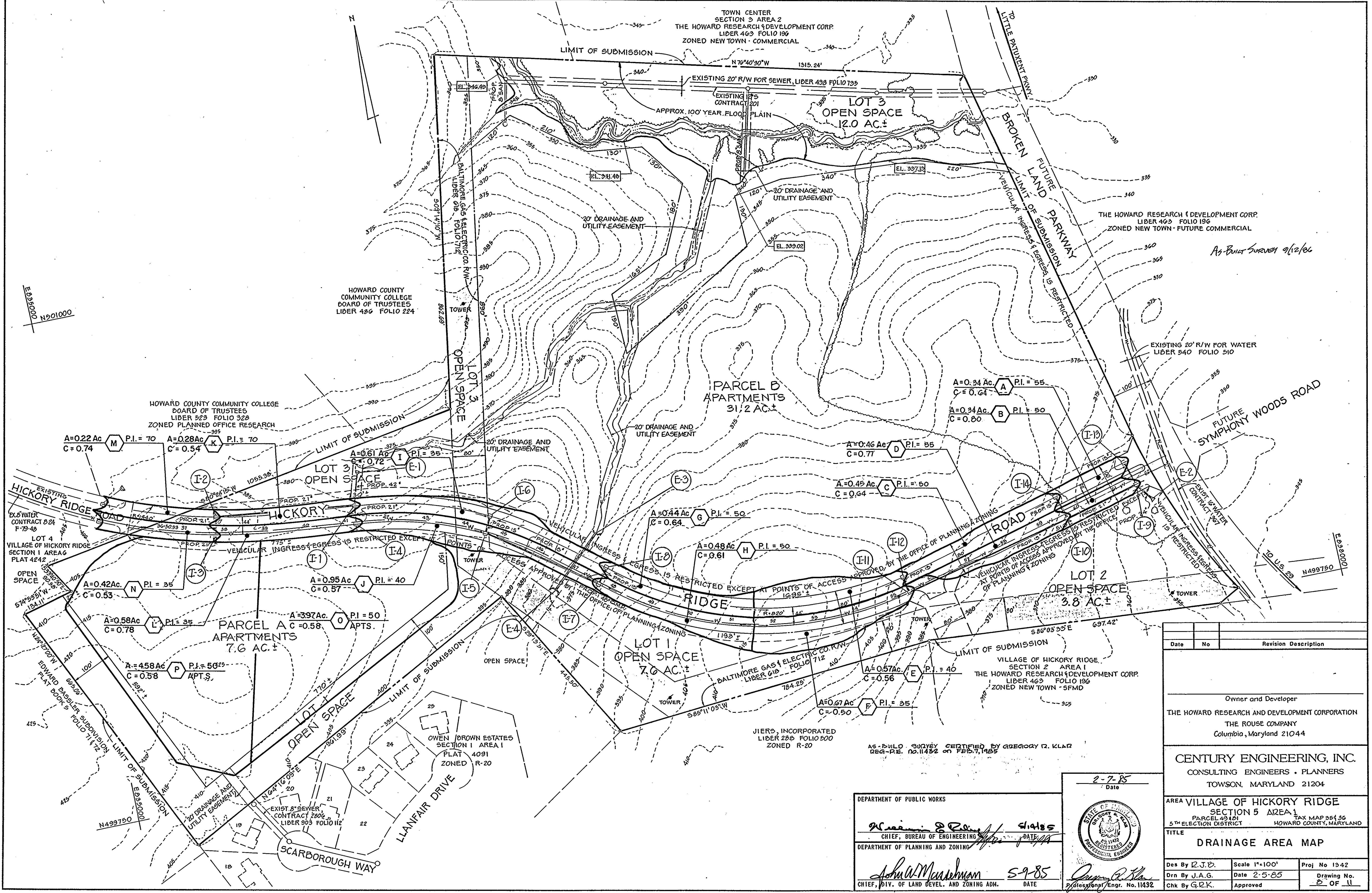
Des By	A.E.B.	Scale	AS SHOWN	Proj No	84-1342
Drn By	A.E.B.	Date	6 FEB 85	Drawing No.	7 OF 11
Chk By	G.R.K.	Approved			



AS-BUILT

F-85-101

#42



As-Built Survey 9/12/86

Date	No	Revision Description

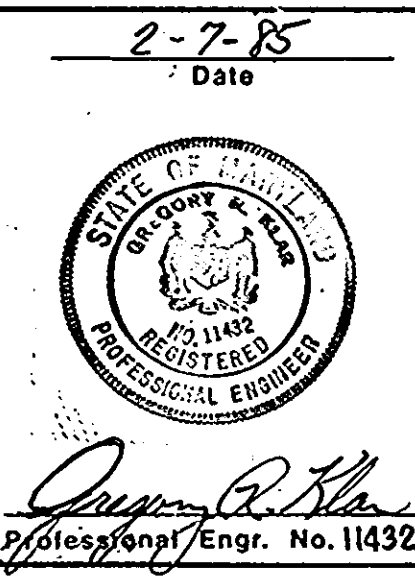
Owner and Developer
 THE HOWARD RESEARCH AND DEVELOPMENT CORPORATION
 THE ROUSE COMPANY
 Columbia, Maryland 21044

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

AREA VILLAGE OF HICKORY RIDGE
 SECTION 5 AREA 1
 PARCEL 49101 TAX MAP 95136
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE		
DRAINAGE AREA MAP		
Des By J.E.D.	Scale 1"=100'	Proj No 1342
Drn By J.A.G.	Date 2-5-85	Drawing No. 2 OF 11
Chk By G.R.K.	Approved	

DEPARTMENT OF PUBLIC WORKS
William S. ... 5/18/85
 CHIEF, BUREAU OF ENGINEERING
 DEPARTMENT OF PLANNING AND ZONING
John W. ... 5-9-85
 CHIEF, DIV. OF LAND DEVEL. AND ZONING ADM. DATE

