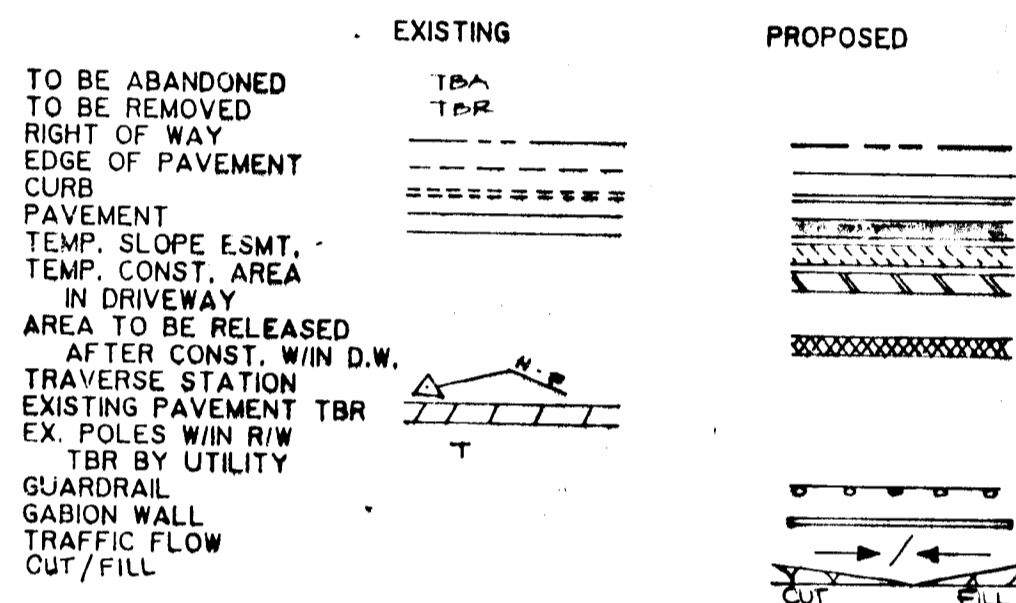
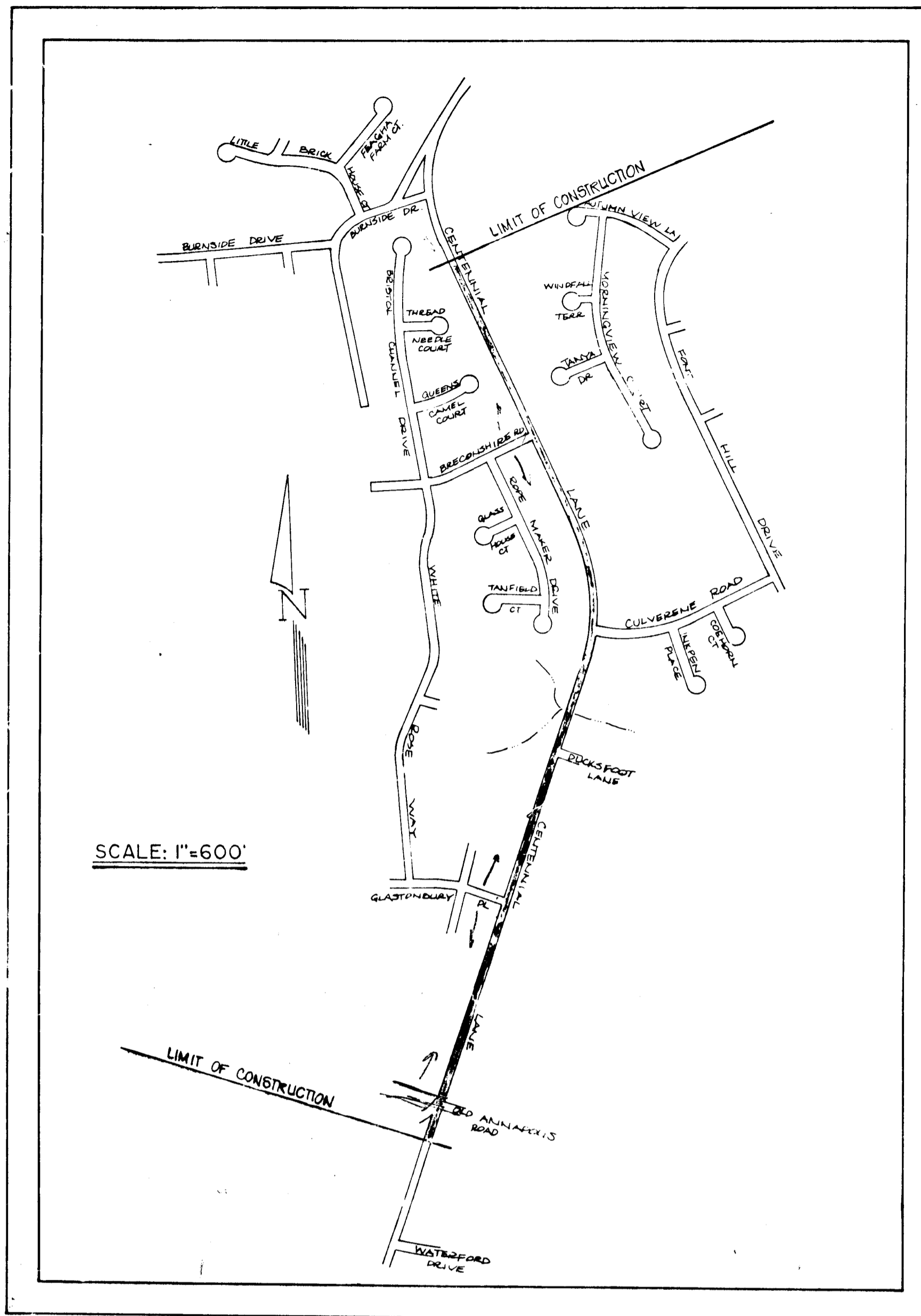
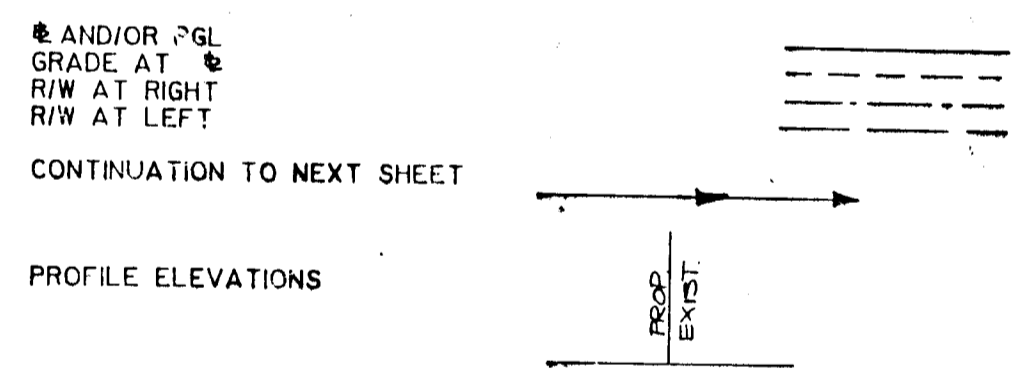


SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN & PROFILE
3	PLAN & PROFILE
4	PLAN & PROFILE
5	PLAN & PROFILE
6	PLAN & PROFILE
7	TYPICAL SECTIONS FOR INTERSECTING ROADS
8	HORIZONTAL & VERTICAL CONTROLS
9	SUPERELEVATION
10	INTERSECTING STREETS PROFILES
11	GABION WALL PROFILES & DETAILS
12	DRAINAGE AREA MAP
13	STORM DRAIN PROFILES
14	STORM DRAIN PROFILES
15	STORM DRAIN PROFILES
16	MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL NOTES AND DETAILS
17	MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL PHASE I
18	MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL PHASE I
19	MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL PHASE I
20	MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL PHASE II
21	MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL PHASE II
22	MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL PHASE II
23 - 27	LANDSCAPE PLANS

PLAN LEGEND



PROFILE LEGEND



GENERAL NOTES

1. CONTRACTOR TO PROVIDE STAKE-OUT GRADE OF PROPOSED CURBS, PROPERTY LINES, STORM DRAINS & OTHER APPURTENANCES WHERE EVER NECESSARY TO FACILITATE THE RELOCATION OF EXISTING B.G. & C&P UTILITIES.

2. ALL REFERENCES TO "SIDEWALK" SHALL BE CONSIDERED TO BE "PATHWAY".

CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS

- Properly maintain the structure or fill; Adhere to time-of-year restrictions as required by the Maryland Department of the Environment under COMAR 26.08.01. To protect important aquatic species, in-stream work is prohibited as determined by the classification of the stream as follows:
 Class I Waters. In-stream work may not be conducted during the period March 1 through June 15, inclusive, during any year.
- Remove excess fill or construction material or debris to a upland disposal area, outside of the buffer. Any temporary excavation or filling within the nontidal wetland shall be restored to the elevation existing prior to construction;
- If backfill is obtained from sources other than the originally excavated material, use clean material free of waste metal products, unsightly debris, toxic material, or any other deleterious substance;
- Heavy equipment shall conduct work from the road embankment or from upland areas where possible. If equipment must be placed in wetland areas not authorized for permanent disturbance, place heavy equipment on mats or suitably design the equipment to prevent damage to the nontidal wetlands;
- Rectify any nontidal wetlands temporarily impacted by the proposed activity. Vegetative re-stabilization within the nontidal wetlands must be conducted with annual grasses such as rye and millet to allow re-establishment of natural wetland species. Temporarily disturbed areas shall be restored and planted no later than 7 days after construction in those areas is completed. Should construction be interrupted or delayed for more than 14 days, temporary measures shall be provided to prevent soil erosion during that period; and
- All disturbed steep wetland buffers must be stabilized with a stabilization matting of mulch and tack (crimping in, cellulose, or asphalt spray) or equivalent management procedure after construction, to prevent excess sedimentation.

CAPITAL PROJECT No. J-4015-III
CENTENNIAL LANE
 ROAD IMPROVEMENTS
 OLD ANNAPOLIS ROAD TO BURNSIDE DRIVE
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

THE FOLLOWING PERMITS APPLY TO THIS PROJECT:
 WCF No. 92-WC-0236
 P&C No. 139103 045

C0075201

APPROVED: [Signature]
 SCD [Signature]
 SCS [Signature]
 DATE: 9/1/93

THESE PLANS HAVE BEEN REVIEWED FOR THE FEDERAL SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SWAMP AND WETLANDS CONSTRUCTION. STATE OF MARYLAND DEPARTMENT OF PUBLIC WORKS, HOWARD COUNTY, MARYLAND.

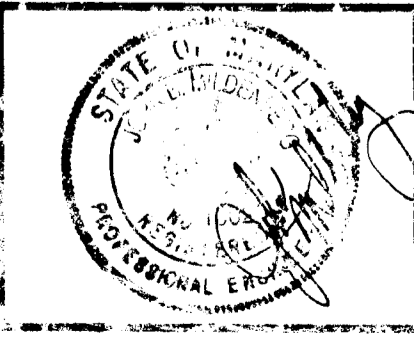
[Signature]
 U.S. SOIL CONSERVATION SERVICE
 DATE: 12/19/91

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signatures and Dates]
 DATE: 12/19/91
 DATE: 12/19/91
 DATE: 12/19/91

MILDBERG, HOCHI & ASSOCIATES, INC.
 ENGINEERS • ARCHITECTS • PLANNERS

3300 North Rock Road, Suite 235, Ellicott City, Maryland 21037-3350
 (301) 481-0078 D.C. Metro No. (301) 671-5167



DES.	JBM/KAM	DATE	REVISION
CHKD <td>STAFF</td> <td>1/1/93</td> <td>1</td>	STAFF	1/1/93	1
CHKD <td>STAFF</td> <td>2/1/93</td> <td>2</td>	STAFF	2/1/93	2
CHKD <td>STAFF</td> <td>3/1/93</td> <td>3</td>	STAFF	3/1/93	3

DATE: 10/1/93

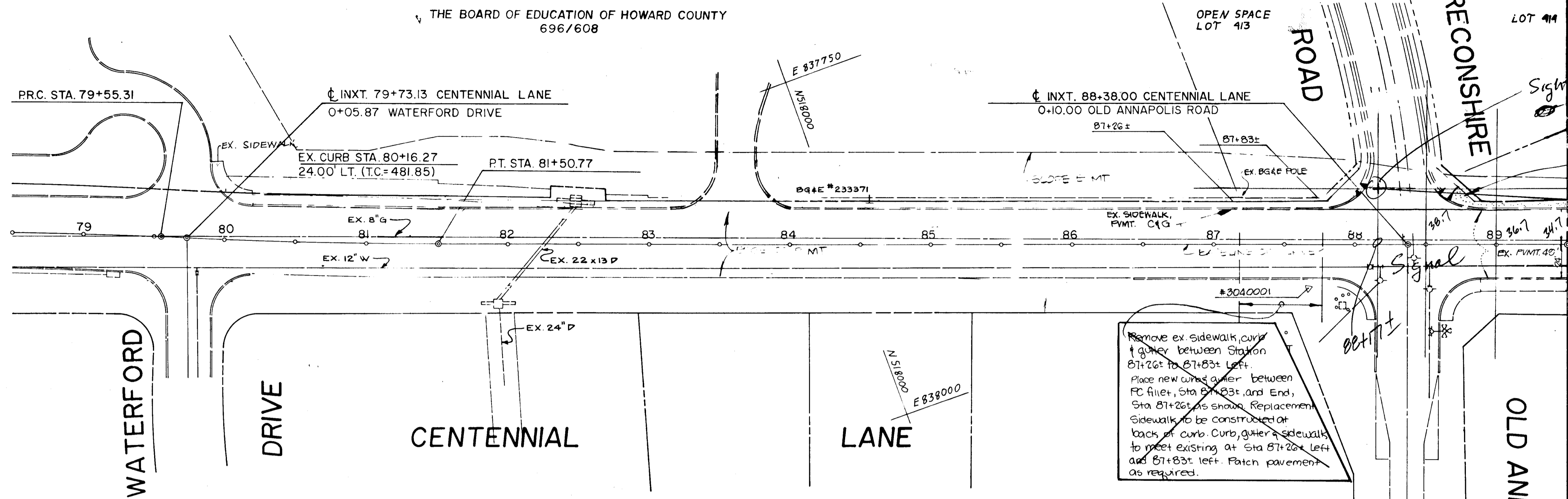
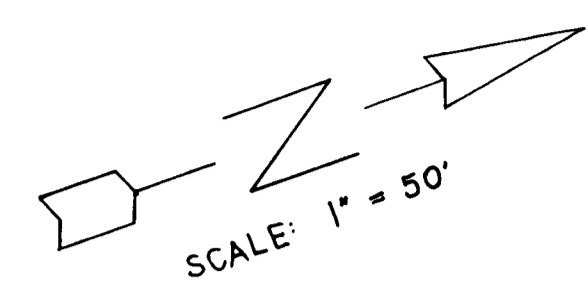
BY: [Signature]

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 1.6+00
 CAPITAL PROJECT J-4015-III
 ELECTION DISTRICT No. 2
 HOWARD COUNTY, MARYLAND

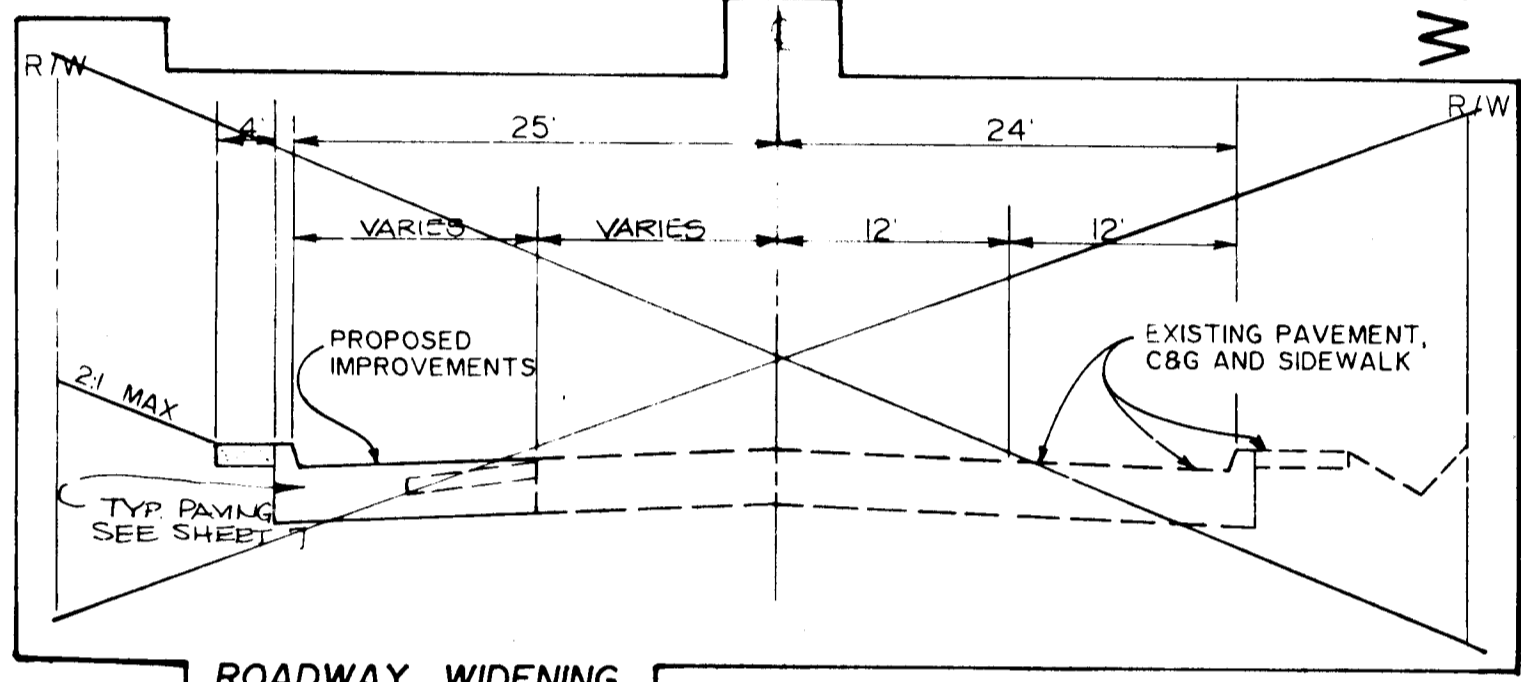
TITLE SHEET

THE BOARD OF EDUCATION OF HOWARD COUNTY
696/608

BURLEIGH SECTION 3
MANOR AREA 3

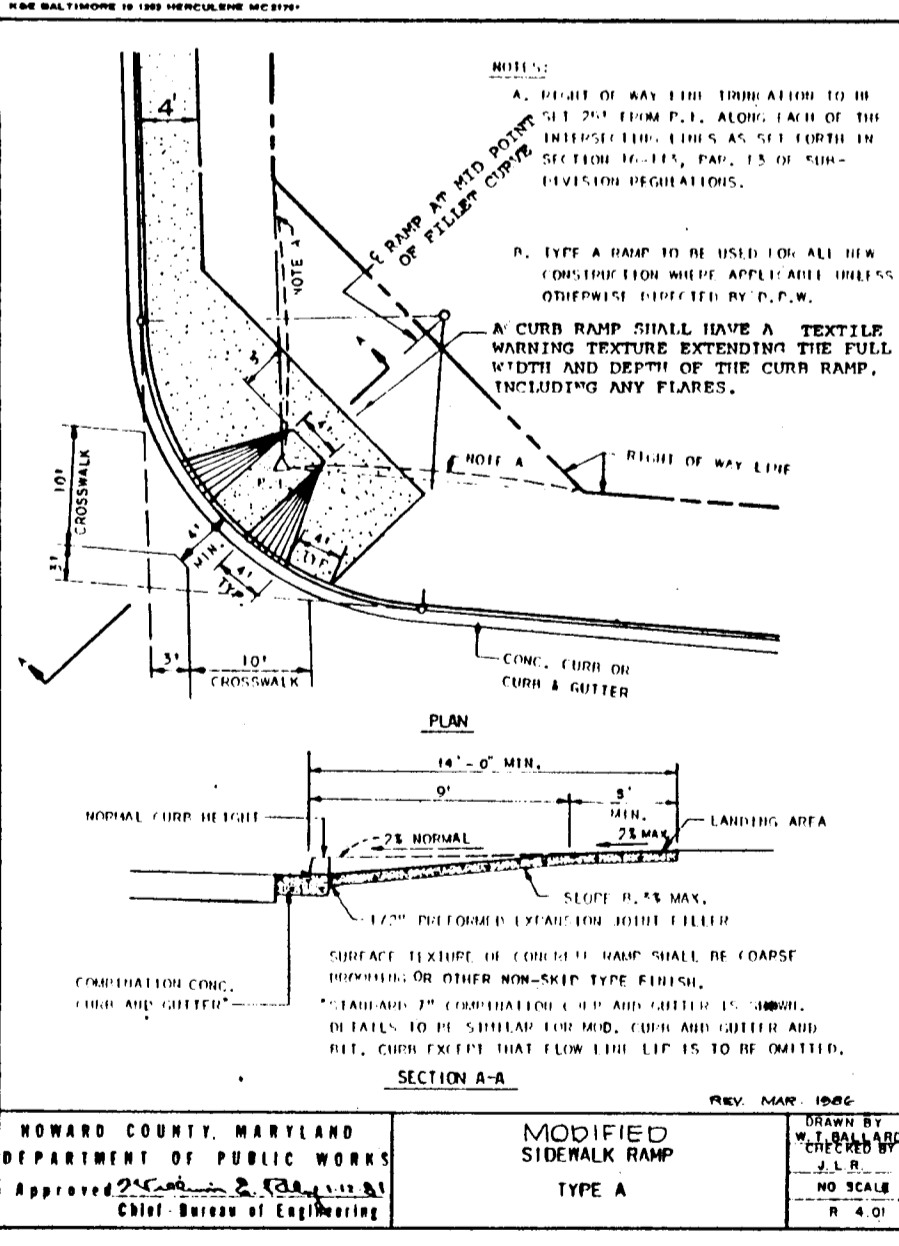
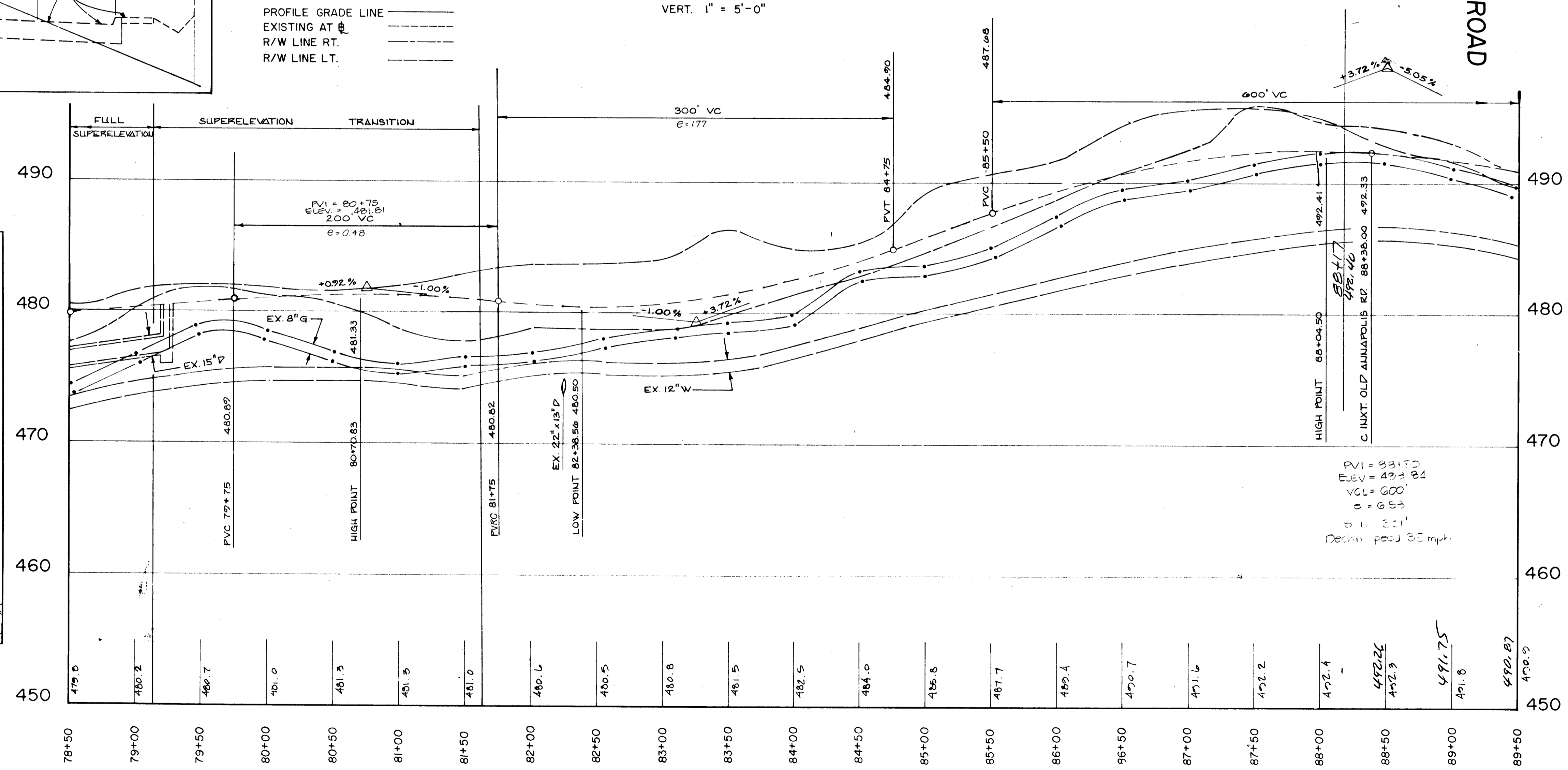


Sight Line for right turn on red
Sight Distance for 40 mph is 510'



PROFILE LEGEND
 PROFILE GRADE LINE
 EXISTING AT
 R/W LINE RT.
 R/W LINE LT.

SCALE: HORIZ. 1" = 50'-0"
 VERT. 1" = 5'-0"



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director: James P. ...
 Chief, Bureau of Engineering: ...
 Chief, Bureau of Highways: ...

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0078 D.C. Metro: (301) 621-5768

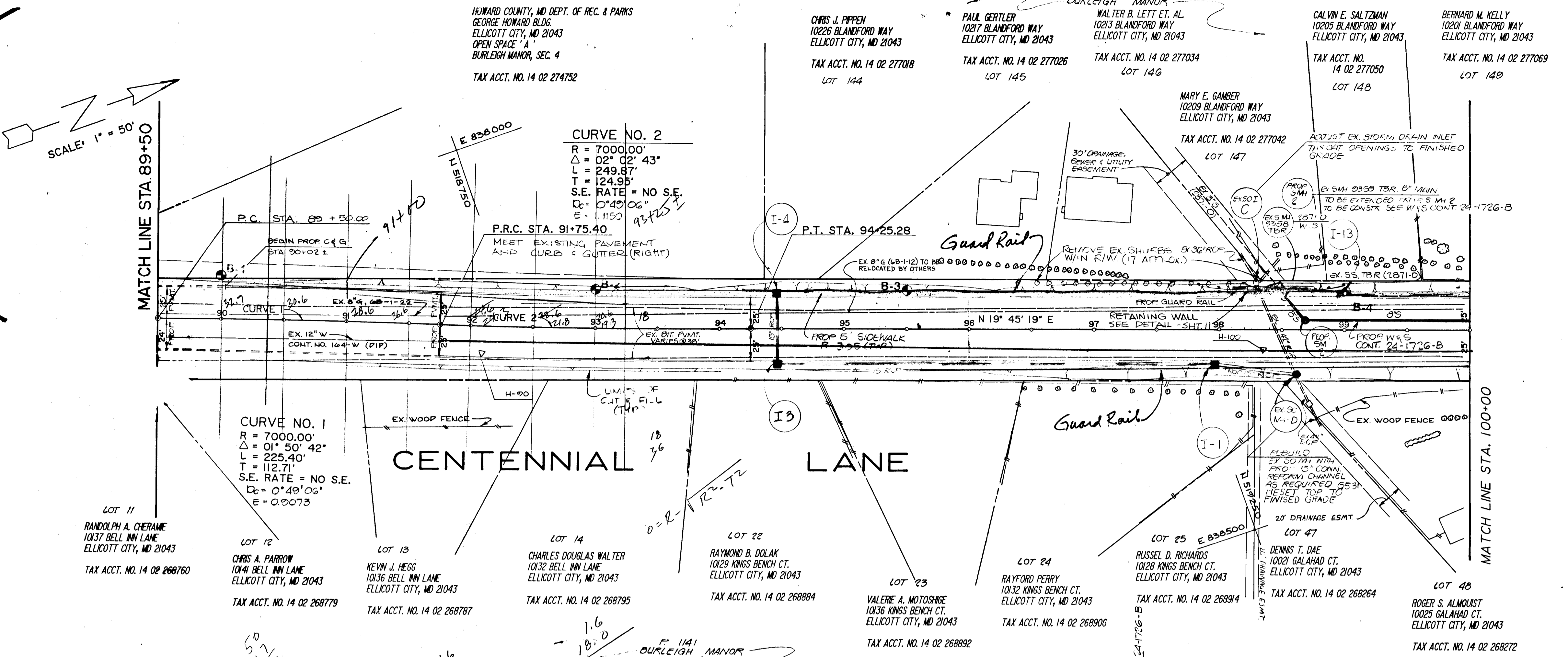
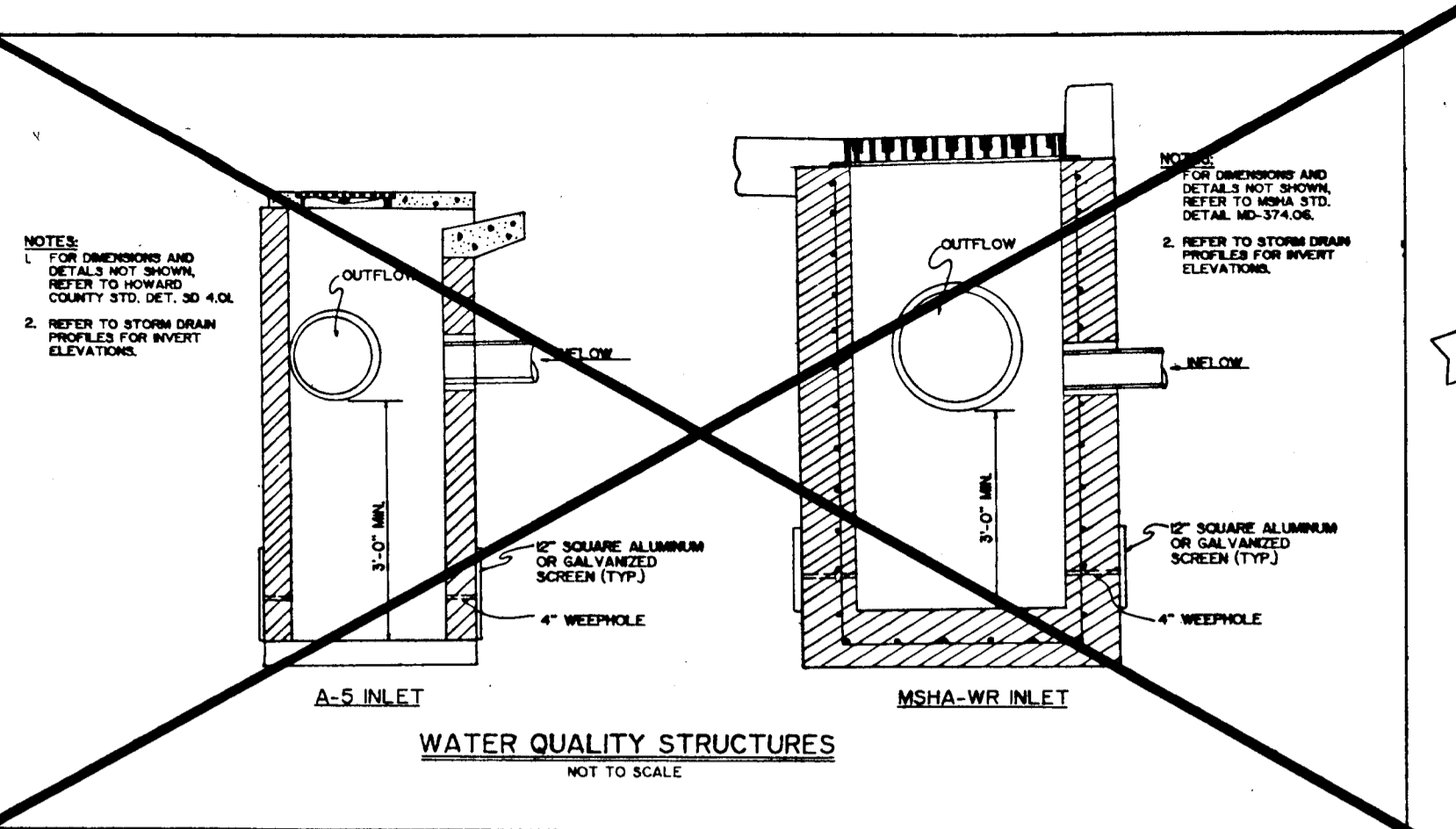


DES: STAFF	
DRN: KAM	
CHK: JBM	
DATE: 10/3	
BY: NO.	
REVISION	
DATE: 6/0	

PLAN & PROFILE
 STA. 78+50 TO STA. 89+50
 CENTENNIAL LANE

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015- III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

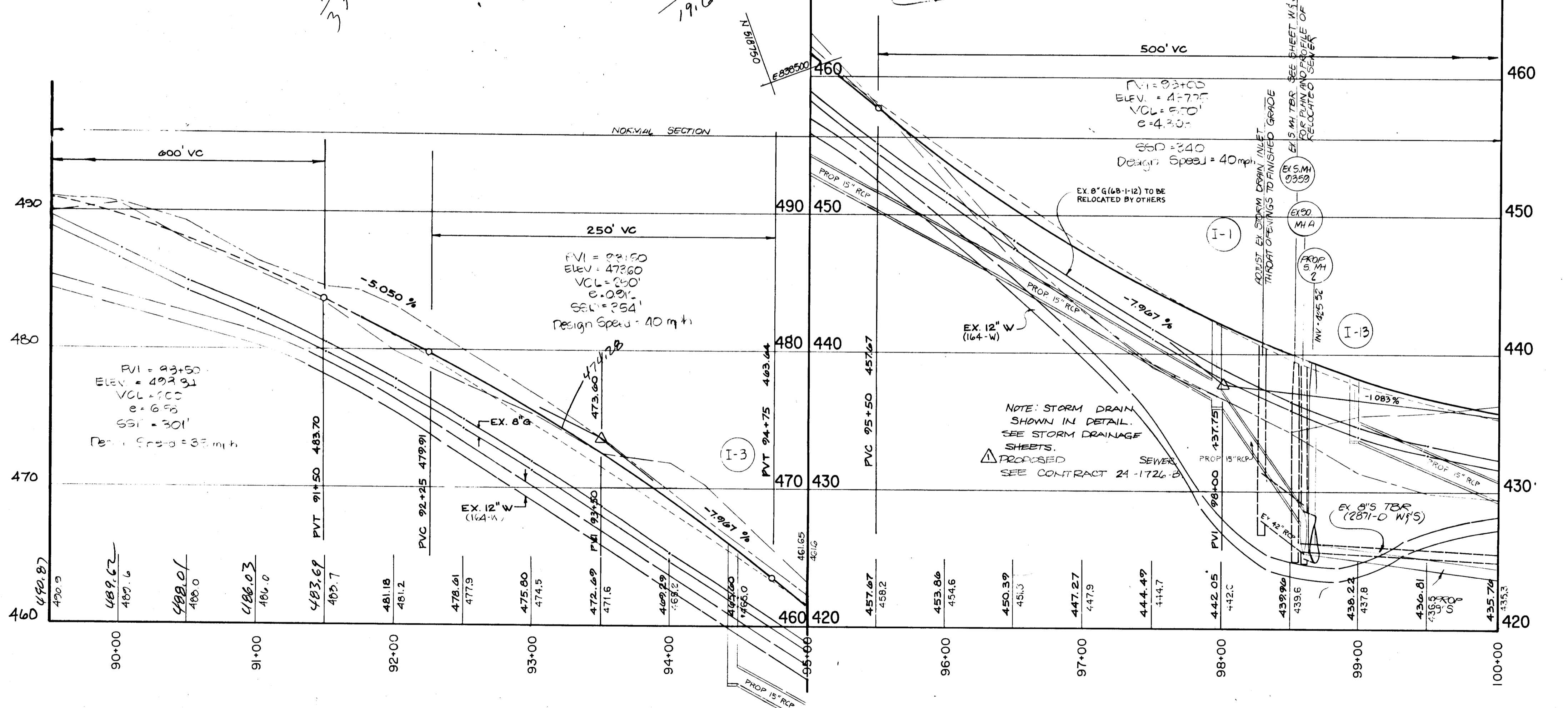
SCALE AS SHOWN
 SHEET 2 OF 27



PROFILE LEGEND

PROFILE GRADE LINE _____
 EXISTING AT RT. _____
 R/W LINE RT. _____
 R/W LINE LT. _____

SCALE: HORIZ. 1" = 50'-0"
 VERT. 1" = 5'-0"



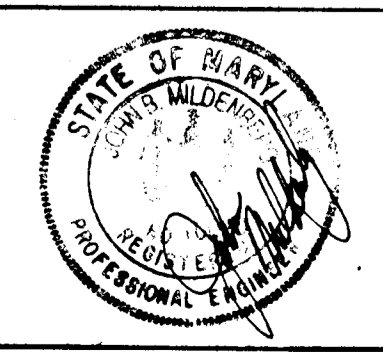
BRUNING 44-13269150, C. A. Submitted for Review 1/20/18, C. A. Submitted for Review 1/20/18

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works: *James J. Lee* 12/1/19
 Chief, Bureau of Engineering: *William E. Rely* 12-2-19
 Chief, Bureau of Highways: *William W. Williams* 12/1/19

MILDENBERG MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS

3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0078 D.C. Metro: (301) 621-5768



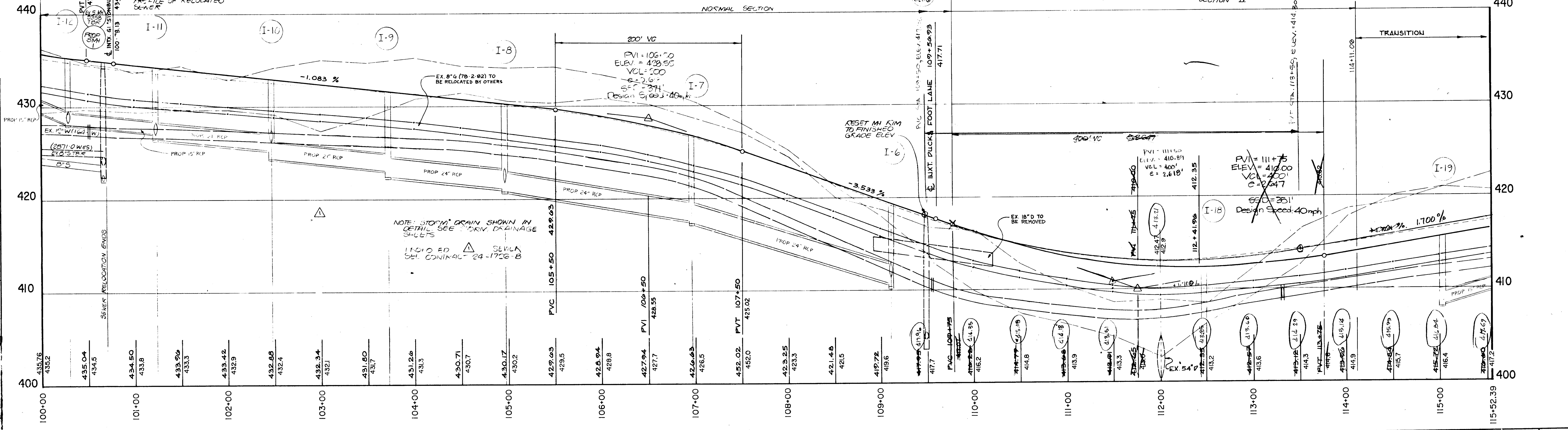
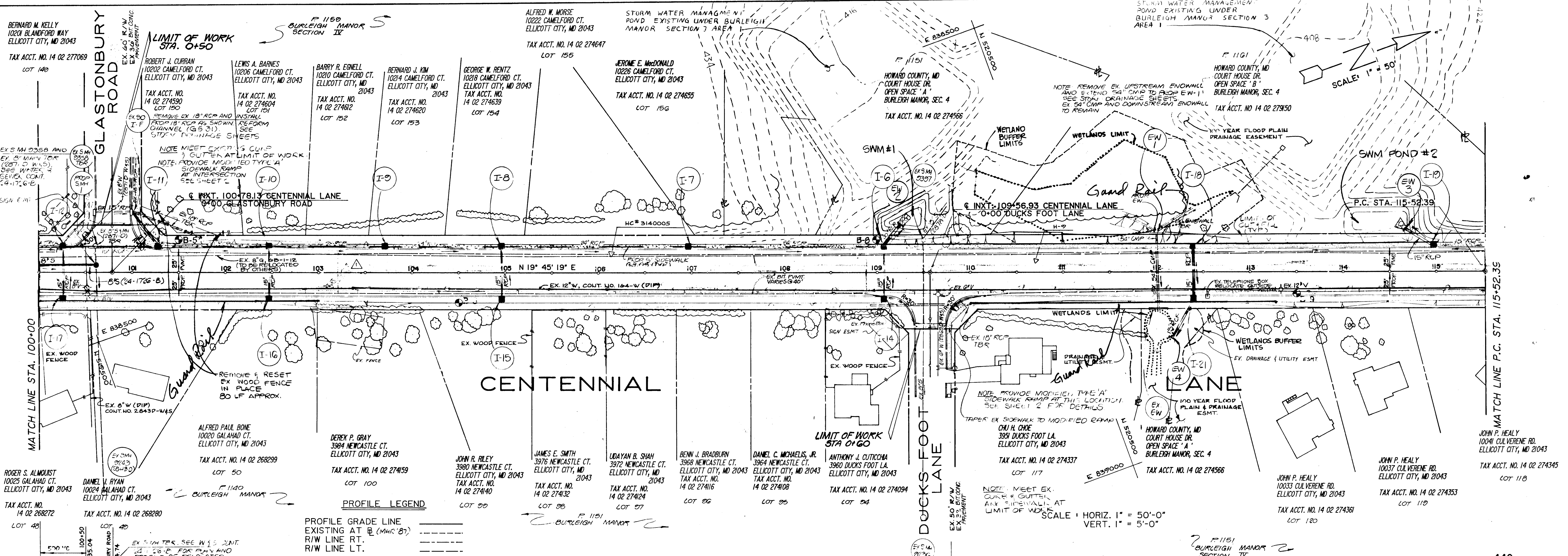
DES: 5THFF	KAM	1	Eliminate watermain relocation this project.	JAN 02
DRN: KAM				
CHK: JEM				
DATE: 10/01	BY	NO.	REVISION	DATE

PLAN & PROFILE
 STA. 89+50 TO STA. 100+00
 CENTENNIAL LANE

600' SCALE MAP NO. 22 BLOCK NO.

