

APPROVED: HOWARD COUNTY
DEPARTMENT OF PUBLIC WORKS

[Signature] 12/1/87
CHIEF, LAND DEVELOPMENT DIV. DATE

[Signature] 12/1/87
CHIEF, BUREAU OF HIGHWAYS DATE

[Signature] 10-5-87
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: Howard County Office of Planning
& Zoning

[Signature] 12-1-87
Chief, Division of Land Development
& Zoning Administration DATE

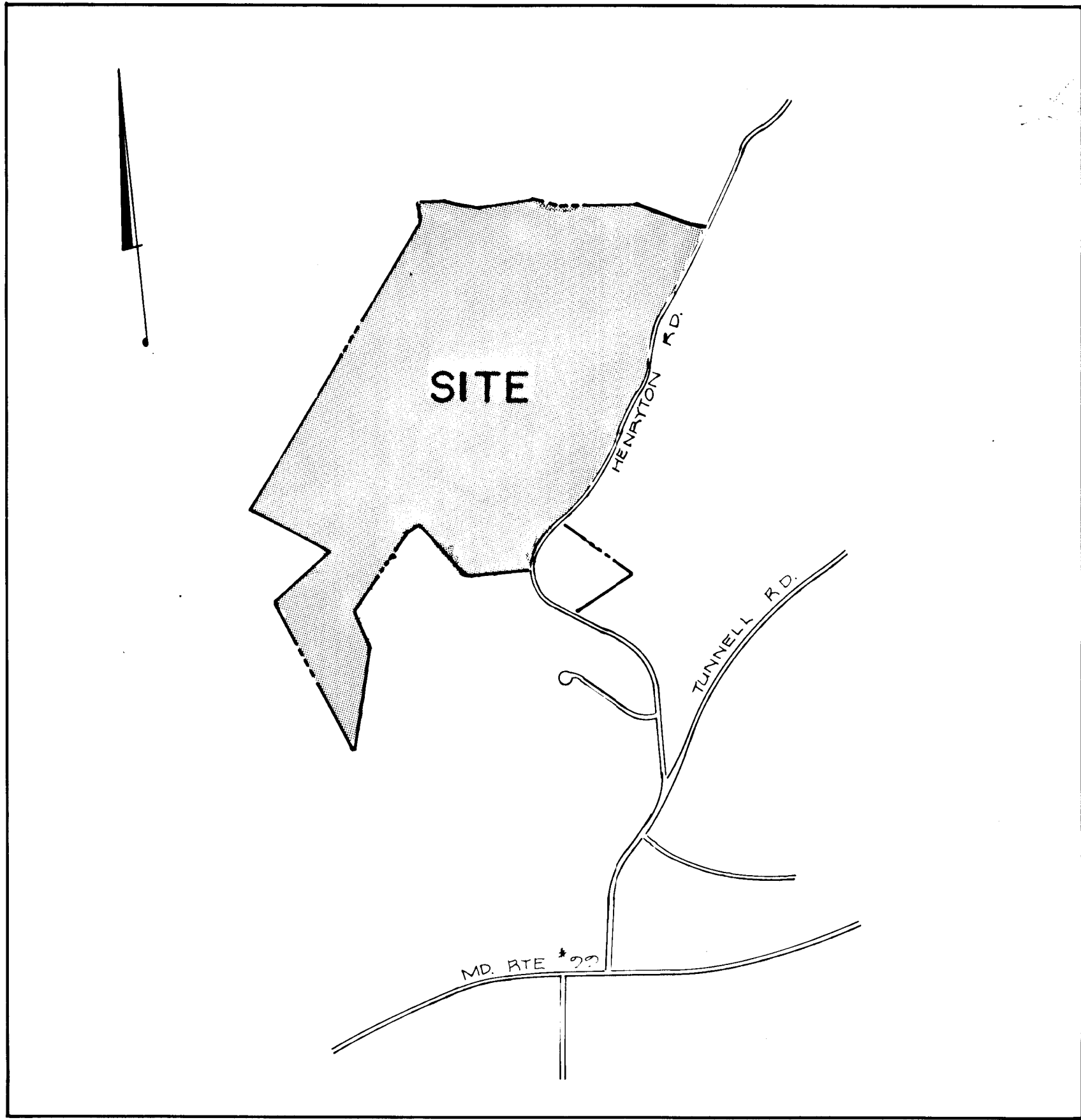
MEADOWOOD SECTION ONE ROAD AND STORM DRAIN CONSTRUCTION DRAWINGS

INDEX SHEETS

1 - COVER SHEET	
2 - HENRYTON RD	STA. 0+00 TO 3+50
3 - HENRYTON RD	STA. 9+50 TO 20+50
4 - HENRYTON RD	STA. 20+50 TO 33+00
5 - HENRYTON RD	STA. 33+00 TO 44+00
6 - CROWS FOOT RD	STA. 0+00 TO 13+00
7 - CROWS FOOT RD	STA. 13+00 TO 24+50
8 - CROWS FOOT RD	STA. 24+50 TO 31+87.7
9 - SHADY CREEK COURT	
10 - MAYAPPLE DRIVE	
11 - CRYSTAL RIDGE COURT	
12 - DRAINAGE AREA MAP & STRUCTURE SCHEDULE	
13 - STORM DRAIN PROFILES	
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15 - GRADING & SEDIMENT CONTROL	
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21 - SEDIMENT CONTROL DETAILS AND SEQUENCE OF OPERATIONS	

GENERAL NOTES

- Property zoned "R" as per 8/2/85 Comprehensive Zoning Plan
- Total area of lots: 107.35 acres.
- Total area of road right-of-way: 7.82 acres.
- Total area of open space: N/A
- Total area of Section One: 116.16 acres.
- Total area of building lots: 107.35 acres.
- Total number of building lots: 31
- Private water and sewer will be used for this subdivision. The lots on this section have passed the perc test.
- B.R.L. denotes building restriction line.
- For flag or pipestem lots, refuse collection, snow removal and road maintenance to be provided at the junction of flag or pipestem and the road right-of-way and not onto the flag or pipestem driveway.
- V.P.-84-39-A1 applies to this subdivision.
- Deed reference 1160-141
- All coordinates shown are based upon the Maryland State Grid System and Howard County Point N544034.478, E821468.361.
- All traffic control devices shall be installed in compliance with the Manual on Uniform Traffic Control Devices for streets and highways, current edition.
- No grading will be done on lots.
- See Variance VP-84-39-A-1



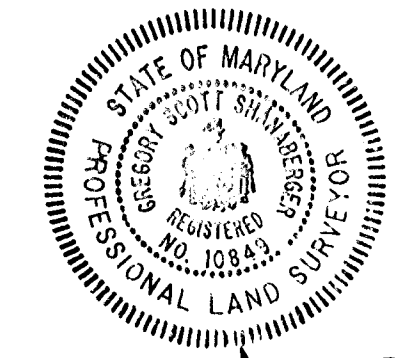
VICINITY MAP
SCALE: 1" = 1200'

HORIZONTAL & VERTICAL CONTROL

1) HOWARD COUNTY TRAVERSE POINT # 3137001
DESC: CONCRETE MONUMENT AT SURFACE, 600' EAST OF HENRYTON RD.
N 541,868.316 E 821,311.065 ELEV: 612.48

2) HOWARD COUNTY TRAVERSE POINT # 3137001
DESC: CONCRETE MONUMENT 0.6' BELOW SURFACE
N 544,034.478 E 821,468.361 ELEV: 634.52

AS-BUILT INFORMATION SHOWN AS THUS: 429.19



ROAD AS-BUILT

[Signature] 12/1/87
PROFESSIONAL LAND SURVEYOR # 10849

SHANABERGER & LANE
3726 TOWN & COUNTRY BLVD.
SUITE 107
ELICOTT CITY, MARYLAND 21043

[Signature] 12-3-87
MIKE SEDCHI DATE

D.S. THALER & ASSOC. INC.

CIVIL ENGINEERS LANDSCAPE ARCHITECTS

SURVEYORS & LAND PLANNERS

11 WARREN ROAD BALTIMORE, MD.

21208 (301) 484-4100

OWNER

SPRING HILL ASSOCIATES
1427 RTE. 32
SYKESVILLE, MD. 21784

DEVELOPER

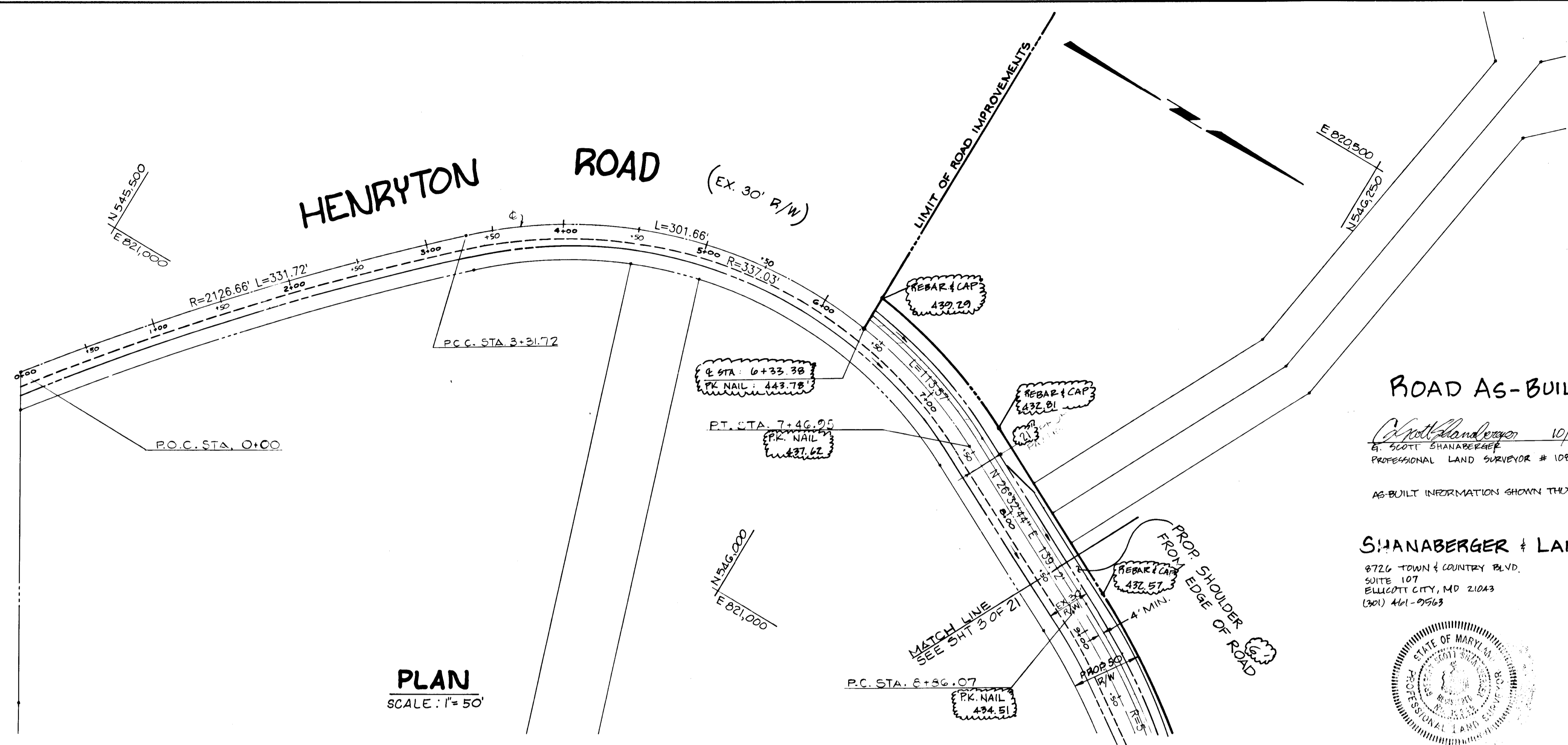
KOREN DEVELOPMENT CORP., INC.
5423 WATERCRESS PLACE
COLUMBIA, MD. 21045

AS-BUILT
12/16/87

F-87-201

DATE
BY
NO.
PLAN
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NO. 100



PLAN
SCALE: 1" = 50'

MIKE SEDGHI DATE 10-23-87

ROAD AS-BUILT
10/10/1990
SCOTT SHANABERGER
PROFESSIONAL LAND SURVEYOR # 10849

AS-BUILT INFORMATION SHOWN THIS: 431.21

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 107
ELLETTT CITY, MD 21043
(301) 461-0963

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Huchman 10-27-87
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
ZONING ADMINISTRATION

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John J. ... 10-27-87
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED:
Gianniello M. ... 10/14/87
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED:
... 10-5-87
CHIEF, BUREAU OF ENGINEERING DATE

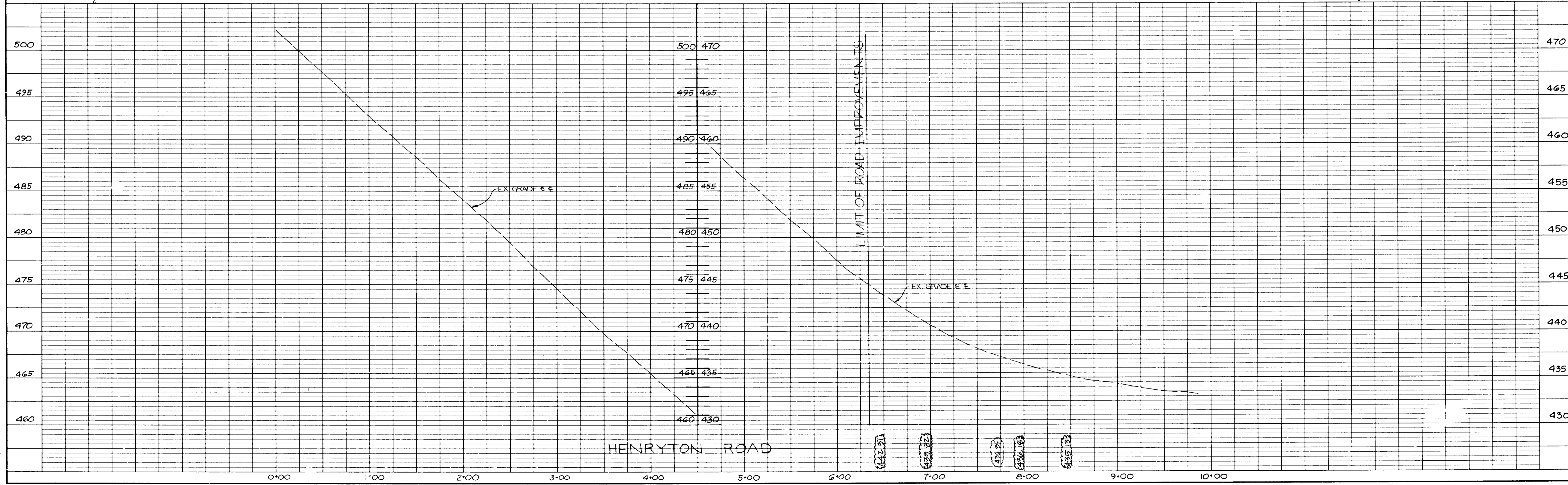
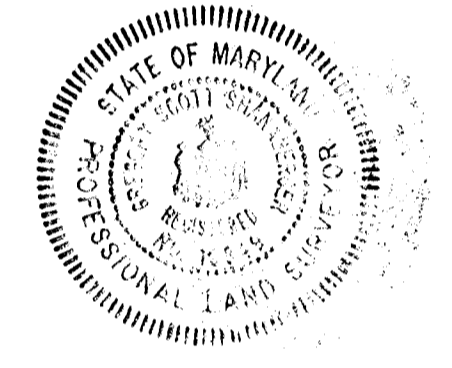
MEADOWOOD SECTION ONE
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

HENRYTON ROAD
STA. 0+00 TO STA. 10+50
PLAN AND PROFILE

DEVELOPER
KOREN DEVELOPMENT CORP. INC.
COLUMBIA, MD. 21045
(301) 740-1010

REV 6-12-90
SCALE 1" = 50' DATE 5-16-87 DWG. NO. 2 OF 21
DESIGNED M.S. DRAWN J.L.C. CHECKED M.S.

DST & A Inc.
11 WARREN ROAD BALTIMORE MARYLAND 21208 (301) 484-4100



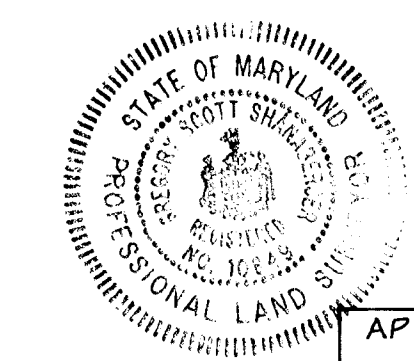
1318

SHANABERGER & LANE
 8726 TOWN & COUNTRY BLVD.
 SUITE 107
 BELLCOTT CITY, MARYLAND 21043

AS-BUILT INFORMATION SHOWN THUS: (A13.12)

ROAD AS-BUILT

Scott Shanaberger 10/10/00
 G. SCOTT SHANABERGER DATE
 PROFESSIONAL LAND SURVEYOR # 10947



APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John W. Hunsicker 10-7-87
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE
 # ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Joseph Seibert 10/10/87
 CHIEF, LAND DEVELOPMENT DIVISION DATE

Dravillo W. Weiland 10/14/87
 CHIEF, BUREAU OF HIGHWAYS DATE

John C. ... 10-5-87
 CHIEF, BUREAU OF ENGINEERING DATE

MEADOWOOD
 SECTION ONE

3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

HENRYTON ROAD
 STA. 9+50 TO STA. 20+50
 PLAN AND PROFILE

DEVELOPER
 KOREN DEVELOPMENT CORP. INC.
 COLUMBIA, MD. 21045
 (301) 740-1010

SCALE 1" = 50' DATE 5-16-87 DWG. NO. 3 OF 21

DESIGNED M.S. DRAWN J.L.C. CHECKED M.S.

D&A Inc. 850C.
 11 WARREN ROAD, BALTIMORE, MARYLAND 21208 (301) 484-4100



9.27.87
 MIKE SEDGHI DATE

MEADOWOOD
 FUTURE SECTION TWO

HENRYTON ROAD

EDGE OF EXISTING PAVEMENT

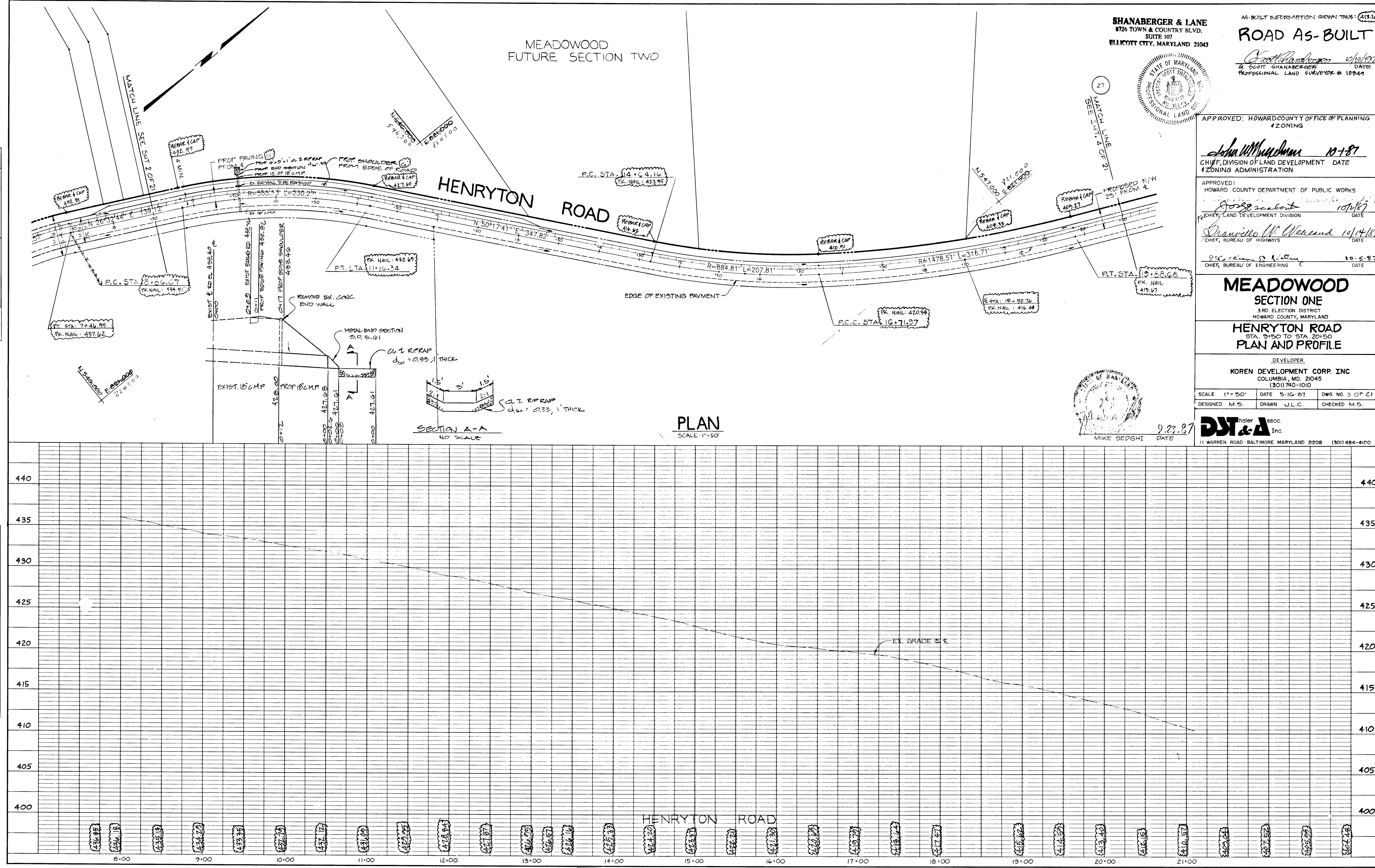
SECTION A-A
 NO SCALE

PLAN
 SCALE 1" = 50'

PLAN
 SURVEYED...
 NOTE BOOK NO.

PROFILE
 SURVEYED...
 NOTE BOOK NO.

1318



SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 107
ELLCOTT CITY, MARYLAND 21043

ROAD AS-BUILT



APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

APPROVED: *John W. Meacham* 10-1-87
CHIEF, DIVISION OF LAND DEVELOPMENT DATE & ZONING ADMINISTRATION

APPROVED: *[Signature]* 10-1-87
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED: *[Signature]* 10-1-87
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: *[Signature]* 10-5-87
CHIEF, BUREAU OF ENGINEERING DATE

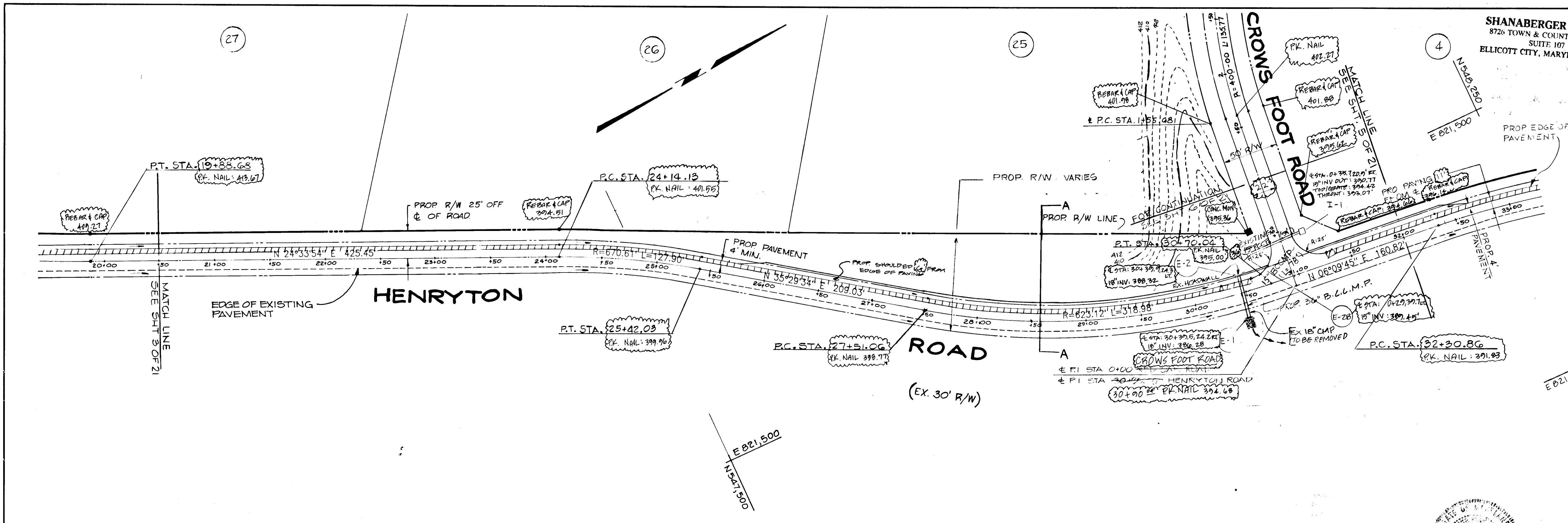
MEADOWOOD SECTION ONE
3 RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

HENRYTON ROAD
STA. 20+50 TO STA. 33+00
PLAN AND PROFILE

DEVELOPER
KOREN DEVELOPMENT CORP. INC.
COLUMBIA, MD. 21045
(301) 740-1010

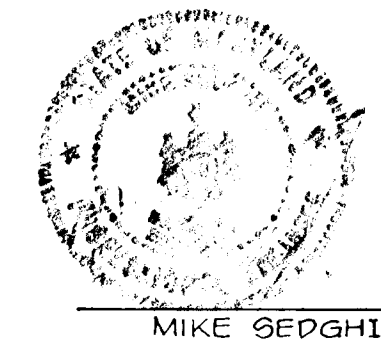
SCALE 1" = 50' DATE 5-16-87 DWG. NO. 4 OF 21
DESIGNED M.S. DRAWN J.L.C. CHECKED M.S.

