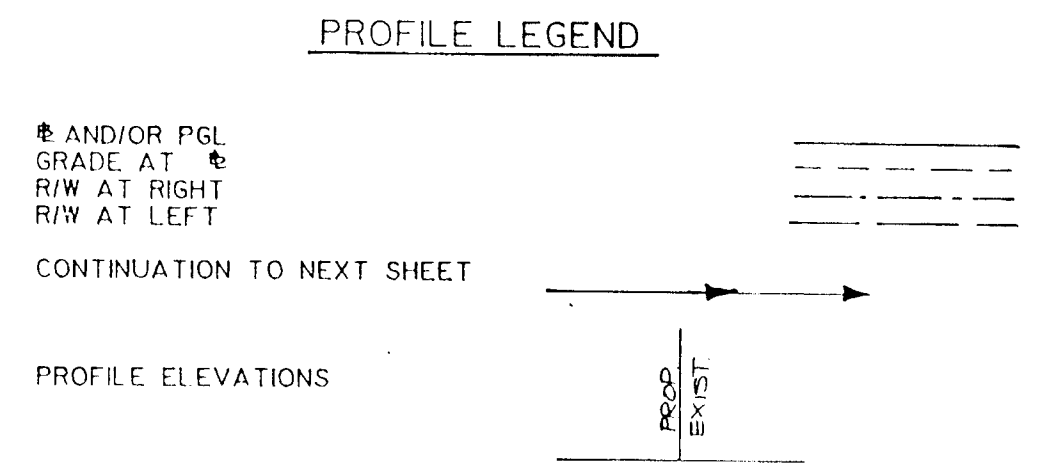
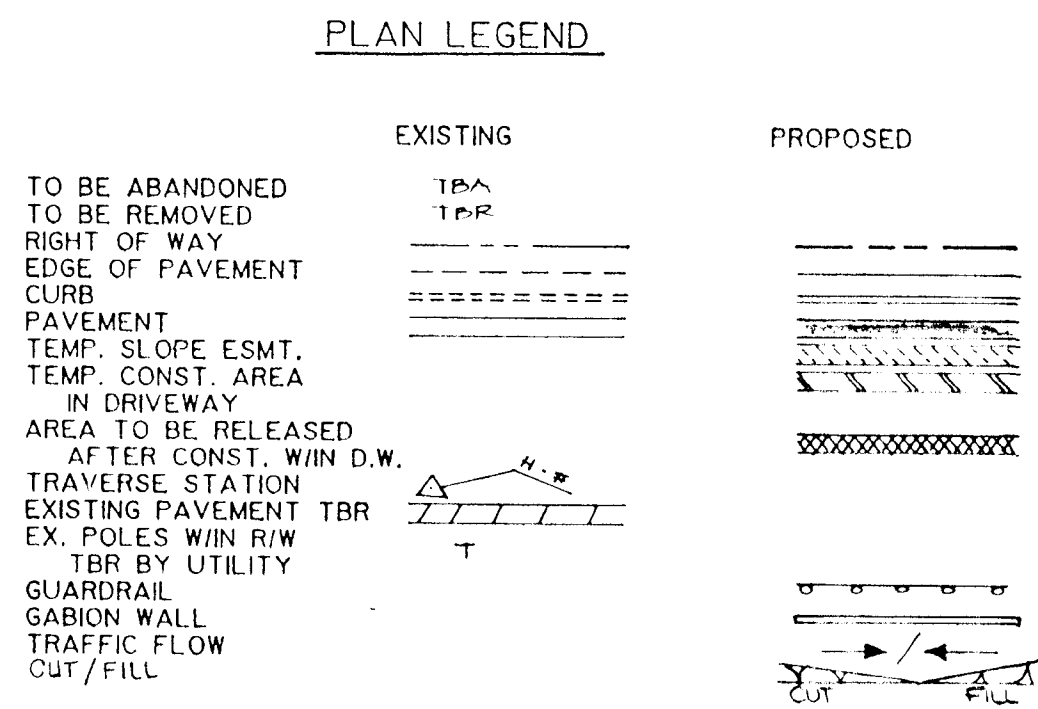
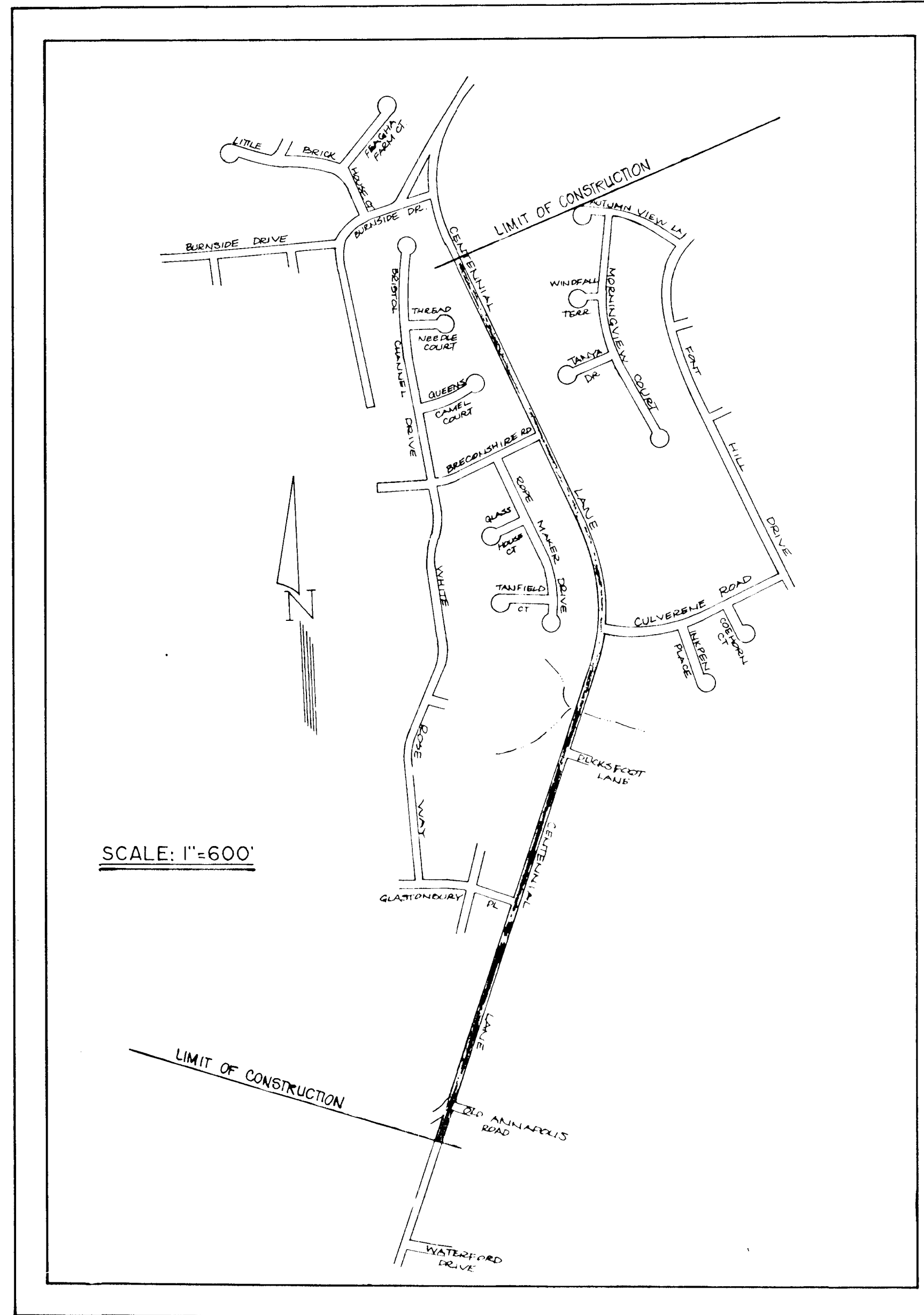


INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN & PROFILE
3	PLAN & PROFILE
4	PLAN & PROFILE
5	PLAN & PROFILE
6	PLAN & PROFILE
7	TYPICAL SECTIONS FOR INTERSECTING ROADS
8	HORIZONTAL & VERTICAL CONTROLS
9	SUPERELEVATION
10	INTERSECTING STREETS PROFILES
11	GABION WALL PROFILES & DETAILS
12	DRAINAGE AREA MAP
13	DRAINAGE AREA MAP
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

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".



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

- CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS**
- 1) Properly maintain the structure or fill;
 - 2) Adhere to time-of-year restrictions as required by the Maryland Department of the Environment under COMAR 26.08.02. 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.
 - 3) Remove excess fill or construction material or debris to an 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;
 - 4) 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;
 - 5) 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;
 - 6) 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
 - 7) All disturbed steep wetland buffers must be stabilized with a stabilization matting or mulch and tack (crimping in, cellulose, or asphalt spray) or equivalent management procedure after construction, to prevent excess sedimentation.

THE FOLLOWING PERMITS APPLY TO THIS PROJECT:
 WCF No. 02-WC-0236
 P&C No. 100105045

APPROVED PLAN SUBMISSION
 SCD [Signature]
 SCS [Signature]
 EP-91-28
 60-42-64

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR WETLAND CONSTRUCTION PERMITS AND SEDIMENT CONTROL.
 [Signature] 12/19/91
 U.S. SOIL CONSERVATION SERVICE

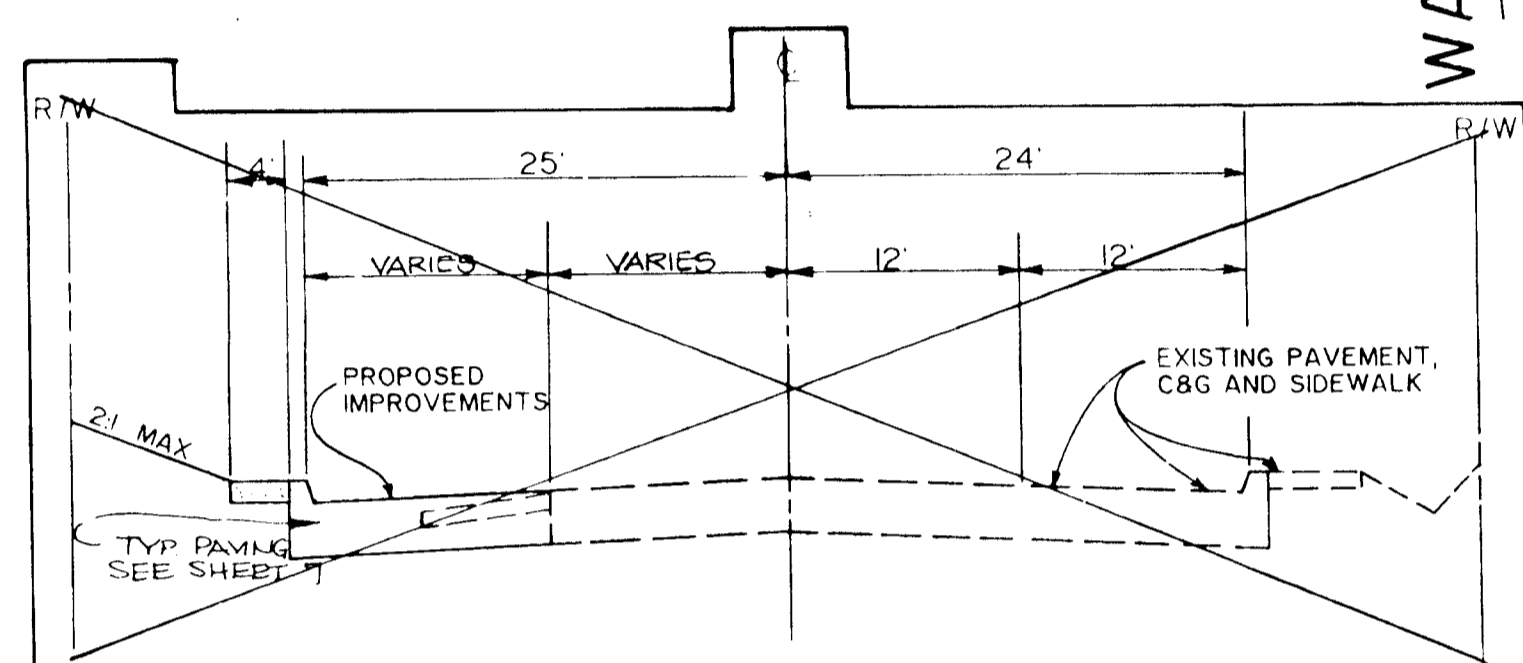
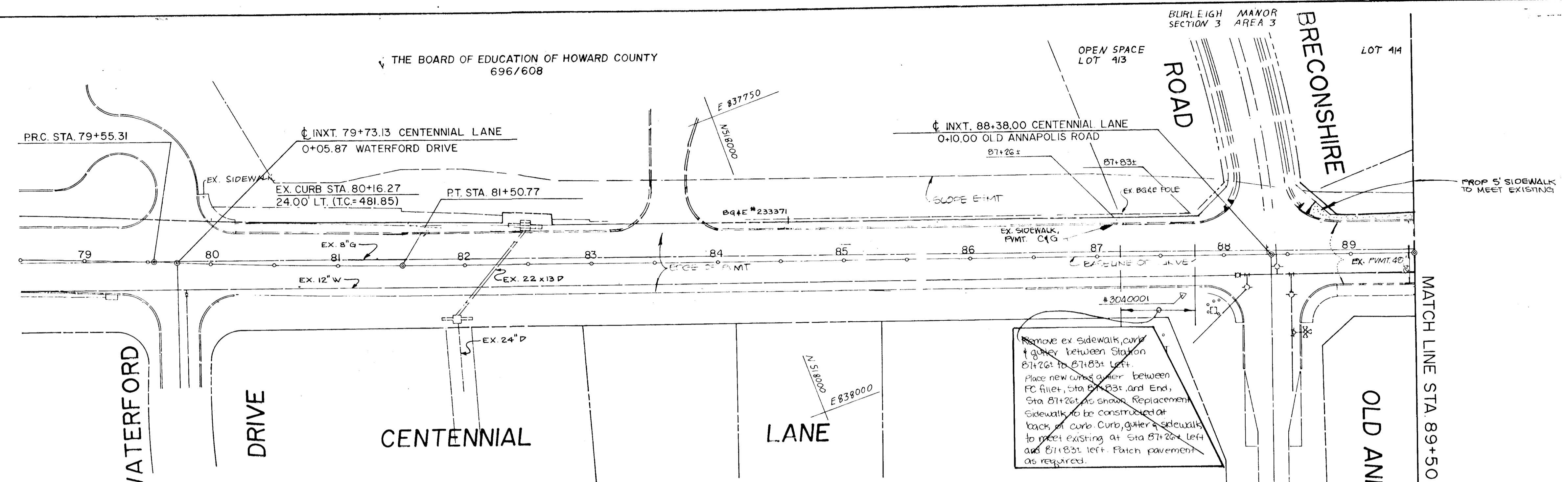
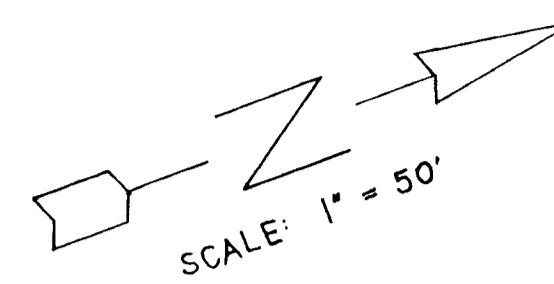
THESE PLANS FOR SHALL BE AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY CONSERVATION DISTRICT.
 [Signature] 12/19/91
 HOWARD COUNTY CONSERVATION DISTRICT

1196

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND James [Signature] 12/19/91 DIRECTOR OF PUBLIC WORKS	MILDENBERG, MOCHI & ASSOCIATES, INC. ENGINEERS • SURVEYORS • PLANNERS 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350 (301) 461-0078 D.C. Metro No. (301) 621-5768	STATE OF MARYLAND PROFESSIONAL ENGINEER [Signature]	DES: JSM/KAM DRN: STAFF CHK: JSM PROJ: 87001-00 DATE: 10/91	1. [Blank] 2. [Blank] 3. [Blank] 4. [Blank] 5. [Blank]	AN-91-1216 1/13	TITLE SHEET	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 1 OF 27
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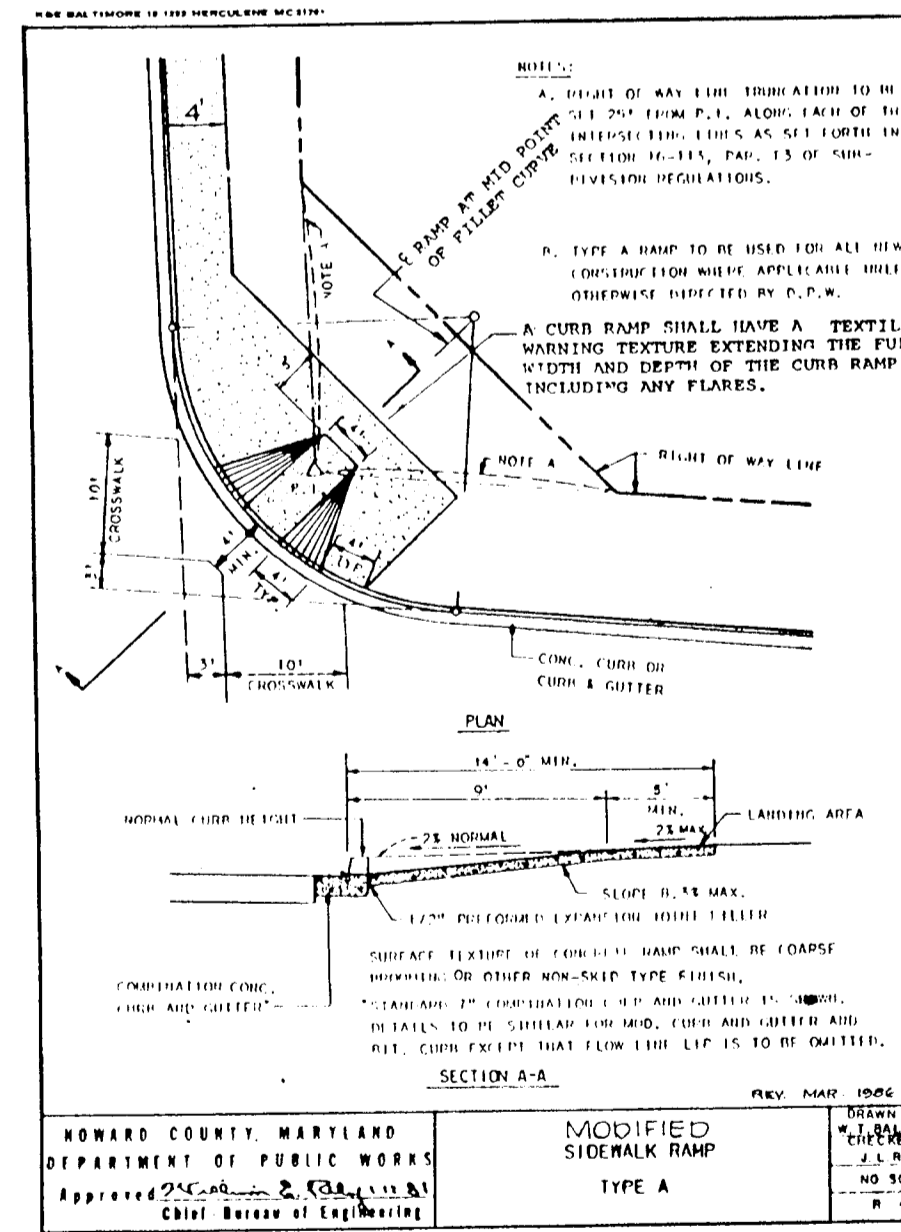
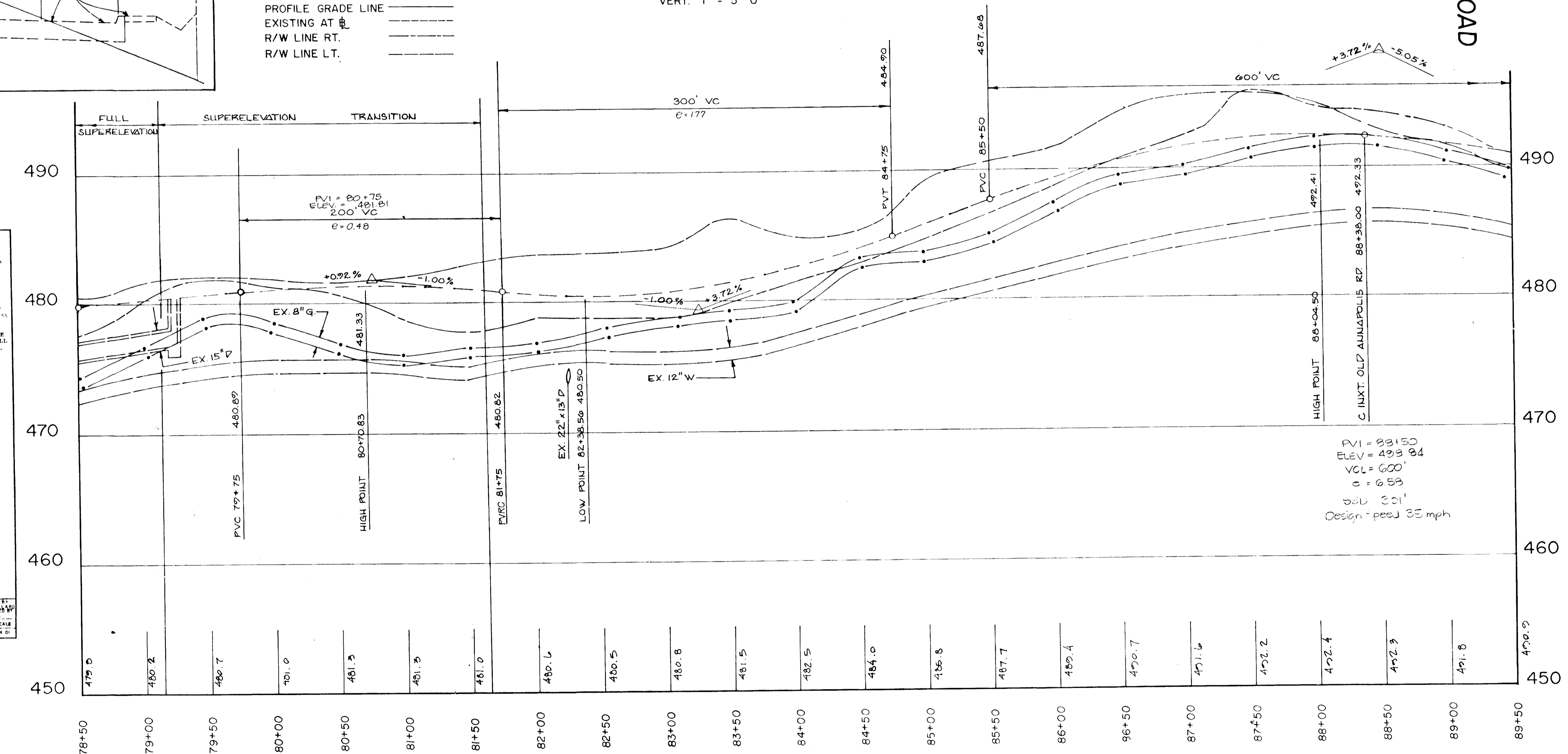
THE BOARD OF EDUCATION OF HOWARD COUNTY
696/608

BURLEIGH SECTION 3
MANOR AREA 3
LOT 414



PROFILE LEGEND
PROFILE GRADE LINE
EXISTING AT $\frac{1}{2}$ "
R/W LINE RT.
R/W LINE LT.

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



1196

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

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

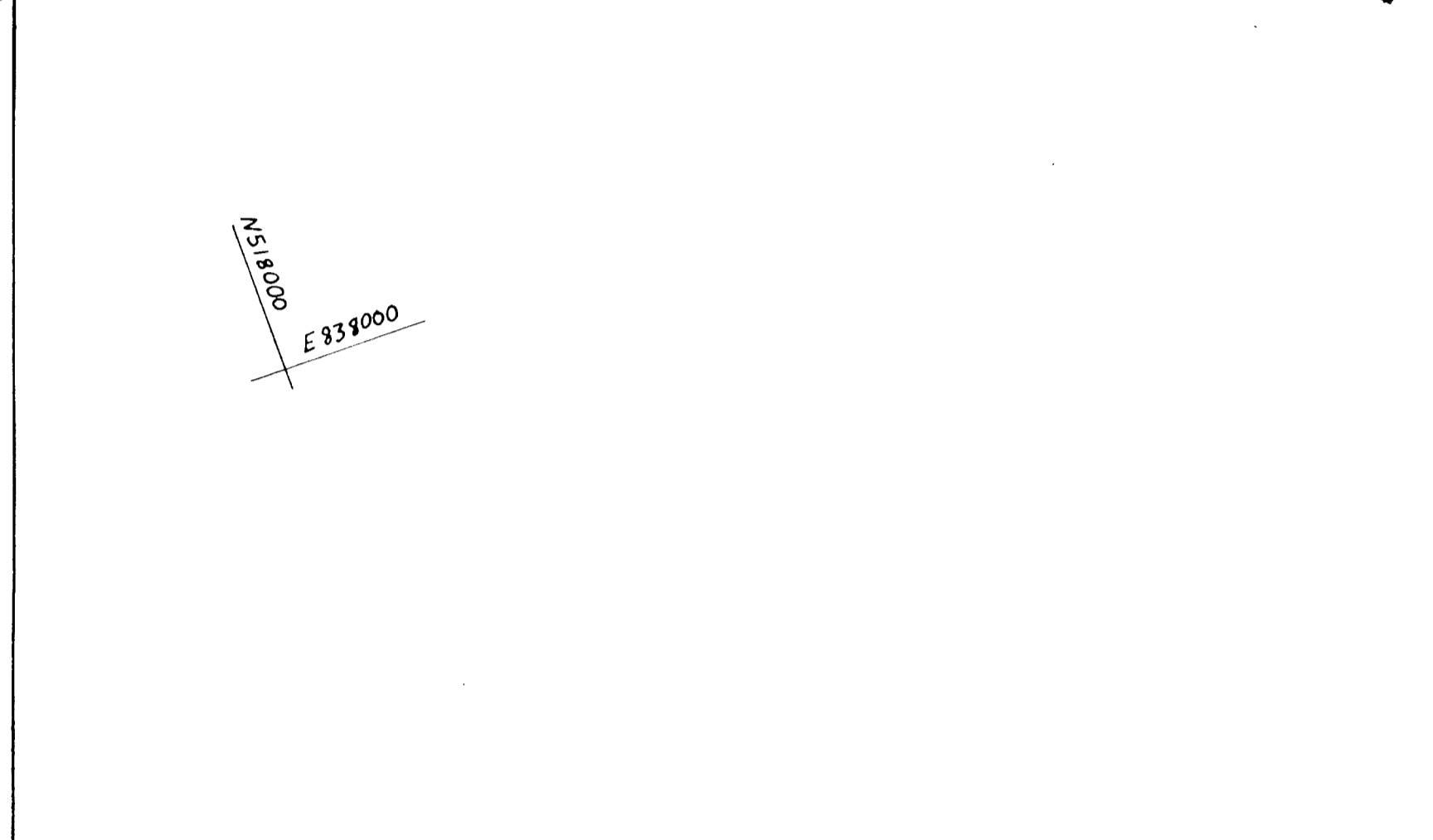
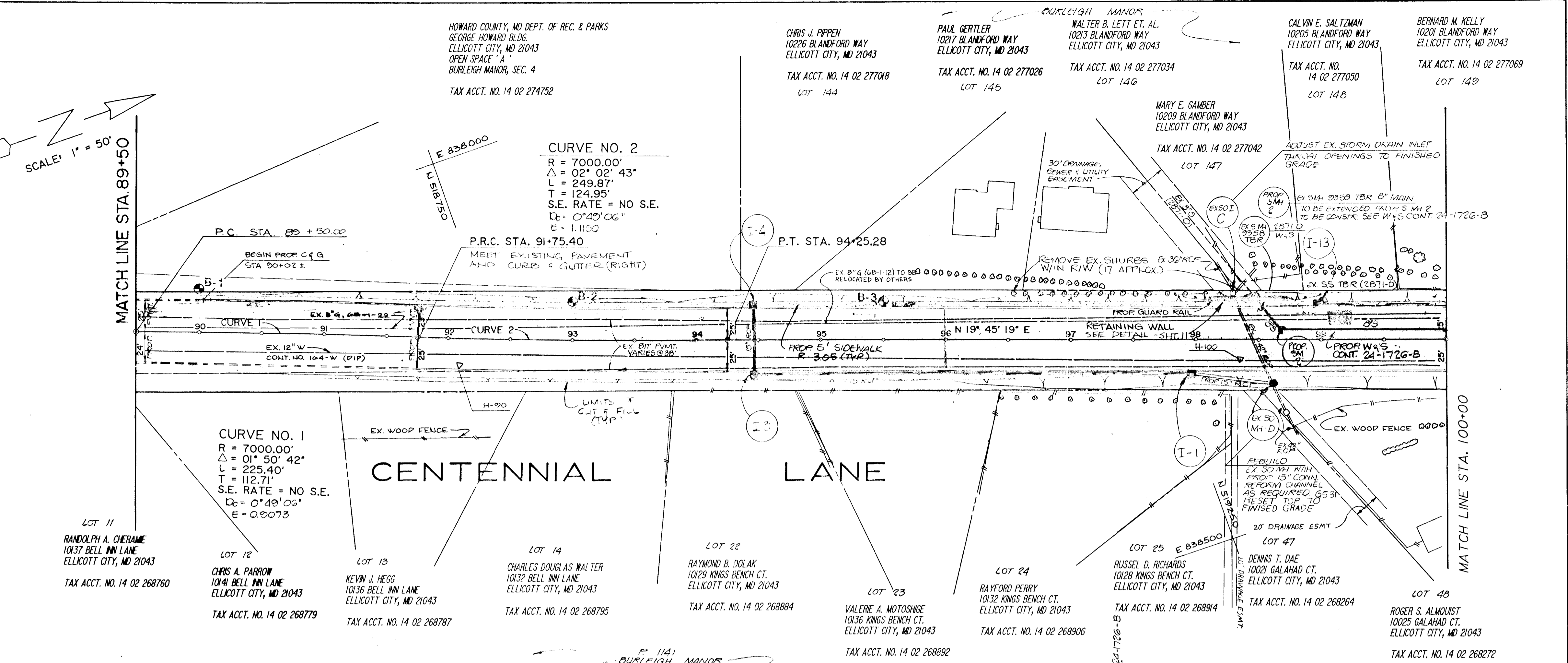
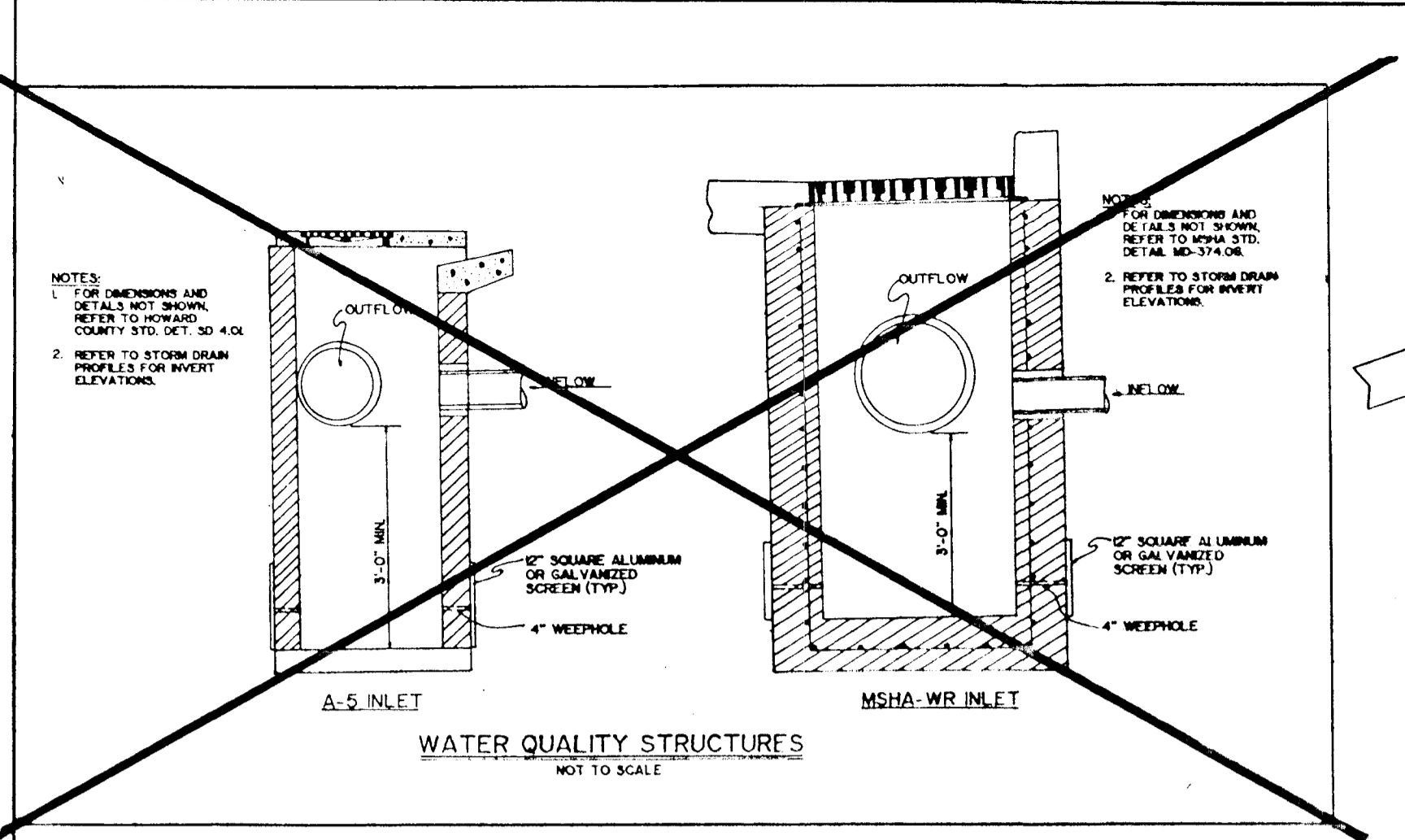


DES: STAFF	
DRN: KAM	
CHK: JBM	
DATE: 10/95	
BY: NO.	REVISION
	DATE

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



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. Lee - 12/19/91
 DIRECTOR OF PUBLIC WORKS DATE

William W. Williams - 12/19/91
 CHIEF, BUREAU OF ENGINEERING DATE

Blair W. Williams - 12/19/91
 CHIEF, BUREAU OF HIGHWAYS DATE

MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 481-0078 D.C. Metro: (301) 621-5768

STATE OF MARYLAND
 PROFESSIONAL ENGINEER

DES: STAFF
 KAM
 DRN: KAM
 CHK: JBM
 DATE: 10/91

Eliminate watermain relocation this project
 New Proposed Grade Line (By Howard Co)
 JAN 92
 FEB 92

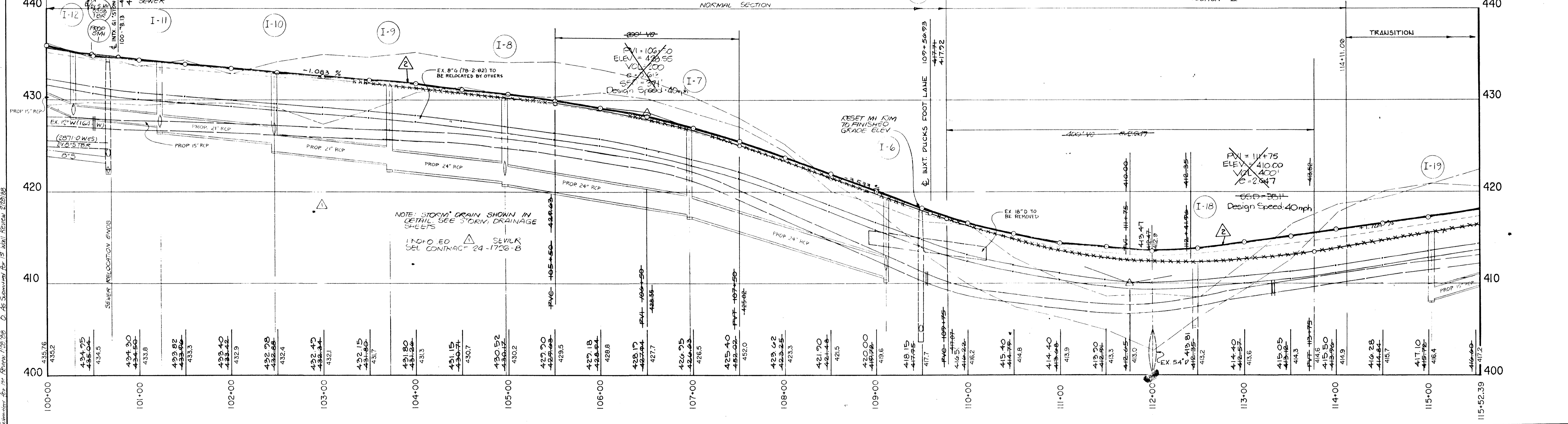
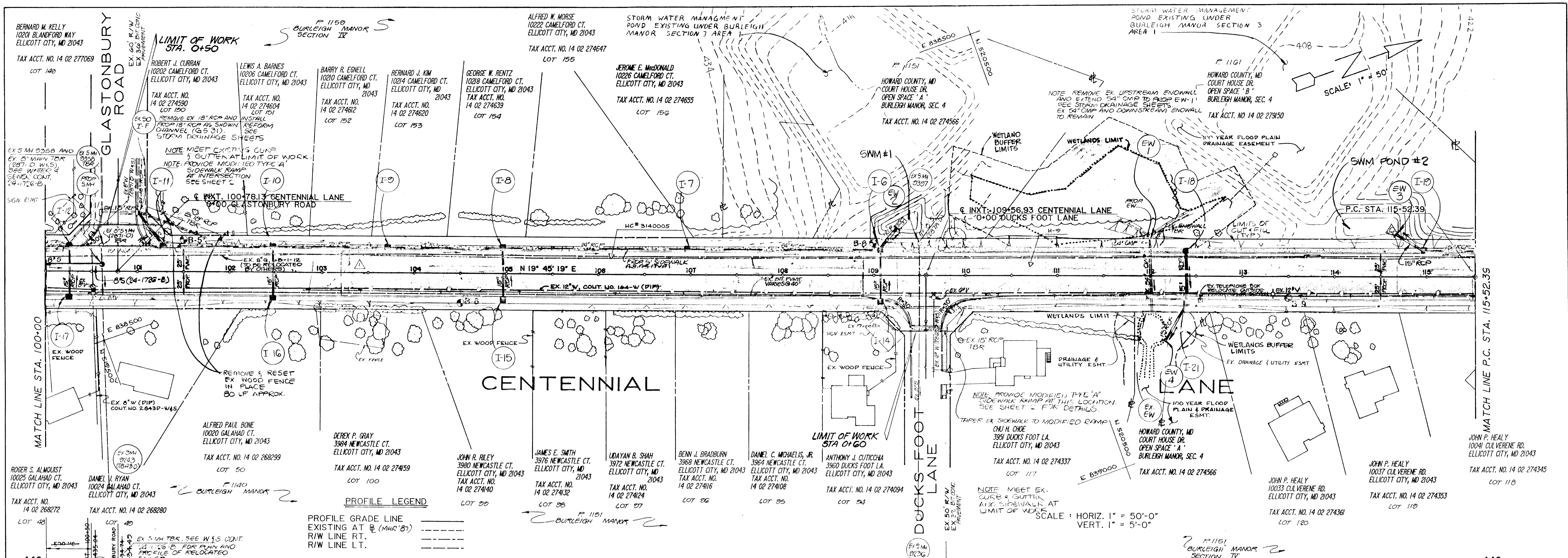
PLAN & PROFILE
 STA. 89+50 TO STA. 100+00
 CENTENNIAL LANE

