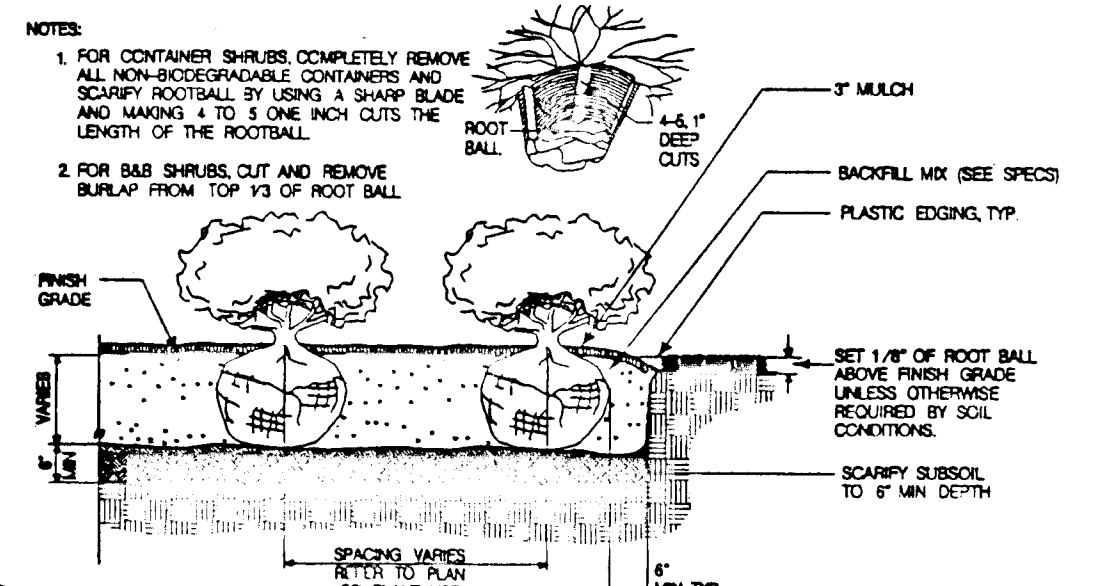


GENERAL NOTES

- The contractor shall review architectural/engineering plans to become thoroughly familiar with grading and surface utilities.
- The contractor shall insure that his/her work does not interrupt established or projected drainage patterns.
- During planting operations, excess water materials shall be promptly and frequently removed from the site.
- Call Miss Utility a minimum of three days prior to any excavation. The contractor is advised of the existence of underground utilities on the site. Their exact location shall be verified in the field with the owner or general contractor prior to the commencement of any digging operations. In the event they are uncovered, the contractor shall be held responsible for all damage to utilities and such damage shall not result in any additional expenses to the owner. Any damage of unreported lines shall not be the responsibility of the contractor.
- Maintain positive drainage out of planting beds at a minimum 2% slope. All grades, dimensions, and existing conditions shall be verified by the contractor on site before construction begins. Any discrepancies shall be brought to the attention of the landscape architect or owner.
- Every possible safeguard shall be taken to protect building surfaces, equipment, and furnishings. The contractor shall be responsible for any damage or injury to person or property which may occur as a result of his negligence in the execution of the work.
- In the event of variation between quantities shown on the plant list and the plans, the plans shall control. The contractor is responsible for verifying all plant quantities prior to the commencement of work. Seed quantity take-offs are the responsibility of the contractor. All discrepancies shall be reported to the landscape architect for clarification prior to bidding. The contractor shall furnish plant material in sizes as specified in plant list.
- Plants shall be located as shown on the drawings or as designated in the field. The contractor shall stake all material located on the site for review and/or adjustment by the landscape architect prior to planting. All locations are to be approved by the landscape architect before excavation.
- Plants shall conform to current "American Standards for Nursery Stock" by American Association of Nurserymen (AAN), particularly with regard to size, growth, size of ball, and density of branch structure. Plant material shall be tagged at the source by the landscape architect unless this requirement is specifically waived.
- All plants (B&B or container) shall be properly identified by weather-proof labels securely attached thereto before delivery to project site. Labels shall identify plants by name, species, and size. Labels shall not be removed until the final inspection by the landscape architect or agent in charge.
- Any material and/or work may be rejected by the landscape architect if it does not meet the requirements of the specifications. All rejected materials shall be removed from the site by the contractor.
- No substitutions shall be made without written consent of the owner or landscape architect.
- The landscape architect or owner shall have the right, at any stage of the operations, to reject any and all work and material which, in his opinion, does not meet the requirements of these plans and specifications.
- The contractor shall be wholly responsible for stability and conditions of all trees and shrubs and shall be legally liable for any damage caused by instability of any plant materials. Staking of all trees shall be done utilizing a method agreed upon by the landscape architect, as indicated on the documents.
- All proposed trees to be installed either entirely on or entirely out of planting beds. Planting bed lines are not to be obstructed. All shrubs and ground cover areas shall be planted in continuous prepared bed and top dressed with 3-inch shredded hardwood mulch. Mulch shall have been shredded within the last six months.
- Spade edge all planting beds.
- Maintenance shall begin after each plant has been installed and shall continue until 90 days after final acceptance by the architect or owner representative. Maintenance includes watering, pruning, weeding, fertilizing, mulching, replacement of sick or dead plants, and any other care necessary for the proper growth of the plant material. The contractor must be able to provide continued maintenance if requested by the owner.
- Upon completion of all landscaping, an acceptance of work shall be held. The contractor shall notify the landscape architect or owner for scheduling the inspection at least seven (7) days prior to the anticipated inspection date.
- All trees shall be guaranteed for 12 months from the date of acceptance. All shrubs and ground covers shall be guaranteed for 12 months from the date of acceptance. Replacement plants used shall be guaranteed for an additional 90 days (see note 20).
- The contractor is responsible for testing project soils. The contractor to provide a certified soil report to the owner. The contractor shall verify that the soils on site are acceptable for the proper growth of the proposed plant material. Should the contractor find poor soil conditions, the contractor shall be required to provide soil amendments as necessary. These amendments shall include, but not be limited to, fertilizers, lime and topsoil. Proper planting soils must be verified prior to planting of materials.
- The contractor shall dispose of stumps and major roots of all plants to be removed. Any depressions caused by removal operations shall be refilled with fertile, friable soil placed and compacted so as to reestablish proper grade for new planting and/or lawn areas.
- The contractor shall insure adequate vertical drainage in all plant beds.
- All disturbed areas of the site not planted with shrubs or ground cover shall be fine graded and seeded. See Sediment and Erosion Control Plans for details.



SHRUB BED PLANTING
NOT TO SCALE

C416CE01

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James A. Shan 12/23/96
DIRECTOR OF PUBLIC WORKS DATE

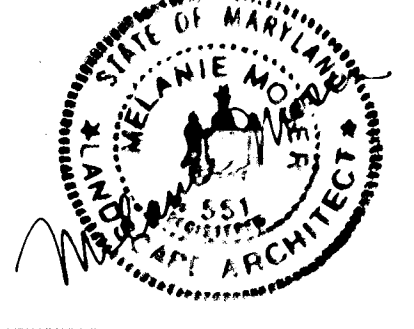
Robert J. Gorman 12/23/96
CHIEF, BUREAU OF ENGINEERING DATE

Robert J. Gorman 1-2-97
CHIEF, BUREAU OF HIGHWAYS DATE

Elizabeth Anderson Galen 12/23/96
CHIEF, DIVISION OF TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705