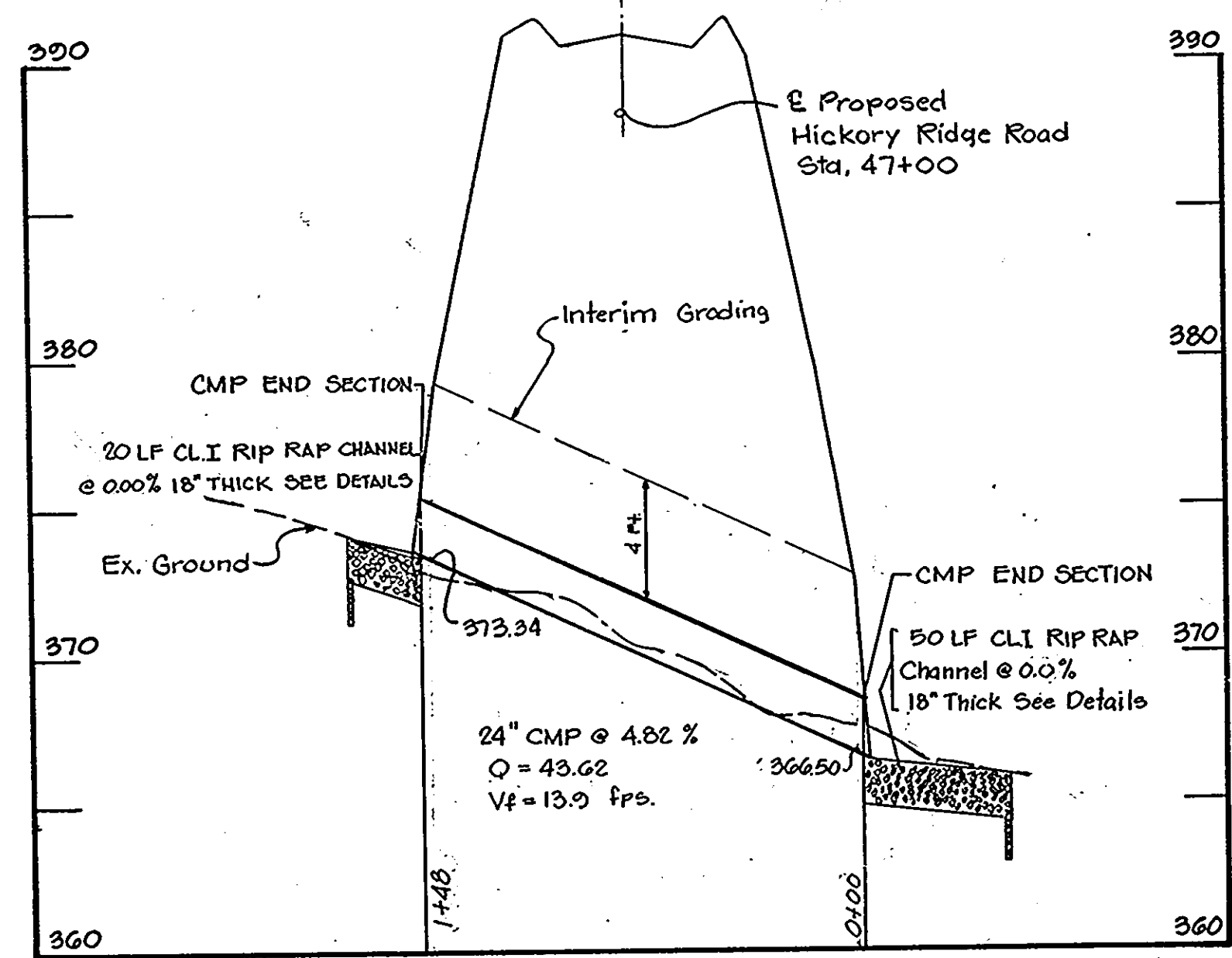
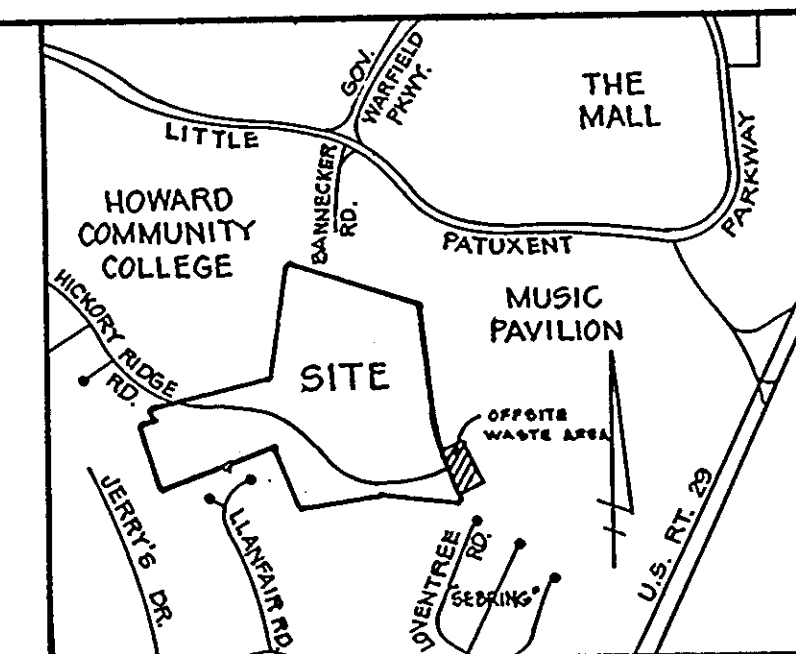