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 3 OF 27

1175

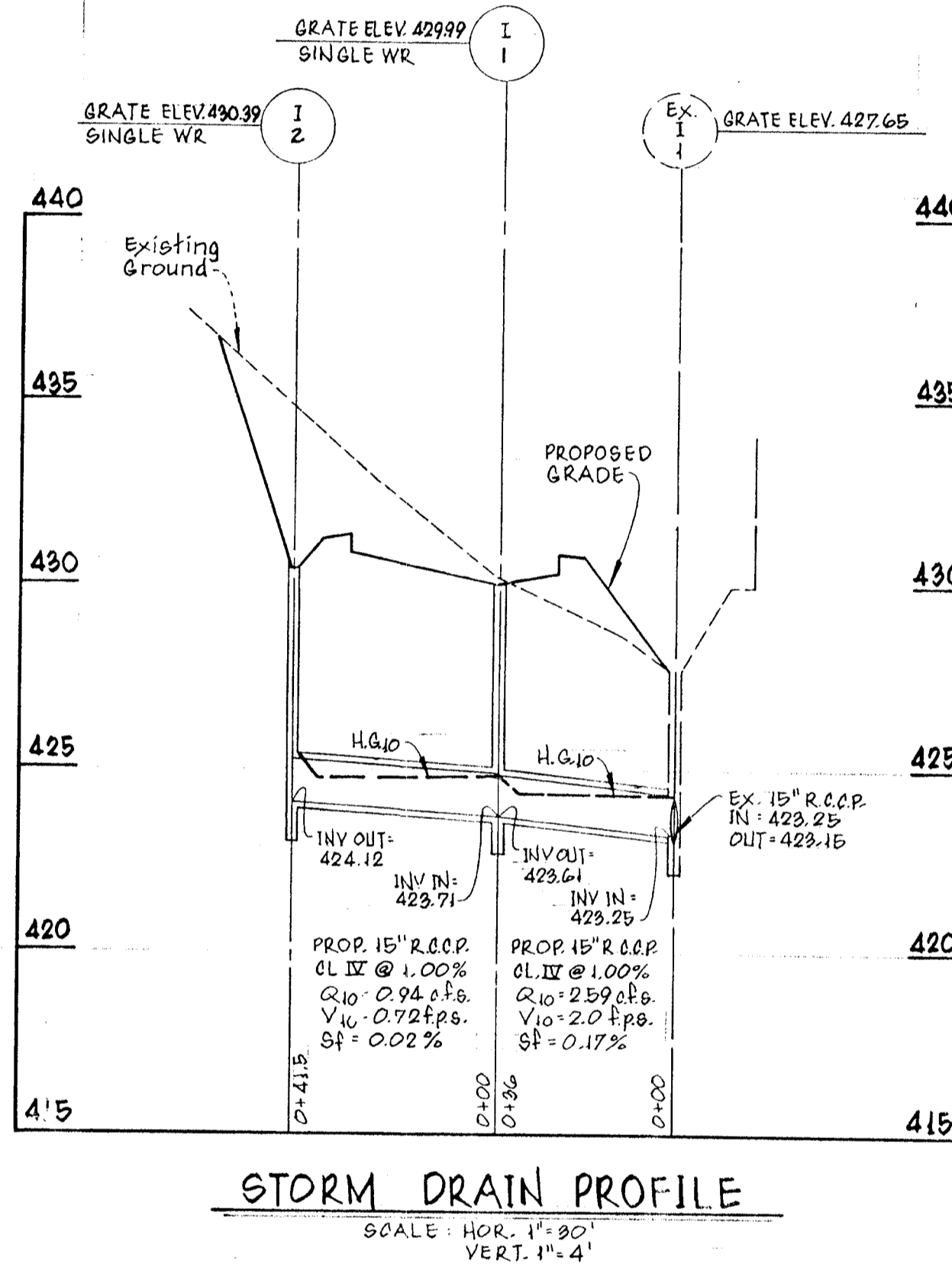
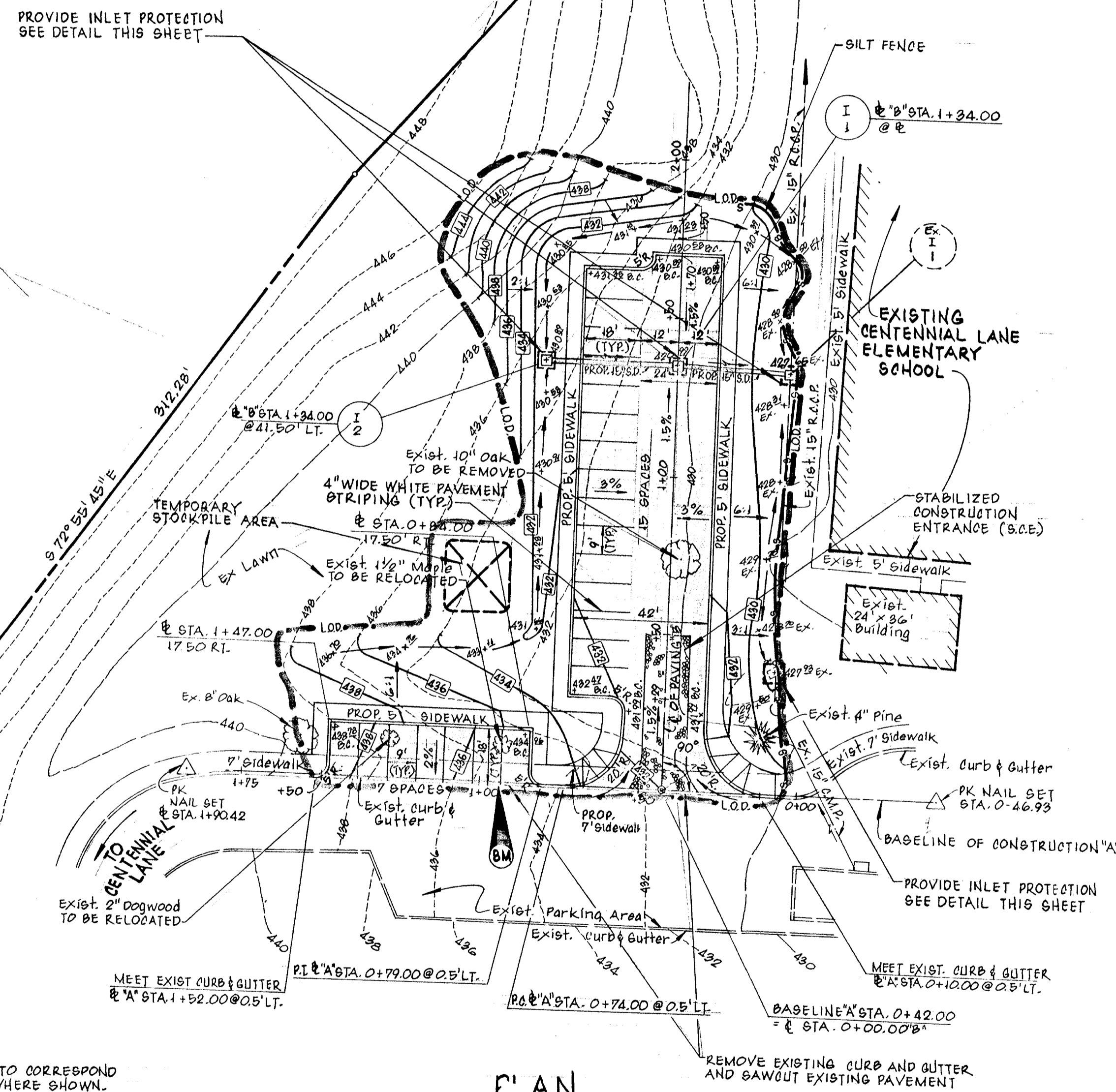
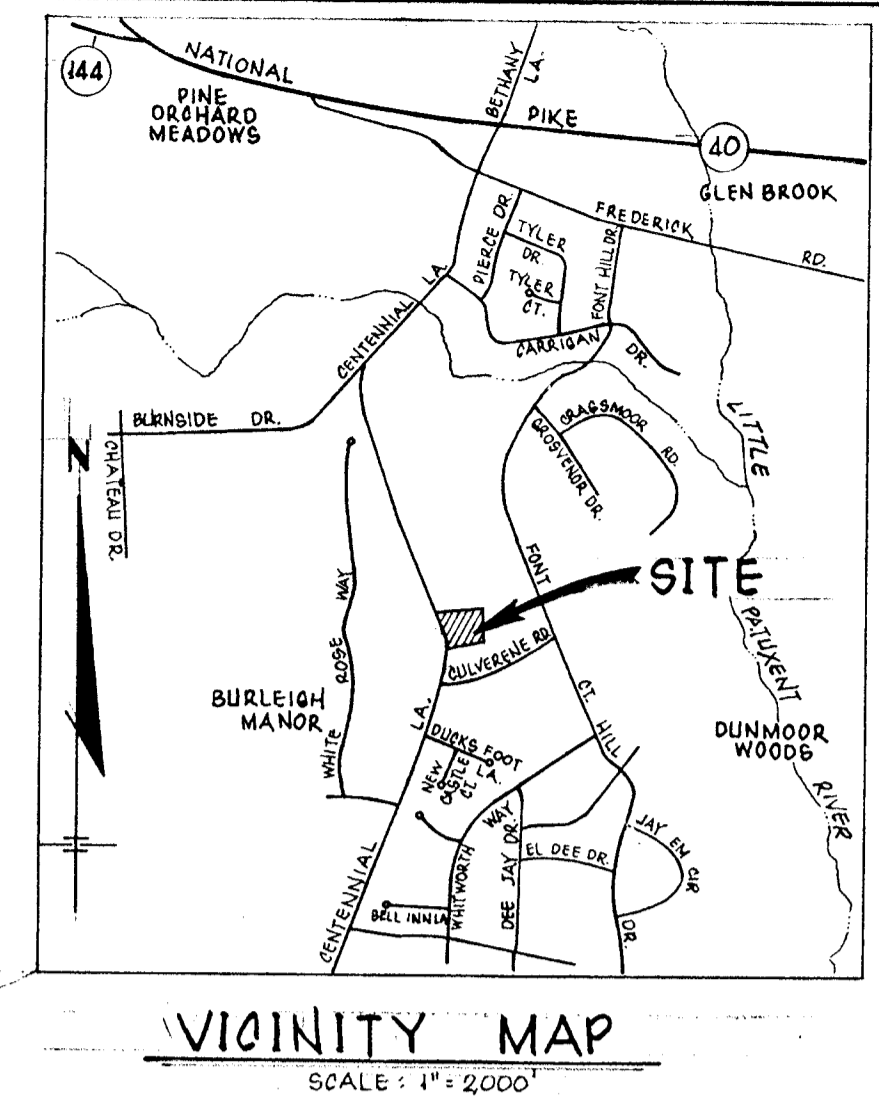
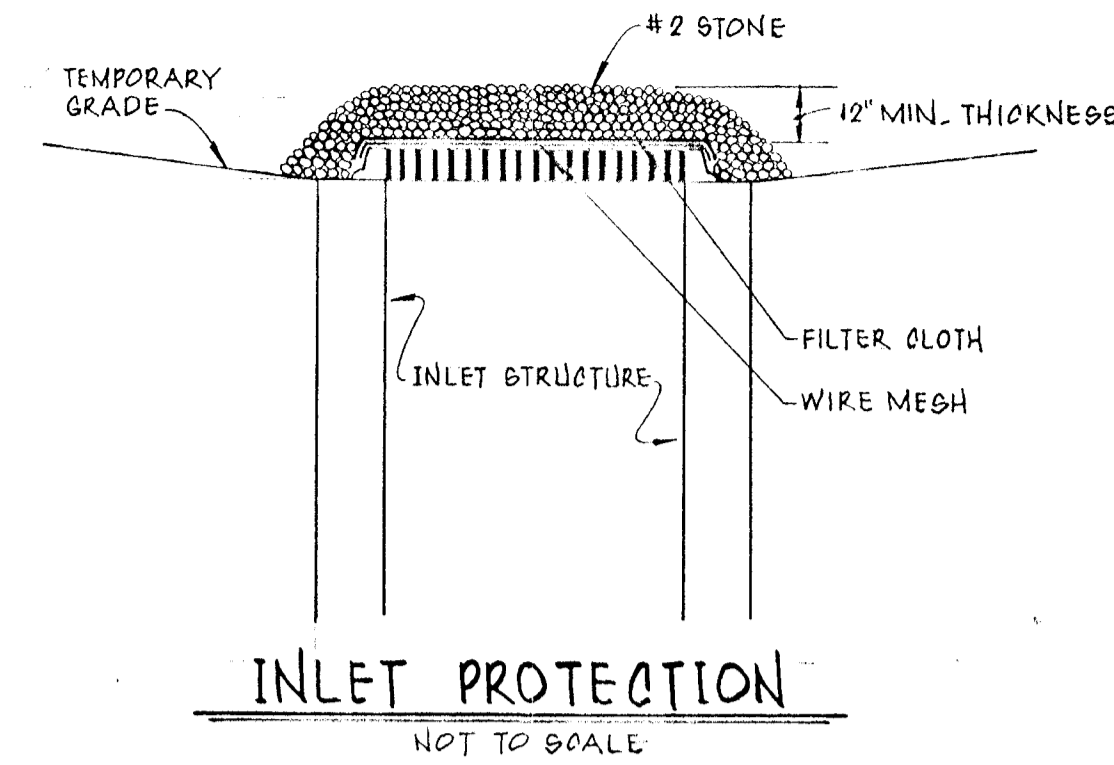
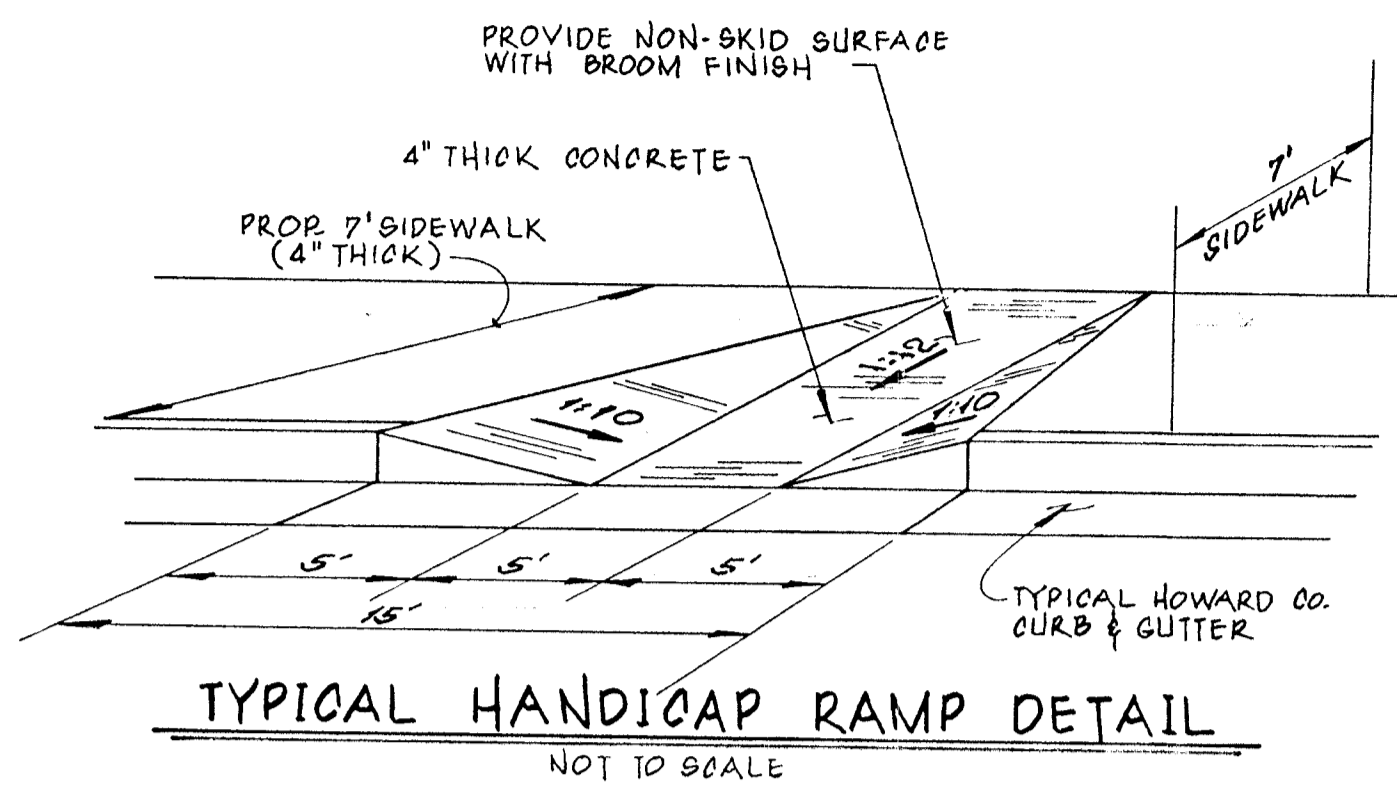
BROWN & CALDWELL, INC. AS SUBMITTER FOR PERMITS REVIEW 1/20/92
 C. A. Summers, Inc. as Reviewer 1/20/92



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director: <i>Samuel J. ...</i> 12/1/19 Chief, Bureau of Engineering: <i>...</i> 12/3/19		3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350 (301) 461-0078 D.C. Metro: (202) 621-5700				DES: STAFF DRN: KAM CHK: JBM DATE: 10/01	Eliminate watermain relocation this project New Proposed Grade Line (By Howard Co.) JAN 02 FEB 03	PLAN & PROFILE 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 4 OF 27
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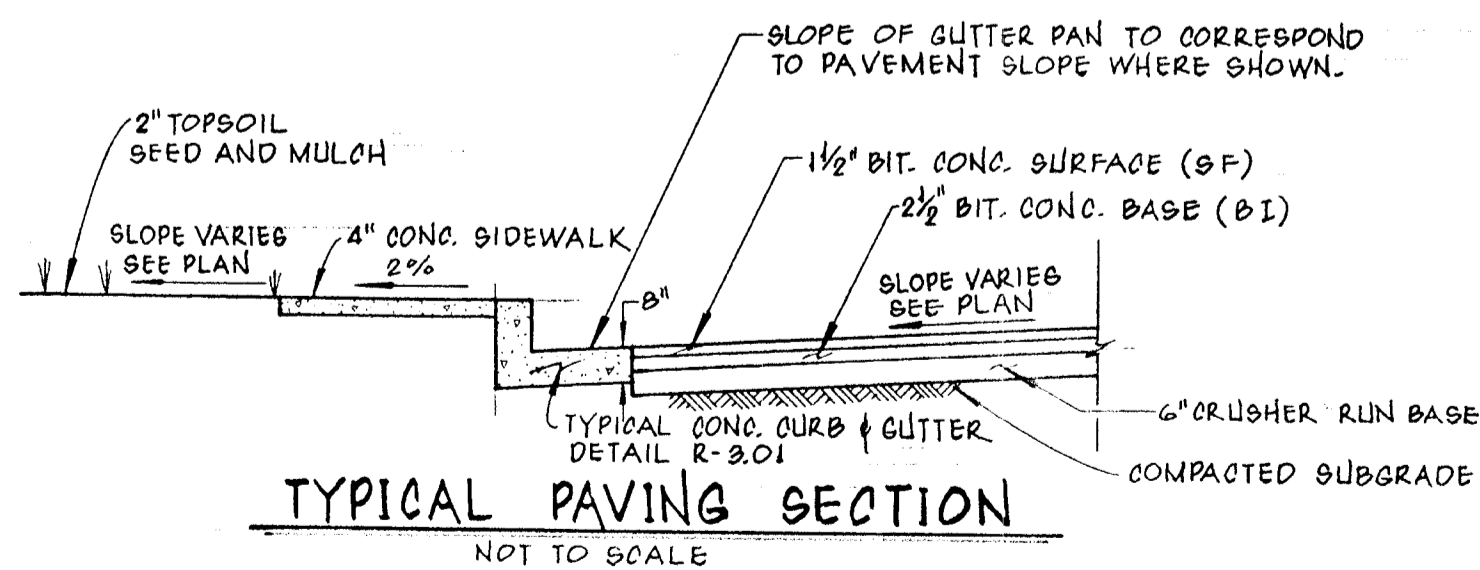
1196

BRUNING 44-132-69150, C-25, Submission for Review, 1/28/19, D. As Submitted for Review, 1/28/19, D. As Submitted for Review, 1/28/19



GENERAL NOTES

- ALL SLOPES AND/OR DISTURBED AREAS SHALL RECEIVE SEEDING AND MULCHING EXCEPT WHERE OTHERWISE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- TREES AND SHRUBBERY ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT.
- GRADING SHALL BE DONE IN SUCH A MANNER SO AS TO INSURE POSITIVE DRAINAGE TO THE PROPOSED INLET STRUCTURES.
- HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON ASSUMED DATUM PROVIDED BY HOWARD COUNTY. BASELINE "A" STATION 0+92, BOTTOM OF CURB ELEVATION 423.00.
- THE CONTRACTOR SHALL NOTIFY THE PRINCIPAL OF THE CENTENNIAL LANE ELEMENTARY SCHOOL PRIOR TO COMMENCING WORK SHOWN ON THIS PLAN.
- THE CONTRACTOR SHALL ERECT AND MAINTAIN TEMPORARY CONSTRUCTION FENCING ALONG THE PERIMETER OF THE PROJECT THROUGHOUT THE DURATION OF THE CONSTRUCTION ACTIVITY.
- SITE ANALYSIS:
 - DISTURBED AREA: 19,600 S.F.
 - PREDOMINANT SOIL TYPE: CHB2 - CHESTER SILT LOAM 3-8% SLOPES MODERATELY ERODED.
 - CUT 398 C.Y.
 - FILL 392 C.Y.
 - AREA TO VEGETATIVELY STABILIZED: 7200 S.F.

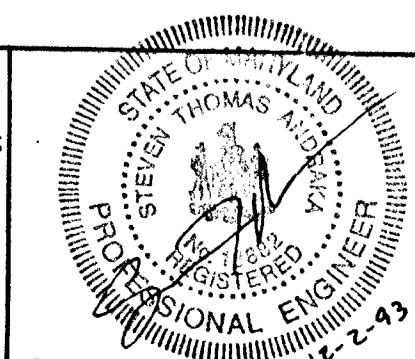


BENCHMARK:
BASELINE "A" STATION 0+92
BOTTOM OF EXISTING CURB
ELEV. 423.00

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. ... 7/3/94 ... 5/27/94
DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF ENGINEERING DATE
... 7-5-94 ... 5/27/94
CHIEF, BUREAU OF HIGHWAYS DATE CHIEF, TRANSPORTATION PROJECTS AND WATERBOD MANAGEMENT DIVISION DATE

df CONSULTING ENGINEERS, SURVEYORS AND LAND PLANNERS
504 BALTIMORE/ANNAPOLIS BLVD.
SEVERNA PARK, MD 21146 647-2727

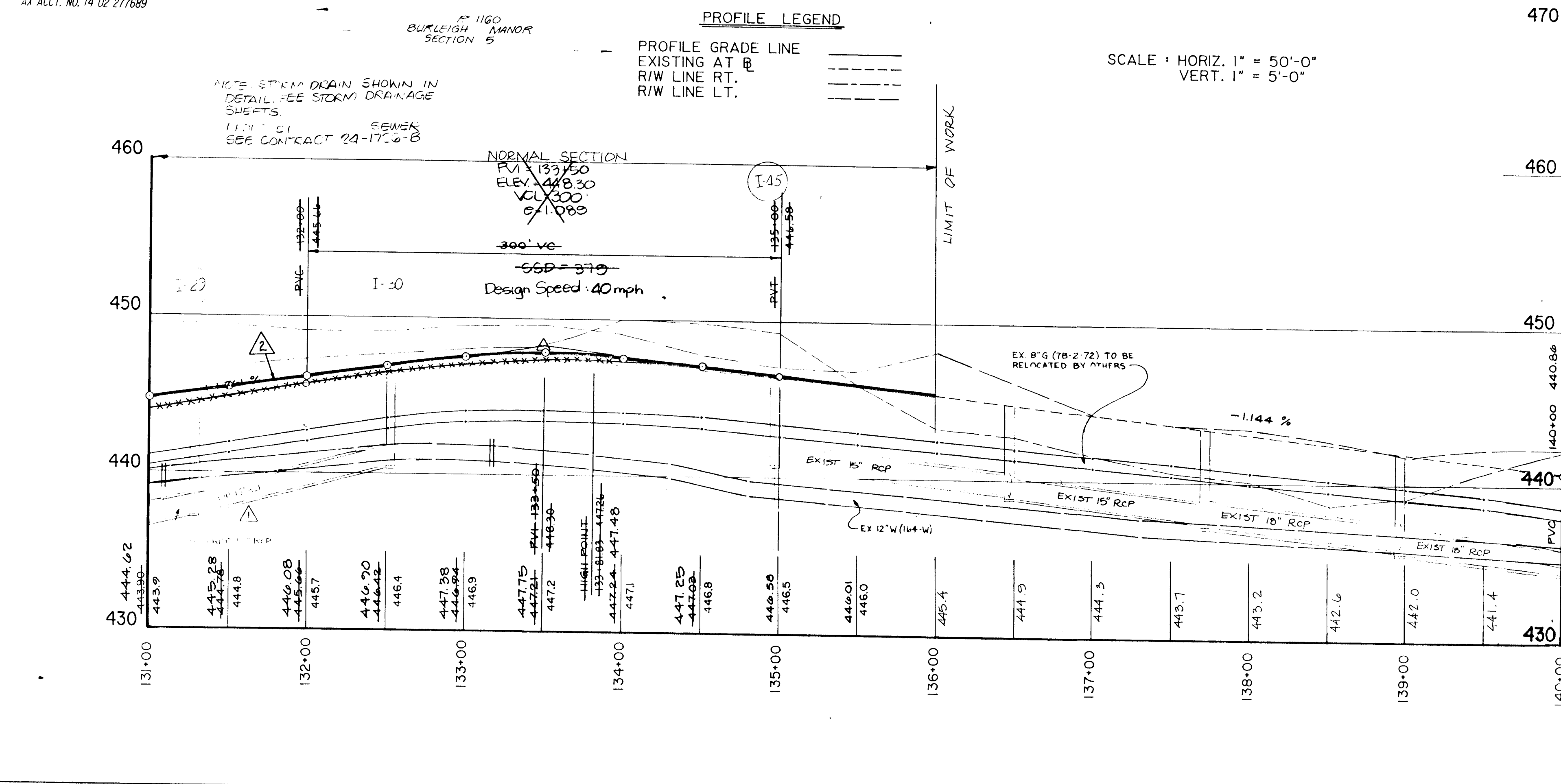
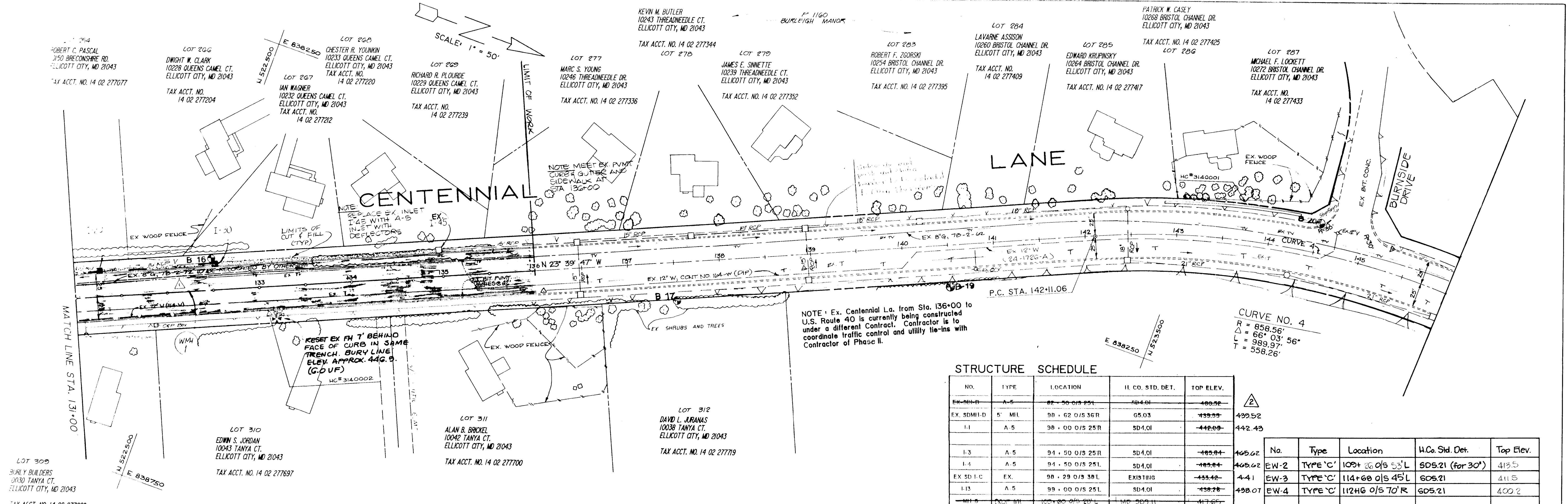


DES: D.D.S.			
DRN: R.J.S.			
CHK: M.M.			
DATE: 12/93			
BY	NO.	REVISION	

SITE AND GRADING AND SEDIMENT CONTROL PLAN
CENTENNIAL LANE ELEMENTARY
SCHOOL PARKING LOT
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

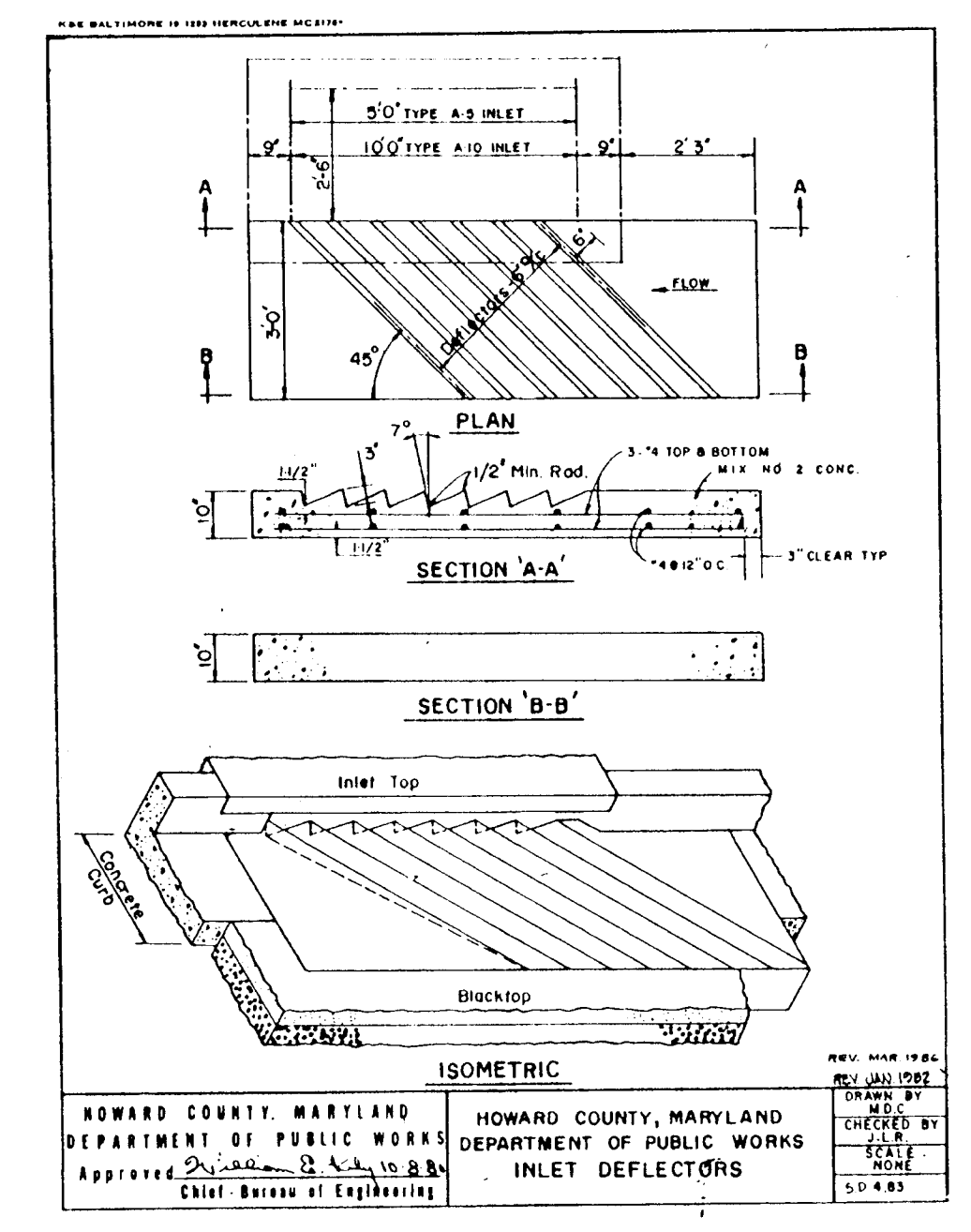
SCALE AS SHOWN
SHEET 5A OF 27



STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	II. CO. STD. DET.	TOP ELEV.
EX SDI-B	A-5	82 + 30 O/S 25L	SD4.0I	400.52
EX SDMI-D	5' MII	90 + 62 O/S 36R	G5.03	439.35
I-1	A-5	98 + 00 O/S 25R	SD4.0I	442.09
I-3	A-5	91 + 50 O/S 25II	SD4.0I	405.04
I-4	A-5	91 + 50 O/S 25II	SD4.0I	405.04
EX SDI-C	EX.	98 + 29 O/S 38L	EXISTING	433.42
I-13	A-5	99 + 00 O/S 25L	SD4.0I	438.78
I-6	A-5	109 + 10 O/S 25L	SD4.0I	419.39
I-7	A-5	107 + 00 O/S 25L	SD4.0I	420.67
I-8	A-5	105 + 00 O/S 25L	SD4.0I	430.81
I-9	A-5	103 + 75 O/S 25L	SD4.0I	431.57
I-10	A-5	102 + 50 O/S 25L	SD4.0I	432.92
EX SDI-F	EXISTING	EXISTING	EXISTING	EXISTING
I-11	A-5	101 + 32 O/S 25L	SD4.0I	434.17
I-12	A-5	100 + 32 O/S 25L	SD4.0I	435.30
I-14	A-5	109 + 10 O/S 25R	SD4.0I	419.39
I-15	A-5	105 + 00 O/S 25R	SD4.0I	430.81
I-16	A-5	102 + 50 O/S 25R	SD4.0I	432.92
I-17	A-5	100 + 32 O/S 25R	SD4.0I	434.17
I-18	A-5	102 + 40 O/S 25L	SD4.0I	432.92
I-19	A-5	105 + 00 O/S 25L	SD4.0I	431.57
MH-22-A	4' MH	OVER EX 30" RCP (118.65 @ 26L)	G5.0I	442.67
I-21	A-5	102 + 40 O/S 25R	SD4.0I	432.92
EW-1	TYPE 'C'	102 + 00 O/S 41L	SD5.1I	408.40
EX-EW	EXISTING	102 + 03 O/S 41R	EXISTING	408.91
I-20	A-5	107 + 00 O/S 25L	SD4.0I	419.39
I-22-B	Y-1	OVER EX 24" RCP (118.72 @ 38L)	SD4.14	417.46
I-22	A-5	109 + 75 O/S 25L	SD4.0I	424.11
I-23	A-5	121 + 00 O/S 25L	SD4.0I	426.94
I-24	A-5	123 + 00 O/S 25L	SD4.0I	429.05
I-25	OROP MH	125 + 00 O/S 25L	MD 303.11	433.35
I-26	A-5	127 + 00 O/S 25L	SD4.0I	436.87
MH-27	4MH	128 + 15 O/S 28L	G5.0I	438.97
JC-1	JC	128 + 98 O/S 27L	SDU2	439.77
EX SDI-II	EXISTING	EXISTING	EXISTING	EXISTING
EX SDI-I	EXISTING	EXISTING	EXISTING	EXISTING
I-28	A-5	130 + 00 O/S 25L	SD4.0I	442.09
I-31	A-5	125 + 00 O/S 25R	SD4.0I	433.66
I-32	A-5	128 + 15 O/S 25R	SD4.0I	430.66
I-33	A-5	130 + 00 O/S 25R	SD4.0I	439.77
I-29	A-5	131 + 25 O/S 25R	SD4.0I	444.30
I-30	A-5	132 + 50 O/S 25L	SD4.0I	446.60
I-45	EX K to A-5	EXISTING	SD4.0I	446.60

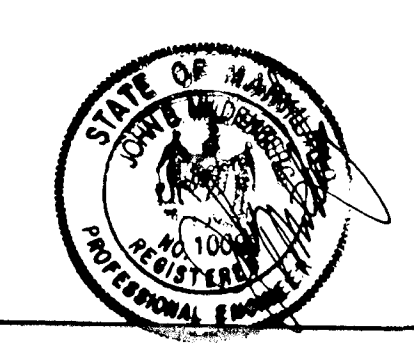
No.	Type	Location	II Co. Std. Det.	Top Elev.
EW-2	TYPE 'C'	109 + 26 O/S 53' L	SD5.2I (for 30')	413.5
EW-3	TYPE 'C'	114 + 60 O/S 45' L	SD5.2I	411.5
EW-4	TYPE 'C'	112 + 6 O/S 70' R	SD5.2I	400.2



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.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 12/14/11
 12-3-11

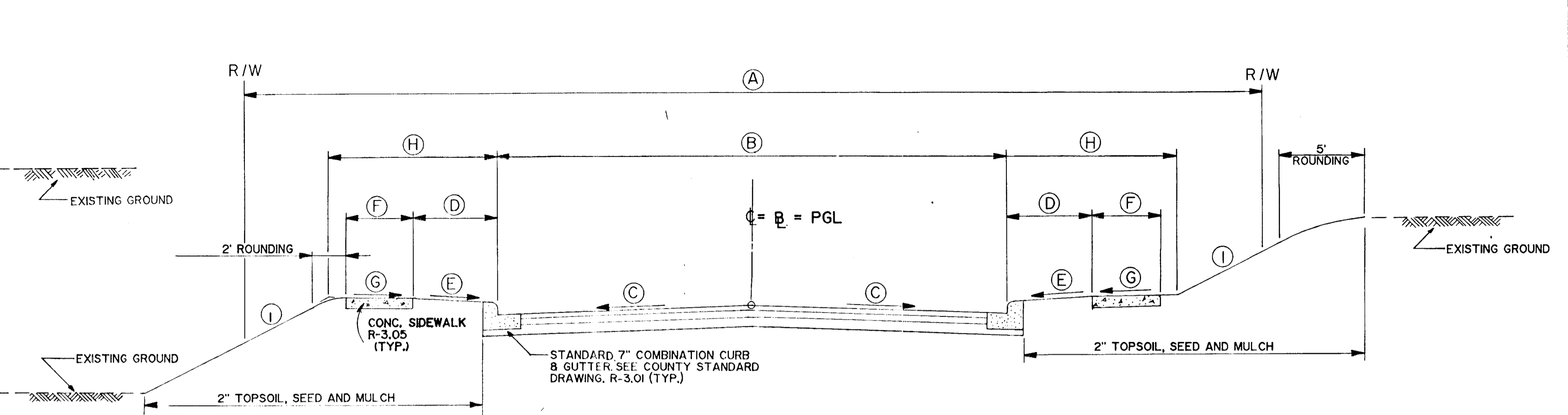
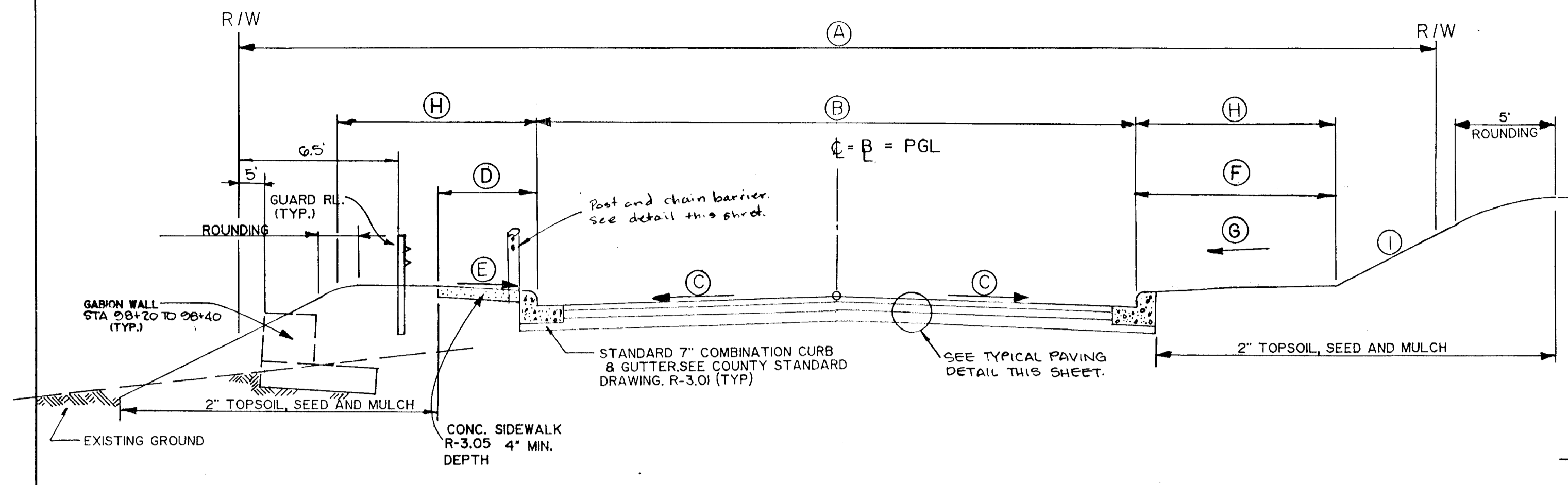
MILDENBERG, MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
 (301) 461-0070 D.C. Metro (301) 621-5768



DES: STAFF	KAM	1	Eliminate watermain Relocation.	JAN 02
DRN: KAM		2	New Proposed Grade Line (By Howard Co.)	FEB 03
CHK: JEM				
DATE: 10/31	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	A R/W	B Pavement Width	C Cross Slope	D SIDEWALK	E Slope	F Grass Strip	G Slope	H Transition to Max. Slope		I Max. Slope	Design Speed	Classification
								LEFT	RIGHT			
81+50 to 91+75	80'	45'	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%	8'	8'	2:1	35 mph.	Minor Arterial
109+00 to 110+50	80'	50'	2%	5'	4%	8'	4%	6'	8'	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.	"

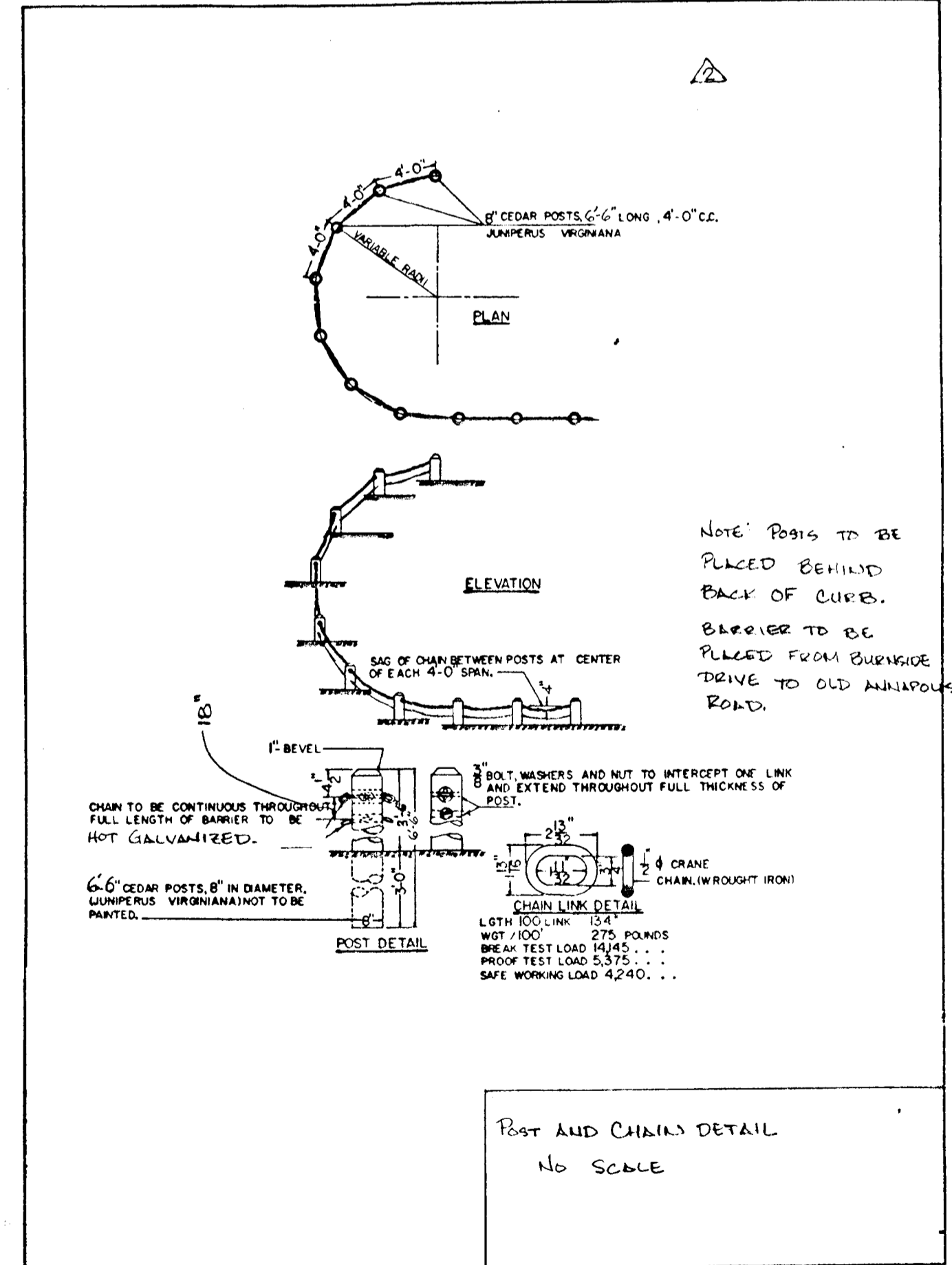
GUARD RAIL TABULATION

TRAIL END ANCHORAGE	97+85	0/5	40' L
TRANSITION TO NORMAL	98+10	0/5	33.5' L
TRANSITION FROM NORMAL	98+75	0/5	33.5' L
TRAIL END ANCHORAGE	99+01	0/5	40' L

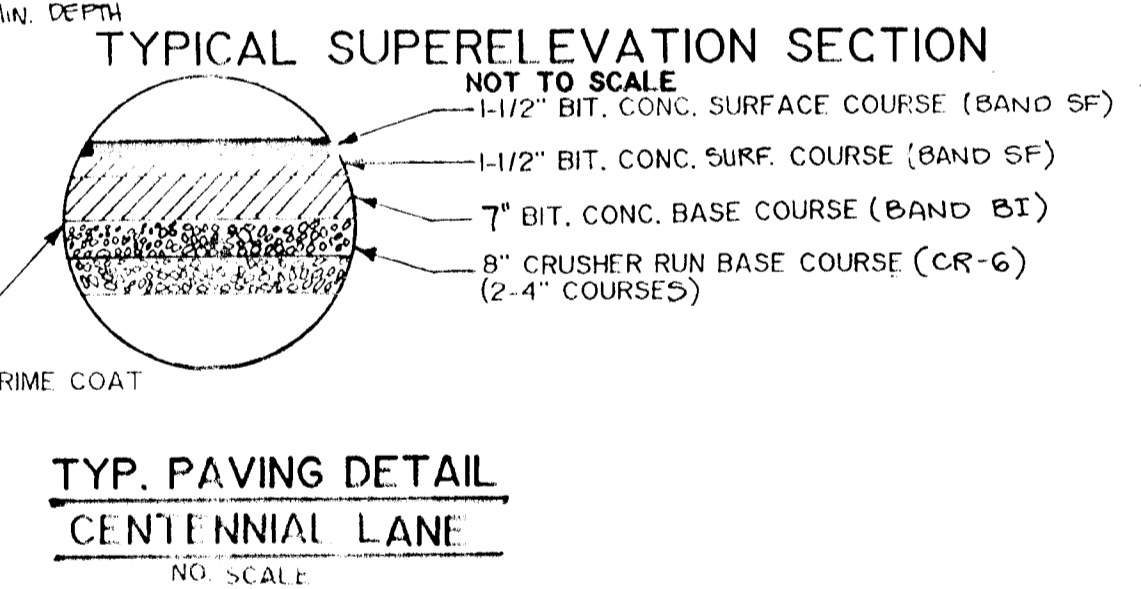
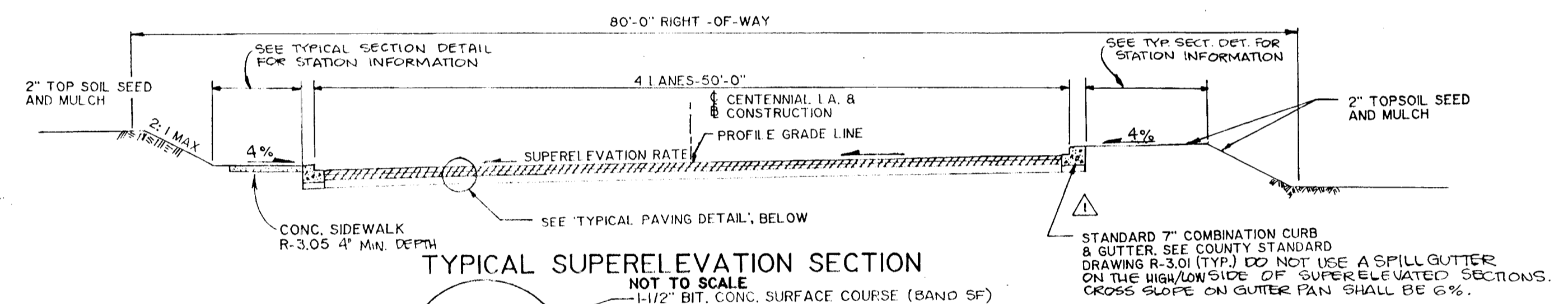
STATIONING	ROADWAY	A R/W	B Pavement Width	C Cross Slope	D Grass Strip	E Slope	F Sidewalk Width	G Slope	H Transition to Max. Slope	I Max. Slope	Type pvtl.	Classification
0+00 TO 0+00	S. Breconshire Rd.	60'	36'	3%	7'	4%	4'	2%	12'	2:1	P-3	Minor Collector
0+00 TO 0+00	Old Annapolis Rd.	80'	44'	2%	9'	4%	4'	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	Culverene Road	50'	32'	3%	4'	4%	4'	2%	9'	2:1	P-2	Local Street
0+00 TO 1+15	N. Breconshire Road	60'	36'	3%	7'	4%	4'	2%	12'	2:1	P-3	Minor Collector