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015-III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 3 OF 27



PROFILE LEGEND

—	PROFILE GRADE LINE
- - -	EXISTING AT B (MHC '87)
—	R/W LINE RT.
—	R/W LINE LT.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Samuel... 12-1-91
DIRECTOR OF PUBLIC WORKS DATE

... 12-7-91
CHIEF, BUREAU OF ENGINEERING DATE

... 12/14/91
CHIEF, ROADS, BRIDGES AND STORM DRAINAGE DATE

... 12/14/91
CHIEF, BUREAU OF HIGHWAYS DATE

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(301) 461-0078 D.C. Metro: (301) 621-5786

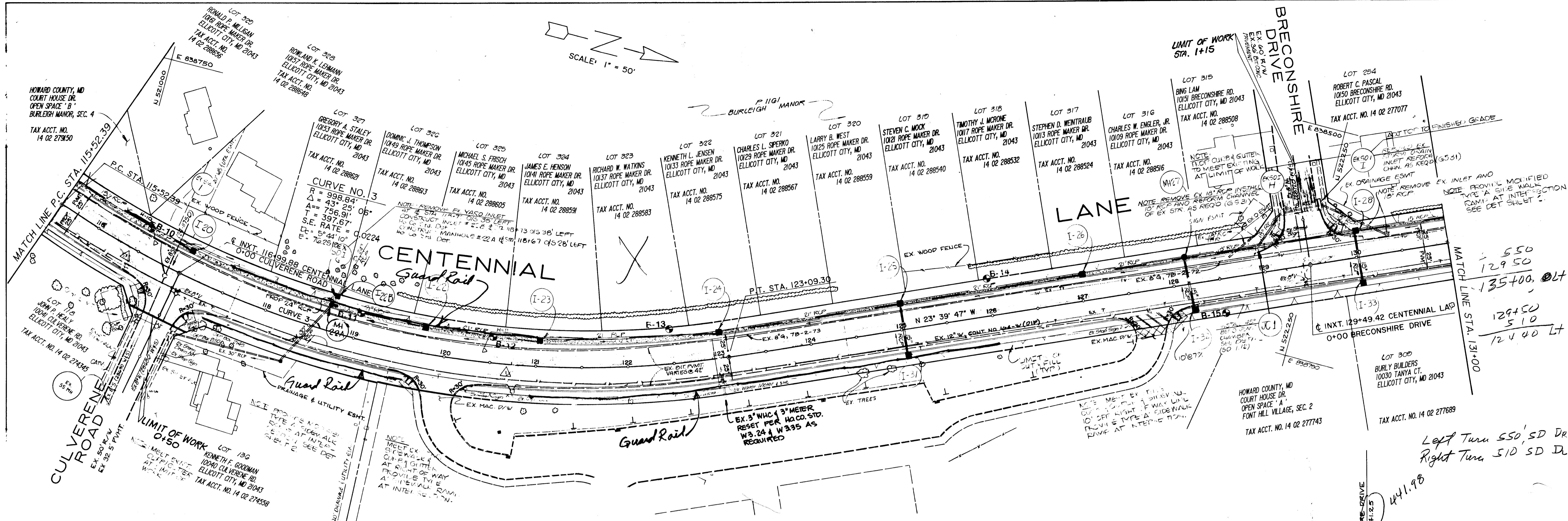
DES: STAFF	KAM	1	Eliminate watermain Relocation this Project	JAN 92
DRN:	KAM			
CHK:	JBM			
DATE:	10/01			
BY:	NO.		REVISION	DATE

PLAN & PROFILE
STA. 100+00 TO STA. 115+52.39
CENTENNIAL LANE

600' SCALE MAP NO. 24 BLOCK NO.

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA. 136+00
CAPITAL PROJECT J-4015-III
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4 OF 27

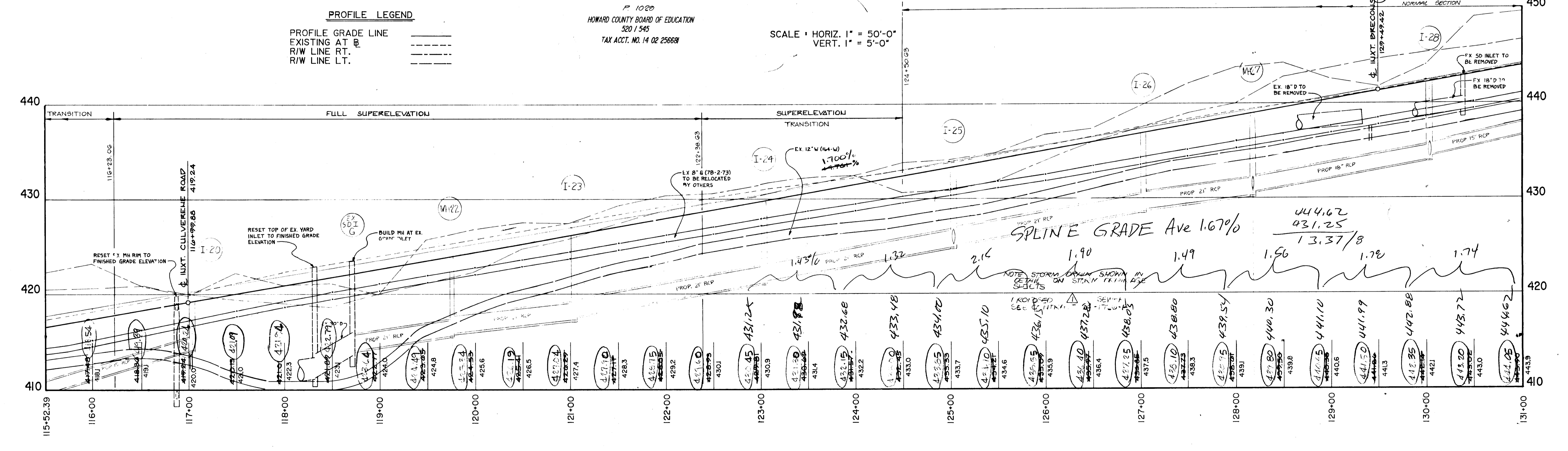


PROFILE LEGEND

PROFILE GRADE LINE
 EXISTING AT @
 R/W LINE RT.
 R/W LINE LT.

P 1020
 HOWARD COUNTY BOARD OF EDUCATION
 520 I 545
 TAX ACCT. NO. 14 02 256681

SCALE: HORIZ. 1" = 50'-0"
 VERT. 1" = 5'-0"



Left Turn 550' SD DR
 Right Turn 510' SD DR

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

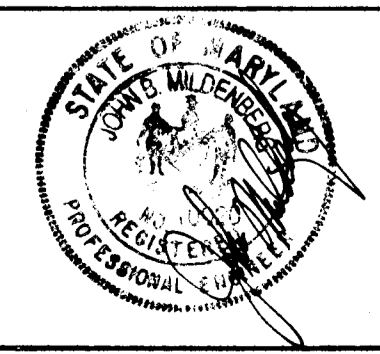
James J. [Signature] 2-4-91
 DIRECTOR OF PUBLIC WORKS DATE

Charles B. [Signature] 12-7-90
 CHIEF, BUREAU OF ENGINEERING DATE

Charles B. [Signature] 12-7-90
 CHIEF, BUREAU OF HIGHWAYS DATE

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS

3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0078 D.C. Metro: (301) 621-5768



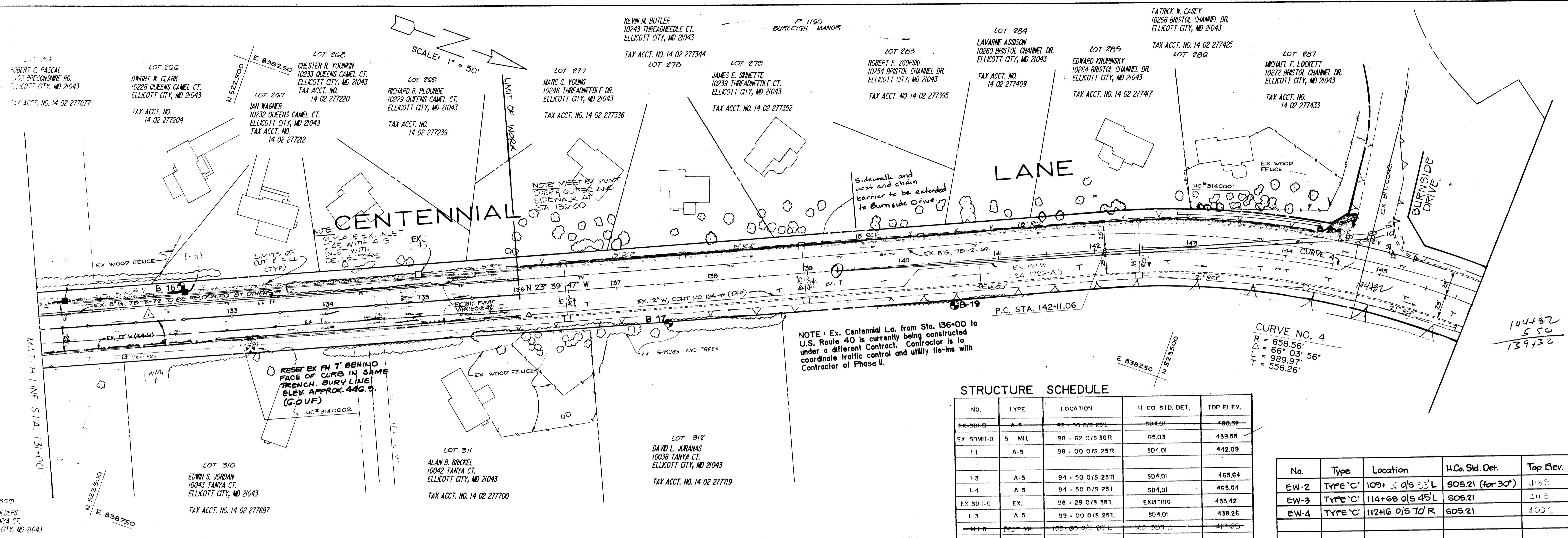
DES: STAFF	KAM	1	Eliminate watermain Relocation	JAN 92
DRN:	KAM			
CHK:	JEM			
DATE:	10/91			
BY:	NO.		REVISION	DATE

PLAN & PROFILE
 STA: 115+52.39 TO STA. 131+00
 CENTENNIAL LANE

600' SCALE MAP NO. 24 BLOCK NO.

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015-III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 5 OF 27



NOTE: Ex. Centennial La. from Sta. 136+00 to U.S. Route 40 is currently being constructed under a different Contract. Contractor is to coordinate traffic control and utility tie-ins with Contractor of Phase II.

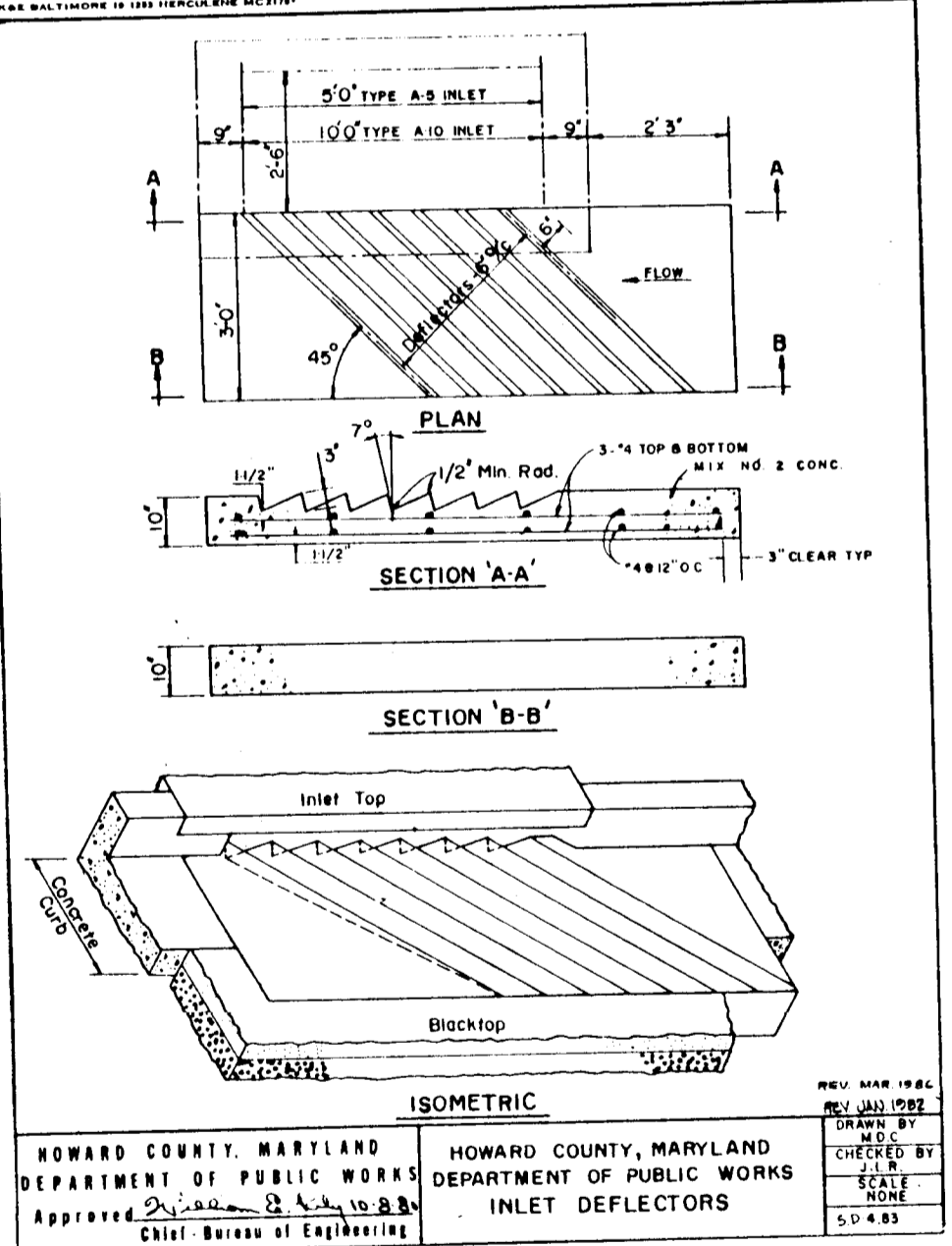
CURVE NO. 4
 R = 858.56'
 Δ = 66° 03' 56"
 L = 989.97'
 T = 558.26'

144.82
 5.50
 139.32

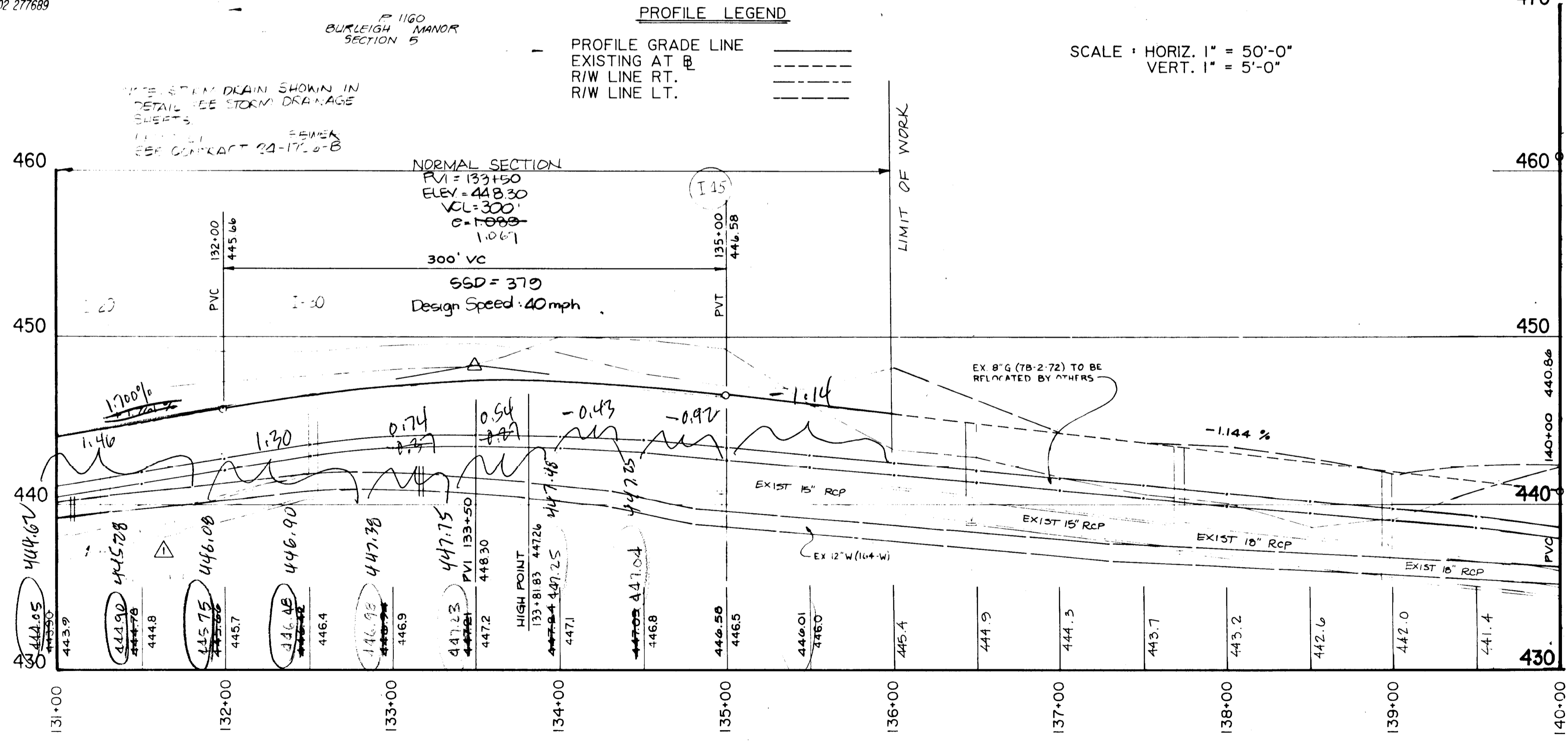
STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	II CO. STD. DET.	TOP ELEV.
EX-26-B	A-5	82+30.0/5 25L	SD4.01	406.52
EX-SDM1-D	5' MFL	98+62.0/5 36R	GS.03	439.55
I-1	A-5	98+00.0/5 25R	SD4.01	442.09
I-3	A-5	94+50.0/5 25R	SD4.01	465.64
I-4	A-5	94+50.0/5 25L	SD4.01	465.64
EX-SD1-C	EX.	98+29.0/5 38L	EXISTING	433.42
I-13	A-5	99+00.0/5 25L	SD4.01	438.26
MI-8	DROP MH	100+00.0/5 20L	MD 383.11	417.65
I-6	A-5	109+10.0/5 25L	SD4.01	419.39
I-7	A-5	107+00.0/5 25L	SD4.01	426.67
I-8	A-5	105+00.0/5 25L	SD4.01	430.21
I-9	A-5	103+75.0/5 25L	SD4.01	431.57
I-10	A-5	102+50.0/5 25L	SD4.01	432.92
EX-SD1-F	EXISTING	EXISTING	EXISTING	---
I-11	A-5	101+32.0/5 25L	SD4.01	434.17
I-12	A-5	100+32.0/5 25L	SD4.01	435.30
I-14	A-5	109+10.0/5 25R	SD4.01	419.39
I-15	A-5	105+00.0/5 25R	SD4.01	430.21
I-16	A-5	102+50.0/5 25R	SD4.01	432.92
I-17	A-5	100+32.0/5 25R	SD4.01	435.30
I-18	A-5	112+40.0/5 25L	SD4.01	412.37
I-19	A-5	115+00.0/5 25L	SD4.01	415.74
MI-22-A	4' MH	OVER EX. 30' RCP (116+05.0/5 28L)	GS.01	422.27
I-21	A-5	112+40.0/5 25R	SD4.01	412.37
EW-1	TYPE 'A'	112+00.0/5 41L	SD5.11	408.40
EX-EW	EXISTING	112+03.0/5 41R	EXISTING	408.91
I-20	A-5	117+00.0/5 25L	SD4.01	419.27
I-22-B	Y-1	OVER EX. 24' RCP (116+17.0/5 30L)	SD4.14	417.49
I-22	A-5	119+75.0/5 25L	SD4.01	424.11
I-23	A-5	121+00.0/5 25L	SD4.01	426.91
I-24	A-5	123+00.0/5 25L	SD4.01	429.26
I-25	DROP MH	125+00.0/5 25L	MD 383.11	433.35
I-26	A-5	127+00.0/5 25L	SD4.01	436.87
MI-27	4'MI	128+15.0/5 28L	GS.01	438.97
JC-1	JC	128+99.0/5 27L	SDU2	---
EX-SD1-II	EXISTING	EXISTING	---	---
EX-SD1-I	EXISTING	EXISTING	---	---
I-28	A-5	130+00.0/5 25L	SD4.01	442.18
I-31	A-5	125+00.0/5 25R	SD4.01	433.66
I-32	A-5	128+15.0/5 25R	SD4.01	438.88
I-33	A-5	130+00.0/5 25R	SD4.01	442.18
I-29	A-5	131+25.0/5 25R	SD4.01	444.38
I-30	A-5	132+50.0/5 25L	SD4.01	446.46
I-45	EX. K to A-5	EXISTING	SD4.01	446.60

No.	Type	Location	II Co. Std. Det.	Top Elev.
EW-2	TYPE 'C'	109+00.0/5 25L	SD5.21 (for 30')	419.5
EW-3	TYPE 'C'	114+68.0/5 45L	SD5.21	411.5
EW-4	TYPE 'C'	112+40.0/5 70R	SD5.21	409.2



NOTE:
 1. INLET LOCATIONS AND ELEVATIONS ARE BASED AT THE TOP OF CURB ON THE DOWN STREAM CORNER OF THE STRUCTURE. MANHOLE LOCATIONS AND ELEVATIONS ARE SHOWN TO THE CENTERLINE OF THE STRUCTURE.
 2. ALL A-5 INLETS TO BE CONSTRUCTED WITH DEFLECTORS. SEE DETAIL THIS SHEET.



SCALE: HORIZ. 1" = 50'-0"
 VERT. 1" = 5'-0"

PROFILE LEGEND

PROFILE GRADE LINE
 EXISTING AT B
 R/W LINE RT.
 R/W LINE LT.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. ... 12/1/91
 Chief, Bureau of Engineering

Edward Anderson, 12/1/91
 Chief, Bureau of Highways

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS

3300 North Ridge Road, Suite 235, Elkton City, Maryland 21043-3350
 (301) 461-0078 D.C. Metro (301) 621-5763



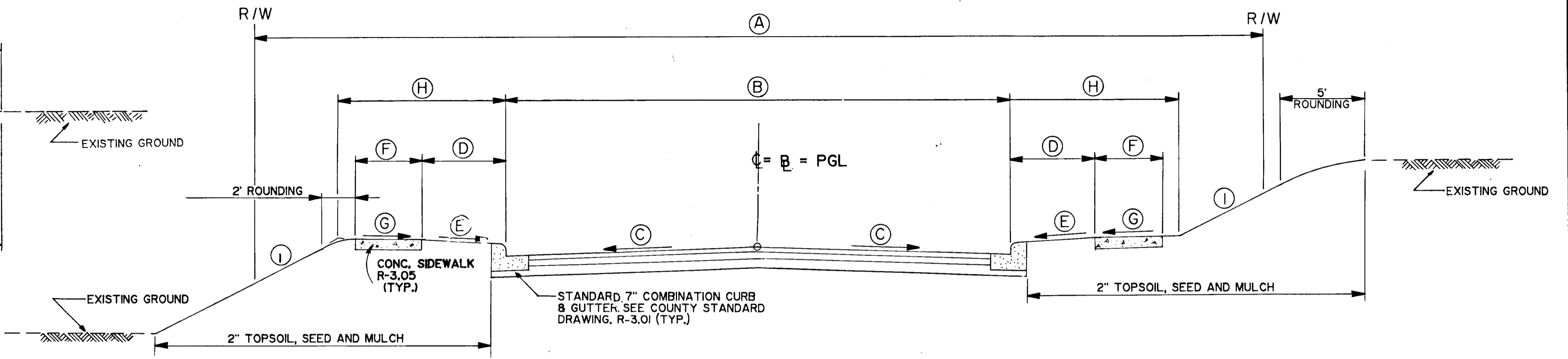
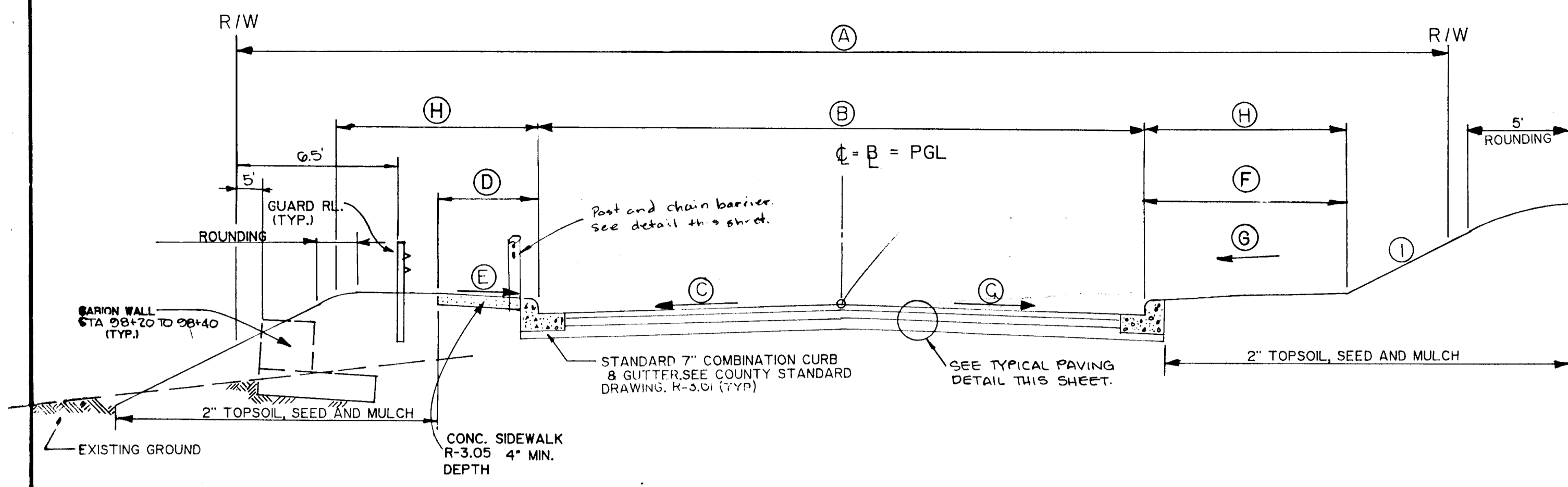
DES: JZF	KAM	1	Eliminate watermain Relocation.	JAN 92
DRN: KAM				
CHK: JZW				
DATE: 10/01	BY	NO.	REVISION	DATE

PLAN & PROFILE
 STA. 131+00 TO STA. 146+00
 CENTENNIAL LANE

600 SCALE MAP NO. 24 BLOCK NO.

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015-III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

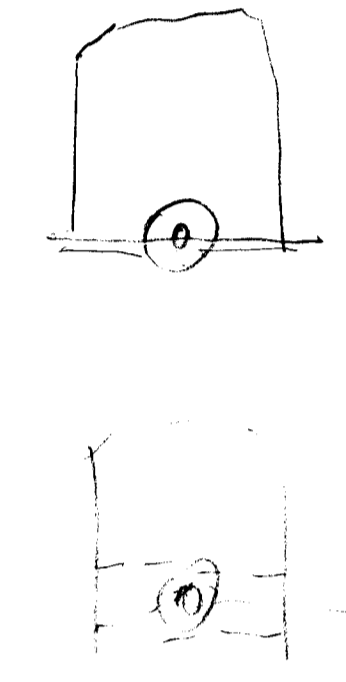
SCALE AS SHOWN
 SHEET 6 OF 27



STATIONING CENTENNIAL LANE	R/W	Pavement Width	Cross Slope	SIDEWALK	Slope	Grass Strip	Slope	Transition to Max. Slope		Max. Slope	Design Speed	Classification
								LEFT	RIGHT			
81+50 to 91+75	80'	49'	2%	5'	4%	8'	4%	8'	8'	2:1	35 mph	Minor Arterial
91+75 to 96+50	80'	50'	2%	5'	4%	8'	4%	6'	8'	2:1	35 mph	Minor Arterial
97+00 to 97+50	80'	50'	2%	5'	4%	6.5'	4%	6'	6'	1 1/2:1	35 mph	Minor Arterial
98+00 to 98+50	80'	50'	2%	5'	4%	6.5'	4%	6'	6'	1 1/2:1	35 mph	Minor Arterial
99+00 to 100+00	80'	50'	2%	5'	4%	5.5'	4%	6'	4.5'	1 1/2:1	35 mph	Minor Arterial
100+50 to 103+00	80'	50'	2%	5'	4%	6.5'	4%	6'	6'	1 1/2:1	35 mph	Minor Arterial
103+50 to 108+50	80'	50'	-2%	5'	4%	8'	4%	6'	8'	1 1/2:1	35 mph	"
109+00 to 110+50	80'	50'	-2%	5'	4%	6.5'	4%	6'	5.5'	1 1/2:1	35 mph	"
111+00 to 112+00	80'	50'	-2%	5'	4%	6.5'	4%	6'	5.5'	1 1/2:1	35 mph	"
112+50 to 113+00	80'	50'	-2%	5'	4%	8'	4%	6'	8'	1 1/2:1	35 mph	"
113+50 to 114+00	80'	50'	2%	5'	4%	8'	4%	6'	8'	2:1	35 mph	"
114+50 to 116+00	80'	50'	2%	5'	4%	6.5'	4%	7'	6'	1 1/2:1	35 mph	Minor Arterial
116+50 to 118+00	80'	50'	2%	5'	4%	8'	4%	8'	8'	2:1	35 mph	Minor Arterial
118+50 to 119+00	80'	50'	2%	5'	4%	7'	4%	6'	7'	1 1/2:1	35 mph	Minor Arterial
119+50 to 127+00	80'	50'	2%	5'	4%	8'	4%	8'	8'	2:1	35 mph	"
127+50 to 136+00	80'	50'	2%	5'	4%	8'	4%	6'	8'	2:1	35 mph	"

GUARD RAIL TABULATION

TRAIL END ANCHORAGE 97+05 O/S 40' L
 TRANSITION TO NORMAL 98+10 O/S 33.5' L
 TRANSITION FROM NORMAL 98+70 O/S 33.5' L
 TRAIL END ANCHORAGE 99+01 O/S 40' L

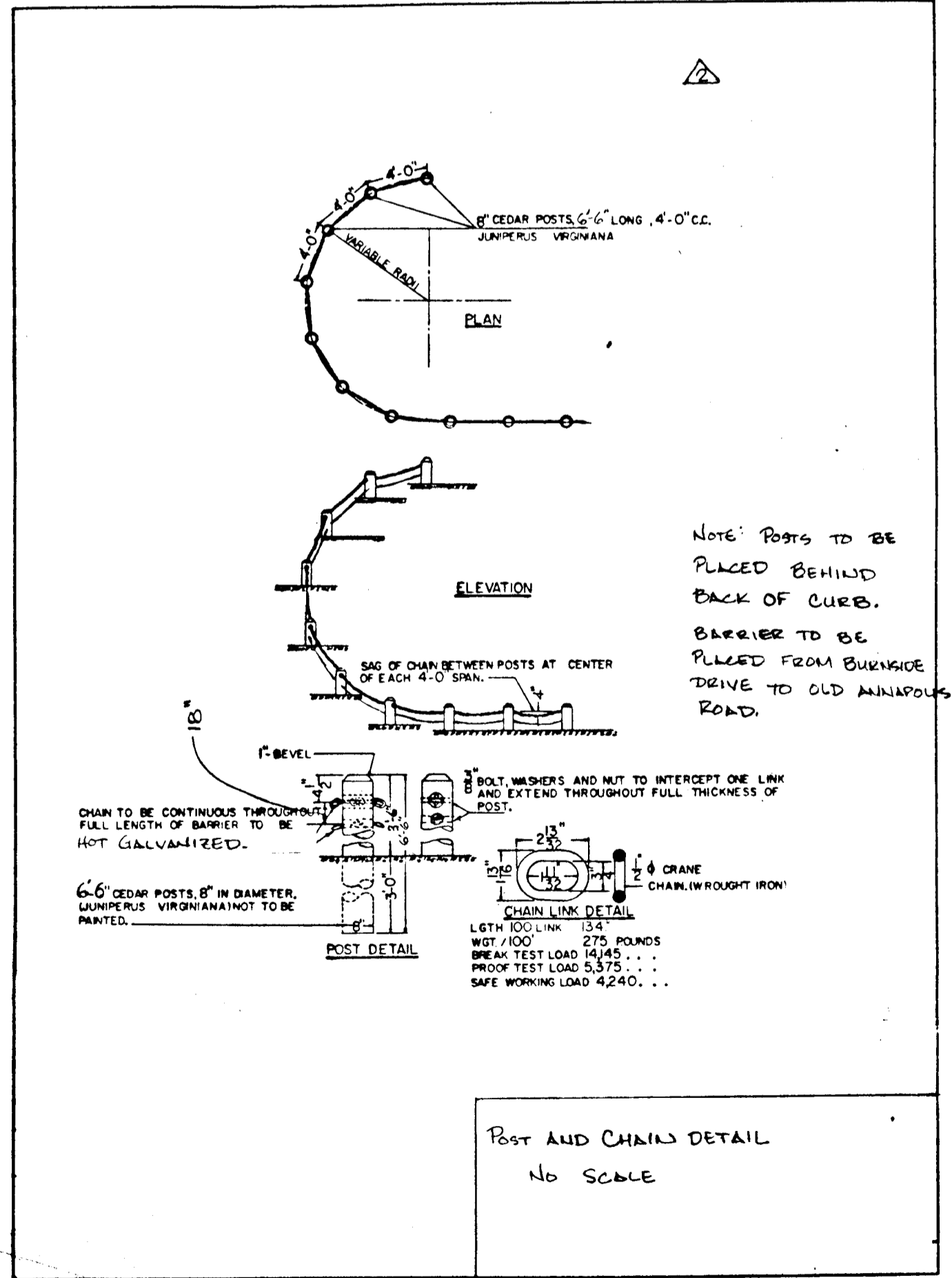


TYPICAL SECTION INTERSECTING ROADS
NO SCALE

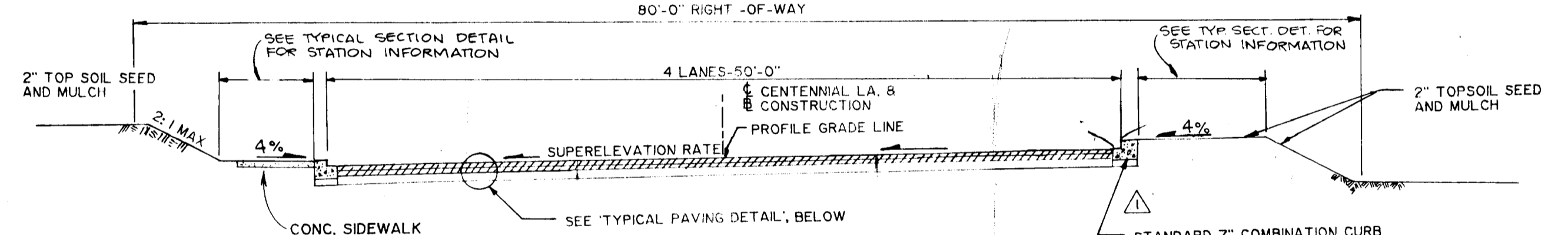
STATIONING	ROADWAY	R/W	Pavement Width	Cross Slope	Grass Strip	Slope	Sidewalk Width	Slope	Transition to Max. Slope	Max. Slope	Type	Classification
0+00 TO 0+00	S. Breconshire Rd.	60'	36'	3%	7'	4%	4'	2%	12'	2:1	P-3	Minor Collector
0+00 TO 0+00	Old Annapolis Rd.	80'	44'	2%	9'	4%	4'	2%	14'	2:1	P-3	Major Collector
0+00 TO 0+50	Glastonbury Road	60'	36'	3%	7'	4%	4'	2%	12'	2:1	P-3	Minor Collector
0+00 TO 0+60	Ducks Foot Lane	50'	32'	3%	4'	4%	4'	2%	9'	2:1	P-2	Local Street
0+00 TO 0+50	Culverens Road	50'	32'	3%	4'	4%	4'	2%	9'	2:1	P-2	Local Street
0+00 TO 1+5	N. Breconshire Road	60'	36'	3%	7'	4%	4'	2%	12'	2:1	P-3	Minor Collector

TYPICAL CLOSED SECTION ROAD - CENTENNIAL LANE
NOT TO SCALE

NOTE: ALONG PORTIONS OF CENTENNIAL LANE, NOT SPECIFIED IN THE ABOVE LISTED TABULATION, WHERE GRASS STRIP WIDTH (F), TRANSITION TO MAX. SLOPE LEFT & RIGHT (H) & Max. Slope (I) VARY, PROVIDE SMOOTH TRANSITIONS BETWEEN STATIONS LISTED ABOVE.



CENTENNIAL LANE
80'-0" RIGHT-OF-WAY



TYPICAL SUPERELEVATION SECTION
NOT TO SCALE

1 1/2" BIT. CONC. SURFACE COURSE (BAND SF)
 1 1/2" BIT. CONC. SURF. COURSE (BAND SF)
 7" BIT. CONC. BASE COURSE (BAND BI)
 (8") CRUSHER RUN BASE COURSE (CR-6)
 (2.4" COURSES)
 PRIME COAT

TYP. PAVING DETAIL CENTENNIAL LANE
NO SCALE

SUPERELEVATION TABULATION

BEGIN SUPERELEVATION TRANSITION 114+11.06
 BEGIN FULL SUPERELEVATION 116+23.06
 END FULL SUPERELEVATION 122+36.63
 END SUPERELEVATION TRANSITION 124+50.63
 * SEE SUPERELEVATION HORIZONTAL AND VERTICAL CONTROL SHEET FOR MORE INFORMATION.