AS-BUILT SURVEY CERTIFIED BY GREGORY T. KLATZ
 REG-PE, No. 11432 ON FEB. 7, 1985

#42

F-85-101

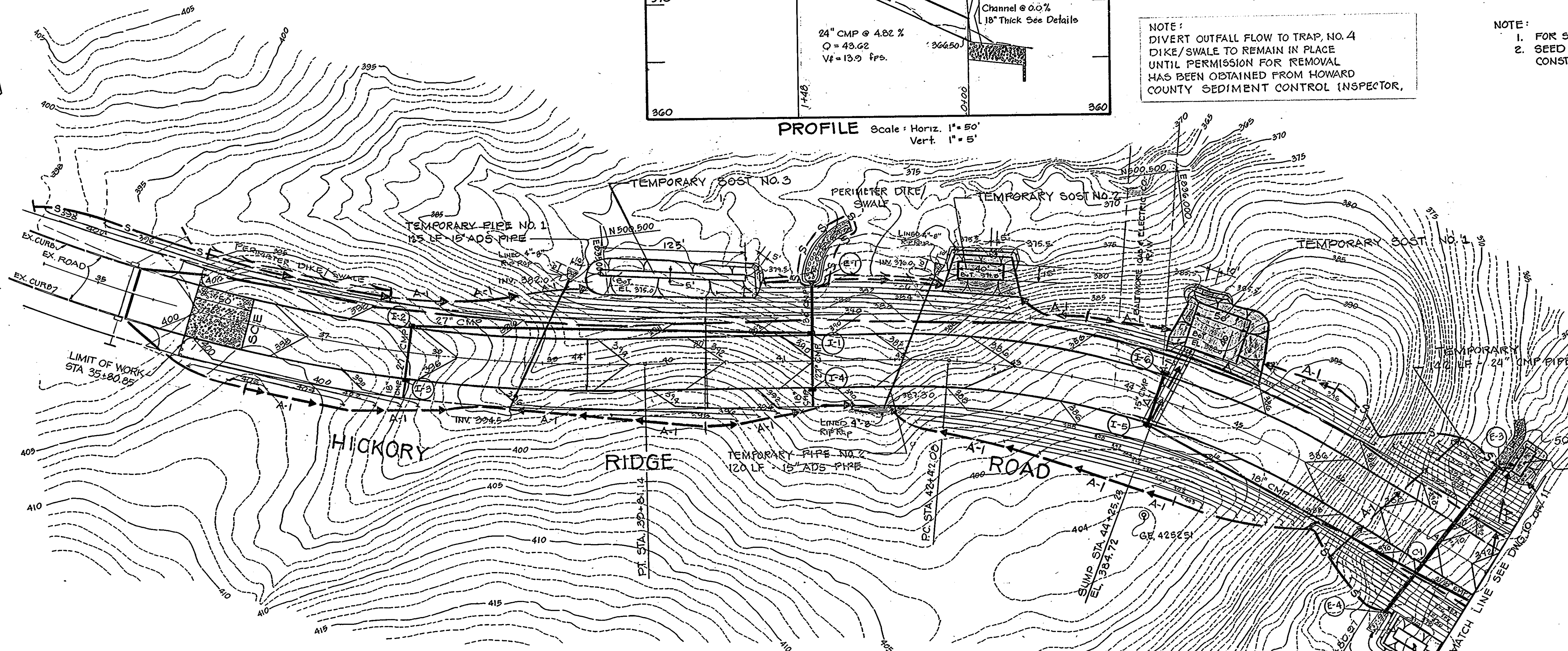
SEDIMENT CONTROL STRUCTURE SCHEDULE										
TRAP NO.	TRAP	TRAP DEPTH	DRAINAGE AREA	DISTURBED AREA	VOLUME (cf)		ROTTON DIMENSION	BOTTON ELEVATION	CLEANOUT ELEVATION	CREST ELEV.
					REQ'D.	PROV.				
1	S.O.S.T.	2.00'	3.88 AC.	2.01 AC.	3836	4800	50'x40'	332.0	383.0	385.0
2	S.O.S.T.	3.06'	1.01 AC.	1.01 AC.	1818	1836	40'x15'	371.0	372.5	375.0
3	S.O.S.T.	3.06'	1.01 AC.	1.01 AC.	1818	1875	125'x5'	375.0	376.5	379.0
4	S.O.S.T.	3.00'	0.41 AC.	0.41 AC.	738	750	25'x10'	366.0	367.5	370.0
5	S.O.S.T.	2.60'	0.42 AC.	0.42 AC.	756	780	30'x10'	371.4	372.7	375.0



NOTE:
 DIVERT OUTFALL FLOW TO TRAP, NO. 4
 DIKE/SWALE TO REMAIN IN PLACE
 UNTIL PERMISSION FOR REMOVAL
 HAS BEEN OBTAINED FROM HOWARD
 COUNTY SEDIMENT CONTROL INSPECTOR.

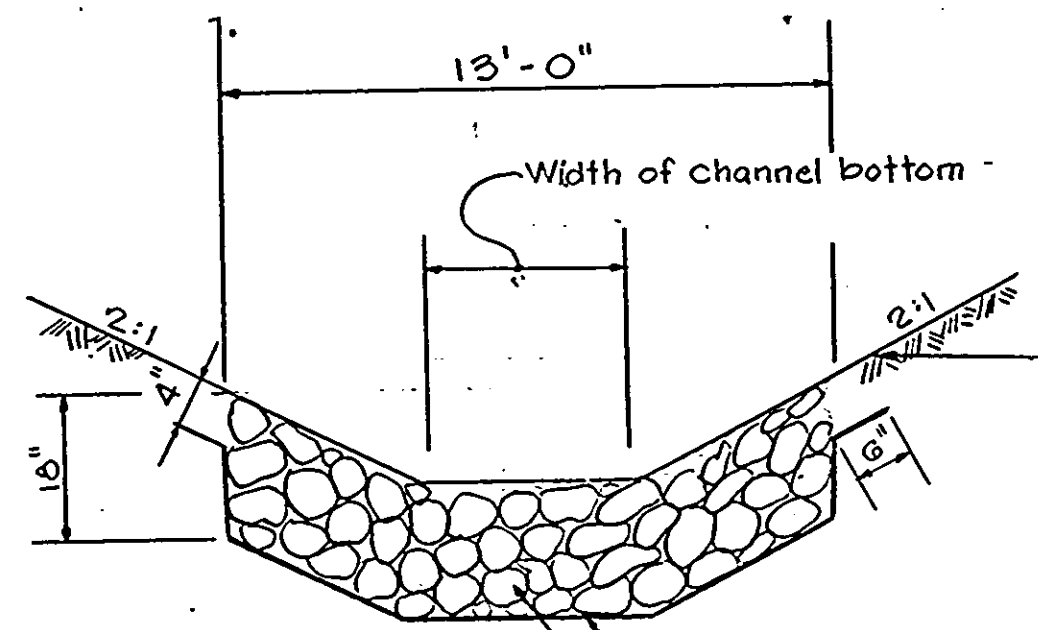
NOTE:
 1. FOR SEDIMENT CONTROL DETAILS SEE DWG. 11 OF 11.
 2. SEED AND MULCH ALL SLOPES IMMEDIATELY AFTER CONSTRUCTION.

As-Built Survey 9/12/85



SEDIMENT CONTROL NOTE FOR 24" CMP INSTALLATION.
 1. Construct Earth Dike and Install Silt Fence as Shown on Plan.
 2. Interim Grading Operation - Provide 4 Feet of Fill over Pipe and Grade Fill Slope to Existing Ground @ 10%.
 3. Remove Earth Dike and Begin Grading Road. For Sequence of Operation See Dwg. 11 of 11

TEMPORARY SOST NO. 4
 10' x 25' Bottom Dimensions
 Bottom EL. 366.0
 Top Embankment EL. 370.5
 SOST Length - 5 ft.