TYPICAL CLOSED SECTION ROAD - CENTENNIAL LANE

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



SUPERELEVATION TABULATION

BEGIN SUPERELEVATION TRANSITION	114+11.06
BEGIN FULL SUPERELEVATION	116+23.06
END FULL SUPERELEVATION	122+38.63
END SUPERELEVATION TRANSITION	124+50.63

* SEE SUPERELEVATION HORIZONTAL AND VERTICAL CONTROL SHEET FOR MORE INFORMATION.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. ... 12/4/91
Director of Public Works
Charles Anderson, Chief of Highways
1/4/91

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



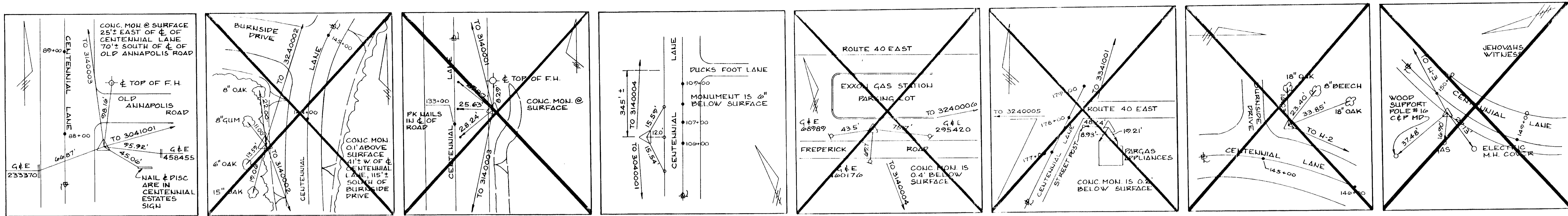
DES: JEM/KAM	KAM	1	Eliminate spill gutter from super-elevated sections.	JAN 92
DRN: STAFF		2	Post and chain barrier added per Director's decision and agreement with homeowners.	MAY 92
CHK: JEM				
DATE: 10/91	BY: NO.		REVISION	DATE

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

1196



HOWARD CO. # 3040001
 N 518298.243
 E 838017.587
 ELEV = 494.42
 STA 87+70 ± 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 135+10 ± 0/5 30' ± R

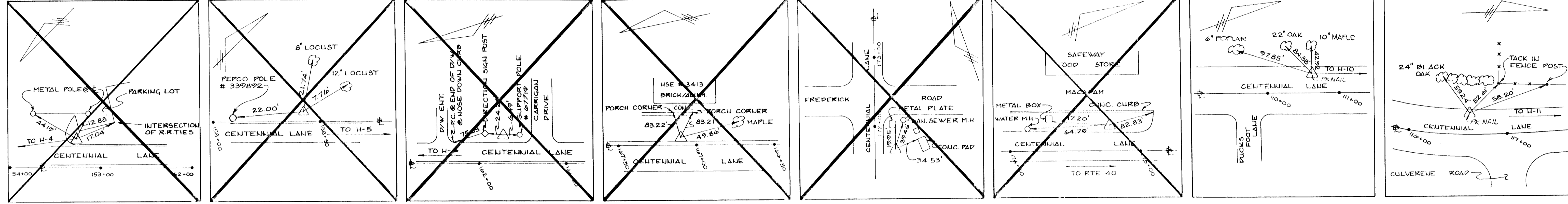
HOWARD CO. # 3140005
 N 520049.576
 E 838594.190
 ELEV = 426.99
 STA 106+15 ± 0/5 20' ± L

HOWARD CO. # 3240005
 N 526615.377
 E 838351.344

HOWARD CO. # 3240006
 N 526558.644
 E 839530.099
 ELEV = 408.33
 STA 178+04 ± 0/5 76' ± R

△ H-1
 N 523713.218
 E 838046.549
 ELEV = 418.04
 STA 145+30 ± 0/5 2.5' ± L

△ H-2
 N 524158.117
 E 838169.845
 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 32' ± R

△ H-4
 N 524800.695
 E 838721.728
 ELEV = 361.89
 STA 158+37 ± 0/5 3' ± L

△ H-5
 N 525046.407
 E 838721.728
 ELEV = 361.89
 STA 101+83 ± 0/5 31' ± R

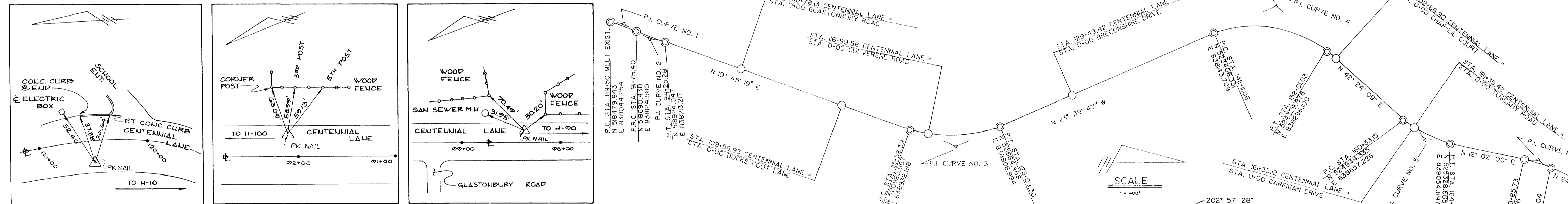
△ H-6
 N 525566.666
 E 839108.332
 ELEV = 404.30
 STA 107+15 ± 0/5 3' ± R

△ H-7
 N 526004.030
 E 839217.444
 ELEV = 425.31
 STA 171+05 ± 0/5 14' ± R

△ H-8
 N 526317.482
 E 839296.061
 ELEV = 476.35
 STA 174+85 ± 0/5 34' ± L

△ H-9
 N 520476.628
 E 838757.086
 ELEV = 412.88
 STA 110+70 ± 0/5 12' ± L

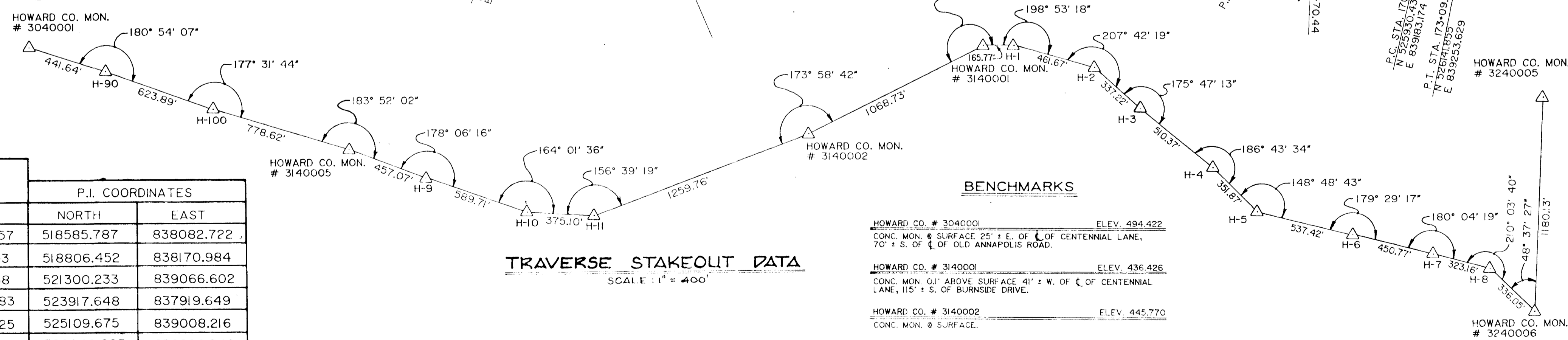
△ H-10
 N 521034.270
 E 838948.916
 ELEV = 416.69
 STA 116+00 ± 0/5 10' ± L



△ 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 = 479.99
 STA 92+10 ± 0/5 22' ± R

△ H-100
 N 519305.026
 E 838366.393
 ELEV = 439.68
 STA 98+35 ± 0/5 10' ± R



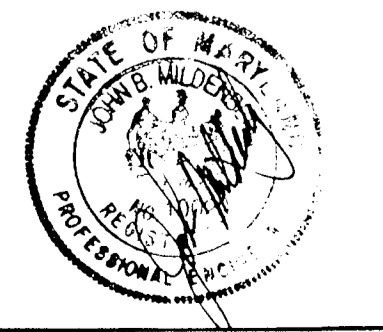
CURVE NO.	DELTA	DC	RADIUS	TAN	ARC	EXT	CHORD	CENTER CURVE COORDINATES		P.I. COORDINATES	
								NORTH	EAST	NORTH	EAST
1	01° 50' 42"	00° 49' 07"	7000.00'	112.71'	225.40'	0.91'	N 20° 52' 41" E, 225.39'	516090.803	844623.957	518585.787	838082.722
2	02° 02' 43"	00° 49' 07"	7000.00'	124.95'	249.87'	1.12'	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 ELEV. 494.422
 CONC. MON. @ SURFACE 25' ± E. OF C. OF CENTENNIAL LANE,
 70' ± S. OF C. OF OLD ANNAPOLIS ROAD.
 HOWARD CO. # 3140001 ELEV. 436.426
 CONC. MON. 0'1" ABOVE SURFACE 41' ± W. OF C. OF CENTENNIAL
 LANE, 115' ± S. OF BURNSIDE DRIVE.
 HOWARD CO. # 3140002 ELEV. 445.770
 CONC. MON. @ SURFACE.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: James G. [Signature] 12/14/91
 Chief, Bureau of Engineering: [Signature] 12-3-91
 Chief, Bureau of Highways: [Signature] 12/14/91

MILDENBERG,
 MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 3300 North Ridge Road, Suite 225, Ellicott City, Maryland 21043-3350
 (301) 461-0078 U.C. Meter: (301) 621-5188



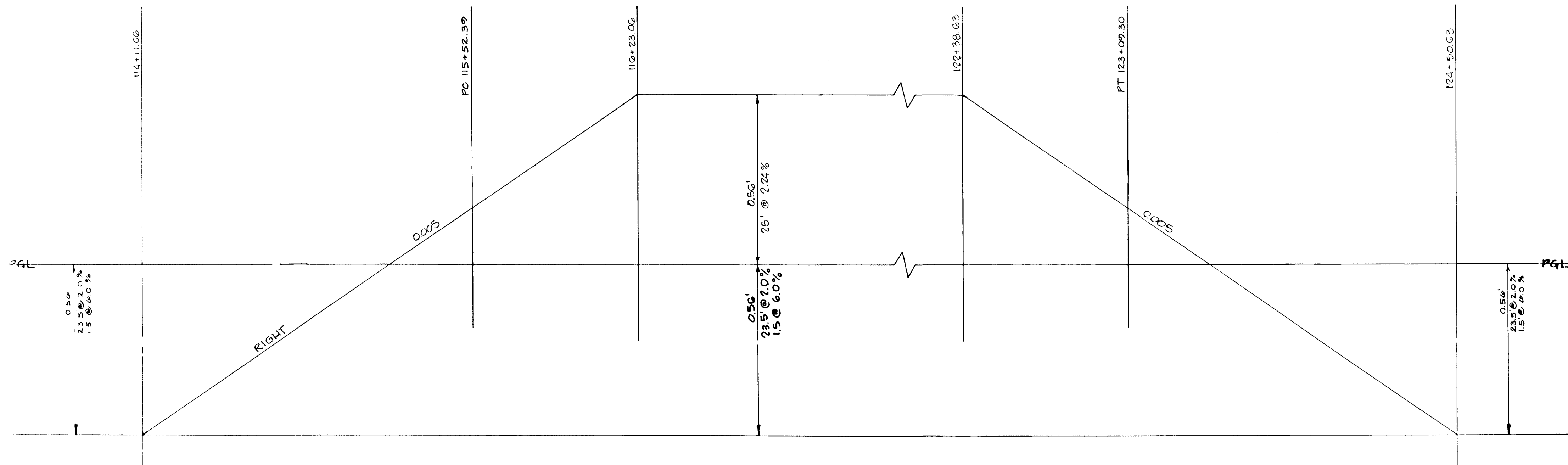
DESIGNER: JEM/KAM
 DRAWN: STAFF
 CHECKED: JEM
 DATE: 10/31
 BY: NO. REVISION DATE

HORIZONTAL & VERTICAL
 CONTROLS
 CENTENNIAL LANE
 600' SCALE MAP NO. BLOCK NO.

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

NOT TO SCALE
 SHEET 27 OF 27

11961

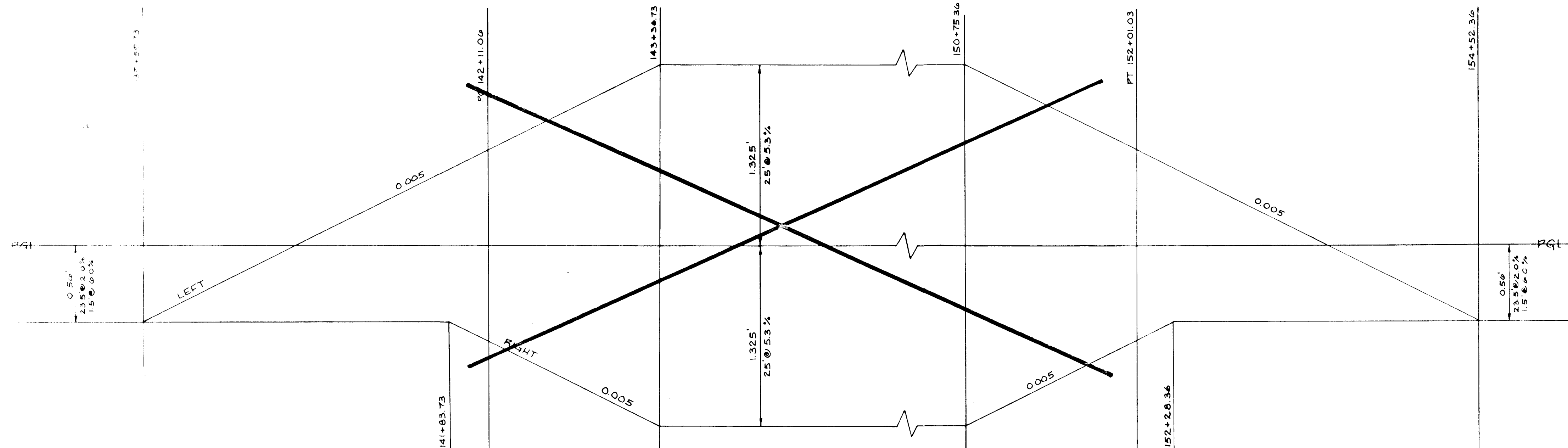


SUPERELEVATION DATA, CURVE 3

DESIGN SPEED 40 MPH HORIZONTAL CURVE R=98.84 P.C. STA. 115+52.39
 DEGREE OF CURVE 05-44-10 E = 76.25 P.T. STA. 123+09.70
 MAX. S.E.: 0.0024 LENGTH OF RUNOUT: 212'

TOP OF CURB	LT. F.L.	C.L. STATION	PGL ELEV.	RT. F.L.	TOP OF CURB
414.18	413.60	114 + 11.06	414.16	413.60	414.18
414.86	414.28	114 + 50.00	414.84	414.49	415.07
415.74	415.16	115 + .00	415.72	415.63	416.21
416.62	416.04	115 + 50.00	416.60	416.77	417.35
417.50	416.92	116 + .00	417.48	417.92	418.50
417.91	417.33	116 + 23.06	417.89	418.45	419.03
418.38	417.80	116 + 50.00	418.36	418.92	419.50
419.26	418.68	116 + 99.88	419.24	419.80	420.38
419.27	418.69	117 + .00	419.25	419.81	420.39
420.15	419.57	117 + 50.00	420.13	420.69	421.27
421.03	420.45	118 + .00	421.01	421.57	422.15
421.91	421.33	118 + 50.00	421.89	422.45	423.03
422.79	422.21	119 + .00	422.77	423.33	423.91
423.67	423.09	119 + 50.00	423.65	424.21	424.79
424.55	423.97	120 + .00	424.53	425.09	425.67
425.43	424.85	120 + 50.00	425.41	425.97	426.55
426.31	425.73	121 + .00	426.29	426.85	427.43
427.19	426.61	121 + 50.00	427.17	427.73	428.31
428.07	427.49	122 + .00	428.05	428.61	429.19
428.75	428.17	122 + 38.63	428.73	429.29	429.87
428.95	428.37	122 + 50.00	428.93	429.43	430.01
429.83	429.25	123 + .00	429.81	430.05	430.63
430.71	430.13	123 + 50.00	430.69	431.24	431.24
431.59	431.01	124 + .00	431.57	431.28	431.86
432.47	431.89	124 + 50.00	432.45	431.89	432.47
432.48	431.90	124 + 50.63	432.46	431.90	432.48

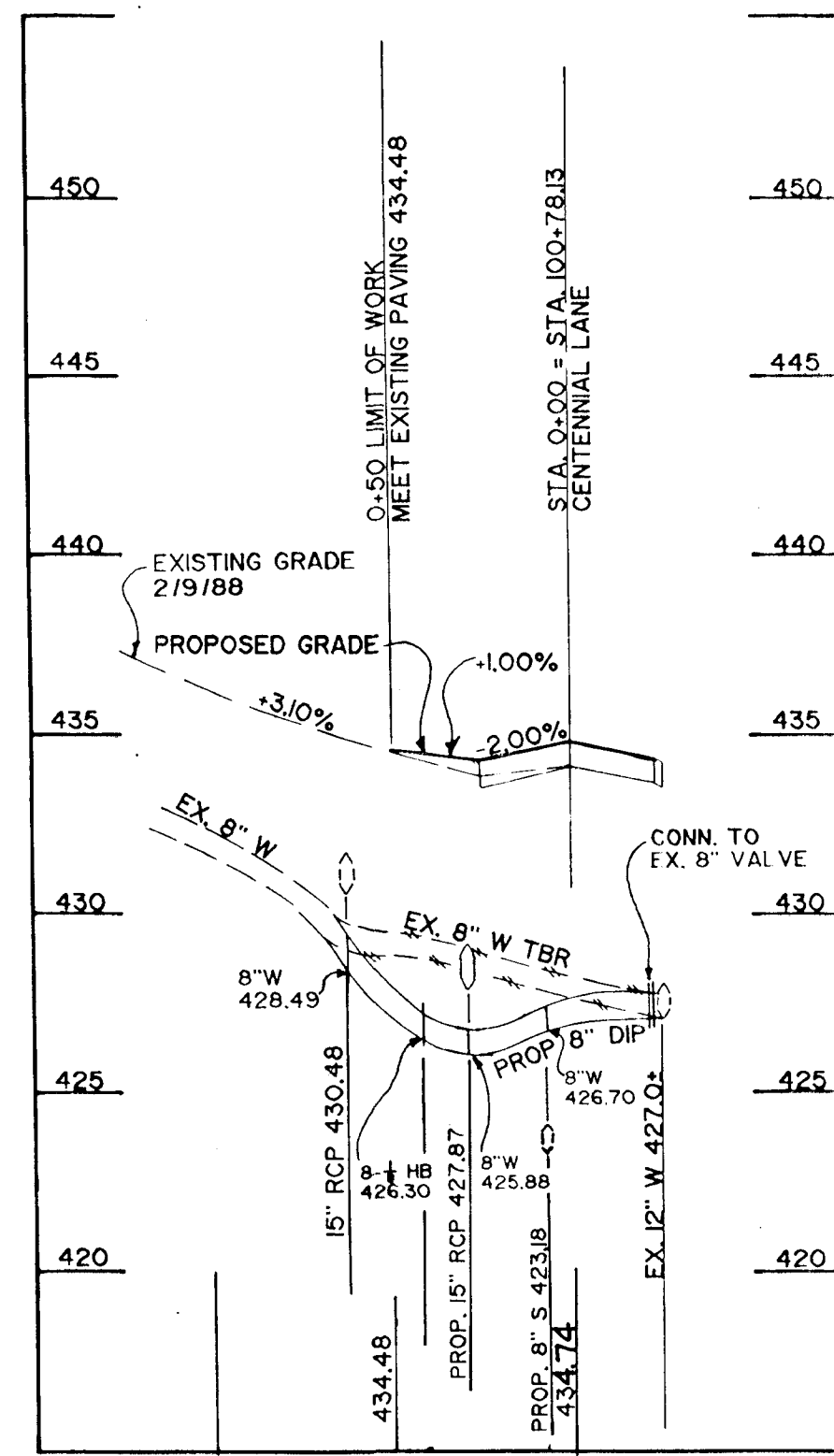
CURVE NO. 3 - STA. 113+11.06 TO STA. 125+50.63
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 12'



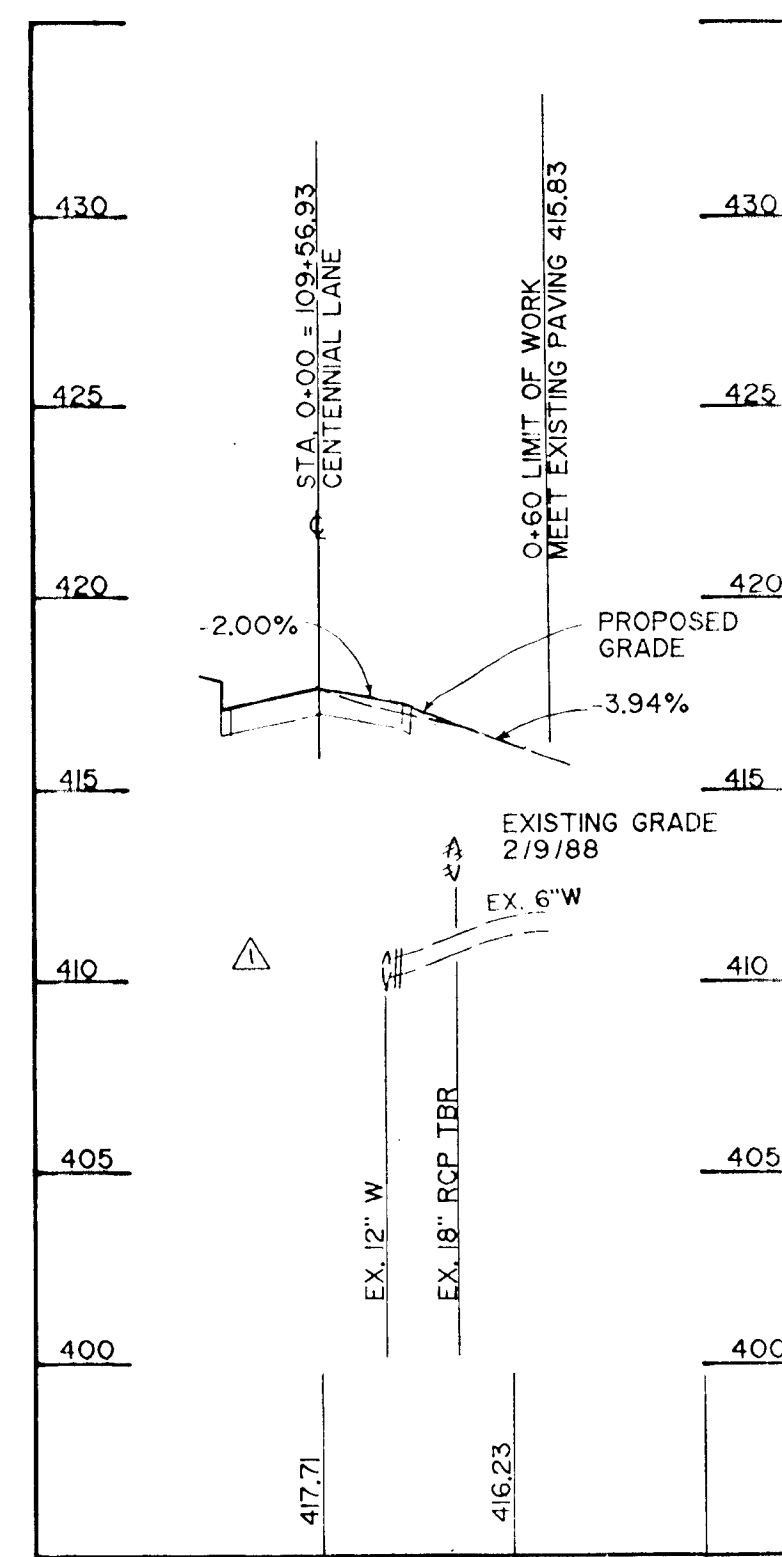
SUPERELEVATION DATA, CURVE 4

DESIGN SPEED 40 MPH HORIZONTAL CURVE R=856.56 P.C. STA. 142+11.06
 DEGREE OF CURVE 04-40-24 E = 143.54 P.T. STA. 152+11.03
 MAX. S.E.: 0.005 LENGTH OF RUNOUT: 377'

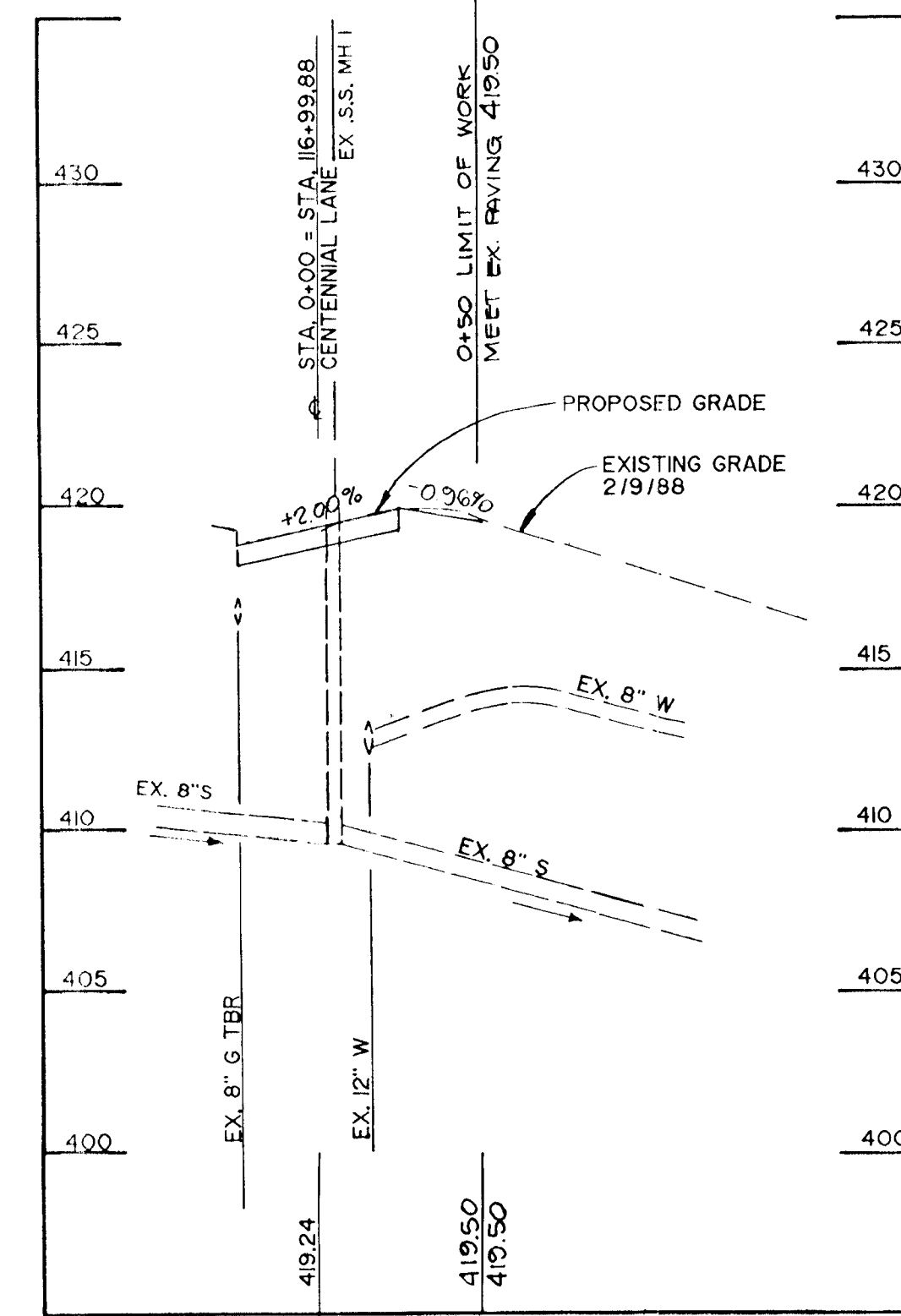
TOP OF CURB	LT. F.L.	C.L. STATION	PGL ELEV.	RT. F.L.	TOP OF CURB
441.34	440.74	139 + 59.73	441.32	440.74	441.34
441.10	440.50	140 + .00	440.86	440.50	440.50
440.62	440.02	140 + 50.00	440.13	439.57	440.17
439.81	439.21	141 + .00	439.07	438.51	439.11
438.69	438.09	141 + 50.00	437.76	437.14	437.74
437.75	437.15	141 + 82.73	436.99	436.03	436.43
437.24	436.64	142 + .00	436.00	435.36	435.96
436.80	436.20	142 + 11.06	435.58	434.88	435.48
435.47	434.87	142 + 50.00	435.98	435.09	435.49
435.30	434.70	143 + .00	435.36	434.50	435.10
434.63	434.03	143 + 50.00	435.76	434.90	435.40
433.75	433.15	143 + 99.88	436.16	435.29	435.89
433.01	432.41	144 + .00	436.56	435.69	436.29
432.27	431.67	144 + 50.00	436.96	436.09	436.69
431.53	430.93	144 + 99.88	437.36	436.49	437.09
430.79	430.19	145 + .00	437.76	436.89	437.49
430.05	429.45	145 + 50.00	438.16	437.29	437.89
429.31	428.71	145 + 99.88	438.56	437.69	438.29
428.57	427.97	146 + .00	438.96	438.09	438.69
427.83	427.23	146 + 23.06	439.36	438.49	438.99
427.09	426.49	146 + 50.00	439.76	438.89	439.29
426.35	425.75	146 + 99.88	440.16	439.29	439.69
425.61	425.01	147 + .00	440.56	439.69	440.09
424.87	424.27	147 + 23.06	440.96	440.09	440.49
424.13	423.53	147 + 50.00	441.36	440.49	440.89
423.39	422.79	147 + 73.06	441.76	440.89	441.29
422.65	422.05	147 + 96.06	442.16	441.29	441.69
421.91	421.31	148 + .00	442.56	441.69	442.09
421.17	420.57	148 + 23.06	442.96	442.09	442.49
420.43	419.83	148 + 46.06	443.36	442.49	442.89
419.69	419.09	148 + 69.06	443.76	442.89	443.29
418.95	418.35	148 + 92.06	444.16	443.29	443.69
418.21	417.61	148 + 115.06	444.56	443.69	444.09
417.47	416.87	148 + 138.06	444.96	444.09	444.49
416.73	416.13	148 + 161.06	445.36	444.49	444.89
416.00	415.40	148 + 184.06	445.76	444.89	445.29
415.26	414.66	148 + 207.06	446.16	445.29	445.69
414.52	413.92	148 + 230.06	446.56	445.69	446.09
413.78	413.18	148 + 253.06	446.96	446.09	446.49
413.04	412.44	148 + 276.06	447.36	446.49	446.89
412.30	411.70	148 + 299.06	447.76	446.89	447.29
411.56	410.96	148 + 322.06	448.16	447.29	447.69
410.82	410.22	148 + 345.06	448.56	447.69	448.09
410.08	409.48	148 + 368.06	448.96	448.09	448.49
409.34	408.74	148 + 391.06	449.36	448.49	448.89
408.60	408.00	148 + 414.06	449.76	448.89	449.29
407.86	407.26	148 + 437.06	450.16	449.29	449.69
407.12	406.52	148 + 460.06	450.56	449.69	450.09
406.38	405.78	148 + 483.06	450.96	450.09	450.49
405.64	405.04	148 + 506.06	451.36	450.49	450.89
404.90	404.30	148 + 529.06	451.76	450.89	451.29
404.16	403.56	148 + 552.06	452.16	451.29	451.69
403.42	402.82	148 + 575.06	452.56	451.69	452.09
402.68	402.08	148 + 598.06	452.96	452.09	452.49
401.94	401.34	148 + 621.06	453.36	452.49	452.89
401.20	400.60	148 + 644.06	453.76	452.89	453.29
400.46	399.86	148 + 667.06	454.16	453.29	453.69
399.72	399.12	148 + 690.06	454.56	453.69	454.09
398.98	398.38	148 + 713.06	454.96	454.09	454.49
398.24	397.64	148 + 736.06	455.36	454.49	454.89
397.50	396.90	148 + 759.06	455.76	454.89	455.29
396.76	396.16	148 + 782.06	456.16	455.29	455.69
396.02	395.42	148 + 805.06	456.56	455.69	456.09
395.28	394.68	148 + 828.06	456.96	456.09	456.49
394.54	393.94	148 + 851.06	457.36	456.49	456.89
393.80	393.20	148 + 874.06	457.76	456.89	457.29
393.06	392.46	148 + 897.06	458.16	457.29	457.69
392.32	391.72	148 + 920.06	458.56	457.69	458.09
391.58	390.98	148 + 943.06	458.96	458.09	458.49
390.84	390.24	148 + 966.06	459.36	458.49	458.89
390.10	389.50	148 + 989.06	459.76	458.89	459.29
389.36	388.76	148 + 1012.06	460.16	459.29	459.69
388.62	388.02	148 + 1035.06	460.56	459.69	460.09
387.88	387.28	148 + 1058.06	460.96	460.09	460.49
387.14	386.54	148 + 1081.06	461.36	460.49	460.89
386.40	385.80	148 + 1104.06	461.76	460.89	461.29
385.66	385.06	148 + 1127.06	462.16	461.29	461.69
384.92	384.32	148 + 1150.06	462.56	461.69	462.09
384.18	383.58	148 + 1173.06	462.96	462.09	462.49
383.44	382.84	148 + 1196.06	463.36	462.49	462.89
382.70	382.10	148 + 1219.06	463.76	462.89	463.29
381.96	381.36	148 + 1242.06	464.16	463.29	463.69
381.22	380.62	148 + 1265.06	464.56	463.69	464.09
380.48	379.88	148 + 1288.06	464.96	464.09	464.49
379.74	379.14	148 + 1311.06	465.36	464.49	464.89
379.00	378.40	148 + 1334.06	465.76	464.89	465.29
378.26	377.66	148 + 1357.06	466.16	465.29	465.69
377.52	376.92	148 + 1380.06	466.56	465.69	466.09
376.78	376.18	148 + 1403.06	466.96	466.09	466.49
376.04	375.44	148 + 1426.06	467.36	466.49	466.89
375.30	374.70	148 + 1449.06	467.76	466.89	467.29
374.56	373.96	148 + 1472.06	468.16	467.29	467.69
373.82	373.22	148 + 1495.06	468.56	467.69	468.09
373.08	372.48	148 + 1518.06	468.96	468.09	468.49
372.34	371.74	148 + 1541.06	469.36	468.49	468.89
371.60	371.00	148 + 1564.06	469.76	468.89	469.29
370.86	370.26	148 + 1587.06	470.16	469.29	469.69
370.12	369.52	148 + 1610.06	470.56	469.69	470.09
369.38	368.78	148 + 1633.06	470.96	470.09	470.49
368.64	368.04	148 + 1656.06	471.36	470.49	470.89
367.90	367.30	148 + 1679.06	471.76	470.89	471.29
367.16	366.56	148 + 1702.06	472.16	471.29	471.69
366.42	365.82	148 + 1725.06	472.56	471.69	472.09
365.68	365.08	148 + 1748.06	472.96	472.09	472.49
364.94	364.34	148 + 1771.06	473.36	472.49	472.89
364.20	363.60	148 + 1794.06	473.76	472.89	473.29
363.46	362.86	148 + 1817.06	474.16	473.29	473.69
362.72	362.12	148 + 1840.06	474.56	473.69	474.09
361.98	361.38	148 + 1863.06	474.96	474.09	474.49
361.24	360.64	148 + 1886.06	475.36	474.49	474.89
360.50	359.90	148 + 1909.06	475.76	474.89	475.29
359.76	359.16	148 + 1932.06	476.16	475.29	475.69
359.02	358.42	148 + 1955.06	476.56	475.69	476.09
358.28	357.68	148 + 1978.06	476.96	476.09	476.49
357.54	356.94	148 + 2001.06	477.36	476.49	476.89
356.80	356.20	148 + 2024.06	477.76	476.89	477.29
356.06	355.46	148 + 2047.06	478.16	477.29	477.69
355.32	354.72	148 + 2070.06	478.56	477.69	478.09
354.58	353.98	148 + 2093.06	478.96	478.09	478.49
353.84	353.24	148 + 2116.06	479.36	478.49	478.89
353.10	352.50	148 + 2139.06	479.76	478.89	479.29
352.36	351.76	148 + 2162.06	480.16	479.29	479.69
351.62	351.02	148 + 2185.06	480.56	479.69	480.09
350.88	350.28	148 + 2208.06	480.96	480.09	480.49
350.14	349.54	148 + 2231.06	481.36	480.49	480.89
349.40	348.80	148 + 2254.06	481.76	480.89	481.29
348.66					