DJT & A
11 WARREN ROAD, BALTIMORE, MARYLAND 21208 (301) 484-4100

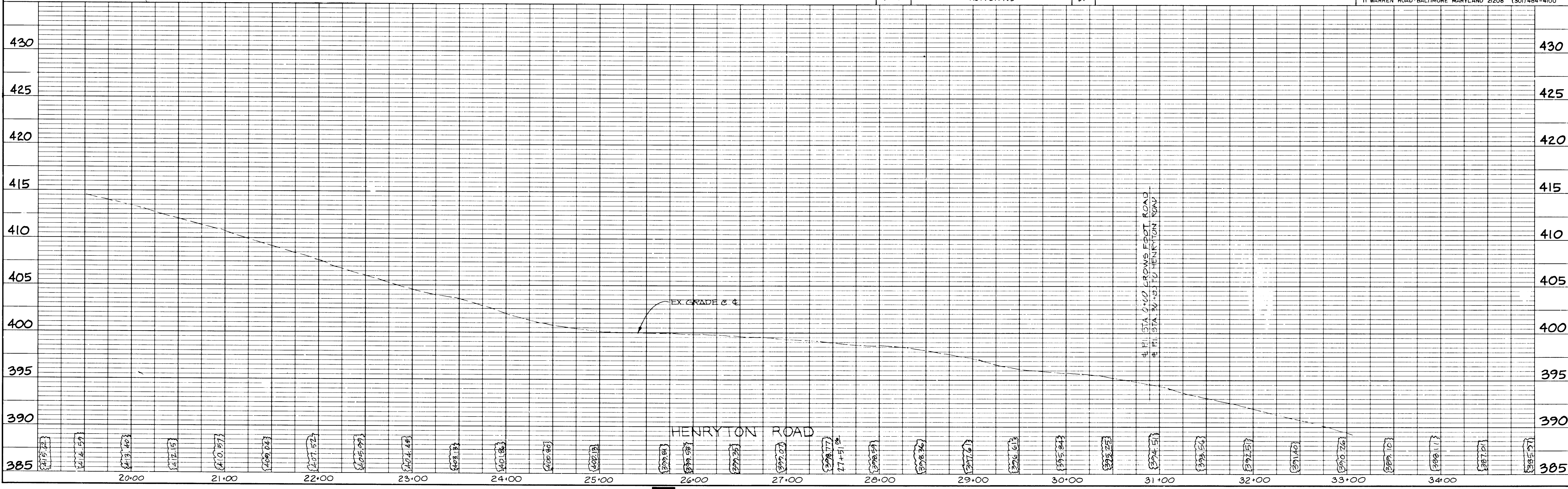


PLAN
SCALE: 1" = 50'

DATE	REVISIONS	BY
4-27-89	REPLACED E14 THRU M-5 WITH 30' AT E-2 TO E-1	L.D.H.



MIKE SEDGHI DATE



Keuffel & Esser Company
48,7024, Made in U.S.A.

AS-BUILT
10/10/1990 F-87-201

PLAN
NO. _____
DATE _____
SURVEYED _____
PLOTTED _____
ALIGNED CHECKED _____
BY: _____

PROFILE
NO. _____
DATE _____
SURVEYED _____
PLOTTED _____
CHECKED _____
BY: _____

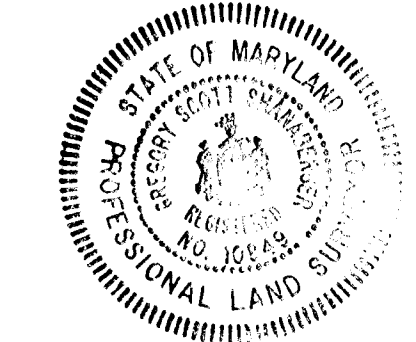
1512

ROAD AS-BUILT

SHANBERGER & LANE
8726 TOWN & COUNTRY RD.
SUITE 107
ELlicOTT CITY, MARYLAND 21043

Scott Shanberger 10/10/90
G. SCOTT SHANBERGER DATE
PROFESSIONAL LAND SURVEYOR # 10849

AS-BUILT INFORMATION SHOWN
THUS: 122.37



APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John Munchman 10-1-87
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
& ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Joe [unclear] 10/1/87
CHIEF, LAND DEVELOPMENT DIVISION DATE

Christine W. McLeod 10/14/87
CHIEF, BUREAU OF HIGHWAYS DATE

Gregory [unclear] 10-5-87
CHIEF, BUREAU OF ENGINEERING DATE

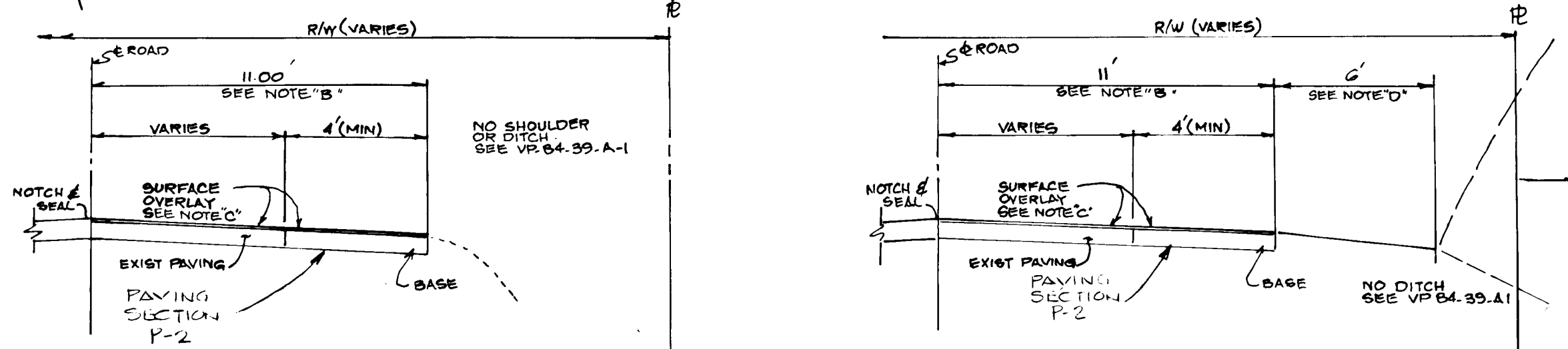
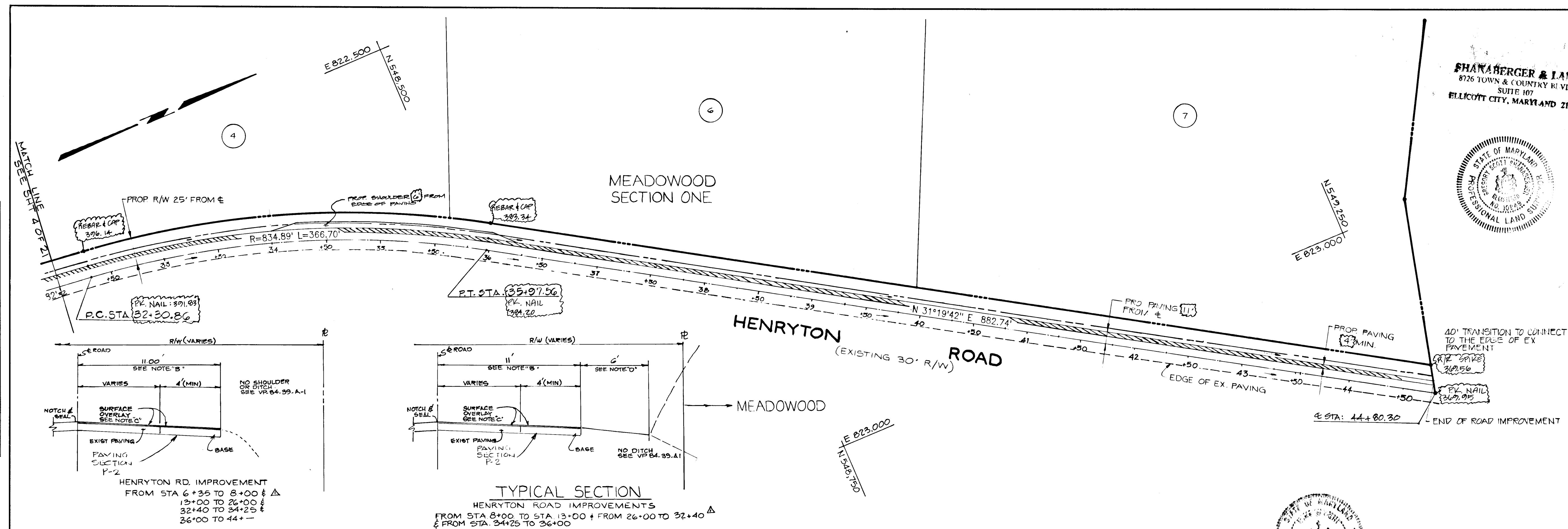
MEADOWOOD SECTION ONE

3 RD. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
HENRYTON ROAD
STA. 33+00 TO STA. 44+80
PLAN AND PROFILE

DEVELOPER
KOREN DEVELOPMENT CORP. INC.
COLUMBIA, MD. 21045
(301) 740-1010

REV. 6-12-90
SCALE 1"=50' DATE 5-16-87 DWG. NO. 5 OF 21
DESIGNED M.S. DRAWN J.L.C. CHECKED M.S.

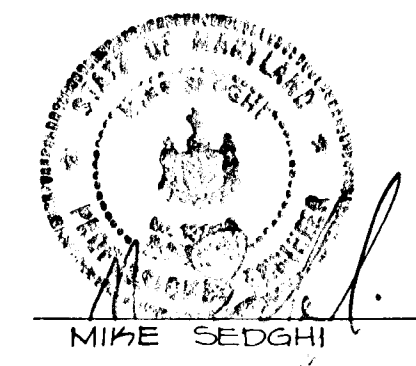
DJI Inc.
11 WARREN ROAD BALTIMORE MARYLAND 21208 (301) 484-4100



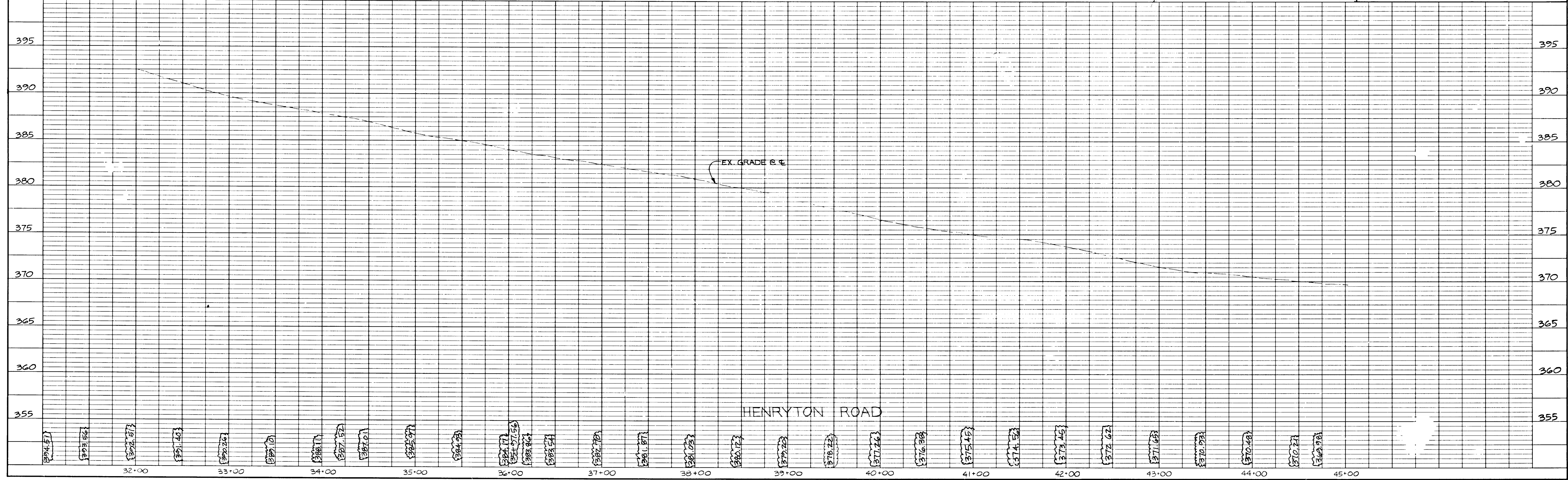
TYPICAL SECTION
HENRYTON ROAD IMPROVEMENTS
FROM STA 8+00 TO STA 13+00 + FROM 26+00 TO 32+40
& FROM STA 34+25 TO 36+00

- NOTE A - WHEN EXISTING TRAVEL LANE IS LESS THAN THE REQUIRED 22', CONTRACTOR SHALL REMOVE ENOUGH OF THE EX. ROAD BED TO PROVIDE A MIN. BASE WIDENING OF 4'
- NOTE B - THE SURFACE OVERLAY SHALL BE CARRIED TO THE E OF THE ROAD AND NOTCHED AND SEALED
- NOTE C - SURFACE OVERLAY COURSE TO BE EQUAL TO SURFACE COURSE OF TYPICAL PAVING SECTION OF SUBDIVISION
- NOTE D - 2" TOPSOIL, SEED & MULCH

PLAN
SCALE 1" = 50'



9-23-87
DATE



DATE
BY
REVISIONS
NO. DATE DESCRIPTION

DATE
BY
REVISIONS
NO. DATE DESCRIPTION

137E

ROAD AS-BUILT

G. Scott Shanaberger 10/16/1990
 G. SCOTT SHANABERGER DATE
 PROFESSIONAL LAND SURVEYOR # 10841
 AS-BUILT INFORMATION SHOWN THUS: (411.61)

SHANABERGER & LANE
 8726 TOWN & COUNTRY BLVD.
 SUITE 107
 ELLICOTT CITY, MARYLAND 21043



9-23-87
 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John W. Marshall 10-1-87
 CHIEF DIVISION OF LAND DEVELOPMENT DATE
 & ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

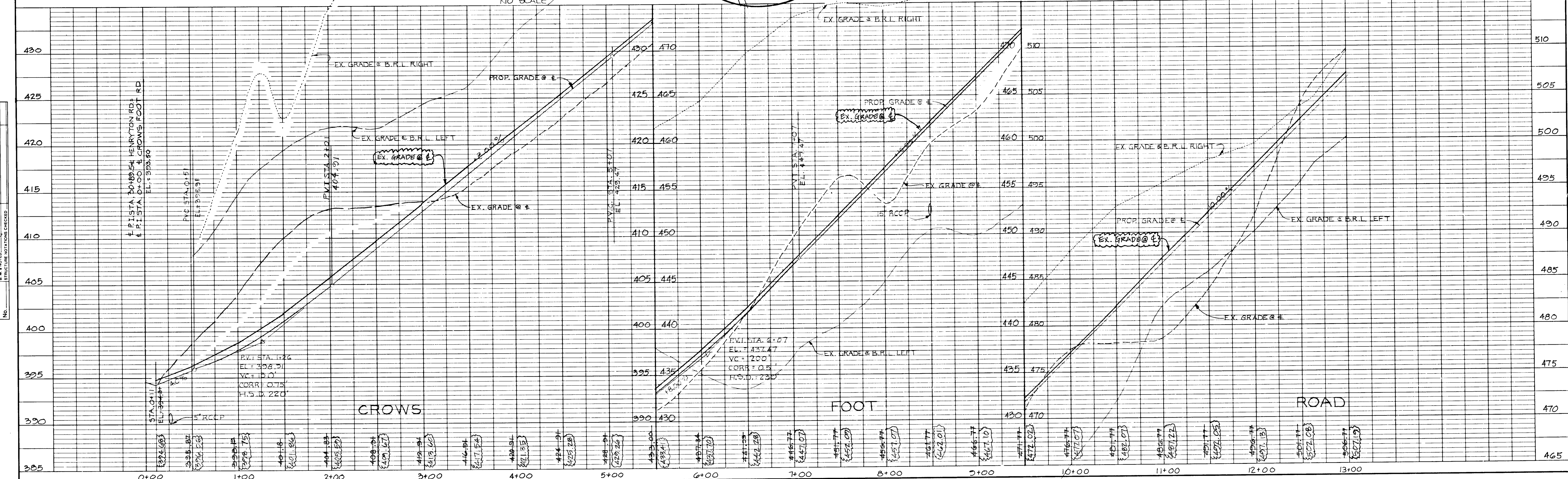
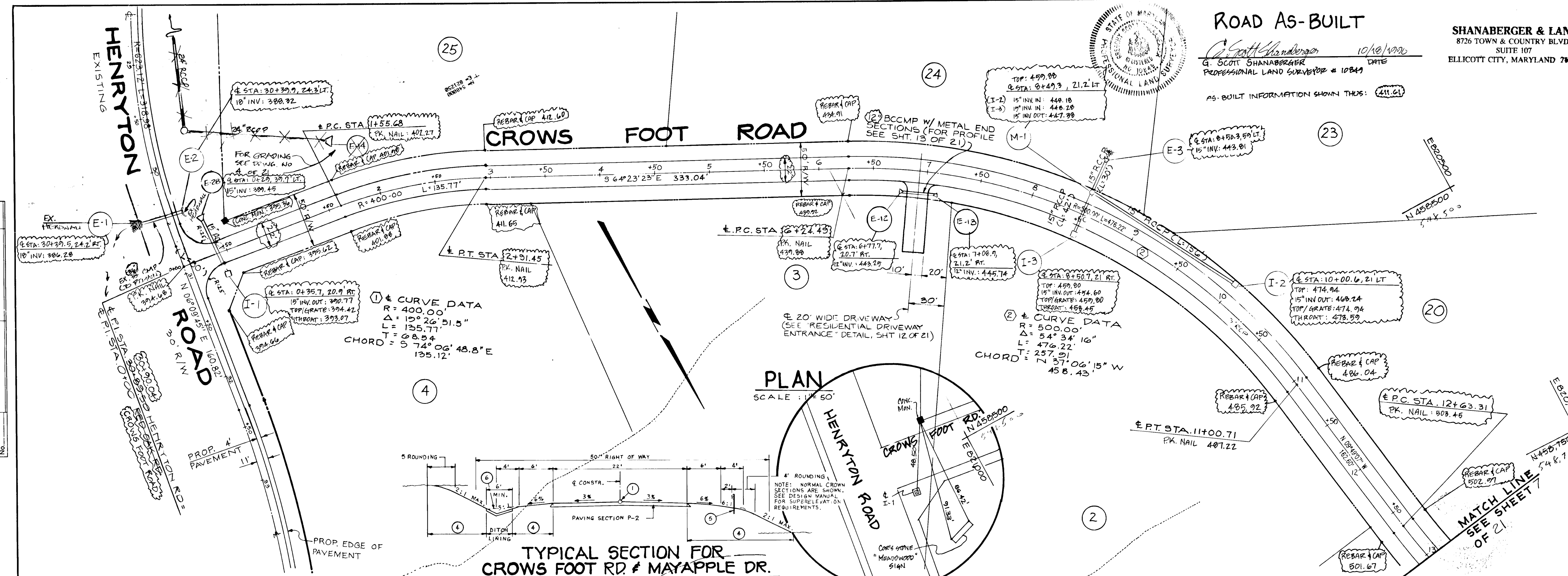
Joseph E. ... 10/1/87
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Shawville W. ... 10/14/87
 CHIEF, BUREAU OF HIGHWAYS DATE
John ... 10-5-87
 CHIEF, BUREAU OF ENGINEERING DATE

MEADOWOOD SECTION ONE
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
CROWS FOOT RD.
 STA. 0+00 TO STA. 13+00
PLAN AND PROFILE

DEVELOPER
KOREN DEVELOPMENT CORP. INC.
 COLUMBIA, MD. 21045
 (301) 740-1010

SCALE 1" = 30' DATE 5-16-87 DWG. NO. G OF 21
 DESIGNED M.S. DRAWN J.L.C. CHECKED M.S.

DJT & A INC. 11 WARREN ROAD BALTIMORE MARYLAND 21208 (301) 484-4100



PLAN
 DATE
 DRAWN BY
 CHECKED BY
 IN CHARGE
 NO.

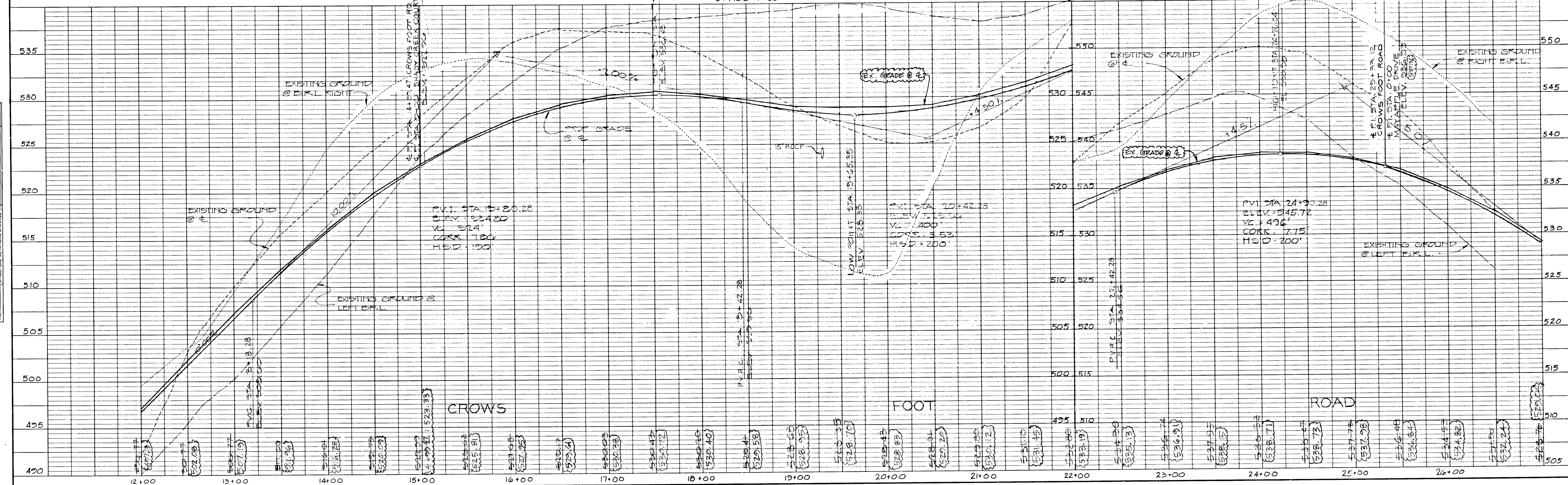
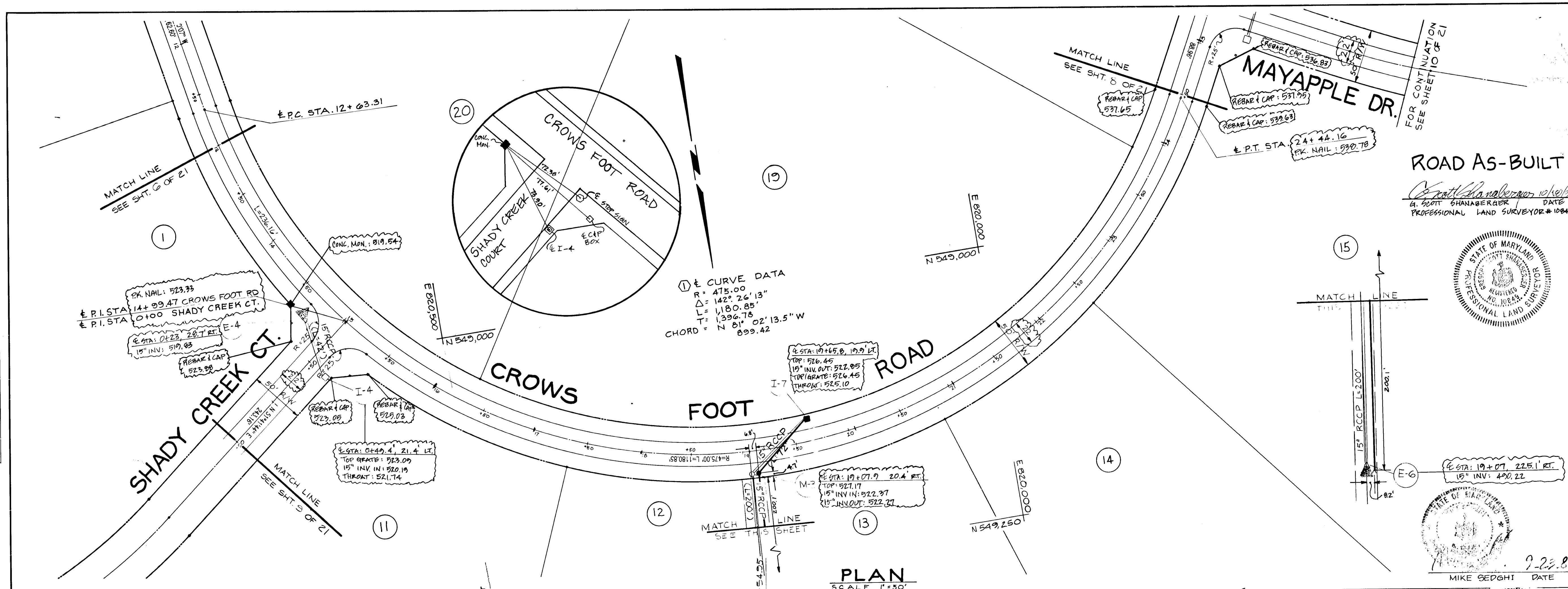
PROFILE
 DATE
 DRAWN BY
 CHECKED BY
 IN CHARGE
 NO.