Slope to vary from 2:1 at pipe outlet to existing channel slope at end of apron.

AS-BUILT SURVEY CERTIFIED BY GREGORY R. KLAR
 REG.-P.E. No. 11432 ON FEB. 7, 1985

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

APPROVED: *James M. Nelson* 5/4/85
 U.S. SOIL CONSERVATION SERVICE DATE

APPROVED: *Stephen L. Pauls* 5/4/85
 HOWARD SOIL CONSERVATION DISTRICT DATE

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. Nelson 2-7-85
 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".

Gregory R. Klar 2-8-85
 GREGORY R. KLAR DATE

DEPARTMENT OF PUBLIC WORKS
Gregory R. Klar 5-9-85
 CHIEF, BUREAU OF ENGINEERING DATE

DEPARTMENT OF PLANNING AND ZONING
John W. Marchman 5-9-85
 CHIEF, DIV. OF LAND DEVEL. AND ZONING ADM. DATE

2-8-85
 Date

Professional Engineer
 No. 11432

Date	No	Revision Description
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 HICKORY RIDGE SECTION 5 AREA 1 PARCEL 49 (2) TAX MAP 35136 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE GRADING & SEDIMENT CONTROL PLAN		
Des By G.B.Z.	Scale: 1" = 50'	Proj No 1342
Drn By J.A.G.	Date: 2-8-85	Drawing No. 2 OF 11
Chk By G.R.K.	Approved	

#42

AS-BUILT F-85-101

SEDIMENT CONTROL STRUCTURE SCHEDULE

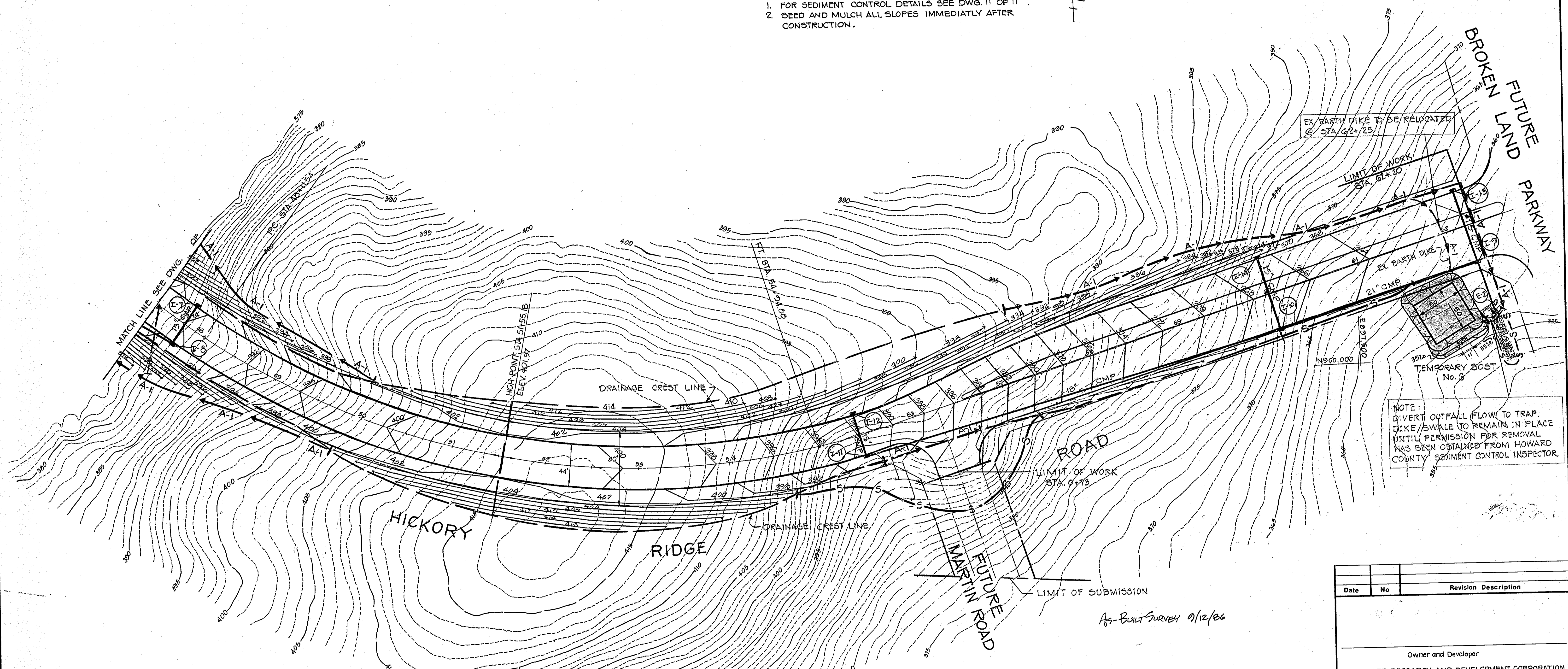
TRAP NO.	TYPE	TRAP DEPTH	DRAINAGE AREA	DISTURBED AREA	VOLUME (cf)		BOTTOM DIMENSION	BOTTOM ELEVATION	CLEANOUT ELEVATION	CREST ELEV.
					REQ'D.	PROV.				
G	S.O.S.T.	2'	3.13 AC.	2.58 AC.	4644	5000	50'x50'	353.5	354.5	356.5

N500,800
E892,500

N500,500
E891,500

NOTE:
1. FOR SEDIMENT CONTROL DETAILS SEE DWG. 11 OF 11
2. SEED AND MULCH ALL SLOPES IMMEDIATELY AFTER CONSTRUCTION.

NOTE:
OFFSITE SPOIL AREA,
SEE BROKEN LAND PARKWAY
GRADING AND SEDIMENT CONTROL
PLAN DWG. 1 OF 1, (GP-85-1)



NOTE:
DIVERT OUTFALL FLOW TO TRAP.
DIKE/SWALE TO REMAIN IN PLACE
UNTIL PERMISSION FOR REMOVAL
HAS BEEN OBTAINED FROM HOWARD
COUNTY SEDIMENT CONTROL INSPECTOR.