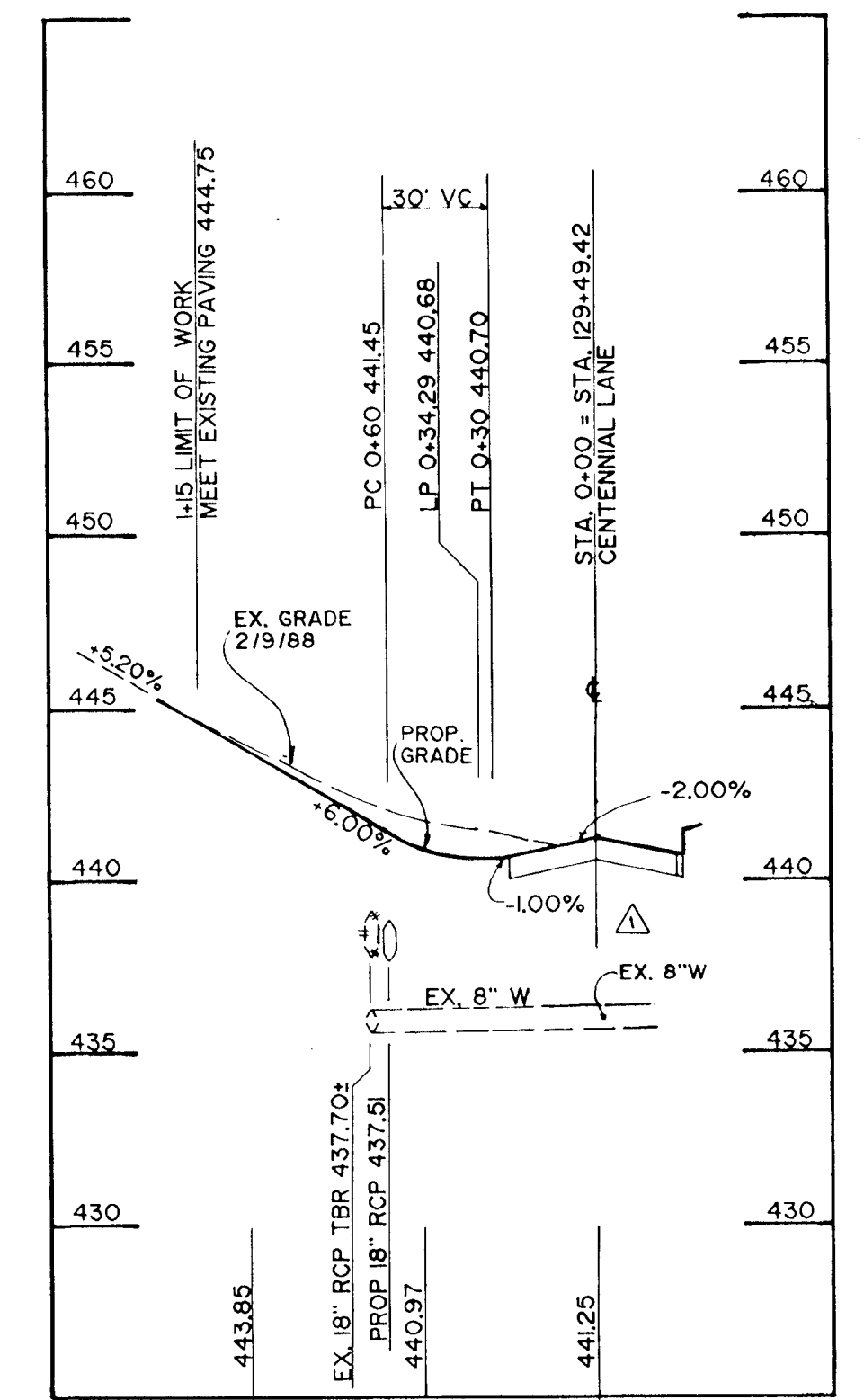
GLASTONBURY PLACE



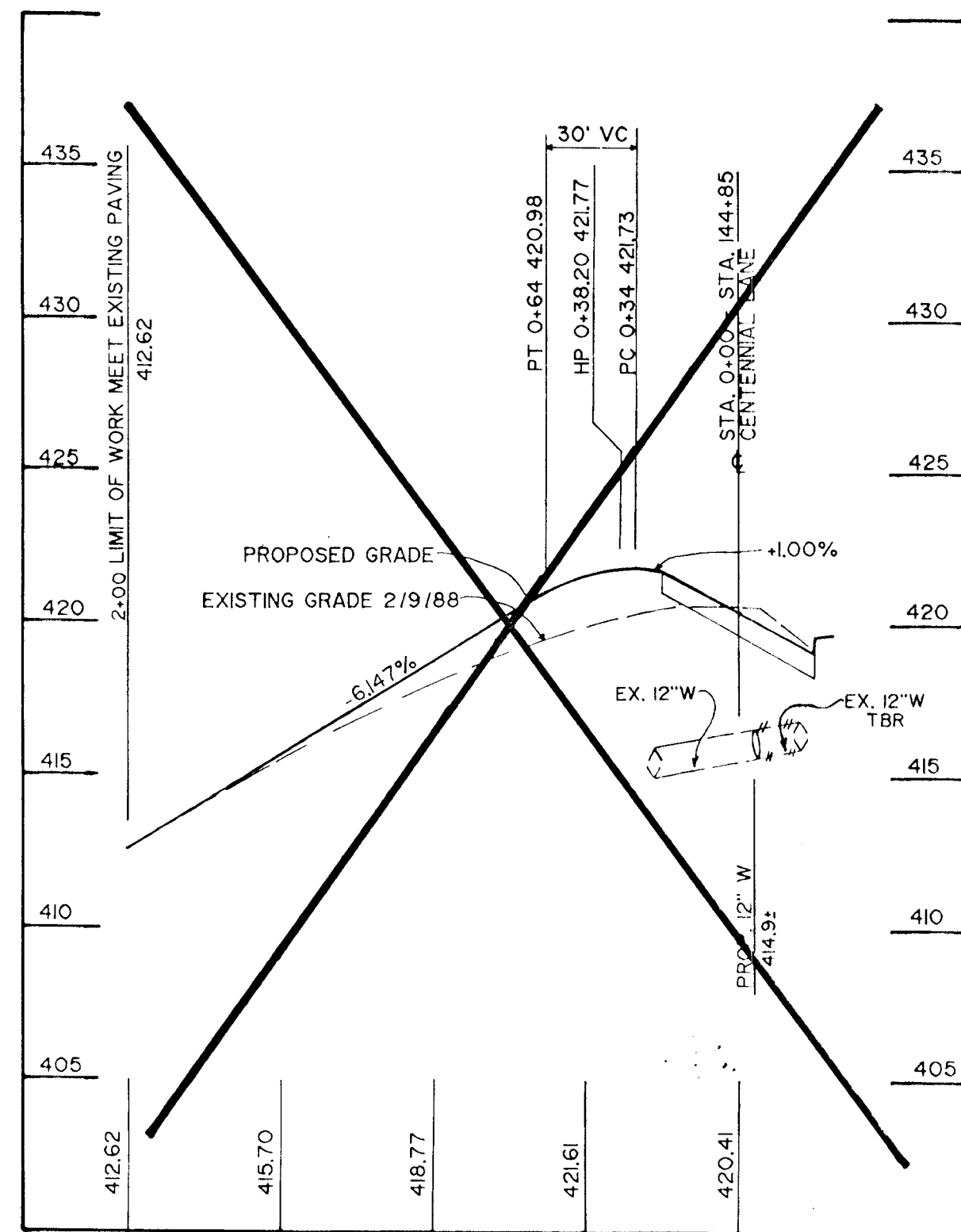
DUCKS FOOT LANE



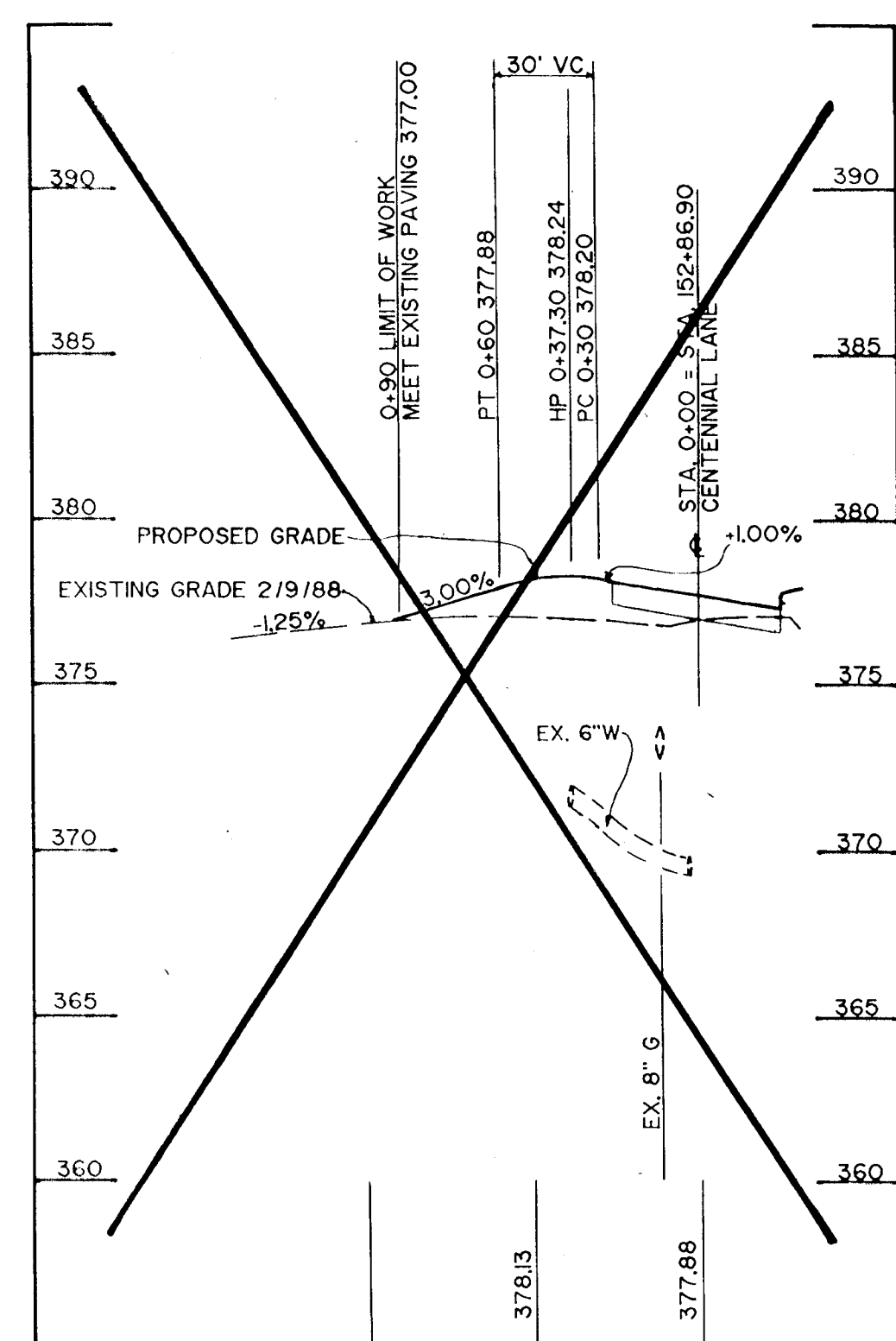
CULVERENE ROAD



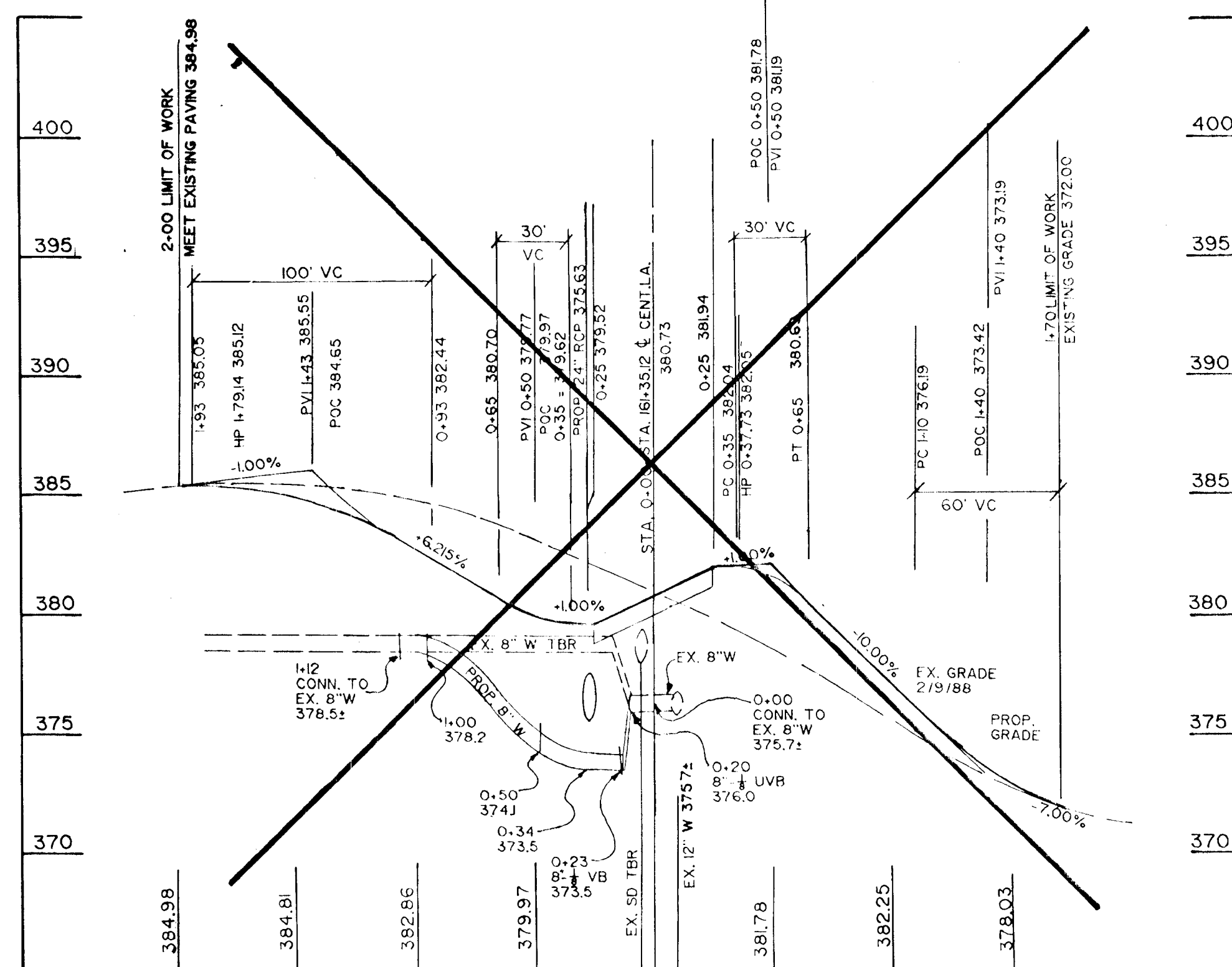
NORTH BRECONSHIRE ROAD



BURNSIDE DRIVE



CHAR-LIL COURT



TUSCANY ROAD AND CARRIGAN DRIVE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Lee 12/19/91
DIRECTOR OF PUBLIC WORKS DATE
William C. Wall 12/19/91
CHIEF, BUREAU OF ENGINEERING DATE
Arnold L. Wall 12/19/91
CHIEF, BUREAU OF HIGHWAYS DATE

MILDENBERG,
MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS
3300 North Ridge Road, Suite 205, Ellicott City, Maryland 21043-3350
(301) 461-0078 C.C. Memo: (301) 621-5768



DES: JBM/KAM	KAM	1	Estimate Watermain Proportion	3/21/92
DRN: STAFF				
CHK: JBM				
DATE: 10/91	BY: NO		REVISION	DATE

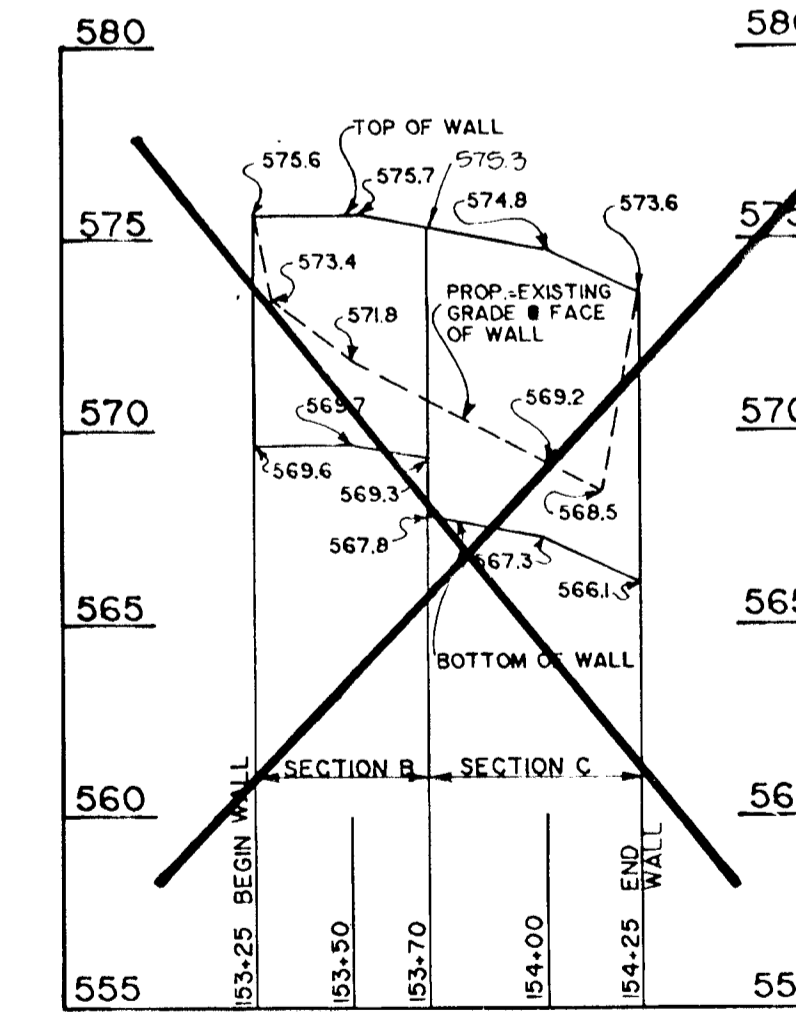
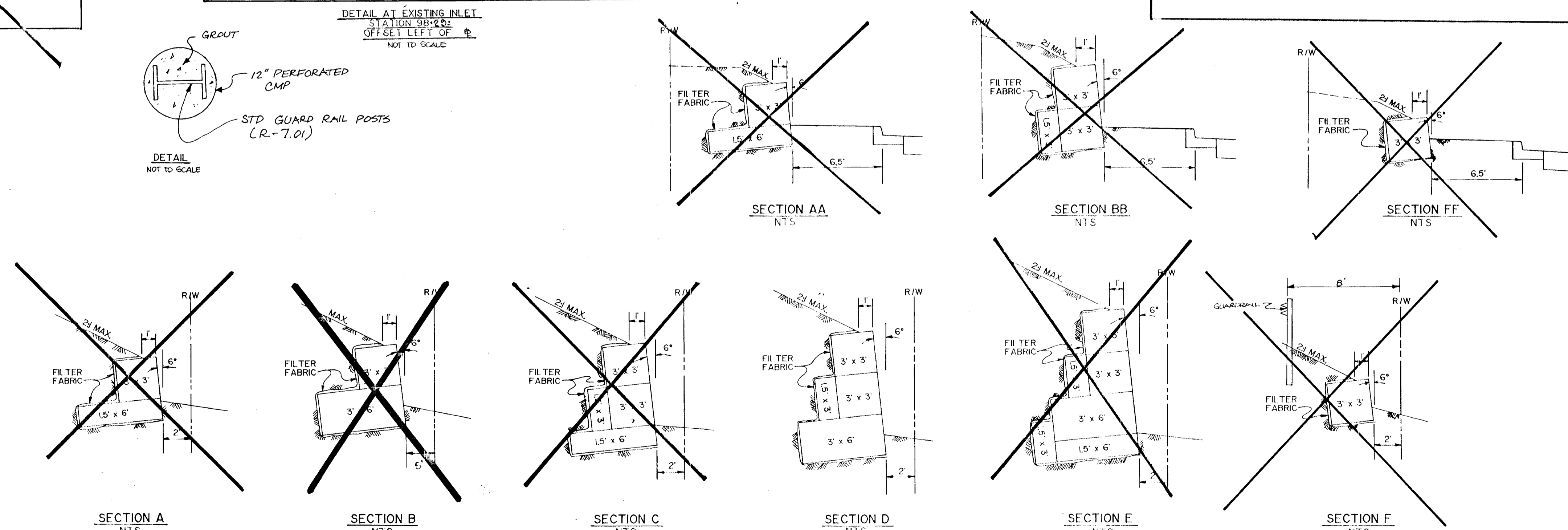
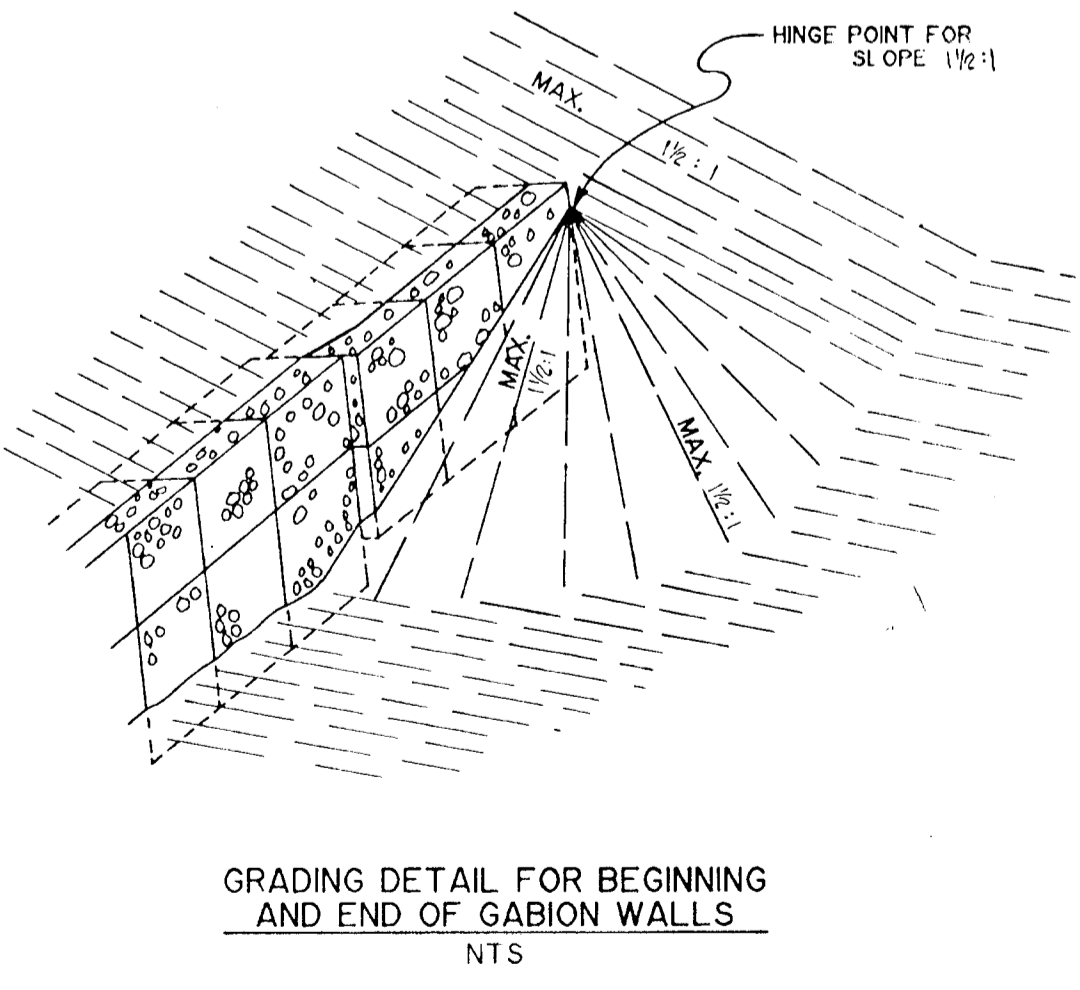
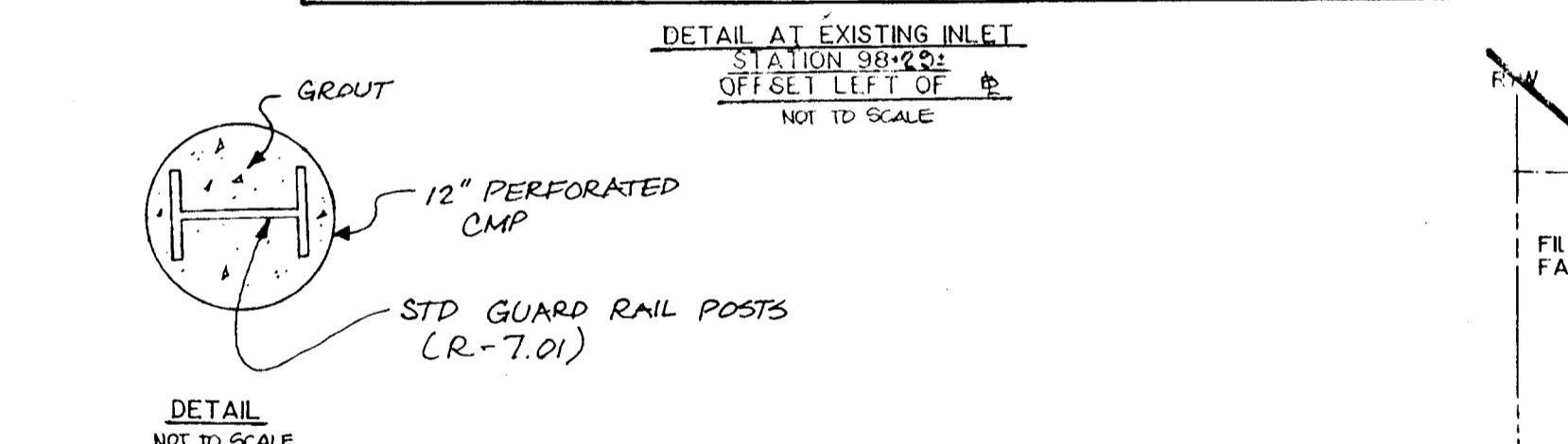
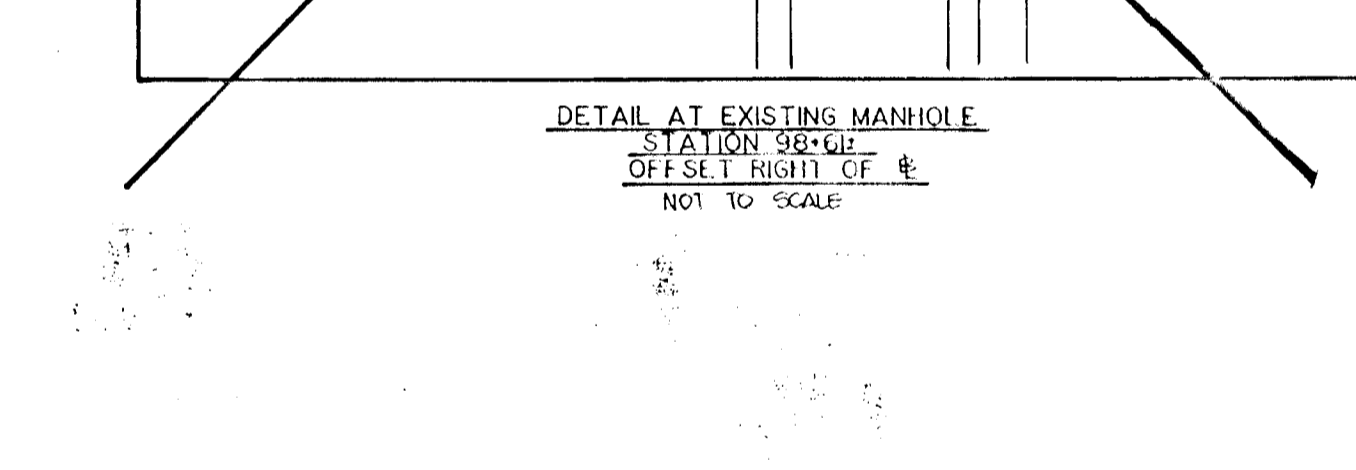
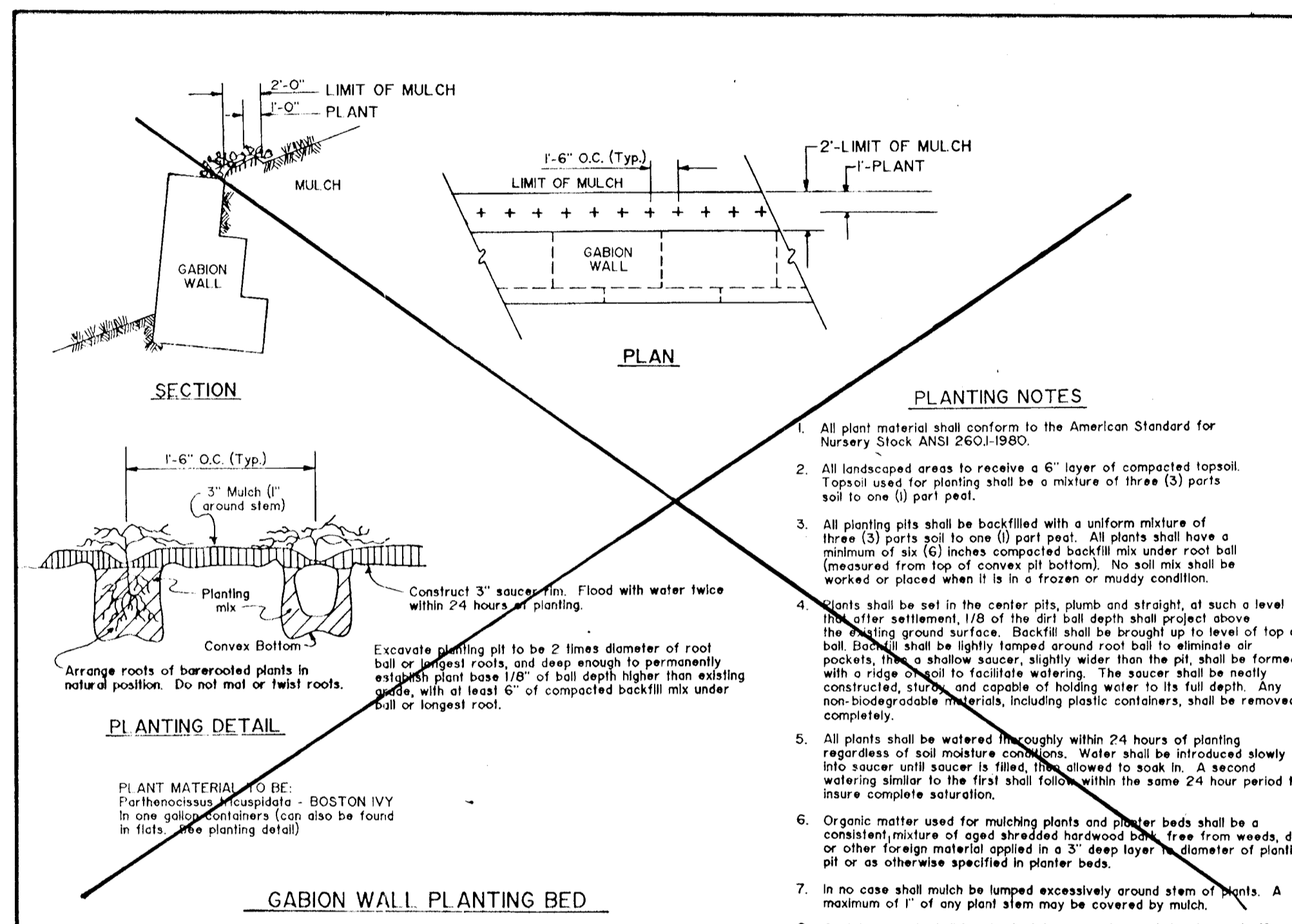
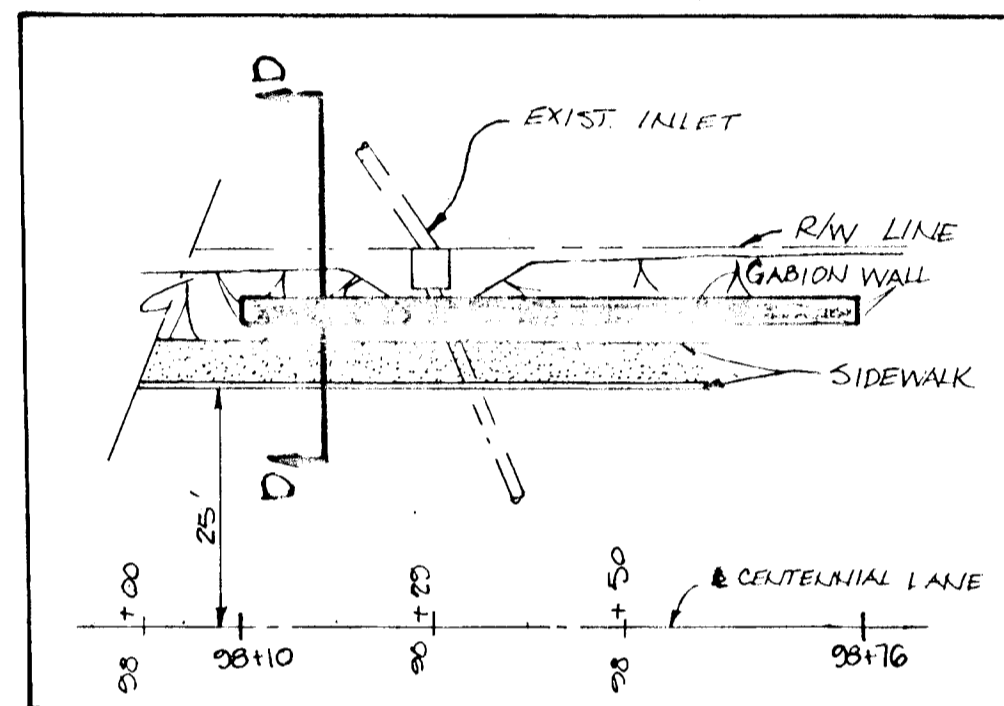
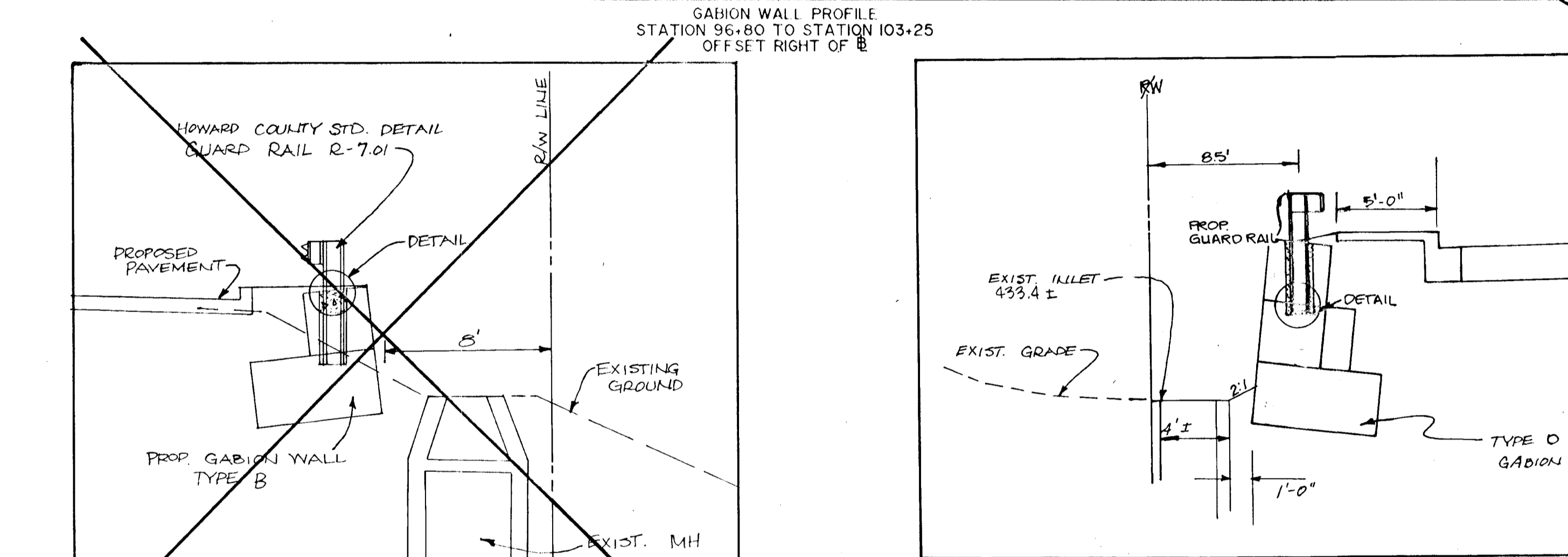
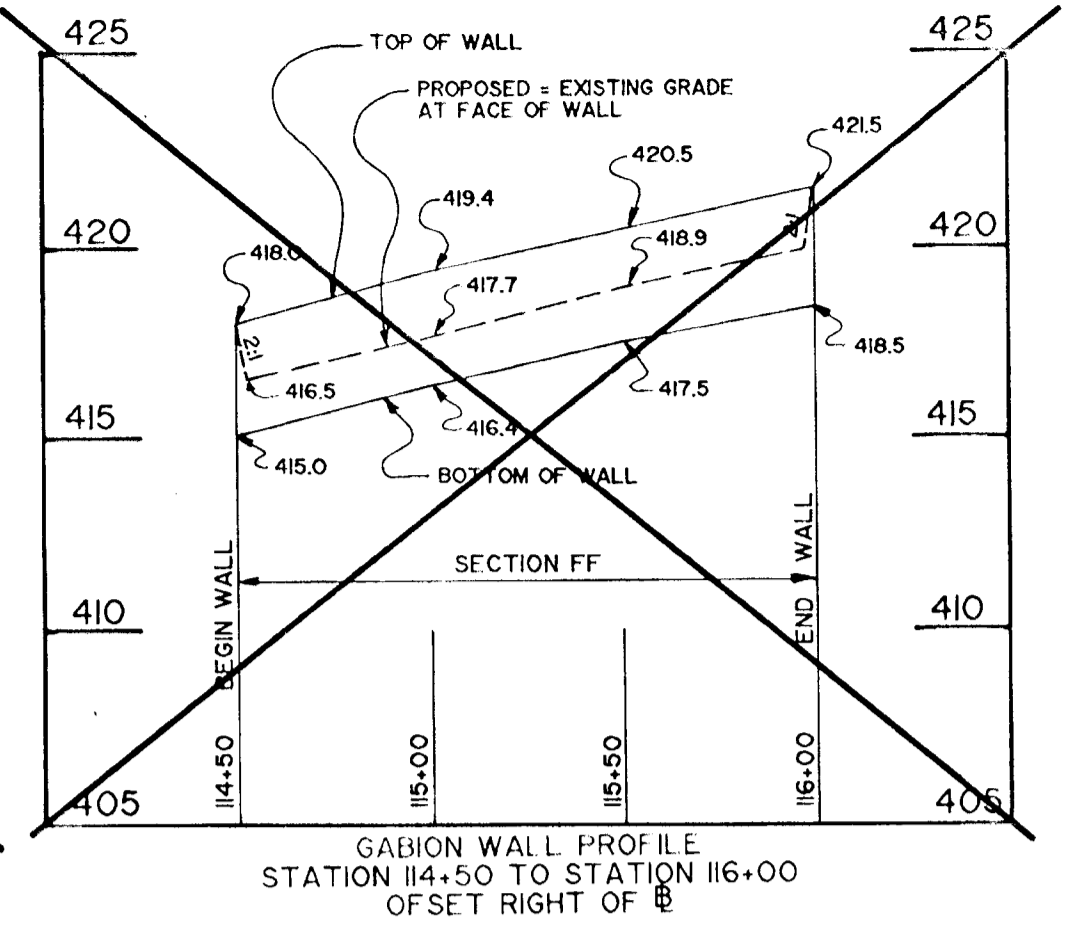
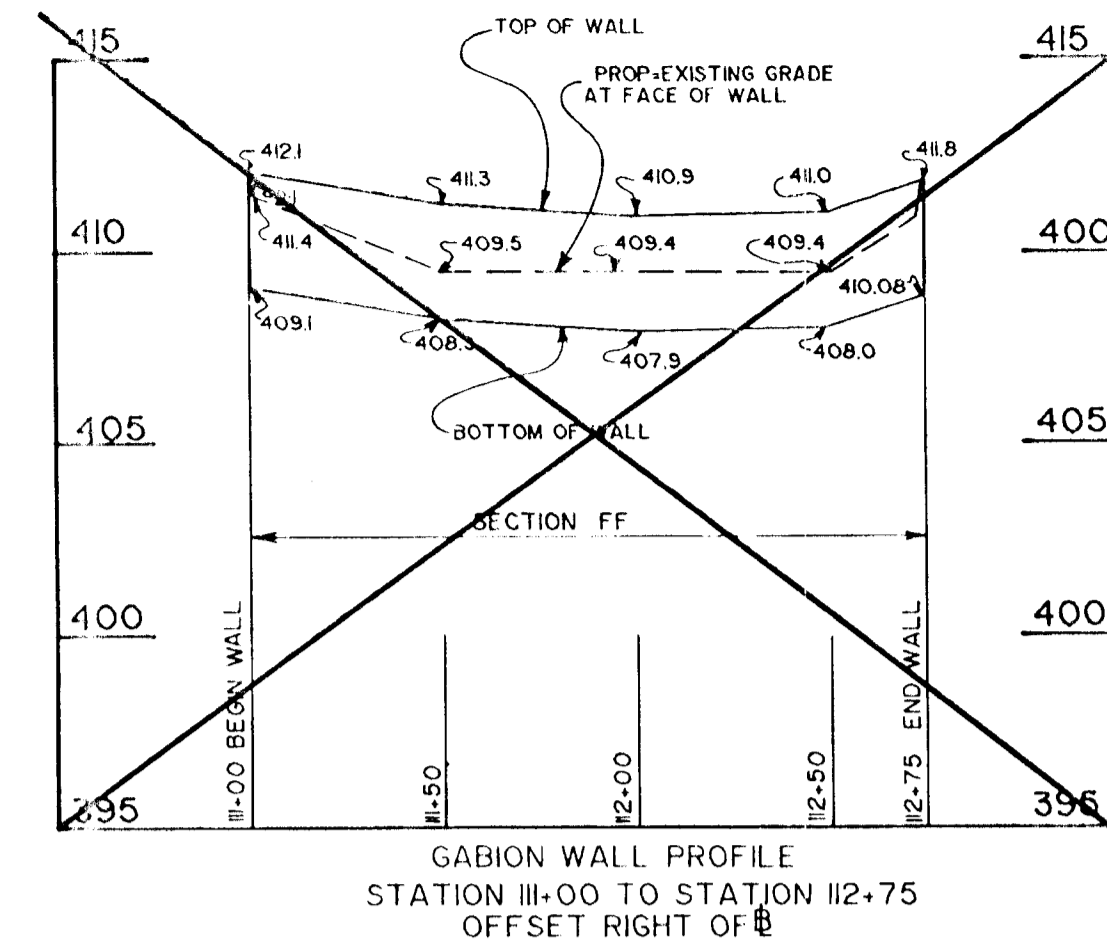
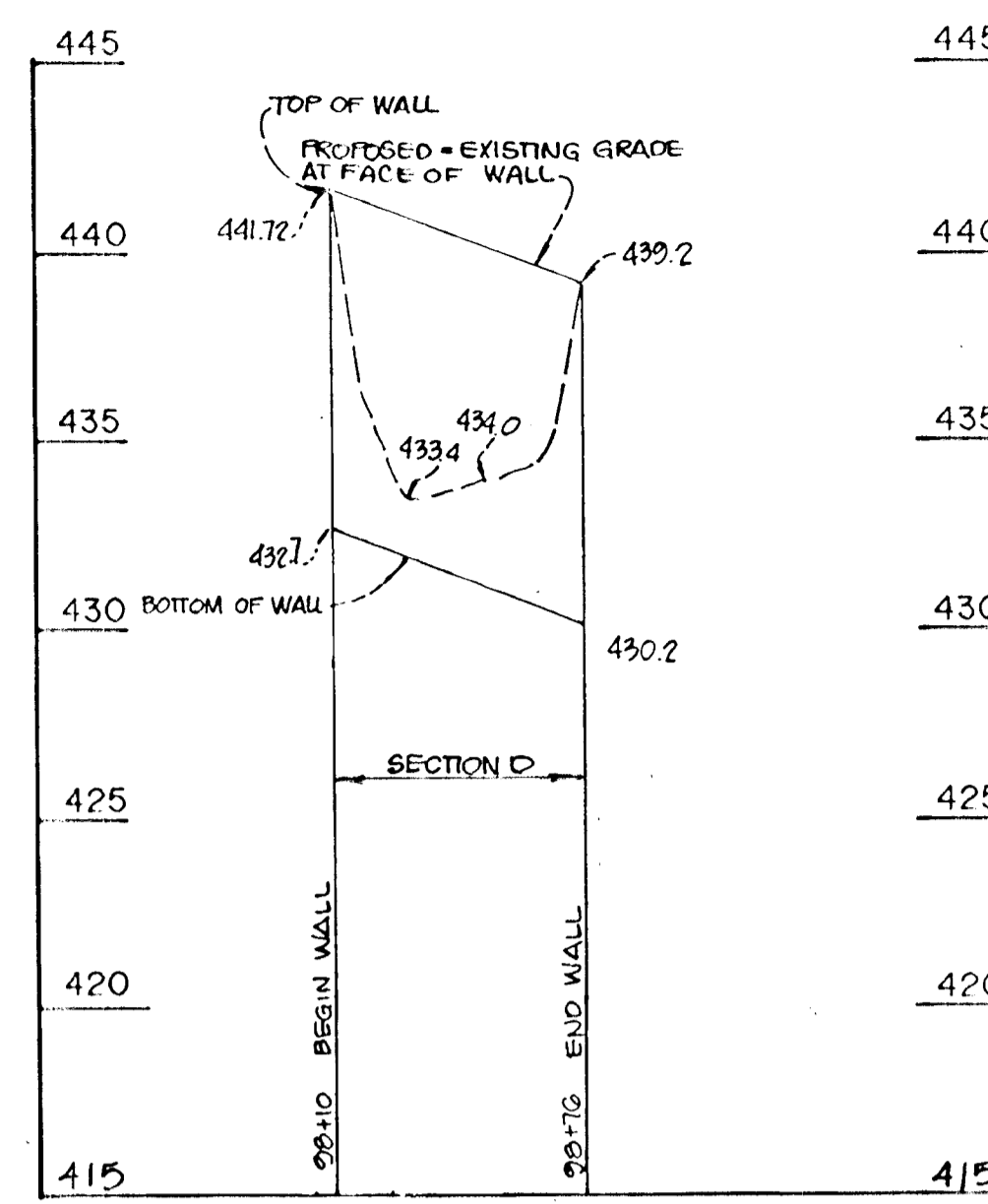
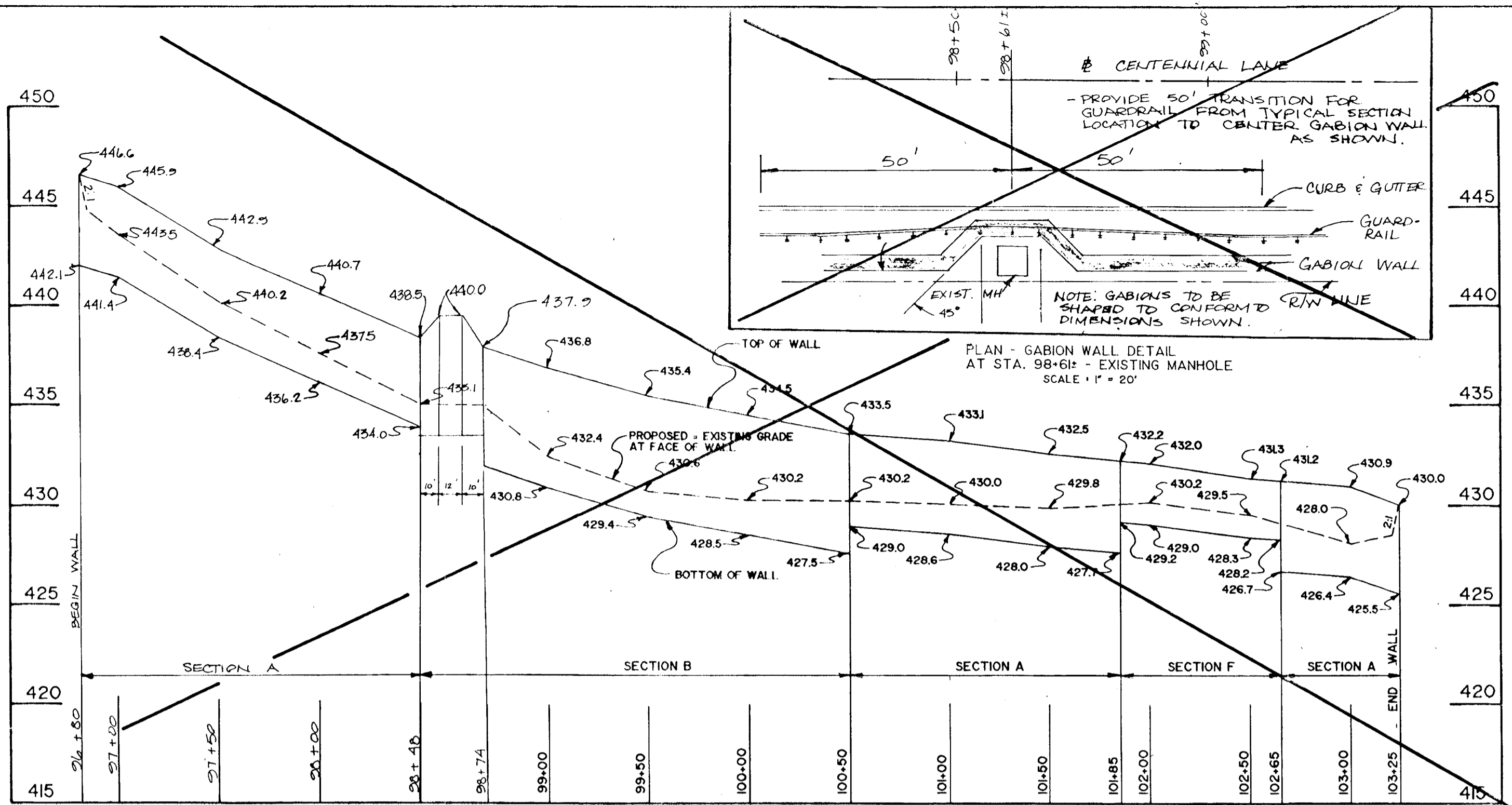
CENTENNIAL LANE
INTERSECTING STREETS
PROFILES

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

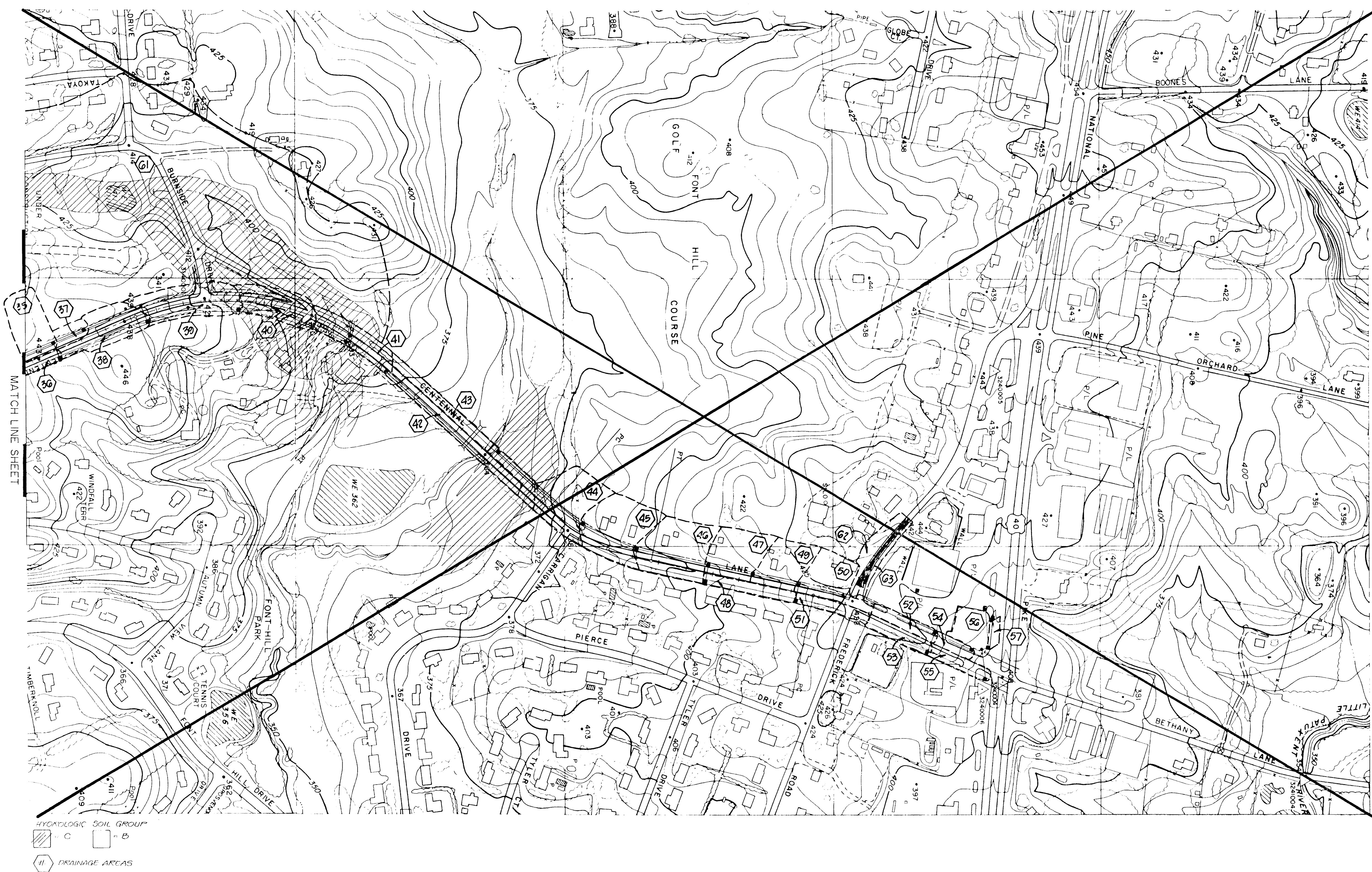
PROFILE
SCALE:
5" = 8' 50"

SHEET
10 OF 27

1196



SCALE: 1" = 200'
TRUE NORTH



AREA TABULATION FOR DRAINAGE AREA MAP

DA	TOTAL ACRES	AREA IN ACRES HYDROLOGICAL SOIL GROUP		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	---	0.88	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	15%	
13	0.61	0.61	---	0.46	30%	
14	0.25	0.25	---	0.68	50%	
15	0.47	0.47	---	0.68	60%	
16	0.78	0.35	0.43	0.54	60%	
17	0.82	0.42	0.40	0.54	50%	
18	0.70	0.70	---	0.46	40%	
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	22%	
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	60%	
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	46%	
38	0.77	0.77	---	0.57	48%	
39	1.03	0.76	0.25	0.57	48%	
40	0.88	---	0.88	0.57	48%	
41	0.44	---	0.44	0.57	48%	
42	0.69	0.48	0.20	0.71	60%	
43	0.84	0.29	0.55	0.5	75%	
44	1.24	1.10	0.14	0.44	26%	
45	1.32	1.32	---	0.44	26%	
46	1.52	1.52	---	0.44	26%	
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	---	0.82	96%	
53	0.25	0.25	---	0.7	89%	
54	0.19	0.19	---	0.82	96%	
55	0.21	0.21	---	0.77	89%	
56	0.17	0.17	---	0.16	0%	
57	0.13	0.13	---	0.86	99%	
58	29.42	14.71	14.71	0.45	---	
59	29.93	29.93	---	0.45	---	
60	11.42	1.10	1.10	0.42	---	
61	31.73	6.35	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

Janean J. Lee 12/1/91
CHIEF BUREAU OF ENGINEERING

William W. Wallace 12/1/91
CHIEF BUREAU OF HIGHWAYS

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

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



DES: KAM					
DRN: LJC					
CHK: JBM					
DATE: 10/91	BY	NO.	REVISION	DATE	600 SCALE MAP NO. 121 BLOCK NO.