1318

DATE	
BY	
NO.	
PLAN	
NO.	

DATE	
BY	
NO.	
PROFILE	
NO.	

1318



SHANABERGER & LANE
6726 TOWN & COUNTRY BLVD.
SUITE 107
BELLICOTT CITY, MARYLAND 21043

AS-BUILT INFORMATION SHOWN THUS: (461.18)

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John W. Murchison 10-1-87
CHIEF DIVISION OF LAND DEVELOPMENT DATE
& ZONING ADMINISTRATION

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John W. Murchison 10/1/87
CHIEF, LAND DEVELOPMENT DIVISION DATE

Stanville W. Williams 10/14/87
CHIEF, BUREAU OF HIGHWAYS DATE

William S. Long 10-5-87
CHIEF, BUREAU OF ENGINEERING DATE

MEADOWOOD SECTION ONE
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CROWS FOOT RD.
STA 13+00 TO STA 24+50
PLAN AND PROFILE

DEVELOPER
KOREN DEVELOPMENT CORP. INC.
COLUMBIA, MD. 21045
(301) 740-1010

SCALE 1"=50' DATE 5-16-87 DWG. NO 7 00 21
DESIGNED M.S. DRAWN J.L.C. CHECKED M.S.

DST & A Inc
11 WARREN ROAD BALTIMORE MARYLAND 21208 (301) 484-4100

ROAD AS-BUILT
Michael Shanaberger
G. SHOOT SHANABERGER DATE
PROFESSIONAL LAND SURVEYOR # 10849



9-22-87
MIKE OEDGHI DATE

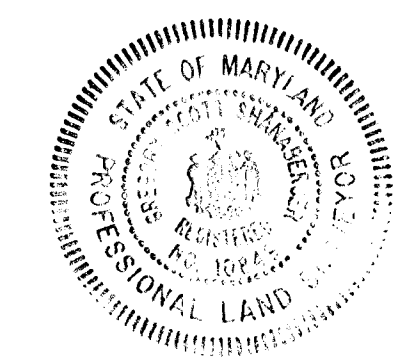
SHANBERGER & LANE
 8726 TOWN & COUNTRY BLVD.
 SUITE 107
 ELICOTT CITY, MARYLAND 21043

APPROVED:
 HOWARD CO. OFFICE OF PLANNING AND ZONING
John W. Munchman 10-19-97
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE

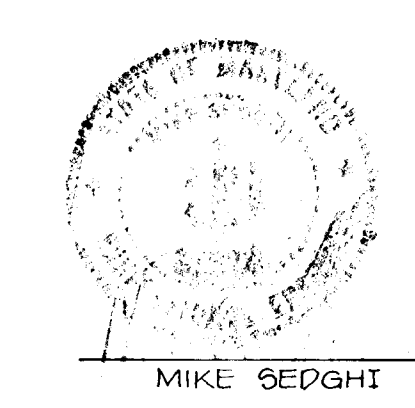
APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Joseph A. ... 10/19/97
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE

Shaw ... 10/14/87
 CHIEF, BUREAU OF HIGHWAYS
 DATE

... & ... 10-5-87
 CHIEF, BUREAU OF ENGINEERING
 DATE



ROAD AS-BUILT
Scott Shanberger 10/19/97
 G. SCOTT SHANBERGER
 PROFESSIONAL LAND SURVEYOR # 10841

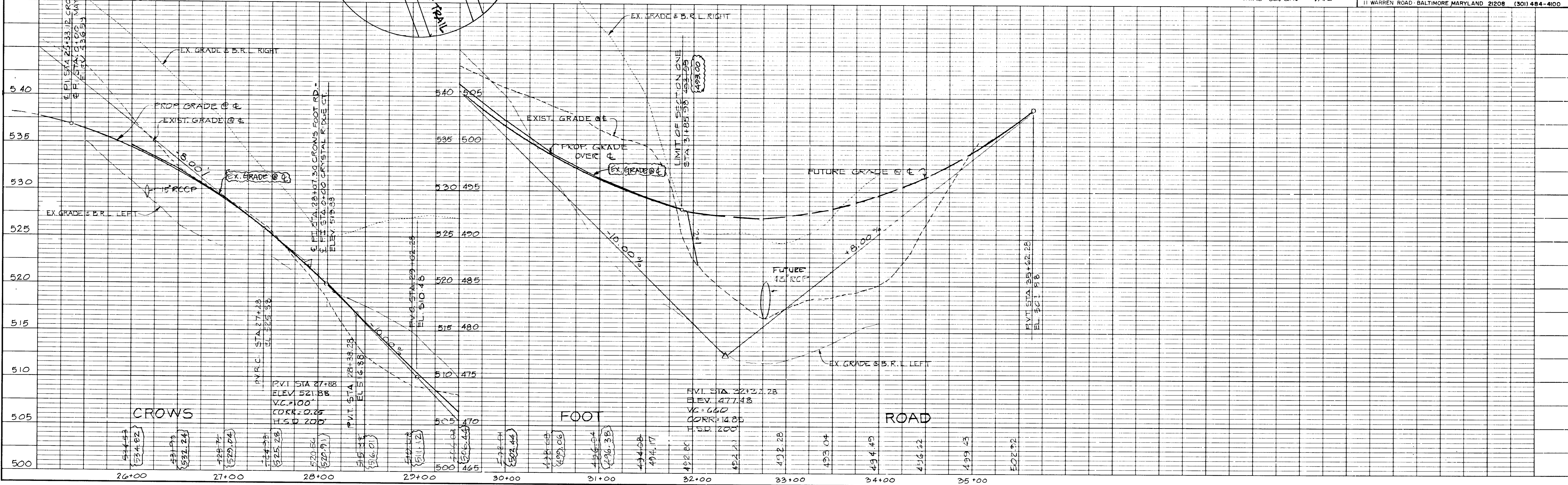
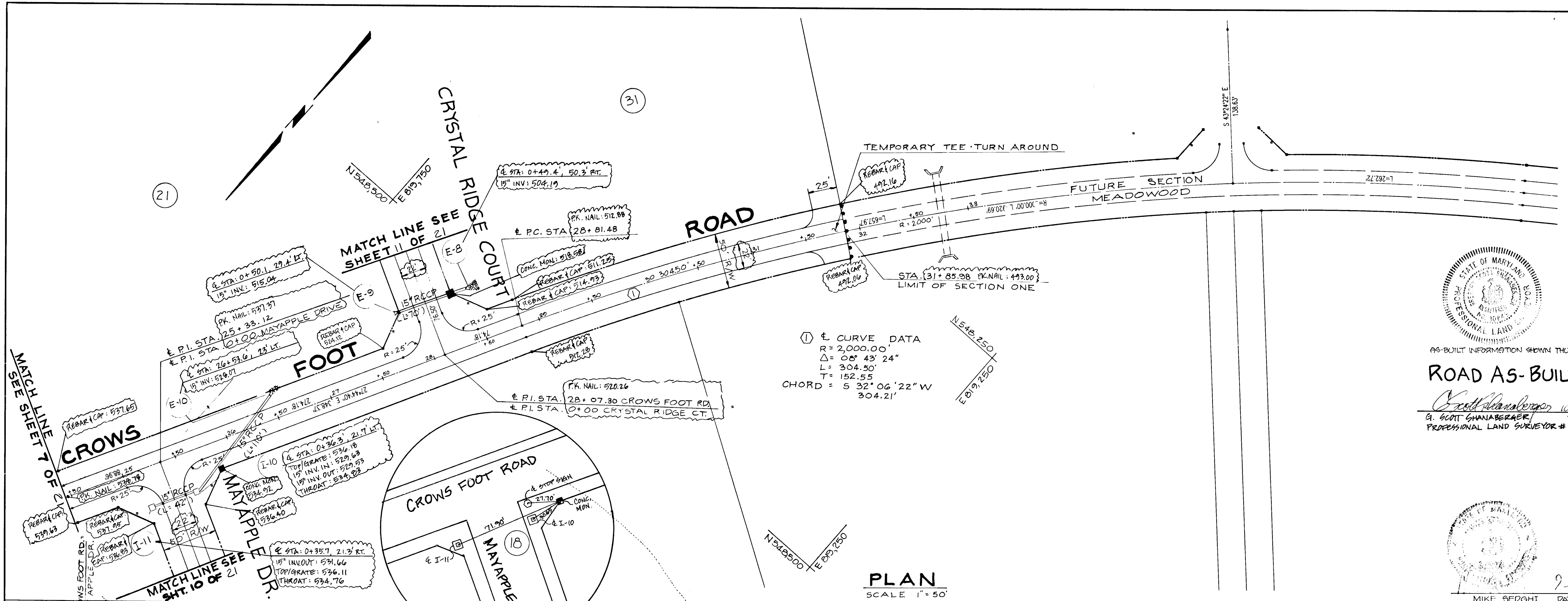


MEADOWOOD
 SECTION ONE
 3RD ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CROWS FOOT ROAD
 STA. 24+50 TO STA. 31+87.70
 PLAN AND PROFILE

DEVELOPER
 KOREN DEVELOPMENT CORP. INC.
 COLUMBIA, MD. 21045
 (301) 740-1010

SCALE 1"=50' DATE 5-16-87 DWG. NO. 8 OF 21
 DESIGNED M.S. DRAWN J.L.C. CHECKED M.S.

DJI & A Inc.
 11 WARREN ROAD BALTIMORE MARYLAND 21208 (301) 484-4100



DATE: _____ BY: _____

NO. _____

PLAN
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 ALIGNMENT CHECKED: _____
 BY: _____
 NO. _____

DATE: _____ BY: _____

NO. _____

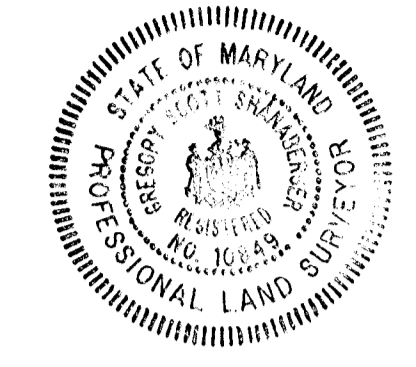
PROFILE
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 BENCH CHECKED: _____
 BY: _____
 NO. _____

1318

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 107
ELLCOTT CITY, MARYLAND 21043

ROAD AS-BUILT

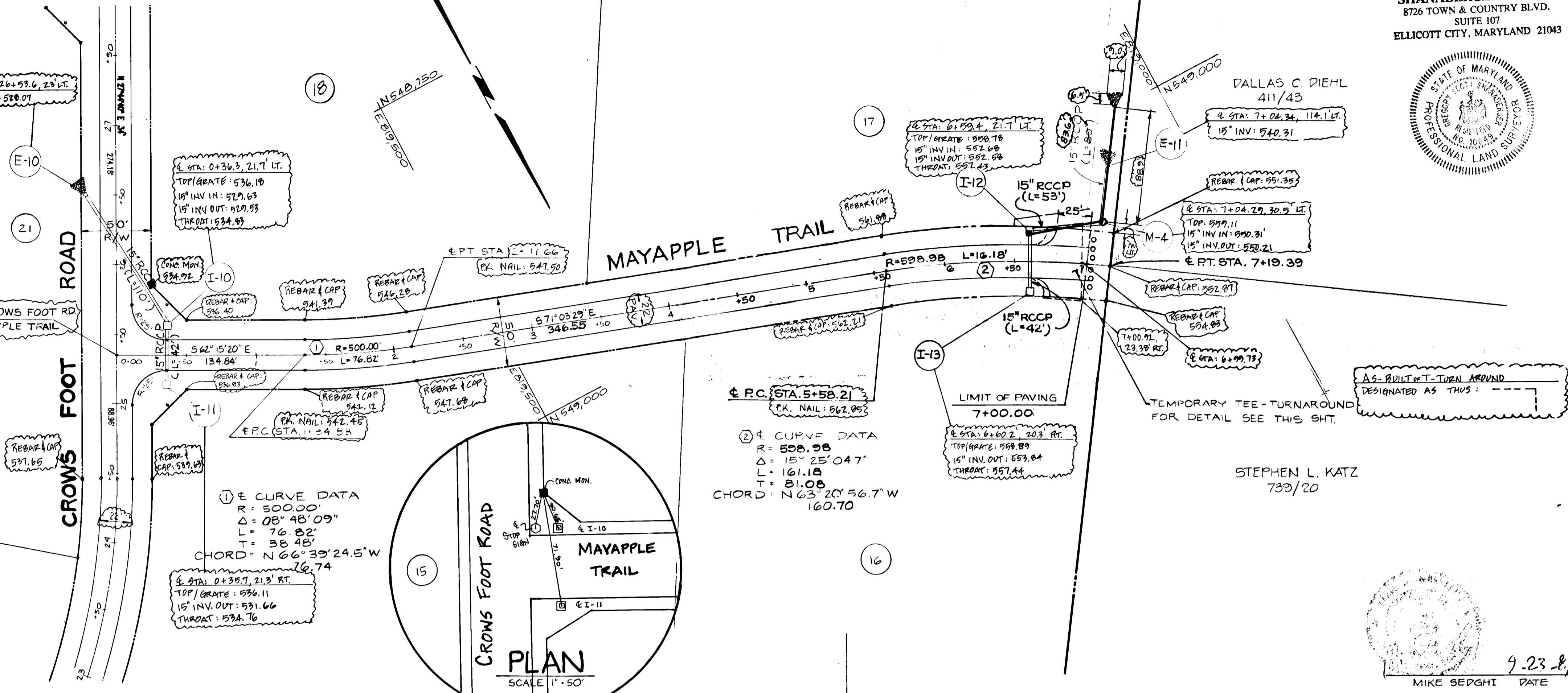
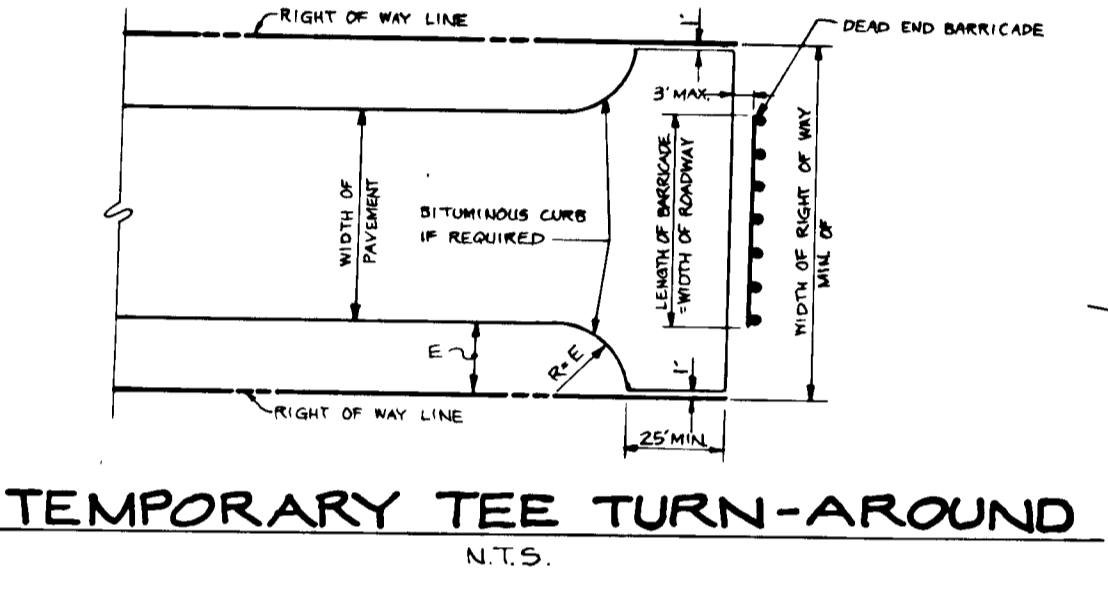
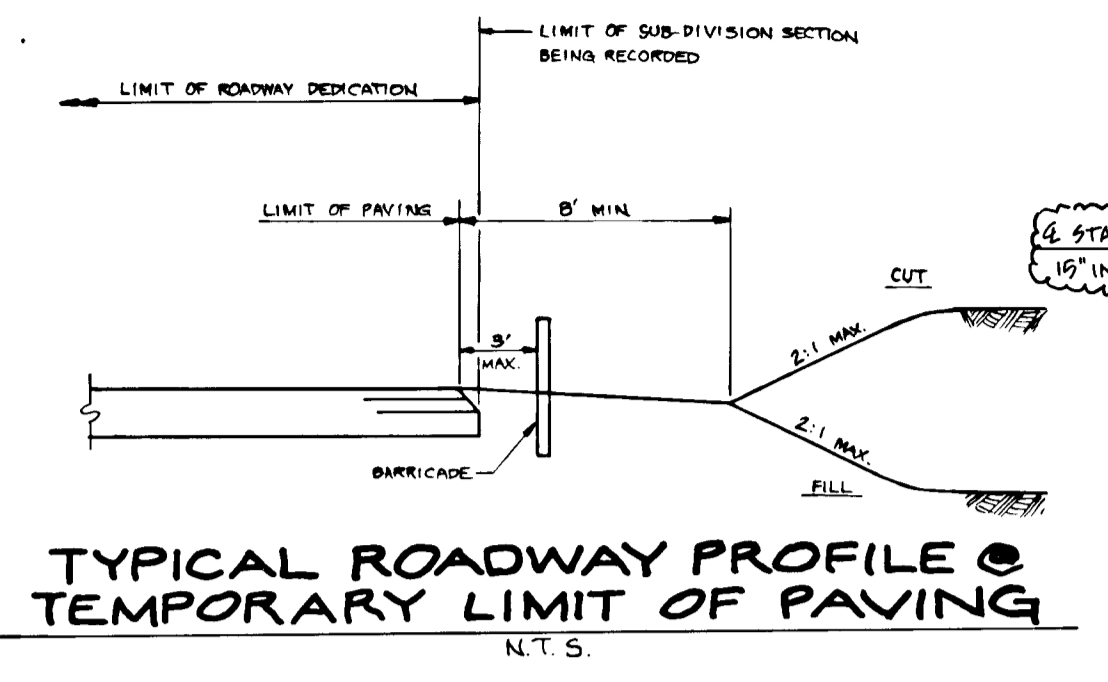
Scott Shanabarger 10/10/00
DATE
SCOTT SHANABARGER
PROFESSIONAL LAND SURVEYOR # 10849
AS-BUILT INFORMATION SHOWN THIS DATE: 10/11/00



APPROVED:
HOWARD CO OFFICE OF PLANNING AND ZONING
John W. Murchison 10-1-87
DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Joseph Seelert 10/1/87
DATE
CHIEF, LAND DEVELOPMENT DIVISION
David W. Weisand 10/1/87
DATE
CHIEF, BUREAU OF HIGHWAYS
Joseph J. Riley 10-5-87
DATE
CHIEF, BUREAU OF ENGINEERING

MEADOWOOD SECTION ONE
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
MAYAPPLE DRIVE TRAIL
PLAN AND PROFILE

DEVELOPER
KOREN DEVELOPMENT CORP. INC.
COLUMBIA, MD 21045
(301) 740-1010
SCALE 1"=50' DATE 5-16-01 DWS NO. 10 OF 21
DESIGNED M.S. DRAWN J.L.C. CHECKED M.S.
REV. 8-22-00
DST&A Inc.
11 WARREN ROAD BALTIMORE MARYLAND 21208 (301) 484-4100



DATE: _____ BY: _____

PLAN

REVISIONS:
NO. DATE BY DESCRIPTION

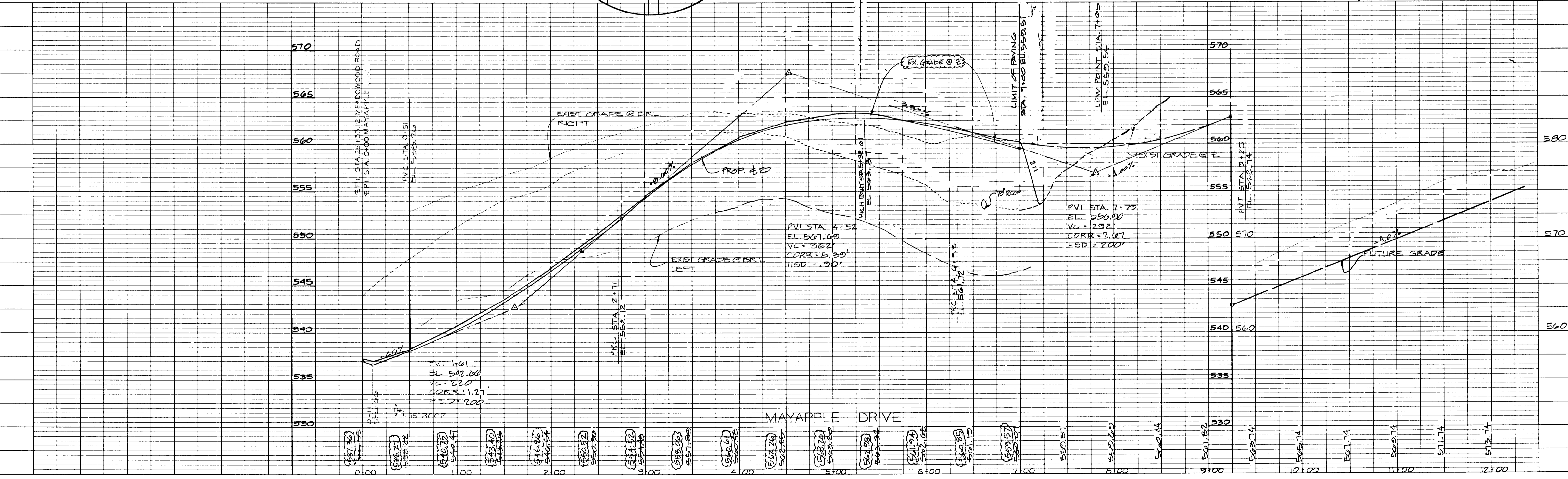
NOTE BOOK: _____
ALPHABETICALLY CHECKED: _____
DATE: _____