As-Built Survey 9/12/86

AS-BUILT SURVEY CERTIFIED BY GEORGEY REG-RE.
NO. 11432 ON FEB. 7, 1985

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

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

James M. Holdings 5/9/85
V.S. SOIL CONSERVATION SERVICE DATE

Stephen L. Huber 5/9/85
HOWARD SOIL CONSERVATION DISTRICT DATE

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.

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".

John H. N... 2-7-85
SIGNATURE OF DEVELOPER DATE

Gregory R. Klar 2-8-85
GREGORY R. KLAR DATE

DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING
DEPARTMENT OF PLANNING AND ZONING
John W. ... 5-9-85
CHIEF, DIV. OF LAND DEVEL. AND ZONING ADJ. DATE

2-8-85
Date
PROFESSIONAL ENGINEER
Professional/Engr. No. 11432

Date	No	Revision Description
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 HICKORY RIDGE SECTION 5 AREA 1 PARCEL 49681 TAX MAP 35436 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE GRADING & SEDIMENT CONTROL PLAN		
Des By G.B.Z.	Scale: 1"=50'	Proj No 1342
Drn By A.E.D.	Date 2-5-85	Drawing No. 10 OF 11
Chk By G.R.K.	Approved	

F-85-101

#42

BRUNING 44-132 53864

SEDIMENT CONTROL NOTES

- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or re disturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days for all other disturbed or graded areas on the project site.
- 4) All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) and (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 6) 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.
- 7) Site Analysis:
 - Total Area of Site: 507 acres
 - Area Disturbed: 207 acres
 - Area to be roofed or paved: 280 acres
 - Area to be vegetatively stabilized: 220 acres
 - Total Cut: 0 Cu. Yds
 - Total Fill: 0 Cu. Yds
- 8) Office waste/borrow area location
- 9) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 10) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas likely to be reseeded where a permanent low-level vegetative cover is needed.

Soil Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: In line of soil test recommendations, use one of the following schedules:

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.
- 3) Alternative - Apply 1 ton per acre dolomitic limestone (46 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding.

Seeding: For the period March 1 thru April 30, and August 1 thru October 15, seed with 50 lbs per acre (14 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 1 lb per acre (27 lbs/1000 sq ft) of seedling limestone. During the period of October 16 thru February 28, plant site by Option (1) 1 ton per acre of well aerated straw mulch and seed as soon as possible in the spring, or Option (2) 1 ton per acre of well aerated straw mulch and seed with 1 ton/acre well aerated straw.

Mulching: Apply 1 1/2 to 2 tons per acre (75 to 90 lbs/1000 sq ft) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 gallons per acre (3 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 3 feet or lighter, use 10 gallons per acre (10 gal/1000 sq ft) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be reseeded where a short-term vegetative cover is needed.

Soil Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

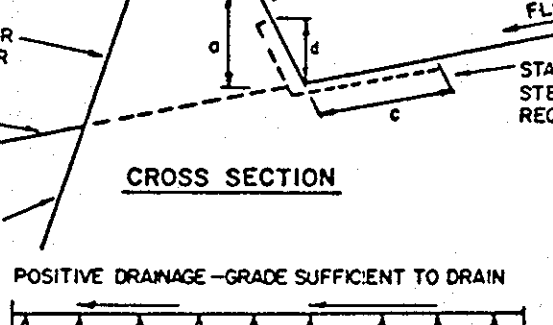
Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

Seeding: For the period March 1 thru April 30, and August 1 thru November 15, seed with 50 lbs per acre (14 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs per acre of Kentucky 31 Tall Fescue and 1 lb per acre (27 lbs/1000 sq ft) of seedling limestone. During the period of October 16 thru February 28, plant site by Option (1) 1 ton per acre of well aerated straw mulch and seed as soon as possible in the spring, or Option (2) 1 ton per acre of well aerated straw mulch and seed with 1 ton/acre well aerated straw.

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Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.

TEMPORARY SWALE DETAIL



CONSTRUCTION SPECIFICATIONS

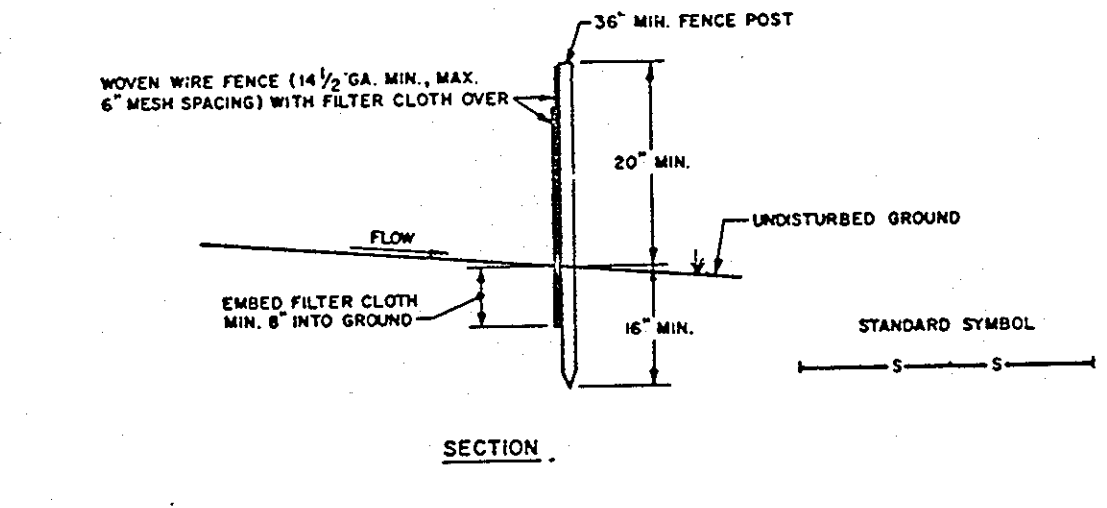
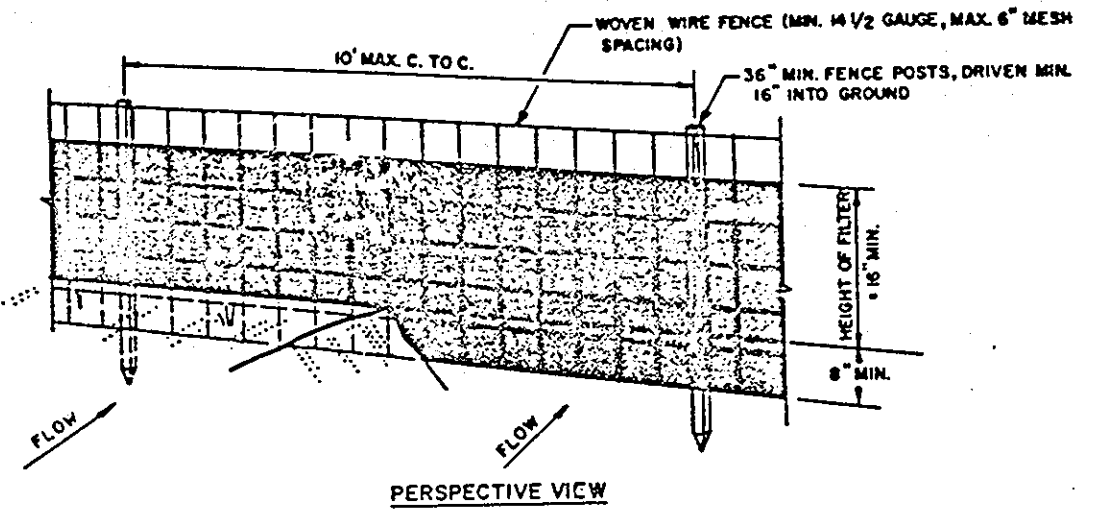
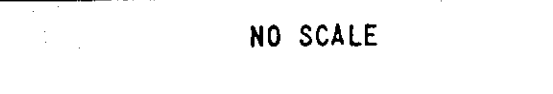
1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. FLOWPFS SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT SECURELY STABILIZED.
5. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	5-3-0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5-0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSTOR, SOG, 2" STONE
3	5.1-8-0%	SEED WITH JUTE, OR SOG, 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

- STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
- RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 6 INCHES THICKNESS AND PRESSED INTO THE SOIL.
- APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

EARTH DIKE DETAIL



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24\"/>
- POSTS: STEEL EITHER T OR U TYPE OR 2\"/>

FENCE: WOVEN WIRE, 1/4\"/>

FILTER CLOTH: FILTER X, TURF, LUMBER, STABILINKA LUMBER OR APPROVED EQUAL

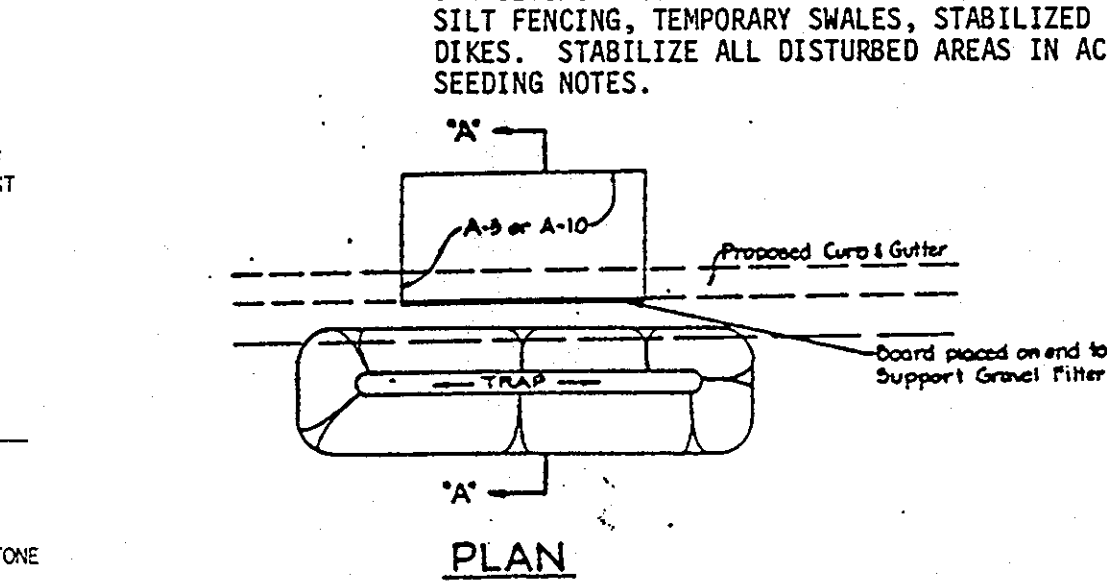
PREFABRICATED UNIT: GEOTAB, DIRTROFENCE, OR APPROVED EQUAL

SILT FENCE DETAIL



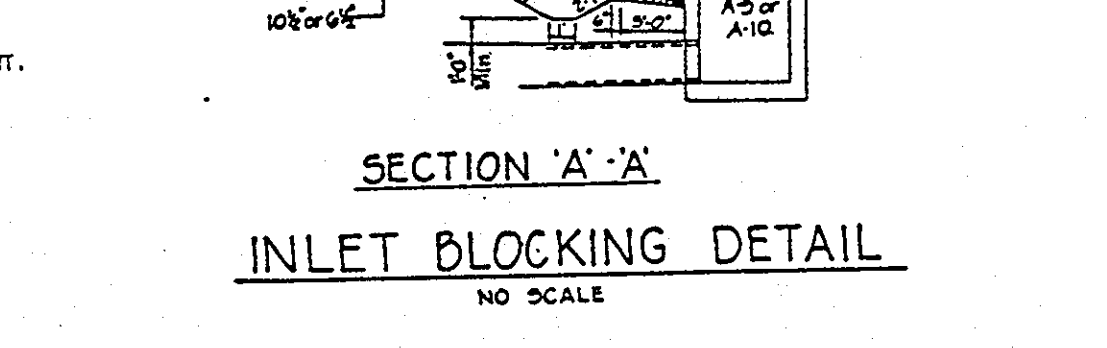
SEQUENCE OF CONSTRUCTION

1. OBTAIN GRADING PERMIT
2. NOTIFY THE DPW SEDIMENT CONTROL INSPECTOR FOR HOWARD COUNTY, 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
3. SEDIMENT CONTROL DEVICES AND PRACTICES SHALL BE IN ACCORDANCE WITH GP-85-36 UNLESS OTHERWISE NOTED.
4. MAINTAIN EXISTING STABILIZED CONSTRUCTION ENTRANCE
5. MAINTAIN SILT FENCE AT LIMITS OF DISTURBED AREAS AS SHOWN ON PLAN.
6. MAINTAIN EXISTING PIPES NO. 1 AND NO. 2.
7. MAINTAIN EXISTING EARTH DIKE A-1.
8. MAINTAIN EXISTING SEDIMENT TRAP NO. 1 & 6.
9. EXISTING SEDIMENT TRAP NO. 2, 3, 4 AND 5 ARE TO REMAIN IN PLACE AND IN OPERATION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. MAINTAIN TEMPORARY SWALE IN CONJUNCTION WITH ROADWAY CONSTRUCTION.
11. BEGIN CONSTRUCTION FOR:
 - WATER PIPE
 - STORM DRAIN & INLETS
12. PROVIDE INLET BLOCKING - SEE DETAIL THIS SHEET.
13. DIVERT STORM DRAIN OUTFALL FLOW TO TRAP. (AS SHOWN ON PLAN)
14. REMOVE TEMPORARY SWALE AT STATION 44+25 WITHIN ROADWAY ONLY.