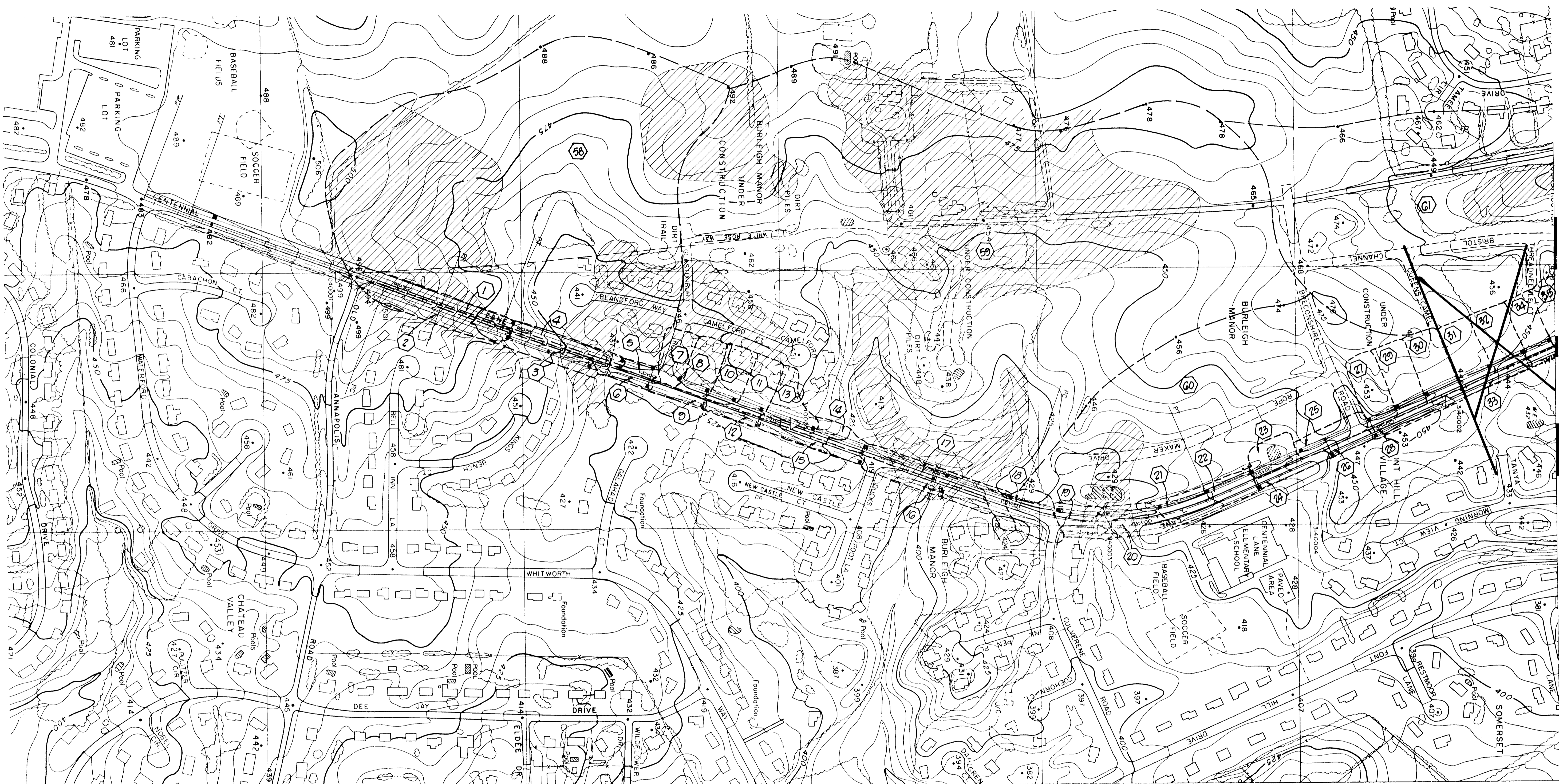
DRAINAGE AREA MAP
STA. 137+50 TO END
CENTENNIAL LANE

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

1196

SCALE: 1" = 200'
TRUE NORTH



MATCH LINE SHEET

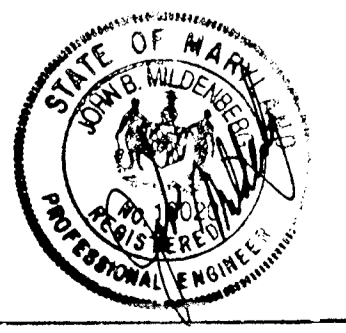
HYDROLOGIC SOIL GROUP
 - C = B
 # DRAINAGE AREAS

9611

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. Lee 12/4/91
 Chief, Bureau of Engineering
 Elizabeth Anderson-Palix 12/4/91
 Chief, Bureau of Highway
 Kevin E. Reidy 12/3/91
 DATE
 Granville W. McLeod 12/4/91
 Chief, Bureau of Highway
 DATE

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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

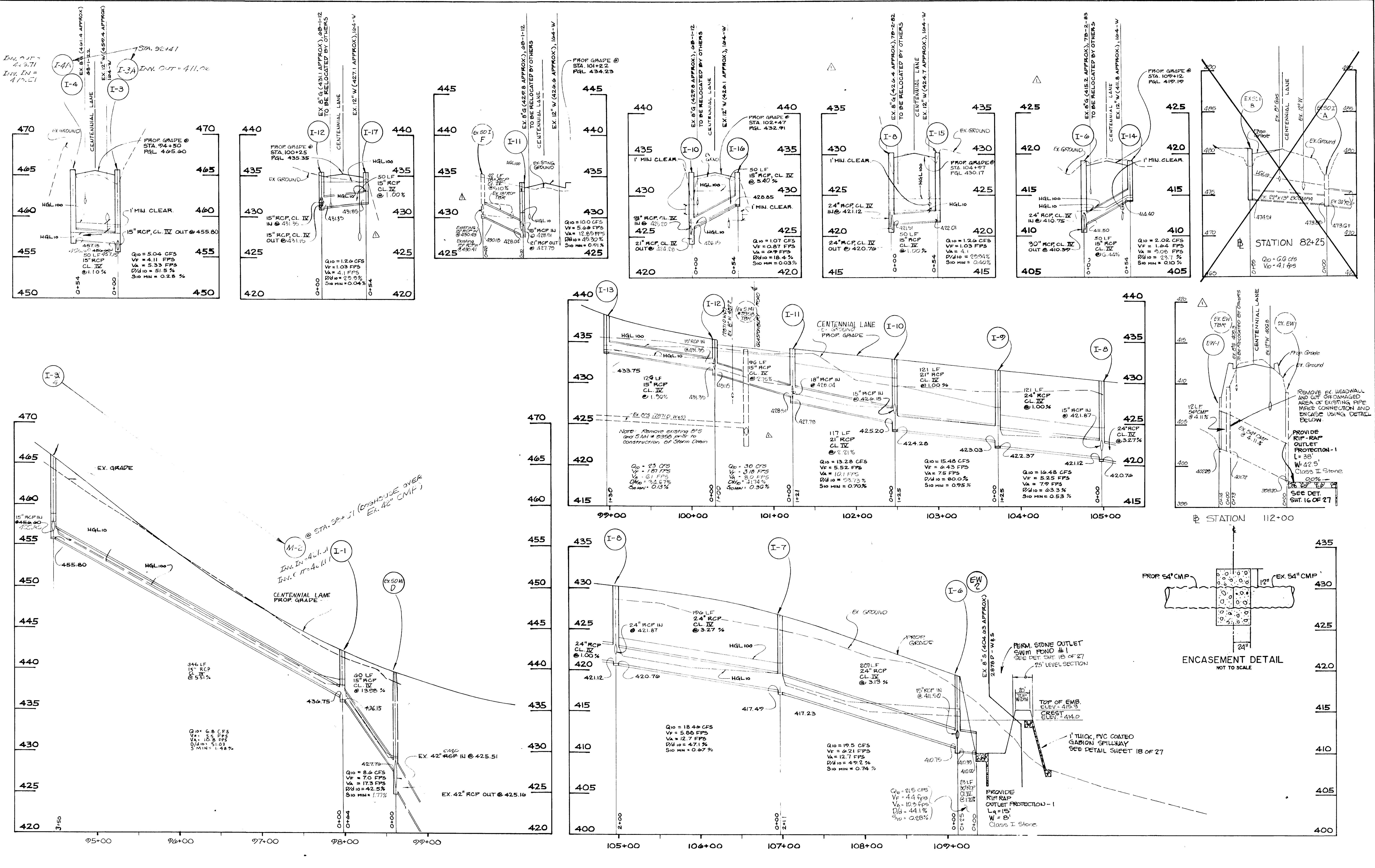


DES: JAM					
DRN: L.T.					
CHK: JEM					
DATE: 10/31	BY: NC	REVISION:	DATE:	600 SCALE MAP NO. 124	BLOCK NO.

DRAINAGE AREA MAP
 STA. 88+00 TO STA. 137+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 13 OF 27



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

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



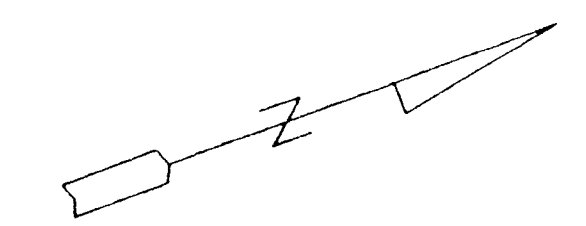
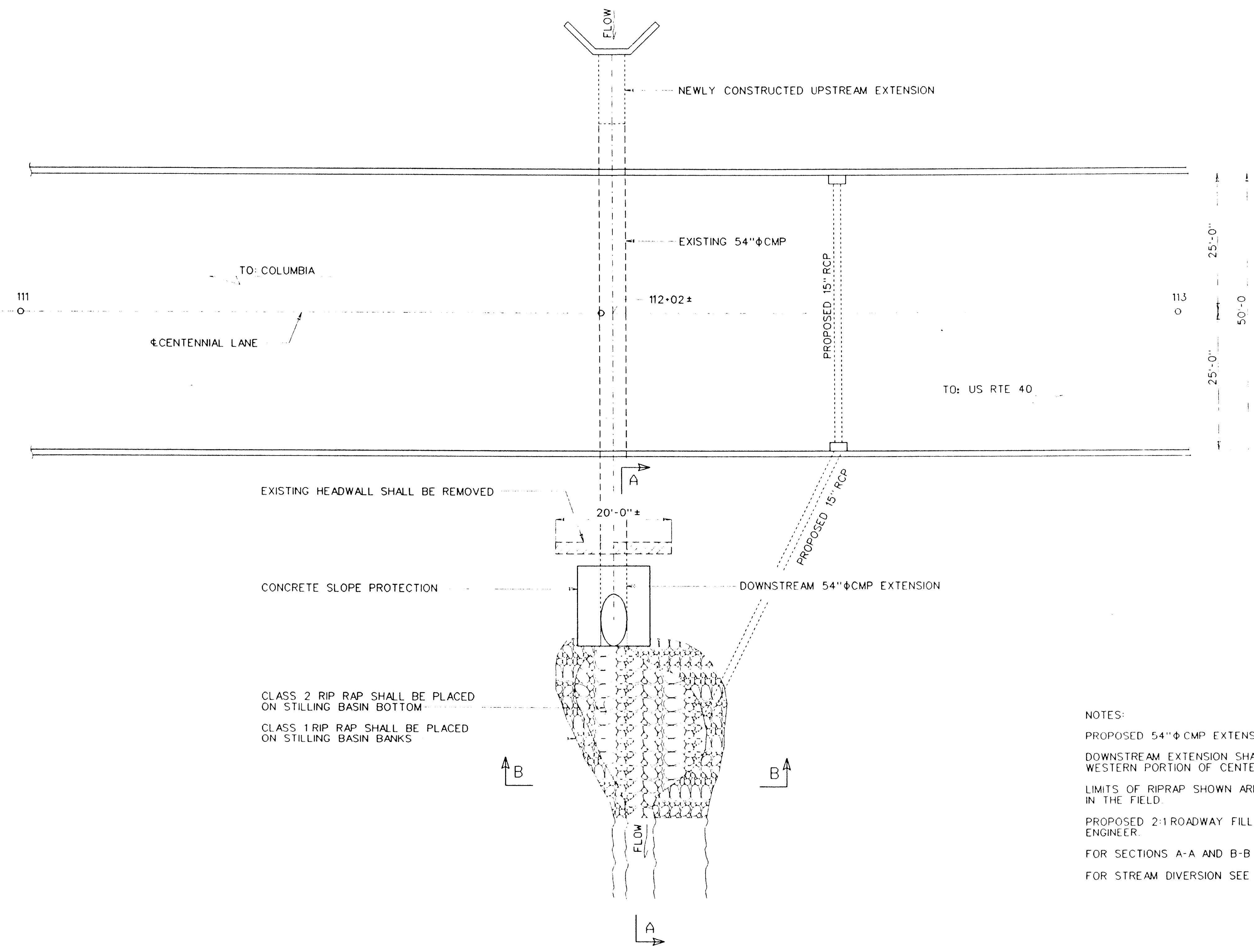
DES: KAM	KAM	Eliminate Watermain Relocation	JAN 92
DRN: JMS			
CHK: JDM			
DATE: 10/21	BY: NO	REVISION	DATE

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

1196



NOTES:

PROPOSED 54" ϕ CMP EXTENSION SHALL BE 14' GO.

DOWNSTREAM EXTENSION SHALL BE CONSTRUCTED WHEN TRAFFIC HAS BEEN SHIFTED TO THE WESTERN PORTION OF CENTENNIAL LANE.

LIMITS OF RIPRAP SHOWN ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PROPOSED 2:1 ROADWAY FILL SLOPE SHALL TIE INTO EXISTING SLOPES AS DIRECTED BY THE ENGINEER.

FOR SECTIONS A-A AND B-B SEE SHEET 14B.

FOR STREAM DIVERSION SEE SHEET 14C.

PLAN VIEW
SCALE: 1" = 10'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

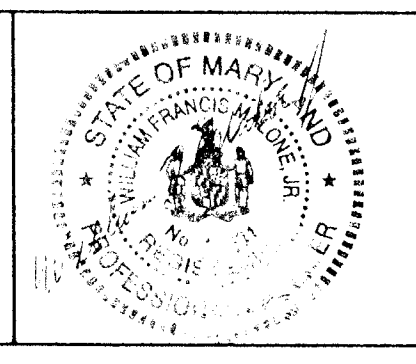
Casey J. ... 2/13/93
DIRECTOR OF PUBLIC WORKS DATE

Paul W. ... 8/11/93
CHIEF, BUREAU OF ENGINEERING DATE

Elizabeth Anderson-Celia 8/11/93
CHIEF, TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DIVISION DATE

Andrew M. ... 8-12-93
CHIEF, BUREAU OF HIGHWAYS DATE

PREPARED BY:
TRANSPORTATION PROJECTS AND
WATERSHED MANAGEMENT DIVISION
D.P.W. / BUREAU OF ENGINEERING
HOWARD COUNTY, MARYLAND.



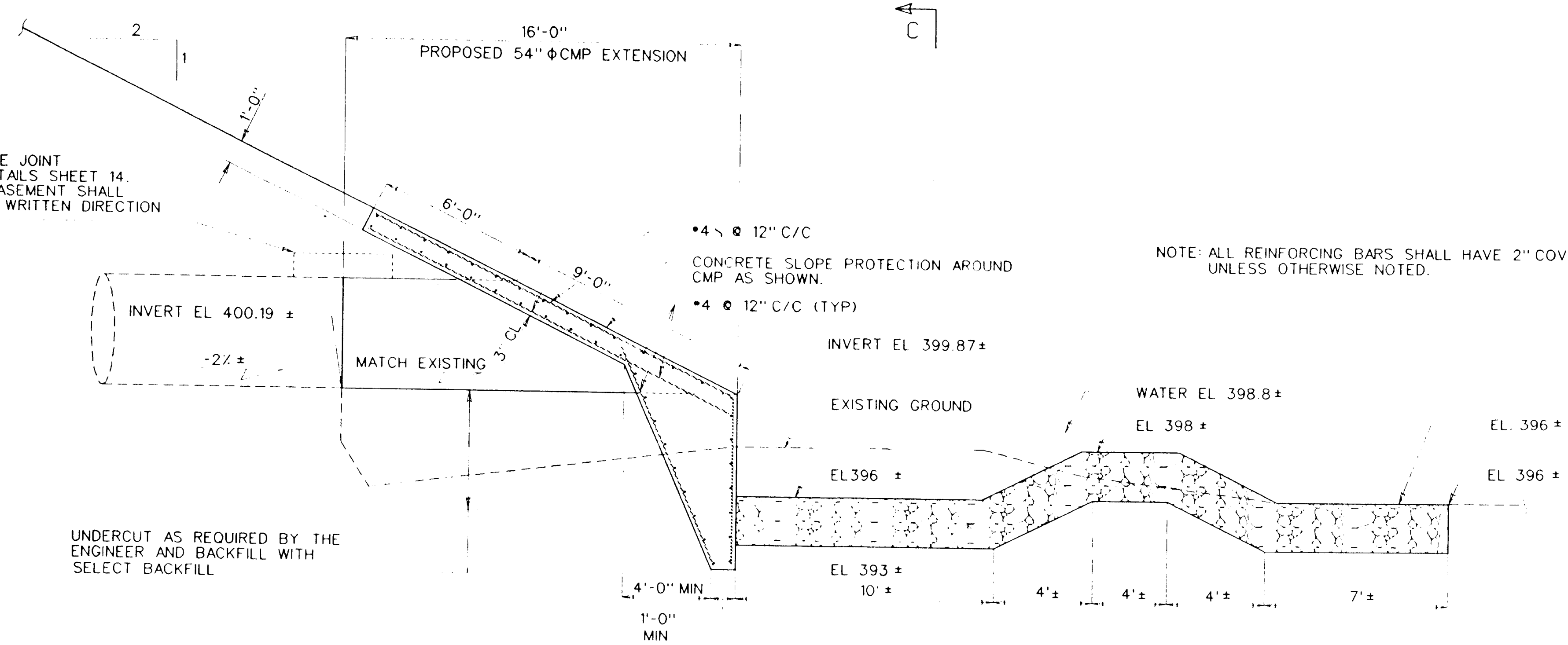
DESIGNED BY: WFM	WFM 2	NEW SHEET ADDED	7/93
DRAWN BY: WFM			
CHECKED BY: TW			
DATE: 7/28/93			

54" DIA CMP AT STA 112+
DOWNSTREAM EXTENSION
GENERAL PLAN

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA 136+00
CAPITAL PROJECT J-4015-111
ELECTION DISTRICT NO 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 14A OF 27

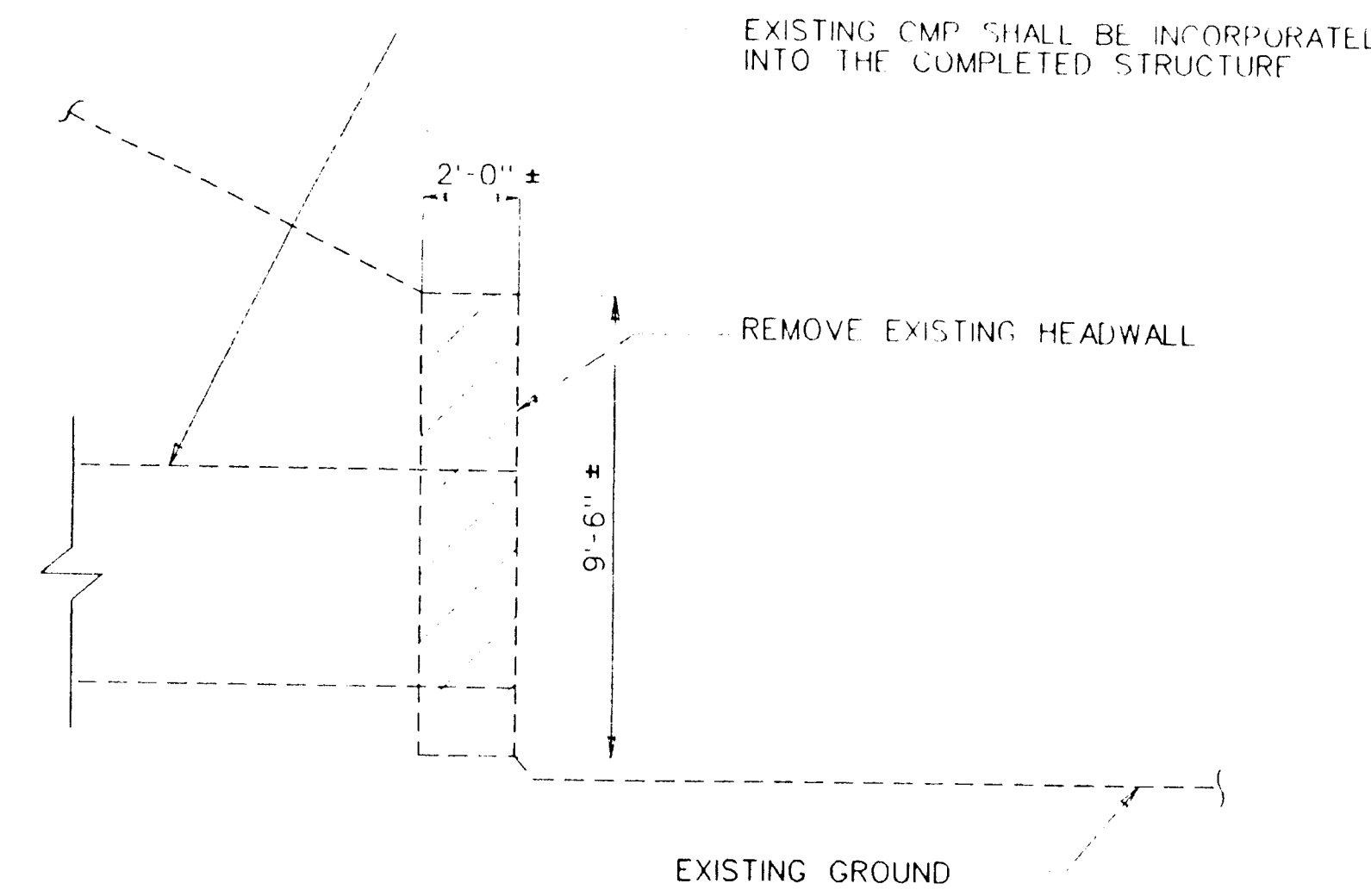
CONTINGENT CONCRETE JOINT
ENCASEMENT. SEE DETAILS SHEET 14.
CONCRETE JOINT ENCASEMENT SHALL
BE USED ONLY UPON WRITTEN DIRECTION
OF THE ENGINEER.



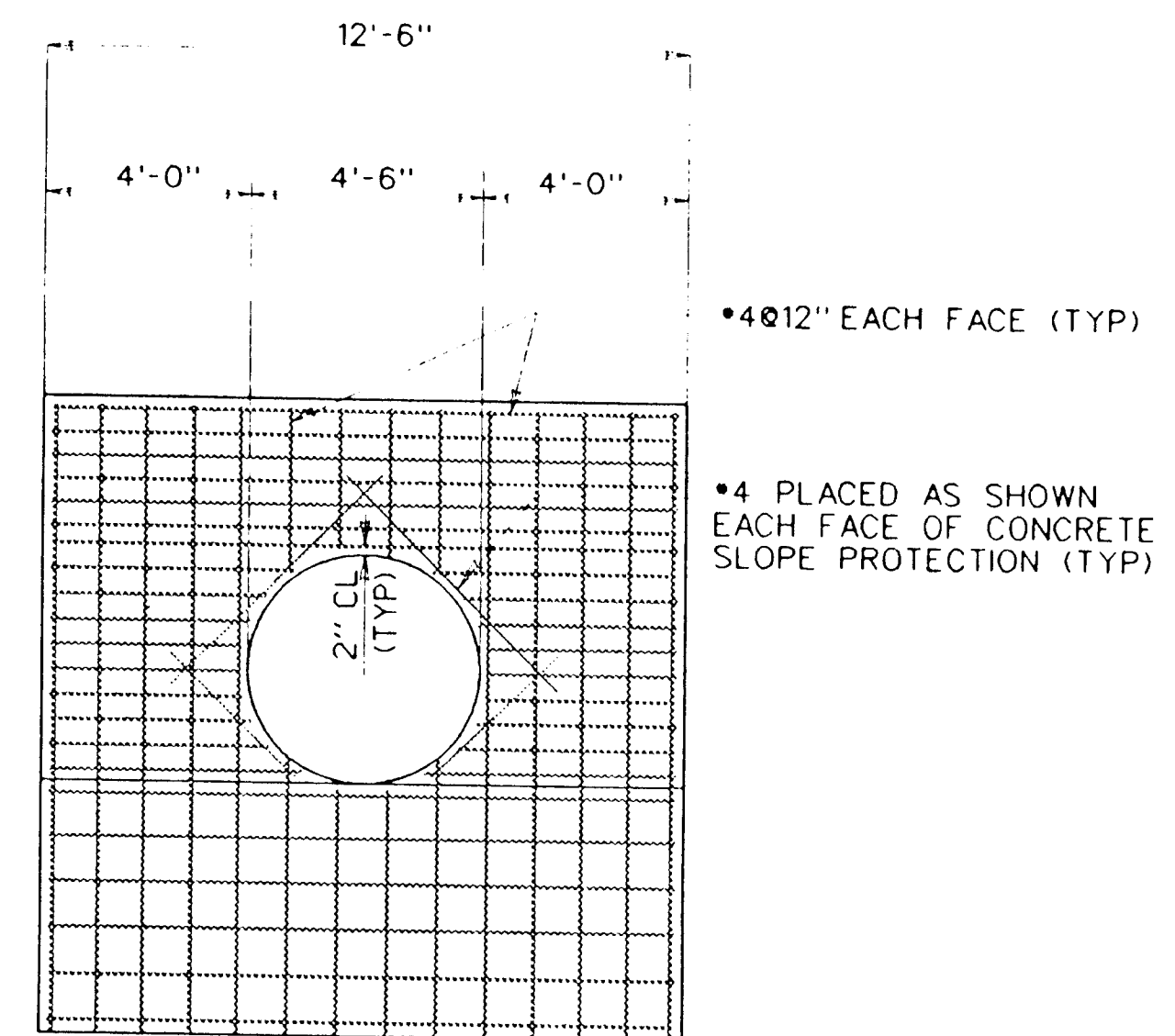
NOTE: ALL REINFORCING BARS SHALL HAVE 2" COVER
UNLESS OTHERWISE NOTED.

UNDERCUT AS REQUIRED BY THE
ENGINEER AND BACKFILL WITH
SELECT BACKFILL

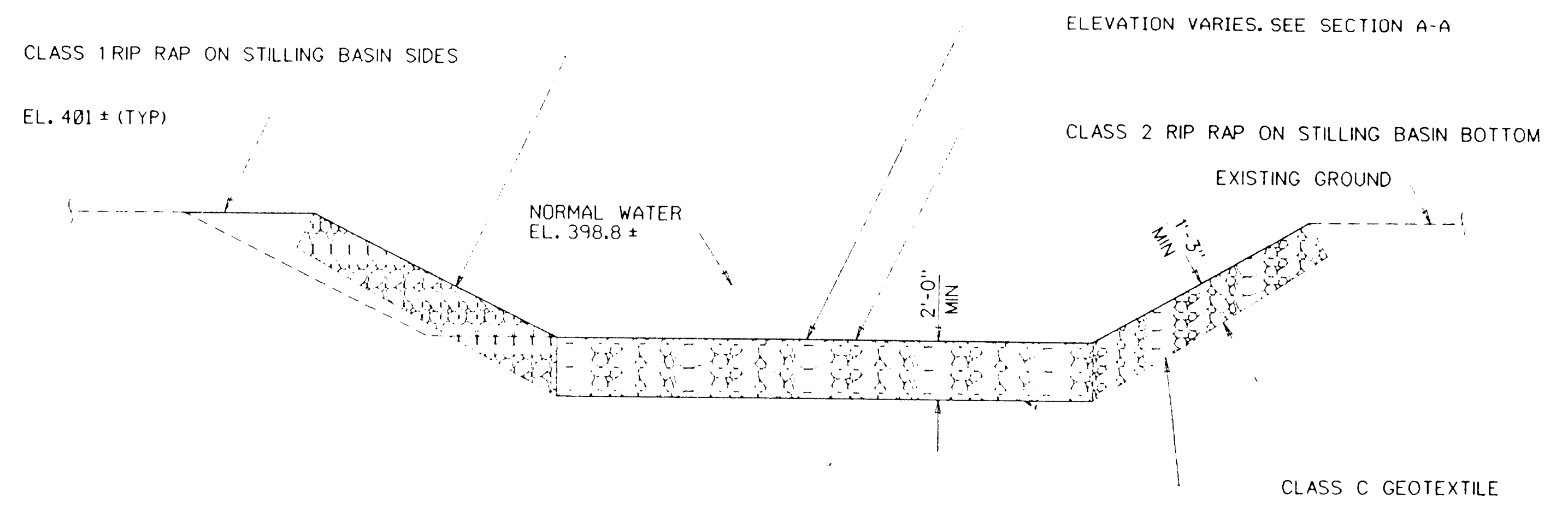
SECTION A-A
SCALE: NTS



REMOVAL
SCALE: NTS



SECTION C-C
SCALE: NTS

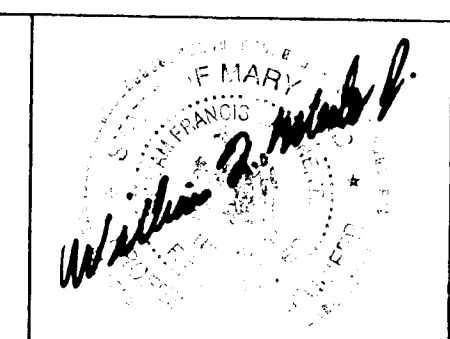


SECTION B-B
SCALE: NTS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Elizabeth Anderson-Cole 8/11/93
DIRECTOR OF PUBLIC WORKS
Andrew M. Douker 8-12-93
CHIEF, BUREAU OF HIGHWAYS

PREPARED BY:
TRANSPORTATION PROJECTS AND
WATERSHED MANAGEMENT DIVISION
D.P.W. / BUREAU OF ENGINEERING
HOWARD COUNTY, MARYLAND.

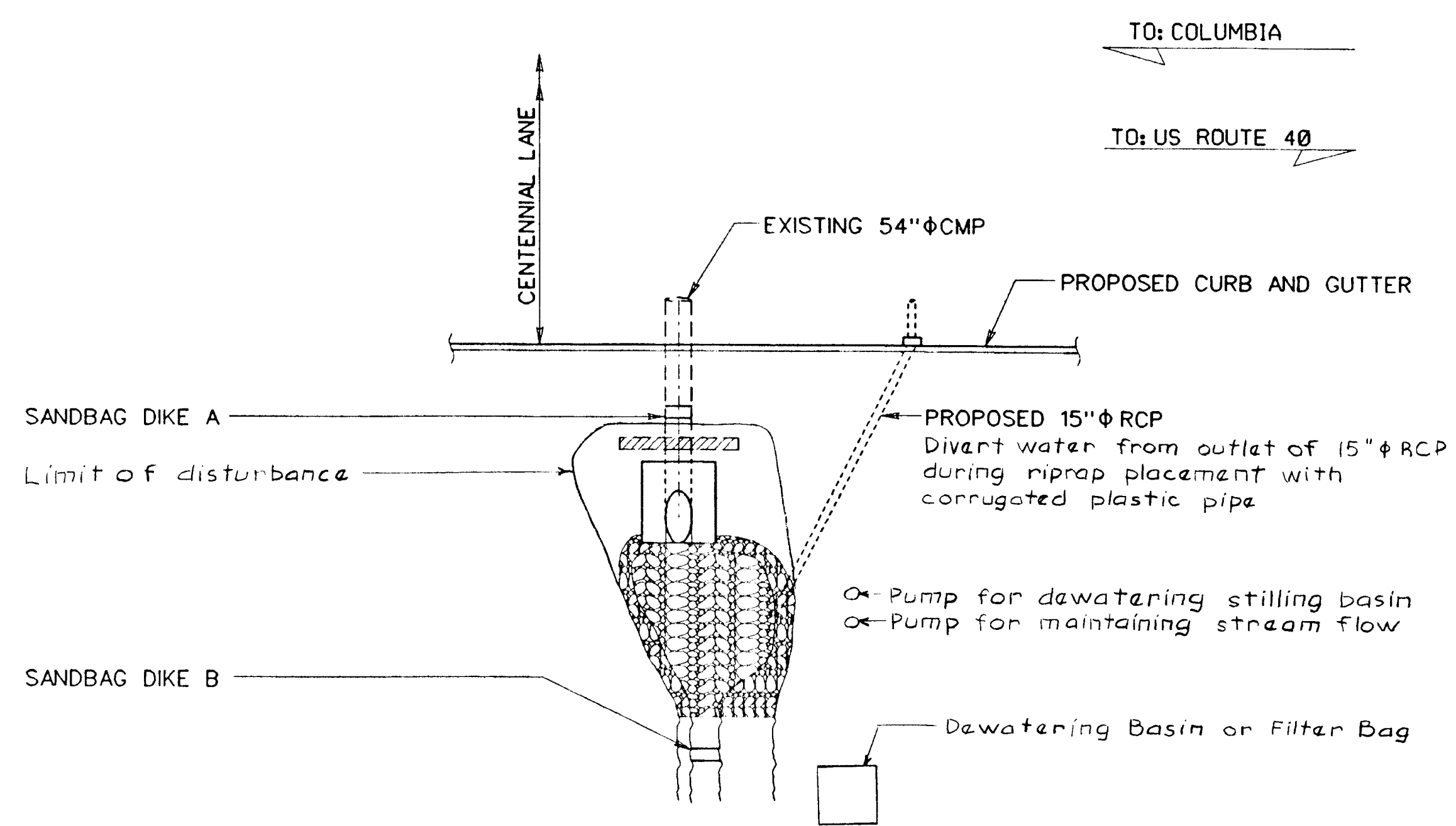
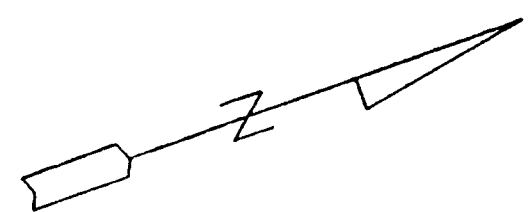


DES: WFM	WFM	2	NEW SHEET ADDED	7/93
DRN: WFM				
CHK: TW				
DATE: 7/28/93				

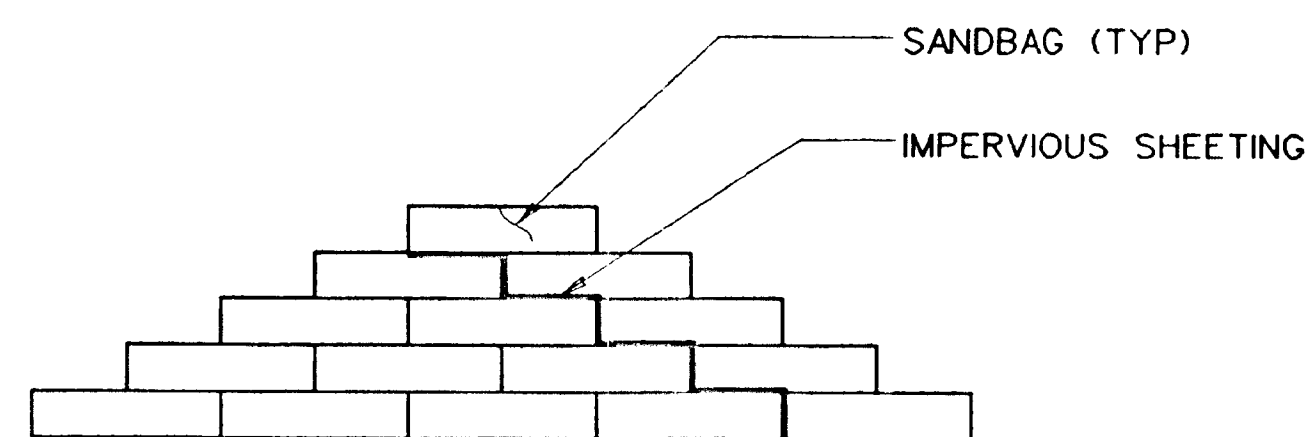
54" DIA CMP AT STA 112+
DOWNSTREAM EXTENSION
SECTIONS

CENTENNIAL LANE
OLD ANNAPOLIS ROAD TO STA 136+00
CAPITAL PROJECT J-4015-1111
ELECTION DISTRICT NO 2
HOWARD COUNTY, MARYLAND

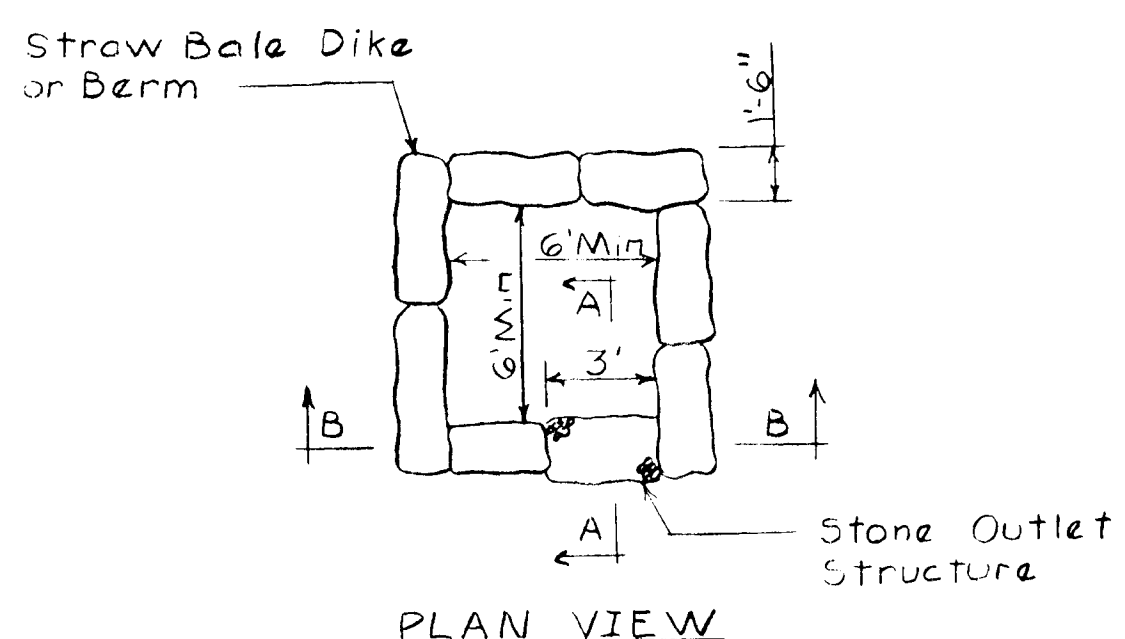
SCALE
AS
SHOWN
SHEET
14B OF 27



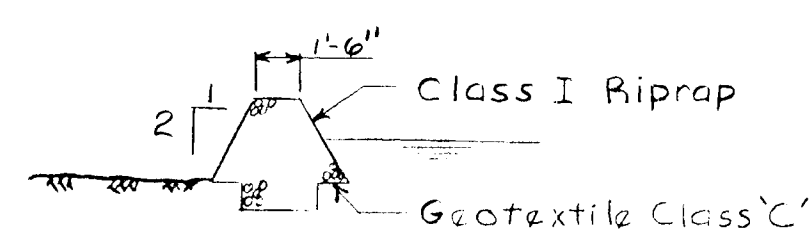
PLAN VIEW
SCALE: 1" = 10'