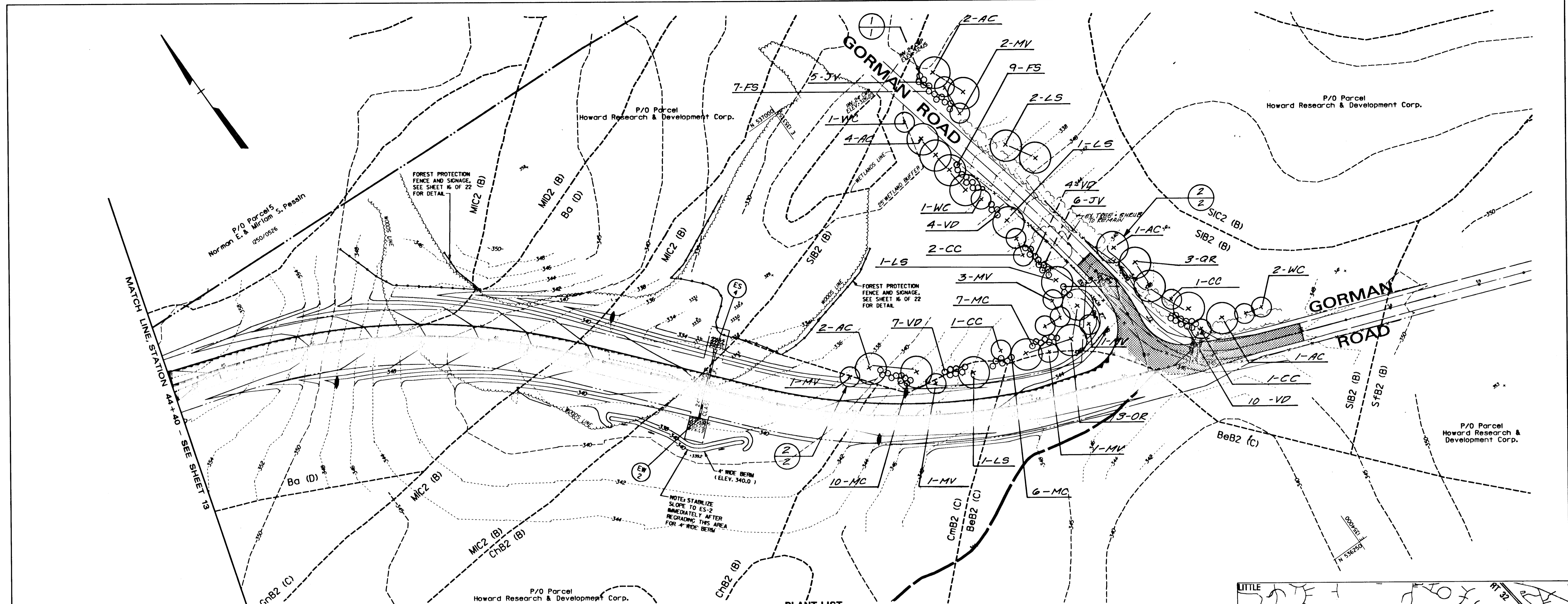
DESIGN BY:	MM
DRAWN BY:	ML
CHECKED BY:	MM
DATE:	8/19/96
BY NO.	
REVISION	
DATE	

GORMAN ROAD
Plant Restoration & Screening Plan
AUGUST 19, 1996

600 SCALE MAP NO. 47 BLOCK NO. 2

GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE
1" = 50'
SHEET
1 OF 2



P/O Parcel
Howard Research & Development Corp.
Norman E. & Miriam S. Peasin
1250/0526

P/O Parcel
Howard Research & Development Corp.

P/O Parcel
Howard Research & Development Corp.

MATCH LINE STATION 4+40.00 - SEE SHEET 12-1

FOREST PROTECTION FENCE AND SIGNAGE. SEE SHEET 16 OF 22 FOR DETAIL.