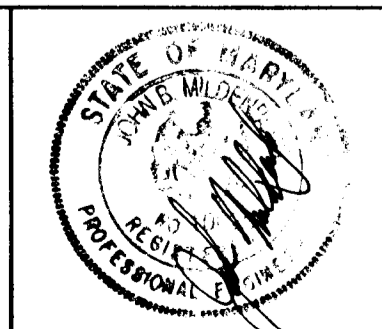
Handwritten calculations:
 $18 \frac{1}{2} \times 23 \frac{1}{2} = 424.60$
 $424.60 \times 24 \div 9 = 11,799.57 @ 6.50$
 $= \$76,693$

Handwritten calculations:
 Begin 91+75.40
 End 136+00.00
 $4424.60 \times 24 \div 9 = 11,799.57 @ 6.50$
 $= \$76,693$
 $(24 \times 4424.60 \times 19) \times 6 = \frac{2172}{165} \text{ TONS}$

Handwritten calculations:
 $50 - 3 = 47$
 $47 - 24 = 23$
 $23 \times 1.56 = 36.18$
 $36.18 + 1.56 = 37.74$
 $37.74 \times 1.56 = 58.87$
 $58.87 + 1.56 = 60.43$
 PGL - .47
 - .09
 1.56
 1.56
 add .02 to PGL to get Top of Inlet @ 2 or Top of curb

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS
 3300 North Rapp Road, Suite 235, Ellicott City, Maryland 21043-2350
 (301) 461-0076 D.C. Metro (301) 621-5786

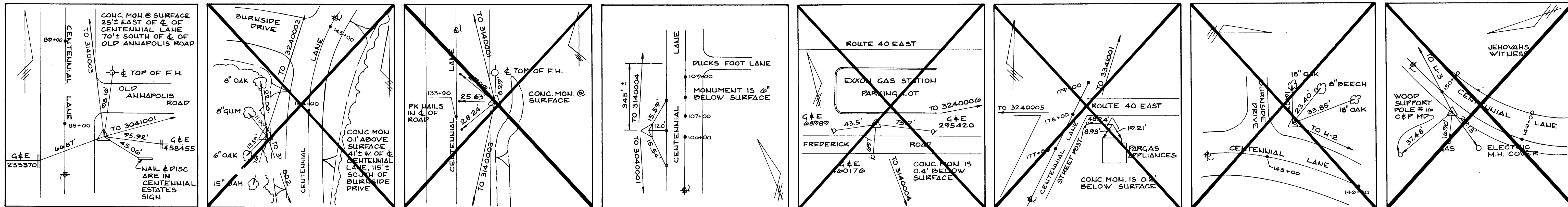


DESIGNED BY	JDM/KAM	DATE	1/2/91
CHECKED BY	JDM	DATE	1/2/91
APPROVED BY		DATE	
REVISION		DATE	

MISC. TYPICAL SECTIONS FOR INTERSECTING ROADS CENTENNIAL LANE

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015- III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 7 OF 27



HOWARD CO. # 3040001
 N 518298.243
 E 838017.587
 ELEV. = 494.42
 STA. 87+00 ± 0/5 32 ± R

HOWARD CO. # 3140001
 N 523547.740
 E 838056.376
 ELEV. = 430.43
 STA. 143+70 ± 0/5 37 ± L

HOWARD CO. # 3140002
 N 522590.105
 E 838530.841
 ELEV. = 445.77
 STA. 153+10 ± 0/5 30 ± R

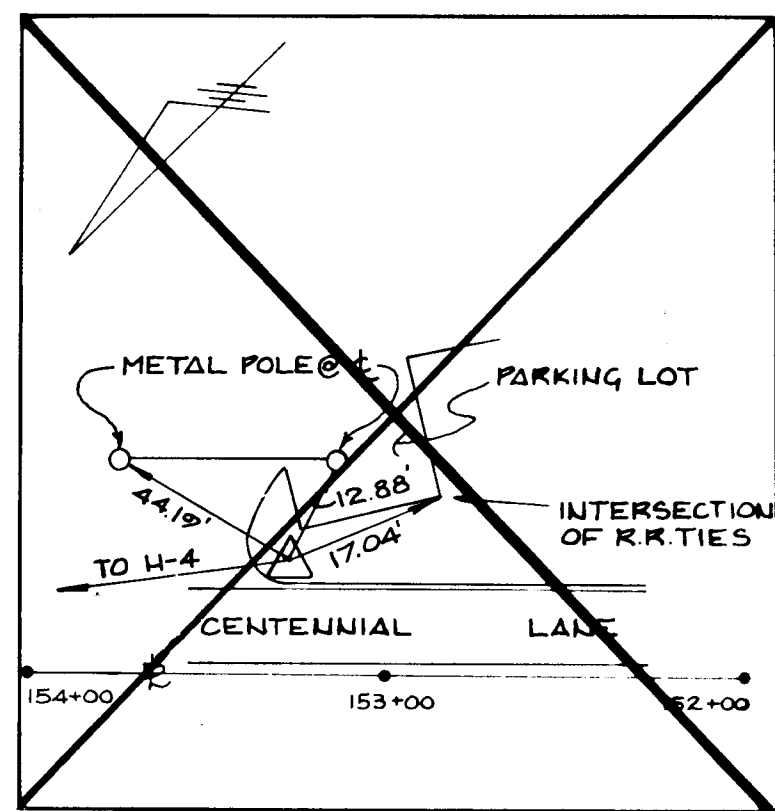
HOWARD CO. # 3140005
 N 520049.576
 E 838594.190
 ELEV. = 420.99
 STA. 100+15 ± 0/5 20 ± L

HOWARD CO. # 3240005
 N 526615.577
 E 838351.344

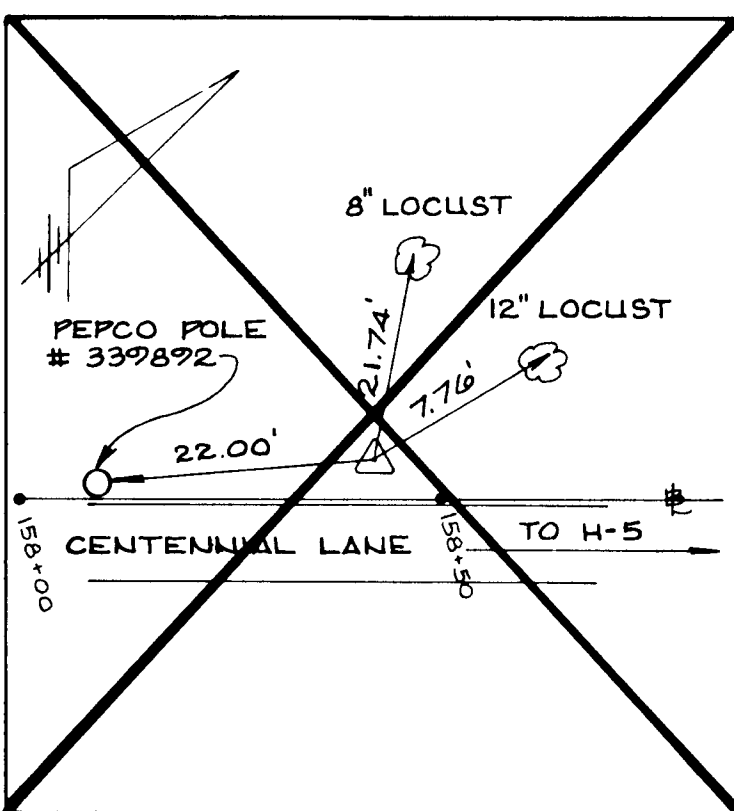
HOWARD CO. # 3240006
 N 526558.644
 E 838046.549
 ELEV. = 418.00
 STA. 178+04 ± 0/5 70 ± R

△ H-1
 N 523713.218
 E 838046.549
 ELEV. = 418.00
 STA. 145+30 ± 0/5 25 ± L

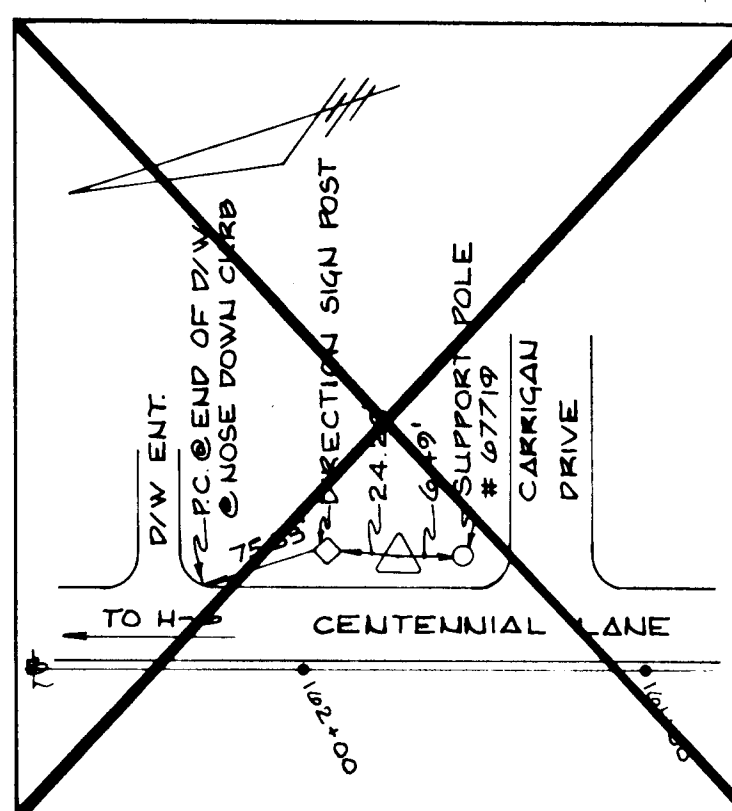
△ H-2
 N 524581.17
 E 83869.845
 ELEV. = 383.82
 STA. 149+90 ± 0/5 5 ± L



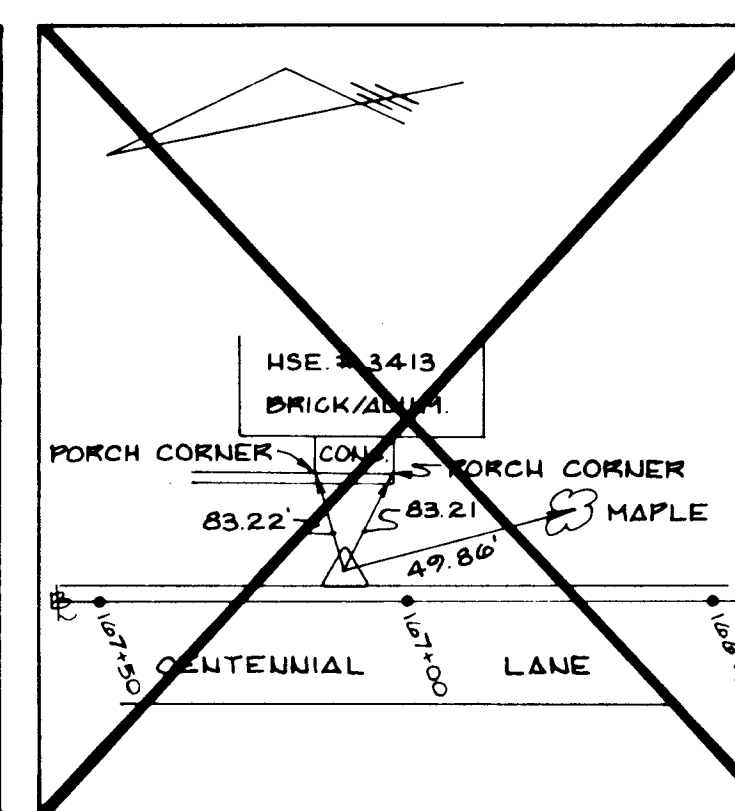
△ H-3
 N 524403.962
 E 838400.668
 ELEV. = 374.04
 STA. 153+28 ± 0/5 27 ± R



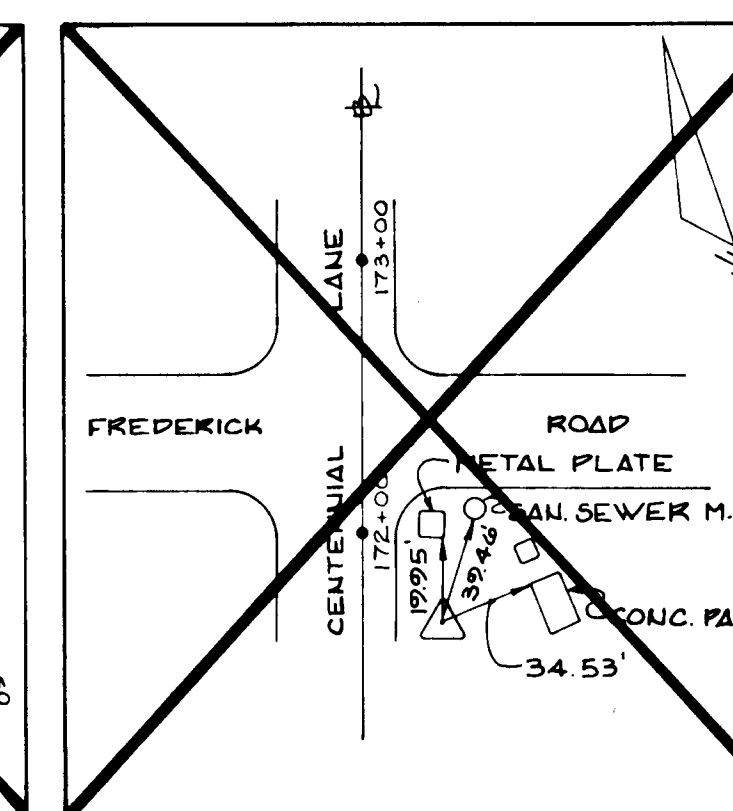
△ H-4
 N 524800.695
 E 838721.728
 ELEV. = 301.89
 STA. 158+37 ± 0/5 5 ± L



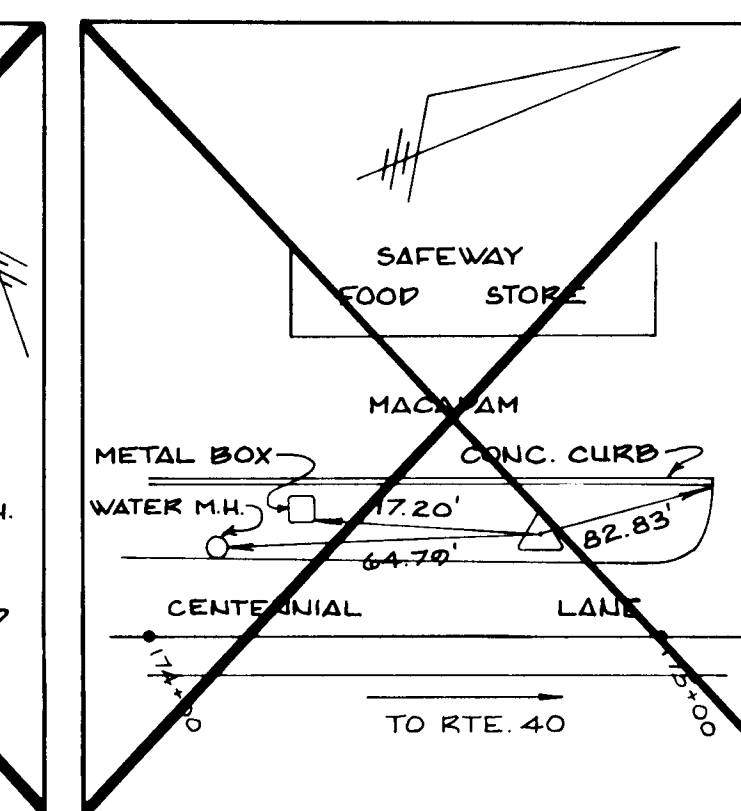
△ H-5
 N 525046.407
 E 838723.591
 ELEV. = 303.91
 STA. 101+85 ± 0/5 31 ± R



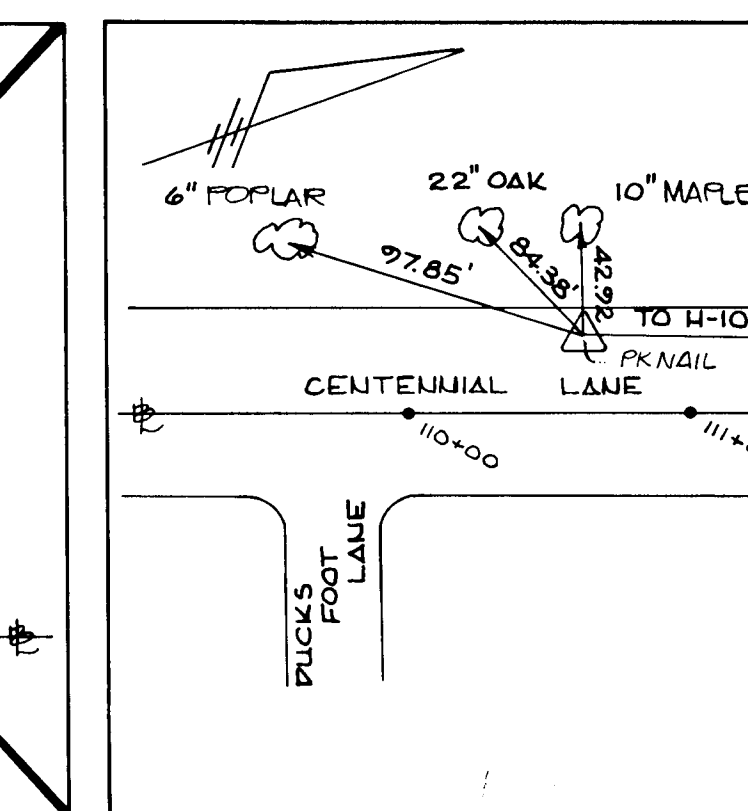
△ H-6
 N 525566.666
 E 839108.332
 ELEV. = 404.30
 STA. 107+15 ± 0/5 3 ± R



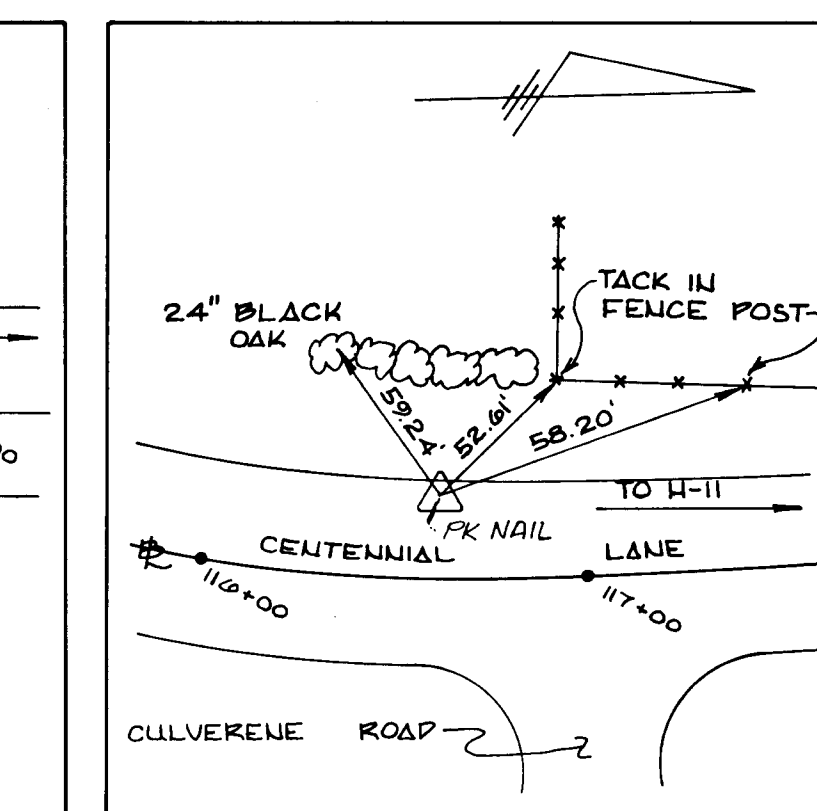
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 E 839217.444
 ELEV. = 425.31
 STA. 171+05 ± 0/5 14 ± R



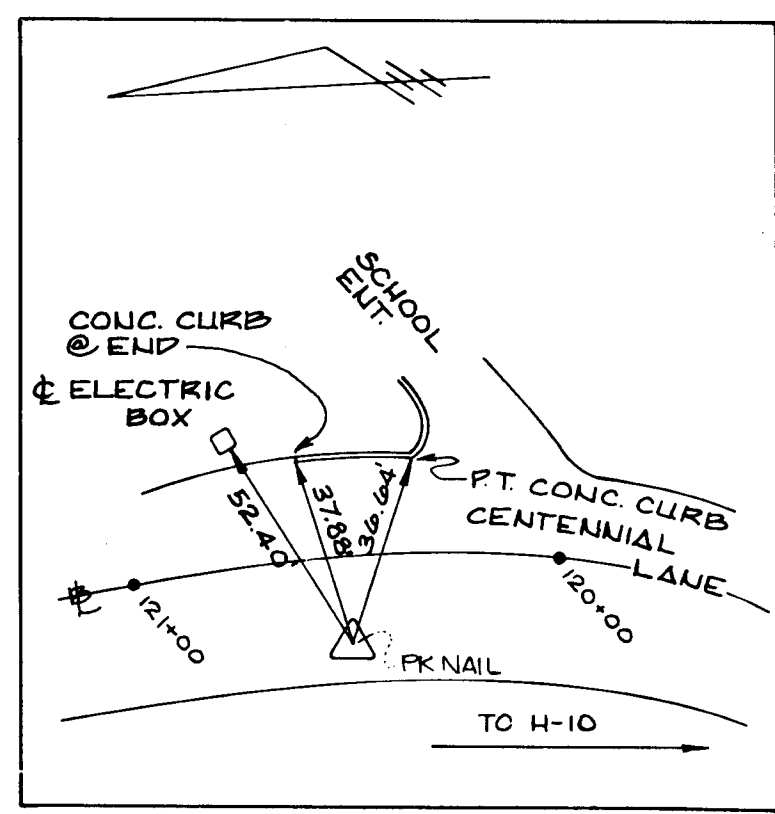
△ H-8
 N 526317.482
 E 839296.061
 ELEV. = 420.35
 STA. 174+85 ± 0/5 34 ± L



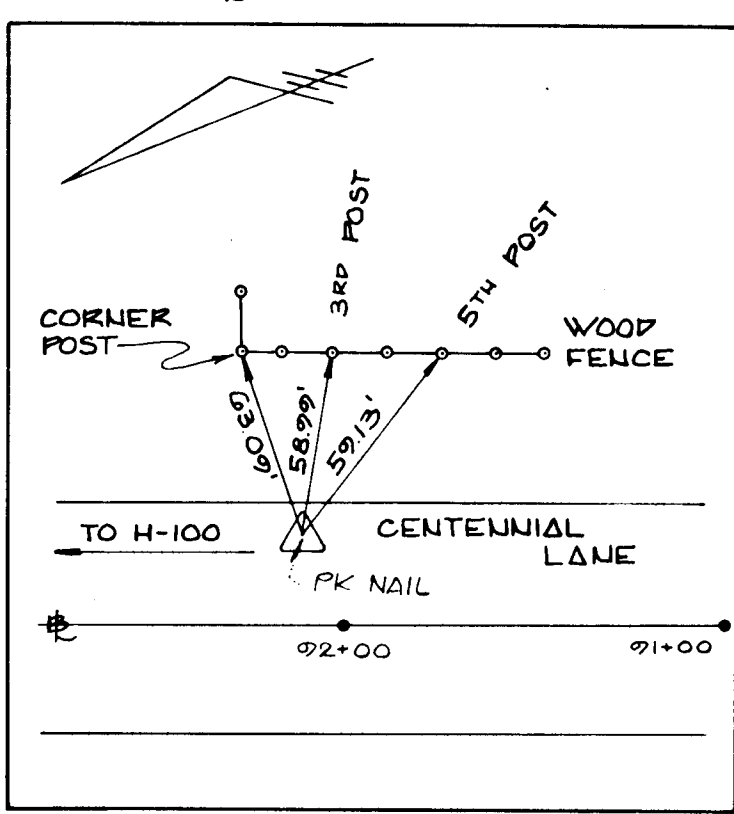
△ H-9
 N 520476.628
 E 838757.086
 ELEV. = 413.88
 STA. 110+70 ± 0/5 12 ± L



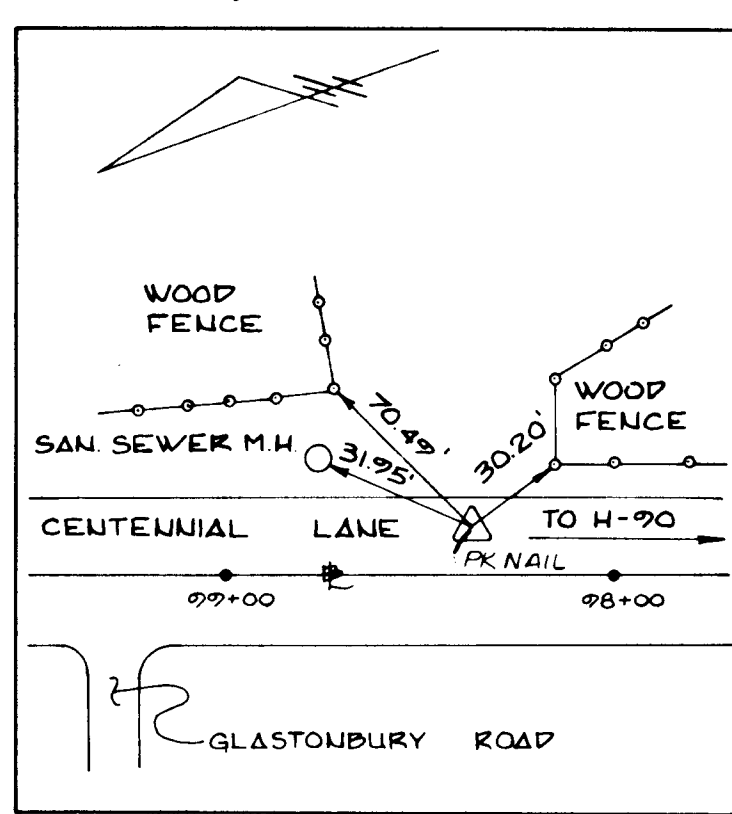
△ H-10
 N 521034.270
 E 838948.916
 ELEV. = 418.00
 STA. 110+00 ± 0/5 10 ± L



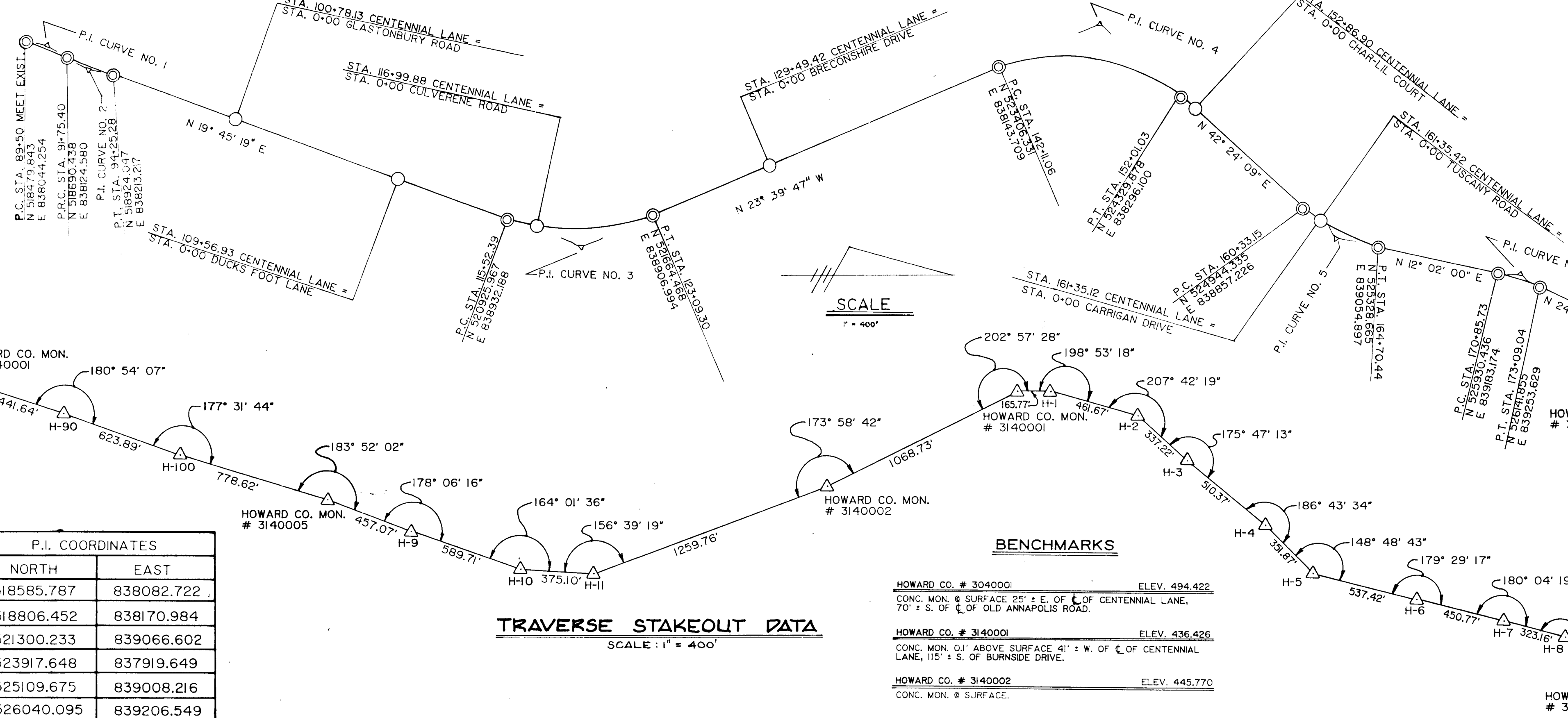
△ H-11
 N 521408.854
 E 838968.613
 ELEV. = 425.71
 STA. 120+45 ± 0/5 12 ± L



△ H-90
 N 518716.862
 E 838158.311
 ELEV. = 419.99
 STA. 92+10 ± 0/5 22 ± R



△ H-100
 N 519305.026
 E 838366.393
 ELEV. = 439.08
 STA. 98+35 ± 0/5 10 ± R



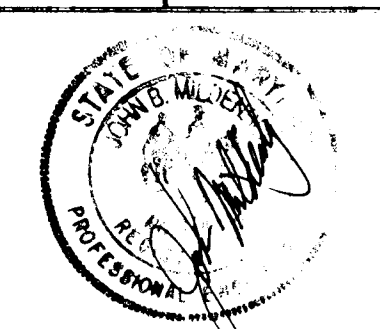
CURVE NO.	DELTA	DC	RADIUS	TAN	ARC	EXT	CHORD	CENTER CURVE COORDINATES		P.I. COORDINATES	
								NORTH	EAST	NORTH	EAST
1	01° 50' 42"	00' 49' 07"	7000.00'	112.71'	225.40'	0.91'	N 20° 52' 41" E, 225.39'	516090.803	844623.957	518585.787	838082.722
2	02° 02' 43"	00' 49' 07"	7000.00'	124.95'	249.87'	1.12'	N 20° 46' 40" E, 249.86'	521290.073	831625.203	518806.452	838170.984
3	43° 25' 06"	05' 44' 10"	998.84'	397.67'	756.91'	76.25'	N 01° 57' 14" W, 738.93'	521263.578	837992.138	521300.233	839066.602
4	66° 03' 56"	06' 40' 24"	858.56'	558.26'	989.97'	165.54'	N 09° 22' 11" E, 936.04'	523750.920	838930.083	523917.648	837919.649
5	30° 22' 09"	06' 56' 42"	825.00'	223.91'	437.29'	29.85'	N 27° 13' 05" E, 432.18'	525500.661	838248.025	525109.675	839008.216
6	12° 47' 42"	05' 43' 46"	1000.00'	112.12'	223.31'	6.27'	N 18° 25' 51" E, 222.85'	525721.955	840161.200	526040.095	839206.549

TRAVERSE STAKEOUT DATA
 SCALE: 1" = 400'

BENCHMARKS
 HOWARD CO. # 3040001
 CONC. MON. @ SURFACE 25' ± E. OF C. OF CENTENNIAL LANE,
 70' ± S. OF C. OF OLD ANNAPOLIS ROAD. ELEV. 494.422
 HOWARD CO. # 3140001
 CONC. MON. 01' ABOVE SURFACE 41' ± W. OF C. OF CENTENNIAL
 LANE, 115' ± S. OF BURNSIDE DRIVE. ELEV. 436.426
 HOWARD CO. # 3140002
 CONC. MON. @ SURFACE. ELEV. 445.770

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *12/4/9*
 Chief, Bureau of Engineering: *12/3/91*
 Chief, Bureau of Highways: *12/4/9*

MILDENBERG,
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 ENGINEERS • SURVEYORS • PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0078 U.C. Menu: (301) 621-5788

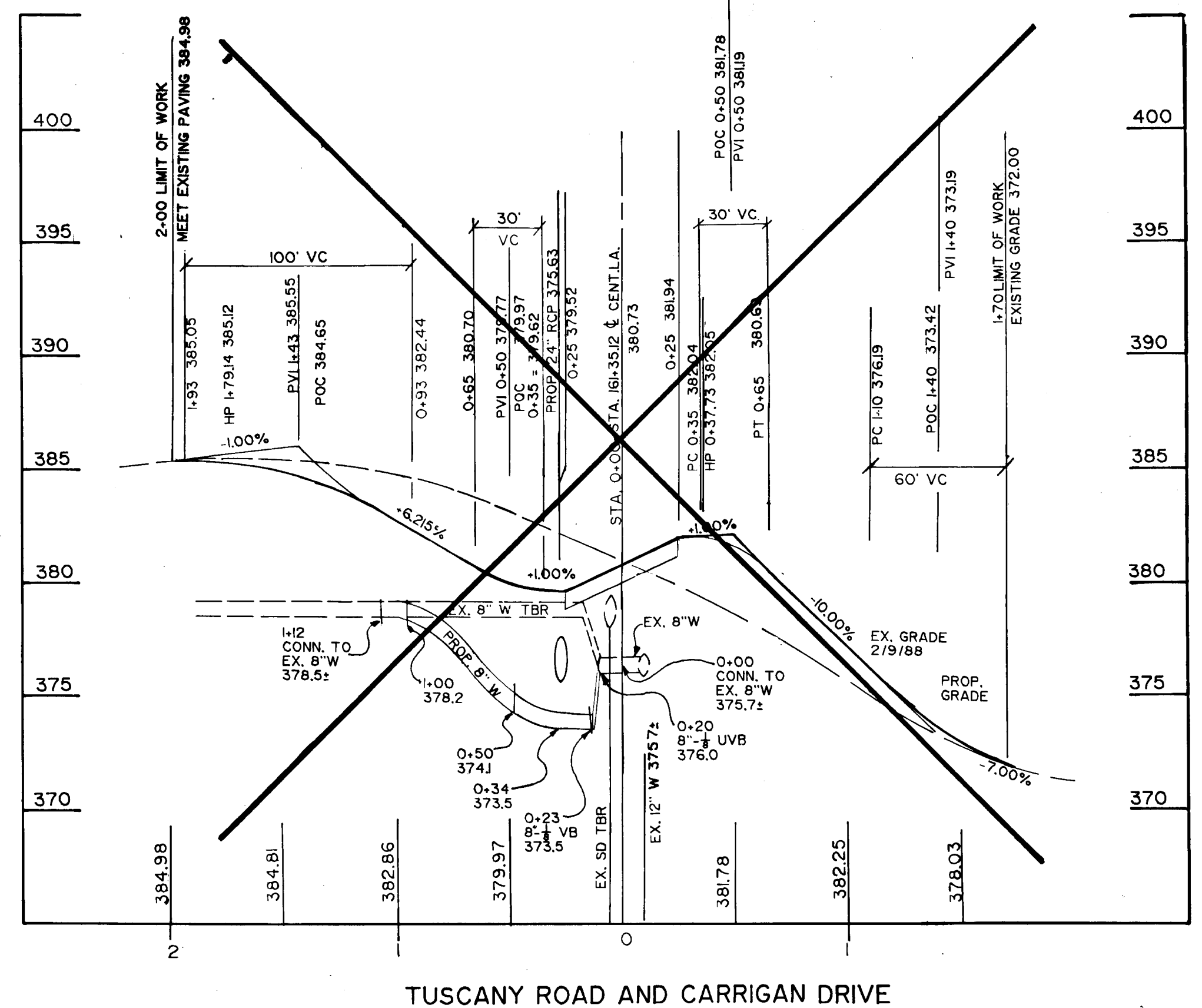
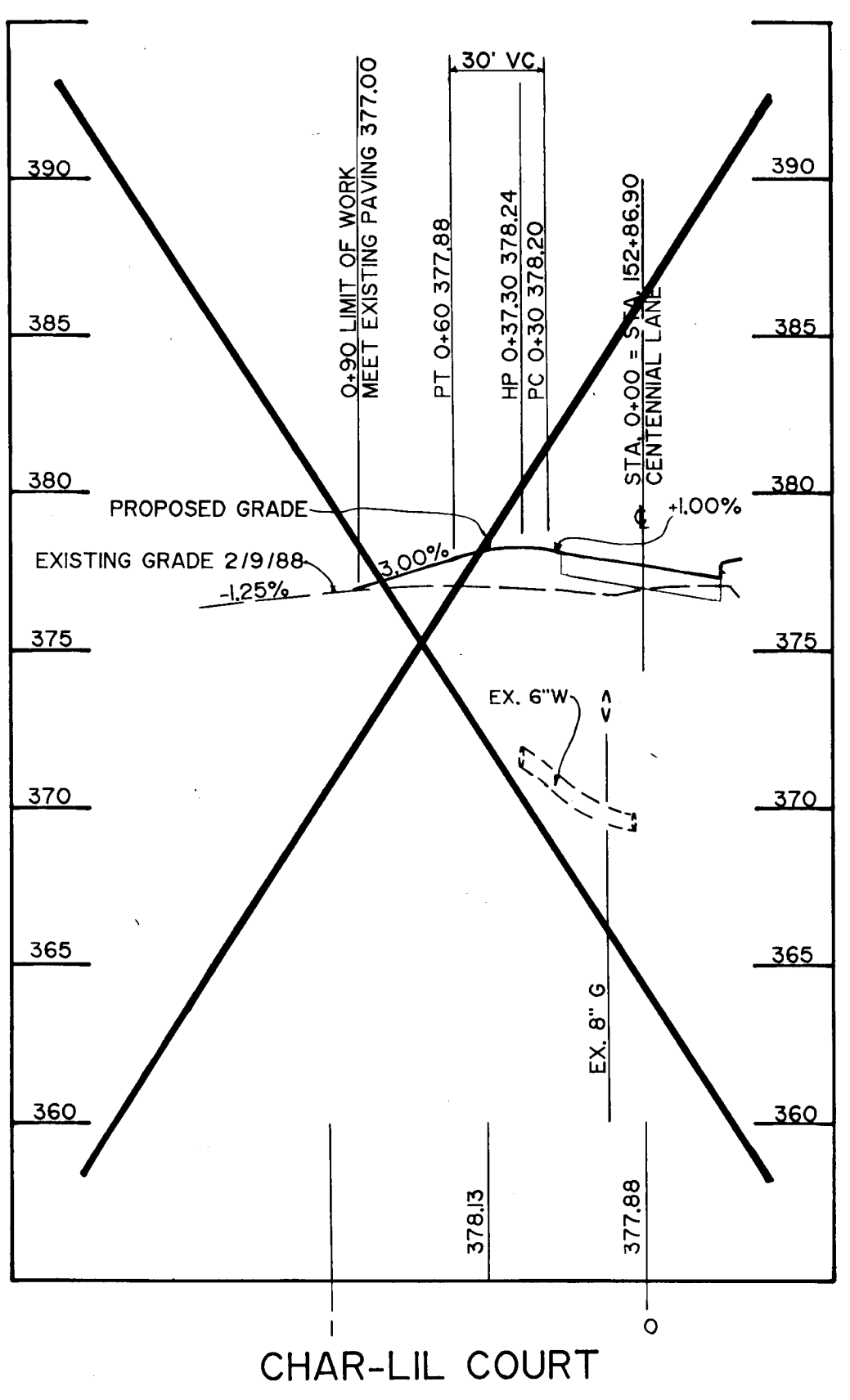
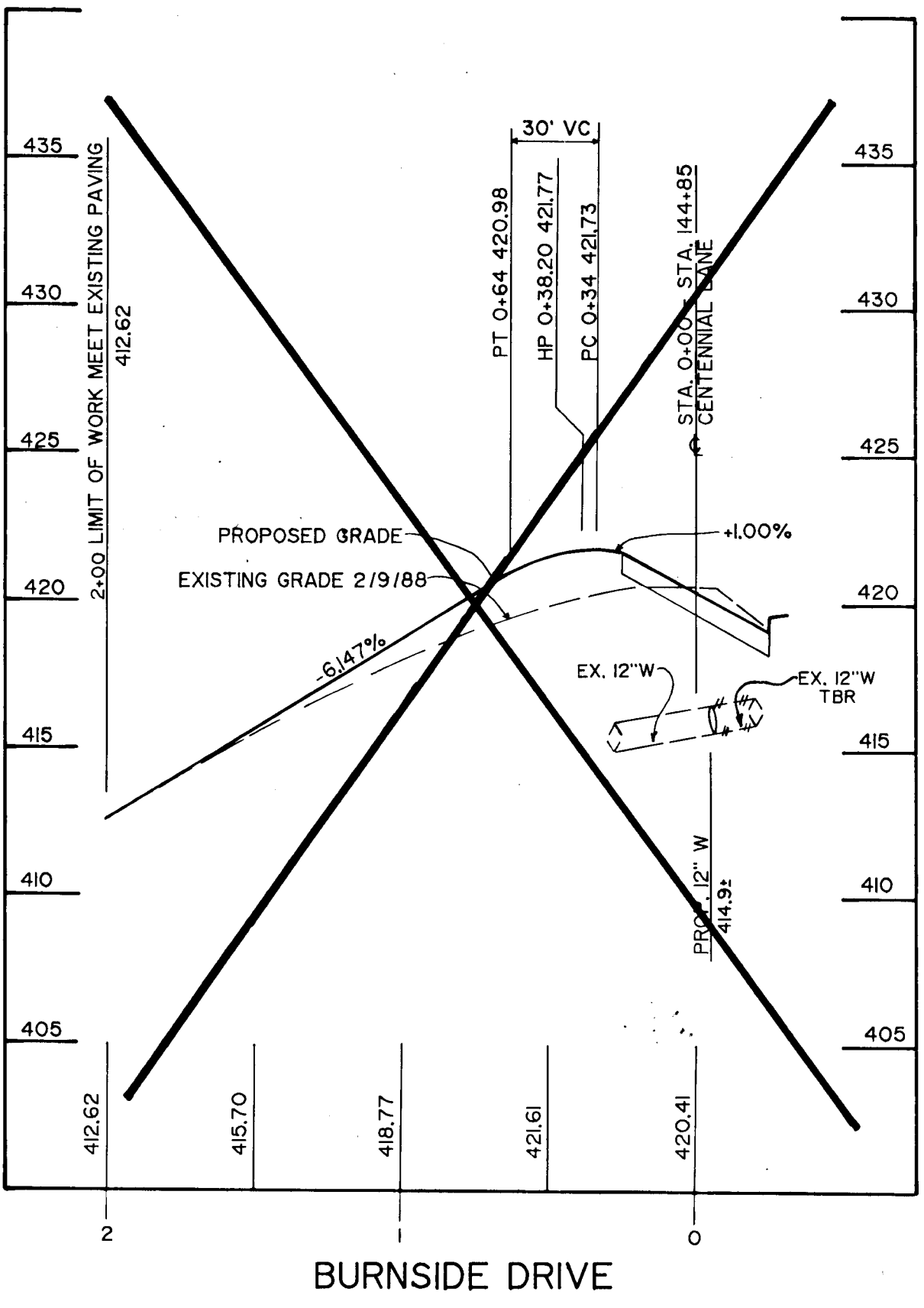
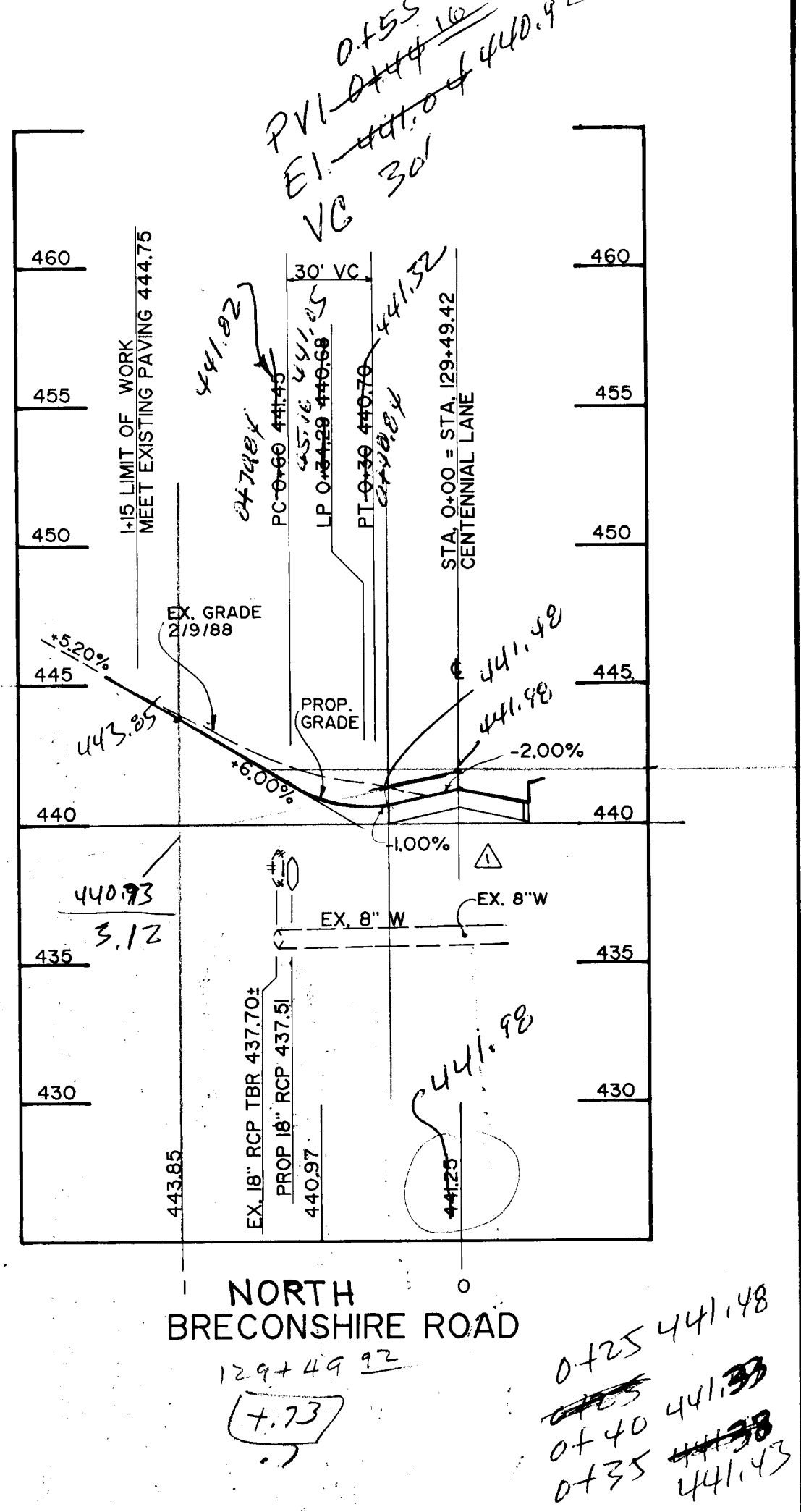
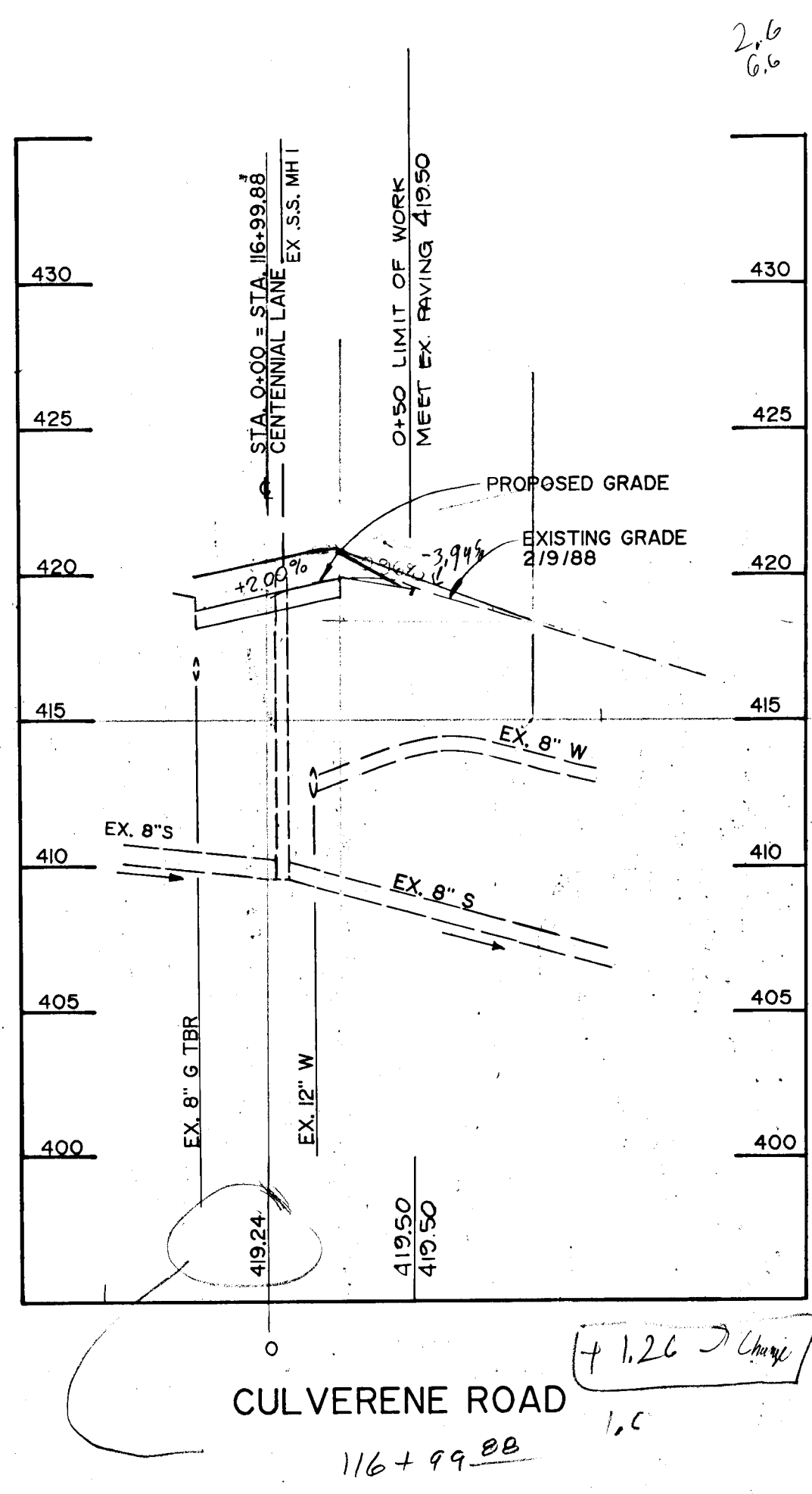
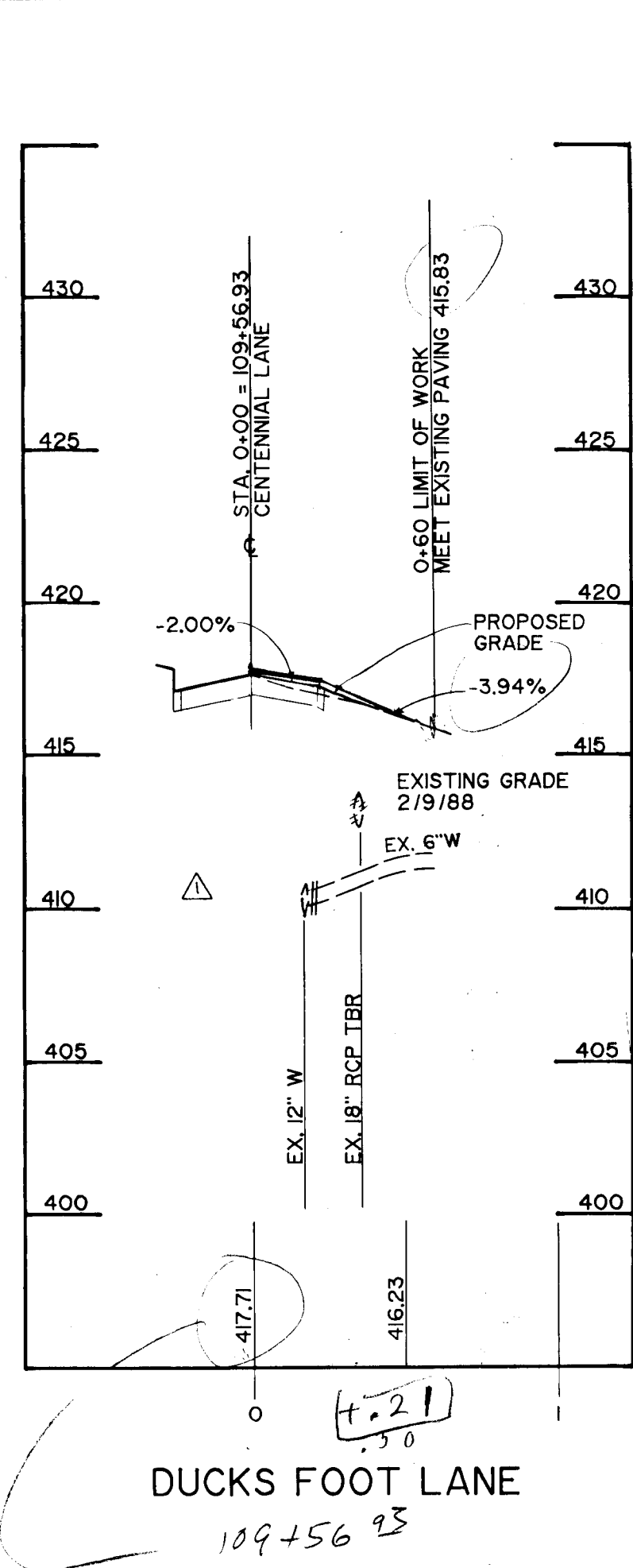
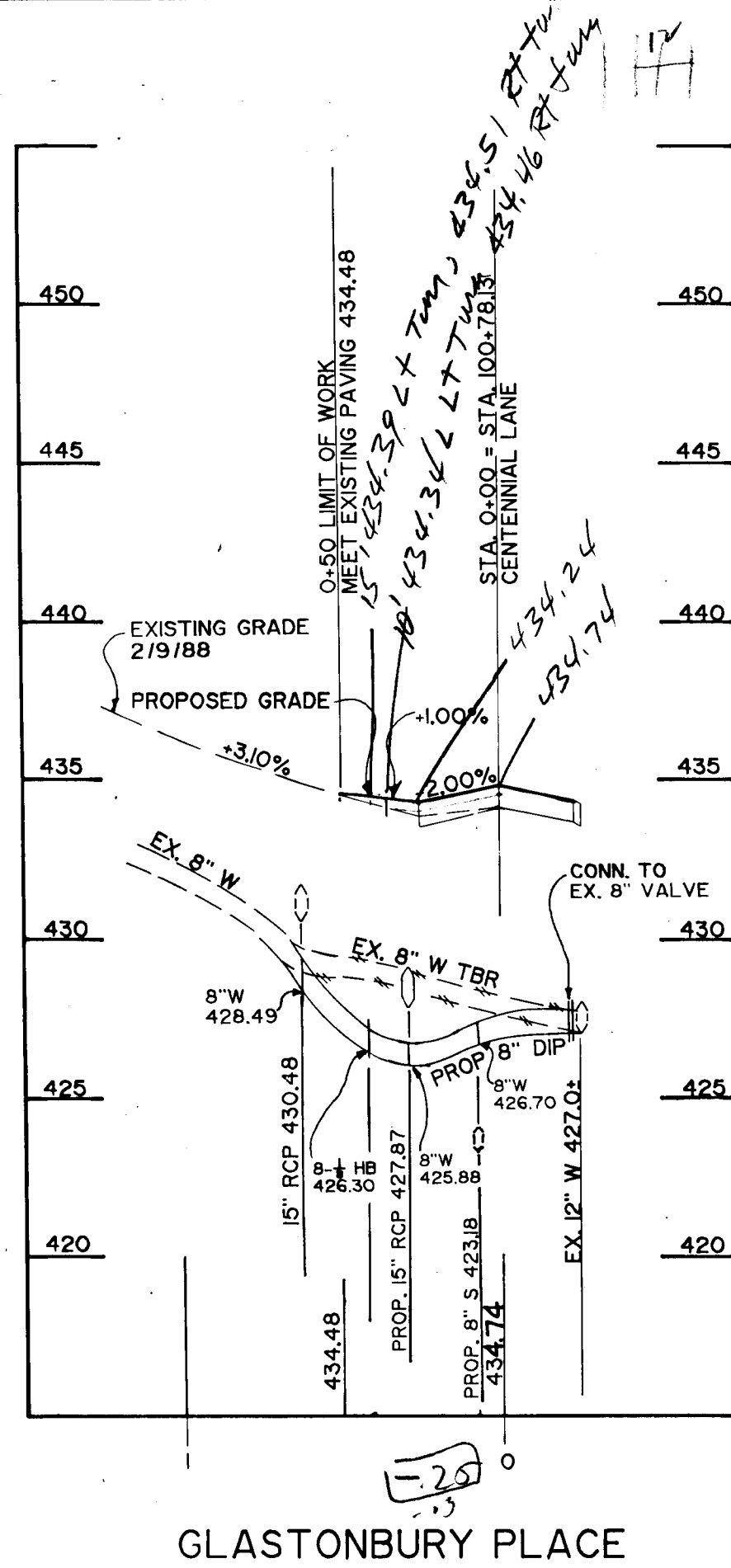