DATE: _____ BY: _____

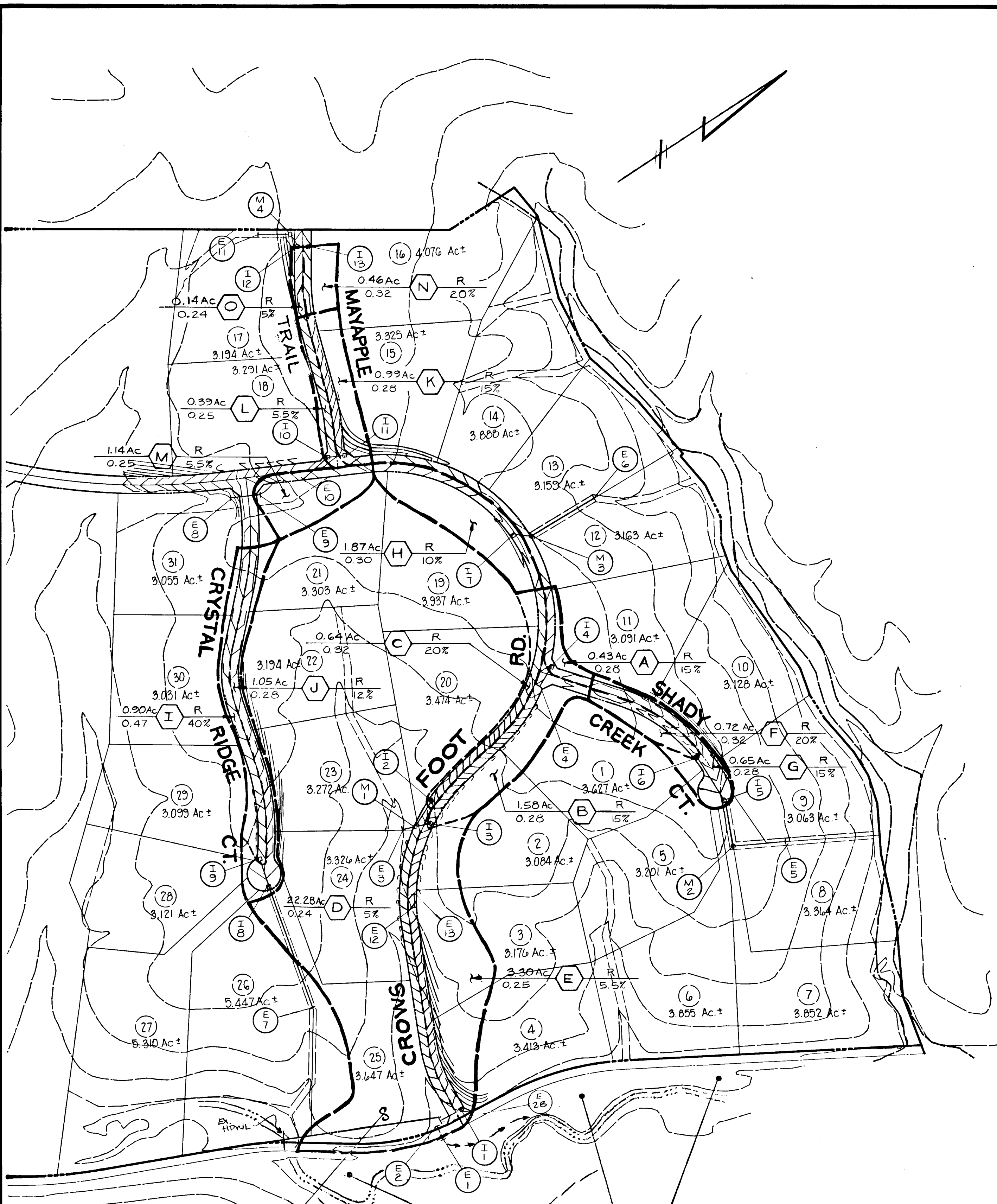
PROFILE

REVISIONS:
NO. DATE BY DESCRIPTION

NOTE BOOK: _____
RANGES CHECKED: _____
DATE: _____
VERTICAL NOTATIONS CHECKED: _____

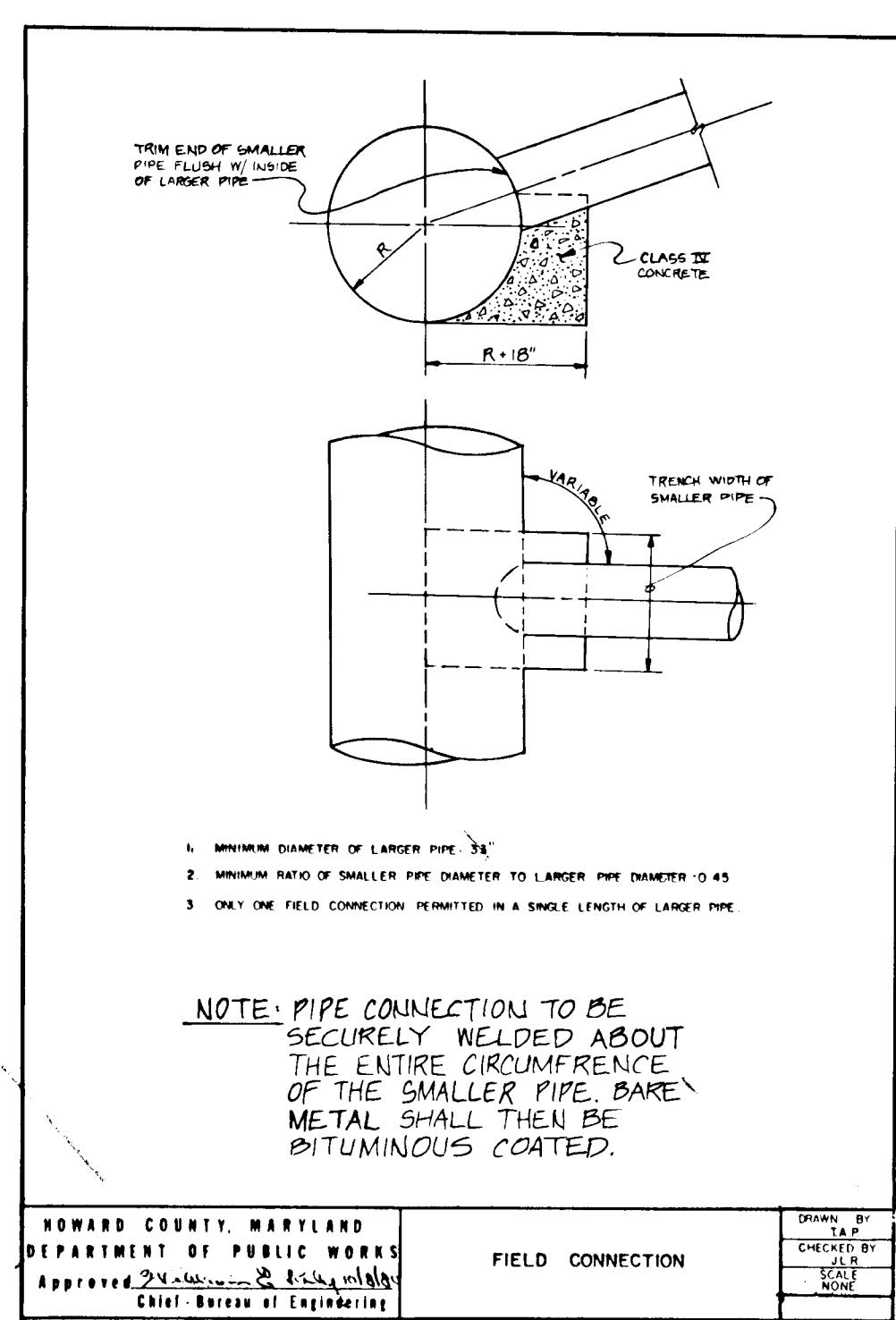
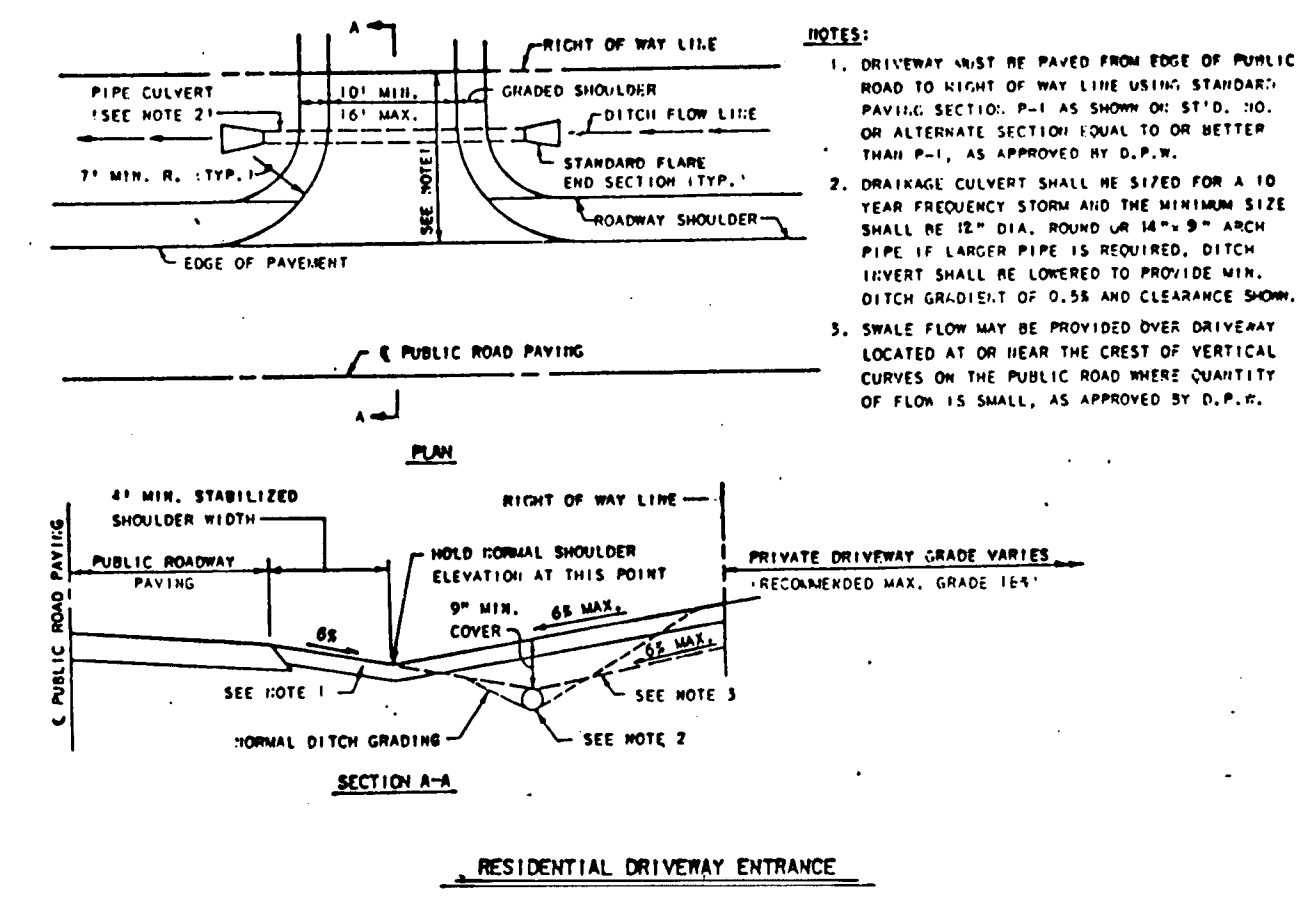


1318



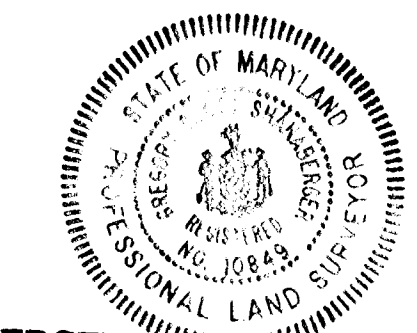
DRAINAGE AREA MAP
SCALE-1"=200'

100 YEAR FLOODPLAIN AREA NOT AFFECTING SUBJECT PROPERTY



		STRUCTURE SCHEDULE				
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP EL.	REMARKS
I-1	"K" INLET	STA. 0+50 CROWS FOOT RD. 21' RT. E	432.84	432.84	432.84	SEE HOW. CO. STD. SD. 4.12 & SD. 4.13
I-2	"K" INLET	STA. 1+00 CROWS FOOT RD. 21' LT. E	432.84	432.84	432.84	"
I-3	"K" INLET	STA. 1+50 CROWS FOOT RD. 21' LT. E	432.84	432.84	432.84	"
I-4	"K" INLET	STA. 2+00 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-5	"K" INLET	STA. 2+50 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-6	"K" INLET	STA. 3+00 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-7	"K" INLET	STA. 3+50 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-8	"K" INLET	STA. 4+00 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-9	"K" INLET	STA. 4+50 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-10	"K" INLET	STA. 5+00 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-11	"K" INLET	STA. 5+50 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-12	"K" INLET	STA. 6+00 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
I-13	"K" INLET	STA. 6+50 CROWS FOOT CT. 25' LT. E	432.84	432.84	432.84	"
M-1	STD. 4' MANHOLE	STA. 0+50 CROWS FOOT RD. 21' LT. E	432.84	432.84	432.84	SEE HOW. CO. STD. G5.01
M-2	"	STA. 1+00 CROWS FOOT RD. 21' LT. E	432.84	432.84	432.84	"
M-3	STD. SHAL. MH	STA. 1+50 CROWS FOOT RD. 21' LT. E	432.84	432.84	432.84	SEE HOW. CO. STD. G5.05
M-4	STD. 4' MANHOLE	STA. 2+00 CROWS FOOT RD. 21' LT. E	432.84	432.84	432.84	SEE HOW. CO. STD. G5.01
E-1	METAL END SEC.	36" BCLMP	432.84	432.84	432.84	SEE HOW. CO. STD. SD. 5.61 OR SD. 5.62
E-2	"	"	432.84	432.84	432.84	"
E-2B	"	15" BCLMP	432.84	432.84	432.84	"
E-3	CONC. END SECT.	STA. 0+50 CROWS FOOT RD. 21' LT. E	432.84	432.84	432.84	SEE HOW. CO. STD. SD. 5.61 OR SD. 5.62
E-4	"	STA. 0+25 SHADY CREEK CT. 25' RT. E	432.84	432.84	432.84	"
E-5	"	"	432.84	432.84	432.84	"
E-6	"	STA. 1+00 CROWS FOOT RD. 21' LT. E	432.84	432.84	432.84	"
E-7	"	"	432.84	432.84	432.84	"
E-8	"	STA. 0+50 CRYSTAL RIDGE CT. 45' RT. E	432.84	432.84	432.84	"
E-9	"	STA. 0+50 CRYSTAL RIDGE CT. 25' LT. E	432.84	432.84	432.84	"
E-10	"	STA. 2+50 RED OAK RD. 21' LT. E	432.84	432.84	432.84	"
E-11	"	STA. 7+00 MAYAPPLE TRAIL 10' LT. E	432.84	432.84	432.84	"
E-12	METAL END SECTION	STA. 6+50 CROWS FOOT RD. 21' RT. E	432.84	432.84	432.84	SEE HOW. CO. STD. SD. 5.61 OR SD. 5.62
E-13	"	STA. 7+00 CROWS FOOT RD. 21' RT. E	432.84	432.84	432.84	"

NOTE: TOP ELEVATIONS ARE TO CENTER OF SIDE SWALE.



SHANABARGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 107
BELLICOTT CITY, MARYLAND 21043

88-BUILT INFORMATION SHOWN THUS:
ROAD AS-BUILT
DATE: 10/18/87
DATE: 10/18/87
DATE: 10-5-87

APPROVED: HOWARD CO OFFICE OF PLANNING AND ZONING
John M. ... 10-1-87
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 10-3-87
CHIEF, LAND DEVELOPMENT DIVISION
... 10/14/87
CHIEF, BUREAU OF HIGHWAYS
... 10-5-87
CHIEF, BUREAU OF ENGINEERING

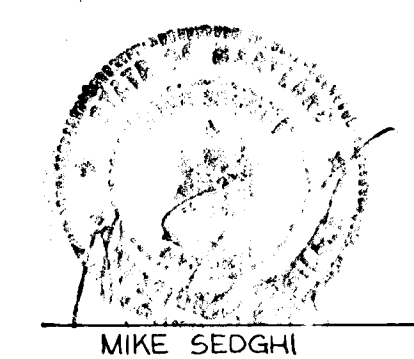
MEADOWOOD SECTION ONE
3rd ELECTION DISTRICT HOWARD CO, MARYLAND
DRAINAGE AREA MAP & STRUCTURE SCHEDULE

DEVELOPER
KOREN DEVELOPMENT CORP. INC.
COLUMBIA, MD. 21045
(301) 740-1010

SCALE: 1"=200' DATE: 5-22-87 DWG # 12 OF 21
DESIGN: TLB DRWN: JLC CHK'D: TLB/MS
DATE: 10/18/87

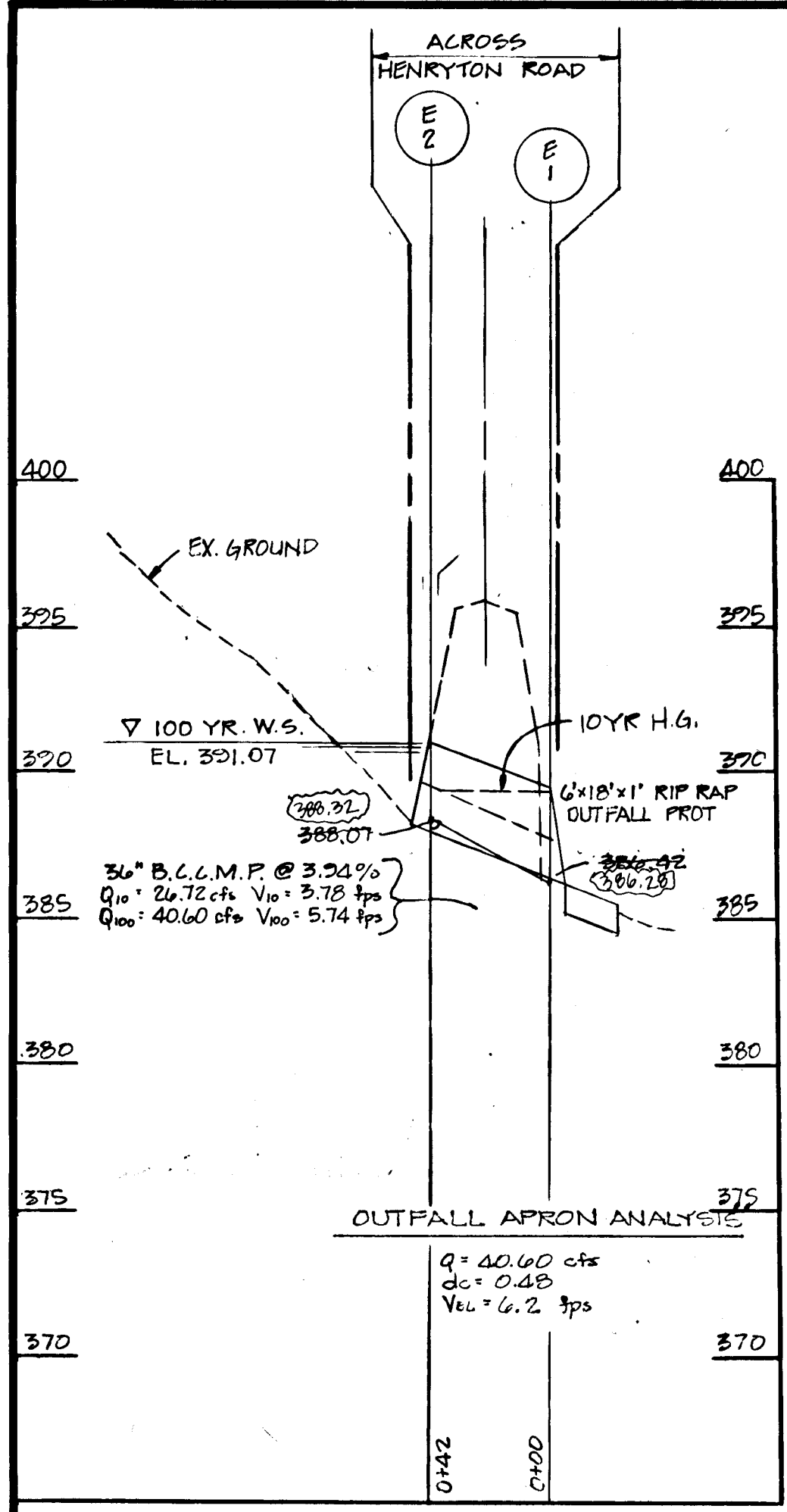
DST & A 11 WARREN RD. BALTIMORE, MD. (301) 484-4100
F-87-201

6-27-89	REPLACED E-14 THRU M-5 WITH 36" AT E-2 TO E-1	C.D.M.
DATE	REVISIONS	BY

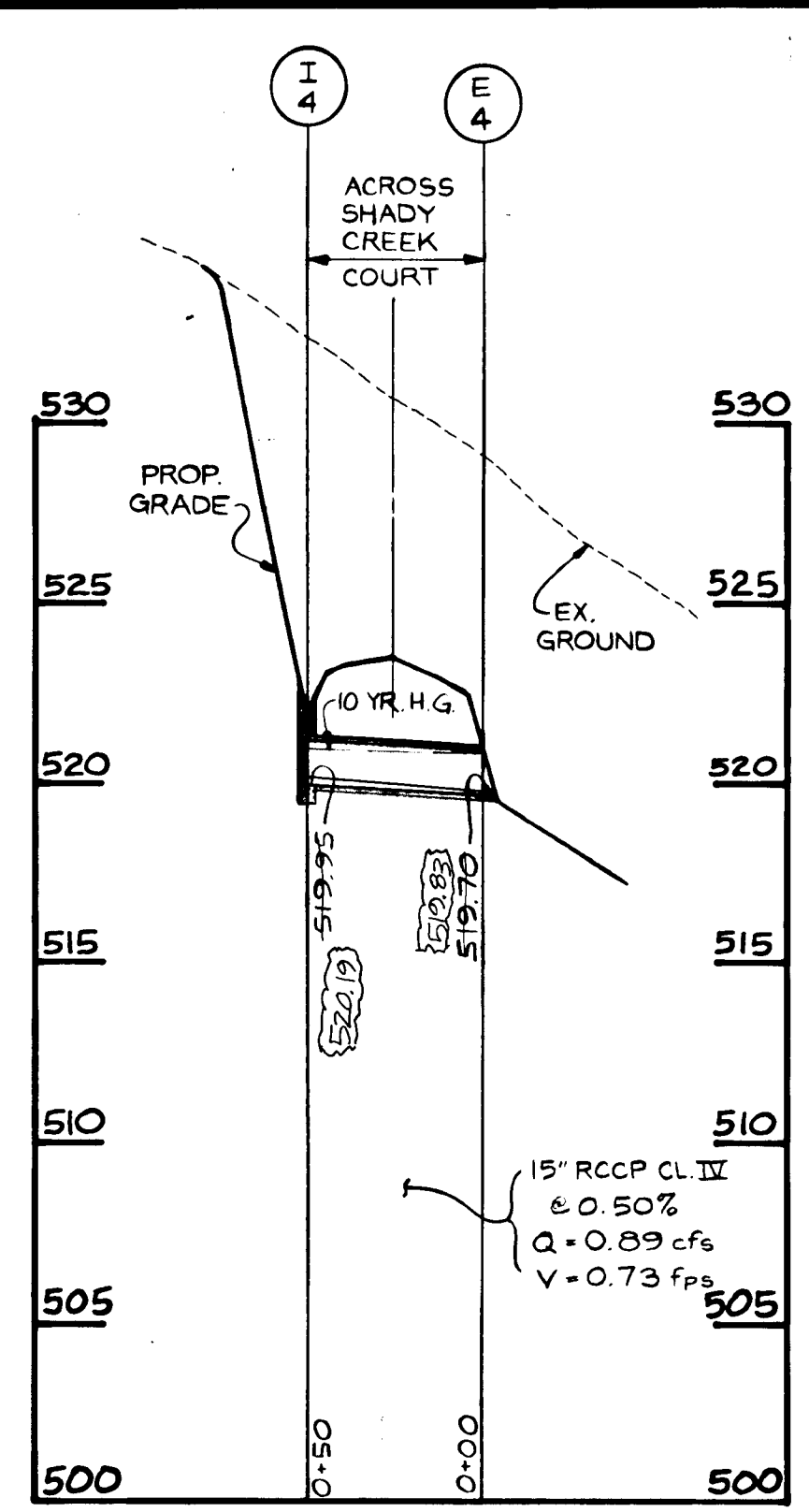
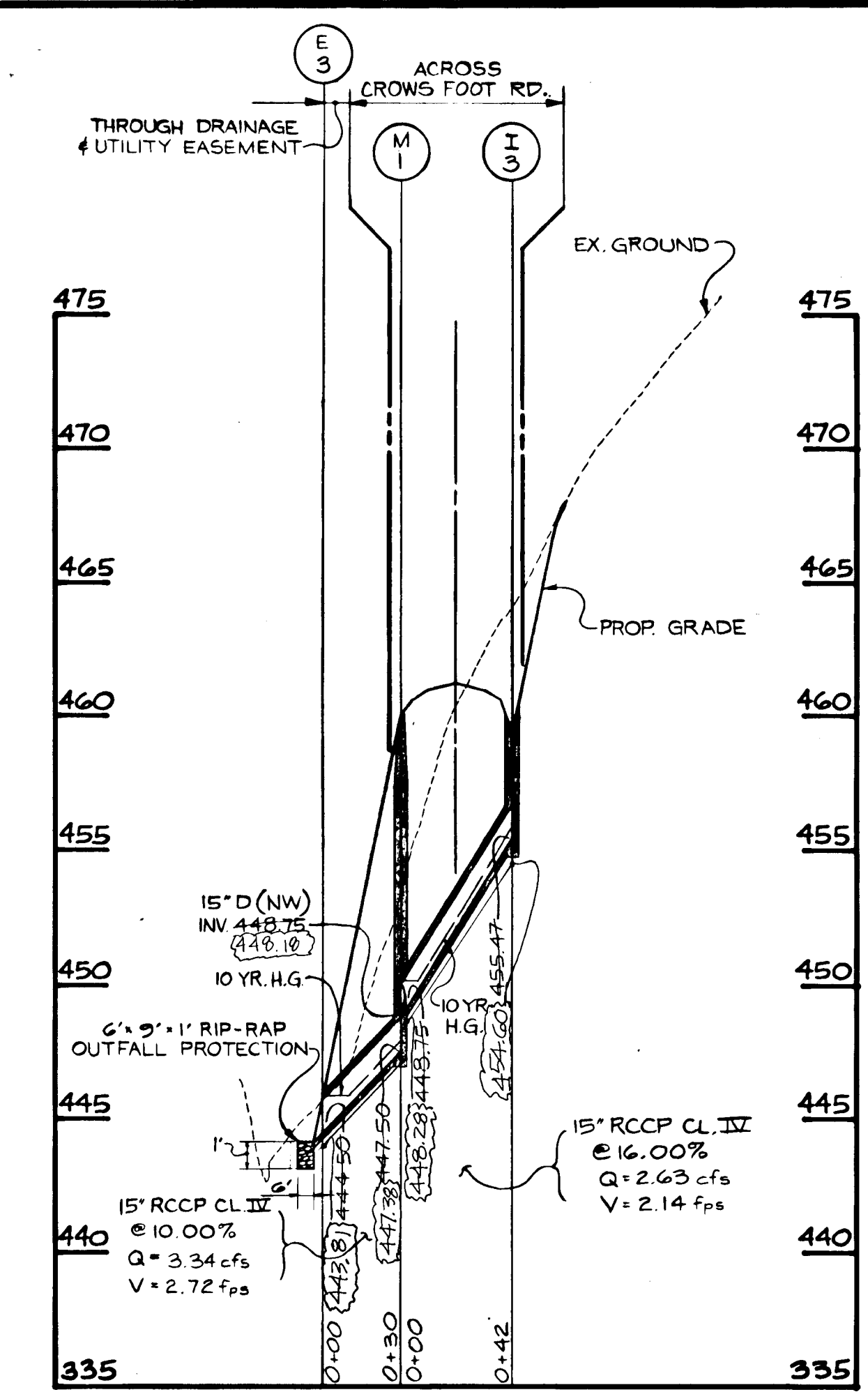
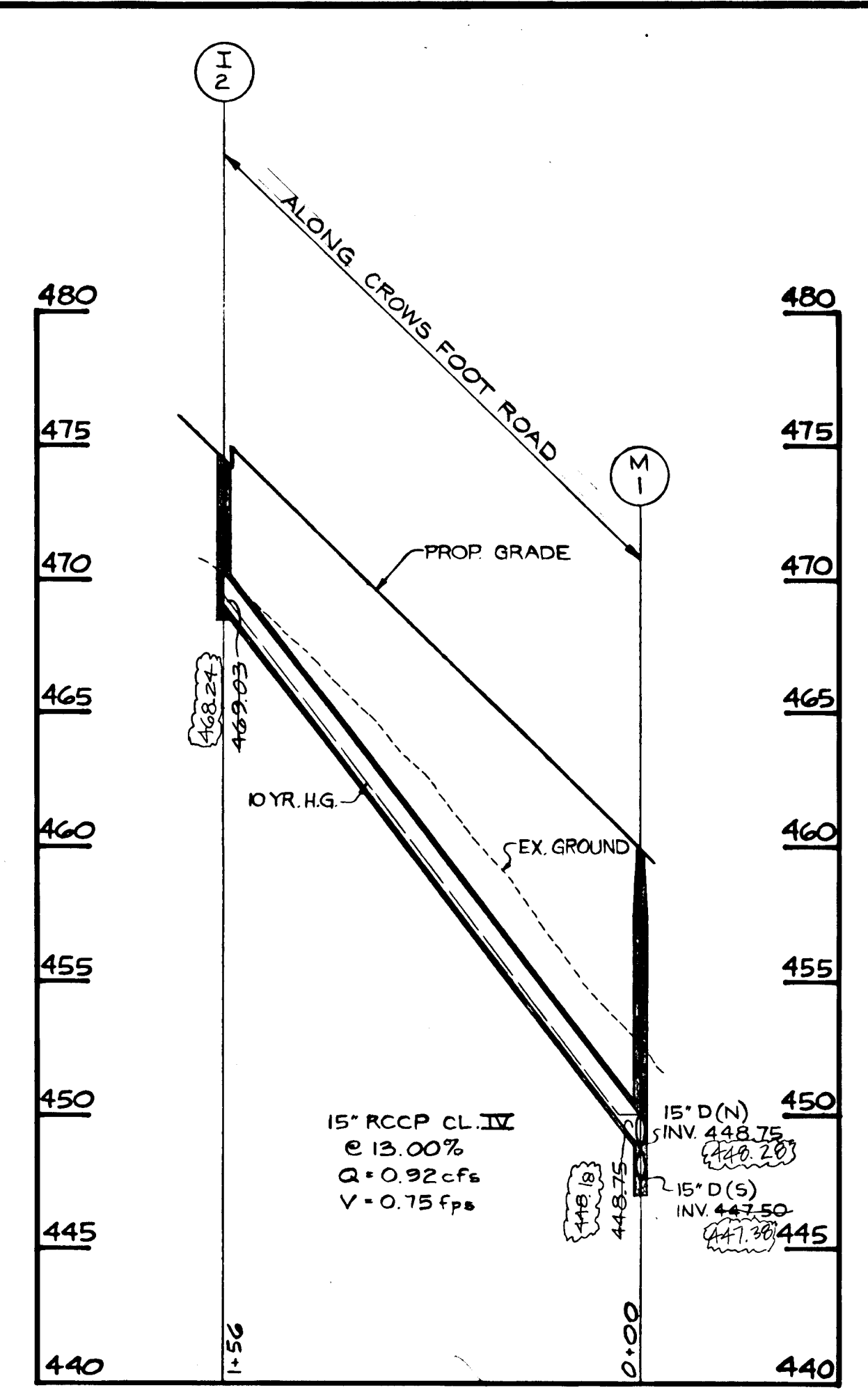