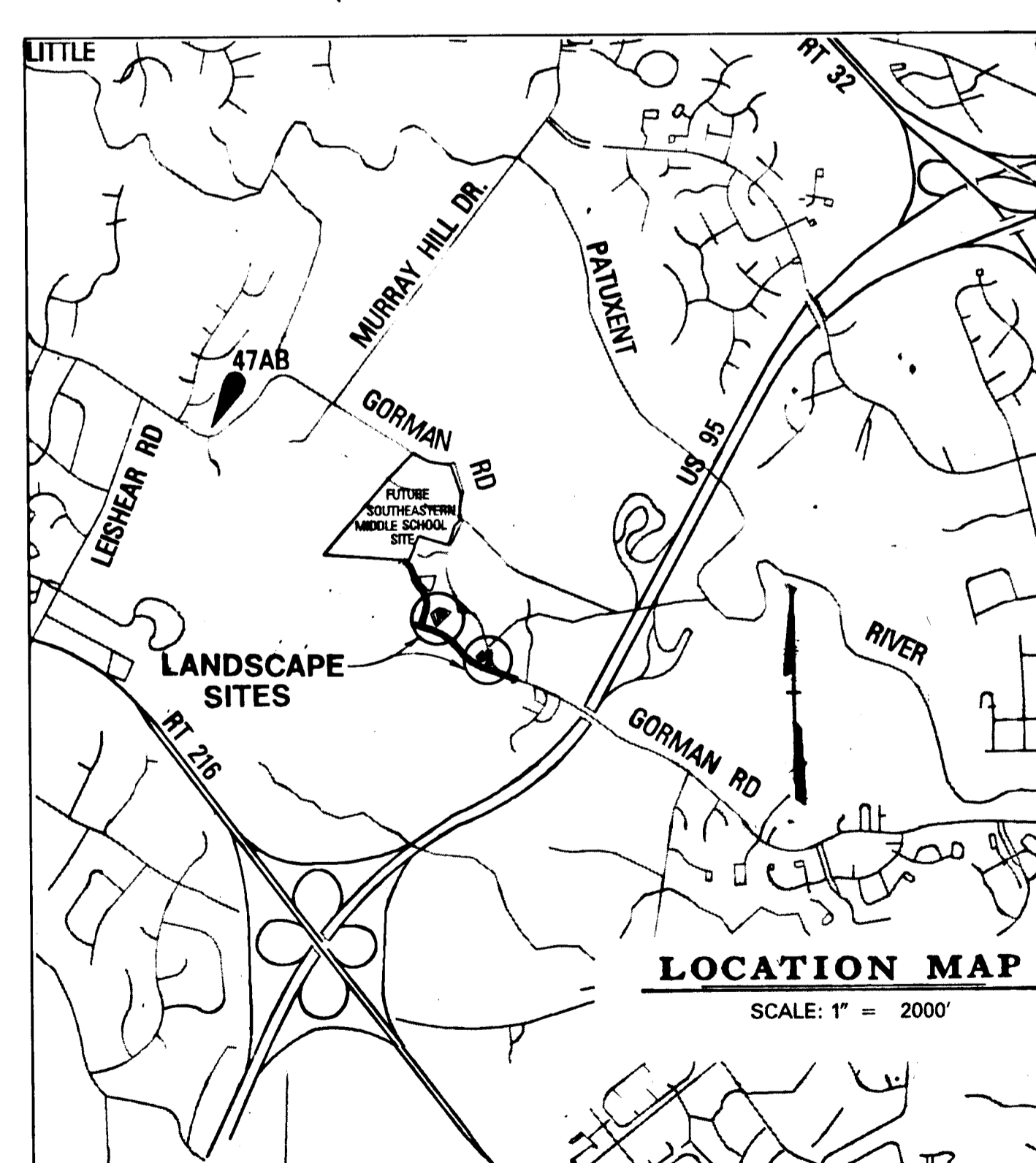
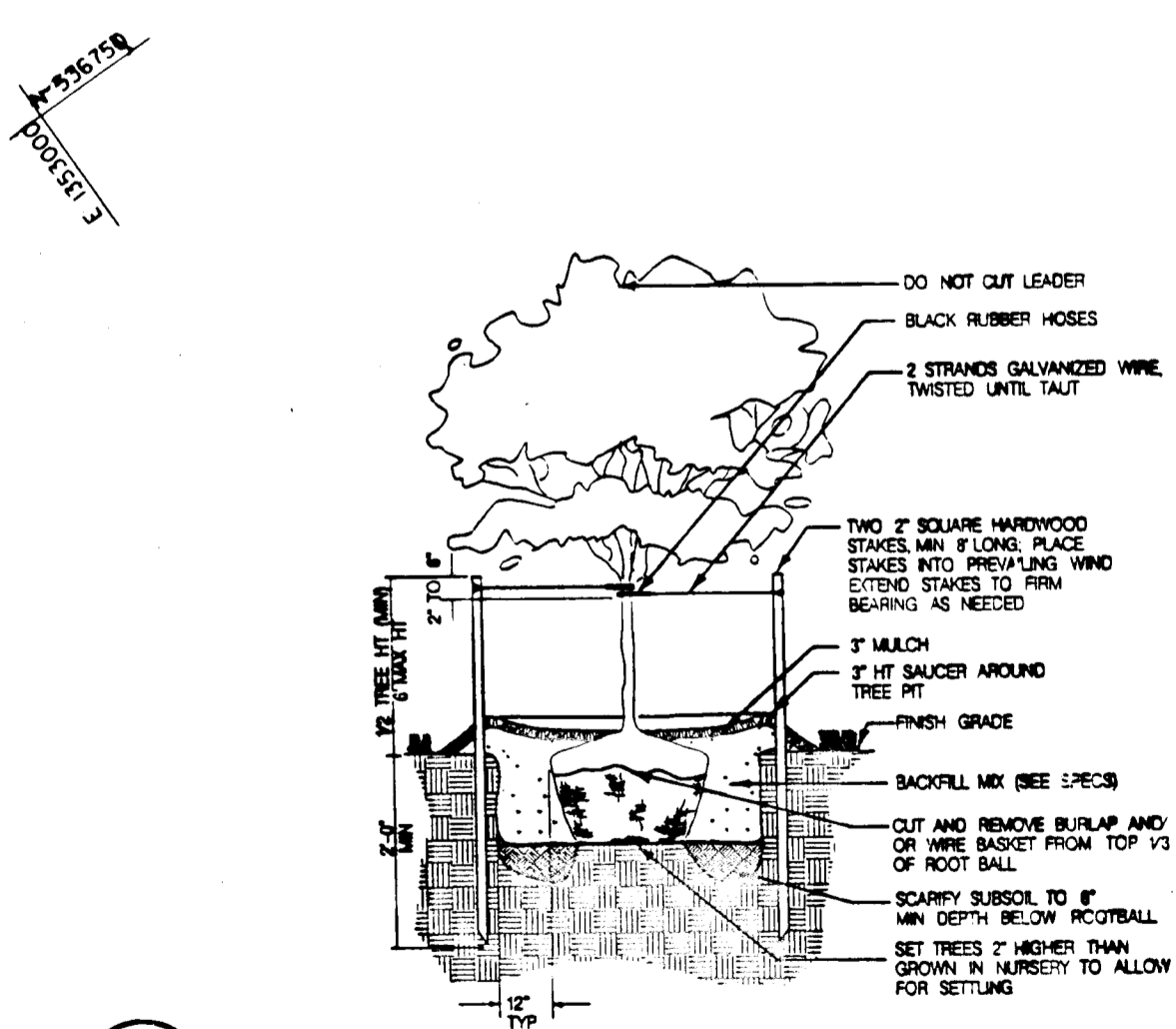