15. BEGIN ROAD CONSTRUCTION.
16. UPON COMPLETION OF ALL GRADING OPERATIONS AND APPROVAL BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR, PUMP OUT AND BACKFILL ALL TRAPS, REMOVE ALL SILT FENCING, TEMPORARY SWALES, STABILIZED CONSTRUCTION ENTRANCES AND EARTH DIKES. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.

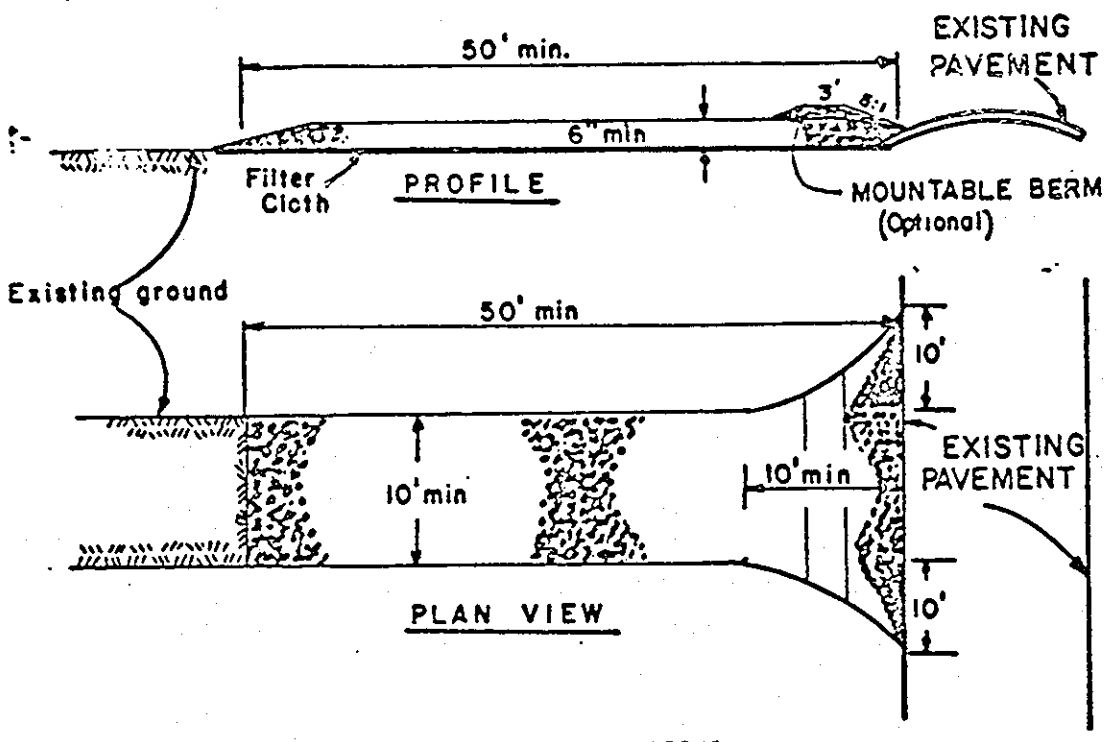


SECTION 'A-A'

INLET BLOCKING DETAIL



STABILIZED CONSTRUCTION ENTRANCE DETAIL



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2\"/>
- 2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- 3. Thickness - Not less than six (6) inches.
- 4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
- 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- 6. Surface Water - All surface water flowing or diverted through construction entrances shall be piped across the entrance. If piping is impractical, a mounded berm with 5:1 slopes will be permitted.
- 7. 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.
- 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- 9. Periodic inspection and needed maintenance shall be provided after each rain.

TEMPORARY SWALE DETAIL



CONSTRUCTION SPECIFICATIONS FOR ST-7

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and 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.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4-8\"/>
- 5. 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.
- 6. The structure shall be inspected after each rain and repairs made as needed.
- 7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