MIKE SEDGHI
DATE: 10/18/87
AS-BUILT

1318

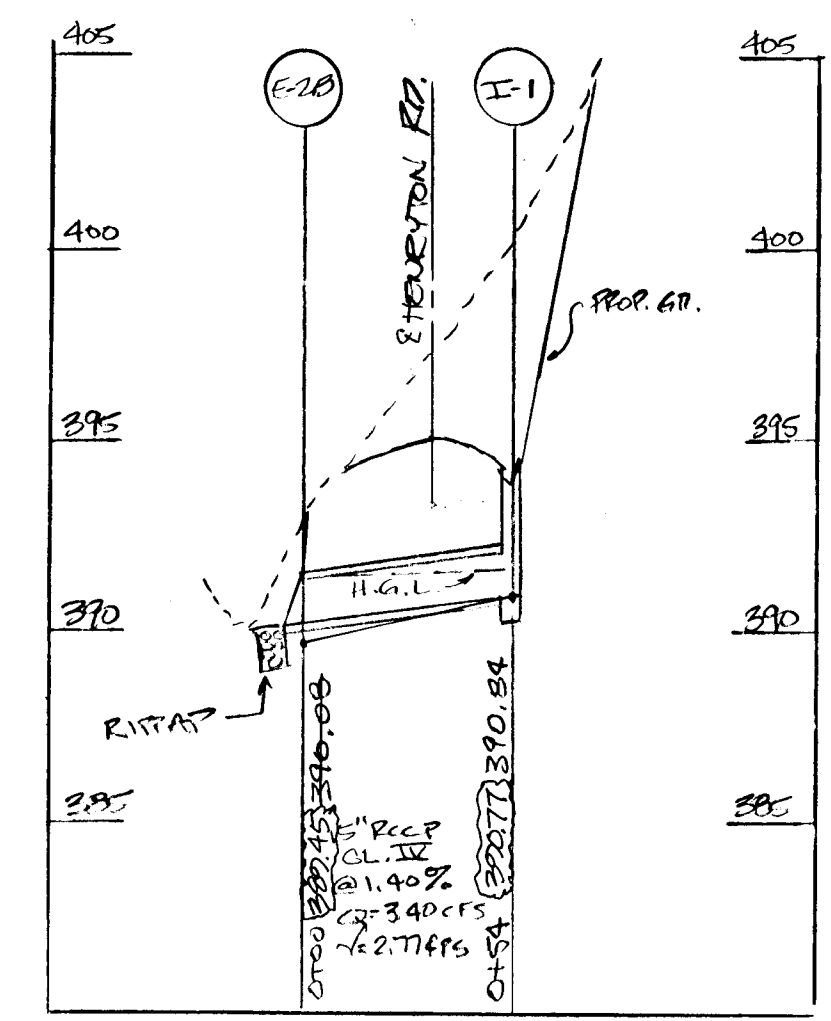


NOTE:
SEE SHEET 12 OF 21 FOR CUT-IN #1 DETAIL



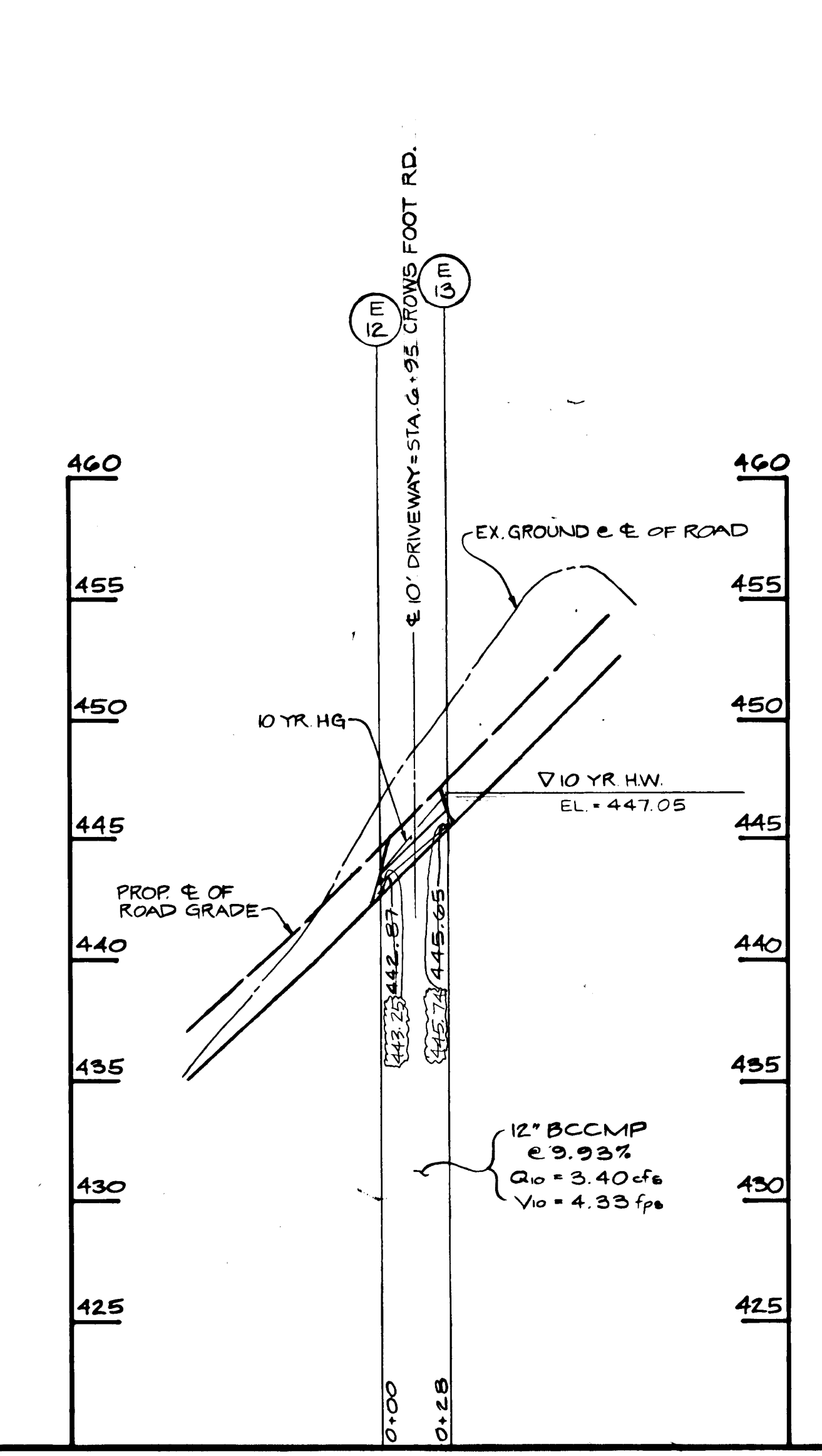
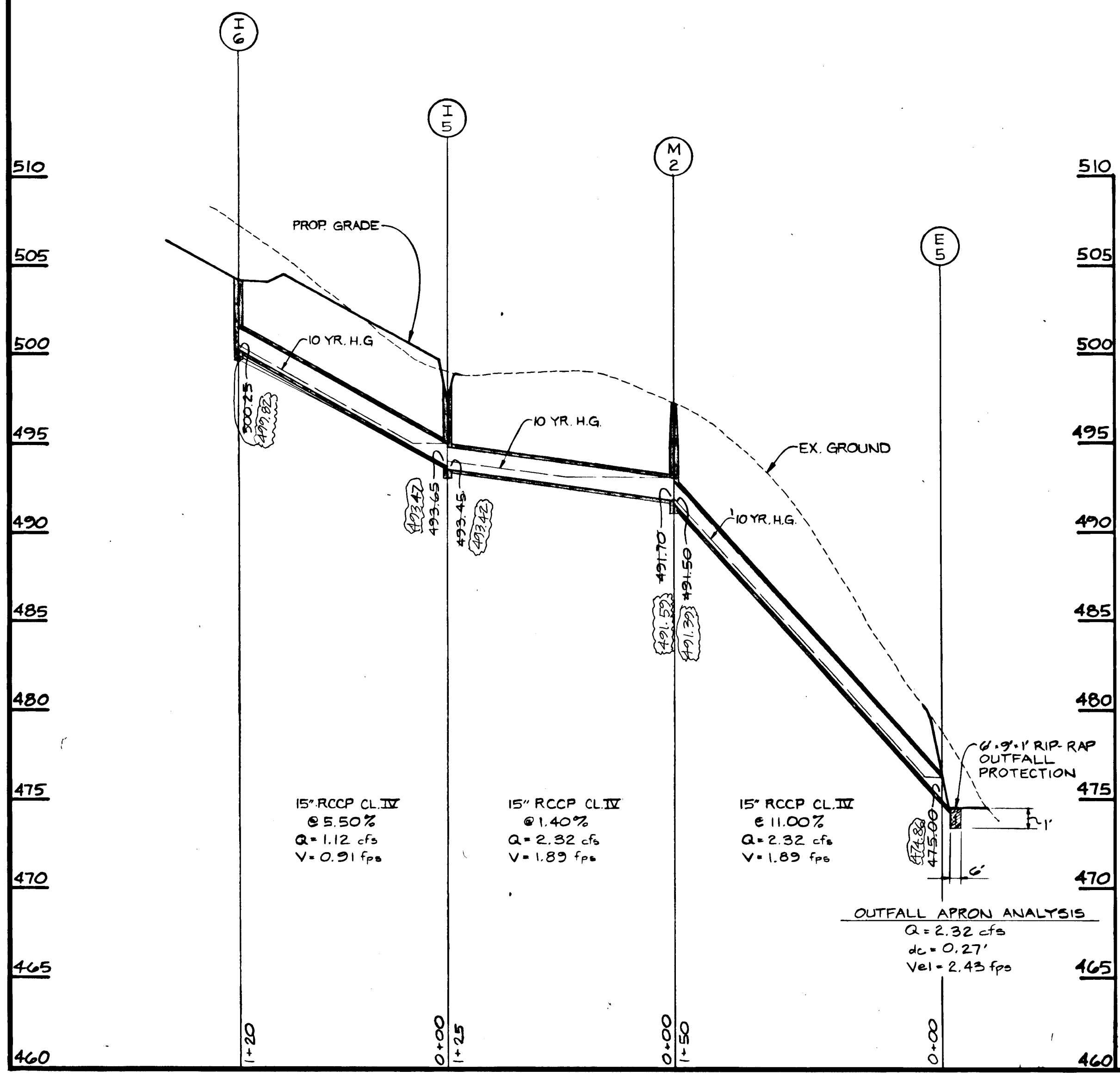
OUTFALL SWALE ANALYSIS

Q = 0.89 cfs
n = 0.04
S = 0.5% (AVG)
dn = 0.40'
Vel = 3.15 fps

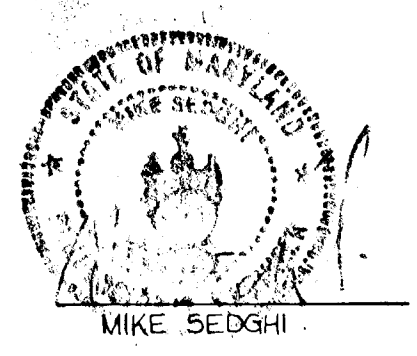


NOTE: ALL RIP-RAP OUTFALL APRONS TO BE PLACED ON FILTER CLOTH.

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 107
ELLICOTT CITY, MARYLAND 21043



DATE	REVISIONS	BY
6-27-89	REPLACED E-14 THRU M-5 WITH 36" @ E-2 TO E-1	L.P.H.



DATE

AS-BUILT
10/18/1990

AS-BUILT INFORMATION SHOWN FROM 3/28/23

ROAD AS-BUILT
G. Scott Shanabarger
G. SCOTT SHANABARGER
PROFESSIONAL LAND SURVEYOR # 10840



APPROVED:
HOWARD CO. OFFICE OF PLANNING AND ZONING
Shawn Wachman 10-1-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert J. Smith 10-5-87
CHIEF, LAND DEVELOPMENT DIVISION DATE