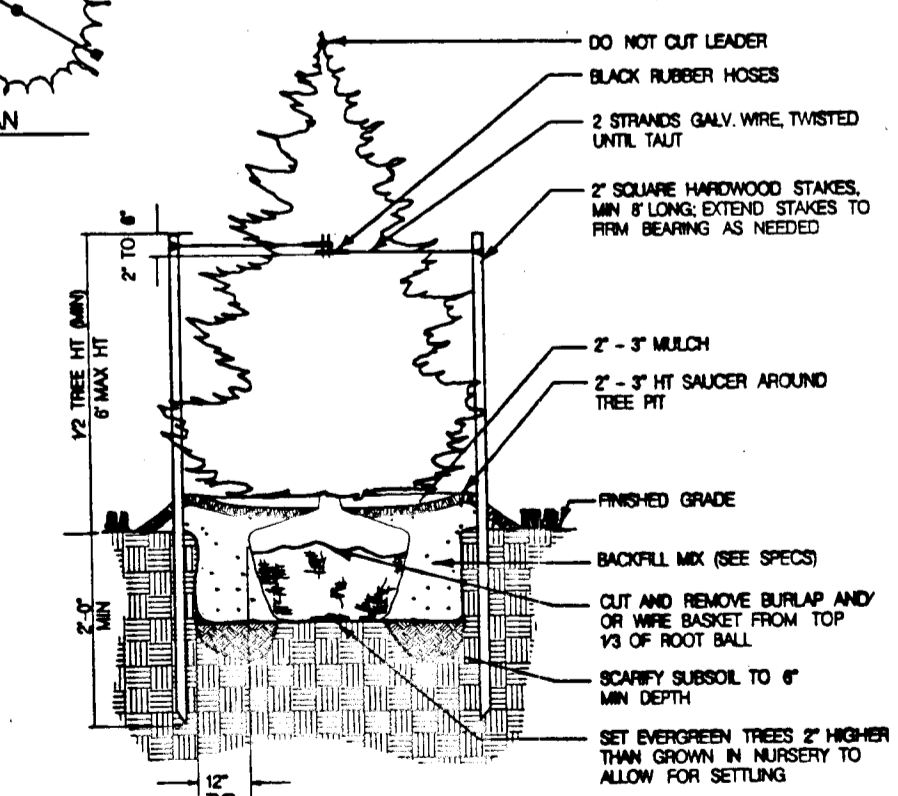
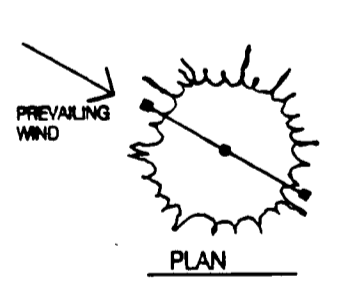