DES: JEM/SLM
 DRN: STAFF
 CHK: JEM
 DATE: 12/21 BY: NO. REVISION DATE

HORIZONTAL & VERTICAL
 CONTROLS
 CENTENNIAL LANE

OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015- III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

NOT TO SCALE
 SHEET 9 OF 27



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] DATE: 12/14/91
 Chief, Bureau of Engineering: [Signature] DATE: 12/3/91
 Chief, Bureau of Highways: [Signature] DATE: 12/14/91

MILDBERG MOCHI & ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS
 2300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0078 D.C. Metro: (301) 421-5788

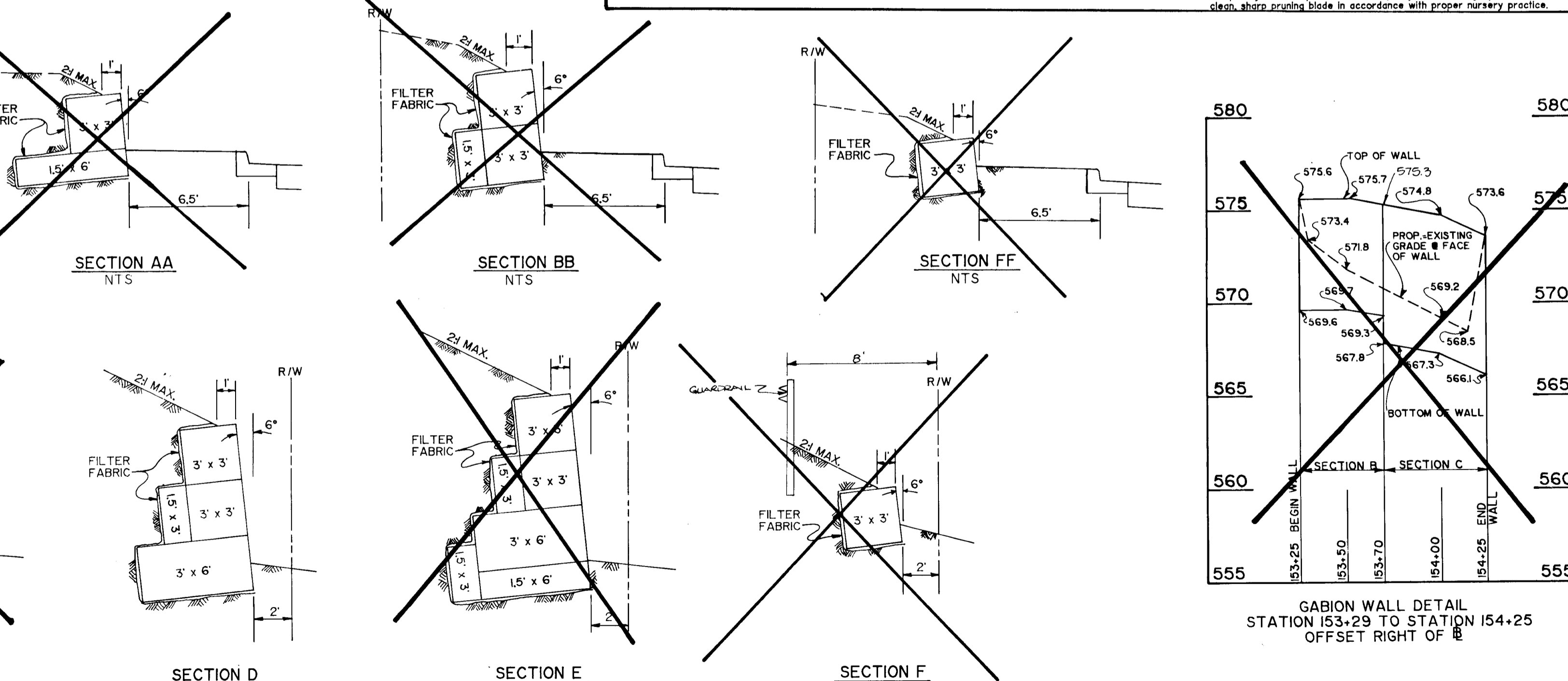
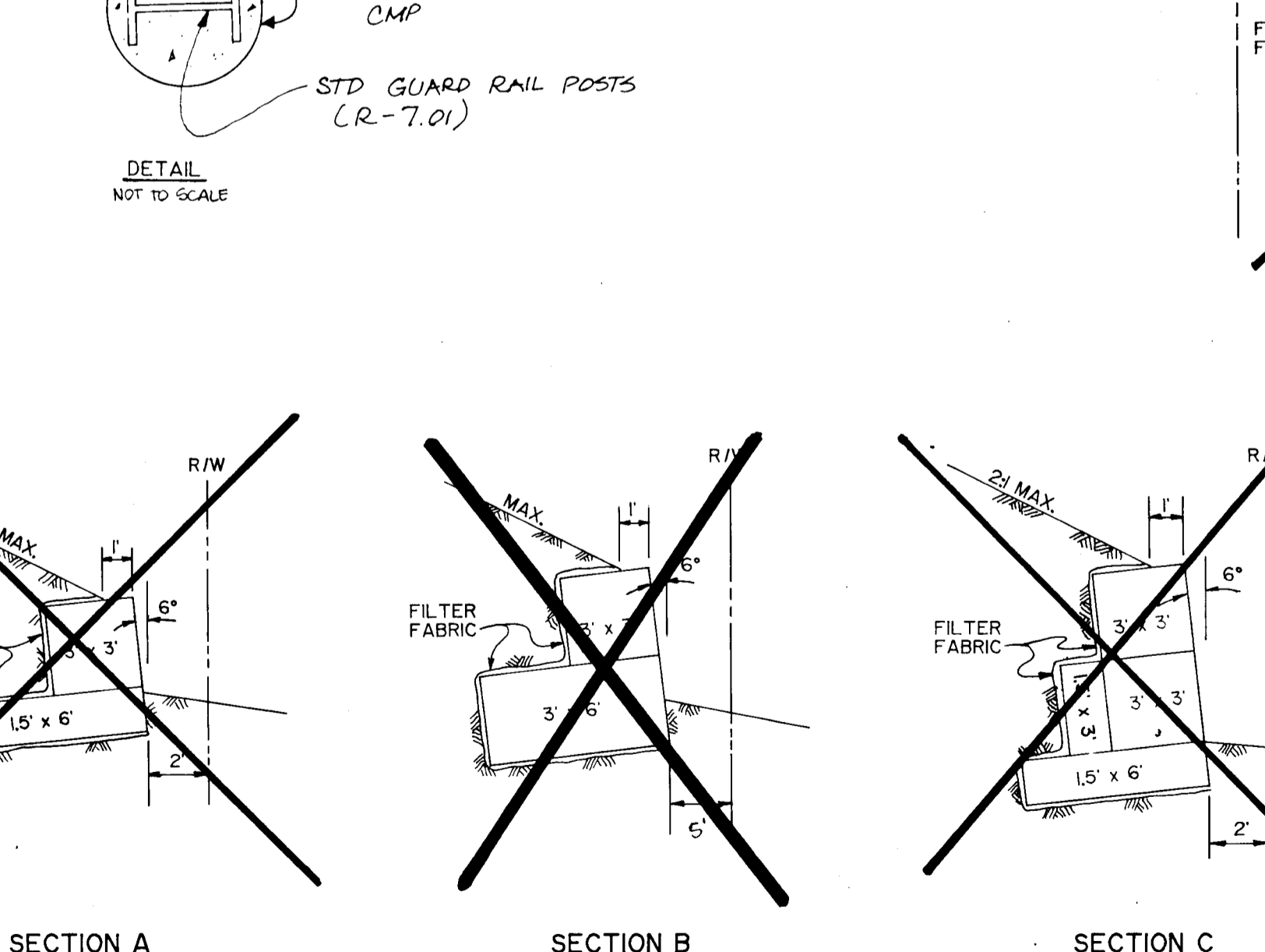
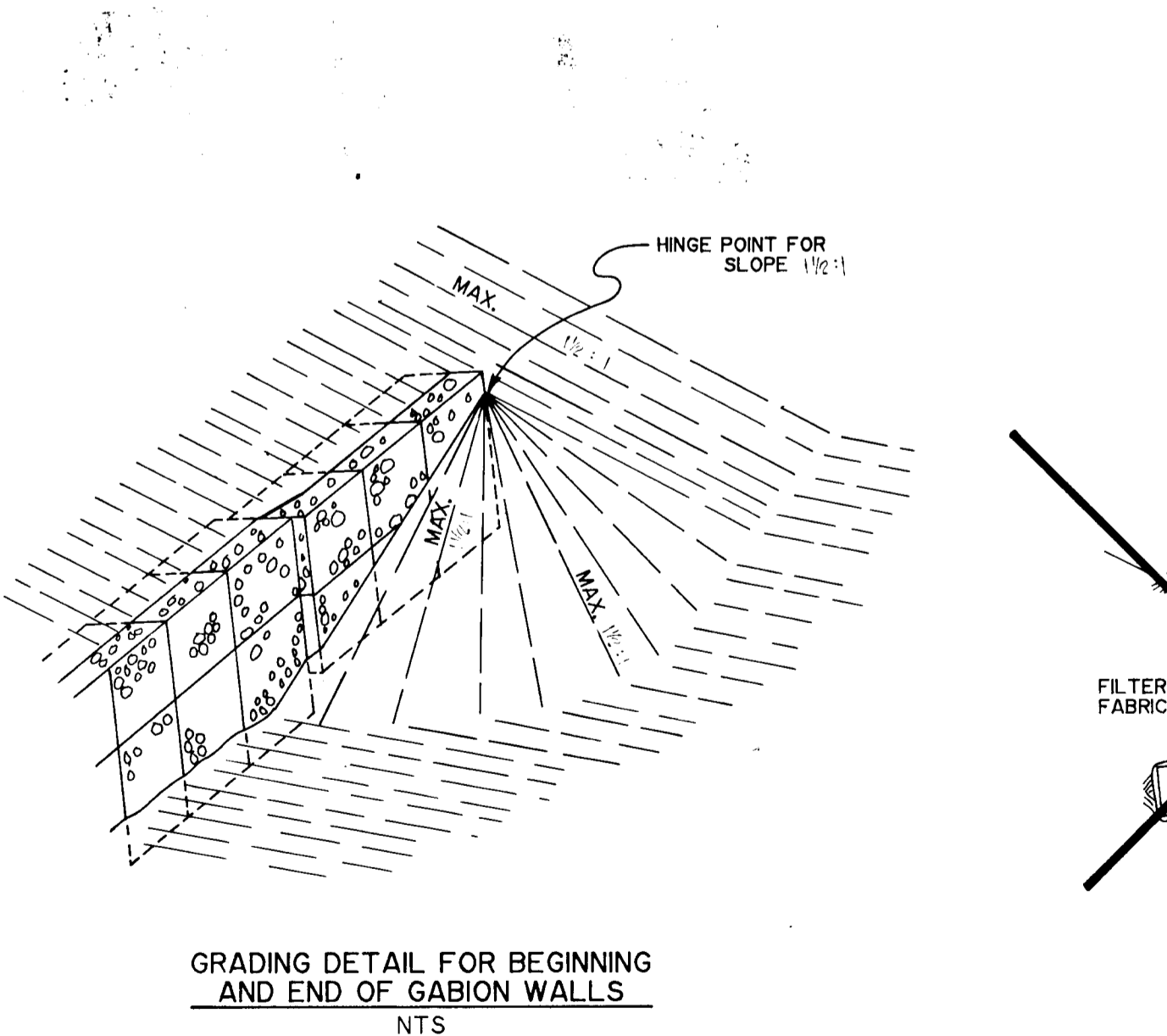
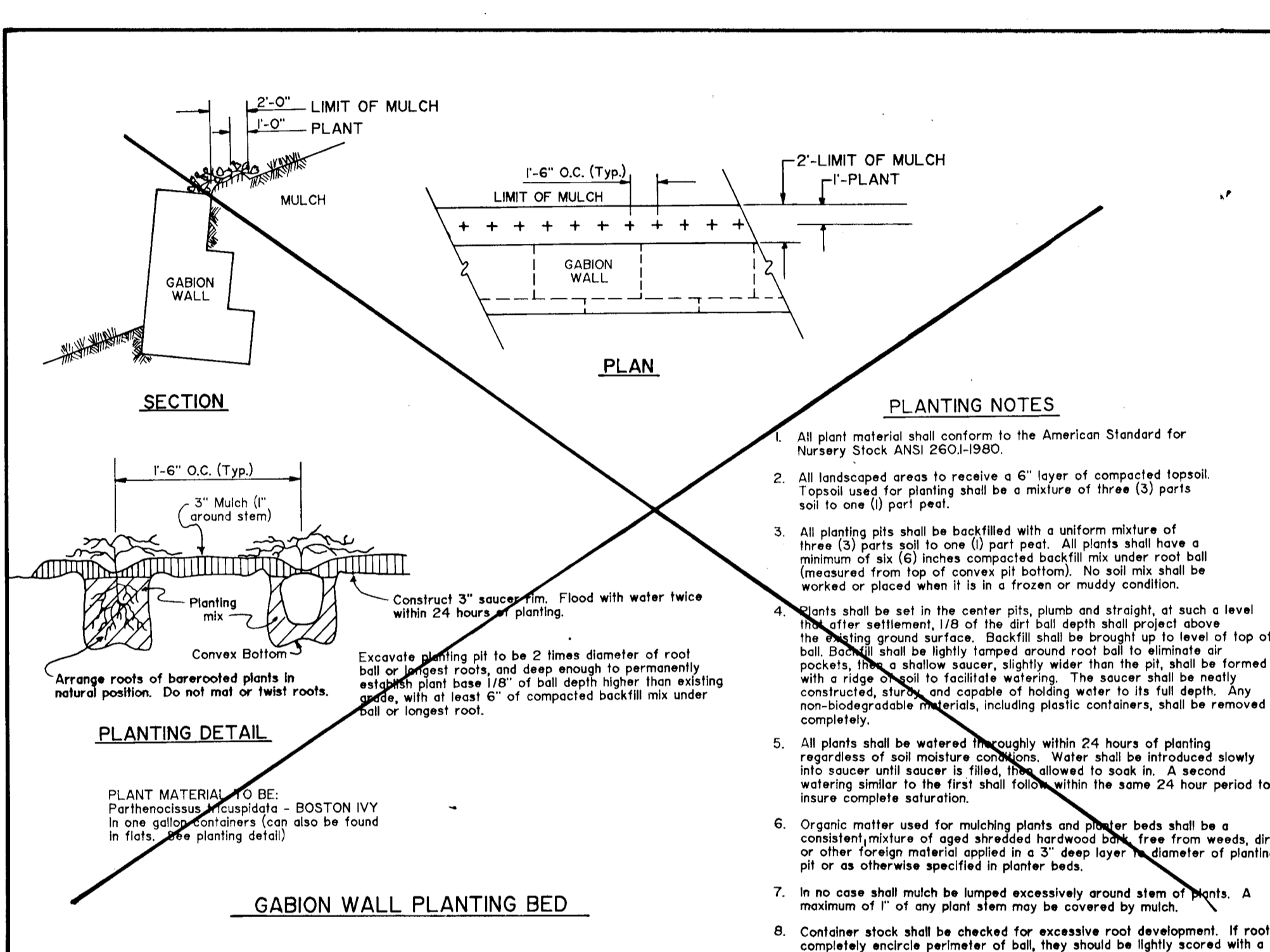
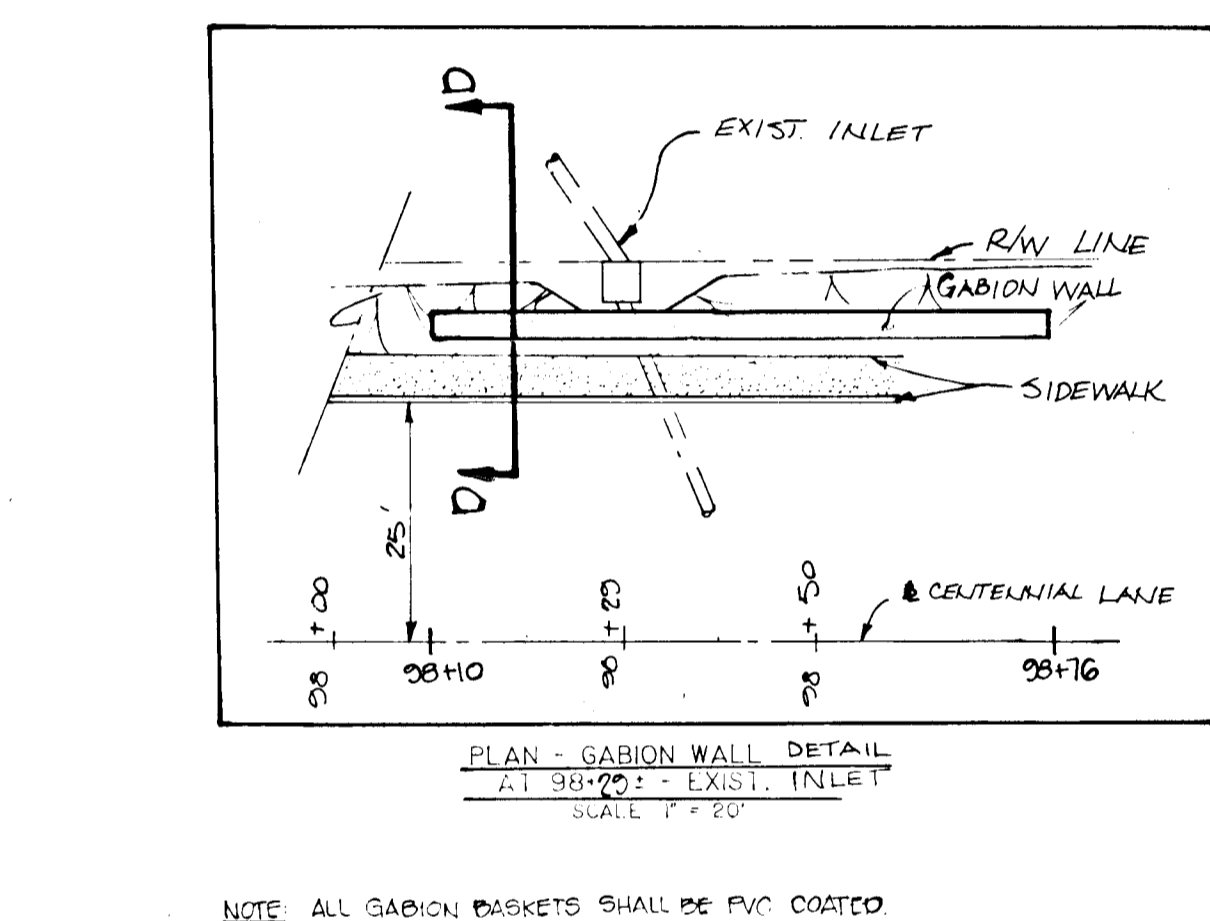
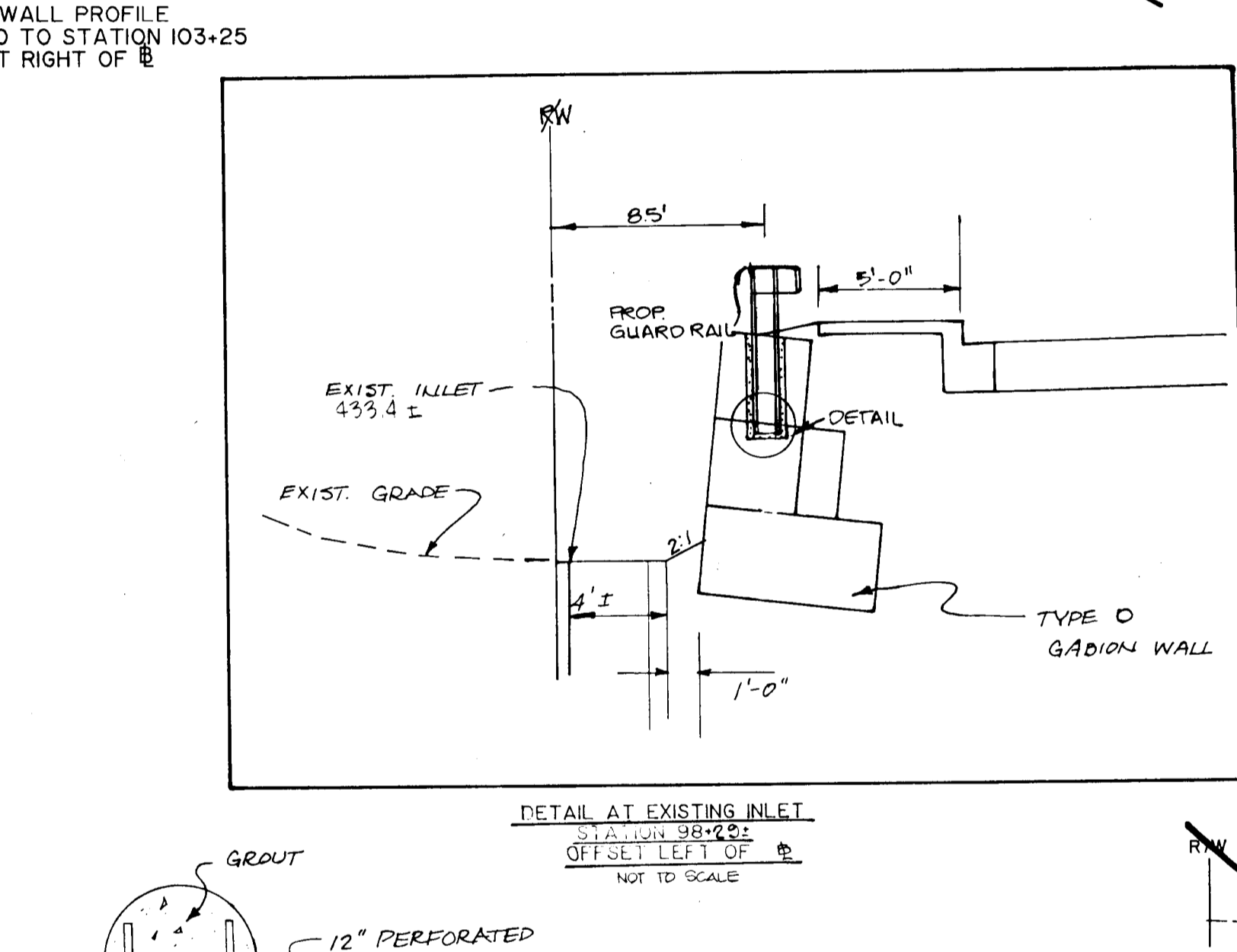
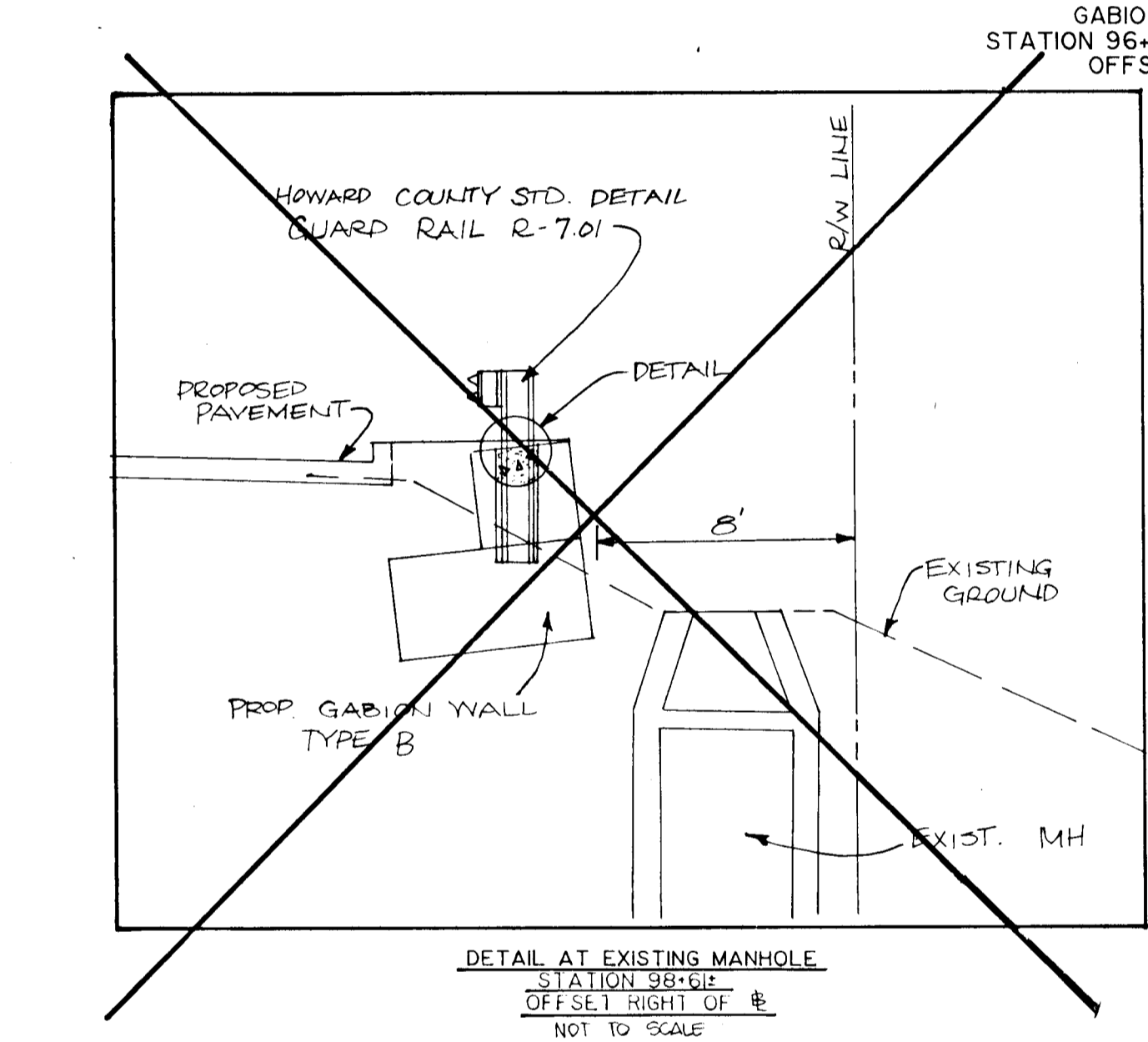
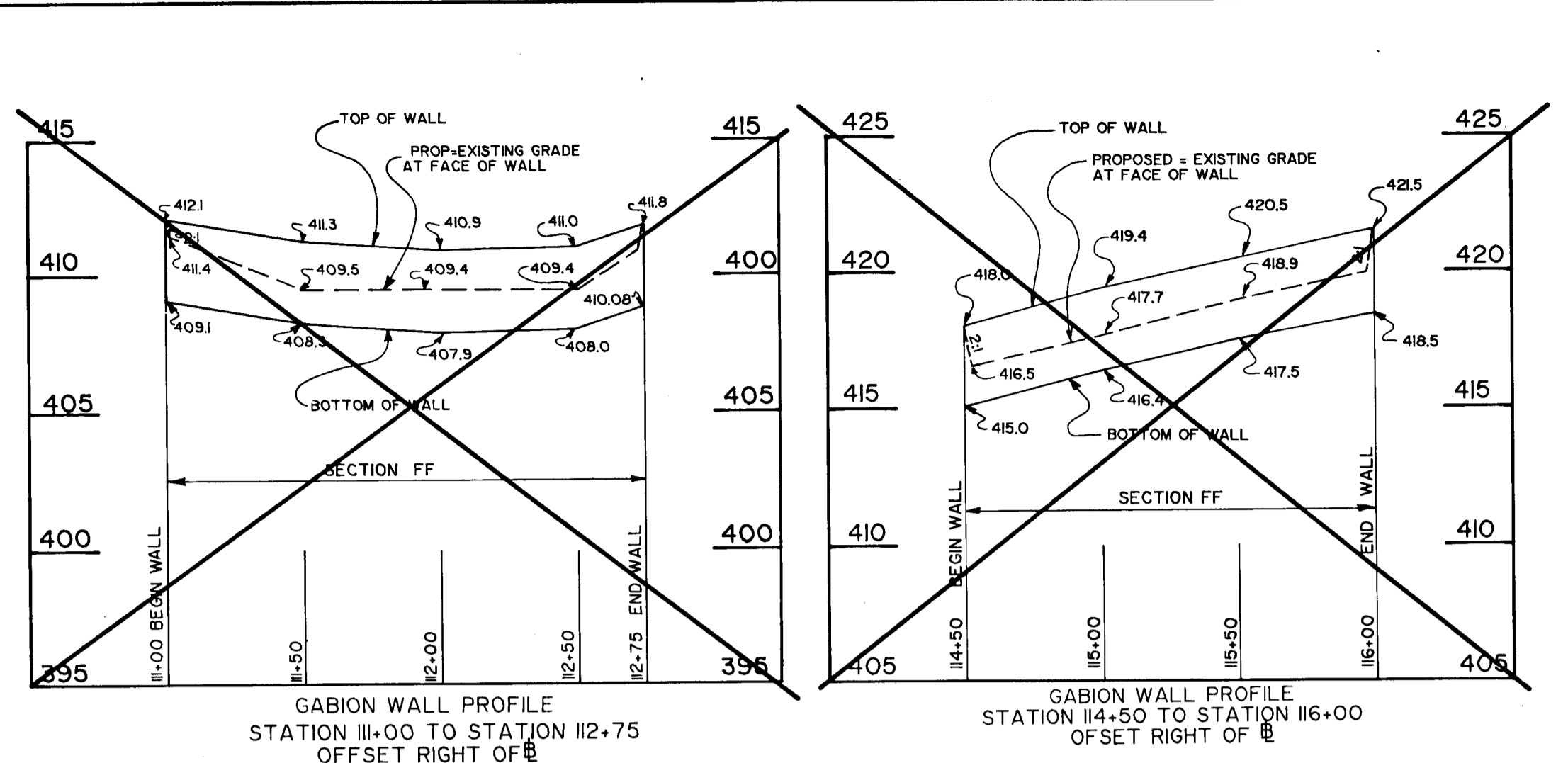
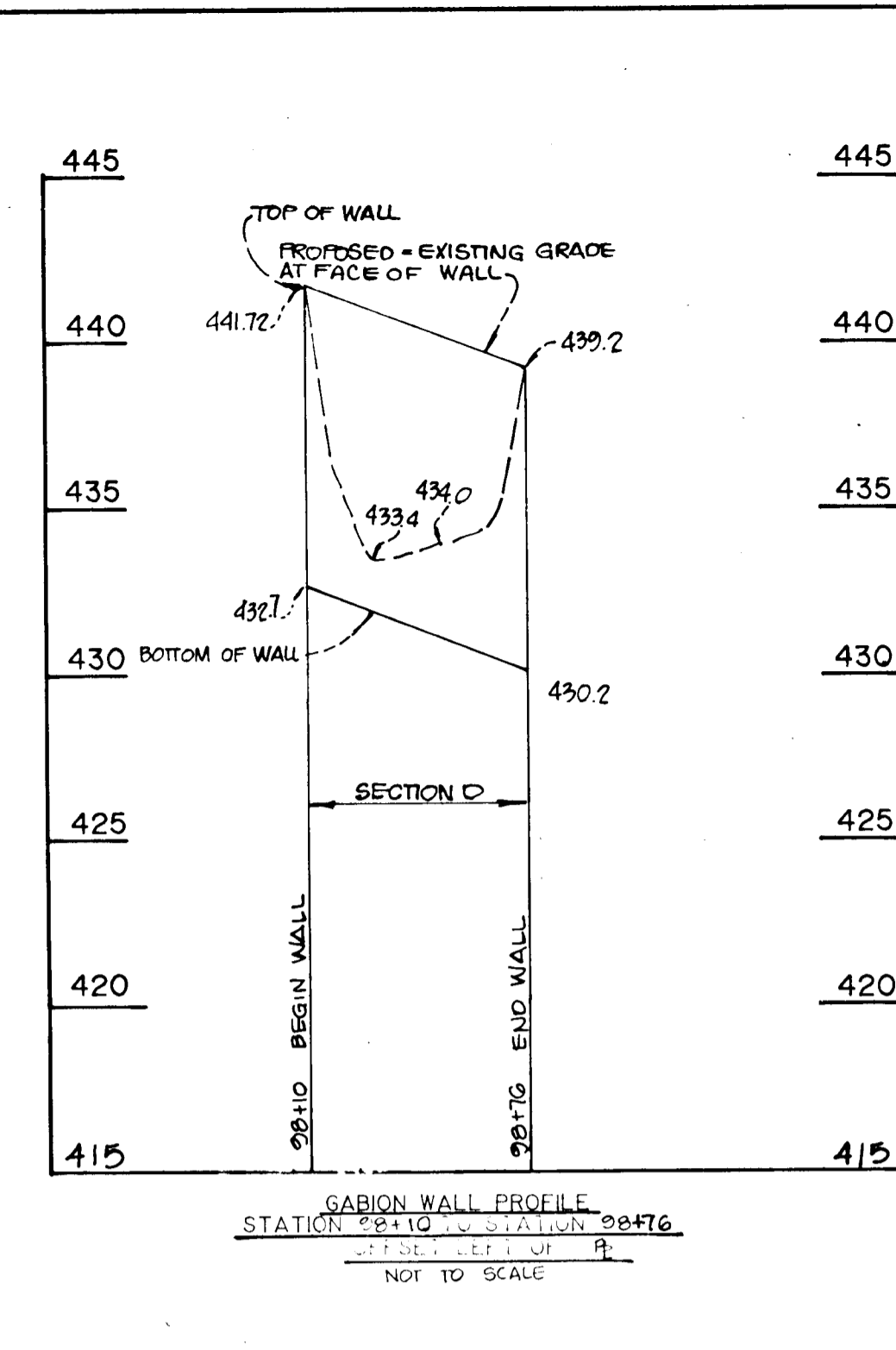
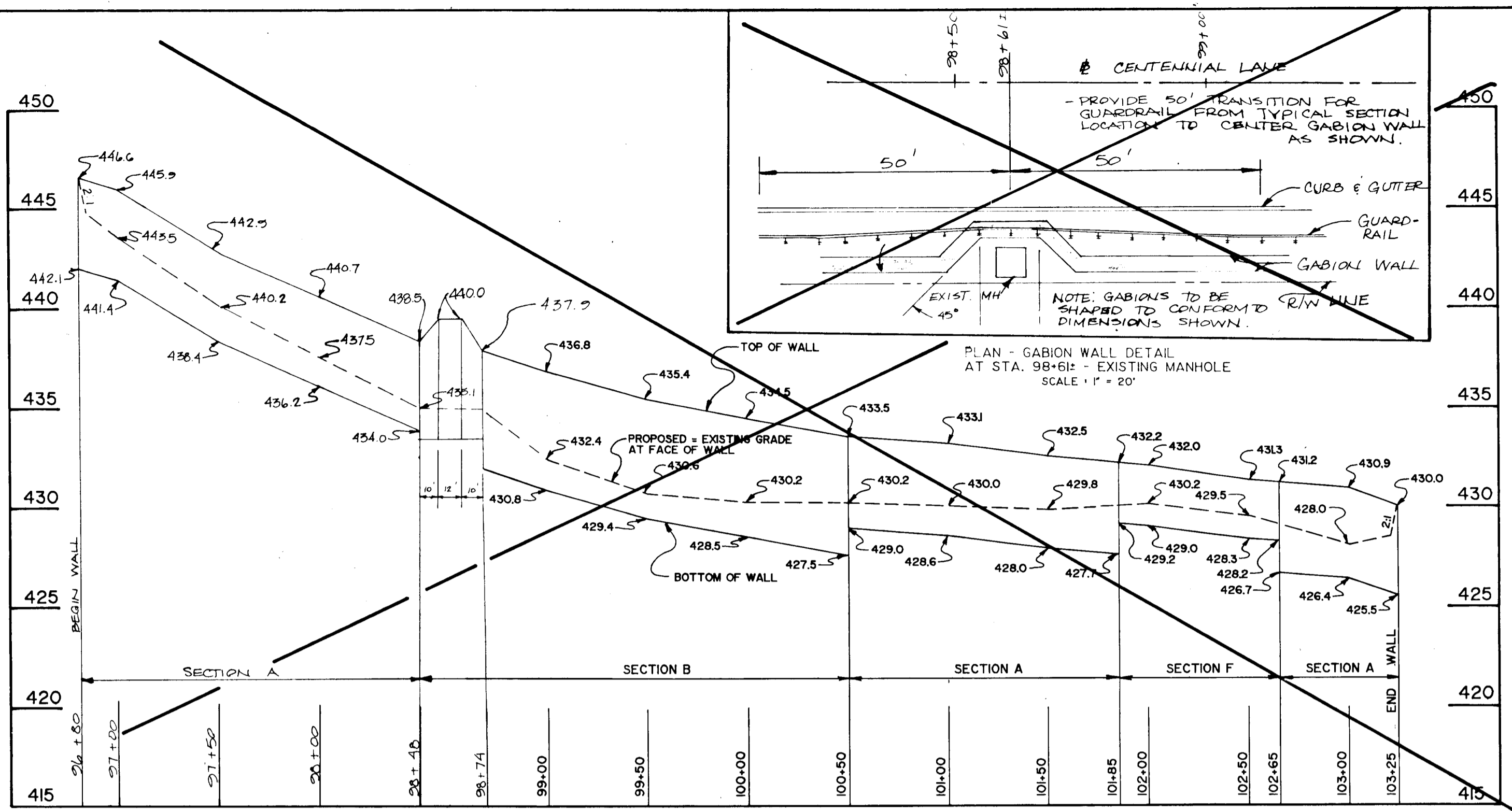


DES: JEM/KAM	KAM	1	Eliminate Watermain Relocation	JAN 92
DRN: STAFF				
CHK: JEM				
DATE: 10/91	BY	NO.	REVISION	DATE

CENTENNIAL LANE
 INTERSECTING STREETS
 PROFILES

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015-III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

PROFILE SCALE: 5" = 8' 50"
 SHEET 12 OF 27



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

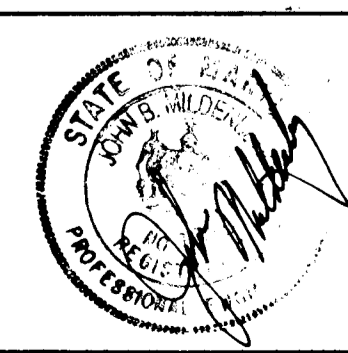
[Signature] 12/2/19
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 12/2/19
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 12/2/19
CHIEF, BUREAU OF HIGHWAYS DATE

MILDENBERG,
MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-2350
(301) 461-0078 D.C. Metro: (301) 621-5768



DES:	JBM				
DRN:	LJG				
CHK:	JBM				
DATE:	10/31				
BY:	NO.	REVISION	DATE	600' SCALE MAP NO.	BLOCK NO.