Christelle W. McInerney 10/14/87
CHIEF, BUREAU OF HIGHWAYS DATE

Gregory S. Kelly 10-5-87
CHIEF, BUREAU OF ENGINEERING DATE

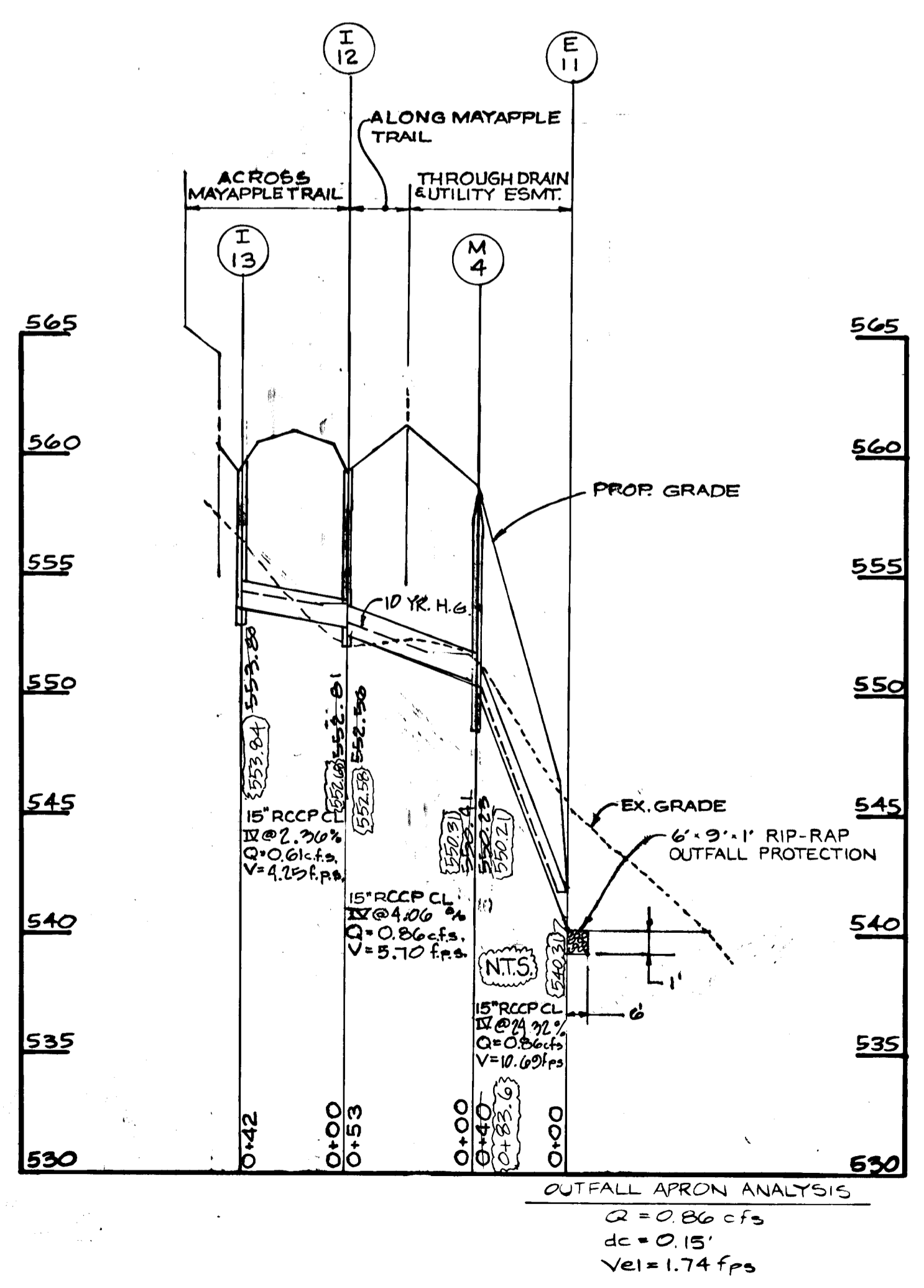
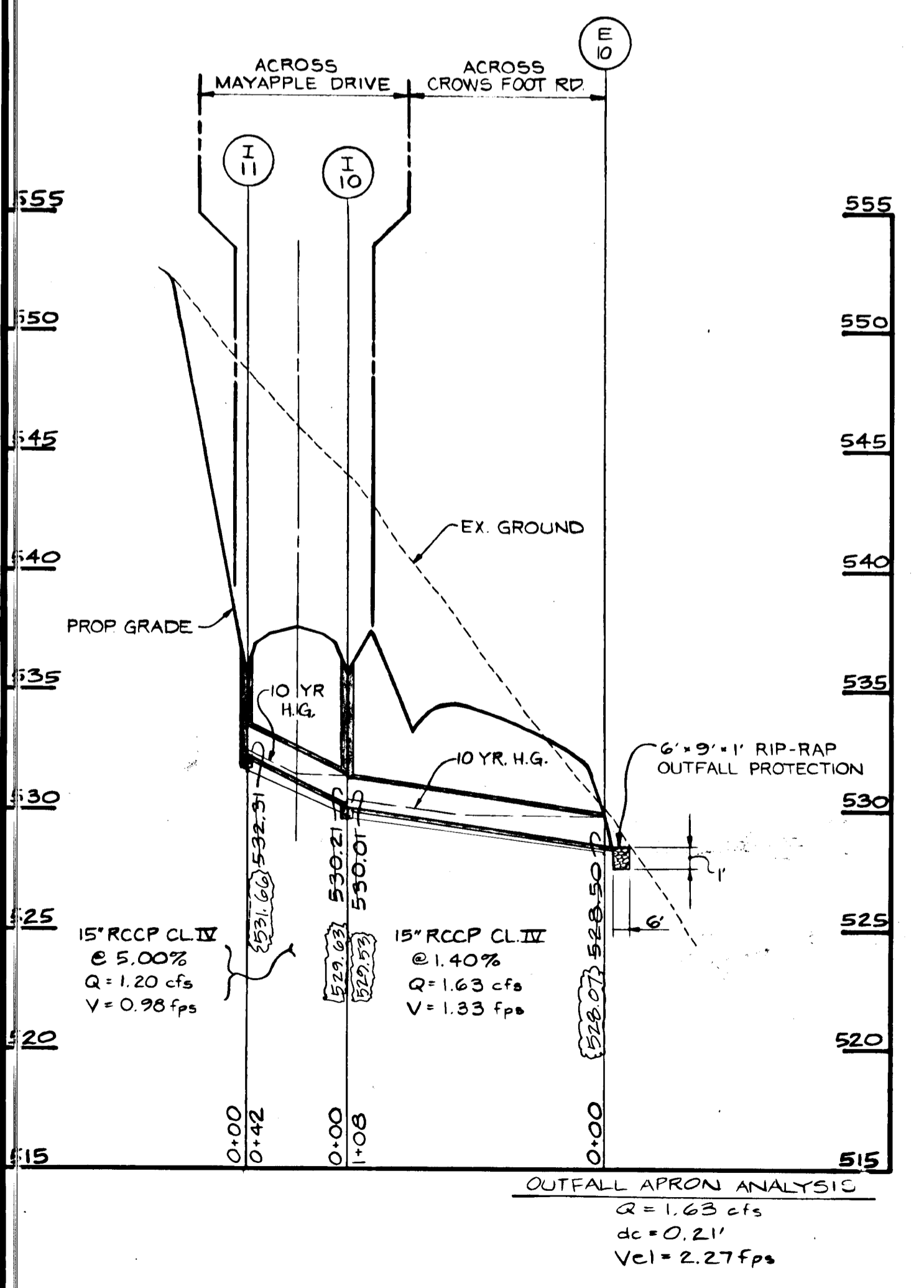
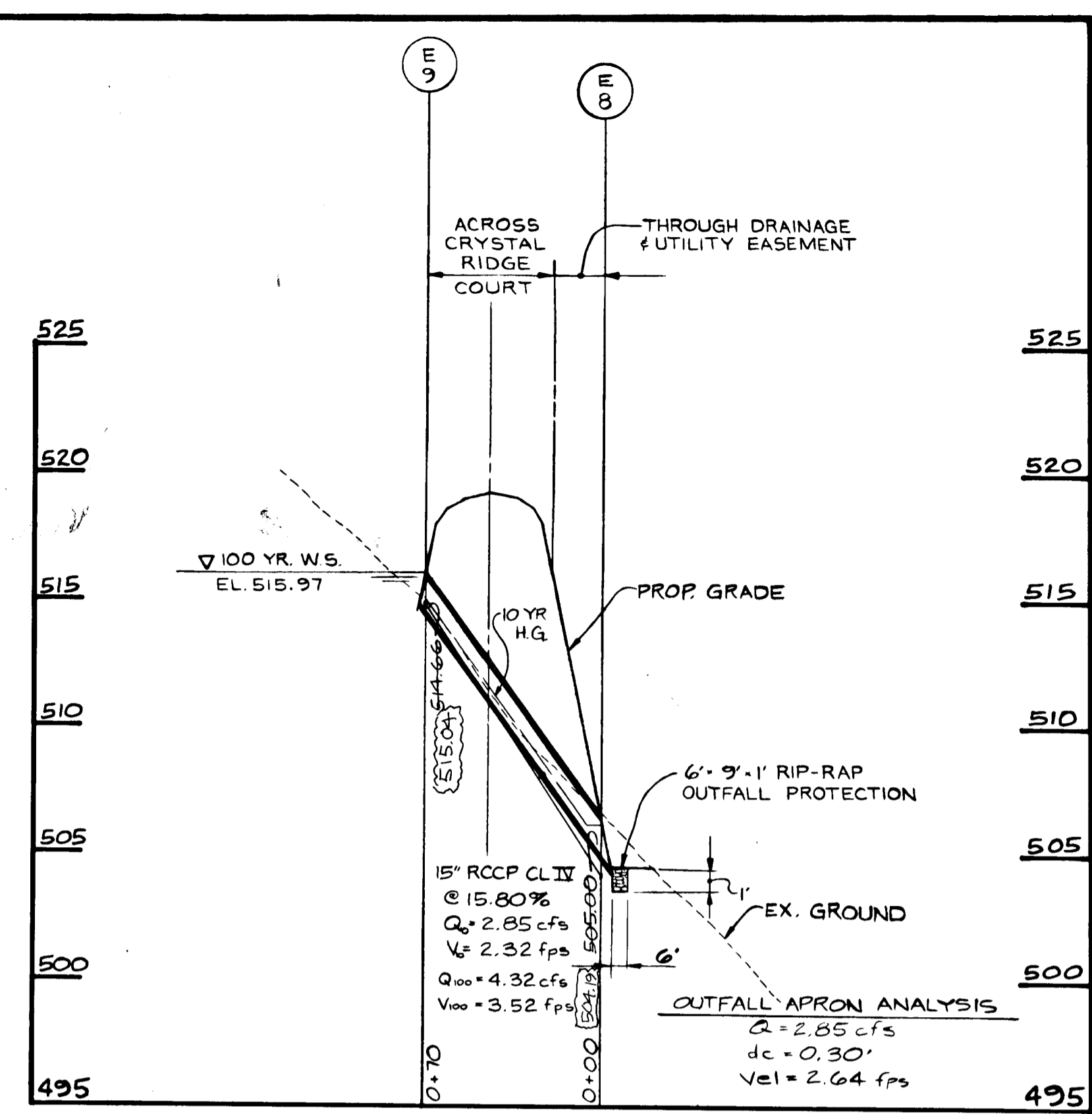
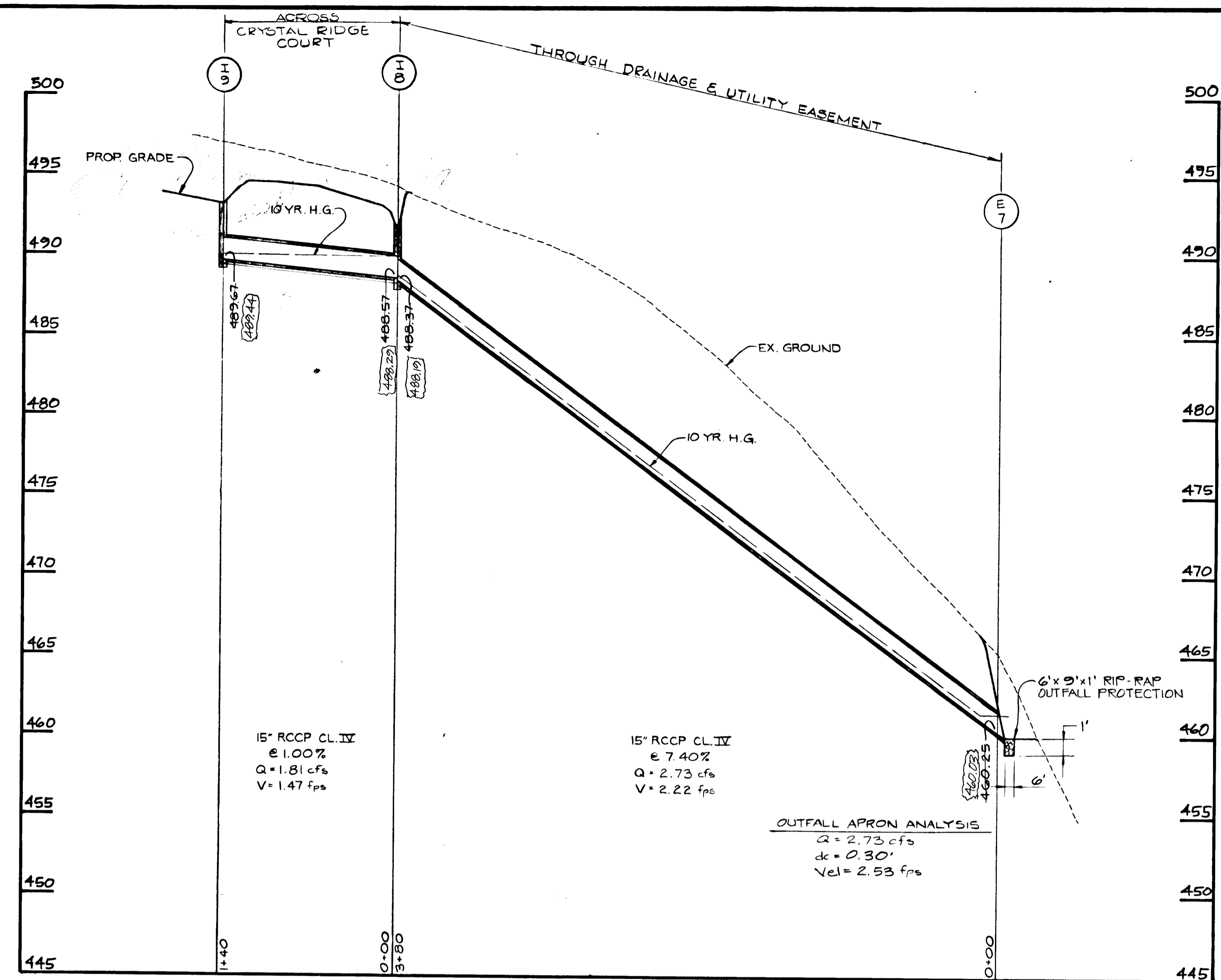
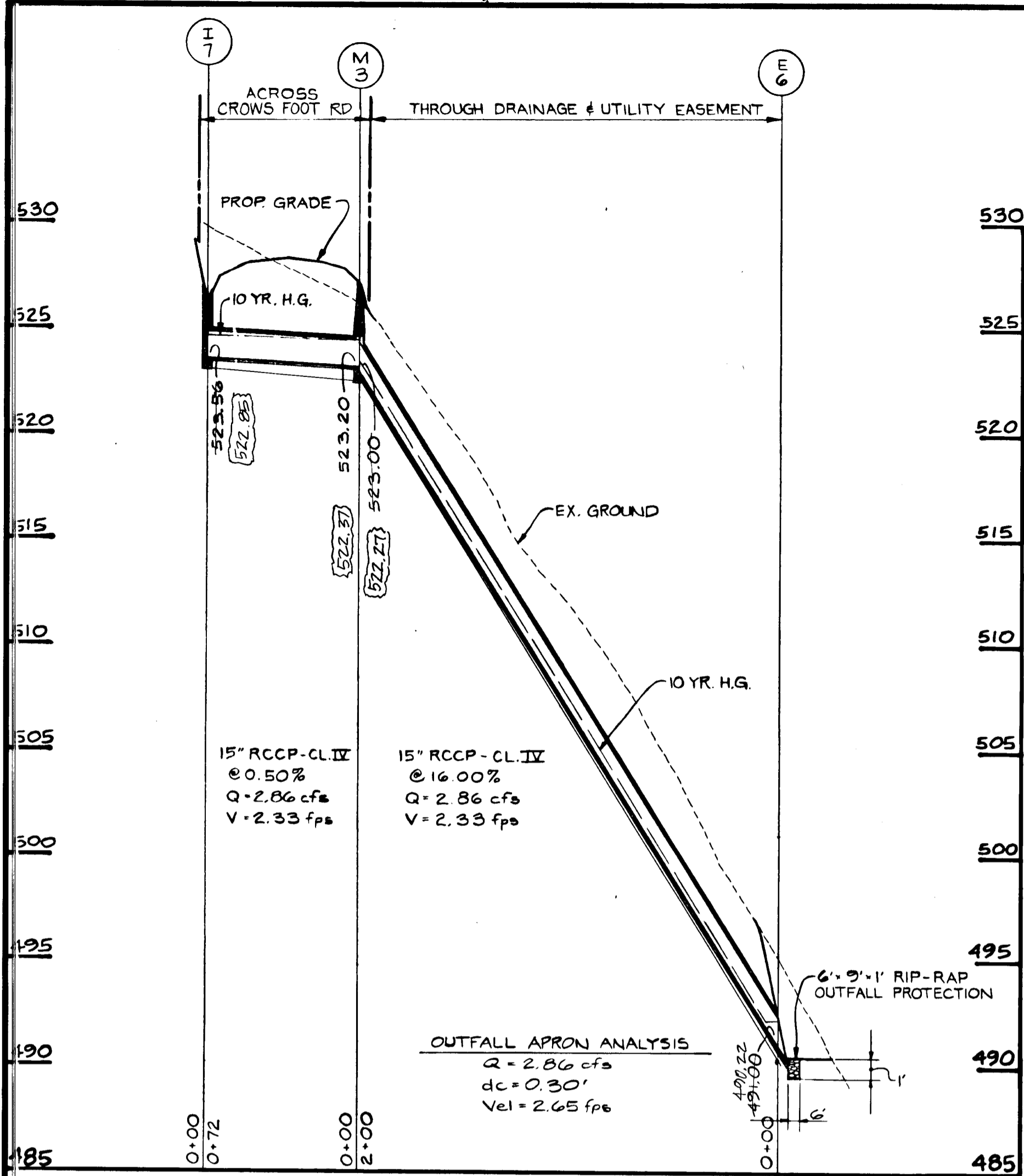
MEADOWOOD SECTION ONE
3rd ELECTION DISTRICT HOWARD CO., MARYLAND
STORM DRAIN PROFILES

DEVELOPER
KOREN DEVELOPMENT CORP. INC.
COLUMBIA, MD. 21045
(301) 740-1010

SCALE: 1" = 50'
DATE: 5-22-87 DWG # 13 OF 21
DESIGN: TLB DRWN: JLC CHK'D: TLB/MS

DST & A
11 WARREN RD. BALTIMORE, MD (301) 484-4100

1518



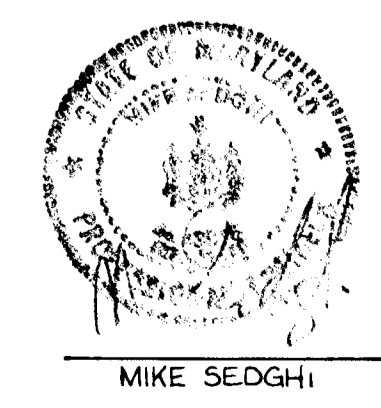
AS-BUILT INFORMATION SHOWN
THIS: 10/18/90
ROAD AS-BUILT
E. SCOTT SHANBERGER
PROFESSIONAL LAND SURVEYOR # 10849

NOTE: ALL RIP-RAP OUTFALL APRONS
TO BE PLACED ON FILTER CLOTH.

SHANBERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 107
ELLCOTT CITY, MARYLAND 21043

APPROVED:
HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John M. Mahan 10-1-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
APPROVED:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John M. Mahan 10/2/87
CHIEF, LAND DEVELOPMENT DIVISION
Franklin W. Weisand 10/1/87
CHIEF, BUREAU OF HIGHWAYS
John M. Mahan 10-5-87
CHIEF, BUREAU OF ENGINEERING

MEADOWOOD SECTION ONE
3rd ELECTION DISTRICT HOWARD CO, MARYLAND
STORM DRAIN PROFILES
DEVELOPER
KOREN DEVELOPMENT CORP. INC.
COLUMBIA, MD 21045
(301) 740-1010
SCALE: H=1"=50' V=1"=5'
DATE: 5-22-87
DESIGN: TLB
DRAWN: JLC
CHKD: TLB/MS
DATE: 9-23-87
Mike Sedghi



AS-BUILT
10/18/1990
F-87-201

1318

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
James M. Thaler 9-29-87
 U.S. SOIL CONSERVATION SERVICE DATE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 APPROVED: *John P. White* 9/29/87
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT DATE

Prior to beginning construction, contractor is to call D.S. Thaler & Associates, Inc., at 484-4100 to verify that he has the most current plan.

- LEGEND**
- EXISTING CONTOURS -----
 - PROPOSED CONTOURS ----- 2.20
 - EXISTING DRAINAGE AREA ●●●●●●●●
 - PROPOSED DRAINAGE AREA ▶▶▶▶▶▶▶▶
 - INLET PROTECTION □-----□
 - DIKE —————
 - SILT FENCE ————S———S———
 - LIMIT OF DISTURBANCE ————
 - MOUNTABLE BERM ————

STONE OUTLET SEDIMENT TRAP #1
 DRAINAGE AREA
 EXISTING = 2.8 AC±
 PROPOSED = 2.8 AC±
 VOLUME
 REQUIRED = 3.20 AC x 27 = 86.4 C.Y.
 PROVIDED = 250.0 C.Y.
 BOTTOM DIMENSIONS = 15' x 20'
 BOTTOM ELEVATION = 397.00'
 CREST ELEVATION = 397.00'
 CLEANOUT ELEVATION = 398.50'
 OUTLET LENGTH = 3.00 AC x 4 = 12.2' (USE 15)
 SIDE SLOPES = 2:1
 TOP OF EMBANKMENT EL. = 402.00'
 d = 3

STONE OUTLET SEDIMENT TRAP #2
 DRAINAGE AREA
 EXISTING = 1.60 AC±
 PROPOSED = 2.40 AC±
 VOLUME
 REQUIRED = 2.40 AC x 27 = 64.8 C.Y.
 PROVIDED = 164.4 C.Y.
 BOTTOM DIMENSIONS = 14' x 28'
 BOTTOM ELEVATION = 422.00'
 CREST ELEVATION = 422.00'
 CLEANOUT ELEVATION = 423.50'
 OUTLET LENGTH = 2.4 AC x 4 = 9.6' (USE 10)
 SIDE SLOPES = 2:1
 TOP OF EMBANKMENT ELEVATION = 427.00'

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Thaler 10/1/87
 CHIEF, LAND DEVELOPMENT DIVISION DATE
James M. Thaler 10/1/87
 CHIEF, BUREAU OF HIGHWAYS DATE
William B. Ray 10-5-87
 CHIEF, BUREAU OF ENGINEERING DATE
 APPROVED:
 HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James M. Thaler 10-1-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 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 COUNTY SOIL CONSERVATION DISTRICT.

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

D.S. THALER & ASSOCIATES, INC.
 11 WARREN ROAD BALTIMORE, MARYLAND 21208
 (301) 484-4100

Mike Sedghi
 MIKE SEDGHI, P.E. 13816
 DATE 9-23-87

Carlton Arian
 DEVELOPER/BUILDER CARLTON ARIAN
 DATE 9-23-87

OWNER
 SPRING HILL ASSOCIATES
 RUTH H. WESTON
 1477 ROUTE 28
 STOKESVILLE, MARYLAND 21784
 (301) 442-2703

DEVELOPER'S MANAGER
 MOREN DEVELOPMENT COMPANY INC.
 SUITE 300 8808 CENTRE PARK DRIVE
 COLUMBIA, MARYLAND 21045
 (301) 740-1010

SEDIMENT CONTROL & GRADING PLAN
MEADOWOOD
 SECTION ONE
 TAX MAP 10
 3RD ELECT DISTRICT HOWARD COUNTY, MD
 SCALE 1"=50'
 SHEET 15 OF 21
 JULY 16, 1987

B157

**STONE OUTLET
SEDIMENT TRAP #3**

DRAINAGE AREA
 EXISTING = 1.50 AC±
 PROPOSED = 1.70 AC±
 VOLUME = 67 = 113.9 C.Y.
 REQUIRED = 1.70 AC * 67 = 113.9 C.Y.
 PROVIDED = 24' * 30' * 120 C.Y.
 BOTTOM DIMENSIONS = 30' * 24'
 BOTTOM ELEVATION = 490.00'
 CREST ELEVATION = 494.00'
 CLEANOUT ELEVATION = 492.00'
 OUTLET LENGTH = 1.70 AC * 4' * 6.8' (USE 7')
 SIDE SLOPE = 2:1
 TOP OF EMBANKMENT ELEVATION = 495.00'
 d = 3'



REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John Mottola 9-27-87
 U.S. SOIL CONSERVATION SERVICE DATE

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

APPROVED:
John R. Roberts 9/27/87
 DISTRICT DATE
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] 9/27/87
 CHIEF, LAND DEVELOPMENT DIVISION DATE

[Signature] 9/27/87
 CHIEF, BUREAU OF HIGHWAYS DATE

[Signature] 9-27-87
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED:
 HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 10-1-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION 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 COUNTY SOIL CONSERVATION DISTRICT.

[Signature]
 MIKE SEDGH, P.E. 13816

9-23-87
 DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

[Signature]
 DEVELOPER/BUILDER CARL G. W. P. A. M.

9-23-87
 DATE

OWNER

SPRING HILL ASSOCIATES
 KATH H. WESTON
 1427 ROUTE 32
 STOKESVILLE, MARYLAND 21784
 (301) 442-2703

DEVELOPER'S MANAGER

WOREN DEVELOPMENT COMPANY INC.
 SUITE 300, 8808 CENTRE PARK DRIVE
 COLUMBIA, MARYLAND 21045
 (301) 740-1010

**SEDIMENT CONTROL &
GRADING PLAN**

MEADOWOOD

SECTION ONE

TAX MAP 10 PARCEL 137D
 3RD ELECT. DISTRICT HOWARD COUNTY, MD
 SCALE 1"=50' JULY 17 1987
 SHEET 16 OF 21

D.S. THALER & ASSOCIATES, INC.
 11 WARREN ROAD BALTIMORE, MARYLAND 21208
 (301) 484-4100

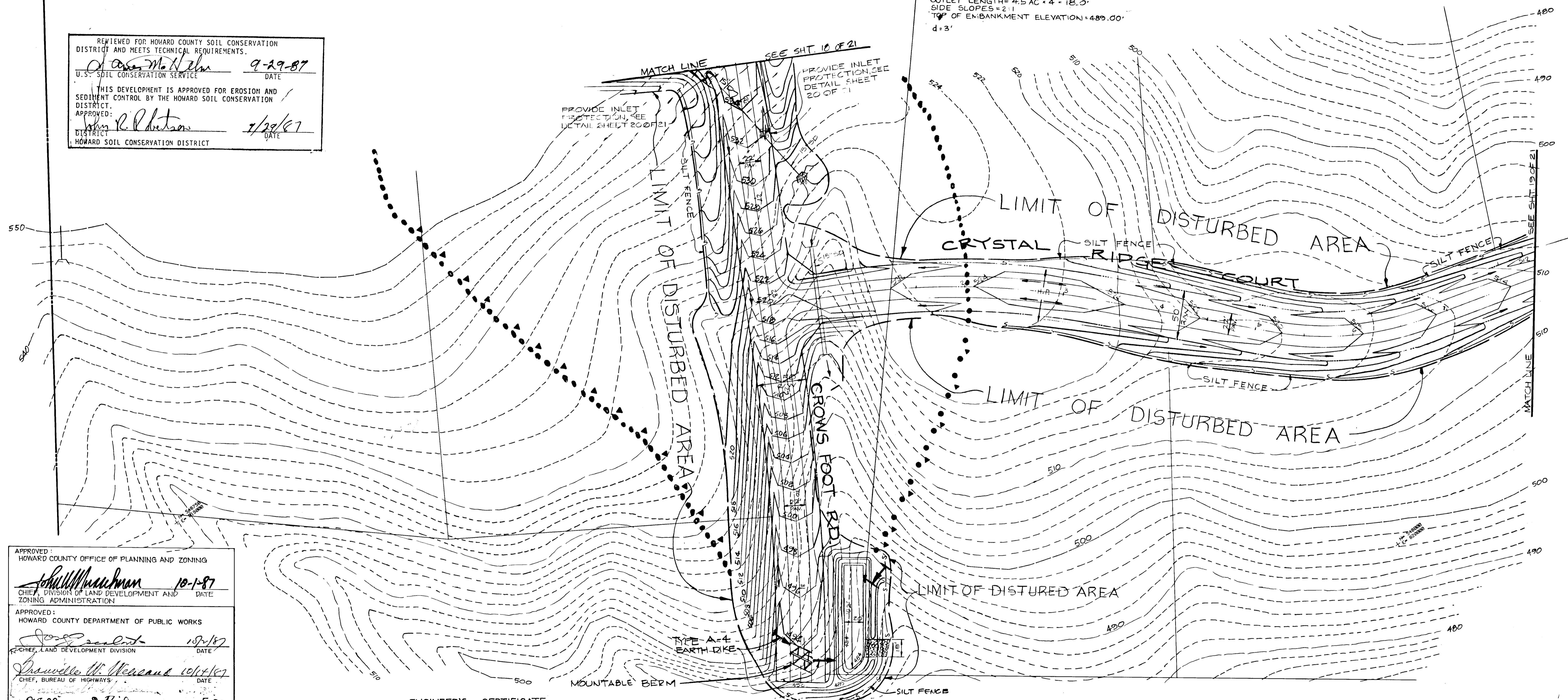
Handwritten notes: 1.5' 1/2" 1/2" 1/2"

BALTO. CO. GRID NORTH

**STONE OUTLET
SEDIMENT TRAP #6**

DRAINAGE AREA
 EXISTING = 4.30 AC =
 PROPOSED = 4.50 AC =
 VOLUME
 REQUIRED = 4.5 AC x 67 = 301.5 CY
 PROVIDED = 312 CY
 BOTTOM DIMENSIONS = 20' x 102'
 BOTTOM ELEVATION = 484.00'
 CREST ELEVATION = 488.00'
 CLEANOUT ELEVATION = 486.00'
 OUTLET LENGTH = 4.5 AC x 4 = 18.0'
 SIDE SLOPES = 2:1
 TOP OF EMBANKMENT ELEVATION = 489.00'
 d = 3'

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
John R. Peterson 9-29-87
 U.S. SOIL CONSERVATION SERVICE DATE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *John R. Peterson* 9/29/87
 DISTRICT DATE
 HOWARD SOIL CONSERVATION DISTRICT



APPROVED:
 HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Shullman 10-1-87
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE
 APPROVED:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Joseph 10/1/87
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Shawille W. Mercand 10/1/87
 CHIEF, BUREAU OF HIGHWAYS DATE
2500 10-5-87
 CHIEF, BUREAU OF ENGINEERING 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 COUNTY SOIL CONSERVATION DISTRICT.
Mike Sedghi
 MIKE SEDGHI, P.E. #13316
 DATE 9-23-87

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
Carolyn Alish
 DEVELOPER/BUILDER CAROLYN ALISH
 DATE 9-23-87

OWNER
 SPRING HILL ASSOCIATES
 RUTH H WESTON
 1421 ROUTE 32
 STOKESVILLE, MARYLAND 21784
 (301) 442-2703

DEVELOPER'S MANAGER
 MOREN DEVELOPMENT COMPANY INC.
 SUITE 300 8808 CENTRE PARK DRIVE
 COLUMBIA, MARYLAND 21045
 (301) 740-1010

SEDIMENT CONTROL & GRADING PLAN
MEADOWOOD
 SECTION ONE
 TAX MAP 10 PARCEL 139
 3RD ELECT. DISTRICT HOWARD COUNTY, MD
 SCALE 1" = 50' JANUARY 31 1987
 SHEET 17 OF 21