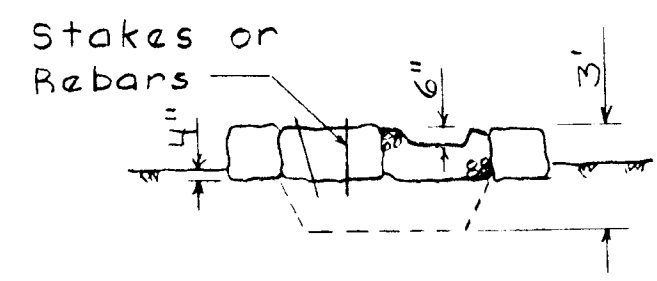
TYPICAL SANDBAG DIKE
SCALE: N1S



PLAN VIEW



SECTION A-A



SECTION B-B

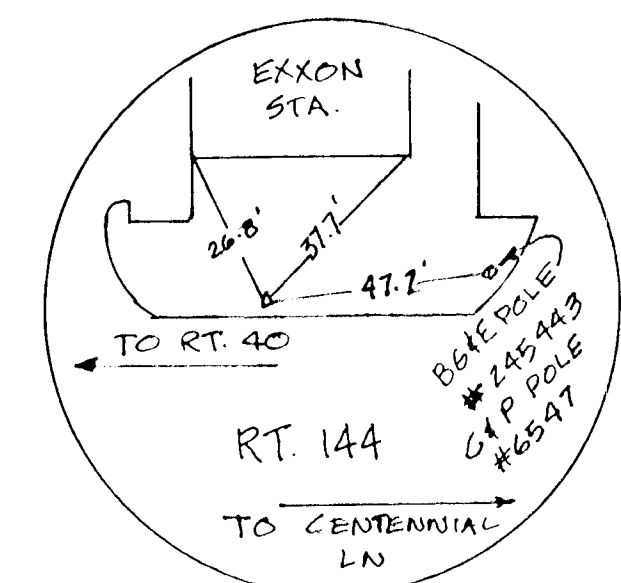
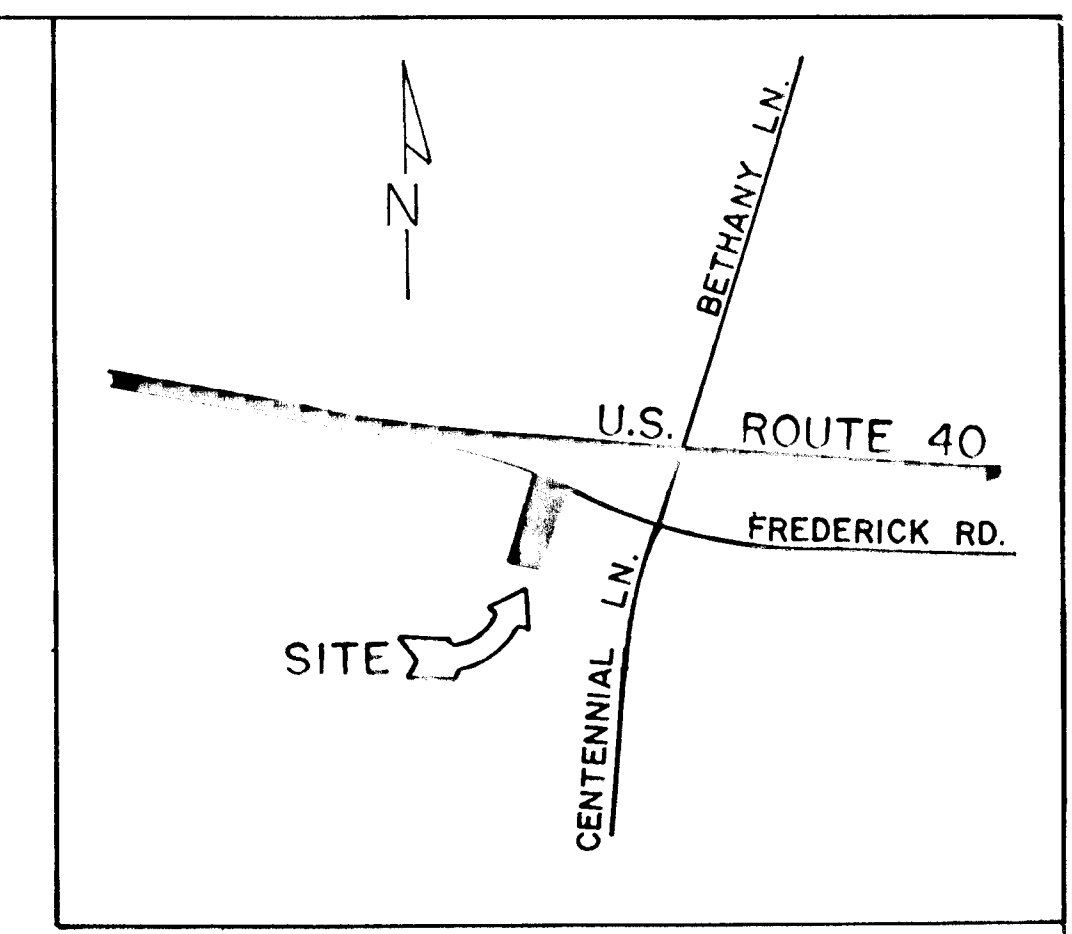
DEWATERING BASIN DETAILS
Scale: None

SEQUENCE OF STREAM DIVERSION:	DURATION
CONSTRUCT SANDBAG DIKE A.	1 Day
* PUMP WATER FROM UPSTREAM OF SANDBAG DIKE A TO DOWNSTREAM OF PROPOSED SANDBAG DIKE B.	NA
CONSTRUCT SANDBAG DIKE B.	1 Day
** PUMP WATER FROM STILLING BASIN TO DOWNSTREAM OF SANDBAG DIKE B. Dewatering Basin	NA
CONSTRUCT CMP EXTENSION AND RCP.	15 Days
CONSTRUCT RIP RAP STILLING BASIN.	6 Days
REMOVE SANDBAG DIKE B.	1 Day
REMOVE SANDBAG DIKE A AND CEASE PUMPING.	1 Day

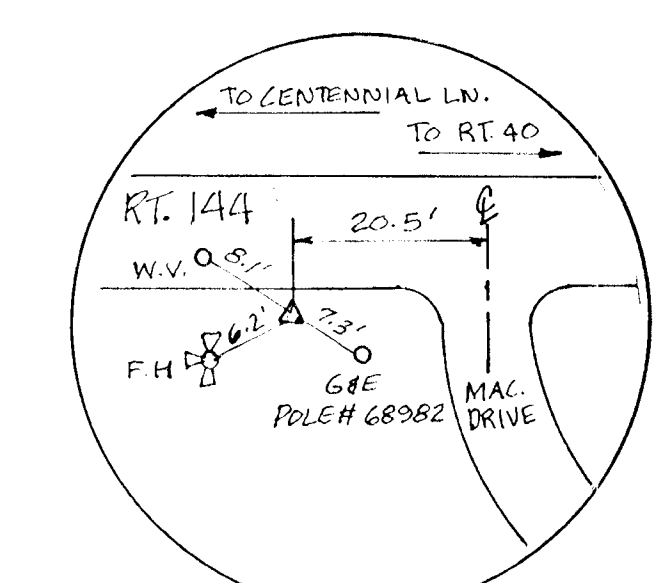
* Pump shall be capable of 5 gal/min minimum
** Pump shall be capable of 10 gal/min minimum

NOTES:
- There shall be a 5 day clear weather forecast prior to starting this work.
- The Engineer shall notify the Sediment Control Inspector prior to allowing the Contractor to begin this work.
- The Contractor shall not remove the sandbag dikes until permission is received from the Sediment Control Inspector.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND.		PREPARED BY: TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DIVISION D.P.W. / BUREAU OF ENGINEERING HOWARD COUNTY, MARYLAND.		DES: WFM DRN: WFM CHK: TW DATE: 7/28/93		WFM 2 WFM 3 NEW SHEET ADDED Sediment/Erosion Notes Added 7/93 9/93		54' DIA CMP AT STA 112 * DOWNSTREAM EXTENSION STREAM DIVERSION		CENTENNIAL LANE OLD ANNAPOLIS ROAD TO STA 136+00 CAPITAL PROJECT J-4015-111 ELECTION DISTRICT NO 2 HOWARD COUNTY, MARYLAND		SCALE AS SHOWN SHEET 14 OF 27
DIRECTOR OF PUBLIC WORKS DATE	CHIEF, BUREAU OF ENGINEERING DATE	CHIEF, TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DIVISION DATE	CHIEF, BUREAU OF HIGHWAYS DATE	BY	NO.	REVISION	DATE					

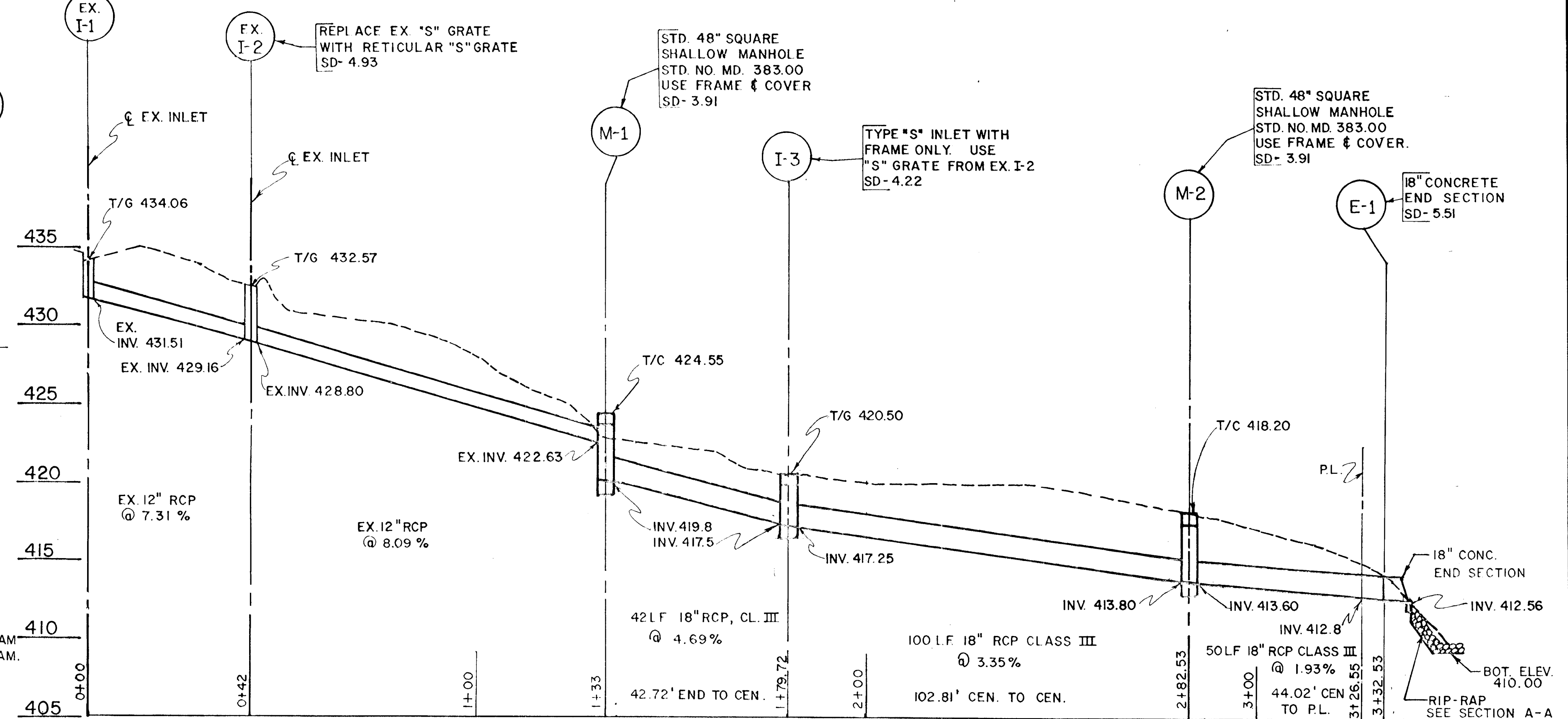
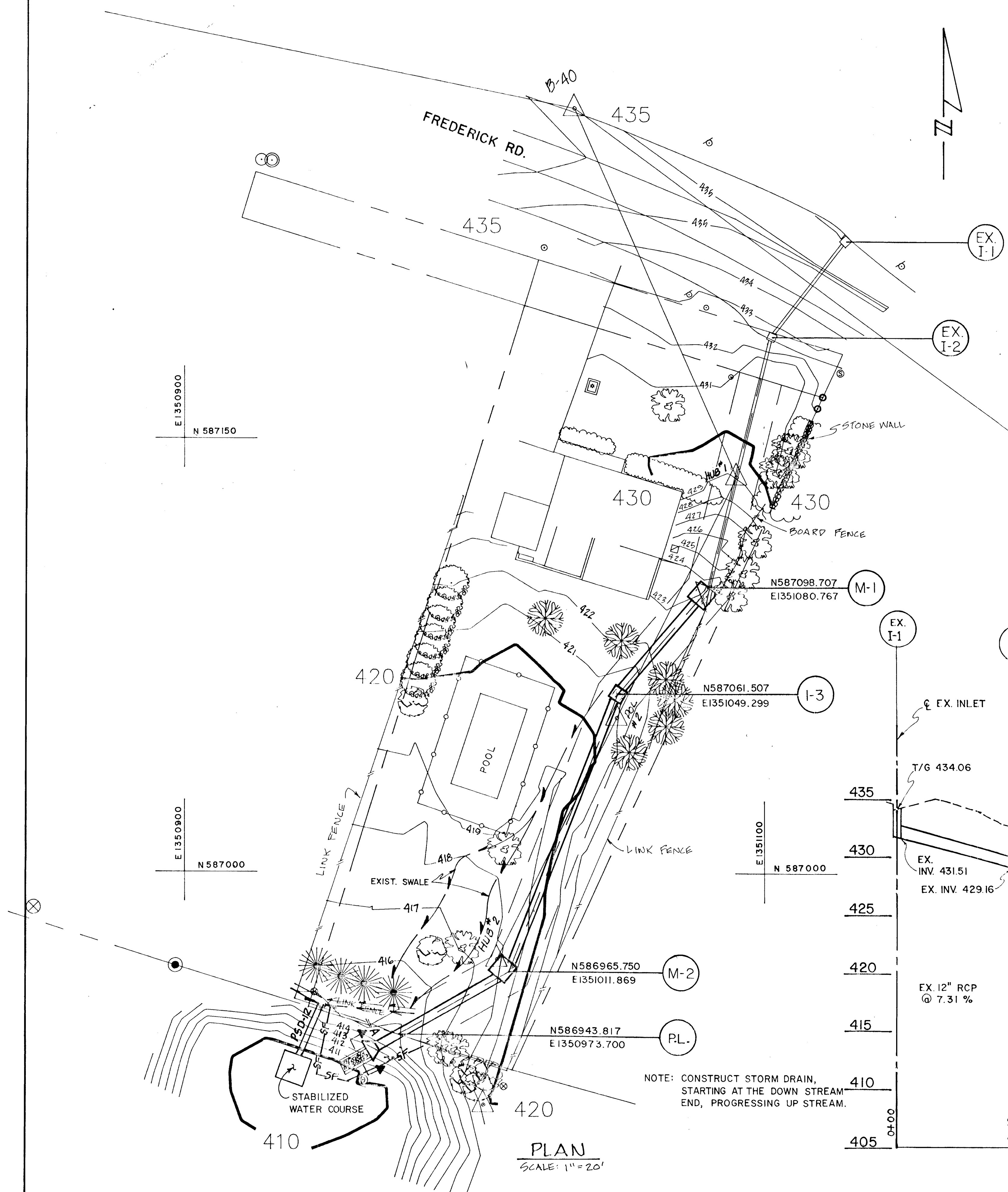
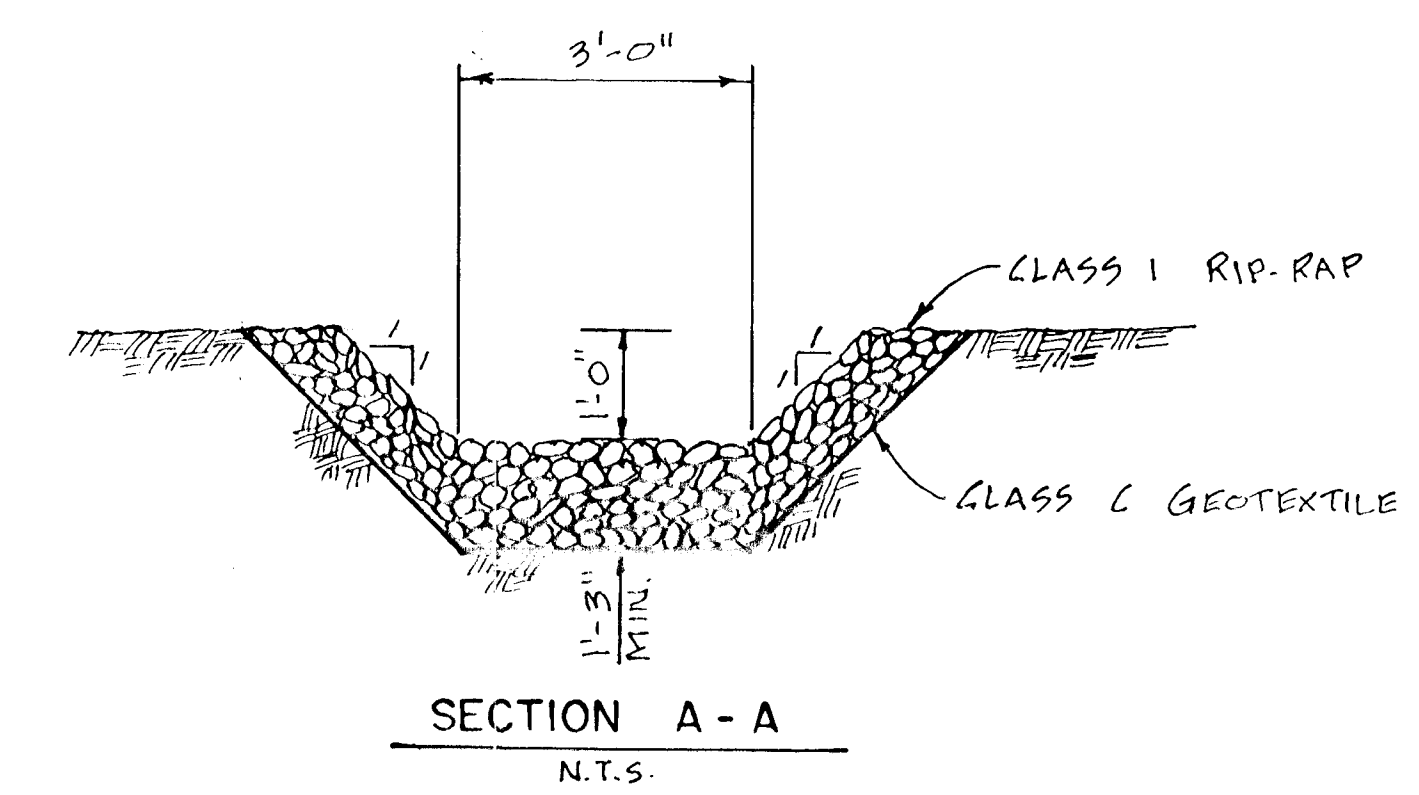


B-40
N-587264.584, E-1351034.480



B-39
N-587008.209, E-1351381.298

TO	OCC. POINT	BACK SIGHT	ANGLE	DIST.
M-1	HUB 2	HUB 1	3° 16' 32"	147.814'
I-3	"	"	358° 07' 41"	100.333'
M-2	"	"	110° 58' 58"	6.001'
PL.	"	"	206° 00' 25"	43.008'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James A. [Signature] 9/8/93
DIRECTOR OF PUBLIC WORKS DATE

James A. [Signature] 9/8/93
CHIEF, BUREAU OF ENGINEERING DATE

Elizabeth [Signature] 9/8/93
CHIEF, BUREAU OF STREETS, TRAFFIC & UTILITIES

Robert [Signature] 9/8/93
CHIEF, BUREAU OF HIGHWAYS DATE

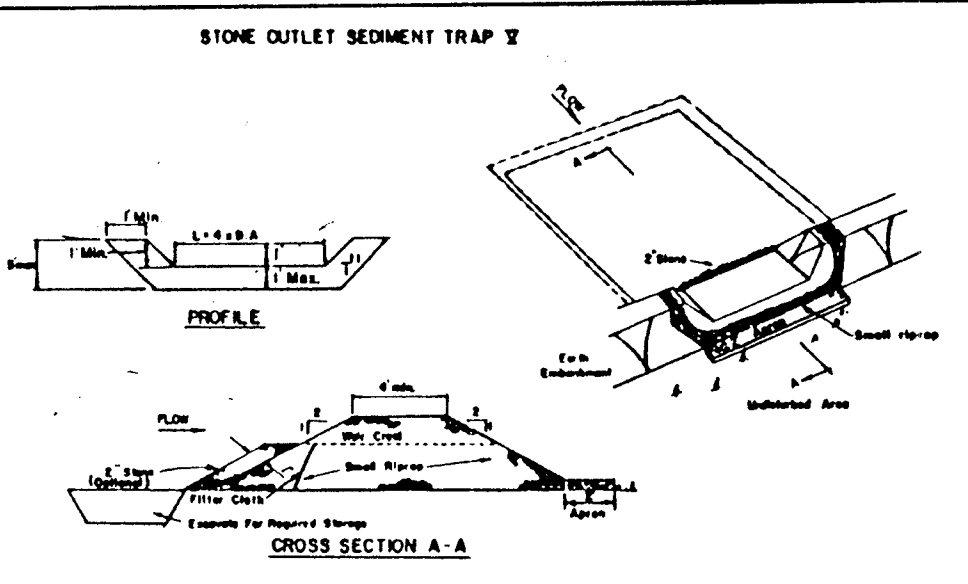


DES: T.W.					
DRN: AM/WH					
CHK: T.W.					
DATE:	BY:	NO:	REVISION:	DATE:	LOG SCALE MAP:

STORM DRAIN PROFILES
STA. 6+40±
FREDERICK ROAD

CENTENNIAL LANE
CAPITAL PROJECT J-4015-II
ELECTION DISTRICT NO. 2
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 15A OF 36



STONE OUTLET SEDIMENT TRAP

DESCRIPTION

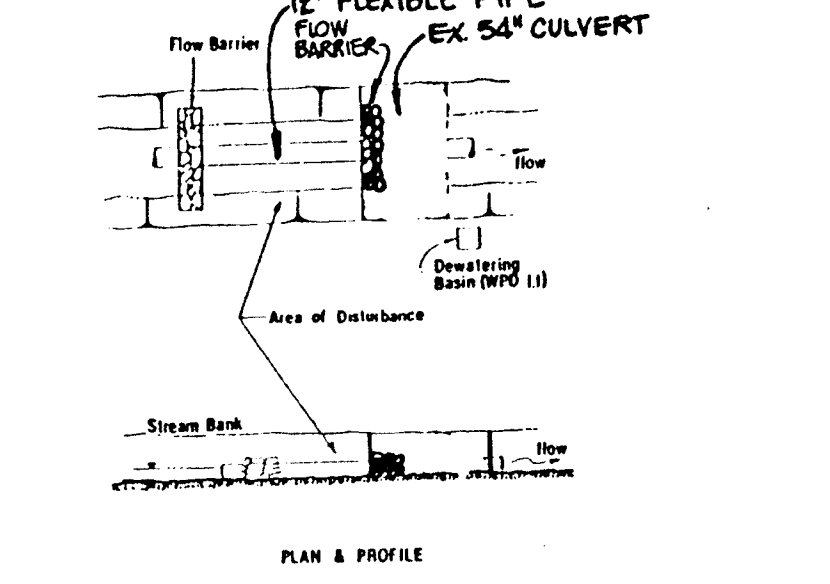
The work shall consist of installing a flow diversion structure in conjunction with construction.

Construction Requirements

- All erosion and sediment control devices shall be installed as the first order of business.
- Pipes must be staked to accommodate normal stream flow.
- The flow barrier shall be constructed of sandbags, washed riprap, or other approved material as per MSHA. The materials shall be staked to withstand normal stream flow velocities.
- All dewatering of the construction area shall be pumped to a dewatering basin (DBP) prior to re-entering the stream.

Sediment control devices shall remain in place until all disturbed areas have been stabilized in accordance with an approved regional and erosion control plan and the permitting authority approves their removal.

Maximum Drainage Area: 5 Acres	STONE OUTLET SEDIMENT TRAP	STANDARD DRAWING
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND		ST-1



FLOW DIVERSION DETAIL FOR INSTREAM CONSTRUCTION

DESCRIPTION

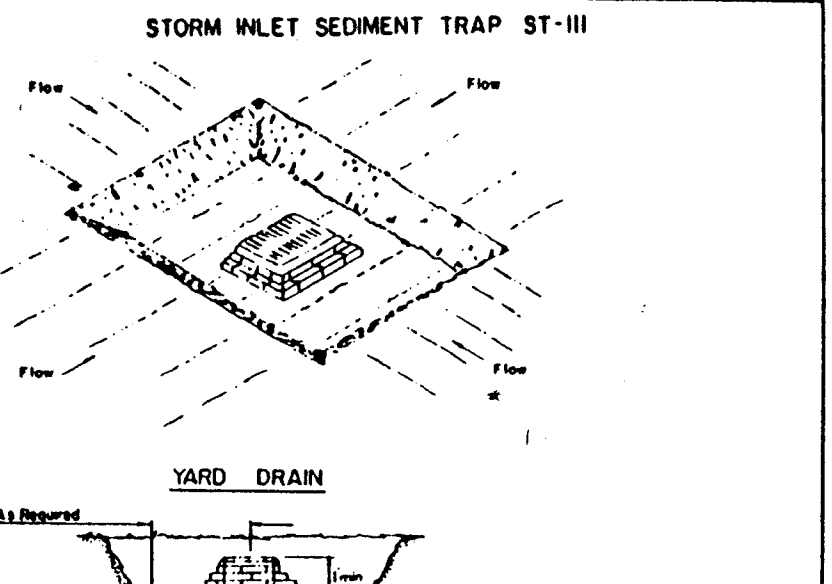
The work shall consist of installing a flow diversion structure in conjunction with construction.

Construction Requirements

- All erosion and sediment control devices shall be installed as the first order of business.
- Pipes must be staked to accommodate normal stream flow.
- The flow barrier shall be constructed of sandbags, washed riprap, or other approved material as per MSHA. The materials shall be staked to withstand normal stream flow velocities.
- All dewatering of the construction area shall be pumped to a dewatering basin (DBP) prior to re-entering the stream.

Sediment control devices shall remain in place until all disturbed areas have been stabilized in accordance with an approved regional and erosion control plan and the permitting authority approves their removal.

Maximum Drainage Area: 5 Acres	FLOW DIVERSION DETAIL FOR INSTREAM CONSTRUCTION	STANDARD DRAWING
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND		ST-1



STORM INLET SEDIMENT TRAP ST-III

DESCRIPTION

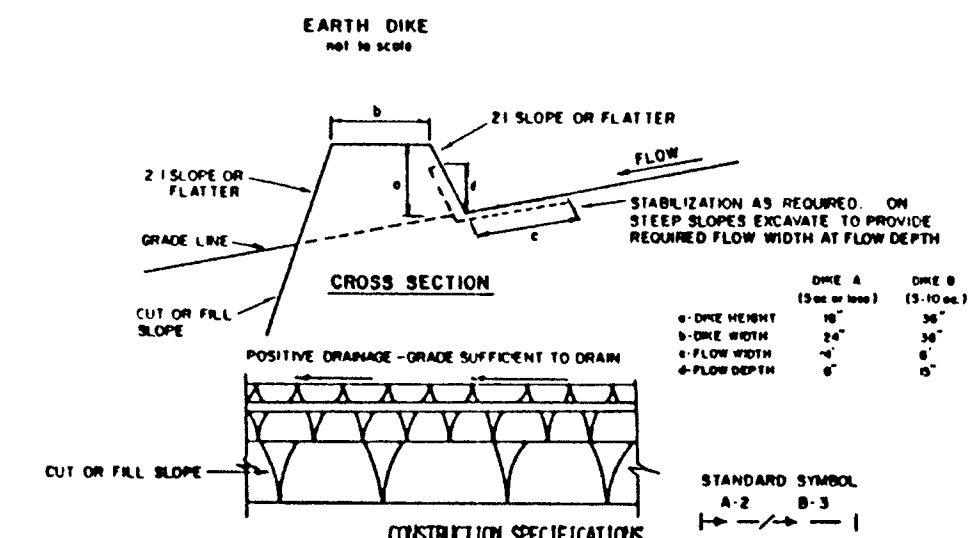
The work shall consist of installing a flow diversion structure in conjunction with construction.

Construction Requirements

- All erosion and sediment control devices shall be installed as the first order of business.
- Pipes must be staked to accommodate normal stream flow.
- The flow barrier shall be constructed of sandbags, washed riprap, or other approved material as per MSHA. The materials shall be staked to withstand normal stream flow velocities.
- All dewatering of the construction area shall be pumped to a dewatering basin (DBP) prior to re-entering the stream.

Sediment control devices shall remain in place until all disturbed areas have been stabilized in accordance with an approved regional and erosion control plan and the permitting authority approves their removal.

Maximum Drainage Area: 3 Acres	STORM INLET SEDIMENT TRAP	STANDARD DRAWING
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND		ST-III



EARTH DIKE

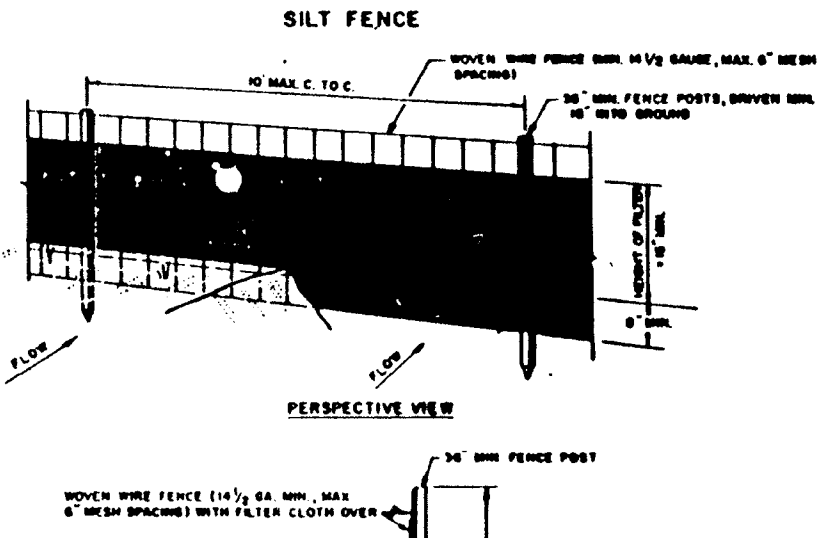
DESCRIPTION

The work shall consist of installing a flow diversion structure in conjunction with construction.

Construction Requirements

- All dikes shall be compacted by earth moving equipment.
- Dikes shall have positive drainage to an outlet.
- Top slopes shall be 2:1 and bottom slopes shall be 1:1 or flatter if desired to facilitate passing by construction traffic.
- Field location of dikes shall be adjusted as needed to utilize a stabilized safe outlet.
- Dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
- Stabilization shall be in accordance with standard specifications for seed and straw mulch or straw pallet if not in seeding season. Use flow channel as per the permit below.

Maximum Drainage Area Limit: 2 Acres	EARTH DIKE	STANDARD DRAWING
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND		ED-1



SILTY FENCE

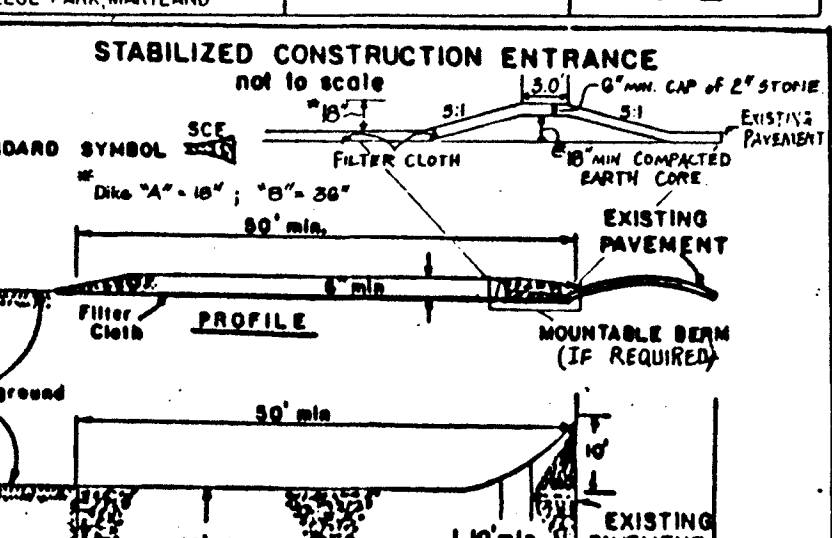
DESCRIPTION

The work shall consist of installing a flow diversion structure in conjunction with construction.

Construction Requirements

- When wire fence is to be fastened securely to fence posts with wire ties or staples.
- Filter cloth to be fastened securely to when wire fence is used. Filter cloth every 2' at top and mid section.
- When top sections of filter cloth are fastened, they shall be overlapped by six inches and covered.
- Maintenance shall be performed as needed and material removed when needed to develop in the silty fence.

Maximum Drainage Area Limit: 2 Acres	SILTY FENCE	STANDARD DRAWING
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND		BF-1



STABILIZED CONSTRUCTION ENTRANCE

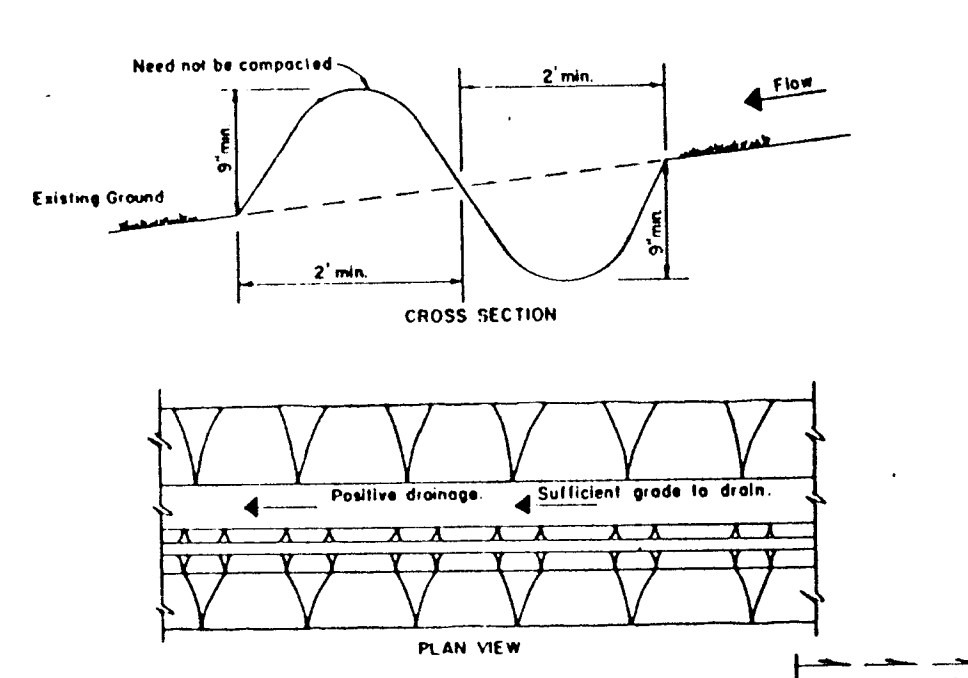
DESCRIPTION

The work shall consist of installing a flow diversion structure in conjunction with construction.

Construction Requirements

- Stone Size - 1/2" to 2" stone, or recycled or recycled concrete equivalent.
- Length - As required, but not less than 30 ft. (except on a single residence lot where a 30 ft. minimum length would apply).
- Thickness - Not less than six (6) inches.
- Width - Ten (10) ft. minimum, but not less than the full width at points where ingress or egress occurs.
- 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.
- Surface Material - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 3:1 slopes will be permitted.
- 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 clearance of any material used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
- Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
- Periodic inspection and needed maintenance shall be provided after each rain.

Maximum Drainage Area Limit: 2 Acres	STABILIZED CONSTRUCTION ENTRANCE	STANDARD DRAWING
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MD.		SC-1



PERIMETER DIKE/SWALE

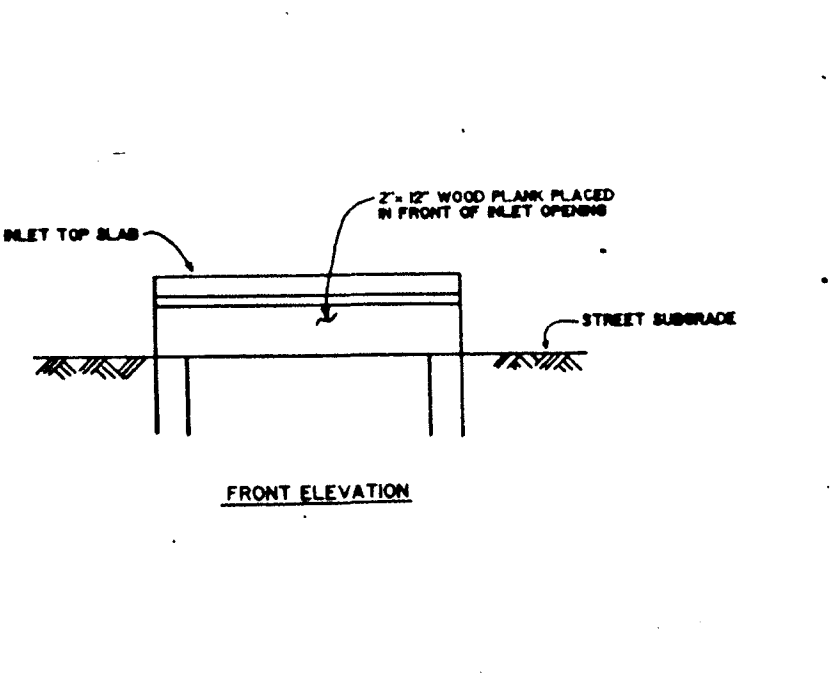
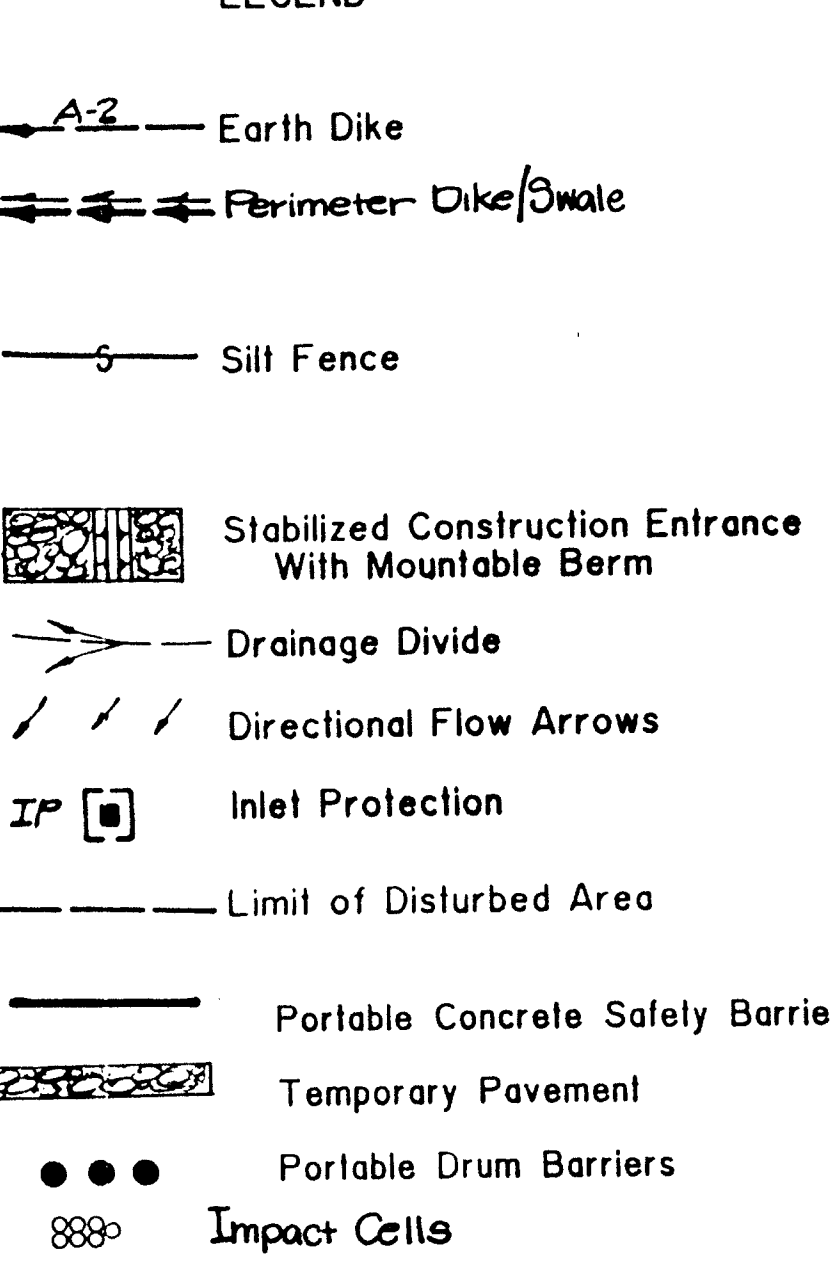
DESCRIPTION

The work shall consist of installing a flow diversion structure in conjunction with construction.

Construction Requirements

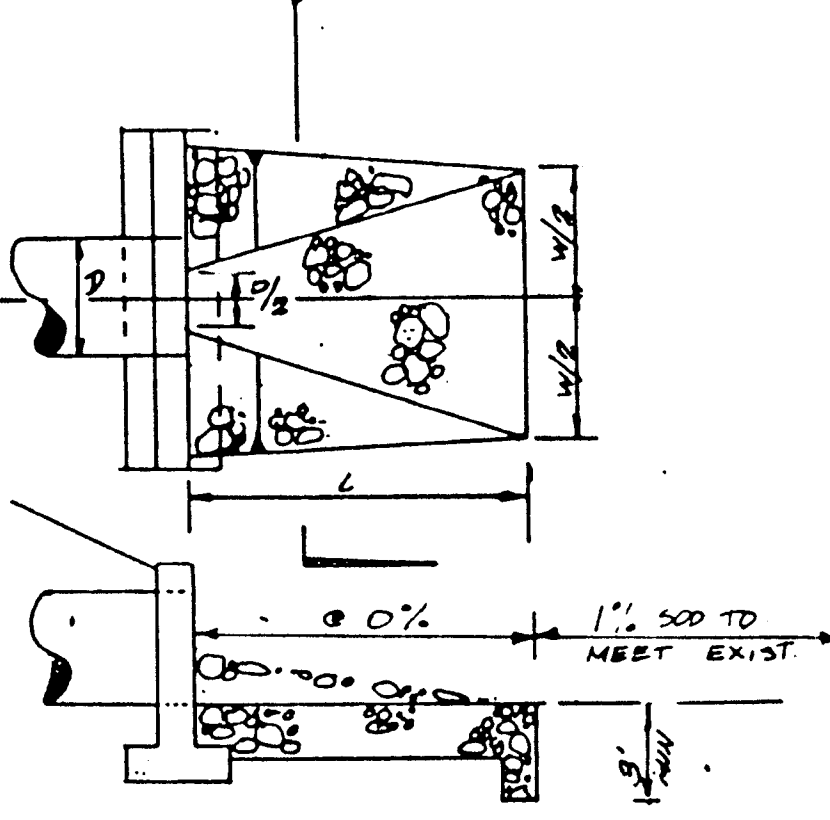
- All perimeter dike/swale shall have uninterrupted positive grade to an outlet.
- Diverted runoff from a disturbed area shall be conveyed to a sediment trapping device.
- Diverted runoff from an undisturbed area shall outlet into an undisturbed stabilized area at non-erosive velocity.
- The dike shall be excavated or graded to line, grade, and cross section as required to meet the criteria specified in the standard.
- Stabilization of the area disturbed by the dike and swale shall be done in accordance with the standard and specification for seed and straw mulch and shall be done within 10 days.
- Periodic inspection and required maintenance must be provided after each rain event.