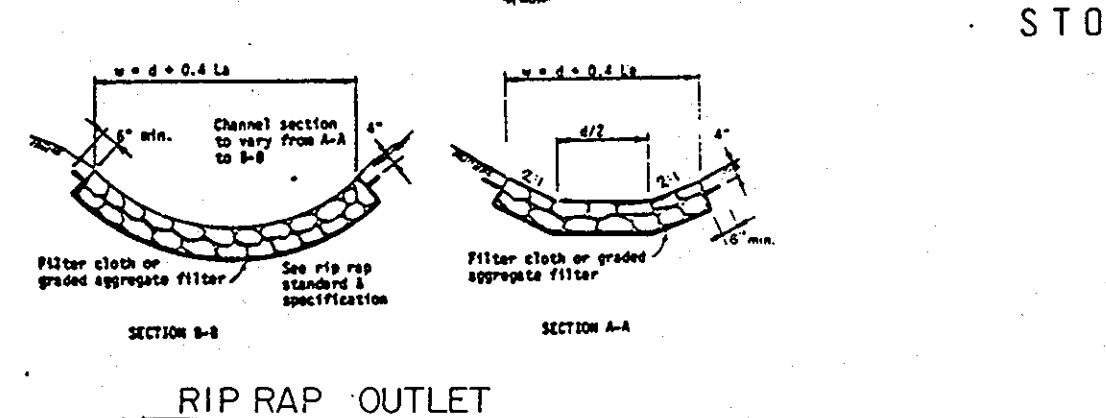
STONE OUTLET SEDIMENT TRAP DETAIL



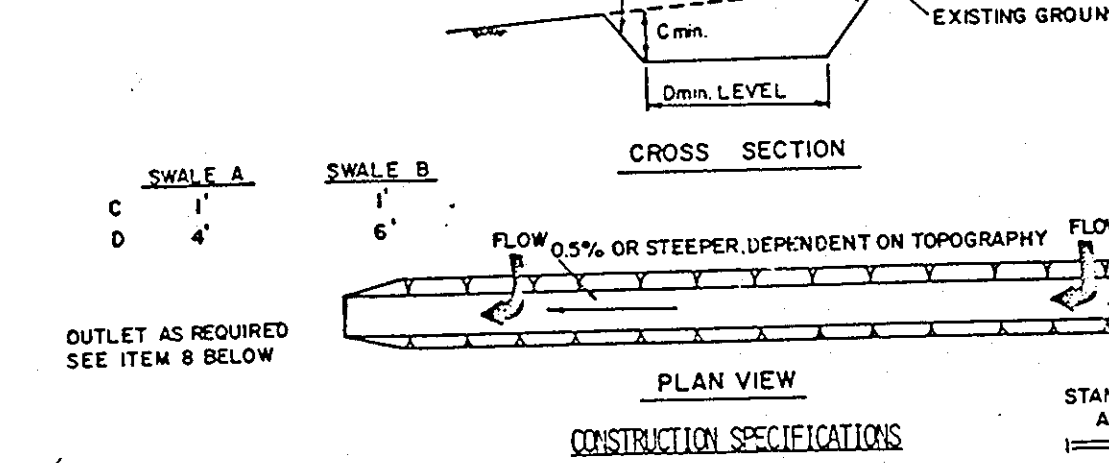
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STONE OUTLET SEDIMENT TRAP DETAIL



TEMPORARY SWALE DETAIL



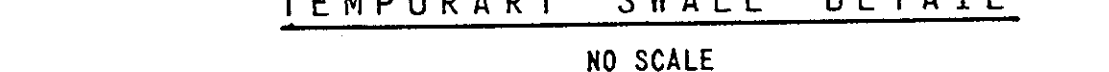
CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSTOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSTOR	LINED RIP-RAP 4-8\"/>
4	8.1-20%	LINED 4-8\"/>	

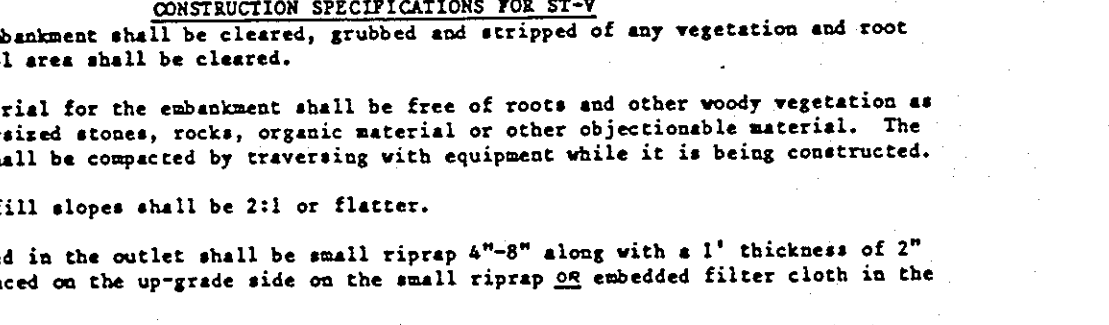
TEMPORARY SWALE DETAIL



CONSTRUCTION SPECIFICATIONS FOR ST-7

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and 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.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4-8\"/>
- 5. 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.
- 6. The structure shall be inspected after each rain and repairs made as needed.
- 7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
- 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

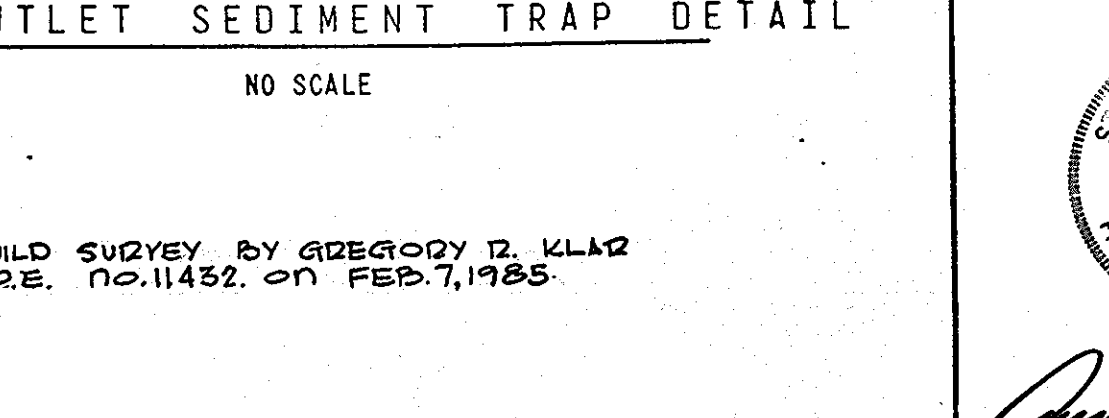
STONE OUTLET SEDIMENT TRAP DETAIL



CONSTRUCTION SPECIFICATIONS FOR ST-7

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. The fill material for the embankment shall be free of roots and 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.
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- 8. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP DETAIL



ACCEPTED AND APPROVED FOR CONSTRUCTION BY:

OWNER: DATE:

CONTRACTOR: DATE:

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

APPROVED:

Stephen L. Fultz 5/9/85
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.

James M. Helman 5/9/85
U.S. SOIL CONSERVATION SERVICE DATE

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. Nash 2-7-85
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."

Gregory R. Klar 2-7-85
GREGORY R. KLAR DATE

DEPARTMENT OF PUBLIC WORKS:

William S. Ryan 5/14/85
CHIEF, BUREAU OF ENGINEERING DATE

DEPARTMENT OF PLANNING AND ZONING:

John W. Mische 5/9/85
CHIEF, DIV. OF LAND DEVELOP. AND ZONING ADM. DATE

Date	No	Revision Description

As-Built Survey 9/12/06

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

AREA: VILLAGE OF HICKORY RIDGE
SECTION 5 AREA 1
5TH ELECTION DISTRICT, HOWARD CO., MD.

TITLE: SEDIMENT CONTROL NOTES AND DETAILS

Des By	Scale	AS SHOWN	Proj No
AEB	AS SHOWN		
Drn By	Date	6 FEB 85	Drawing No.
AEB	6 FEB 85		11 OF 11
Chk By	GRK	Approved	

F-85-101

#42

PLANNING 44-132 5/8/84