D.S. THALER & ASSOCIATES, INC.
 11 WARREN ROAD BALTIMORE, MARYLAND 21208
 (301) 484-4100

8131

F-87-201

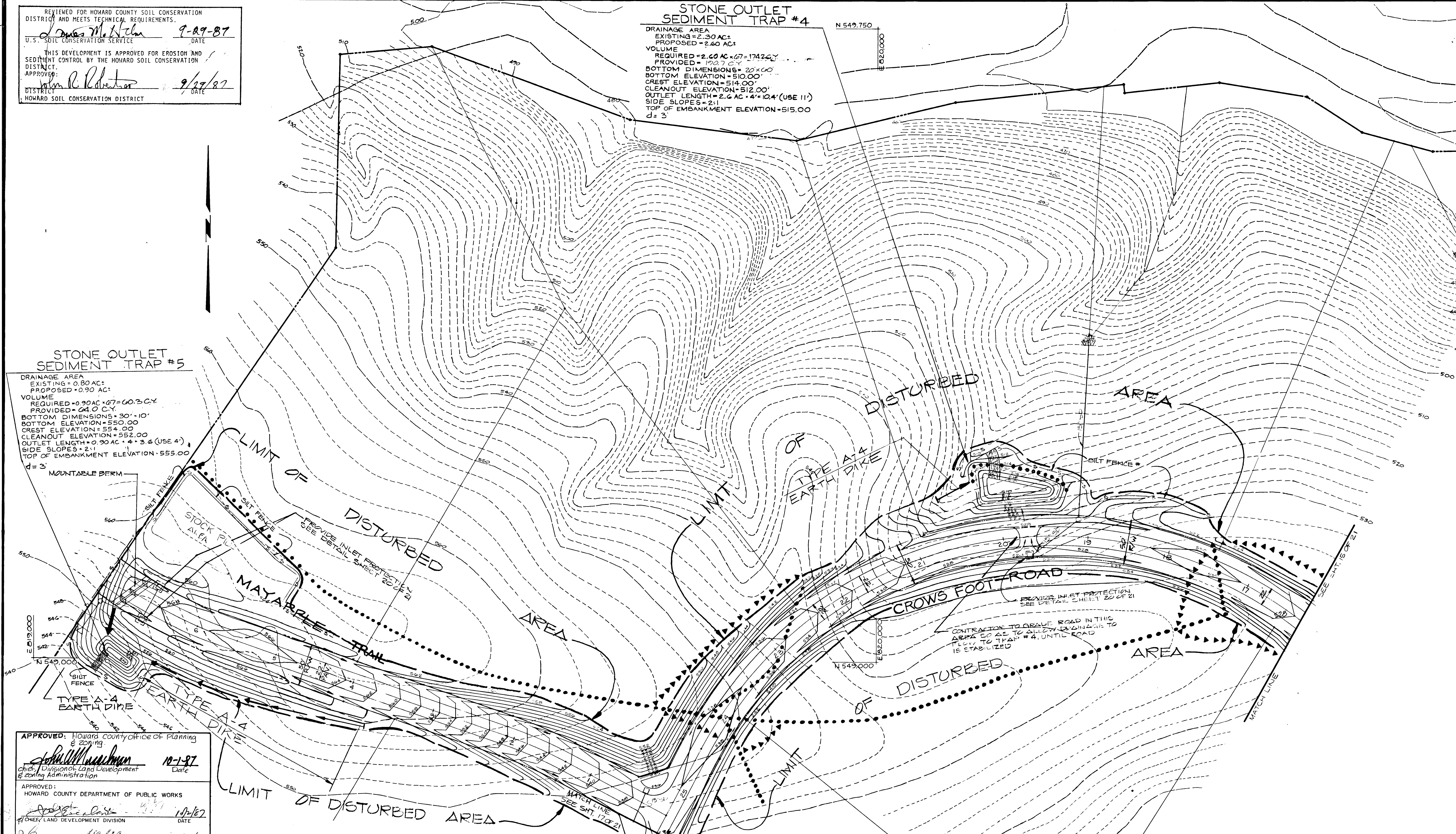
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
James M. Hehn 9-29-87
 U.S. SOIL CONSERVATION SERVICE DATE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 APPROVED: *John R. Redman* 9/29/87
 DISTRICT HOWARD COUNTY SOIL CONSERVATION DISTRICT DATE

STONE OUTLET SEDIMENT TRAP #4

DRAINAGE AREA
 EXISTING = 2.30 AC
 PROPOSED = 2.40 AC
 VOLUME
 REQUIRED = 2.40 AC x 67 = 174.6 C.Y.
 PROVIDED = 190.7 C.Y.
 BOTTOM DIMENSIONS = 20' x 60'
 BOTTOM ELEVATION = 510.00'
 CREST ELEVATION = 514.00'
 CLEANOUT ELEVATION = 512.00'
 OUTLET LENGTH = 2.6 AC x 4' = 10.4' (USE 11')
 SIDE SLOPES = 2:1
 TOP OF EMBANKMENT ELEVATION = 515.00'
 d = 3

STONE OUTLET SEDIMENT TRAP #5

DRAINAGE AREA
 EXISTING = 0.80 AC
 PROPOSED = 0.90 AC
 VOLUME
 REQUIRED = 0.90 AC x 67 = 60.3 C.Y.
 PROVIDED = 64.0 C.Y.
 BOTTOM DIMENSIONS = 30' x 10'
 BOTTOM ELEVATION = 550.00'
 CREST ELEVATION = 554.00'
 CLEANOUT ELEVATION = 552.00'
 OUTLET LENGTH = 0.90 AC x 4' = 3.6' (USE 4')
 SIDE SLOPES = 2:1
 TOP OF EMBANKMENT ELEVATION = 555.00'
 d = 3



APPROVED: Howard County Office of Planning & Zoning
John W. Murchison 10-1-87
 Chief, Division of Land Development & Zoning Administration
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert J. ... 10/2/87
 CHIEF, LAND DEVELOPMENT DIVISION
 APPROVED: *James W. ...* 10/14/87
 CHIEF, BUREAU OF HIGHWAYS
 APPROVED: *William S. ...* 10-5-87
 CHIEF, BUREAU OF ENGINEERING

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 COUNTY SOIL CONSERVATION DISTRICT.

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

D.S. THALER & ASSOCIATES, INC.
 11 WARREN ROAD BALTIMORE, MARYLAND 21208
 (301) 484-4100



Robert J. ... 9-23-87
 DEVELOPER/BUILDER DATE

OWNER
 SPRING HILL ASSOCIATES
 RUTH H WESTON
 1427 ROUTE 32
 SYKESVILLE, MARYLAND 21784
 (301) 642-2700

DEVELOPER'S MANAGER
 MOREN DEVELOPMENT COMPANY INC.
 SUITE 300 8808 CENTRE PARK DRIVE
 COLUMBIA, MARYLAND 21045
 (301) 740-1010

SEDIMENT CONTROL & GRADING PLAN
MEADOWOOD
 SECTION ONE
 TAX MAP 10 PARCEL 137
 3RD ELECT. DISTRICT HOWARD COUNTY, MD
 SCALE 1" = 50' JANUARY 31, 1987
 SHEET 18 OF 21

F-87-201

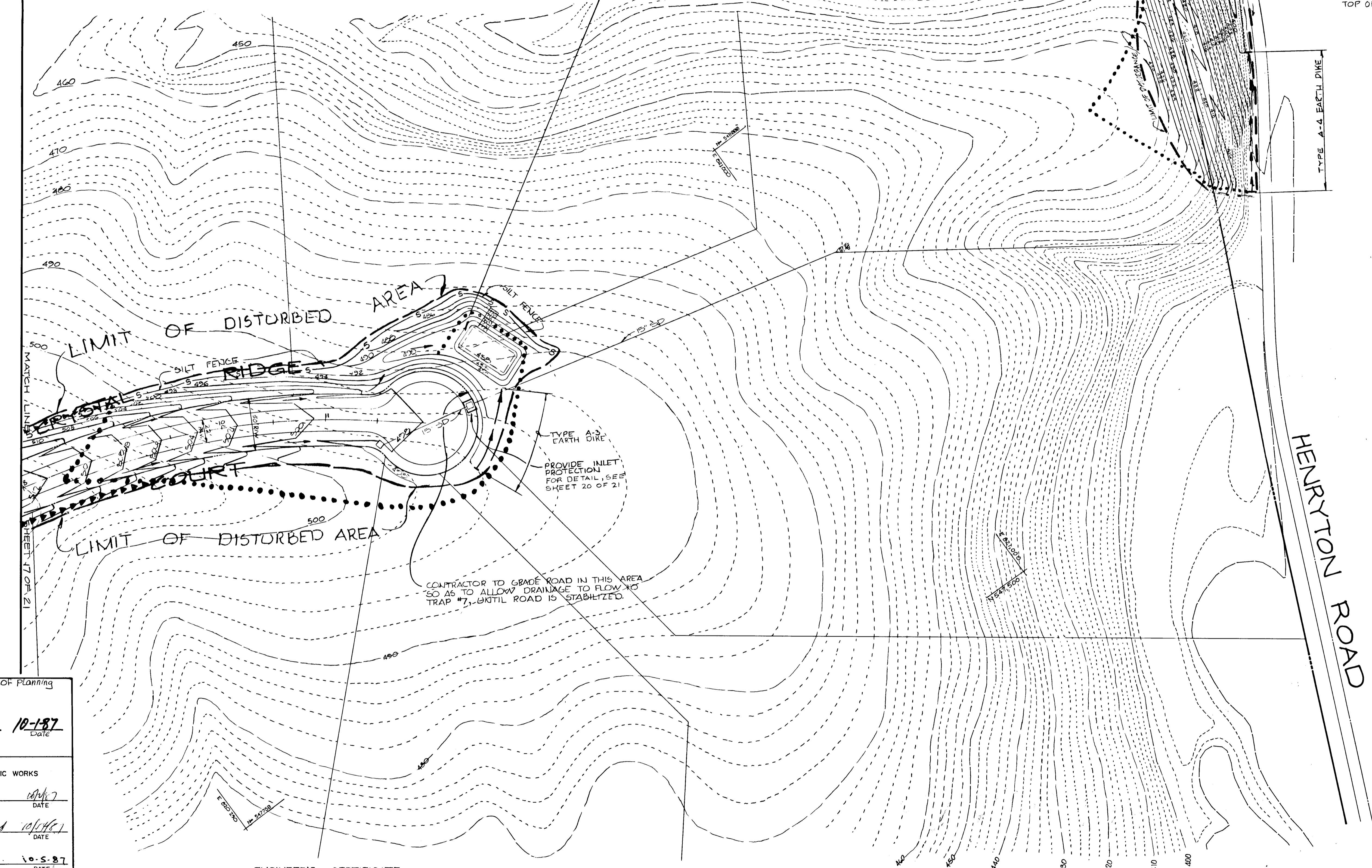
1318

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
James M. Nelson 9-29-87
 U.S. SOIL CONSERVATION SERVICE DATE
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *John R. Roberts* 9/29/87
 DISTRICT DATE
 HOWARD SOIL CONSERVATION DISTRICT

STONE OUTLET SEDIMENT TRAP #7
 DRAINAGE AREA
 EXISTING = 1.20 AC
 PROPOSED = 2.20 AC
 VOLUME
 REQUIRED = 2.2 AC x 67 = 147.4 CY
 PROVIDED = 154.0 CY
 BOTTOM DIMENSIONS = 20' x 48'
 BOTTOM ELEVATION = 485.00'
 CREST ELEVATION = 489.00'
 CLEANOUT ELEVATION = 487.00'
 OUTLET LENGTH = 2.2 AC x 4' = 8.8' (USE 9')
 SIDE SLOPES = 2:1
 TOP OF EMBANKMENT ELEVATION = 490.00'
 d = 3'

STONE OUTLET SEDIMENT TRAP #8
 DRAINAGE AREA
 EXISTING = 0.6 AC
 PROPOSED = 0.6 AC
 VOLUME
 REQUIRED = 0.6 x 1,800 = 1,080
 PROVIDED = 1,220 CF
 BOTTOM DIMENSIONS = 2' x 6'
 BOTTOM ELEVATION = 396.00'
 CREST ELEVATION = 399.00'
 CLEANOUT ELEVATION = 397.00'
 WEIR LENGTH = 0.6 x 4 = 2.4' (USE 5')
 SIDE SLOPES = 2:1
 DEPTH = 2.0'
 TOP OF EMBANKMENT EL. = 400.00'

NOTE: ALL EXCESS MATERIAL FROM THIS INDIVIDUAL CONSTRUCTION AREA MUST BE "TRUCKED" TO OTHER ON-SITE LOCATIONS FOR USE. THERE SHALL BE NO OVERLAND HAULING OF THIS MATERIAL.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
John M. Munchman 10-1-87
 Chief, Division of Land Development & Zoning Administration
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Joseph J. Williams 10/1/87
 Chief, Bureau of Highways
William S. Kelly 10-5-87
 Chief, Bureau of Engineering

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 COUNTY SOIL CONSERVATION DISTRICT.
Mike Sedghi
 MIKE SEDGHI, P.E. 13616
 DATE 9-23-87

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
Calvin Aliah
 DEVELOPER/BUILDER CALVIN ALIAH
 DATE 9-23-87

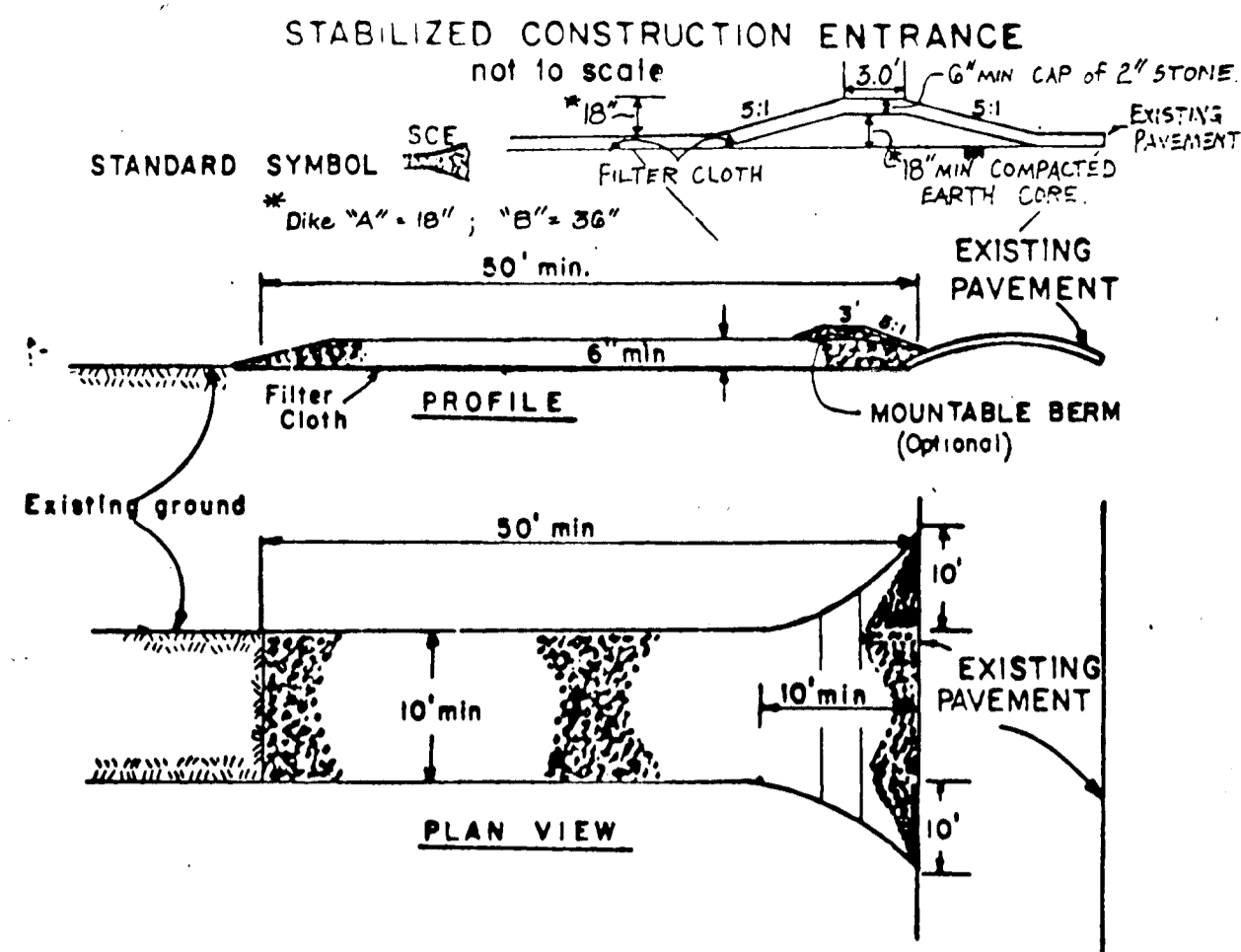
D.S. THALER & ASSOCIATES, INC.
 11 WARREN ROAD BALTIMORE, MARYLAND 21208
 (301) 484-4100

OWNER
 SPRINGS HILL ASSOCIATES
 RUTH H. WESTON
 1477 ROUTE 25
 STRESVILLE, MARYLAND 21704
 (301) 442-2703

DEVELOPER'S MANAGER
 MOREN DEVELOPMENT COMPANY INC.
 SUITE 300 8808 CENTRE PARK DRIVE
 COLUMBIA, MARYLAND 21045
 (301) 740-1010

SEDIMENT CONTROL & GRADING PLAN
MEADOWOOD
 SECTION ONE
 TAX MAP 10 PARCEL 120
 3RD ELECT. DISTRICT HOWARD COUNTY, MD
 SCALE 1" = 50' JULY 16, 1987
 SHEET 19 OF 21

F-87-201



CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
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 toward 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.

PERMANENT SEEDING NOTES

Seedbed Preparation: Loosen upper 3 inches of soil by raking, disking or other acceptable means before seeding.

Soil Amendments: 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. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9lbs./1000 sq. ft.)
- 2.) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs. per acre (1.4 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 2 lbs. per acre (.05 lbs./1000 sq. ft.) of weeping lovegrass. During the period of October 15 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching - Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal./1000 sq. ft.) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseeding.

TEMPORARY SEEDING NOTES

Seedbed Preparation: Loosen upper 3 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 periods March 1 thru April 30 and from August 15 thru November 15, seed with 24 bu. per acre of annual rye (3.2 lbs./1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs./1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal./1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 348 gal. per acre (8 gal./1000 sq. ft.) for anchoring.

STANDARD AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION WITH SOD

SPECIFICATIONS

1. Class of turfgrass sod shall be Maryland or Virginia State Certified, or Maryland or Virginia State approved sod.
2. Sod shall be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch, at the time of cutting. Measurement for thickness shall exclude top growth and thatch.
3. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically with a firm grasp on the upper 10 percent of the section.
4. Individual pieces of sod shall be cut to the suppliers width and length. Maximum allowable deviation from standard widths and lengths shall be 5 percent. Broken pads and torn or uneven ends will not be acceptable.
5. Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversely affect its survival.
6. Sod shall be harvested, delivered and installed within a period of 36 hours. Sod not transplanted within this period shall be inspected and approved prior to its installation.

I. Site Preparation

Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test, fertilizer and lime materials may be applied in amounts shown under B, below.

- A. Prior to sodding, the surface shall be cleared of all trash, debris, and of all roots, brush, wire, grade stakes and other objects that would interfere with planting, fertilizing or maintenance operations.
- B. Where the soil is acid or composed of heavy clays, ground limestone shall be spread at the rate of 2 tons/acre or 100 pounds per 1,000 square feet. In all soils 1,000 pounds per acre or 25 pounds per 1,000 square feet of 10-10-10 fertilizer or equivalent shall be uniformly applied and mixed into the top 3 inches of soil with the required lime.
- C. All areas receiving sod shall be uniformly fine graded. Hard-packed earth shall be scarified prior to placement of sod.

II. Sod Installation

- A. During periods of excessively high temperature the soil shall be lightly irrigated immediately prior to laying the sod.
- B. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and tightly wedged against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots.
- C. On sloping areas where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with staggered joints. Secure the sod by tamping and pegging or other approved methods.
- D. As sodding is completed in any one section, the entire area shall be rolled or tamped to insure solid contact of roots with the soil surface. Sod shall be watered immediately after rolling or tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. The operations of laying, tamping and irrigating for any piece of sod shall be completed within eight hours.

III. Sod Maintenance

- A. In the absence of adequate rainfall, watering shall be performed daily or as often as necessary during the first week and in sufficient quantities to maintain moist soil to a depth of 4 inches. Watering should be done during the heat of the day to prevent wilting.
- B. After the first week, sod shall be watered as necessary to maintain adequate moisture and insure establishment.
- C. First mowing should not be attempted until sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified.
- D. Maintenance of established sod should follow specifications outlined in table 54-1.

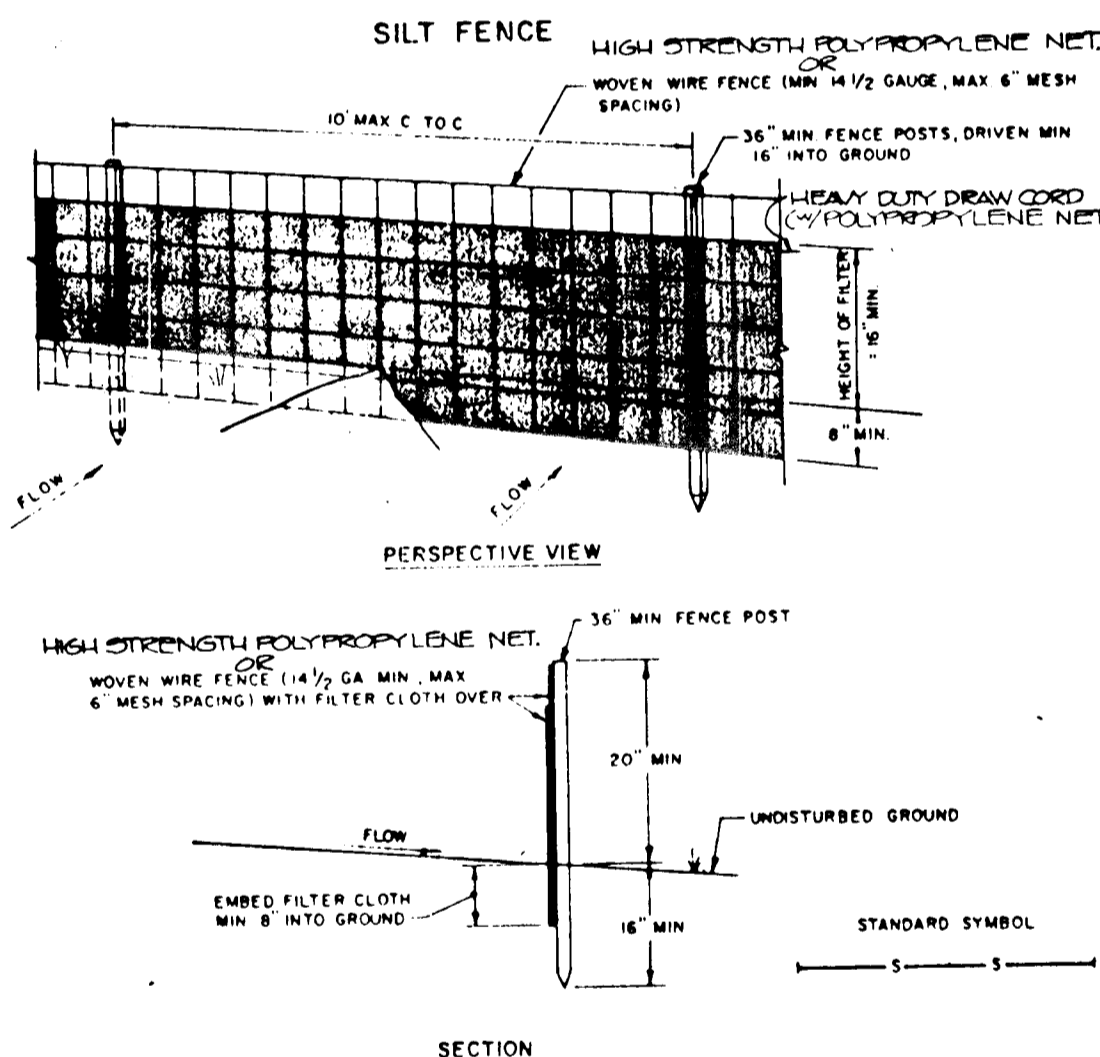
GENERAL NOTES

- 1) Refer to "1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for standard details and detailed specifications of each practice specified herein.
 - 2) With the approval of the sediment control inspector, minor field adjustments can and will be made to insure the control of any sediment. Changes in sediment control practices require prior approval of the sediment control inspector and the County Soil Conservation District.
 - 3) At the end of each working day, all sediment control practices will be inspected and left in operational condition.
 - 4) Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) seven calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to 1 vertical (3:1) and 14 calendar days as to all other disturbed or graded areas on the project site.
 - 5) Any change to the grading proposed on this plan requires re-submission to County Soil Conservation District for approval.
 - 6) Dust control will be provided for all disturbed areas. Refer to 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, pp 4201 and 42.02 for acceptable methods and specifications for dust control.
 - 7) Any variation from the sequence of operations stated on this plan requires the approval of the sediment control inspector and the County Soil Conservation District prior to the initiation of the change.
 - 8) Excess cut or borrow material shall go to or come from, respectively, a site with an approved sediment control plan.
- The following item may be used as applicable:
- 9) Refer to "Maryland's Guidelines to Waterway Construction" by the Water Resources Administration (WRA), dated January, 1986 for standard details and detailed specifications of each practice specified herein for waterway construction.