Maximum Drainage Area Limit: 2 Acres	PERIMETER DIKE/SWALE	STANDARD DRAWING
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE COLLEGE PARK, MARYLAND		PD-1



BLOCKED INLET DETAIL

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

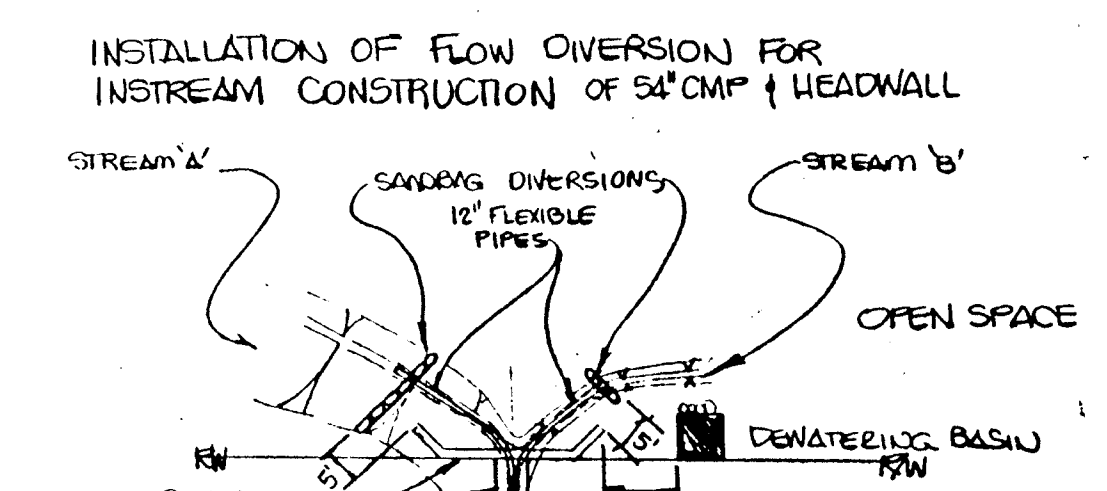


RIP-RAP OUTLET PROTECTION

NOTE: RIP-RAP SHALL BE CLASS I STONE THICKNESS SHALL BE 15" UNLESS OTHERWISE NOTED.

GENERAL NOTES FOR MAINTENANCE OF TRAFFIC

- Contractor shall provide for two-way traffic at all times on Centennial Lane. See typical detour details for applicable typical section.
- Contractor shall provide MSHA STD MD-648.32 temporary precast concrete safety barriers and portable drum barriers as shown on plans. Place a steady burn warning light every 60 feet. Place Type A high intensity flashing lights on drums and concrete barriers at all breaks and intersections. See typical detour details for applicable section.
- Signs indicated and designations shown to refer to the standard signs of the "Manual on Uniform Traffic Control Devices", latest edition. All traffic control signs, devices and applications shall conform to the "Manual on Uniform Traffic Control Devices" and "Work Zone Traffic Control" as published by the U.S. Department of Transportation, Federal Highway Administration.
- Throughout the entire phase of construction, provide adequate temporary pavement marking of centerline and edge of roadway line.



INSTALLATION OF FLOW DIVERSION FOR INSTREAM CONSTRUCTION OF 54" CMP & HEADWALL

GENERAL NOTES FOR MAINTENANCE OF TRAFFIC

- Obtain grading, C.O.E. and WRA Permits for project.
- Install Phase I temporary sediment control devices & maintenance of traffic signage. Construct the storm drain to be used as part of the sediment control plan in the following areas:
 - Construct proposed Manhole 22-A, Inlet 22-B and connecting storm drain.
 - Inlet 14, 15, 16, and 17 to completed outfall.
 - Inlet 1-19 through completed outfall to temporary sediment trap #3.
- Install the flow diversion for instream construction at station 112+00 left, (Pipe extension and removal of existing headwall; see details on Maintenance of Traffic and Sediment Control Plans, sheets 16 and 18 of 27). PLEASE NOTE: The County requires a 48-hour clear weather forecast prior to any work in this area. Upon completion of the work in this area, remove temporary flow diversion and dewatering basin to restore natural flow in the channel.
- Install temporary paving as shown.
- Utility companies to relocate existing utilities within right-of-way prior to sewer, storm drain and roadway construction.
- Construct Gabion Wall with filter fabric (see Gabion Wall Profile and Detail Sheet) as shown.
- Relocate sanitary sewer mains within limits of Phase I construction prior to Phase I roadway construction per Water and Sewer Main Relocation Plan, Capital Project No. W-8156, Contract 24-1726-B.
- Construct storm drain inlets within Phase I construction area. Temporarily block any proposed or existing storm drain inlets which cannot be connected to a completed outfall.
- Construct Phase II Centennial Lane, omitting sidewalks and curb and gutter where conflicts arise with sediment control devices. Construct tie-ins at Station 136+00, Centennial Lane; Duck Foot Lane; and The Elementary School Entrances. Maintain one lane of traffic at all times through tie-ins.
- When area is brought to final grade, construct remaining curb, gutter & sidewalk, provide permanent vegetative stabilization. See Seeding notes.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

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

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

- Preferred: Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 square feet) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 100 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs/1000 square feet).
- Acceptable: Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square feet) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 square feet) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 through April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 square feet) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.5 lbs/1000 square feet) of weeping lovegrass. During the period of October 16 through 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 per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

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

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

TEMPORARY SEEDING NOTES

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

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

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

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushels per acre of annual ryegrass (0.2 lbs/1000 square feet). For the period May 1 through August 14, seed with 3 lbs per acre of weeping lovegrass (0.7 lbs/1000 square feet). For the period November 16 through 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 square feet) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gallons/1000 square feet) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gallons/1000 square feet) for anchoring.

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

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 has been prepared in accordance with the requirements of the Howard Soil Conservation District

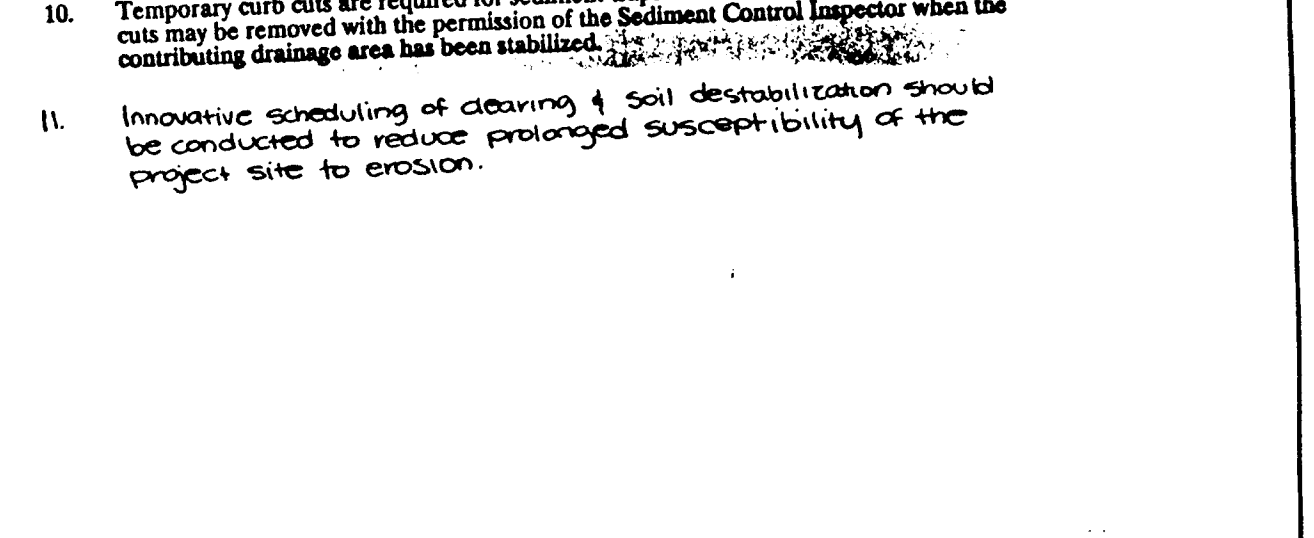
Signature: *[Signature]* Date: Nov 20 1991

SEDIMENT CONTROL NOTES

- A minimum of 24 hours notice must be given to the Howard County Office of Inspections and Permits prior to the start of any construction 880-3450
- 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.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within:
 - Calendar days for all perimeter slopes and all slopes greater than 3:1;
 - 14 days as to all other disturbed or graded areas on the project site.
- All sediment traps shown must be fenced and warning signs posted around their perimeter in accordance with Volume 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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 seeding (Sec. 51), soil (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.
- 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.
- Site Analysis:

Total Area of Site:	8,804 acres
Area Disturbed:	8,804 acres
Area to be vegetatively stabilized:	5,904 acres
Total Cut:	23,300 CY
Total Fill:	8,000 CY

 Obsolete waste/hazardous materials to be placed on an approved site WMA. Sediment control devices in place.
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary, by the Howard County DPW Sediment Control Inspector.
- Temporary curb cuts are required for sediment traps to allow runoff to reach traps. Curb may be removed with the permission of the Sediment Control Inspector when the contributing drainage area has been stabilized.
- Innovative scheduling of clearing & soil stabilization should be conducted to reduce prolonged susceptibility of the project site to erosion.



CAPITAL PROJECT J-4015-III SEQUENCE OF CONSTRUCTION FOR MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL

Phase I Construction

- Obtain grading, C.O.E. and WRA Permits for project.
- Install Phase I temporary sediment control devices & maintenance of traffic signage. Construct the storm drain to be used as part of the sediment control plan in the following areas:
 - Construct proposed Manhole 22-A, Inlet 22-B and connecting storm drain.
 - Inlet 14, 15, 16, and 17 to completed outfall.
 - Inlet 1-19 through completed outfall to temporary sediment trap #3.
- Install the flow diversion for instream construction at station 112+00 left, (Pipe extension and removal of existing headwall; see details on Maintenance of Traffic and Sediment Control Plans, sheets 16 and 18 of 27). PLEASE NOTE: The County requires a 48-hour clear weather forecast prior to any work in this area. Upon completion of the work in this area, remove temporary flow diversion and dewatering basin to restore natural flow in the channel.
- Install temporary paving as shown.
- Utility companies to relocate existing utilities within right-of-way prior to sewer, storm drain and roadway construction.
- Construct Gabion Wall with filter fabric (see Gabion Wall Profile and Detail Sheet) as shown.
- Relocate sanitary sewer mains within limits of Phase I construction prior to Phase I roadway construction per Water and Sewer Main Relocation Plan, Capital Project No. W-8156, Contract 24-1726-B.
- Construct storm drain inlets within Phase I construction area. Temporarily block any proposed or existing storm drain inlets which cannot be connected to a completed outfall.
- Construct Phase II Centennial Lane, omitting sidewalks and curb and gutter where conflicts arise with sediment control devices. Construct tie-ins at Station 136+00, Centennial Lane; Duck Foot Lane; and The Elementary School Entrances. Maintain one lane of traffic at all times through tie-ins.
- When area is brought to final grade, construct remaining curb, gutter & sidewalk, provide permanent vegetative stabilization. See Seeding notes.

Phase II Construction

- Re-direct and maintain two-way traffic on completed Phase I construction.
- Install Phase II temporary sediment devices & maintenance of traffic signage. Construct storm drain to be used as part of the sediment control plan in the following areas, making sure to connect to a completed outfall, as follows:
 - Inlets 14, 15, 16, and 17 to completed outfall.
 - Inlet 1-19 through completed outfall.
- Utilities companies to relocate existing utilities prior to sewer, storm drain or roadway construction.
- Construct remaining storm drains within Phase II construction. Temporarily block any proposed storm drain inlet which cannot be connected to a completed outfall.
- Construct Phase II of Centennial Lane, omitting curb & gutter where conflicts arise with sediment control devices. Construct tie-ins at Station 136+00, Centennial Lane; Duck Foot Lane; and The Elementary School Entrances. Maintain one lane of traffic at all times through tie-ins.
- When area is brought to final grade, construct remaining curb & gutter, provide permanent vegetative stabilization. See seeding notes. At this time, Contractor shall remove accumulated sediment from the proposed stormwater management ponds #1 and #2. The ponds shall be graded in accordance with these plans and stabilized using permanent seeding methods. Please note: the storm drains shall be flushed prior to the conversion of the sediment ponds to stormwater management ponds.
- Each stormwater management pond bottom shall be planted with emergent wetland grasses upon completion of conversion from sediment control pond to permanent storm water management pond. Also, the outfall area of the 54" CMP and the 15" RCP opposite the stormwater management facilities are to be planted with emergent wetland grasses.

DEVELOPER'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 Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Signature of Developer: _____ Date: _____

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

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

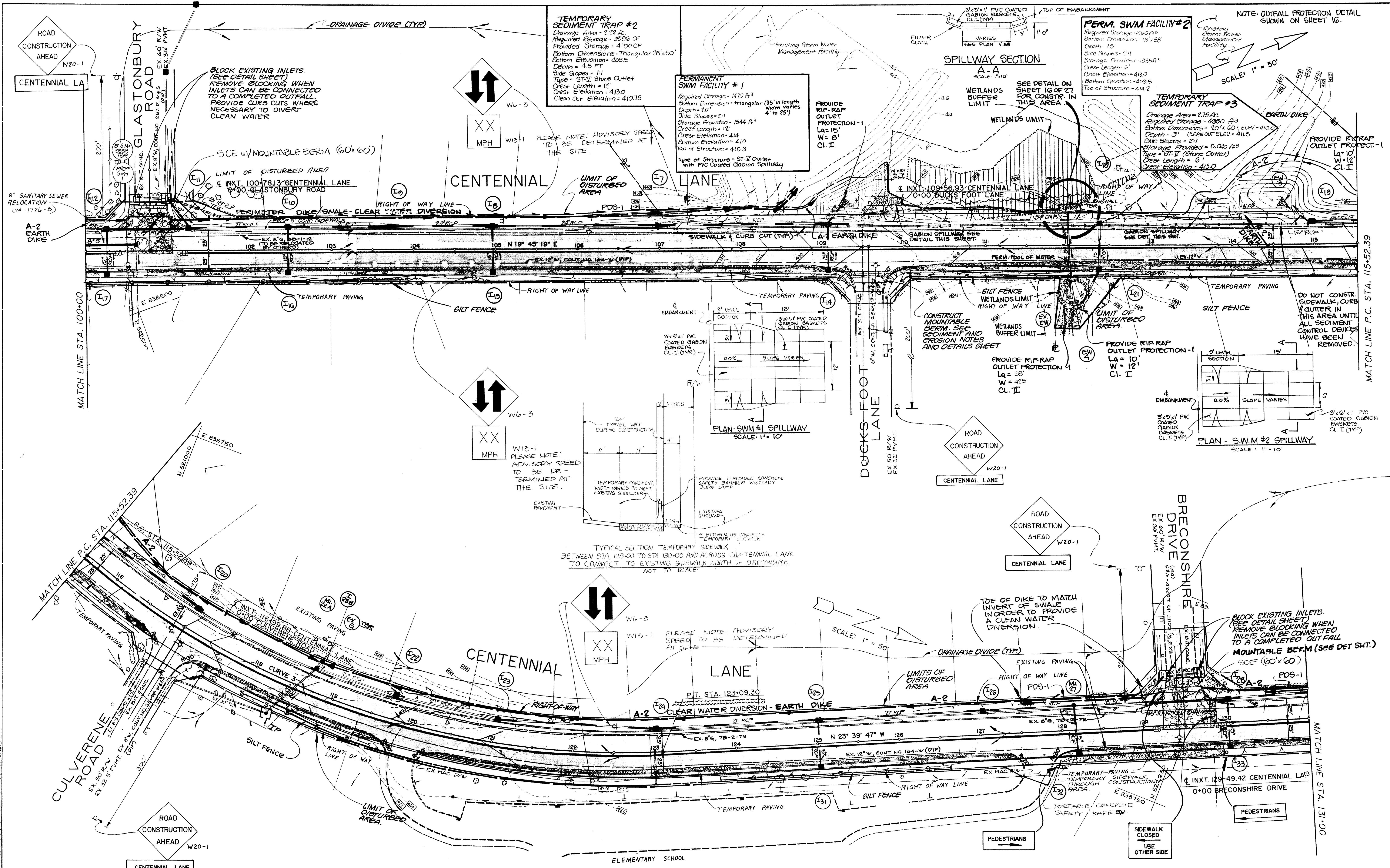
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
13011 461-0078 D.C. Metro: (301) 621-5788

DESIGNED BY: JBA/KAM
CHECKED BY: JDM
DATE: 10/91

MAINTENANCE OF TRAFFIC AND SEDIMENT CONTROL NOTES AND DETAILS CENTENNIAL LANE

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

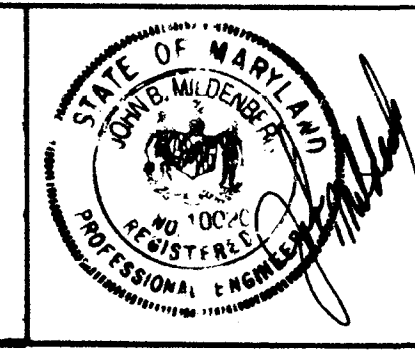
SCALE AS SHOWN
SHEET 16 OF 27



1/196
 3. Submitted to the Co. Dept. of Eng. (S.E.S. 8/23/88)
 4. Submitted to the Co. Dept. of Eng. (S.E.S. 8/23/88)
 5. Submitted to the Howard County Dept. of Eng. (S.E.S. 8/23/88)
 6. Submitted to the Howard County Dept. of Eng. (S.E.S. 8/23/88)

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *[Signature]* DATE: 12/21/91
 Chief, Bureau of Engineering: *[Signature]* DATE: 12/21/91
 Chief, Bureau of Highways: *[Signature]* DATE: 12/14/91

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) 621-5768

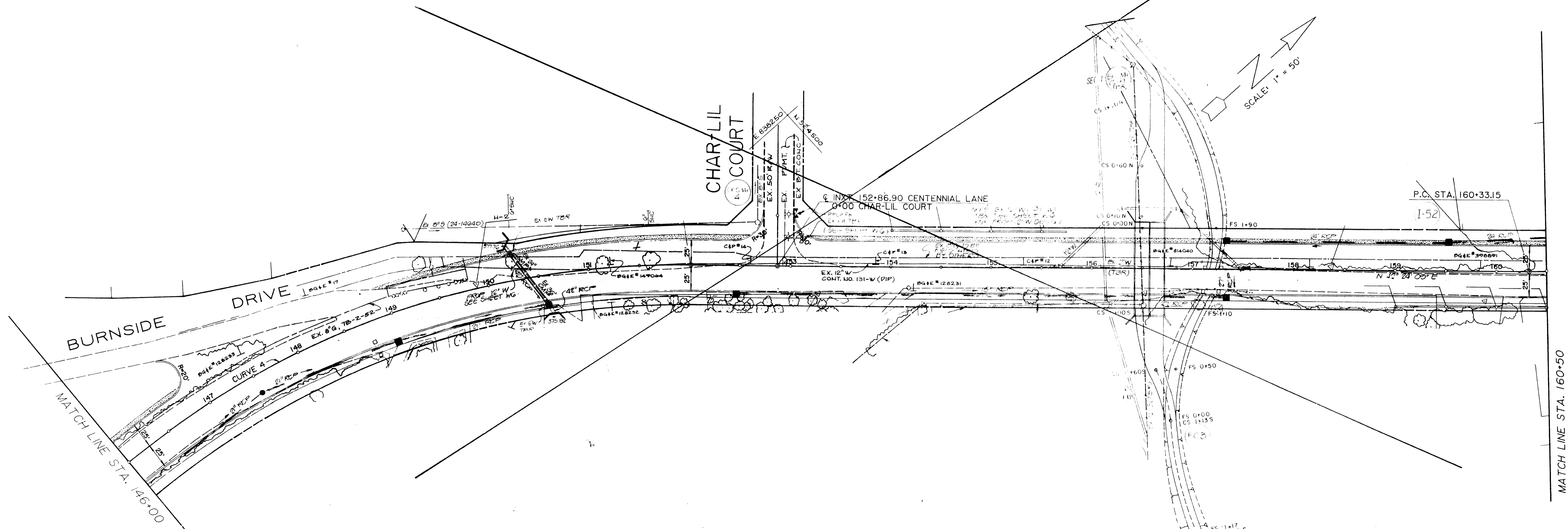
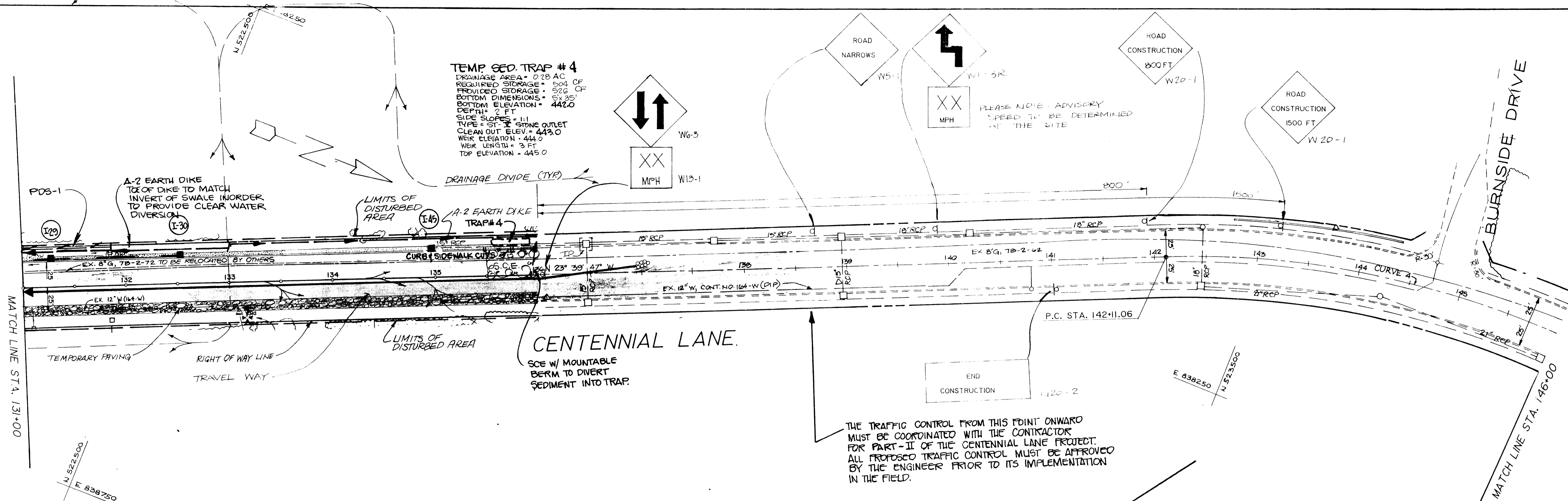


DES: PFB	KAM	1	Eliminate watermain reserves	JAN/92
DRN: LSM				
CHK: JM				
DATE: 10/91	BY	NO.	REVISION	DATE

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

CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 135+00
 CAPITAL PROJECT J-4015- III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 18 OF 27



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Elizabeth Anderson DeLoe 12/2/91
 CHIEF, BUREAU OF PUBLIC WORKS

William C. Williams 12/4/91
 CHIEF, BUREAU OF HIGHWAYS

MILDENBERG & ASSOCIATES, INC.
 ENGINEERS - SURVEYORS - PLANNERS

3300 North River Road, Suite 202, Elkhart, Ga., Maryland 21045-2350
 (301) 461-0076 D.C. Merc. (301) 621-5766



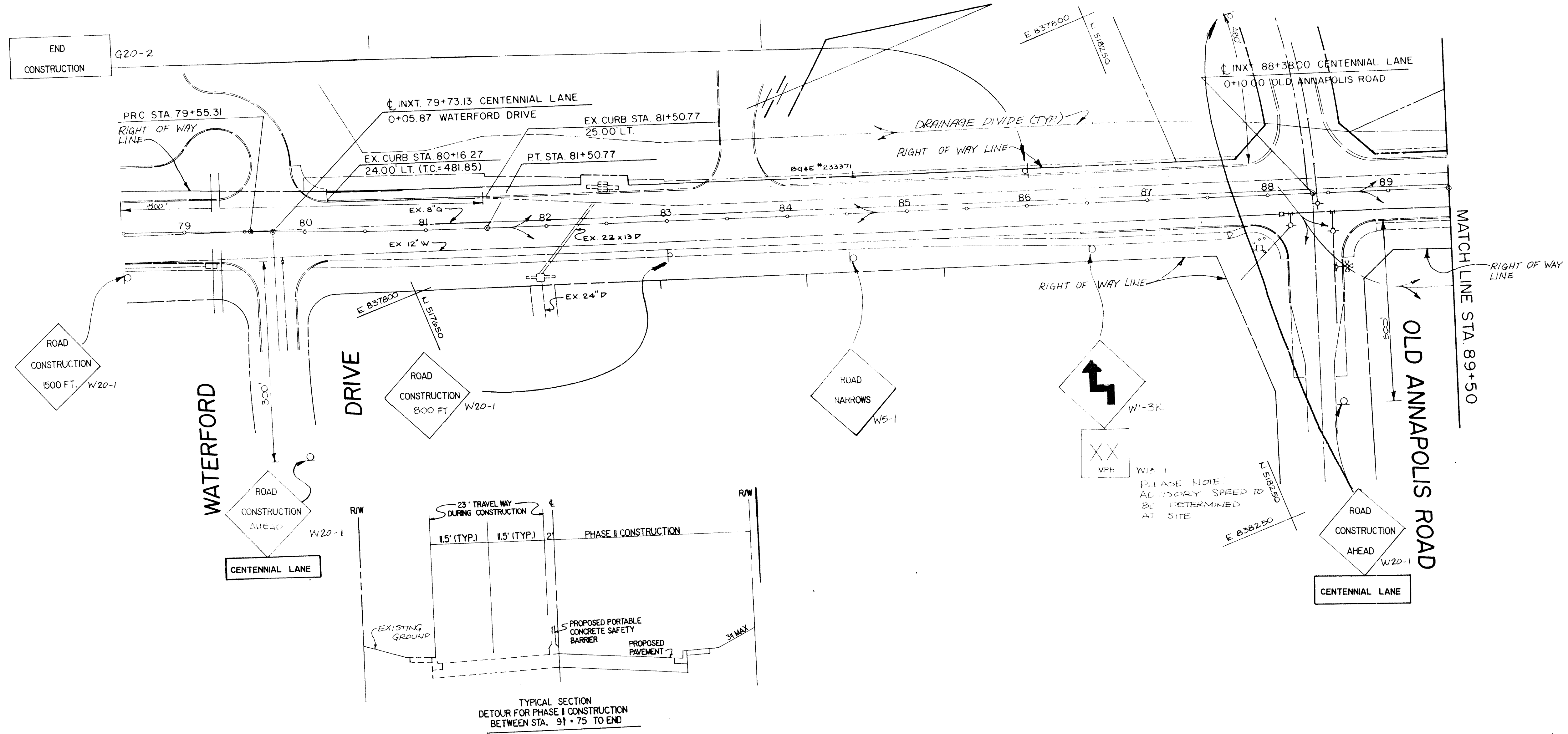
DES: JPM/KAM	KAM	1	Eliminate watermain relocation references	JAN92
DRN: STAFF				
CHK: JPM				
DATE: 11/2/91	BY: NO.	REVISION	DATE	600 SCALE MAP NO. BLOCK NO.

PHASE I
MAINTENANCE OF TRAFFIC
AND SEDIMENT CONTROL
STA. 131+00 TO 136+00
CENTENNIAL LANE

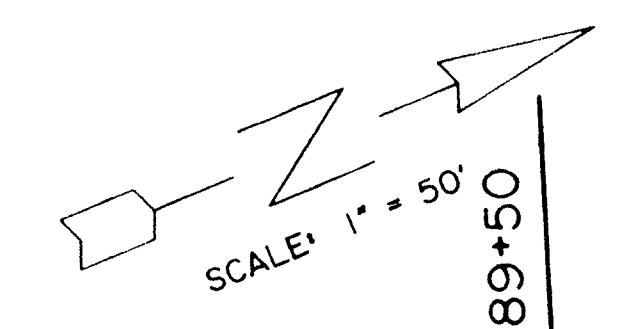
CENTENNIAL LANE
 OLD ANNAPOLIS ROAD TO STA. 136+00
 CAPITAL PROJECT J-4015- III
 ELECTION DISTRICT NO. 2
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

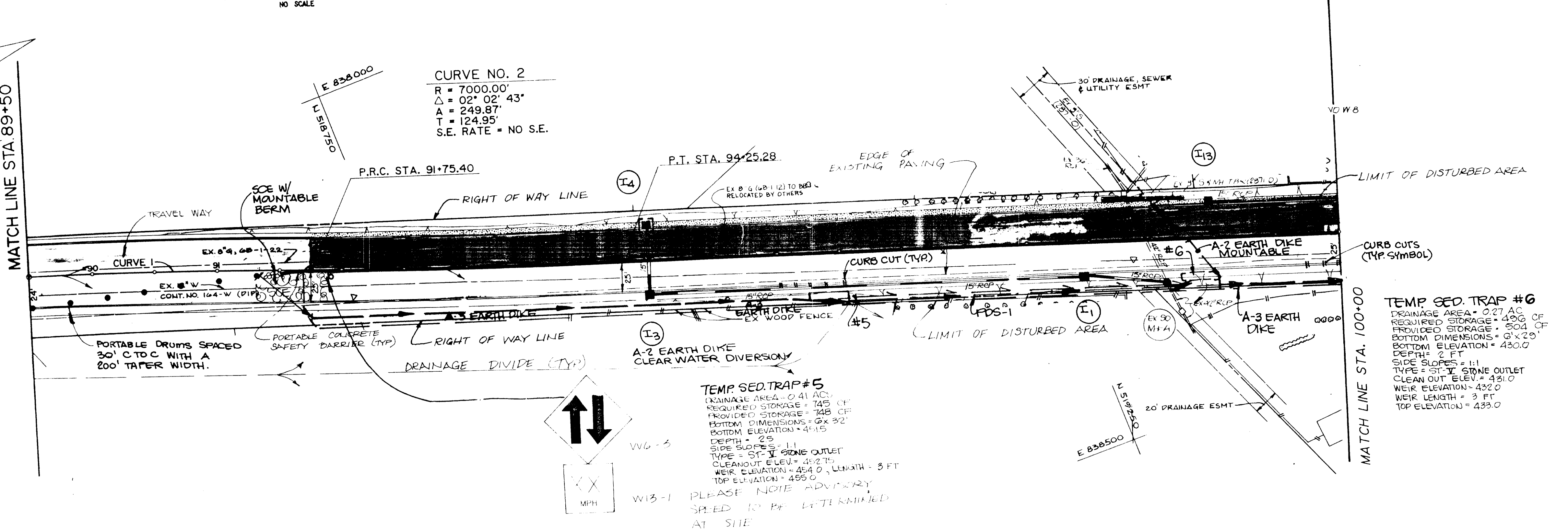
SHEET 10 OF 27



TYPICAL SECTION
 DETOUR FOR PHASE I CONSTRUCTION
 BETWEEN STA. 91+75 TO END
 NO SCALE



CURVE NO. 2
 R = 7000.00'
 $\Delta = 02^\circ 02' 43"$
 A = 249.87'
 T = 124.95'
 S.E. RATE = NO S.E.



TEMP SED. TRAP #6
 DRAINAGE AREA = 0.27 AC
 REQUIRED STORAGE = 490 CF
 PROVIDED STORAGE = 504 CF
 BOTTOM DIMENSIONS = 6' X 20'
 BOTTOM ELEVATION = 430.0
 DEPTH = 2 FT
 SLOPE = 1:1
 TYPE = ST. Y. STONE OUTLET
 CLEAN OUT ELEV = 431.0
 WEIR ELEVATION = 432.0
 WEIR LENGTH = 3 FT
 TOP ELEVATION = 433.0

TEMP SED. TRAP #5
 DRAINAGE AREA = 0.41 AC
 REQUIRED STORAGE = 745 CF
 PROVIDED STORAGE = 748 CF
 BOTTOM DIMENSIONS = 6' X 30'
 BOTTOM ELEVATION = 414.5
 DEPTH = 2.5
 SLOPE = 1:1
 TYPE = ST. Y. STONE OUTLET
 CLEANOUT ELEV = 412.75
 WEIR ELEVATION = 414.0, LENGTH = 3 FT
 TOP ELEVATION = 455.0

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James G. Lewis 12/1/91
 CHIEF, BUREAU OF ENGINEERING

Charles W. Anderson 12/1/91
 CHIEF, ROADS, BRIDGES & STORMDRAINAGE

William W. Wehner 12/1/91
 CHIEF, BUREAU OF HIGHWAYS

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

2300 North Ridge Road, Suite 205, Ellicott City, Maryland 21045-2350
 (301) 461-0076 D.C. Metro: (301) 621-5788



DES: JBM/KAM					
DRN: STAFF					
CHK: JBM					
DATE: 10/91	BY: NO	REVISION	DATE	600' SCALE MAP NO	BLOCK NO

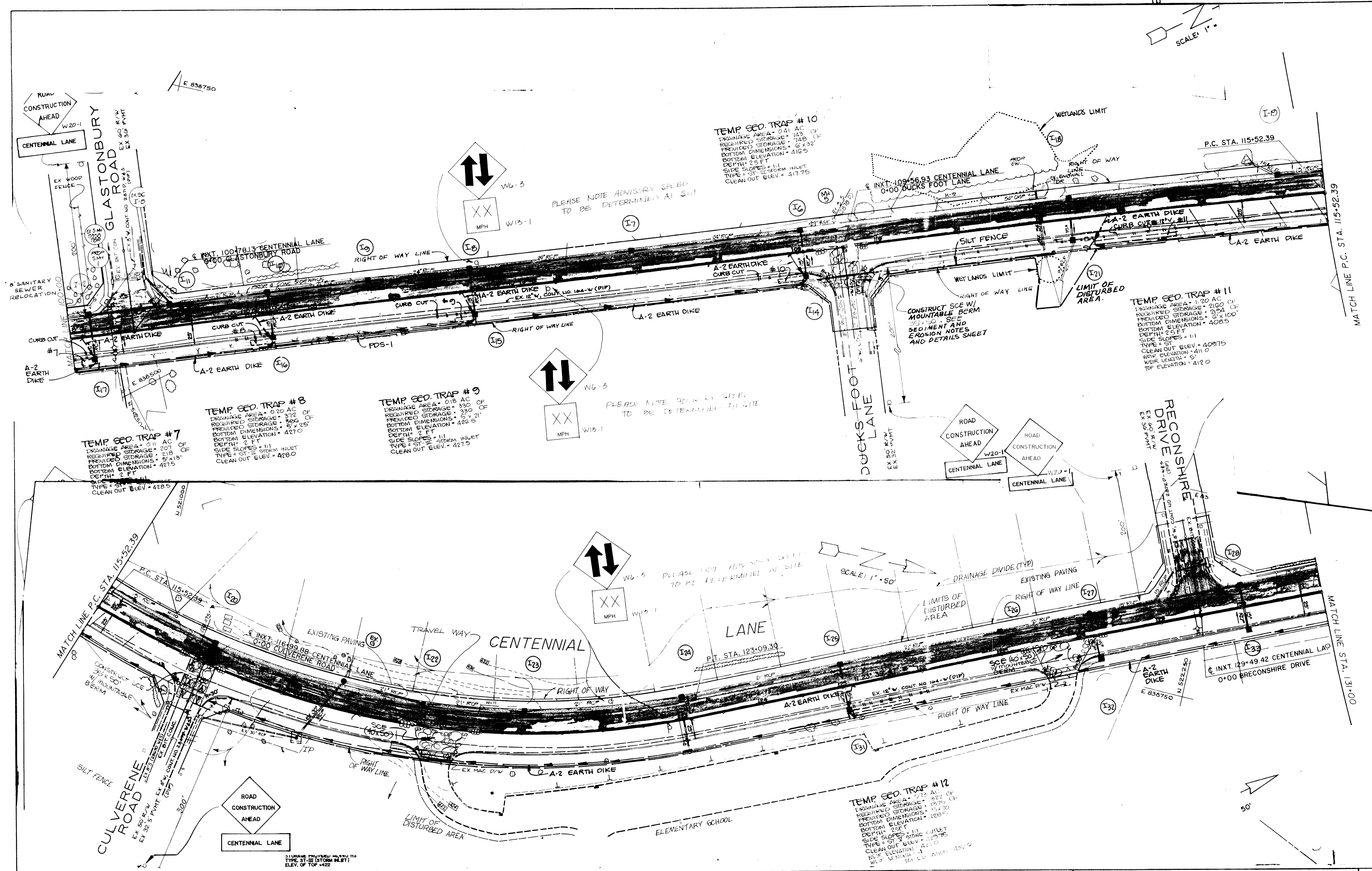
PHASE II
 MAINTENANCE OF TRAFFIC
 AND SEDIMENT CONTROL
 STA. 80+16.27 TO 100+00
 CENTENNIAL LANE

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 62 OF 27

1196

SCALE: 1" = 50'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

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

Michael R. Kelly 12/3/91
CHIEF, BUREAU OF ENGINEERING DATE

William W. Hancock 12/1/91
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) 621-5788

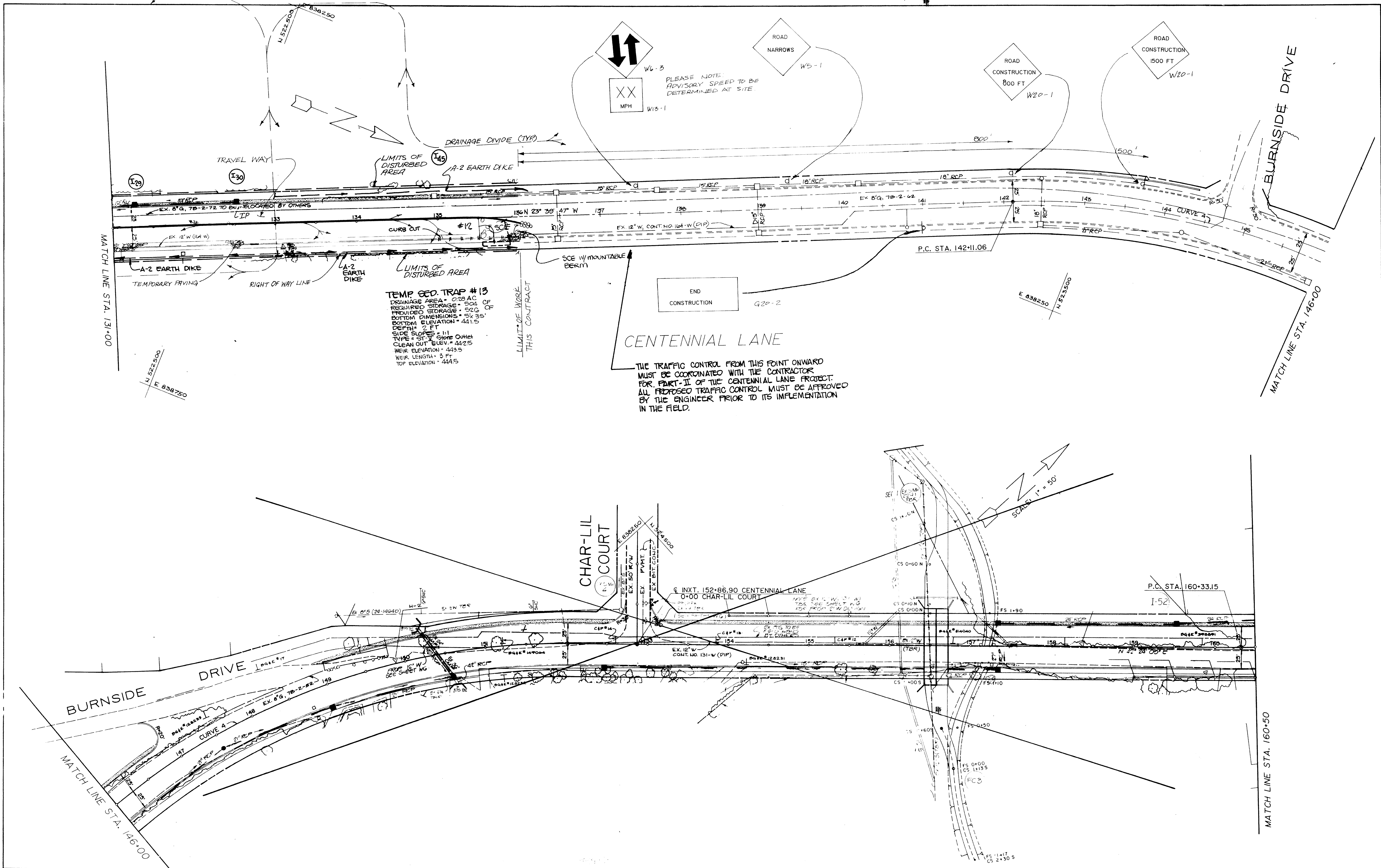


DES: JEM/KAM	KAM	1	Eliminate watermain relocation references	3/2/92
DRN: STAFF				
CHK: JEM				
DATE: 10/91	BY: NO	REVISION	DATE	600' SCALE MAP NO. BLOCK NO.