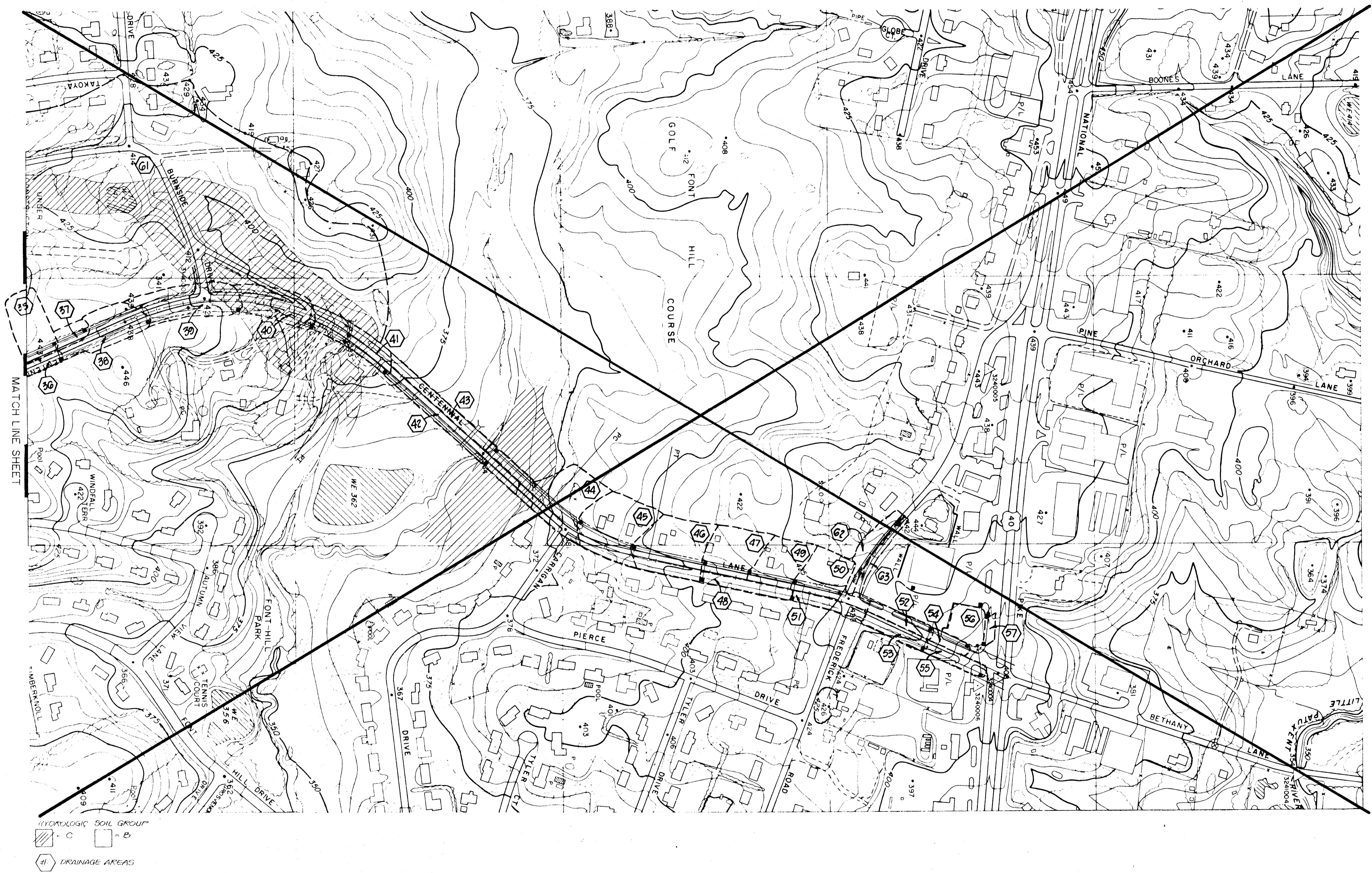
GABION WALL PROFILES & DETAILS
CENTENNIAL LANE

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA. 136+00
CAPITAL PROJECT J-4015- III
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

PROFILE SCALE: 5' & 50'

SHEET 11 OF 27

SCALE: 1" = 200'
TRUE NORTH



AREA TABULATION FOR DRAINAGE AREA MAP

DA	TOTAL ACRES	AREA IN ACRES		COMPOSITE C-FACTOR	% OF IMPERVIOUS AREA	ZONING
		"B"	"C"			
1	0.67	---	0.67	0.72	70%	
2	1.22	---	1.22	0.53	40%	
3	0.66	0.33	0.33	0.53	40%	
4	0.46	0.23	0.23	0.72	70%	
5	0.14	0.14	---	0.72	70%	
6	0.29	0.19	0.10	0.68	60%	
7	0.50	0.10	0.40	0.44	15%	
8	0.65	---	0.65	0.44	15%	
9	0.25	0.25	---	0.68	60%	
10	0.57	0.17	0.40	0.44	15%	
11	0.57	0.40	0.17	0.44	15%	
12	0.29	0.29	---	0.68	60%	
13	0.61	0.61	---	0.46	30%	
14	0.25	0.25	---	0.68	60%	
15	0.47	0.47	---	0.68	60%	
16	0.78	0.35	0.43	0.54	20%	
17	0.82	0.42	0.40	0.54	20%	
18	0.70	0.70	---	0.46	30%	
19	0.51	0.26	0.25	0.56	55%	
20	0.51	0.26	0.25	0.56	55%	
21	0.51	0.51	---	0.56	55%	
22	0.51	0.51	---	0.56	55%	
23	0.41	0.41	---	0.49	33%	
24	0.36	0.36	---	0.56	55%	
25	0.62	0.62	---	0.49	33%	
26	0.33	0.33	---	0.55	60%	
27	0.79	0.79	---	0.38	11%	
28	0.44	0.44	---	0.54	20%	
29	0.82	0.82	---	0.38	11%	
30	0.88	0.88	---	0.35	10%	
32	0.86	0.86	---	0.36	12%	
33	0.25	0.25	---	0.81	80%	
34	0.72	0.72	---	0.38	12%	
35	0.72	0.72	---	0.36	12%	
36	0.23	0.23	---	0.81	80%	
37	0.17	0.17	---	0.55	45%	
38	0.77	0.77	---	0.57	45%	
39	1.03	0.78	0.25	0.57	45%	
40	0.88	---	0.88	0.57	45%	
41	0.44	---	0.44	0.57	45%	
42	0.69	0.49	0.20	0.71	80%	
43	0.84	0.29	0.55	0.57	45%	
44	1.24	1.10	0.14	0.44	25%	
45	1.32	1.32	---	0.44	25%	
46	1.52	1.52	---	0.44	25%	
47	0.88	0.88	---	0.34	14%	
48	0.32	0.32	---	0.72	80%	
49	0.88	0.88	---	0.34	14%	
50	1.17	1.17	---	0.34	14%	
51	0.26	0.26	---	0.72	80%	
52	0.28	0.28	---	0.92	95%	
53	0.25	0.25	---	0.7	85%	
54	0.19	0.19	---	0.82	95%	
55	0.21	0.21	---	0.77	85%	
56	0.17	0.17	---	0.16	0%	
57	0.13	0.13	---	0.86	95%	
58	29.42	14.71	14.71	0.45	---	
59	29.42	29.42	29.42	0.45	---	
60	11.52	11.42	1.10	0.42	---	
61	38.08	31.73	6.35	0.29	---	
62	0.41	0.41	---	0.45	28%	
63	0.19	0.19	---	0.68	50%	

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Lee 12/1/91
Elizabeth Anderson-Cole 12/2/91

William R. Raby 12-3-91
Lawrence W. Wallace 12/4/91

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

3300 Nevils Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(701) 461-0020 D.C. Metro (301) 621-5768



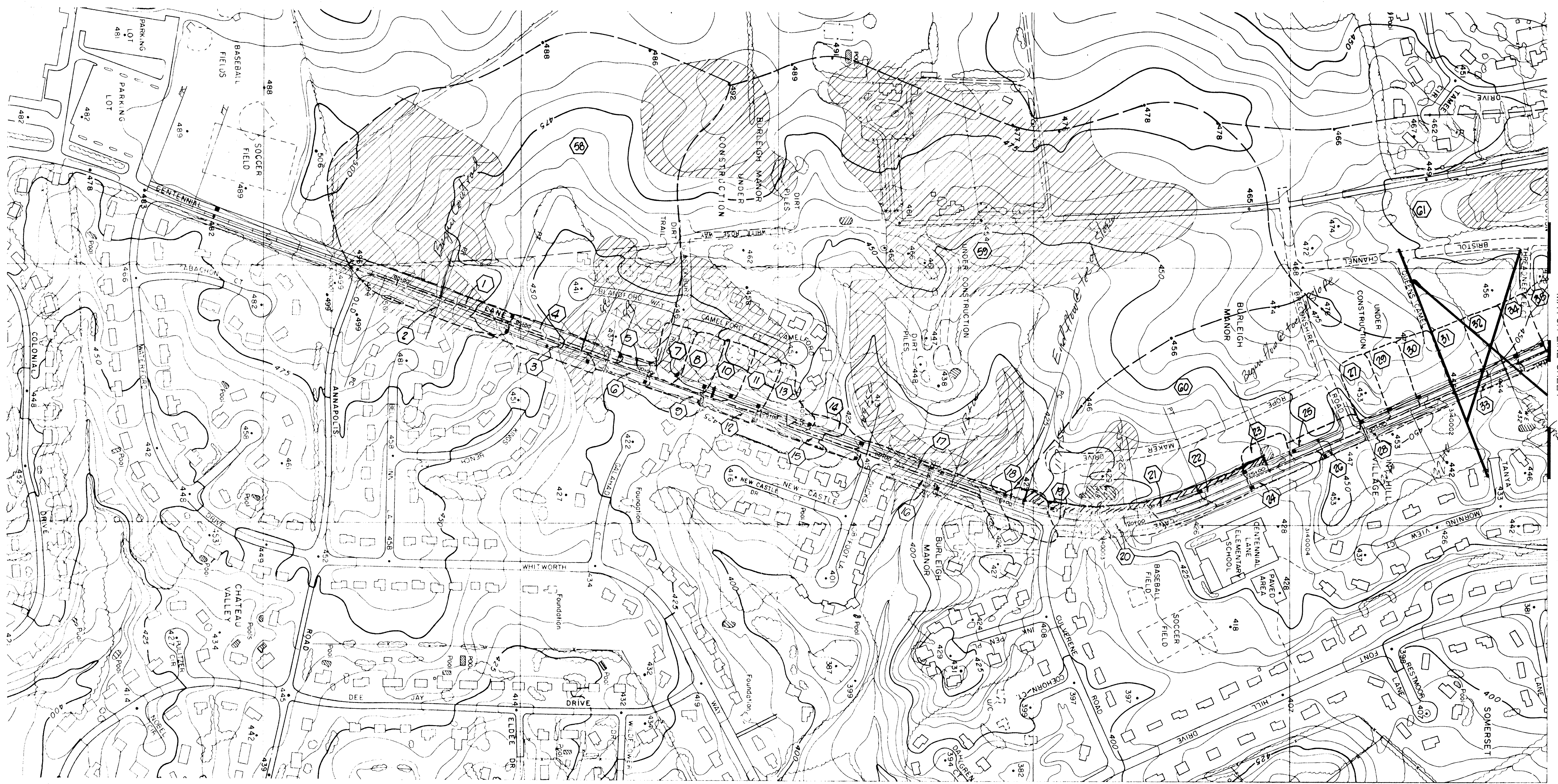
DES: KAM					
DRN: LJA					
CHK: JJA					
DATE: 10/21	BY: NO	REVISION	DATE	600 SCALE MAP NO.	BLOCK NO.

DRAINAGE AREA MAP
STA. 137+50 TO END
CENTENNIAL LANE

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA. 136+00
CAPITAL PROJECT J-4015-III
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 12 OF 27

SCALE: 1" = 200'
TRUE NORTH

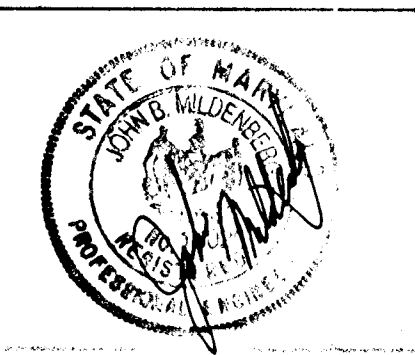


HYDROLOGIC SOIL GROUP
 A - C B
 # DRAINAGE AREAS

MATCH LINE SHEET

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 James M. ... 12/14/91
 Elizabeth ... 12/14/91
 ... 12/14/91
 ... 12/14/91

MILDENBERG,
 MOCH & ASSOCIATES, INC.
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER

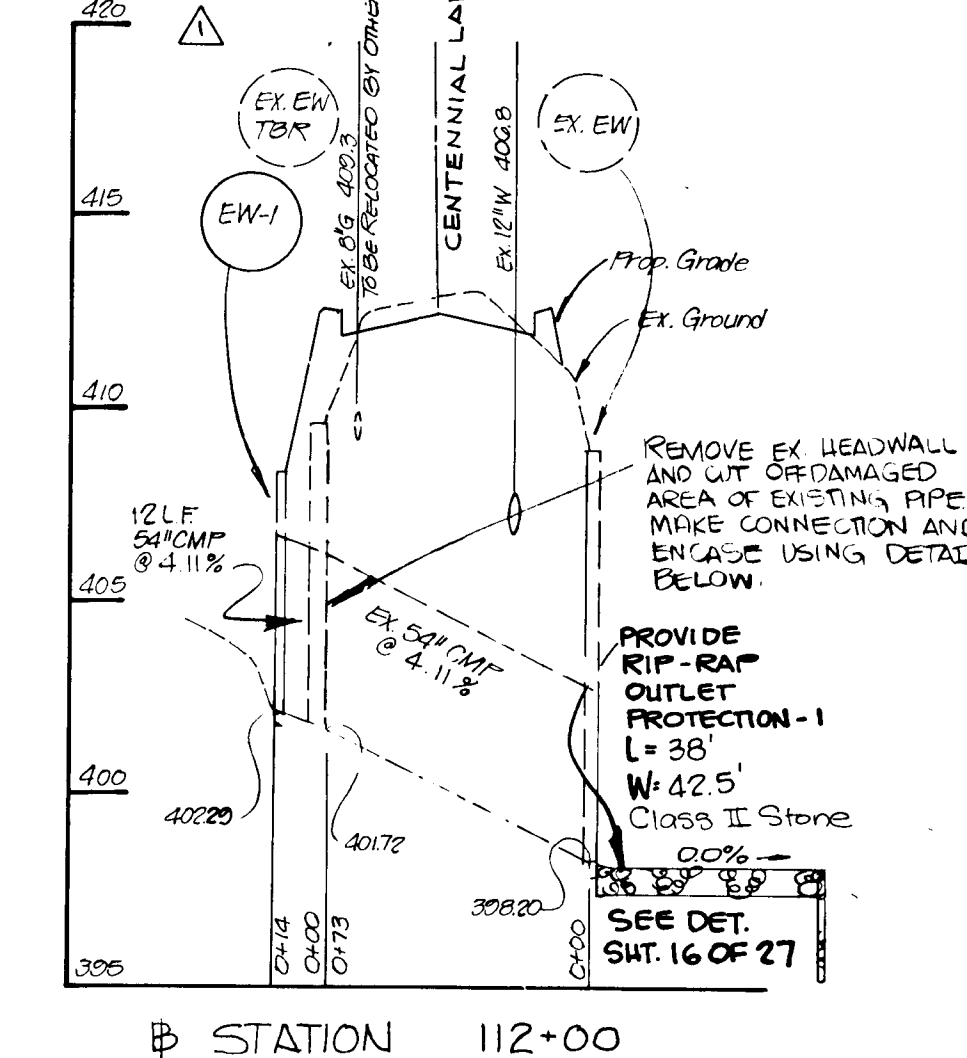
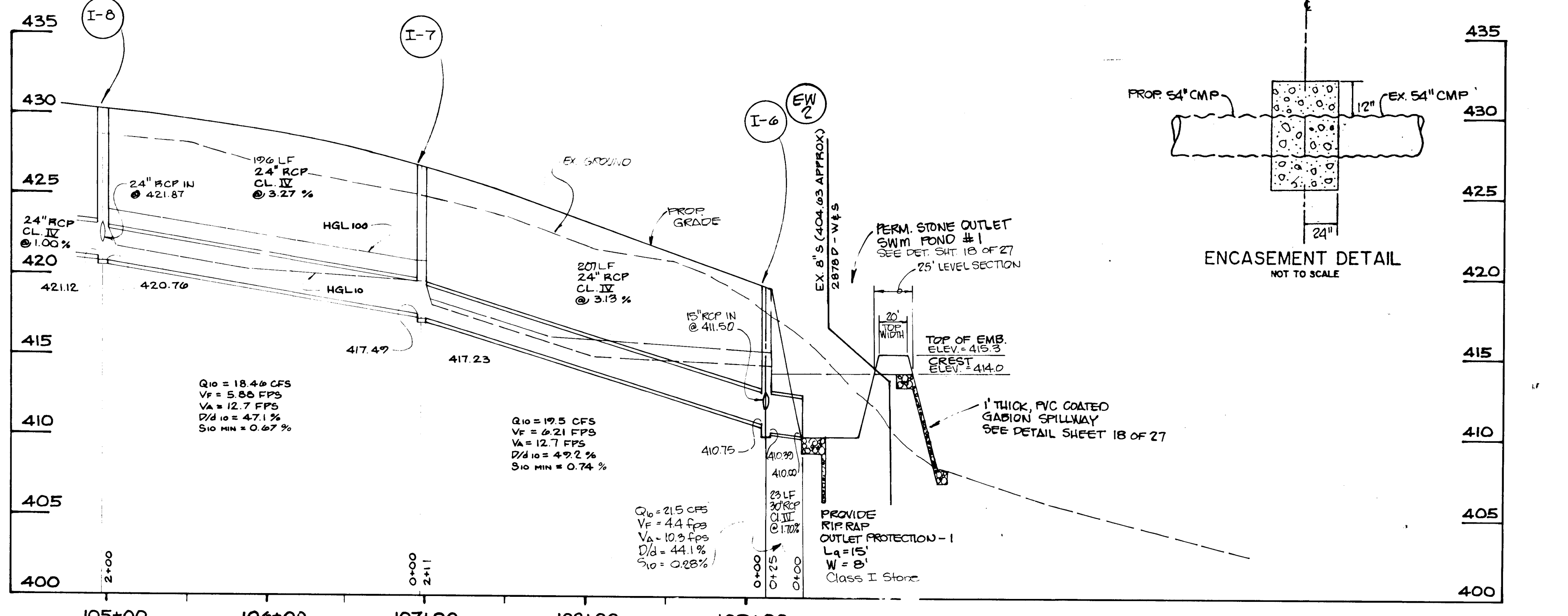
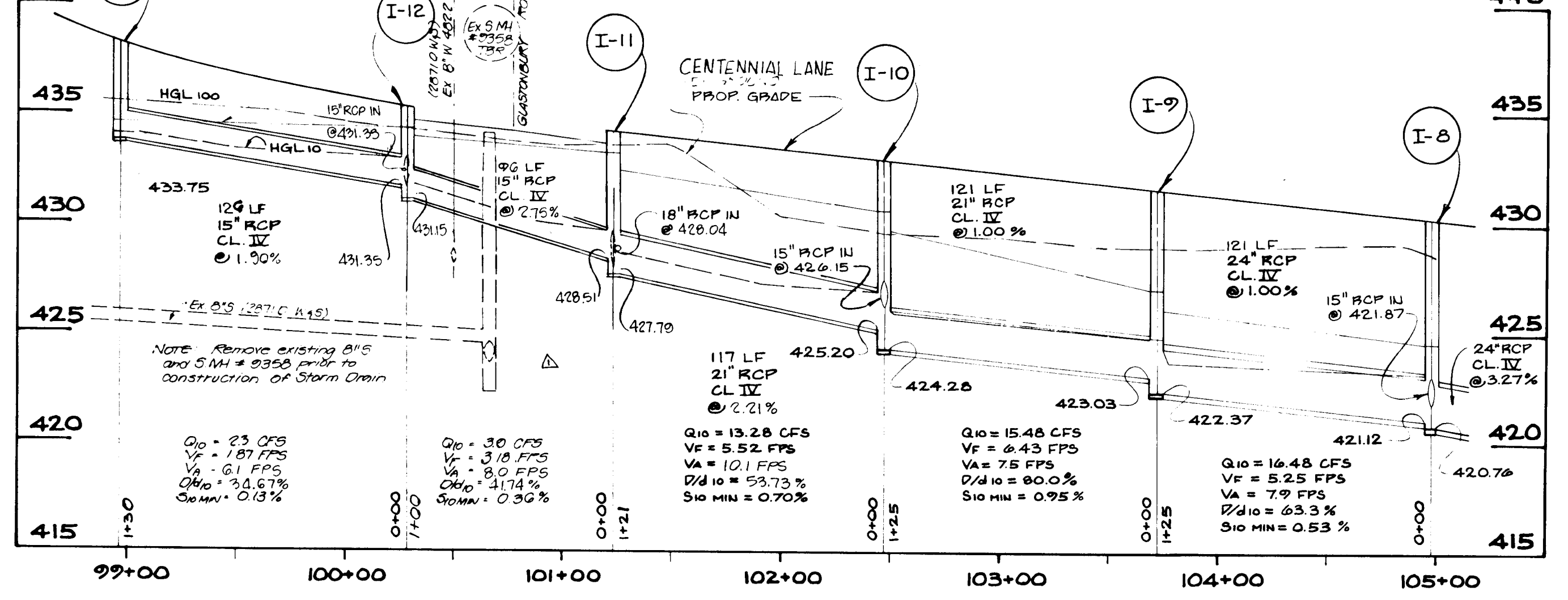
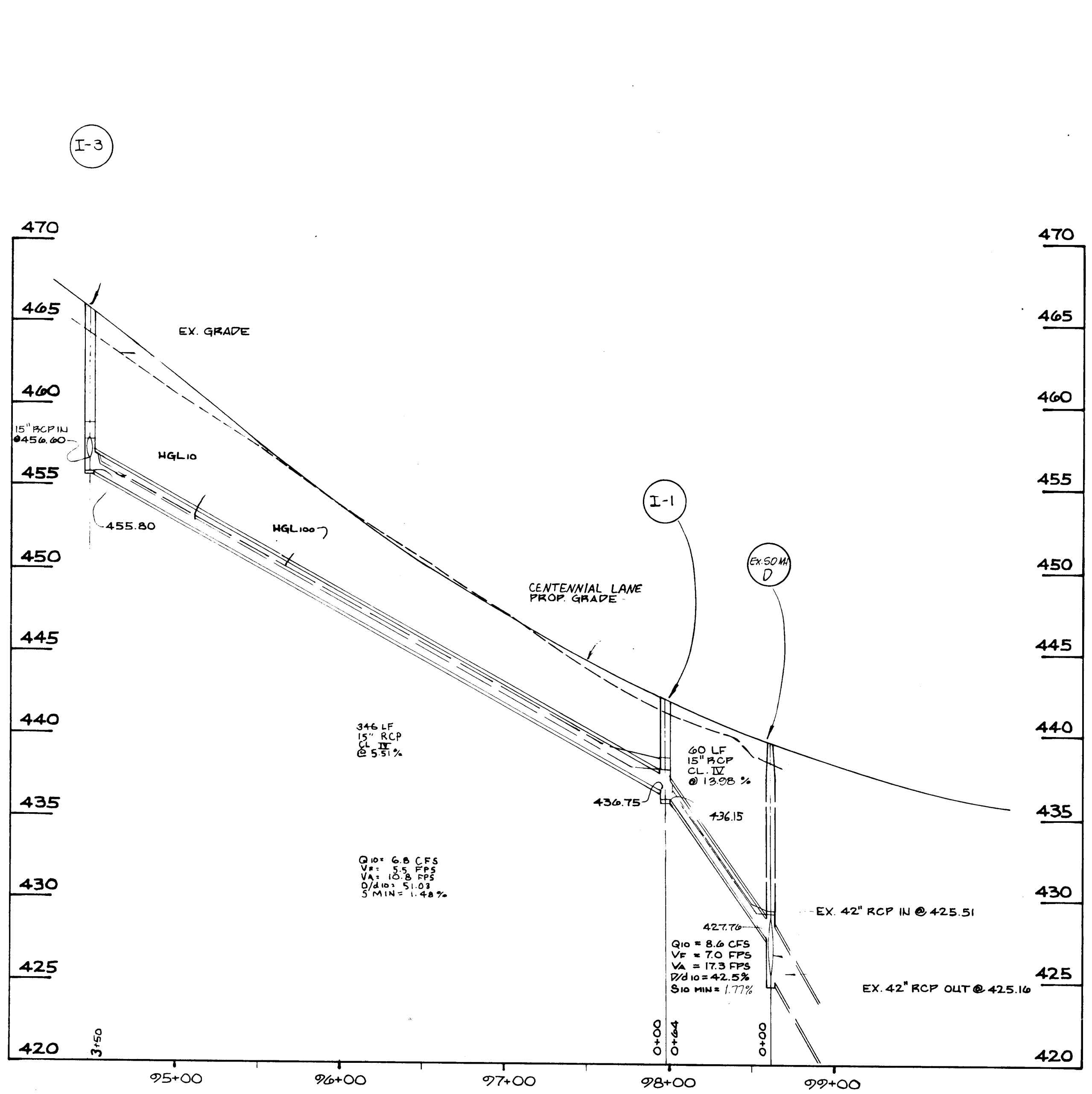
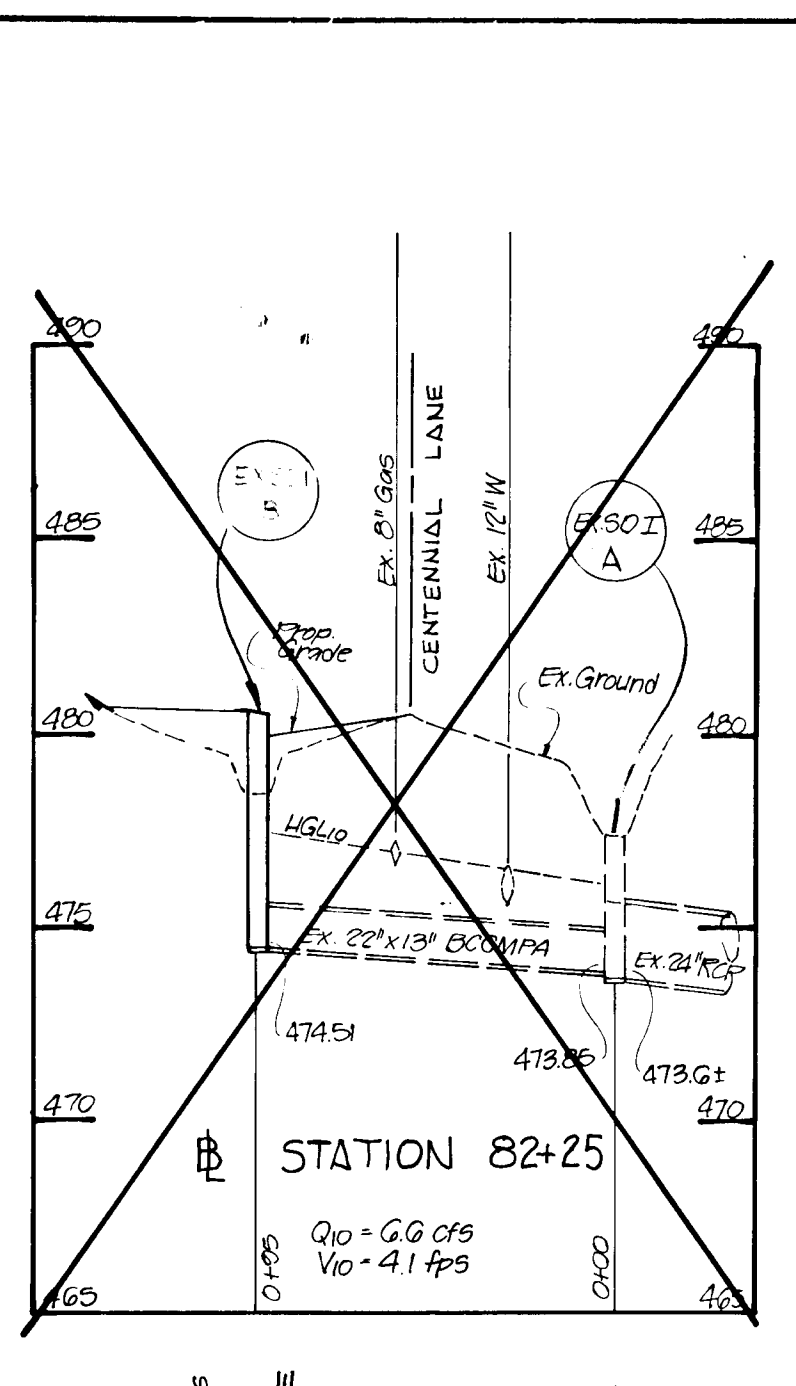
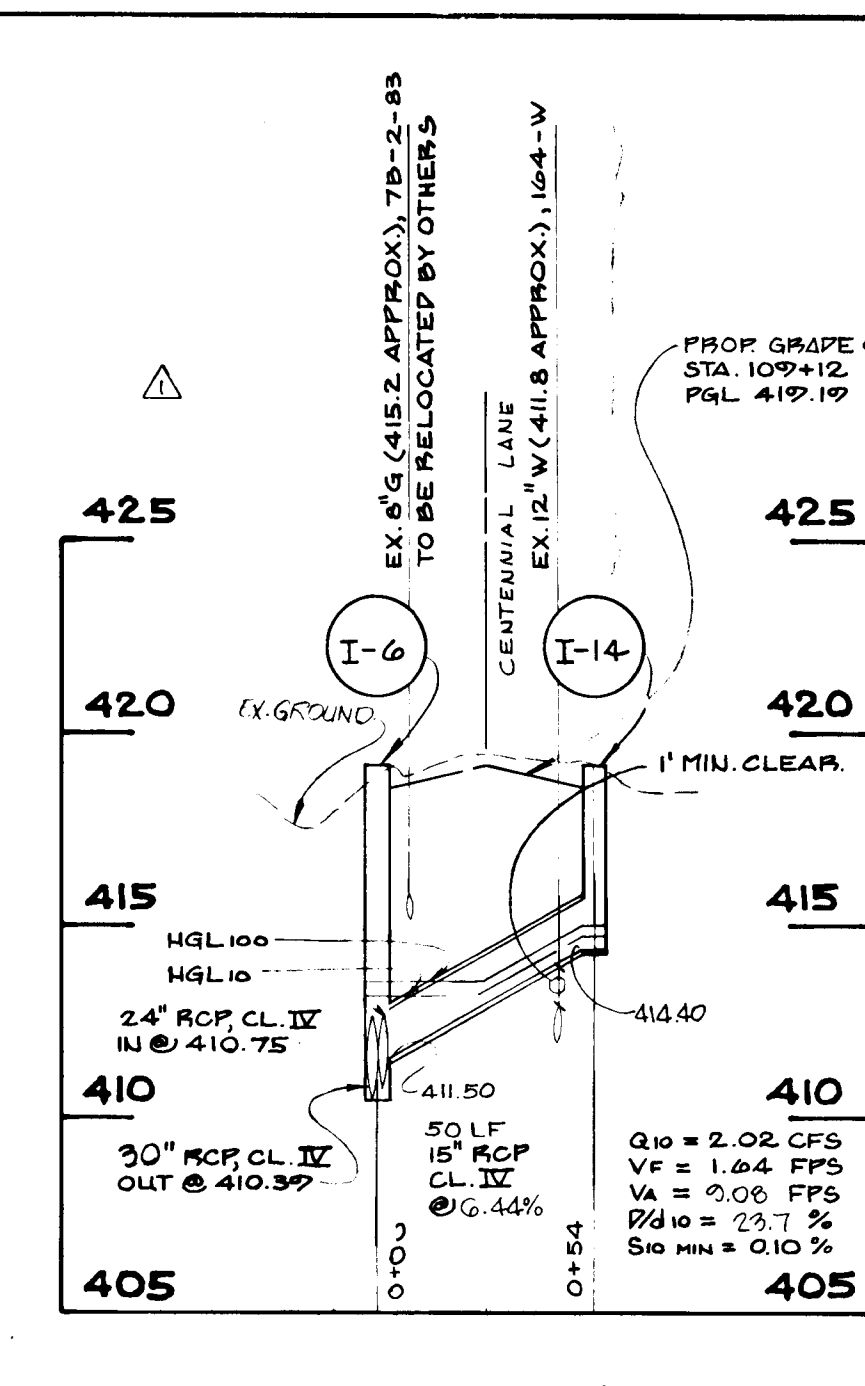
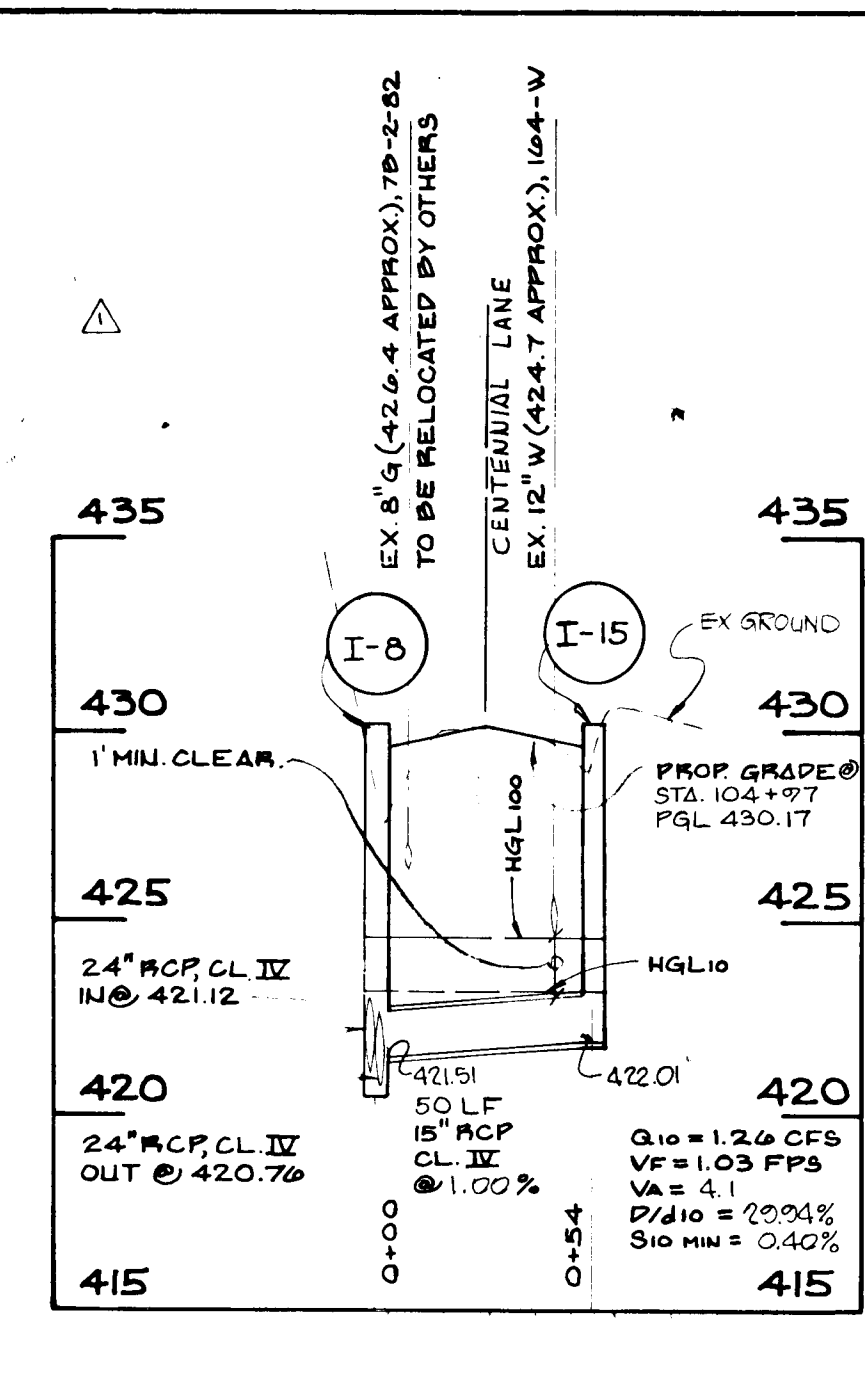
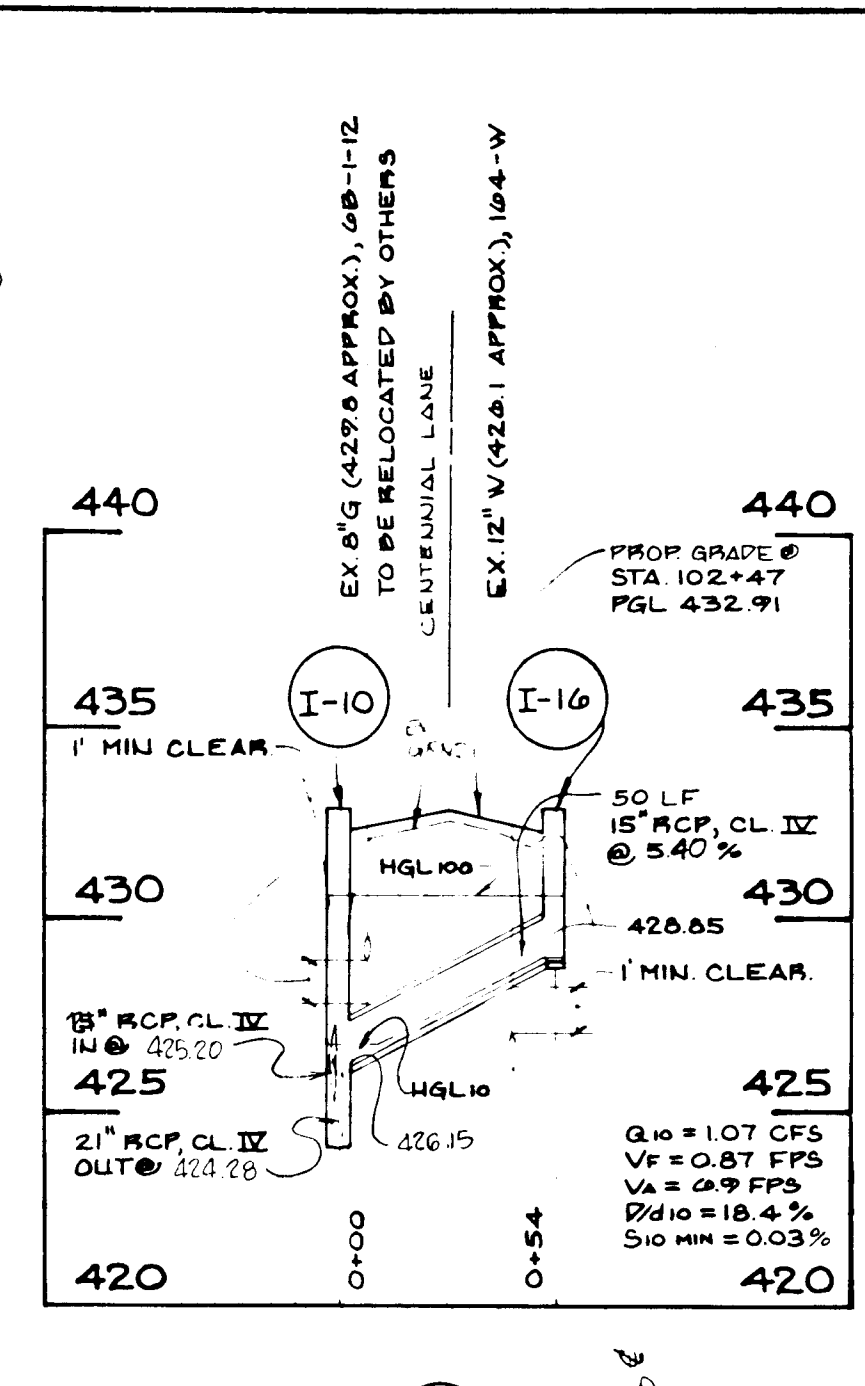
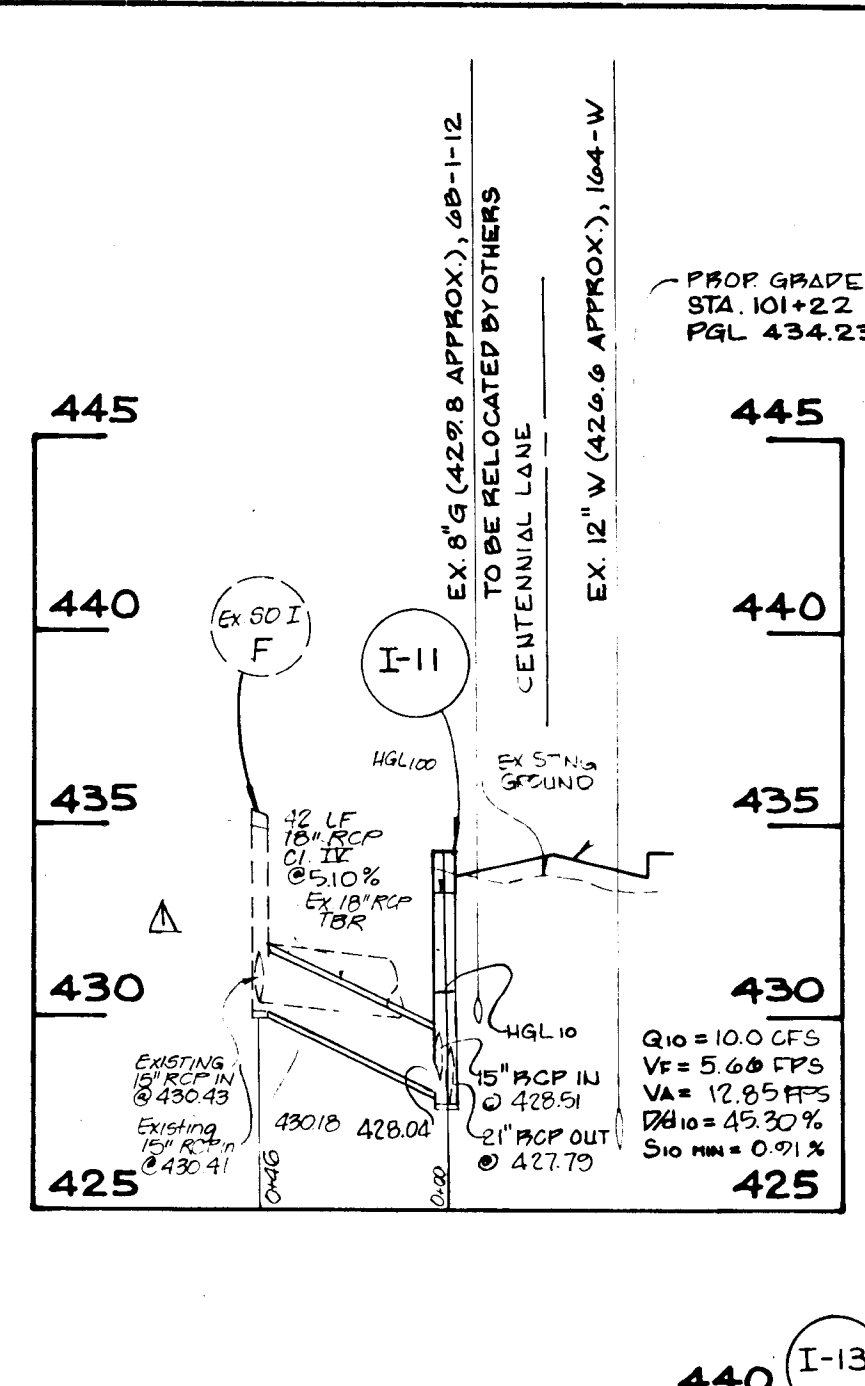
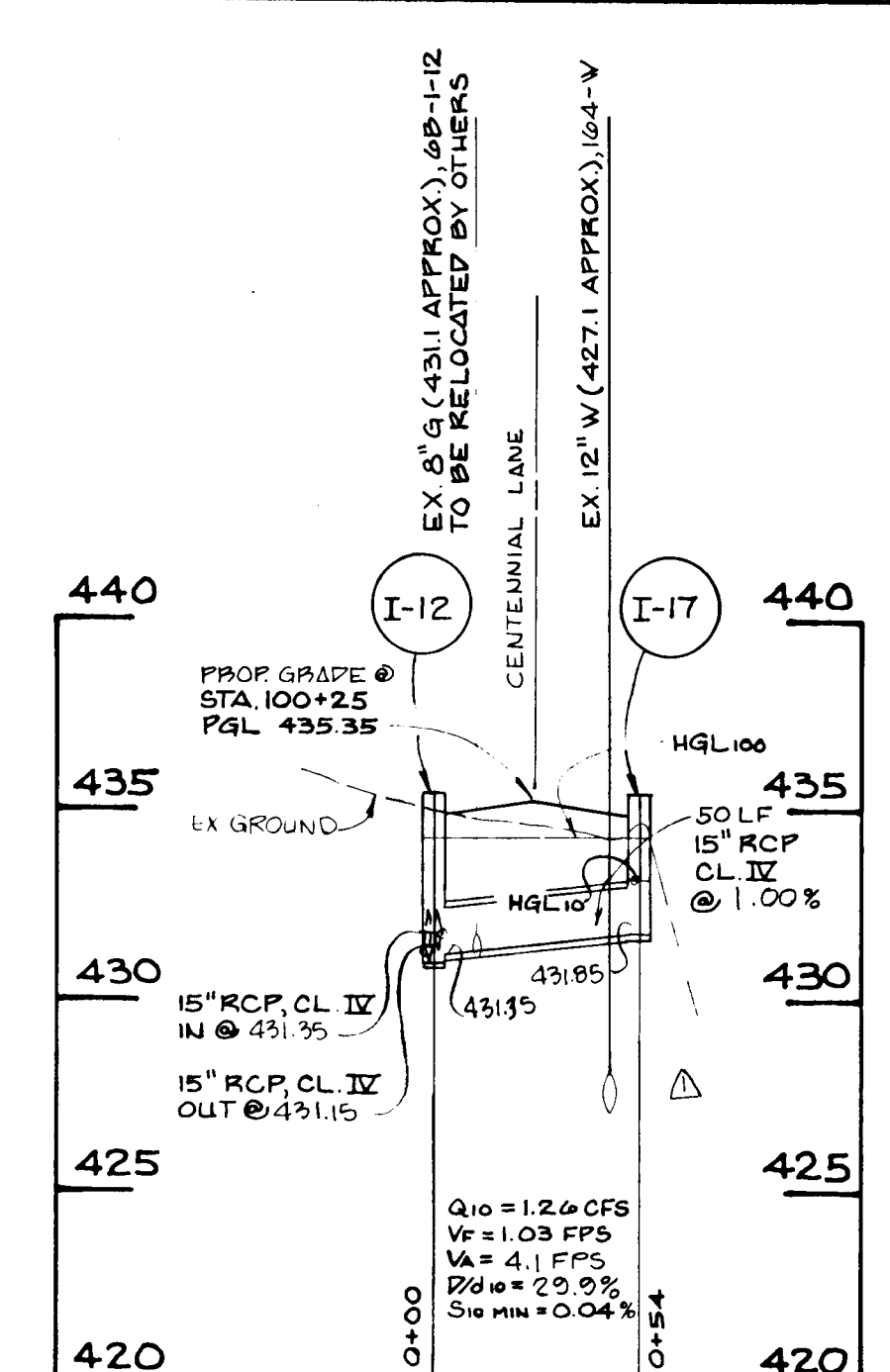
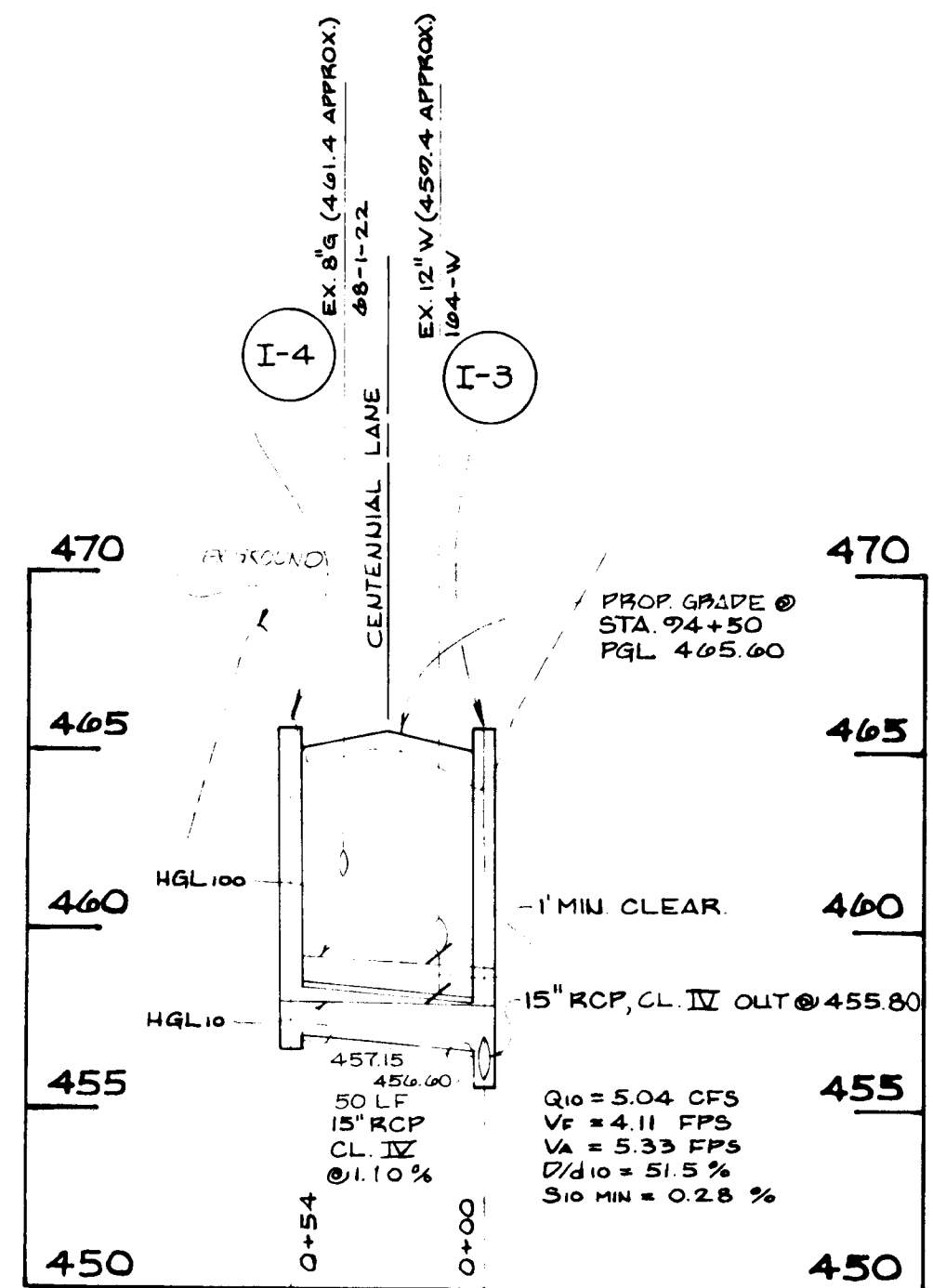