SEDIMENT CONTROL NOTES

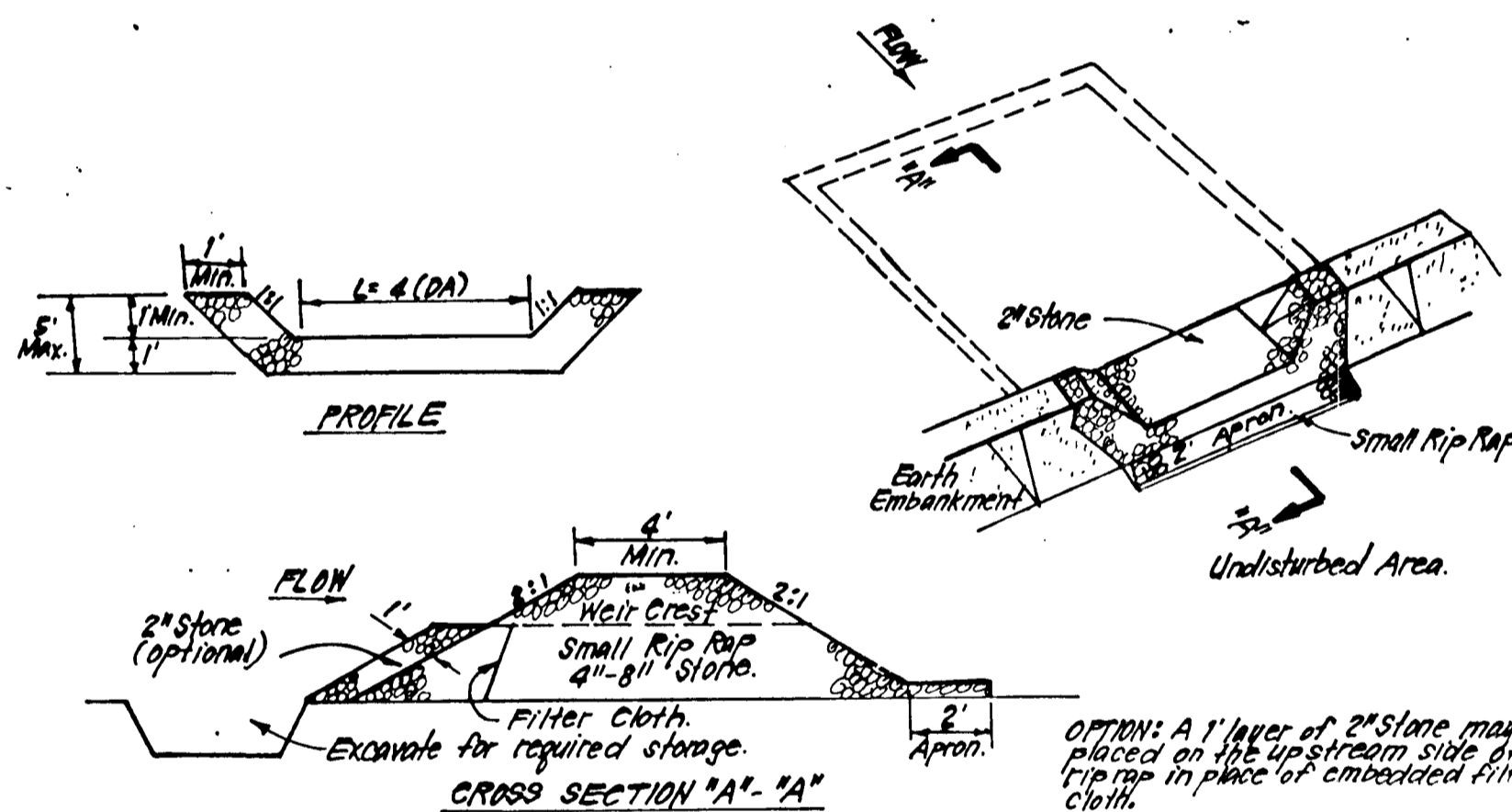
- 1) A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) Following initial soil disturbance or redistribution, 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 as to 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) sod (Sec. 54), temporary seeding (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	116.16 Acres
Area Disturbed	16.2 Acres
Area to be roofed or paved	2.2 Acres
Area to be vegetatively stabilized	13.2 Acres
Total Cut	42,600 Cu. yds
Total Fill	42,000 Cu. yds
Offsite waste/borrow area location	
- 8) Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 9) Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
- 10) On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. HIGH STRENGTH POLYPROPYLENE NETTINGS OR WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIE 3/4" STAPLES.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE 3/4" x 3/4" MIN. (ACTUAL HARDWOOD)
- FENCE: WOVEN WIRE, 1/2 GA. 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X, 100% 100% STABIL-LINKA TYPED OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOTEX, ENVIROFENCE, OR APPROVED EQUAL



CONSTRUCTION SPECIFICATIONS:

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The root area shall be cleared.
2. The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by tamping with adequate weight. It is to be constructed.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small rip-rap 4"-8" along with 1" thickness of 2" aggregate placed on the up-grade side on the small rip-rap or embedded filter cloth in the rip-rap.
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 (S.O.S.T.) ST.V. NO SCALE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

John M. Nelson 9-29-87
U.S. SOIL CONSERVATION SERVICE DATE

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

John A. Polton 9/29/87
DISTRICT SOIL CONSERVATION DISTRICT DATE

APPROVED: Howard County Office of Planning & Zoning

John M. Nelson 10-1-87
Chief, Division of Land Development & Zoning Administration

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

John A. Polton 10/1/87
Chief, Land Development Division

Chief, Bureau of Highways

John A. Polton 10-5-87
Chief, Bureau of Engineering

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

John A. Polton 9-23-87
DEVELOPER/BUILDER DATE

ENGINEER'S CERTIFICATE

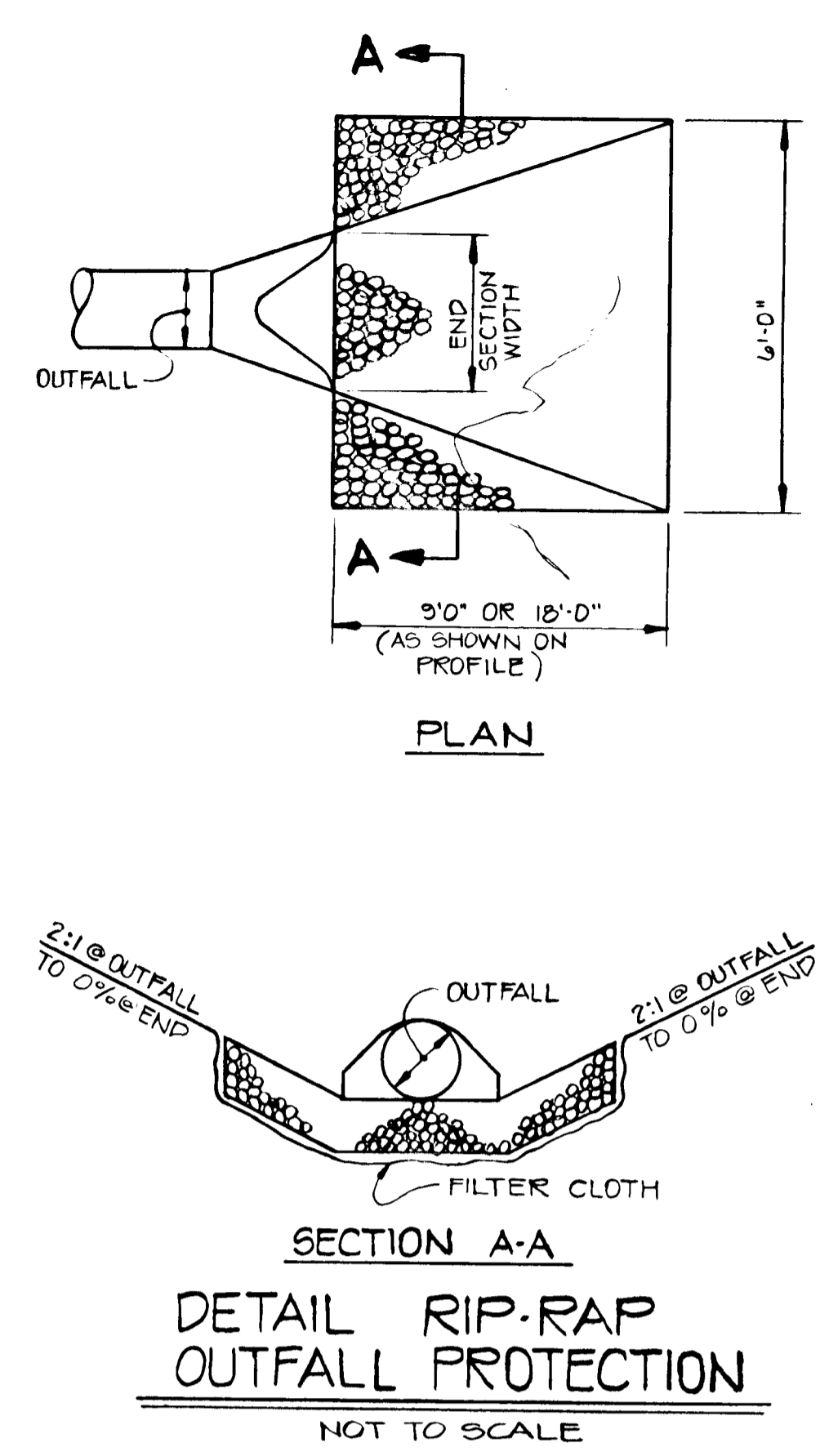
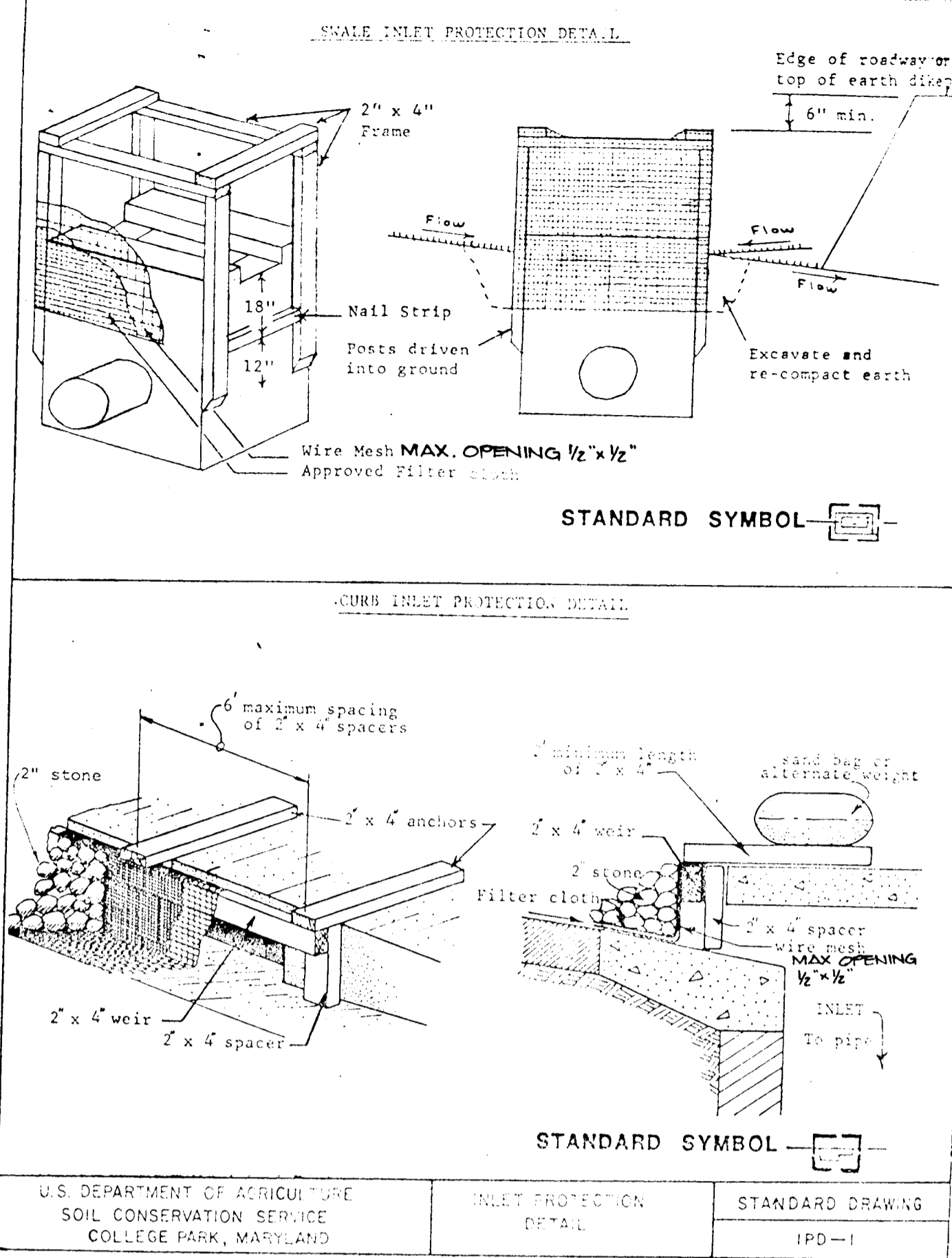
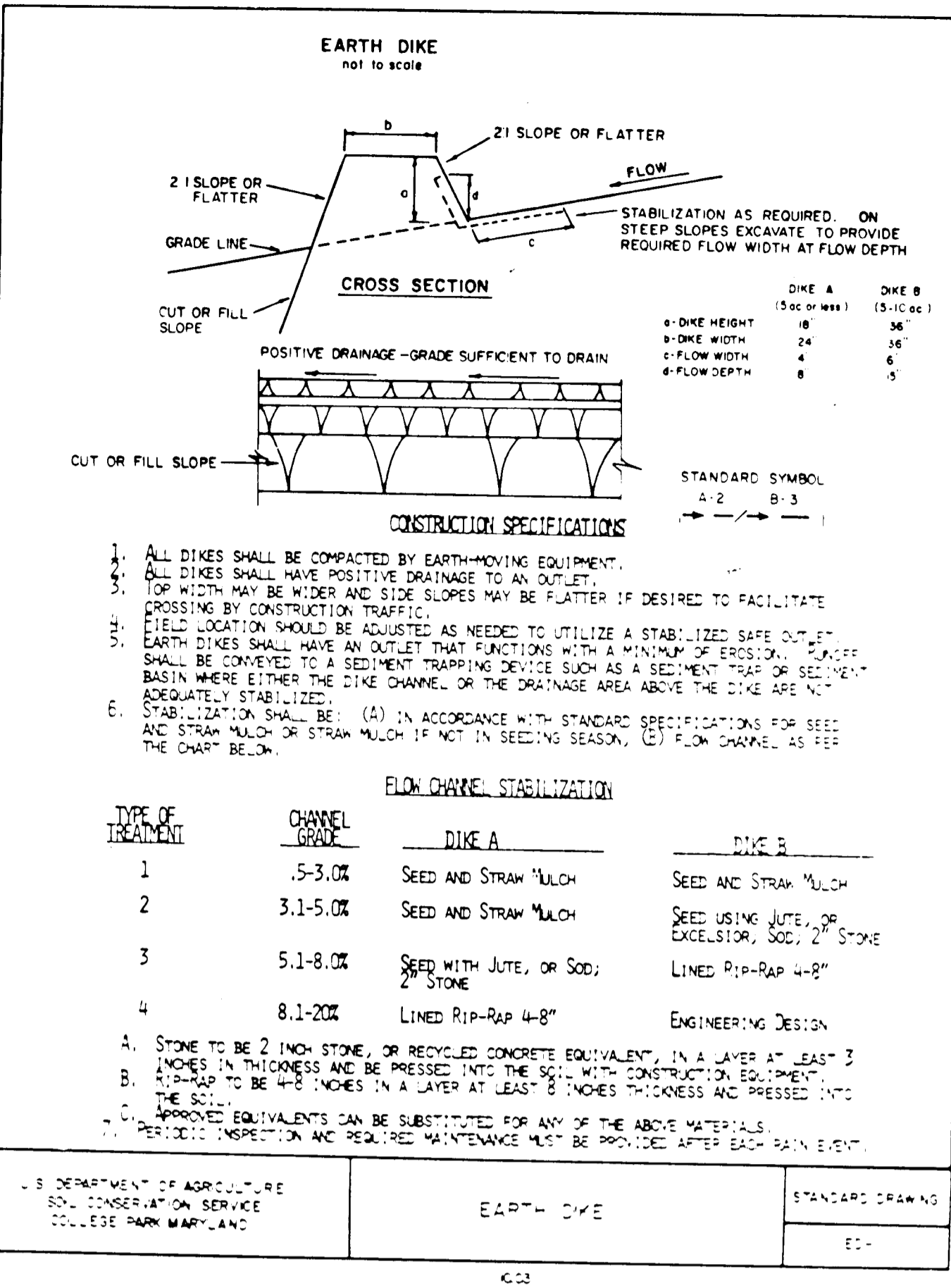
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Mike Sedghi 9-23-87
MIKE SEDGHI, P.E. 13816 DATE

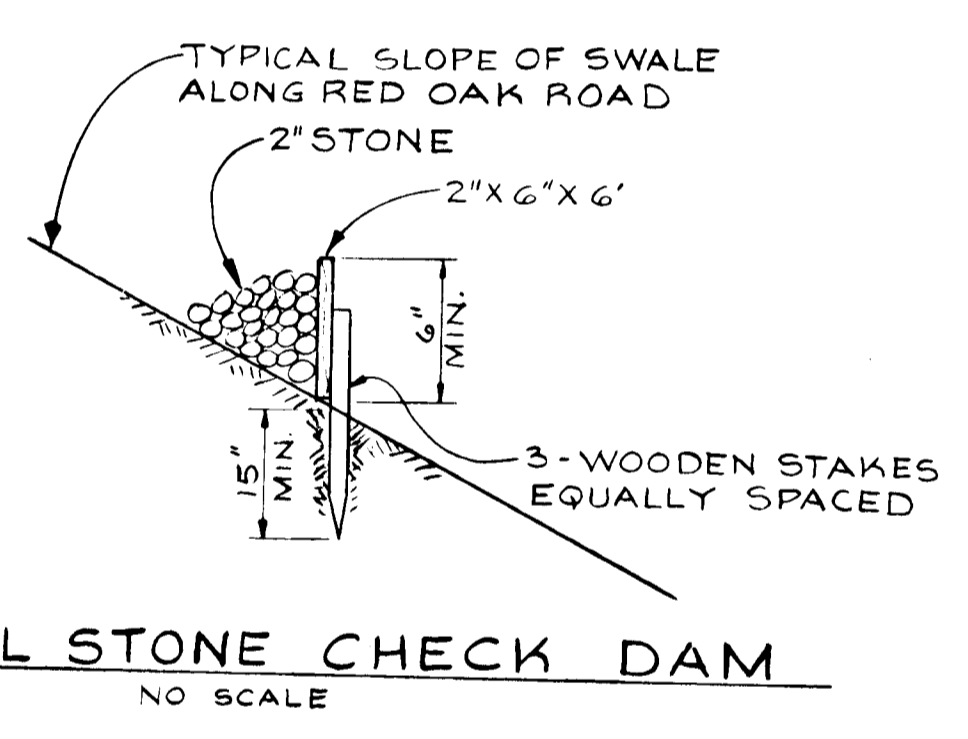
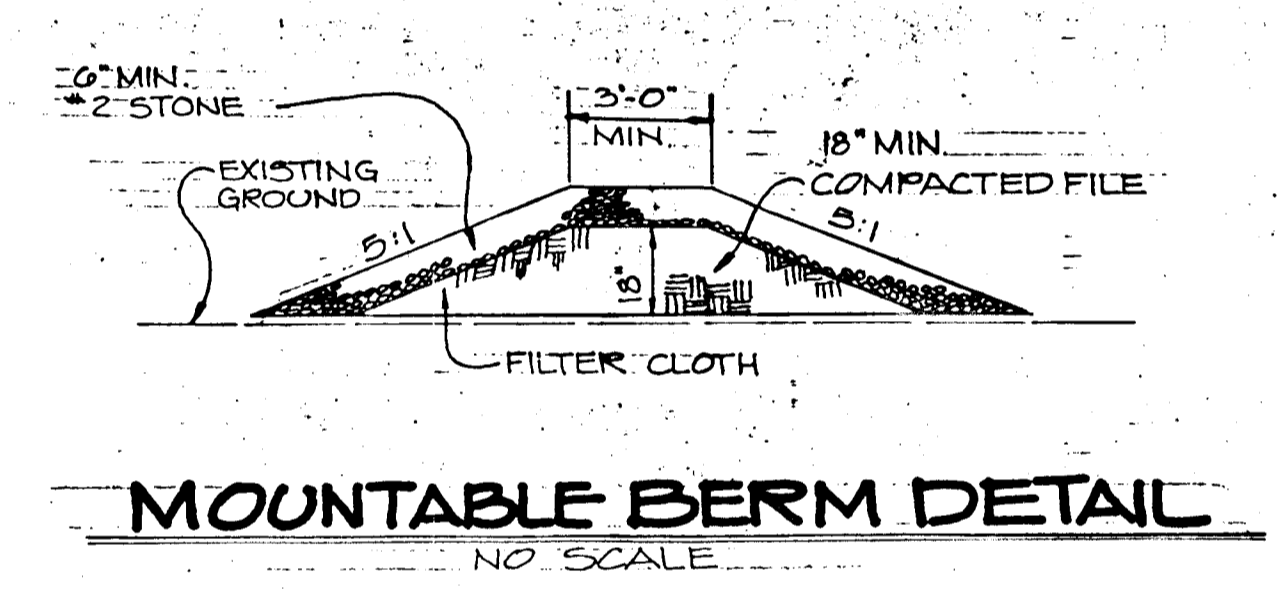
D.S. THALER & ASSOCIATES, INC.
11 WARREN ROAD BALTIMORE, MARYLAND 21208

(301) 484-4100	
DESIGNED TLB	SCALE 1"=100'
DRAWN JLC	DRAWING 20 of 21
CHECKED MS	JOB NO. 0635
DATE 7-16-87	FILE NO.
TAX MAP 10	PARCEL 139
3RD ELECT. DISTRICT	HOWARD COUNTY, MD

F-87201



- SEQUENCE OF OPERATIONS**
1. Obtain grading permit.
 2. Clear and grub for the construction of the stabilized construction entrance.
 3. Construct stabilized construction entrance.
 4. Clear and grub for the remaining sediment control measures.
 5. Construct the remaining sediment control measures.
 6. Begin grading of roads.
 7. After roads have been graded to subgrade, the installation of the proposed storm drains can begin.
 8. During the grading of the roads and installation of storm drains, the Contractor shall inspect and provide necessary maintenance on the sediment control measures shown hereon. The Contractor also shall remove all accumulated sediment from all the stone outlet sediment traps whenever the cleanout elevation has been reached. The Contractor shall also stabilize the disturbed areas as specified in Item 9.
 9. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be acceptable within:
 - a) Seven (7) calendar days for all perimeter sediment control structures, dikes, swales, ditch perimeter swales and all slopes greater than 3 (H) to 1 (V).
 - b) 14 days for all other disturbed or graded areas on the project site.
 10. All excess cut shall be taken to a spoil site with an approved sediment erosion control plan.
 11. After grading, storm drain installation and stabilization, the Contractor can begin removing sediment control measures and commence with paving of the roads.
 12. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT AND EROSION CONTROL DEVICES. FINE GRADE TRAP AREAS AND STABILIZE THOSE AREAS THAT FUNCTIONED AS TEMPORARY SEDIMENT CONTROL DEVICES. STABILIZE ANY AREAS DISTURBED BY THIS PROCESS.



NOTE:
FOR SPACING BETWEEN CHECK DAMS ALONG ROAD SWALES, SEE PLAN VIEW FOR LOCATIONS.

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
James M. Blum 9-29-87
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Robinson 9/29/87
DISTRICT DATE
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: Howard County Office of Planning & Zoning.
John W. ... 10-1-87
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
... 10-5-87
DATE

1318

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Carlyn Allen 9-23-87
DEVELOPER/BUILDER DATE

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

Mike Sedghi 9-23-87
DATE

D.S. THALER & ASSOCIATES, INC.
11 WARREN ROAD BALTIMORE, MARYLAND 21208
(301) 484-4100

DESIGNED TLB	SEDIMENT + EROSION CONTROL DETAILS	SCALE 1"=100"
DRAWN JLC		DRAWING 21 OF 21
CHECKED MS	MEADOWOOD SECTION ONE	JOB NO. 0635
DATE 7-16-87		FILE NO.
TAX MAP 10	PARCEL 133	
3RD ELECT DISTRICT HOWARD COUNTY, MD.		