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



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James J. ... 12/14/11
 DIRECTOR OF PUBLIC WORKS DATE

William W. ... 12/14/11
 CHIEF, BUREAU OF HIGHWAYS DATE

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

2300 North Ridge Road, Suite 225, Ellicott City, Maryland 21043-3350
 (301) 461-0076 D.C. Merc. (301) 621-5786



DES: KAM	KAM	Eliminate watermain relocation references	JAN 02
DRN: KAM			
CHK: JBM			
DATE: 10/01	BY	NO.	REVISION

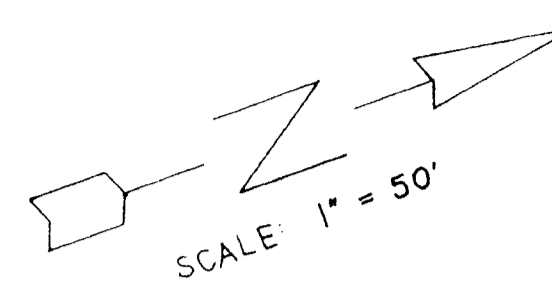
PHASE II
 MAINTENANCE OF TRAFFIC
 AND SEDIMENT CONTROL
 STA. 131+00 TO 136+00
 CENTENNIAL LANE

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

SCALE AS SHOWN
 SHEET 22 OF 27

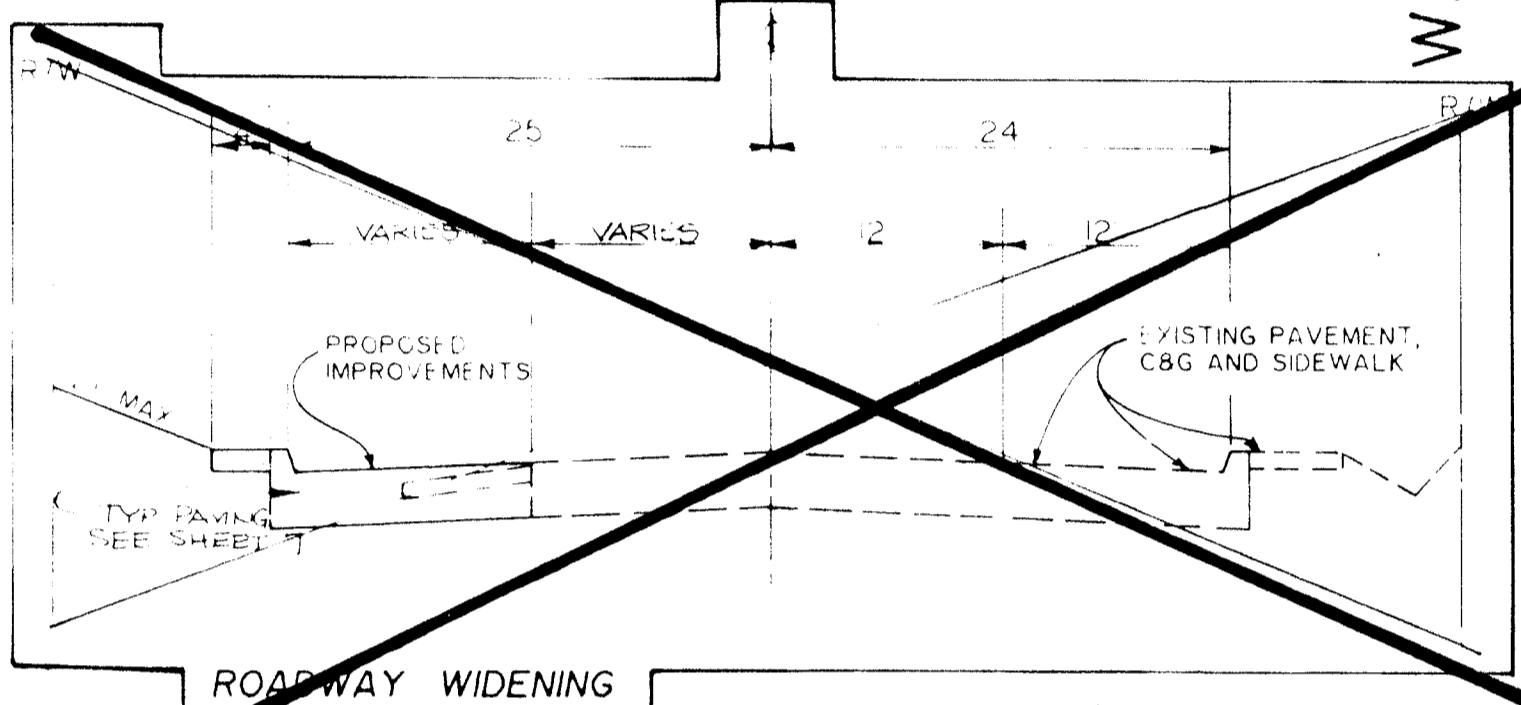
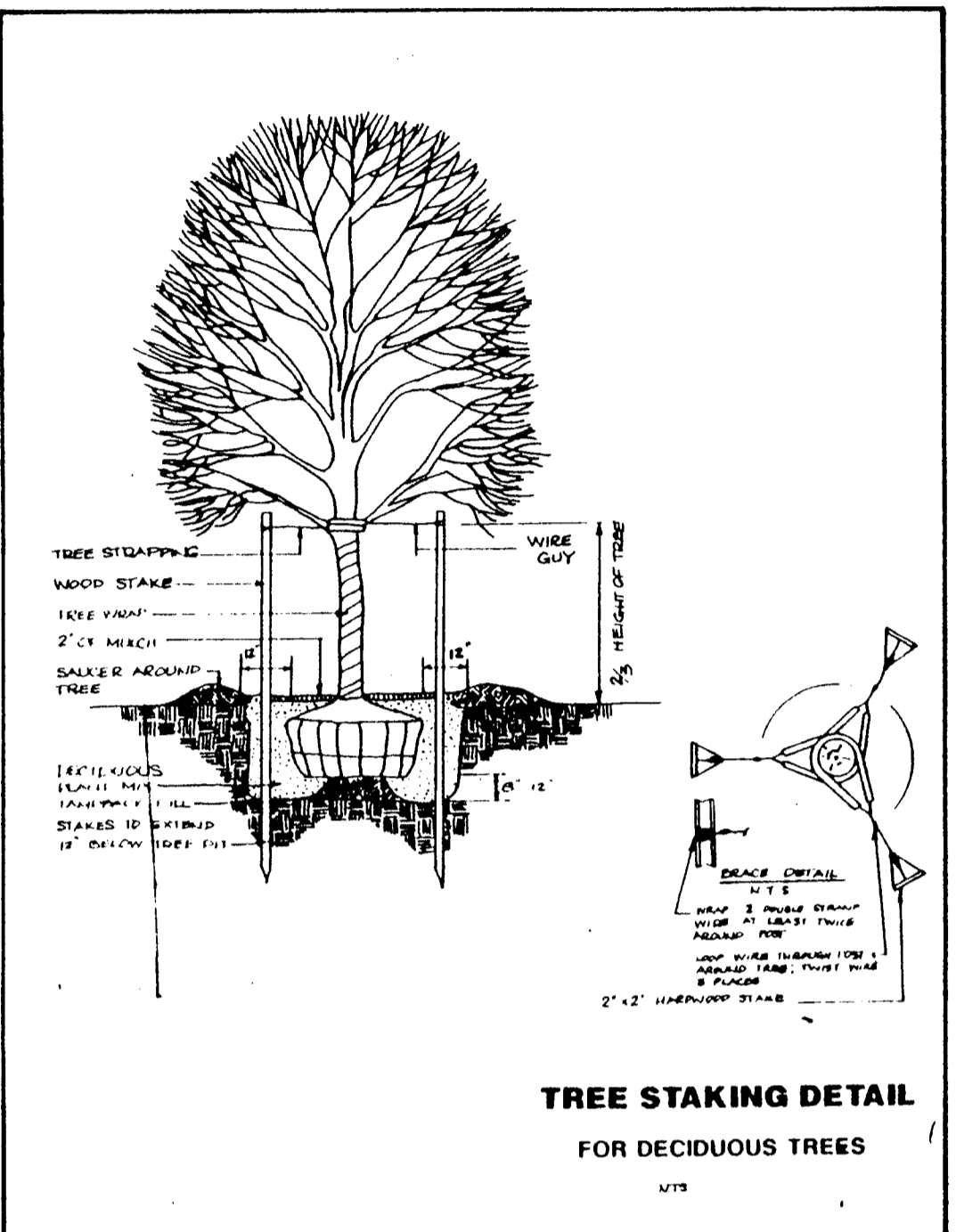
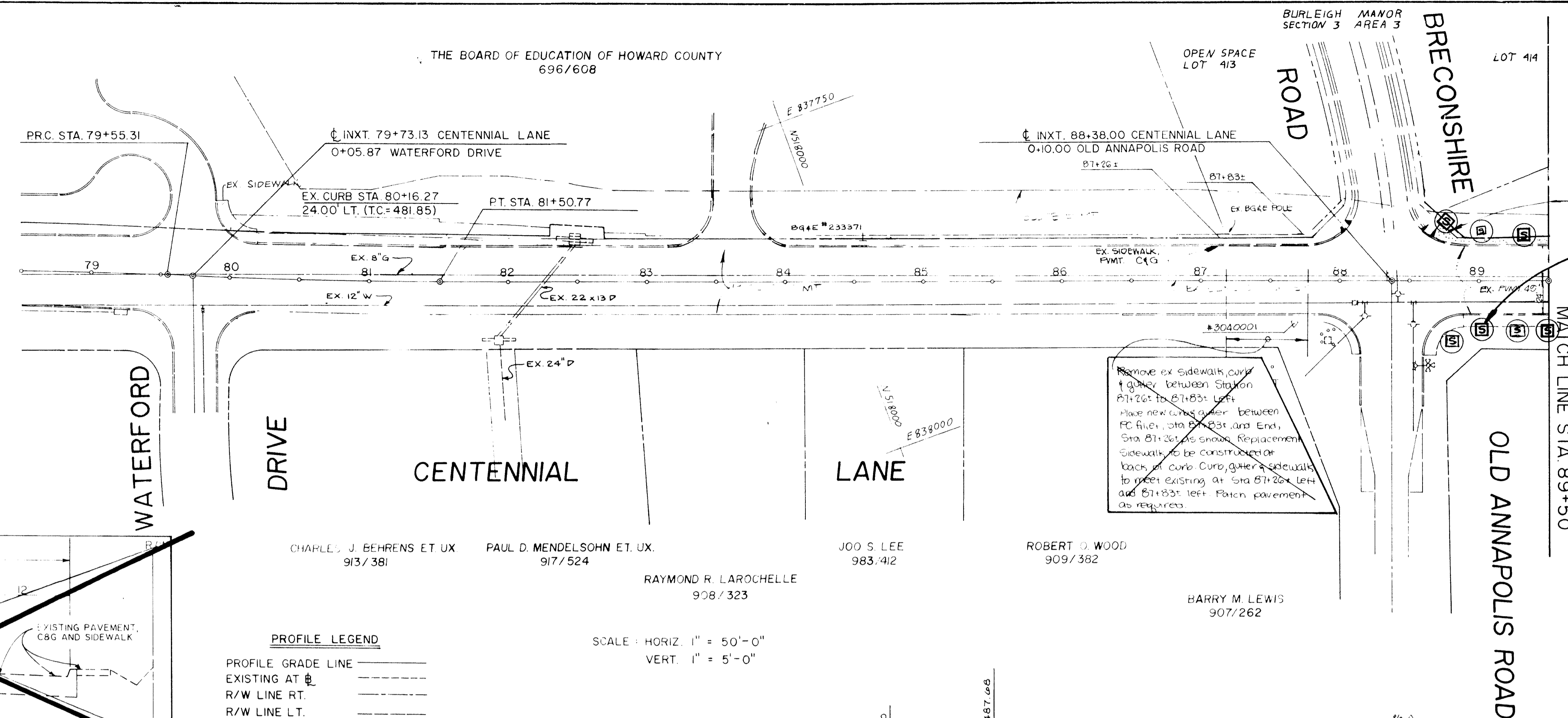
1196

BRUNING 44-1-32 691 50



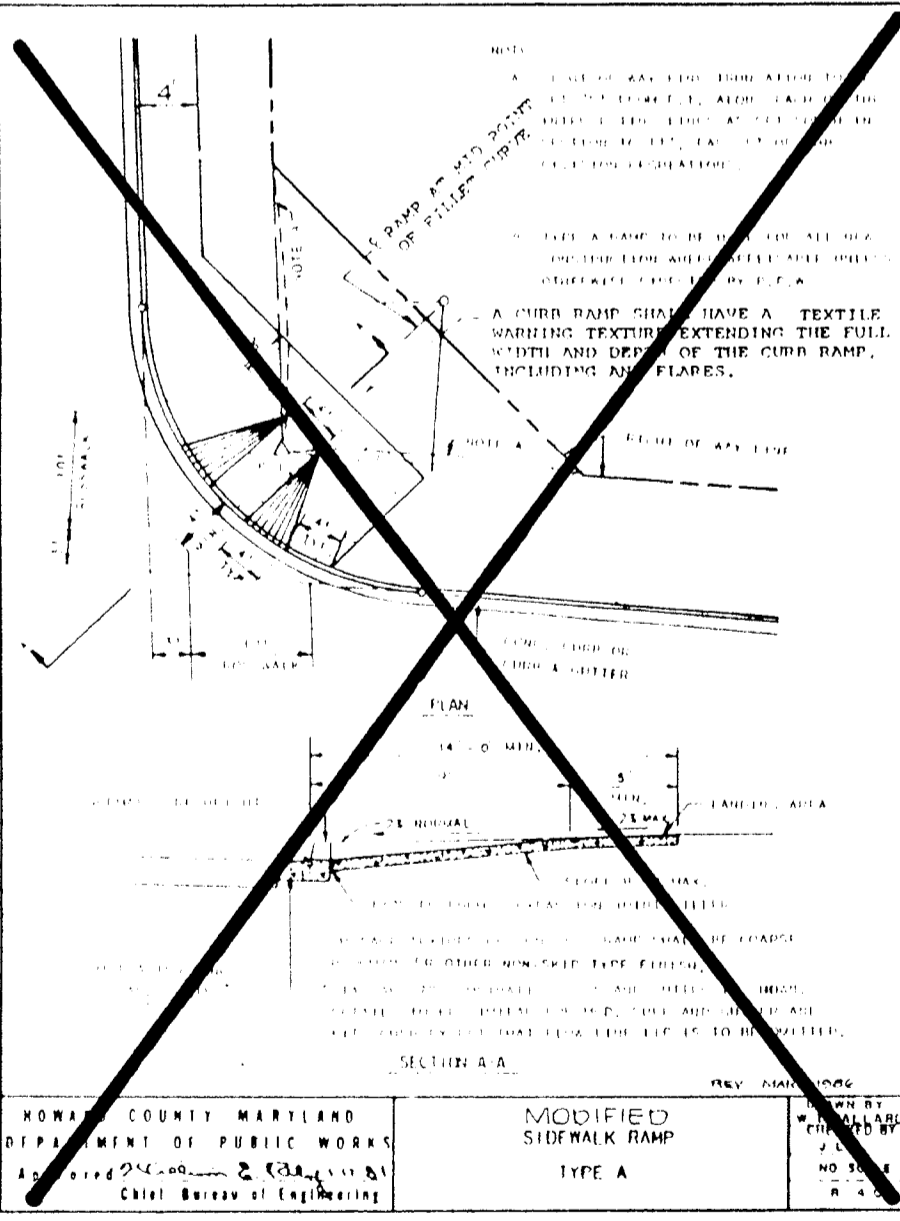
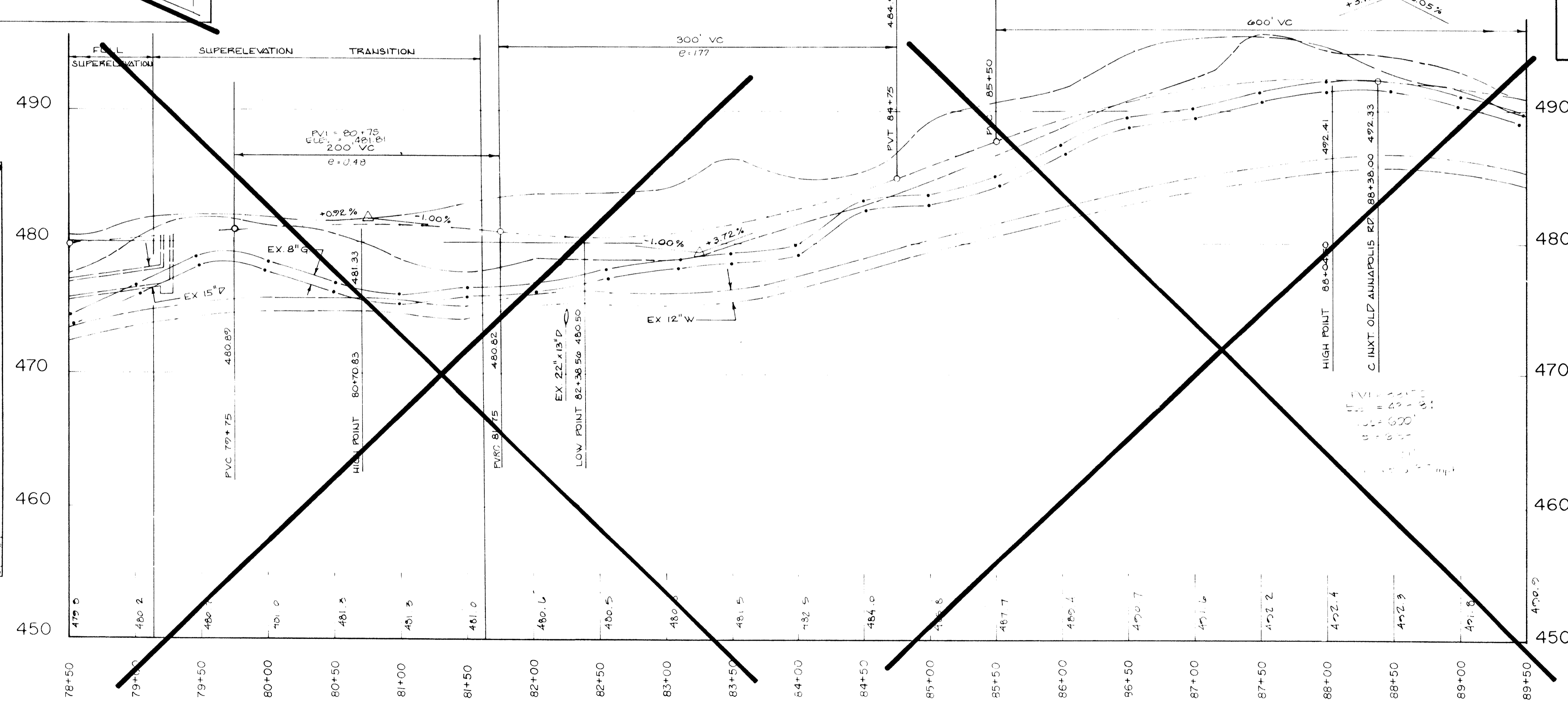
THE BOARD OF EDUCATION OF HOWARD COUNTY
696/608

BURLEIGH SECTION 3
MAYOR AREA 3



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

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



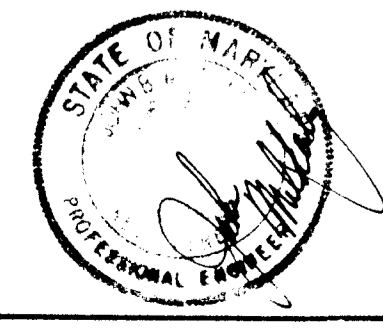
PLANT LIST

SYMBOL	QUANTITY	TYPE	SIZE
⊕	9	SARGENT CRABAPPLE (MALUS SPF)	2 1/2" CA. 4'-5" H.
○	113	AMERICAN HOLLY (ILEX OPACA)	2'-3" H.
⊙	140	LINDEN (TILIA AMERICANA)	2 1/2" CA. 12'-14" H.
⊗	60	CANADIAN HEMLOCK (TSUGA CANADENSIS)	2'-3" H.
⊖	9	KWANSAN CHERRY (PRUNUS SERRULATA)	4'-5" H. 2'-2 1/2" CA.
⊕	11	CHINABERRY (MELIA AZEDARACH)	4'-5" H. 2'-2 1/2" CA.
⊙	10	YOSHINO CHERRY (PRUNUS YEDOENSIS)	4'-5" H. 2'-2 1/2" CA.
⊗	14	AMER. BEAUTY CRABAPPLE (MALUS SPF)	4'-5" H. 2'-2 1/2" CA.
⊗	24	BRADFORD PEAR (PYRUS CALLERYANA)	4'-5" H. 2'-2 1/2" CA.
⊕	10	EASTERN REDBUD (CERCIS CANADENSIS)	5'-6" H. 2'-2 1/2" CA.
⊕	8	WHITE DOGWOOD (CORNUS FLORIDA)	4'-5" H. 2'-2 1/2" CA.

- 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 6' BEHIND FACE OF CURBS 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

MILDENBERG MOCHI & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 3310 North Ridge Road, Suite 235, Elkton City, Maryland 21043-3350
 (301) 461-0078 D.C. Metro (301) 621-5768



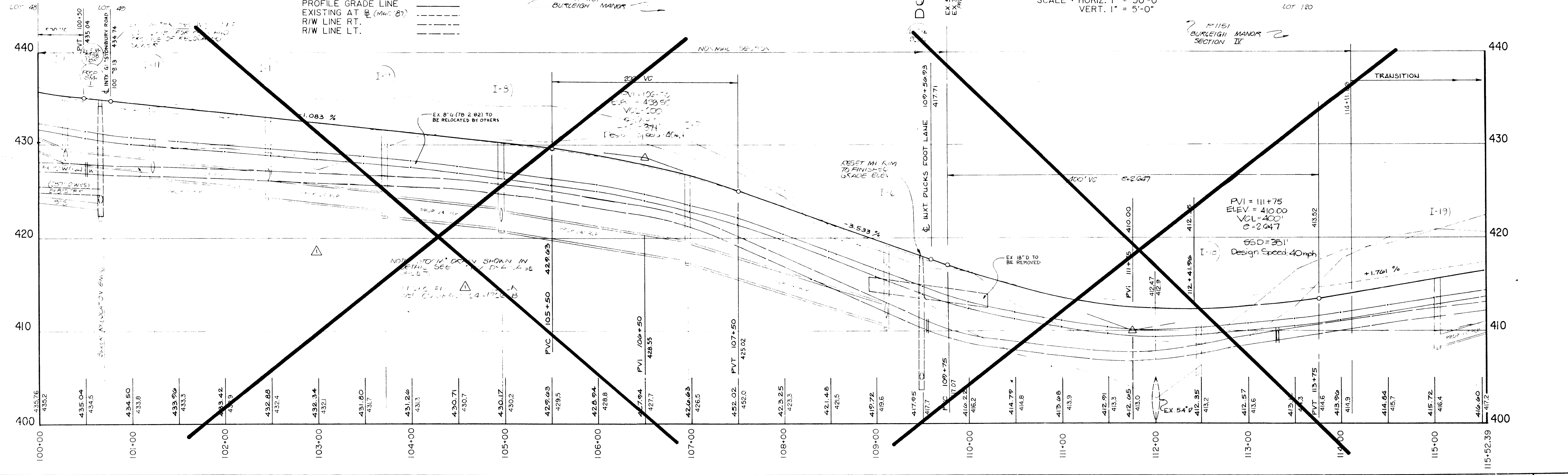
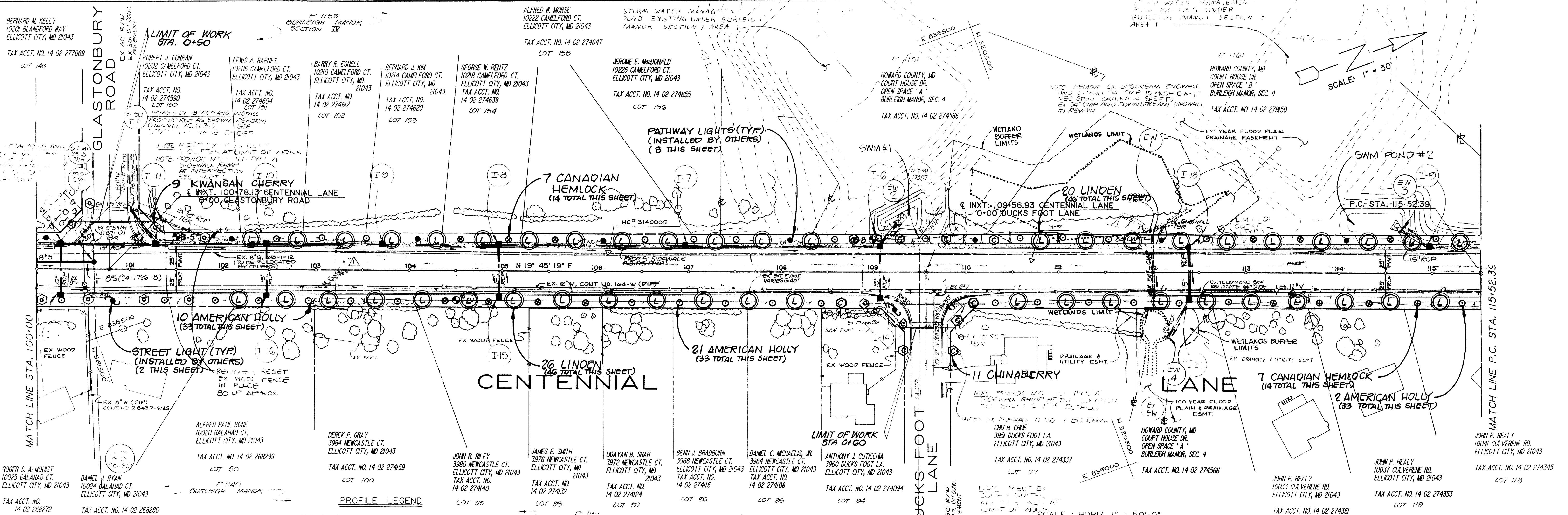
DES. STAFF	KAM	2	REVISE LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS	MAY 92
DRN:	KAM			
CHK:	JBM			
DATE:	5/92			
BY:	NO		REVISION	DATE

LANDSCAPE PLAN
 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 23 OF 27

1196



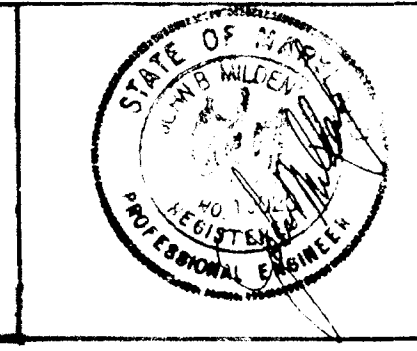
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

1196

12/2/91
12/14/91

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

3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(301) 461-0078 D.C. Metro (301) 821-5788

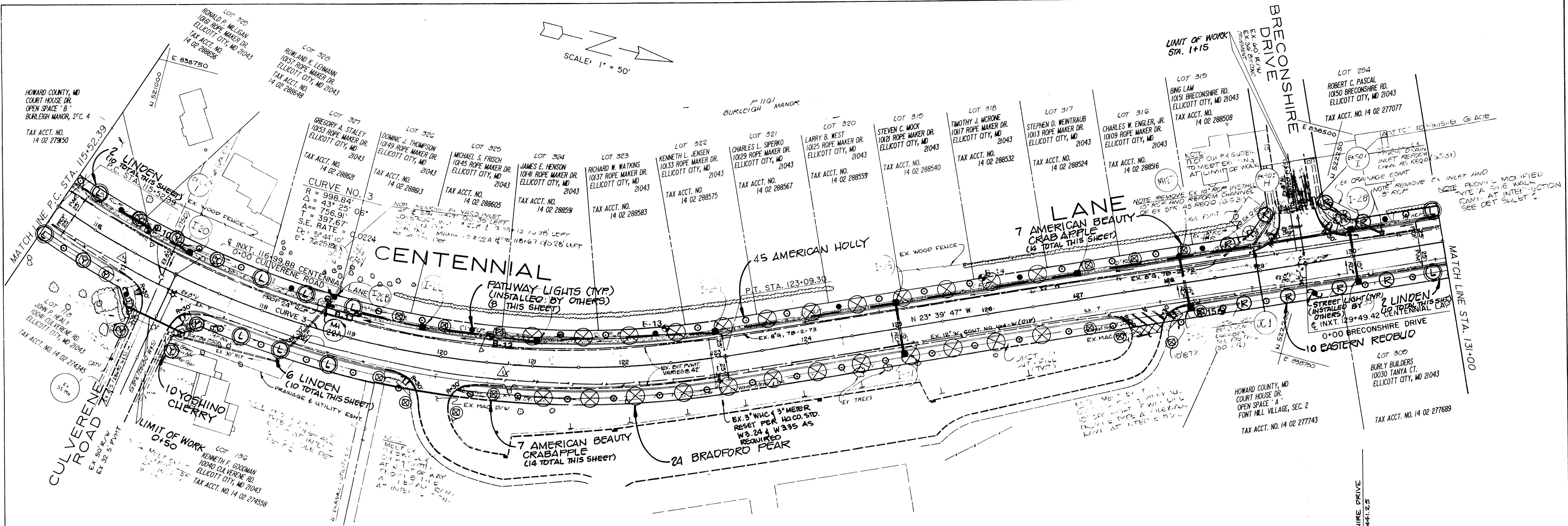


DES: STAFF	KAM	1	Eliminate waterman relocation this project	JAN 02
DRN: KAM	KAM	2	REVISE LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS	MAY 02
CHK: JBM				
DATE: 5/02	HY	NU	REVISION	DATE

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

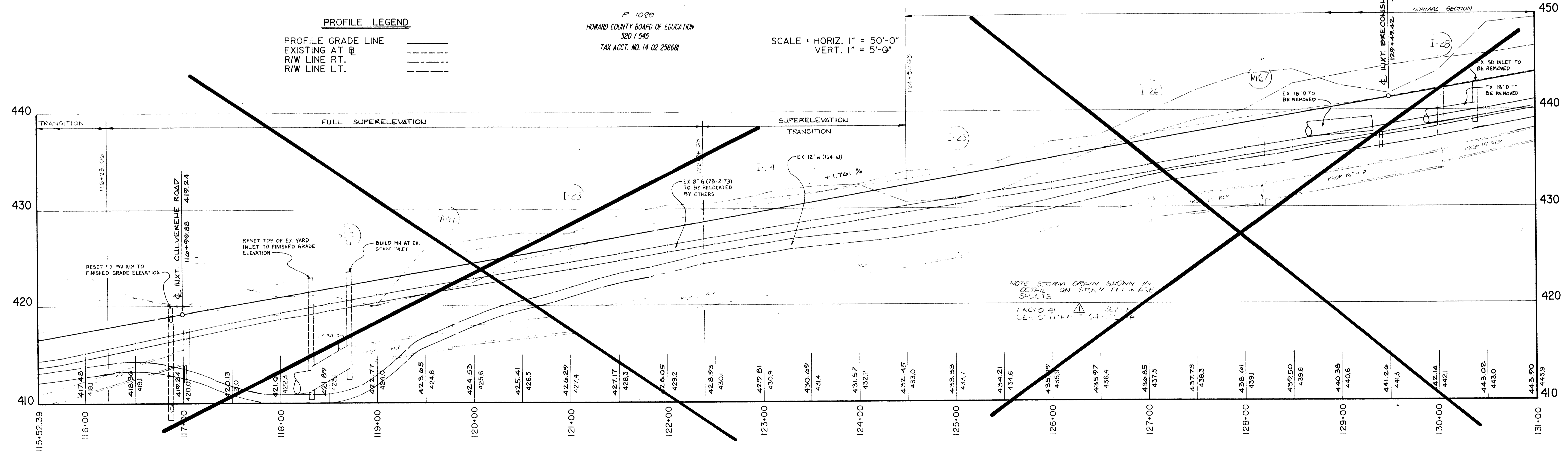
SCALE AS SHOWN
SHEET 25 OF 27



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

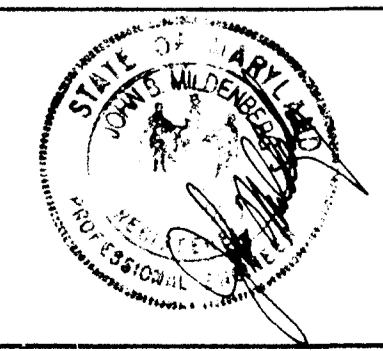
P 1020
 HOWARD COUNTY BOARD OF EDUCATION
 520 / 545
 TAX ACCT. NO. 14 02 25668

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



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

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	JAN02
DRN: KAM	KAM 2	REVISE LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS	MAY98
CHK: JEM			
DATE: 5/02	BY: NO	REVISION	DATE

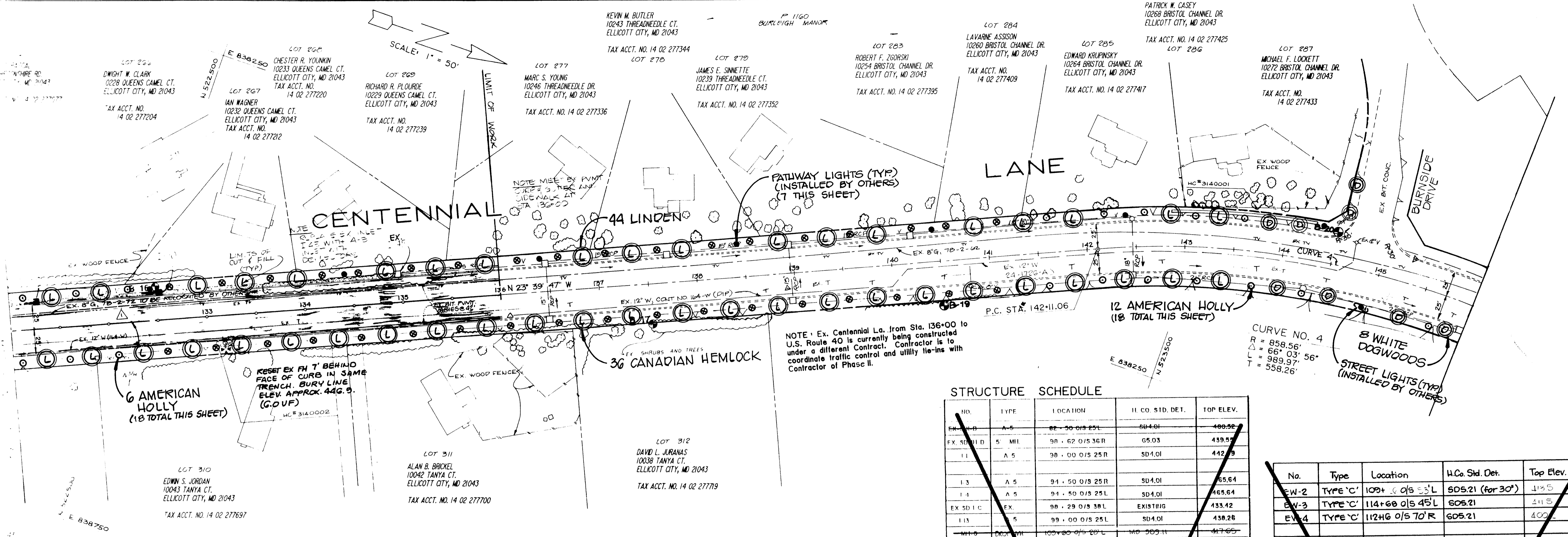
LANDSCAPE PLAN
 STA. 115+52.39 TO STA. 131+00
 CENTENNIAL LANE
 600' SCALE MAP NO. 24 BLOCK NO.

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 26 OF 27

1196

REVISIONS: 4/13/98 150 - 4 - Submitted for SC Review 1/28/03 0 - AS Submitted for SC Review 2/29/03

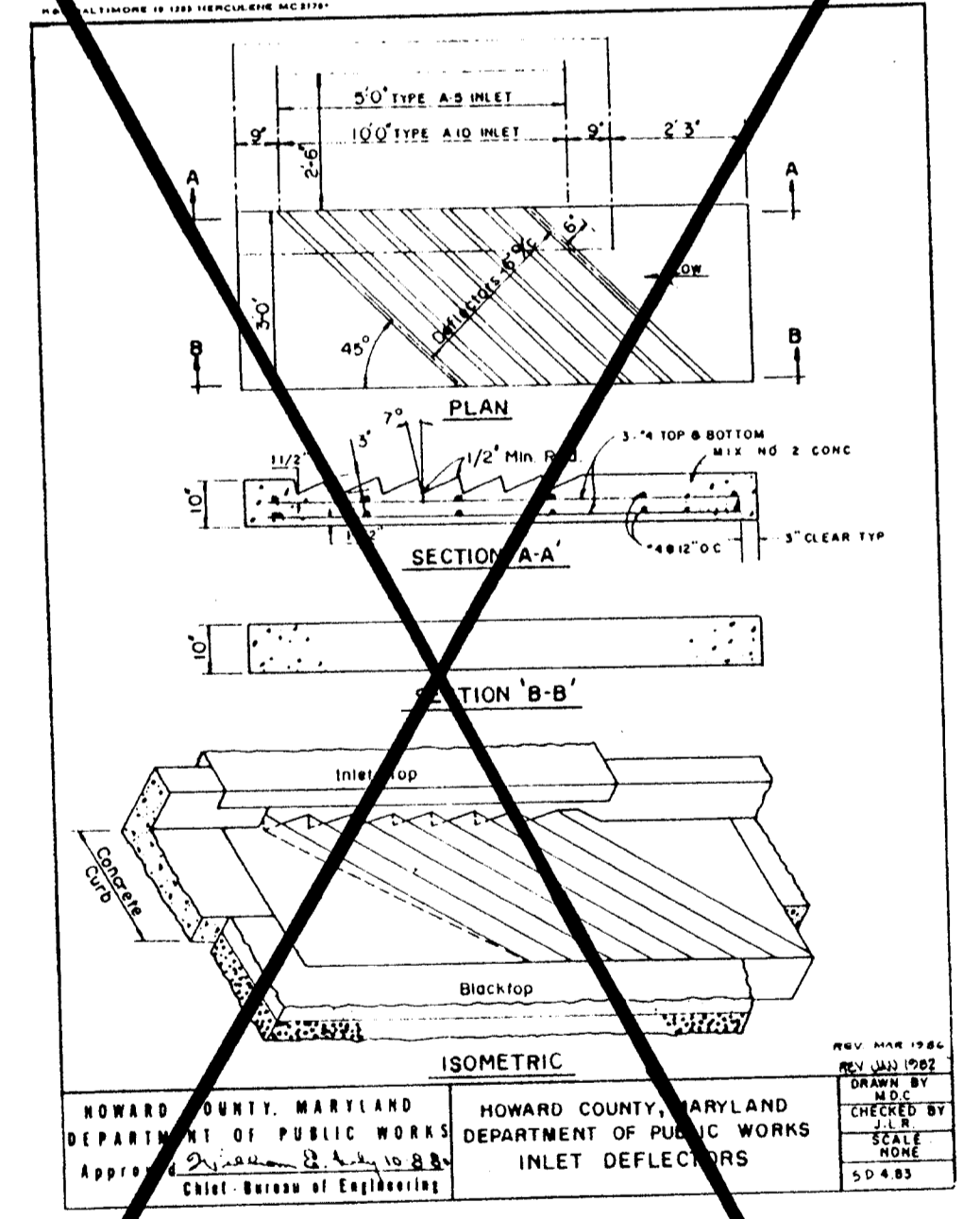


NOTE: Ex. Centennial La. from Sta. 136+00 to U.S. Route 40 is currently being constructed by a different Contractor. Contractor is to coordinate traffic control and utility tie-ins with Contractor of Phase II.

STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	II CO. SID. DET.	TOP ELEV.
EX. 1-0	A-5	82.50 0/5 25L	SD4.0I	400.52
EX. SDI 1-D	5' MH	90.62 0/5 36R	G5.03	439.55
1-1	A-5	90.00 0/5 25R	SD4.0I	442.99
1-3	A-5	91.50 0/5 25R	SD4.0I	455.64
1-4	A-5	94.50 0/5 25L	SD4.0I	465.64
EX. SDI 1-C	EX.	90.29 0/5 30L	EXISTING	433.42
1-13	5	99.00 0/5 25L	SD4.0I	430.26
MH-19	4' MH	105.00 0/5 20L	MD 305.11	417.65
1-6	A-5	109.10 0/5 25L	SD4.0I	419.39
1-7	A-5	107.00 0/5 25L	SD4.0I	426.67
1-8	A-5	105.00 0/5 25L	SD4.0I	430.21
1-9	A-5	103.75 0/5 25L	SD4.0I	431.57
1-10	A-5	102.50 0/5 25L	SD4.0I	432.92
EX. SDI 1-F	EXISTING	EXISTING	EXISTING	EXISTING
1-11	A-5	101.32 0/5 25L	SD4.0I	434.17
1-12	A-5	100.32 0/5 25L	SD4.0I	435.30
1-14	A-5	109.10 0/5 25R	SD4.0I	419.39
1-15	A-5	105.00 0/5 25R	SD4.0I	430.21
1-16	A-5	102.50 0/5 25R	SD4.0I	432.92
1-17	A-5	100.32 0/5 25R	SD4.0I	435.30
1-18	A-5	102.40 0/5 25L	SD4.0I	412.37
1-19	A-5	105.00 0/5 25L	SD4.0I	415.74
MH-22-A	4' MH	OVER EX. 30" RCP (10' x 6' 2 1/2")	G5.0I	422.27
1-21	A-5	102.40 0/5 25R	SD4.0I	412.37
EX. 1	TYPE A	102.00 0/5 41L	SD5.1I	408.40
EX. EW	EXISTING	102.00 0/5 41R	EXISTING	408.91
1-20	A-5	107.00 0/5 25L	SD4.0I	419.27
I-22-B	Y-1	OVER EX. 24" RCP (10' x 2' 0 1/2")	G04.14	117.40
1-22	A-5	105.75 0/5 25L	SD4.0I	424.11
1-23	A-5	101.00 0/5 25L	SD4.0I	426.31
1-24	A-5	123.00 0/5 25L	SD4.0I	429.25
1-25	DROP MH	125.00 0/5 25L	MD 303	433.55
1-26	A-5	127.00 0/5 25L	SD4.0I	436.87
MH 27	4' MH	128.15 0/5 28L	G5.0I	438.97
JC-1	JC	128.90 0/5 27L	SDU2	-----
EX. SDI 1-I	EXISTING	EXISTING	EXISTING	EXISTING
EX. SDI 1-J	EXISTING	EXISTING	EXISTING	EXISTING
1-28	A-5	130.00 0/5 25L	SD4.0I	442.00
1-31	A-5	125.00 0/5 25R	SD4.0I	433.66
1-32	A-5	128.15 0/5 25R	SD4.0I	438.00
1-33	A-5	130.00 0/5 25R	SD4.0I	442.00
1-29	A-5	131.25 0/5 25R	SD4.0I	444.50
1-3	A-5	132.50 0/5 25L	SD4.0I	446.40
1-45	EX. K to A-5	EXISTING	SD4.0I	446.60

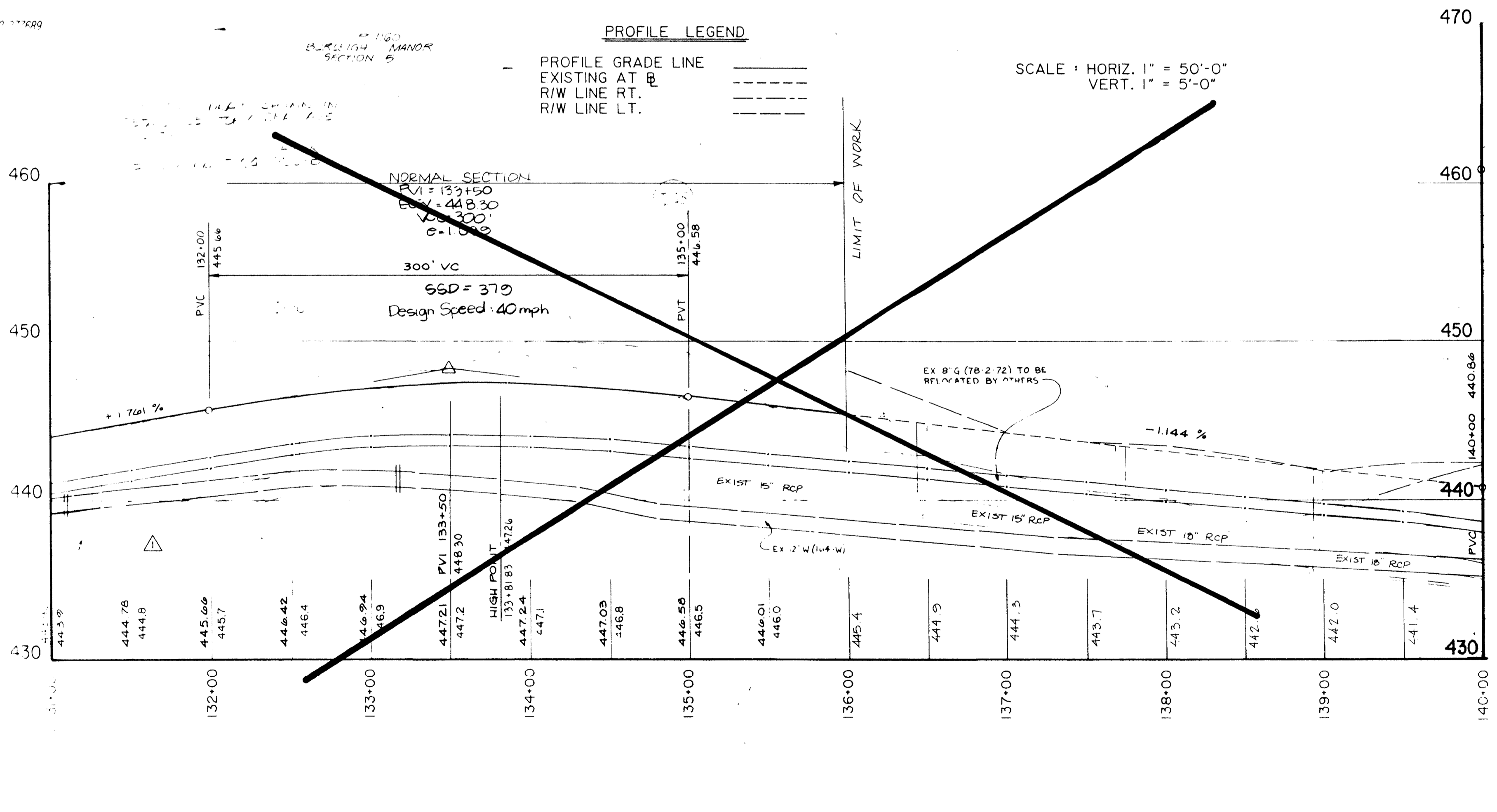
No.	Type	Location	II Co. Sid. Det.	Top Elev.
EW-2	TYPE 'C'	109+00 0/5 33'L	SD5.21 (for 30')	415.5
EW-3	TYPE 'C'	114+60 0/5 45'L	SD5.21	411.5
EW-4	TYPE 'C'	112+60 0/5 70'R	SD5.21	400.2



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
1/196
Elizabeth Anderson, Chief Bureau of Engineering
Carmelle W. Williams, Chief Bureau of Highways

MILDENBERG, MOCHI & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS
3310 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350
(301) 461-0079 D.C. Metro (301) 621-5763



DESIGNER	KAM	1	Eliminate watermain relocation.	JAN 02
DRN	KAM	2	REVISE LANDSCAPE PLAN PER COUNTY AGREEMENT WITH HOMEOWNERS	MAY 02
CHK	EVY			
DATE	5/02			
BY	NO		REVISION	DATE

LANDSCAPE 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