DES. DATE	
DRN. DATE	
CHKD. DATE	
DATE	10/91

DRAINAGE AREA MAP
 STA. 88+00 TO STA. 137+00
 CENTENNIAL LANE

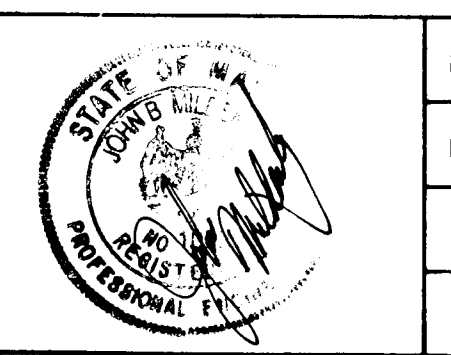
CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015- III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 13 OF 27



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

MILDENBERG, MOCHI & ASSOCIATES, INC.
SURVEYORS • ENGINEERS • PLANNERS
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(301) 461-0078 D.C. Metro: (301) 621-5769

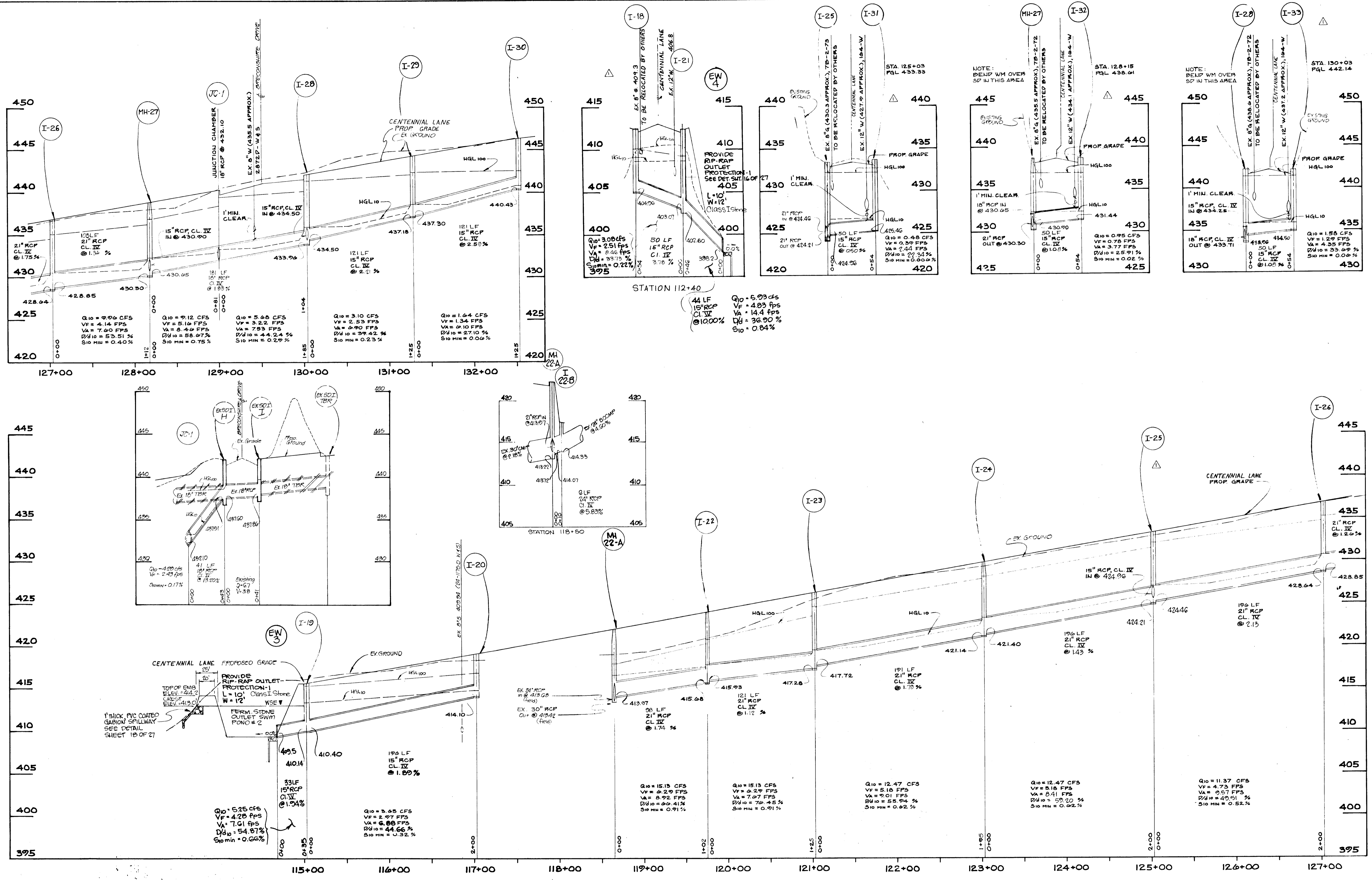


DES: KAM	KAM	Eliminate Watermain Relocation	JAN 22
DRN: JMS			
CHK: JEM			
DATE: 10/21	BY: NO	REVISION	DATE

STORM DRAIN PROFILES
STA. 94+50 TO STA. 112+00
CENTENNIAL LANE

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA. 136+00
CAPITAL PROJECT J-4015-III
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

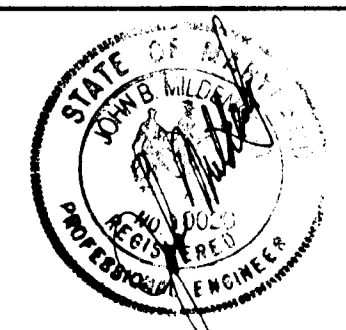
SCALE AS SHOWN
SHEET 14 OF 27



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. ... 12/14/91
DIRECTOR OF PUBLIC WORKS DATE
Richard Anderson, P.E. 12/14/91
CHIEF, BUREAU OF HIGHWAYS DATE

MILDENBERG,
MOCHI & ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
13011 461-0076 D.C. Mem: 13011 621-5782



DES: KAM	KAM	1	Eliminate water relocation	STN 02
DRN: LWJ/JMS				
CHK: JBM				
DATE: 10/1/91	BY: NO.	REVISION	DATE	

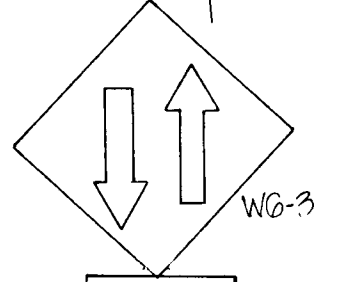
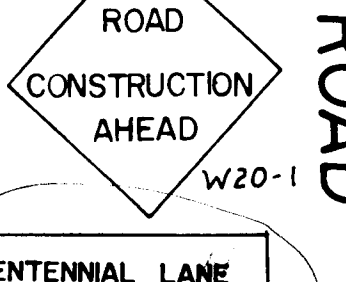
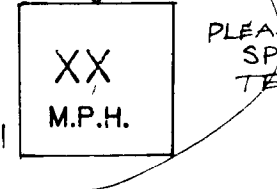
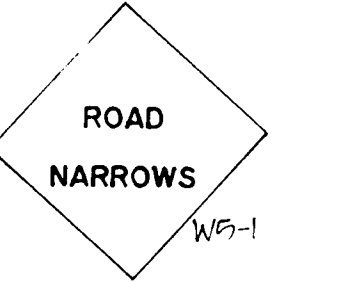
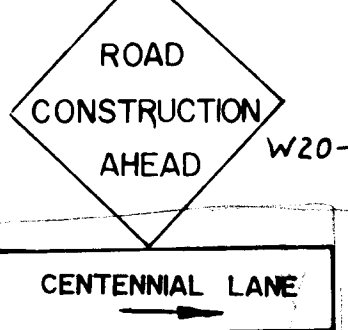
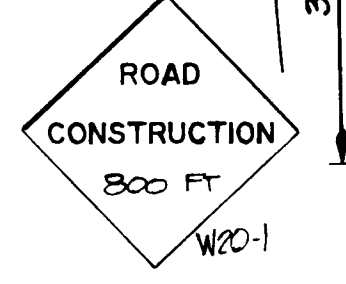
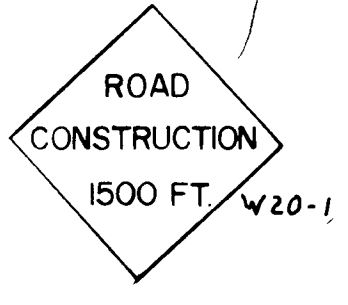
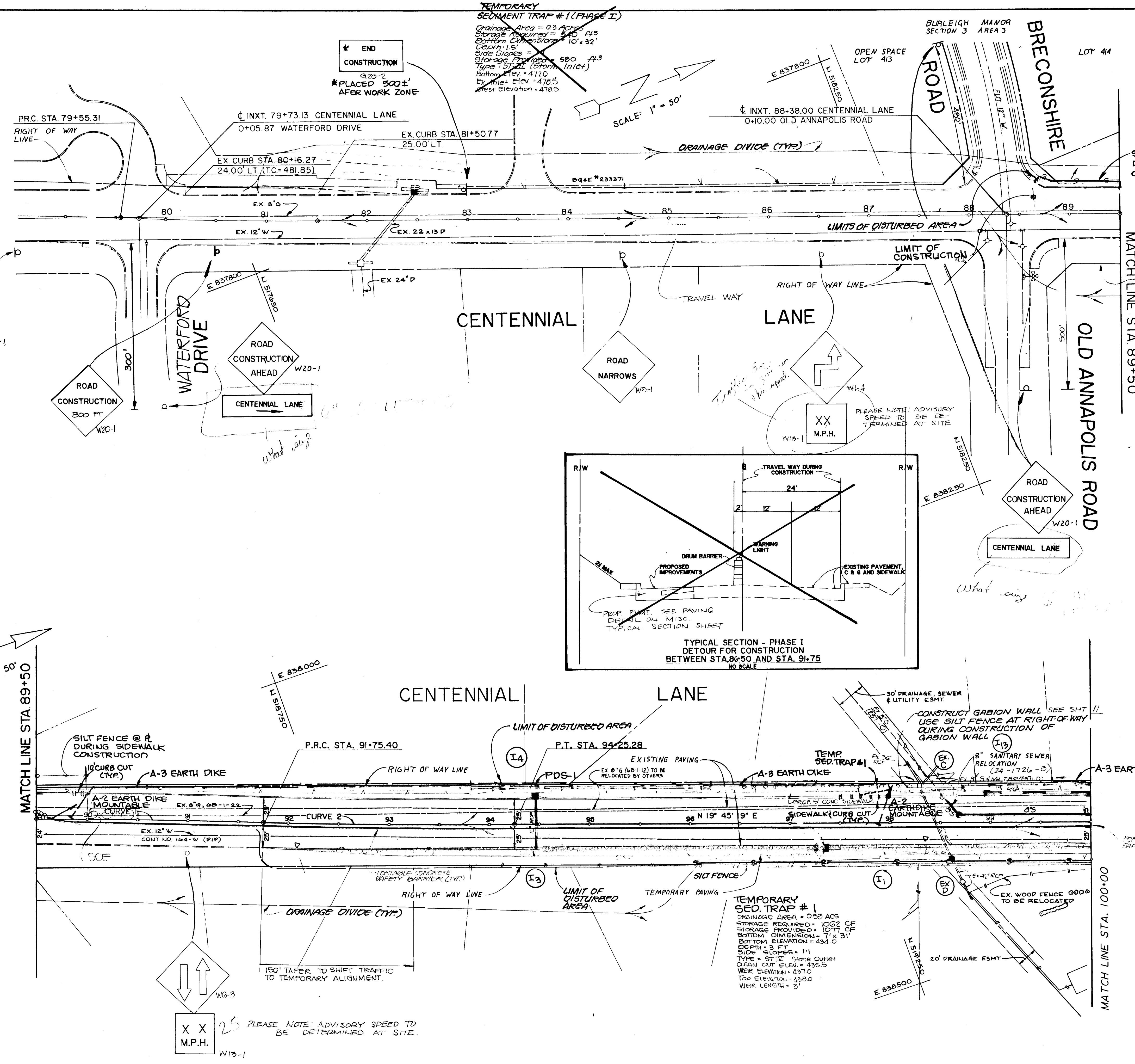
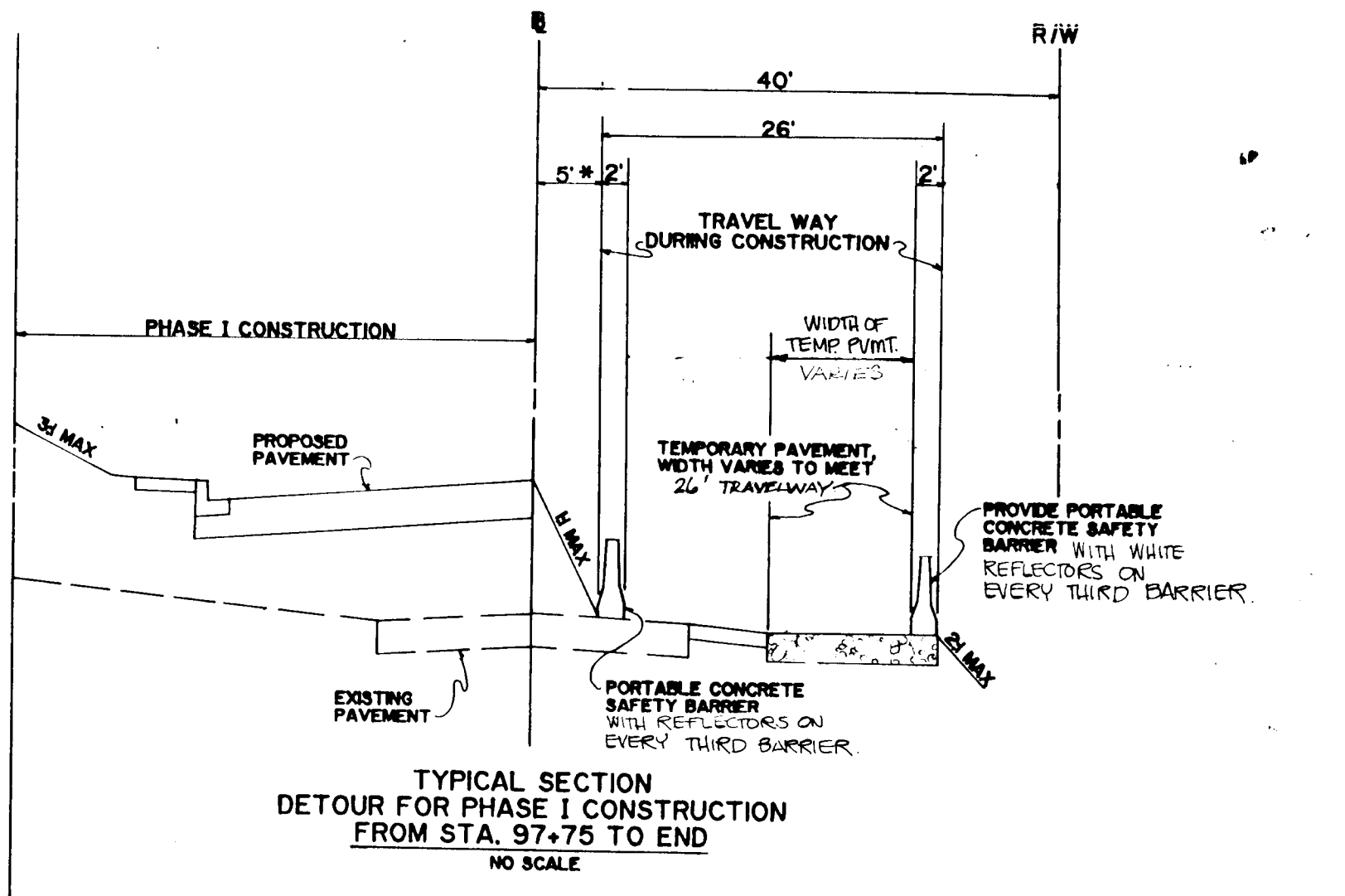
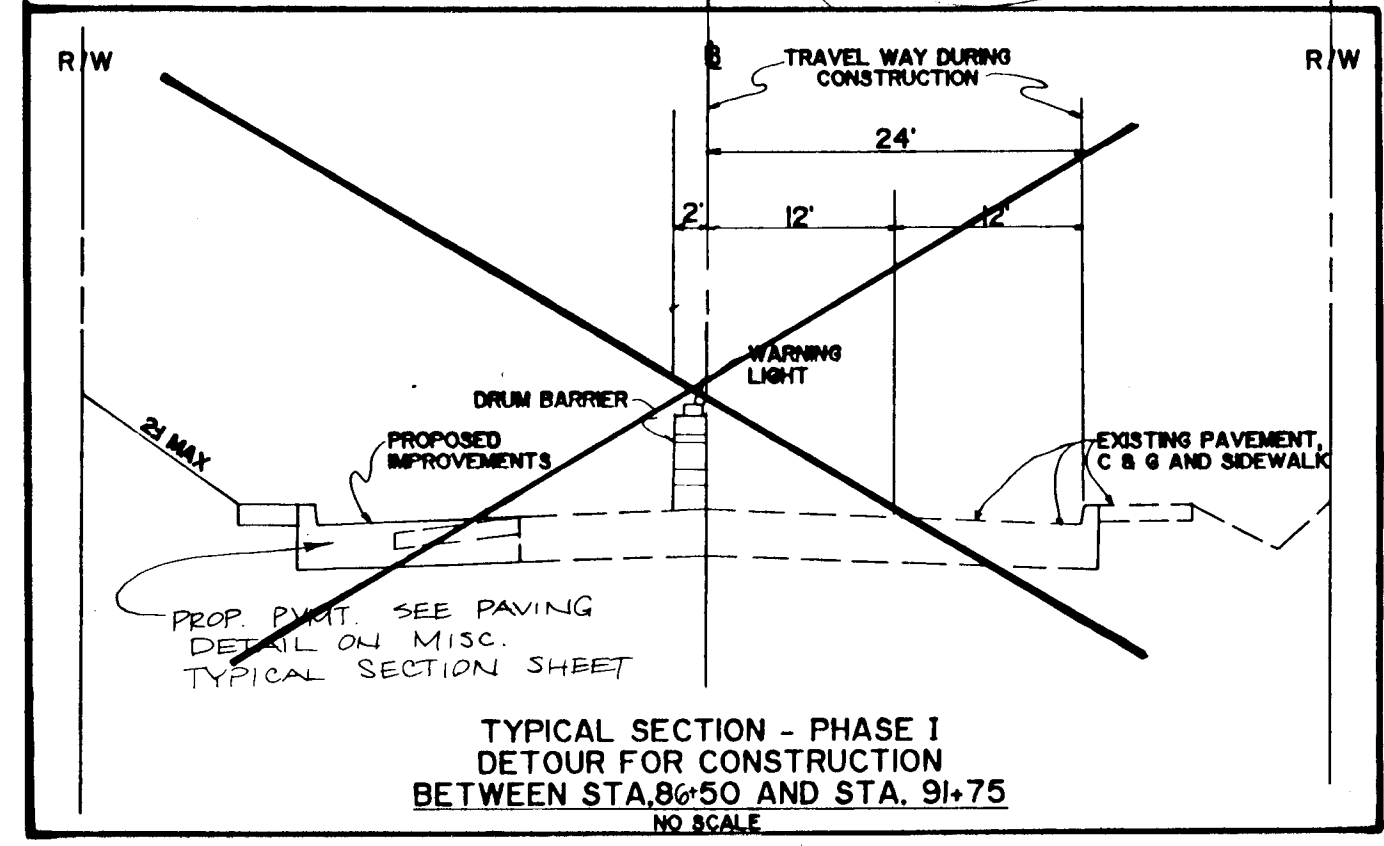
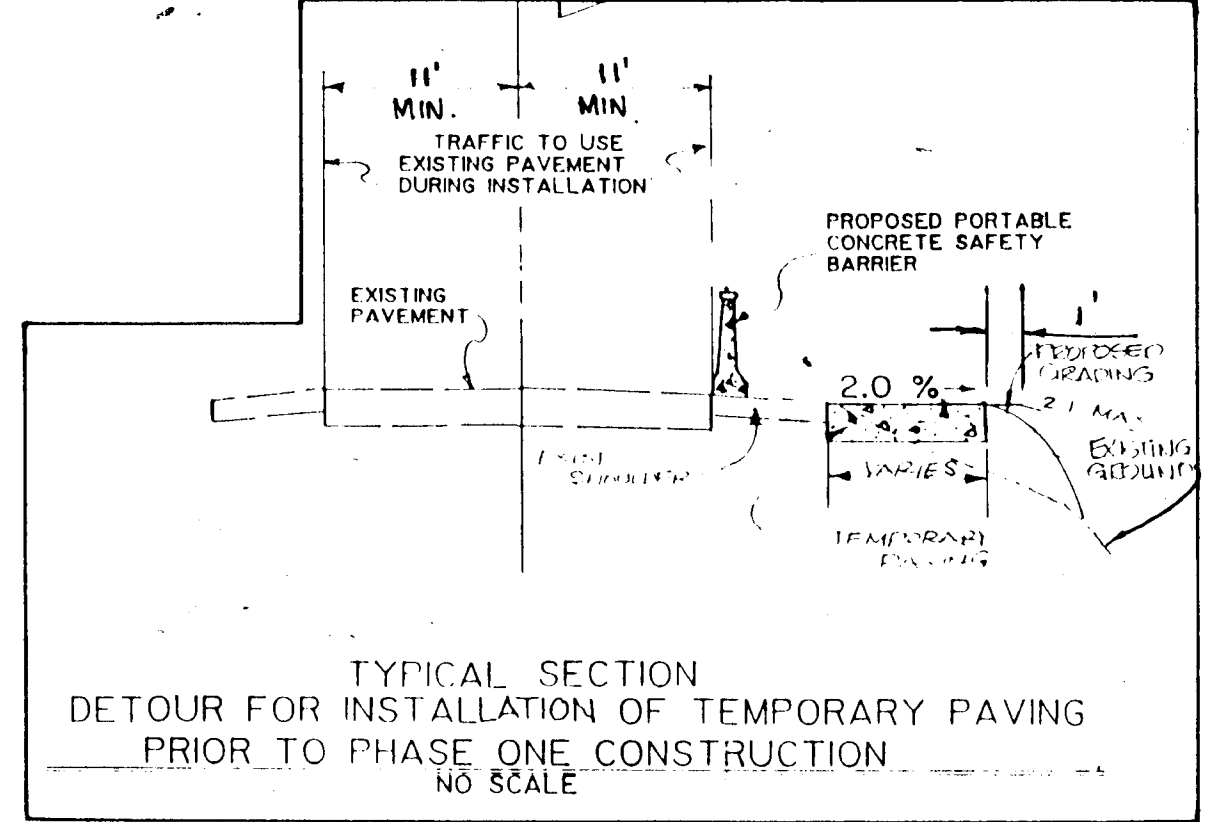
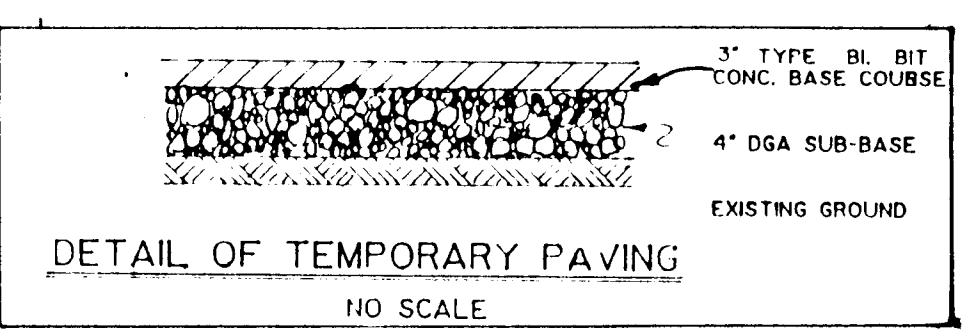
STORM DRAIN PROFILES
STA. 112+00 TO STA. 132+00
CENTENNIAL LANE

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA. 136+00
CAPITAL PROJECT J-4015- III
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 15 OF 27

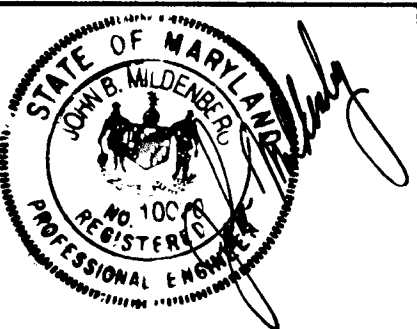
3/20/01 - C. P. ...

TEMPORARY SEDIMENT TRAP #1 (PHASE I)
 Drainage Area = 0.3 Acres
 Storage Required = 540 cu ft
 Bottom Dimensions = 10' x 32'
 Depth = 1.5'
 Side Slopes = 1:1
 Storage Capacity = 580 cu ft
 Type = ST-12 Storm Outlet
 Bottom Elev. = 477.0
 Outlet Elev. = 478.5
 Crest Elevation = 478.5



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: James J. ...
 Chief, Bureau of Engineering: ...
 Chief, Bureau of Highways: ...