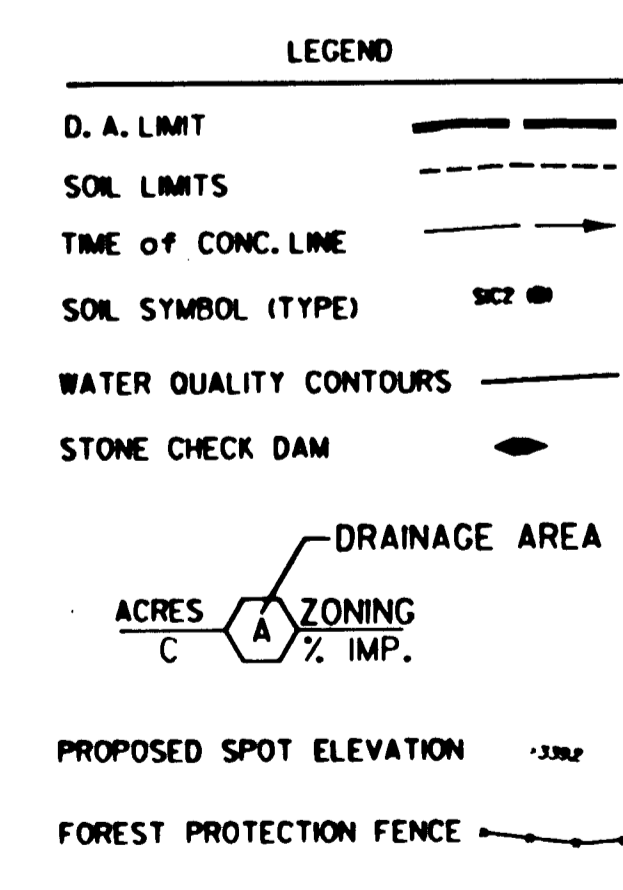
FOREST PROTECTION FENCE AND SIGNAGE. SEE SHEET 16 OF 22 FOR DETAIL.