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0078 O.C. Mem: (301) 621-5768

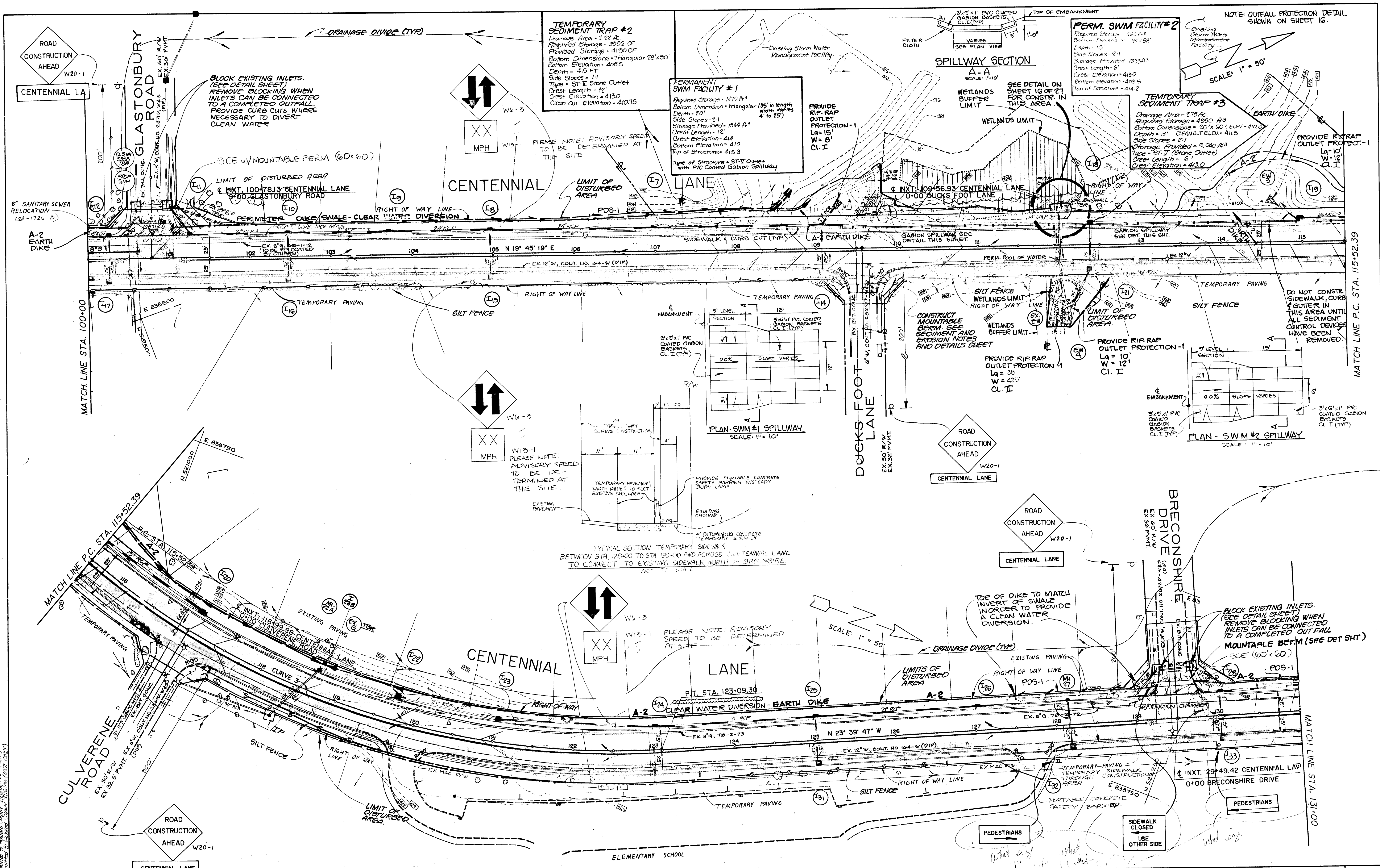


DES: PFB	KAM	1	Eliminate watermain references	JAN02
DRN: LSM				
CHK: JM				
DATE: 10/21	BY	NO.	REVISION	DATE

PHASE I
 MAINTENANCE OF TRAFFIC
 AND SEDIMENT CONTROL
 STA. 80+16.27 TO 100+00
 CENTENNIAL LANE

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015- III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 17 OF 27

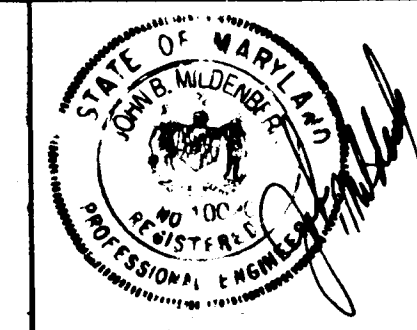


2. Submitted to H.C. Dept. of Eng. & S.C.S. 01/25/98
 3. Submitted to H.C. Dept. of Public Works 02/10/98
 4. Submitted to Howard County 02/10/98
 5. Submitted to Planning Dept. 02/10/98

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works: [Signature] DATE: 12-31-91
 Chief, Bureau of Engineering: [Signature] DATE: 12/31/91
 Chief, Bureau of Highways: [Signature] DATE: 12/31/91

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0078 D.C. Metro: (301) 621-5788

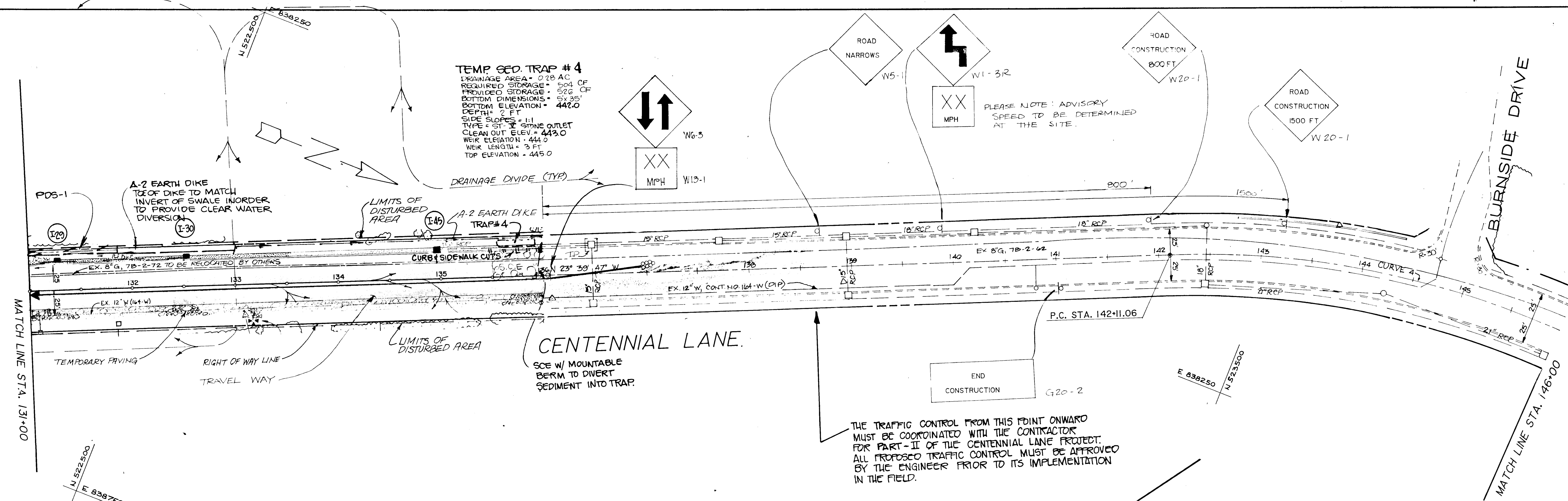


DES: PFB	KAM	1	Eliminate watermain perforations	JAN 92
DRN: LSM				
CHK: JTM				
DATE: 10/91	BY	NO.	REVISION	DATE

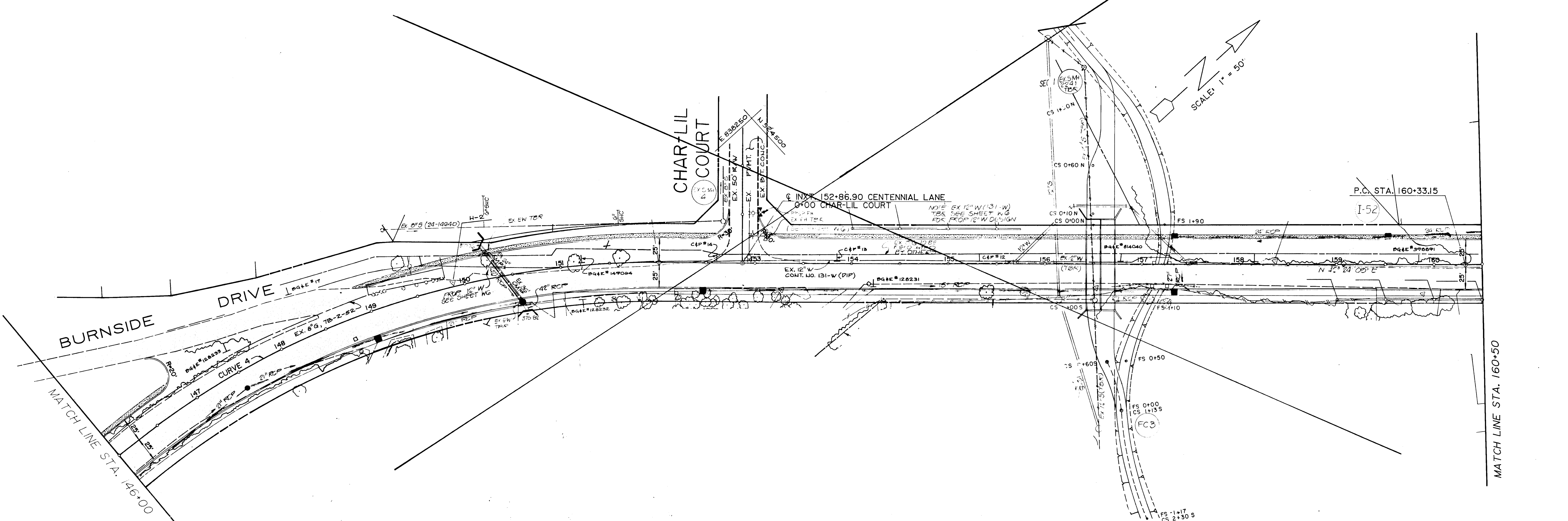
PHASE I
 MAINTENANCE OF TRAFFIC
 AND SEDIMENT CONTROL
 STA. 100+00 TO 131+00
 CENTENNIAL LANE

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 131+50
 CAPITAL PROJECT J-4015- III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

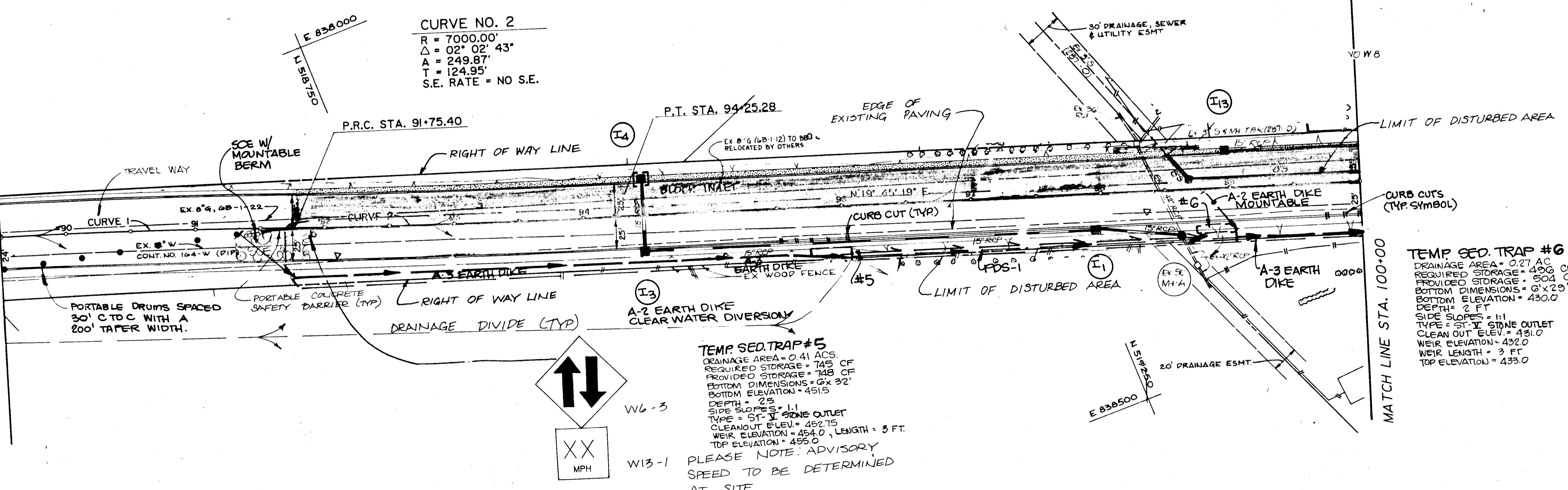
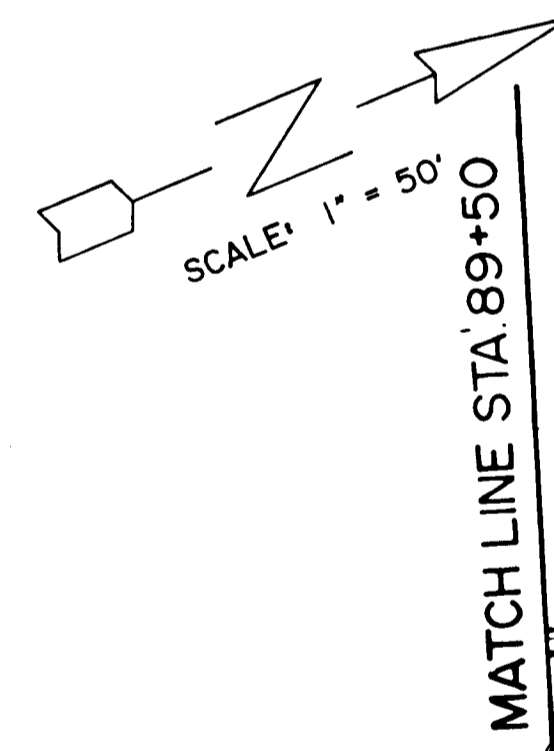
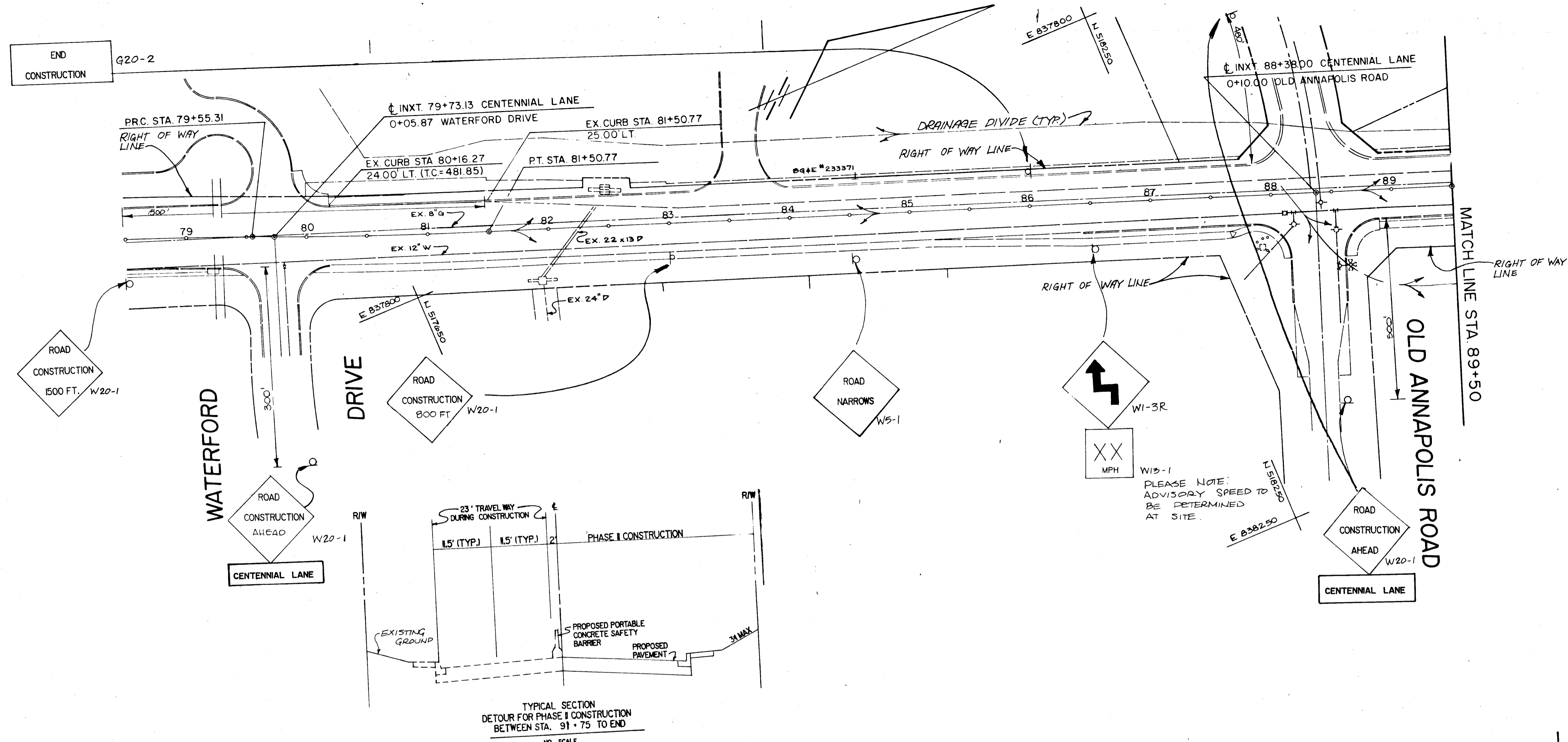
SCALE AS SHOWN
 SHEET 18 OF 27



THE TRAFFIC CONTROL FROM THIS POINT ONWARD MUST BE COORDINATED WITH THE CONTRACTOR FOR PART-II OF THE CENTENNIAL LANE PROJECT. ALL PROPOSED TRAFFIC CONTROL MUST BE APPROVED BY THE ENGINEER PRIOR TO ITS IMPLEMENTATION IN THE FIELD.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS Elizabeth Anderson-Lalor 12/2/91 CHIEF, ROADS, BRIDGES & STORMDRAINAGE	MILDENBERG, MOCHI & ASSOCIATES, INC. ENGINEER - SURVEYOR - PLANNER 2300 North River Road, Suite 222, Ellicott City, Maryland 21043-2336 (301) 481-0076 D.C. Metc. (301) 671-5766	DES: JBM/KAM	KAM	Eliminate Watermain Elevation References	JAN/92	PHASE I MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL STA. 131+00 TO 136+00 CENTENNIAL LANE	CENTENNIAL LANE OLD ANNAPOLIS ROAD TO STA. 136+00 CAPITAL PROJECT J-4015- III ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN
		DRN: STAFF						
DATE: 12-3-91 CHIEF, BUREAU OF ENGINEERING	DATE: 12/2/91 CHIEF, BUREAU OF HIGHWAYS	CHK: JBM				600' SCALE MAP NO. _____	BLOCK NO. _____	
		DATE: 1/1/91	BY: _____	NO. _____	REVISION _____	DATE _____		



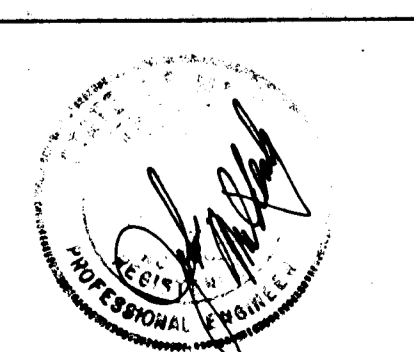
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ramon J. ... 12/14/91
CHIEF, BUREAU OF ENGINEERING

Elizabeth Anderson Calles 12/14/91
CHIEF, ROADS, BRIDGES & STORMDRAINAGE

MILDENBERG,
MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

2300 North Ridge Road, Suite 225, Ellicott City, Maryland 21042-2350
13011 461-0078 D.C. Metro: 13011 621-5788



DES: JDM/KAM			
DRN: STAFF			
CHK: JDM			
DATE: 10/91	BY	N.O.	REVISION

PHASE II
MAINTENANCE OF TRAFFIC
AND SEDIMENT CONTROL
STA. 80+16.27 TO 100+00
CENTENNIAL LANE

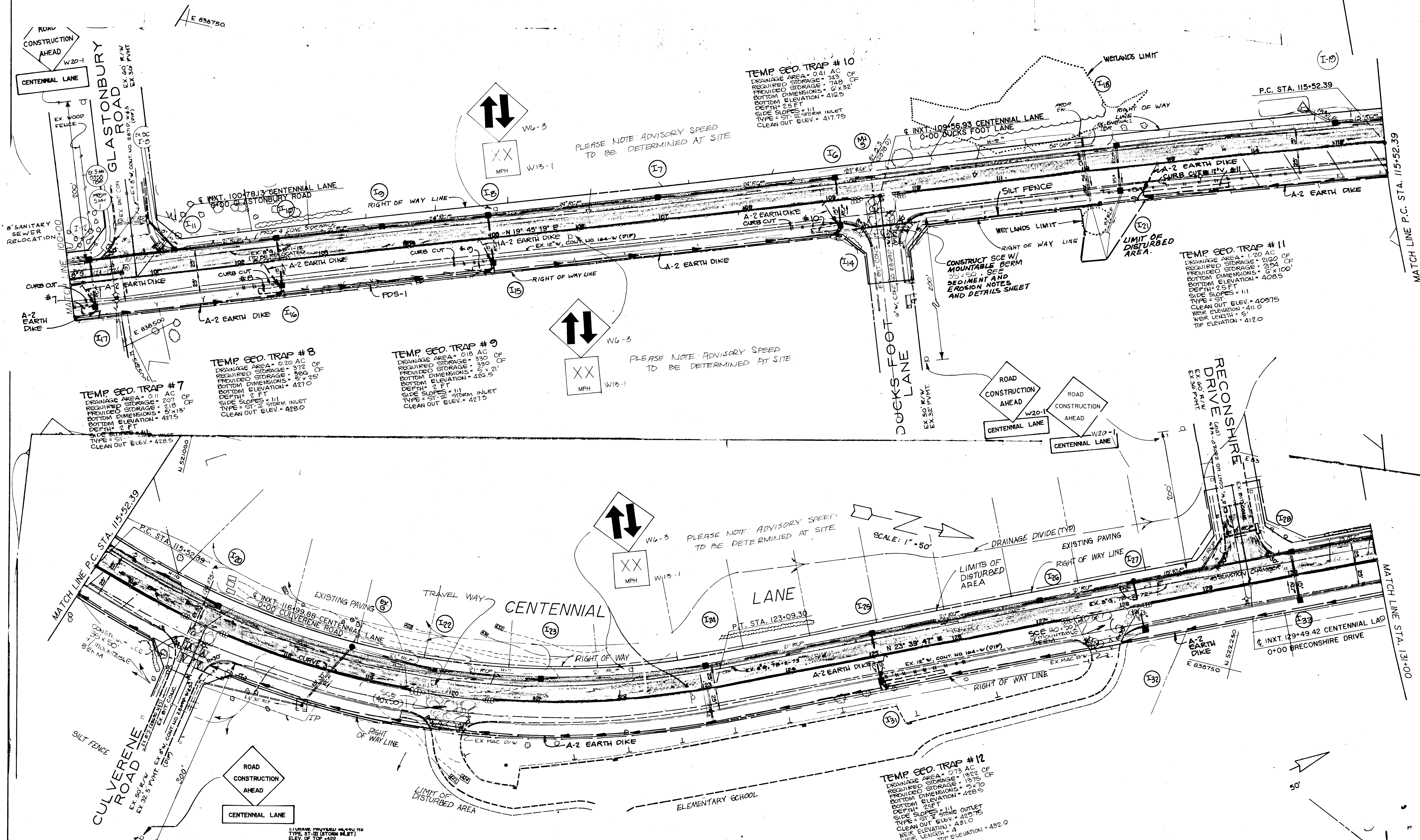
600' SCALE MAP NO. _____ BLOCK NO. _____

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA. 136+00
CAPITAL PROJECT J-4015-III
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
22 OF 27

SCALE: 1" = 50'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Lee 12/1/91
DIRECTOR OF PUBLIC WORKS DATE

Michael E. Riley 12-3-91
CHIEF, BUREAU OF ENGINEERING DATE

Elizabeth Anderson-Cole 12/2/91
CHIEF, ROADS, BRIDGES & STORMDRAINAGE DATE

Daniel W. Weiland 1/4/92
CHIEF, BUREAU OF HIGHWAYS DATE

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS - SURVEYORS - PLANNERS

3300 North Ridge Road, Suite 235, Elkton City, Maryland 21043-3350
(301) 461-3078 D.C. Metro: (301) 621-5788

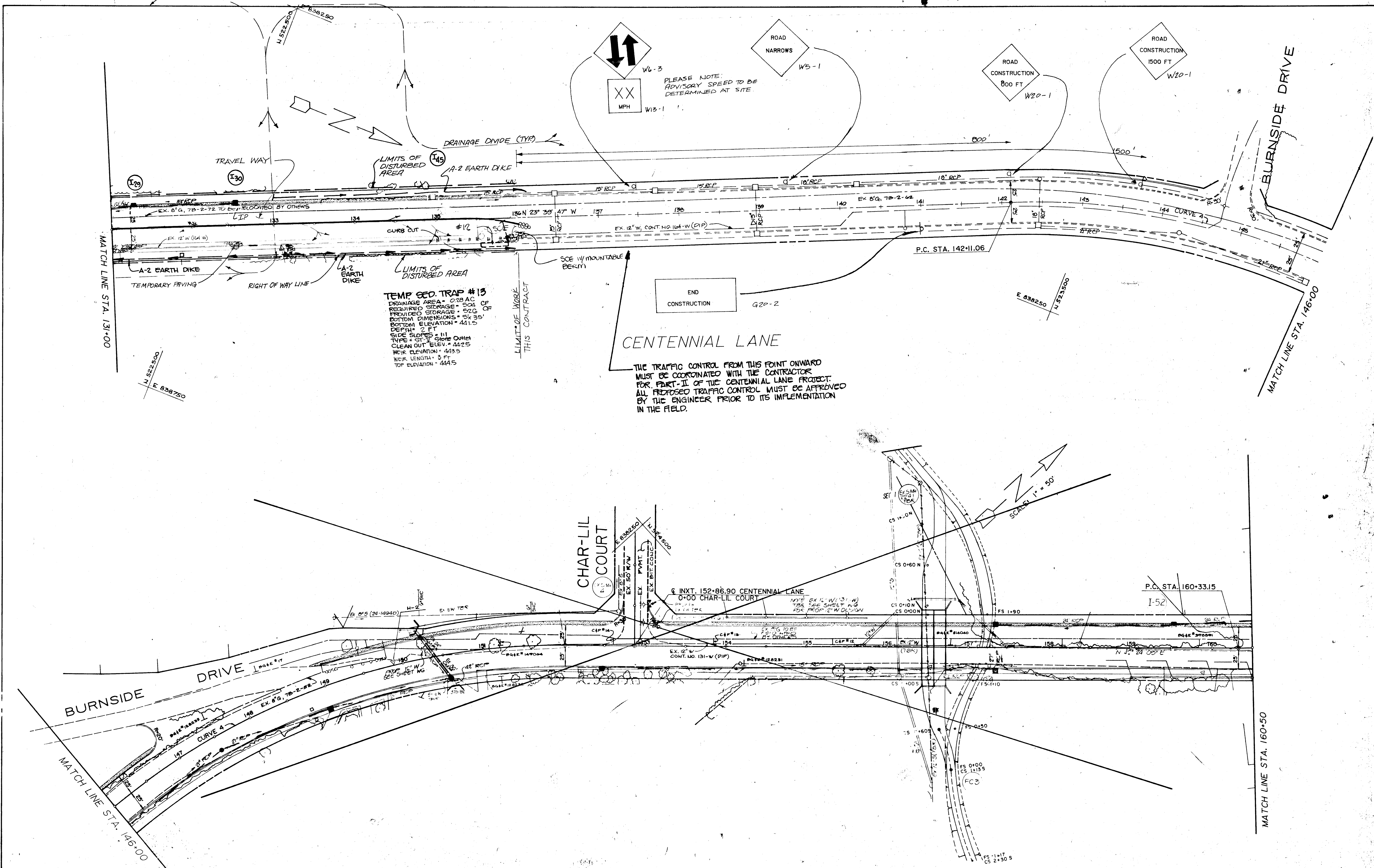


DES: JEM/KAM	KAM	1	Eliminate watermain relocation references	JAN 92
DRN: STAFF				
CHK: JEM				
DATE: 10/91	BY	NO.	REVISION	DATE

PHASE II
MAINTENANCE OF TRAFFIC
AND SEDIMENT CONTROL
STA. 100+00 TO 131+00
CENTENNIAL LANE

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA. 136+00
CAPITAL PROJECT J-4015-III
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 21 OF 27



TEMP SED. TRAP #13
 DRAINAGE AREA = 0.28 AC
 REQUIRED STORAGE = 520 OF
 PROVICED STORAGE = 520 OF
 BOTTOM DIMENSIONS = 5x35'
 BOTTOM ELEVATION = 441.5
 DEPTH = 2 FT
 SIDE SLOPES = 1:1
 TYPE = ST. V. PIPE OUTLET
 CLEAN OUT ELEV. = 442.5
 WEIR ELEVATION = 443.5
 WEIR LENGTH = 3 FT
 TOP ELEVATION = 444.5

THE TRAFFIC CONTROL FROM THIS POINT ONWARD
 MUST BE COORDINATED WITH THE CONTRACTOR
 FOR PART-III OF THE CENTENNIAL LANE PROJECT.
 ALL PROPOSED TRAFFIC CONTROL MUST BE APPROVED
 BY THE ENGINEER PRIOR TO ITS IMPLEMENTATION
 IN THE FIELD.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James M. [Signature] 12/19/91
 DIRECTOR OF PUBLIC WORKS DATE

William S. [Signature] 12/2/91
 CHIEF, BUREAU OF ENGINEERING DATE

James W. [Signature] 12/2/91
 CHIEF, BUREAU OF HIGHWAYS DATE

MILDENBERG,
MUCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS

2300 North Ridge Road, Suite 232, Ellicott City, Maryland 21042-2350
 (301) 481-0076 D.C. Metro: (301) 621-5786

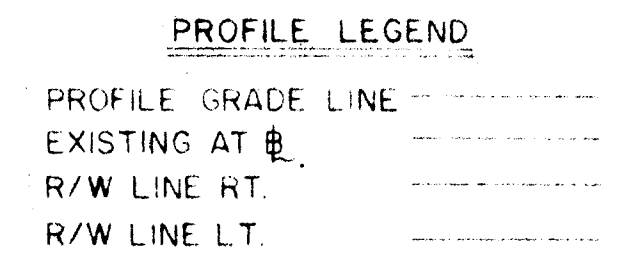
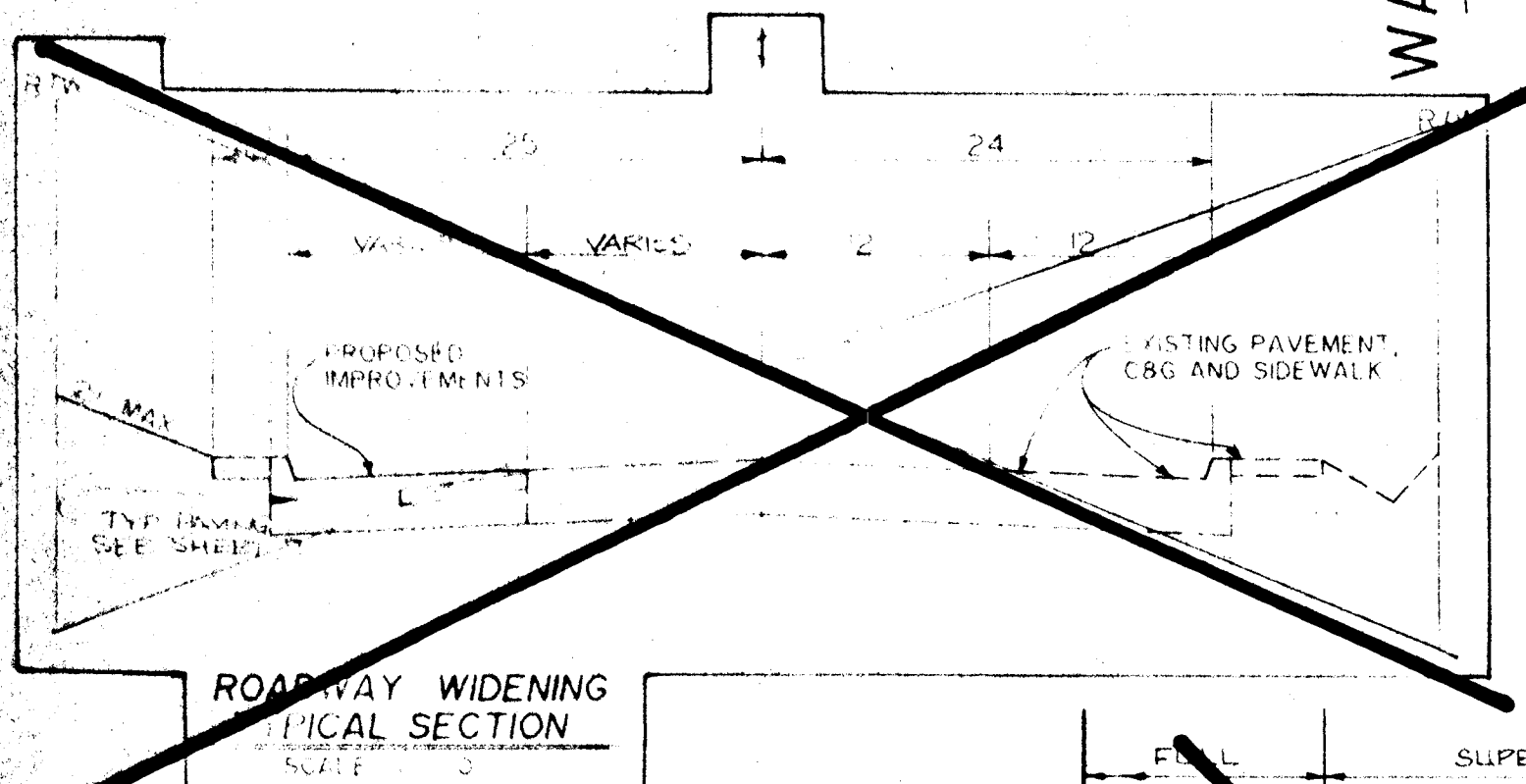
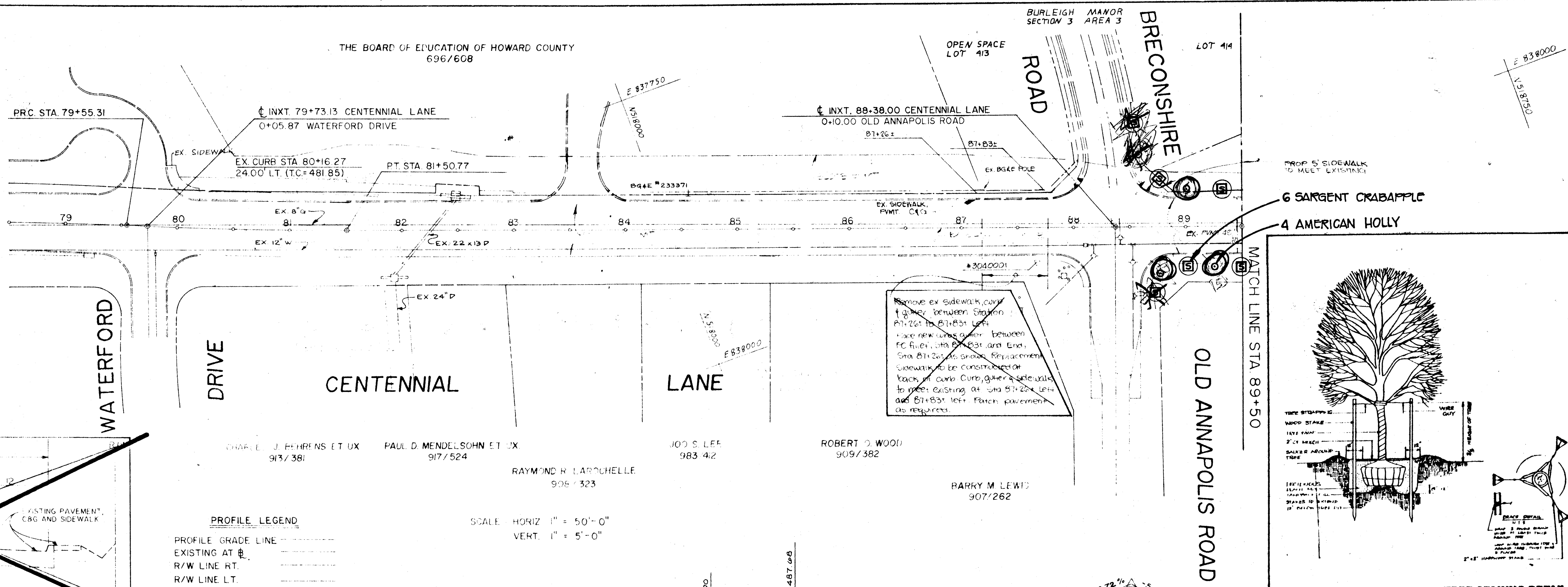
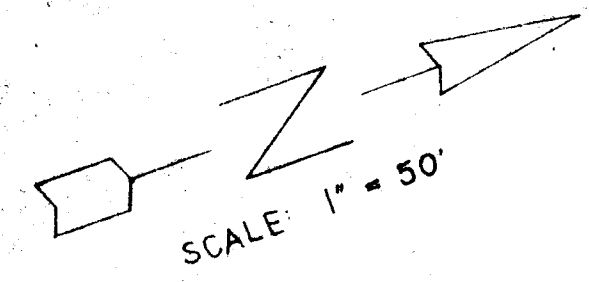


DES: KAM	EAM	1	Eliminate watermain relocation references	JAN 92
DRN: KAM				
CHK: JBM				
DATE: 10/91	BY	NO.	REVISION	DATE

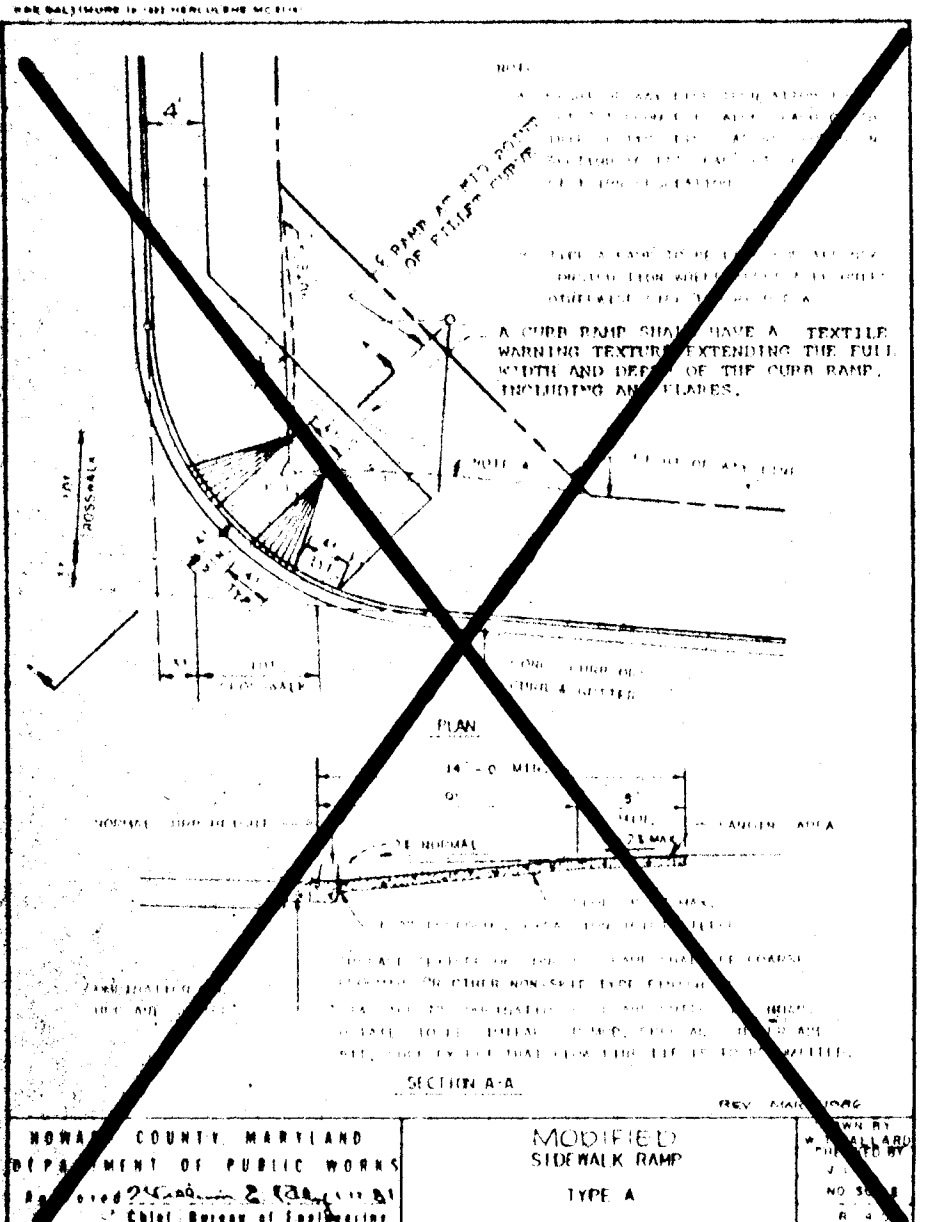
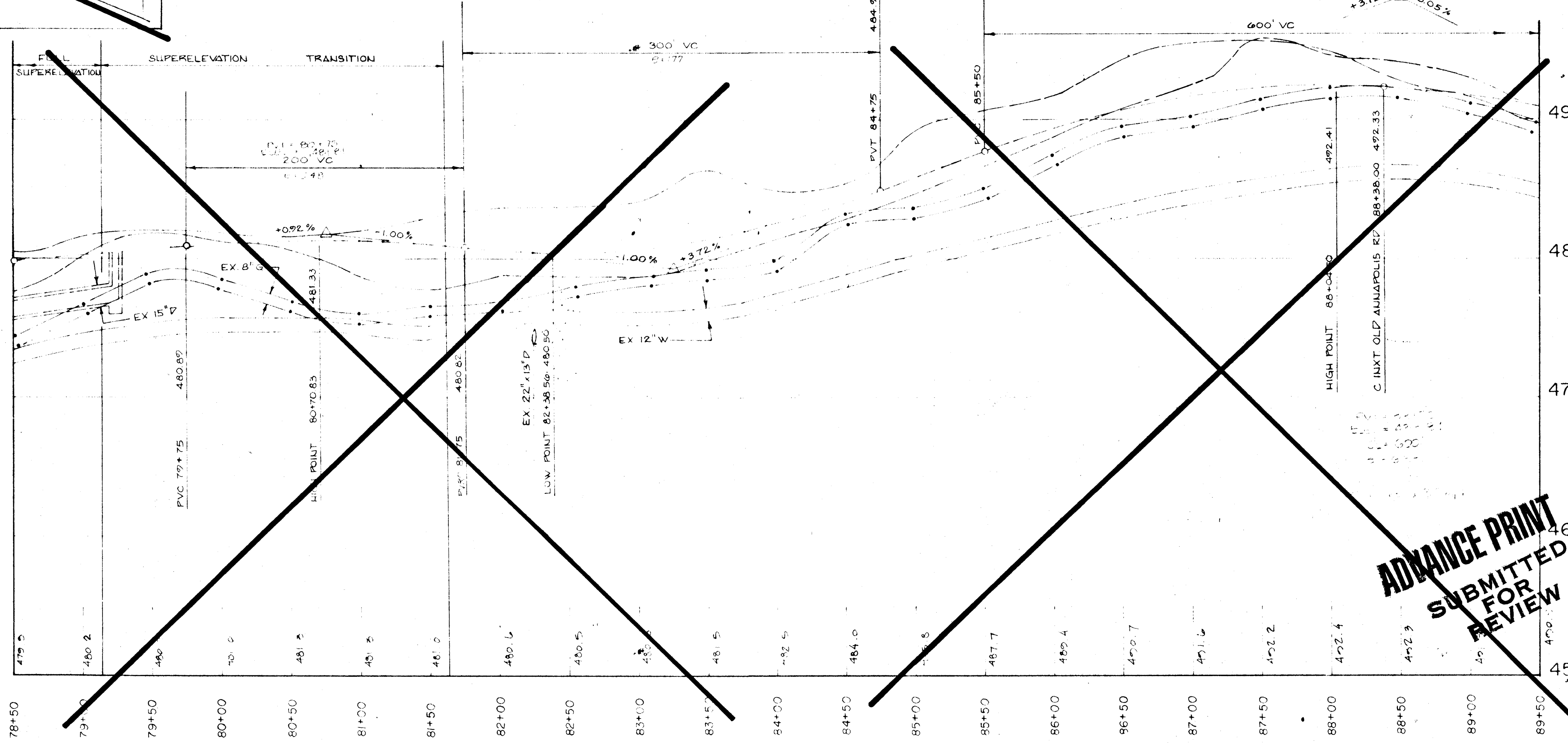
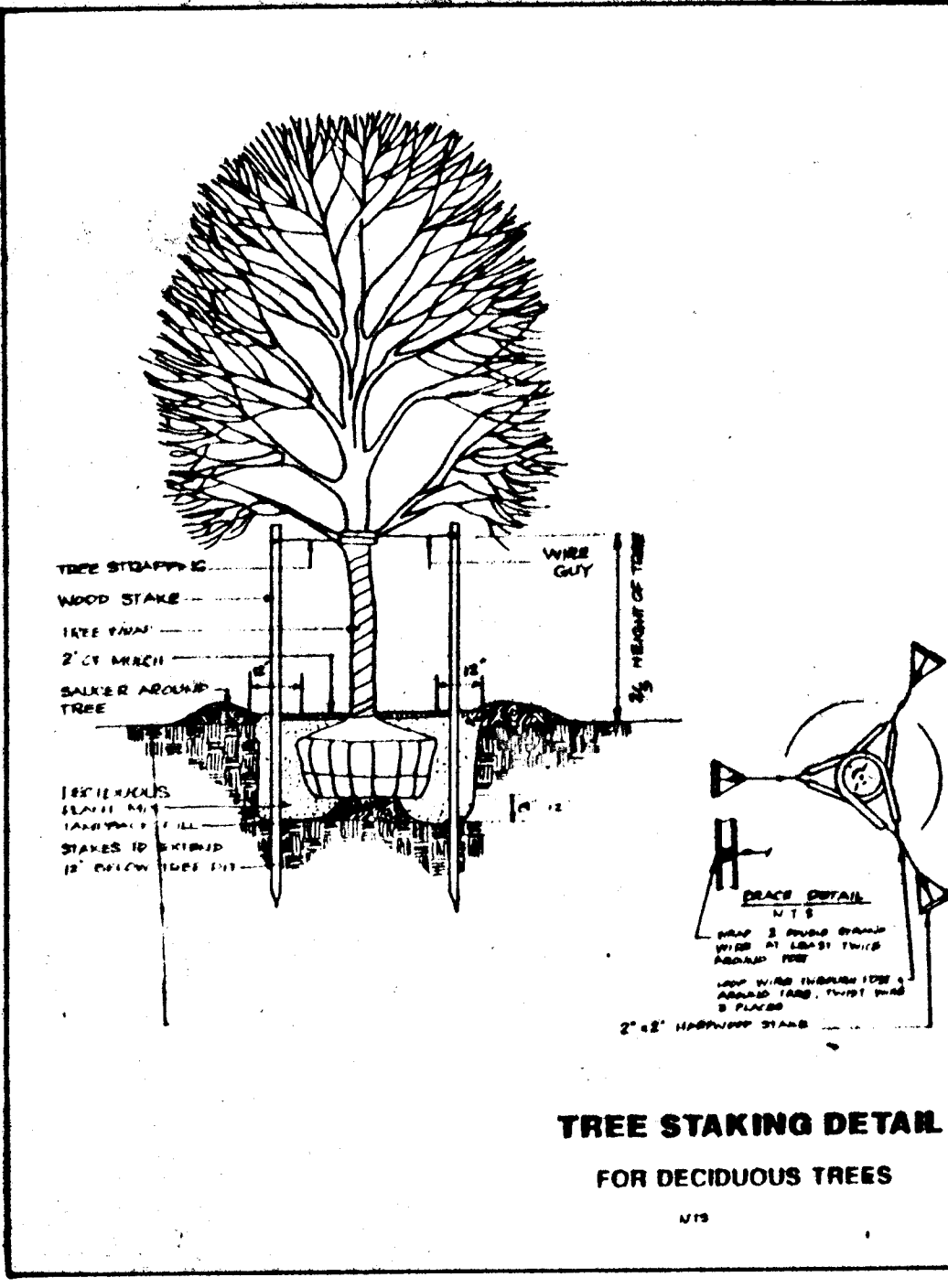
PHASE II
 MAINTENANCE OF TRAFFIC
 AND SEDIMENT CONTROL
 STA. 136+00 TO 146+00
 CENTENNIAL LANE

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015-III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 22 OF 27



SCALE: HORIZ 1" = 50'-0"
 VERT. 1" = 5'-0"



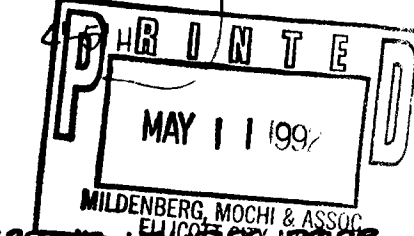
PLANT LIST

SYMBOL	QUANTITY	TYPE	SIZE
⊗	113	SARGENT CRABAPPLE (MALUS SPP)	2 1/2" CA, 4'-5" H
⊙	150	AMERICAN HOLLY (ILEX OPACA)	2 1/2" CA, 4'-5" H
⊕	140	LINDEN (TILIA AMERICANA)	2 1/2" CA, 12'-14" H
⊗	60	CANADIAN HEMLOCK (TSUGA CANADENSIS)	2 1/2" CA, 4'-5" H
⊗	9	KWANSAN CHERRY (PRUNUS SERRULATA)	4'-5" H
⊗	11	CHINABERRY (MELIA AZEDARACH)	4'-5" H
⊗	10	YOSHINO CHERRY (PRUNUS YEDOENSIS)	4'-5" H
⊗	14	AMER BEAUTY CRABAPPLE (MALUS SPP)	4'-5" H
⊗	24	BRADFORD PEAR (PYRUS CALLERYANA)	4'-5" H
⊗	10	EASTERN REDBUD (CERCIS CANADENSIS)	5'-6" H
⊗	10	WHITE DOGWOOD (CORNUS FLORIDA)	5'-6" H

Handwritten notes: 'Jup for BMHA' next to Sargent Crabapple and American Holly; 'Jup for BMHA' next to Chinaberry and Yoshino Cherry; '2-2 1/2 ea' next to Amer Beauty Crabapple.

**ADVANCE PRINT
SUBMITTED
FOR REVIEW**

- NOTES:**
- CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
 - LOCATION OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS.
 - SEE SPECIFICATIONS FOR GENERAL PLANTING REQUIREMENTS.
 - ALL TREES & SHRUBS TO BE PLANTED 3' BEHIND FACE OF CURB AND 10' FROM ALL DRAINAGE STRUCTURES, PUBLIC UTILITIES & RETAINING WALLS, ETC.
 - ROOT CONTROL BARRIERS TO BE USED IF PLANT TO BE PLACED WITHIN 4' OF THE SIDEWALK.



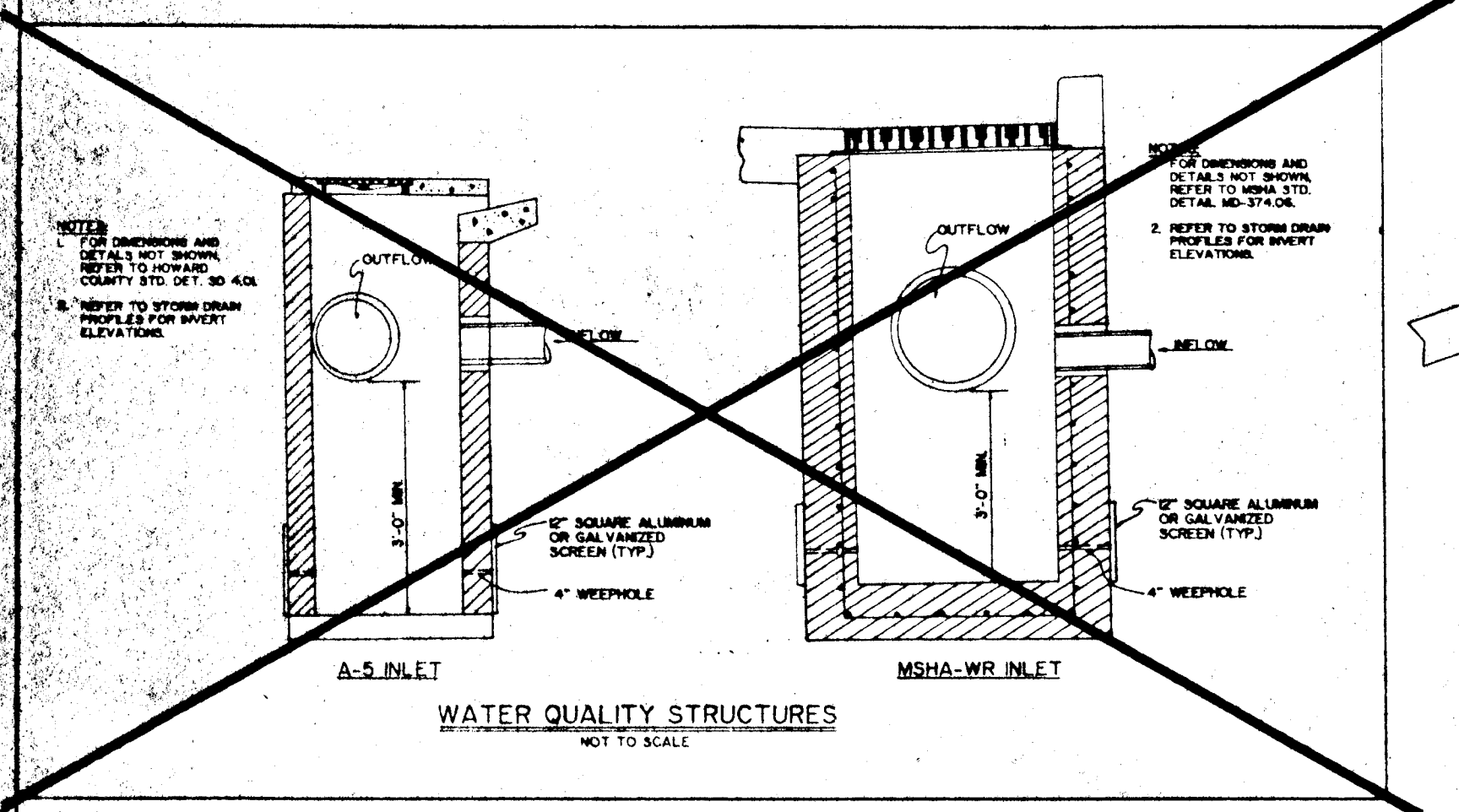
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 12-3-99
DIRECTOR OF PUBLIC WORKS: [Signature]

MILDENBERG, MOCHI & ASSOCIATES, INC.
DATE: 12-3-99
CHIEF DESIGNER: [Signature]

DES. STAFF: KAM 2
 DRN: KAM
 REVIS: LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS
 DATE: MAY 92

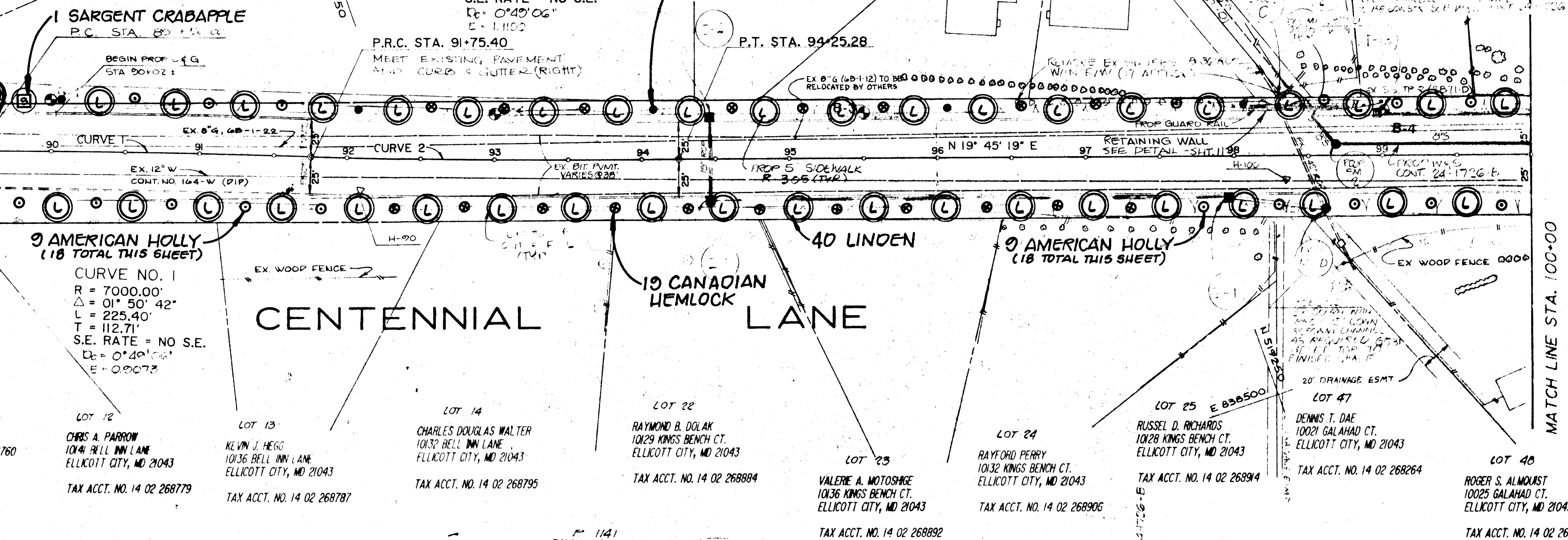
LANDSCAPE PLAN
 STA. 78+50 TO STA. 89+50
 CENTENNIAL LANE

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015-11
 ELECTION DISTRICT NO. 2
 SCALE AS SHOWN
 SHEET 23 OF 27



SCALE: 1" = 50'

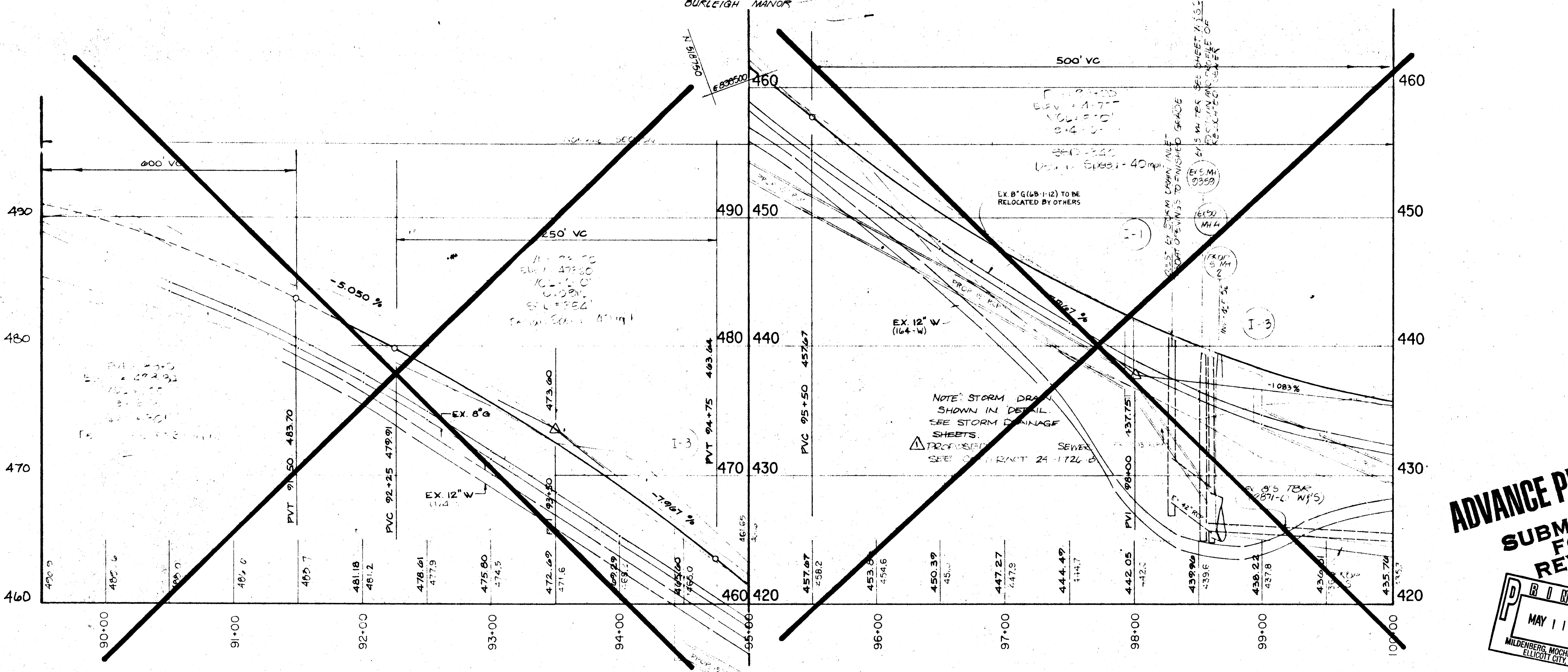
MATCH LINE STA 89+50



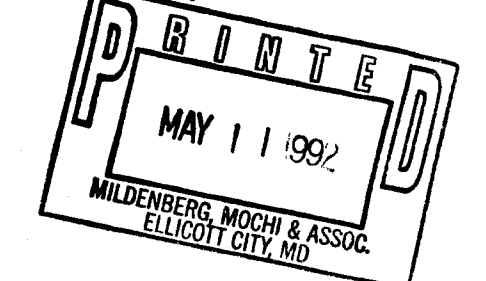
PROFILE LEGEND

- PROFILE GRADE LINE
- EXISTING AT R
- R/W LINE RT.
- R/W LINE LT.

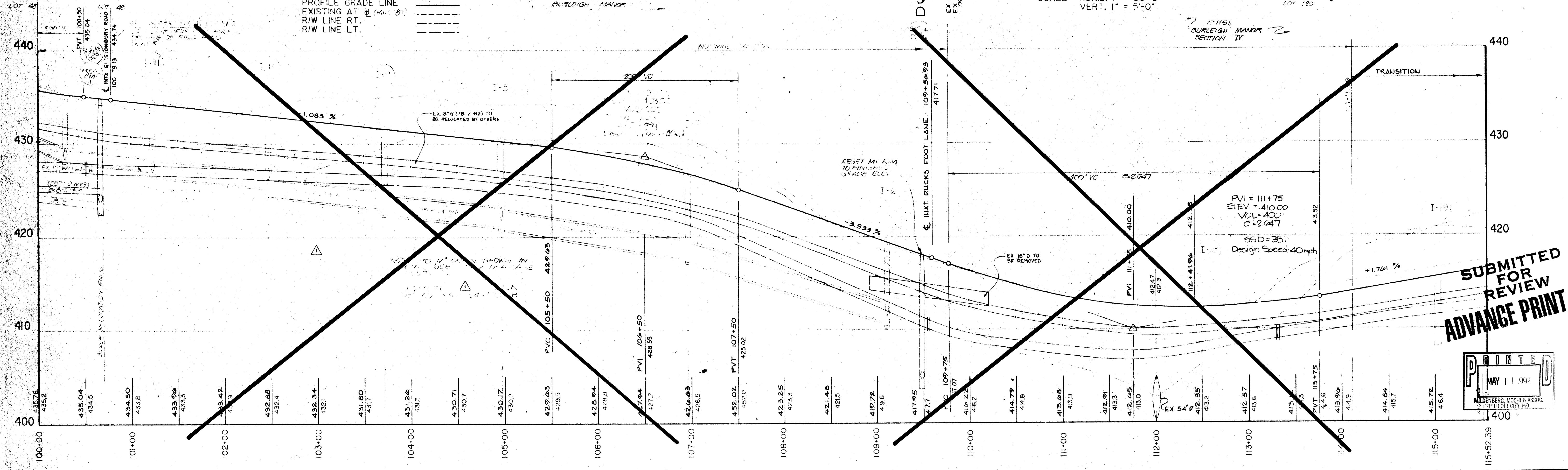
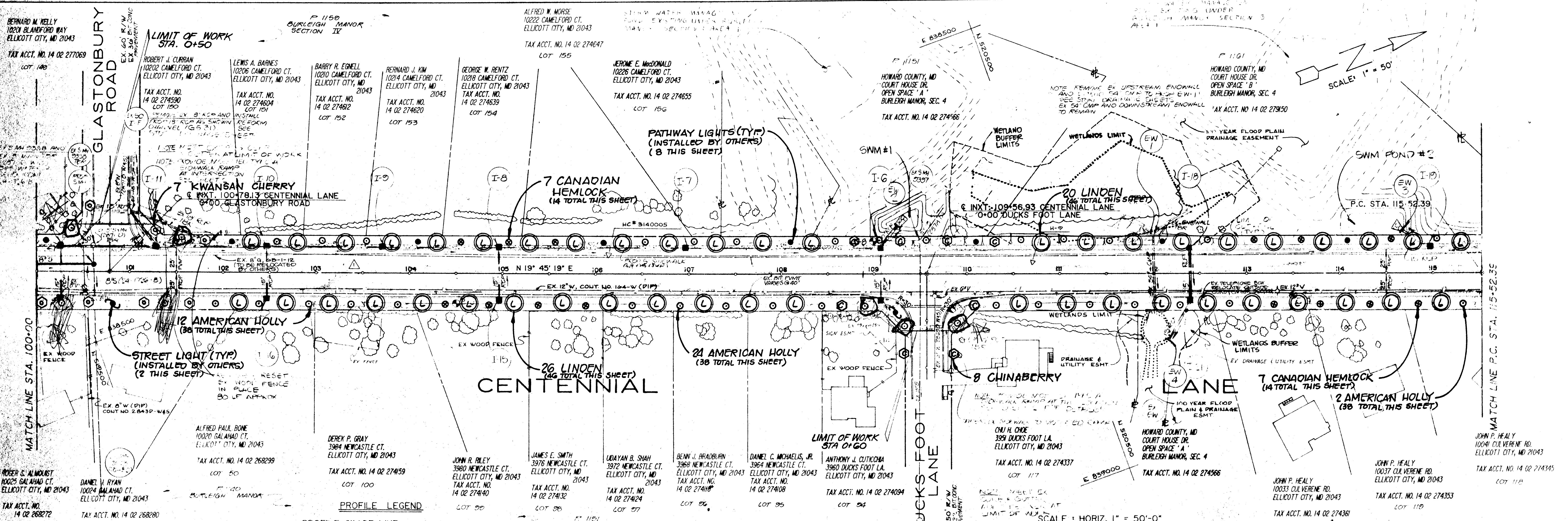
SCALE: HORIZ. 1" = 50'-0"
VERT. 1" = 5'-0"



**ADVANCE PRINT
SUBMITTED FOR
REVIEW**



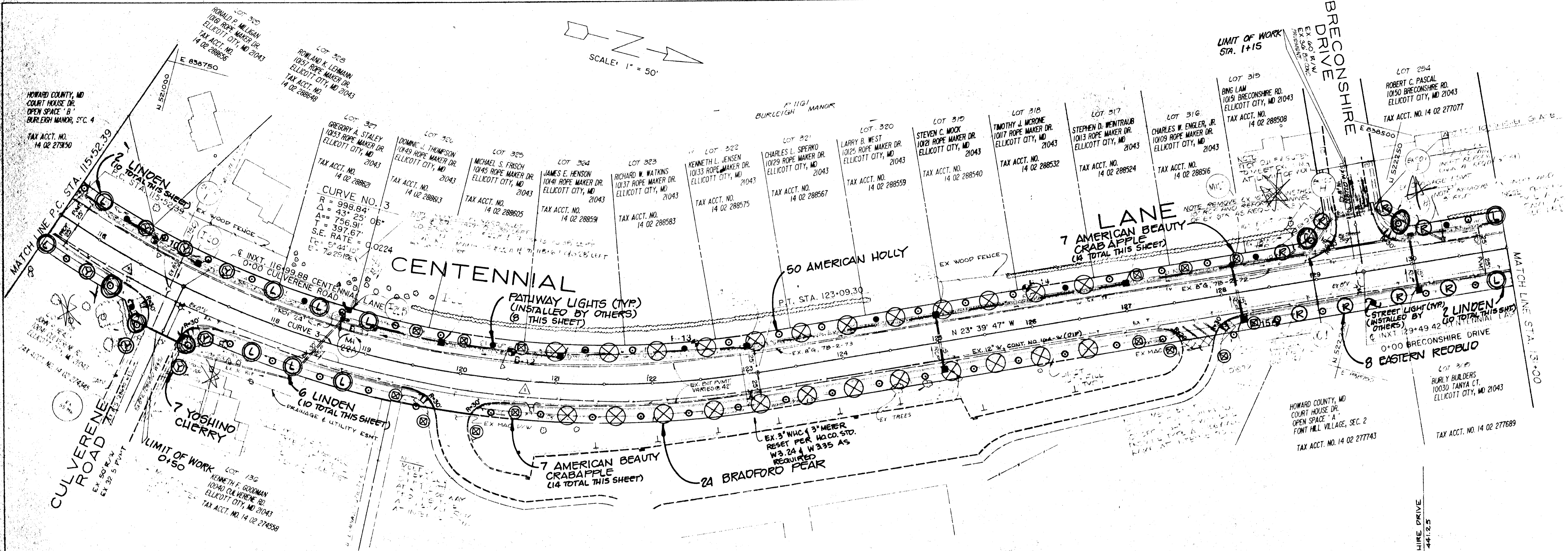
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 12-2-91 12/2/91		 ENGINEERS - SURVEYORS - PLANNERS 7300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350 (301) 961-0429 FAX (301) 961-5150		DES. STAFF DRN: K/V CHK: JEM DATE: 5/02	1. Eliminate watermain relocation this project. 2. REVISE LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS. JAN 92 MAY 92	LANOSCAPE PLAN STA. 89+50 TO STA. 100+00 CENTENNIAL LANE	CENTENNIAL LANE OLD ANNAPOLIS ROAD TO STA. 136+00 CAPITAL PROJECT J-4015-III ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 24 OF 27
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE: 12-3-91 DIRECTOR OF PUBLIC WORKS: <i>Shelagh Anderson</i> CHIEF, BUREAU OF STORM DRAINAGE: <i>William W. Heiland</i>		 MILDENBERG, MOCHI & ASSOCIATES, INC. ENGINEERS • SURVEYORS • PLANNERS 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350 (301) 461-0078 D.C. Metro (301) 671-5788		DES. STAFF: KAM DRN: KAM CHK: JBM DATE: 5/02		Eliminate watermain Relocation this project REVISE LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS JAN 02 MAY 02		LANDSCAPE PLAN STA. 100+00 TO STA. 115+52.39 CENTENNIAL LANE		CENTENNIAL LANE OLD ANNAPOLIS ROAD TO STA. 136+00 CAPITAL PROJECT J-4015-III ELECTION DISTRICT NO. 2 HOWARD COUNTY, MARYLAND		SCALE AS SHOWN SHEET 25 OF 27
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PRINTED MAY 11 1992

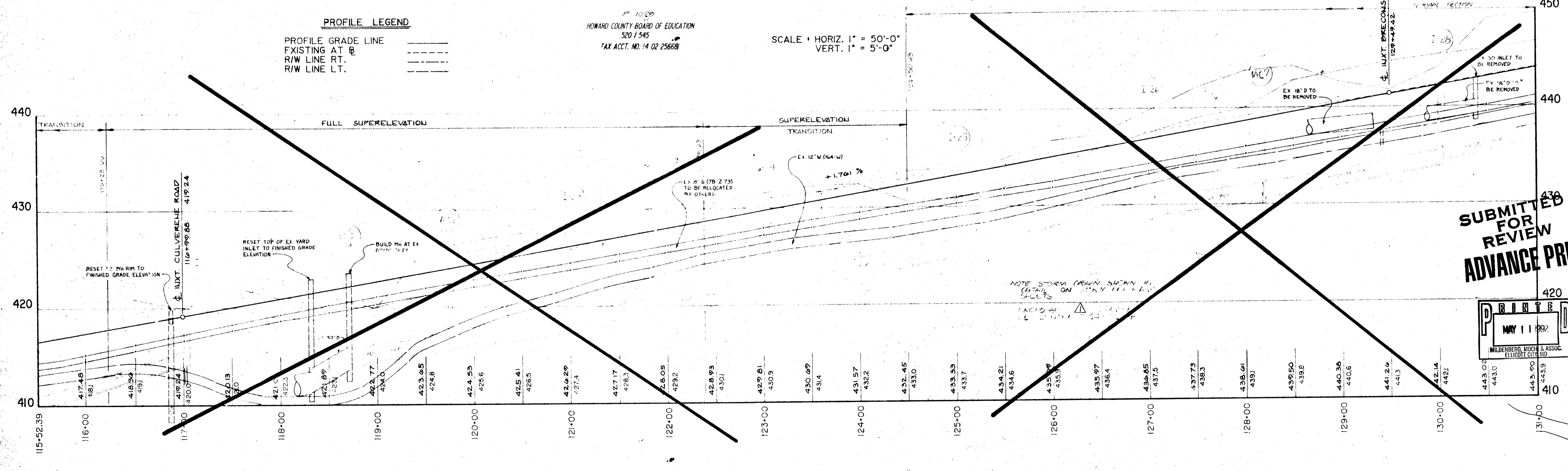


PROFILE LEGEND

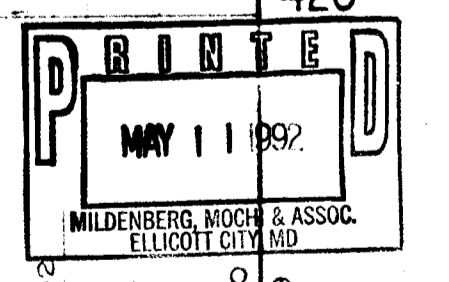
PROFILE GRADE LINE
 EXISTING AT B
 R/W LINE RT.
 R/W LINE LT.

HOWARD COUNTY BOARD OF EDUCATION
 520 1545
 TAX ACCT. NO. 14 02 256681

SCALE: HORIZ. 1" = 50'-0"
 VERT. 1" = 5'-0"

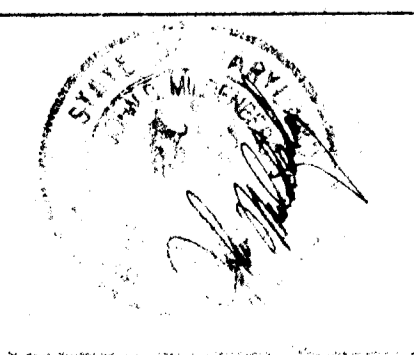


SUBMITTED FOR REVIEW ADVANCE PRINT



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DATE: 12-27
 CHECKED BY: [Signature]

MILDENBERG, MOCHI & ASSOCIATES, INC.
 3300 North Ridge Road, Suite 215, Ellicott City, Maryland 21043-1300
 (410) 801-0020



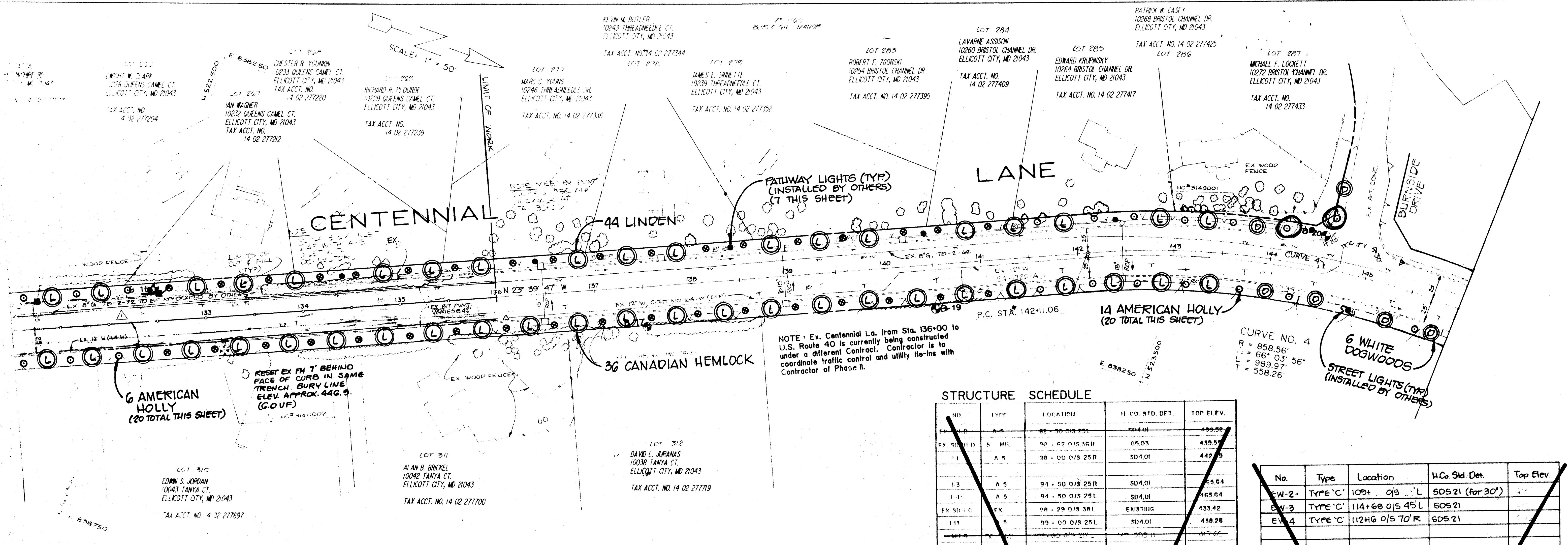
DES: STAFF
 KAM
 BRN: KAM
 DATE: 5/92

Eliminate watermain Relocation
 REVISE LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS
 JAN 92
 MAY 92

LANDSCAPE PLAN
 STA. 115+52.39 TO STA. 131+00
 CENTENNIAL LANE

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015-III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 26 OF 27

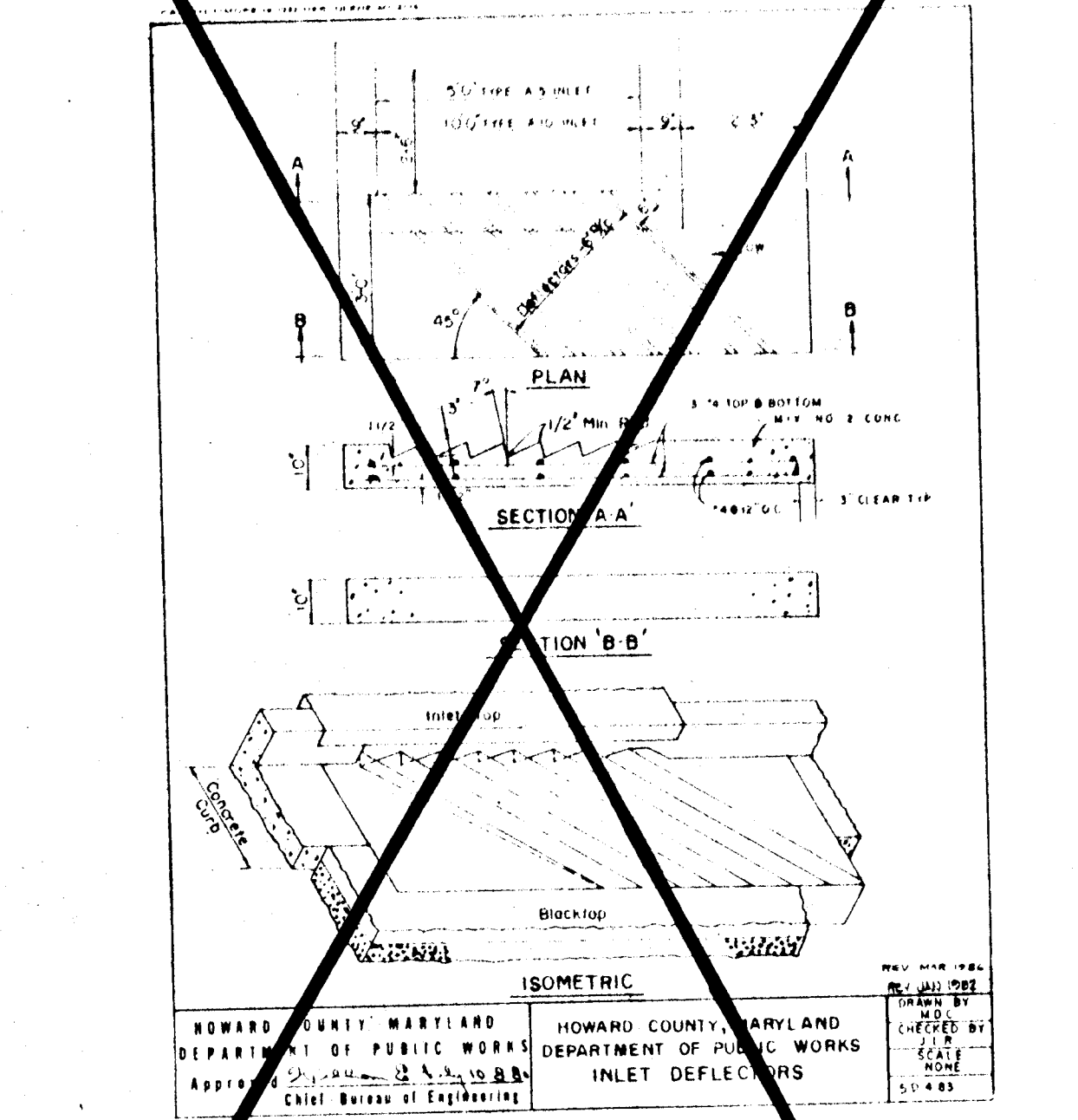
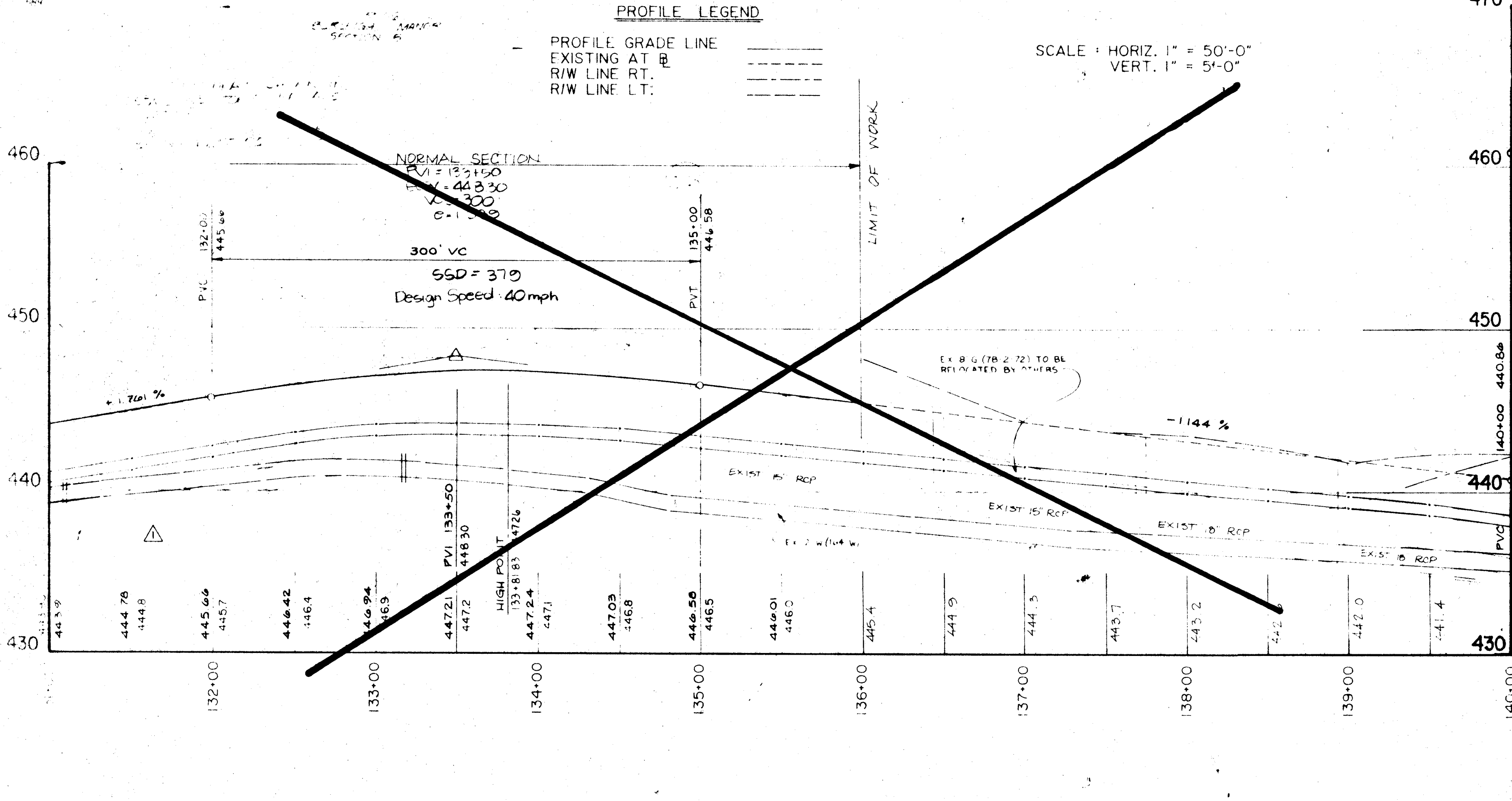


NOTE: Ex. Centennial Lg. from Sta. 136+00 to U.S. Route 40 is currently being constructed under a different Contract. Contractor is to coordinate traffic control and utility tie-ins with Contractor of Phase II.

STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	W. CO. STD. DET.	TOP ELEV.
EX. SDI 1-D	A-5	92+00 O/S 25L	SD4.01	439.92
EX. SDI 1-D	A-5	98+00 O/S 25R	SD4.01	442.9
1-3	A-5	94+50 O/S 25R	SD4.01	455.64
1-4	A-5	94+50 O/S 25L	SD4.01	465.64
EX. SDI 1-C	EX.	98+29 O/S 30L	EXISTING	433.42
1-11	A-5	99+00 O/S 25L	SD4.01	438.26
1-6	A-5	109+10 O/S 25L	SD4.01	419.39
1-7	A-5	107+00 O/S 25L	SD4.01	426.67
1-8	A-5	105+00 O/S 25L	SD4.01	430.21
1-9	A-5	103+75 O/S 25L	SD4.01	431.57
1-10	A-5	102+50 O/S 25L	SD4.01	432.92
EX. SDI 1-F	EXISTING	EXISTING	EXISTING	EXISTING
1-11	A-5	101+32 O/S 25L	SD4.01	434.17
1-12	A-5	100+32 O/S 25L	SD4.01	435.50
1-14	A-5	109+10 O/S 25R	SD4.01	419.39
1-15	A-5	105+00 O/S 25R	SD4.01	430.21
1-16	A-5	102+50 O/S 25R	SD4.01	432.92
1-17	A-5	100+32 O/S 25R	SD4.01	435.50
1-18	A-5	102+40 O/S 25L	SD4.01	412.37
1-19	A-5	105+00 O/S 25L	SD4.01	415.74
MA-22-A	4 MI	OVER EX. 30' RCP (12' x 24' x 28'L)	GS.01	422.27
1-21	A-5	102+40 O/S 25R	SD4.01	412.37
EX. EW 1	TYPE A	102+00 O/S 41L	SD5.11	408.40
EX. EW 1	EXISTING	102+00 O/S 41R	EXISTING	408.91
1-20	A-5	107+00 O/S 25L	SD4.01	419.27
1-22-B	Y-1	OVER EX. 30' RCP (12' x 24' x 28'L)	GS.01	417.40
1-22	A-5	105+75 O/S 25L	SD4.01	424.11
1-23	A-5	101+00 O/S 25L	SD4.01	426.31
1-24	A-5	123+00 O/S 25L	SD4.01	429.25
1-25	DROP 14"	125+00 O/S 25L	MD 303	433.35
1-26	A-5	127+00 O/S 25L	SD4.01	436.87
MII 27	4 MI	128+15 O/S 28L	GS.01	438.97
JC 1	JC	128+98 O/S 27L	SD12	
EX. SDI 1-I	EXISTING	EXISTING	EXISTING	EXISTING
EX. SDI 1-I	EXISTING	EXISTING	EXISTING	EXISTING
1-28	A-5	130+00 O/S 25L	SD4.01	442.18
1-31	A-5	125+00 O/S 25R	SD4.01	433.66
1-32	A-5	128+15 O/S 25R	SD4.01	438.88
1-33	A-5	130+00 O/S 25R	SD4.01	441.18
1-29	A-5	131+25 O/S 25R	SD4.01	444.58
1-35	A-5	132+50 O/S 25L	SD4.01	446.4
1-45	EX. K to A-5	EXISTING	SD4.01	446.60

No.	Type	Location	W. Co. Std. Det.	Top Elev.
EW-2	TYPE 'C'	102+00 O/S 25L	SD5.21 (for 30')	1
EW-3	TYPE 'C'	114+68 O/S 45L	SD5.21	
EW-4	TYPE 'C'	112HG O/S 70'R	SD5.21	



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

12-2-91
DATE

12/4/91
DATE

MILDENBERG,
MOCHI & ASSOCIATES, INC.
3700 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3550
(301) 461-0078 (301) 621-5763



RES. 1
KAM 1
KAM 2
DATE: 5/92

Eliminate watermain Relocation.
REVISE LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS

REVISION

LANSCAPE PLAN
STA. 131+00 TO STA. 146+00
CENTENNIAL LANE

600 SCALE MAP NO. 24 BLOCK NO.

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA. 136+00
CAPITAL PROJECT J-4015-III
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 27 OF 27

PRINTED
MAY 11 1992
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