NOTE: STABILIZE SLOPE TO E5-2 IMMEDIATELY AFTER REGRADING THIS AREA FOR 4' WIDE BERM.

P/O Parcel
Howard Research & Development Corp.
3245/2514

PLANT LIST

Key	Qty.	Botanical Name/Common Name	Size	Root	Comments
Shade Trees	AC	Acer rubrum Red Maple	2 1/2'-3' cal.	B&B	Full Head
	LS	Liquidambar styraciflua Sweet Gum	2 1/2'-3' cal.	B&B	Full Head
	OR	Quercus rubra Northern Red Oak	2 1/2'-3' cal.	B&B	Full Head
Flowering Trees	CC	Cercis canadensis Redbud	8'-10' Ht.	B&B	Single stem
	MV	Magnolia virginiana Star-of-Bethlehem Magnolia	8'-10' Ht.	B&B	Multi-stem
Evergreen Trees	PS1	Pinus strobus Eastern White Pine	8'-10' Ht.	B&B	15' O.C. unshaded
	PS2	Pinus strobus Eastern White Pine	10'-12' Ht.	B&B	15' O.C. unshaded
Shrubs	EA	Eunonymus alatus Winged Euonymus	30'-36" Ht.	B&B or Cont.	6' O.C.
	FS	Forsythia x intermedia 'Spectabilis' Border Forsythia	30'-36" Spd.	B&B or Cont.	6' O.C.
	JV	Juniperus virginiana Eastern Red Cedar	30'-36" Ht.	B&B or Cont.	6' O.C.
	MC	Myrica pennsylvanica Northern Bayberry	30'-36" Spd.	B&B or Cont.	6' O.C.
	VD	Viburnum dentatum Arrowwood Viburnum	30'-36" Ht.	B&B or Cont.	6' O.C.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

12/20/96
12/23/96

12/23/96

DMW
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A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705

DESIGN BY: MM
DRAWN BY: ML
CHECKED BY: MM
DATE: 8/19/96

BY	NO.	REVISION	DATE

GORMAN ROAD
Plant Restoration & Screening Plan
AUGUST 19, 1996

600 SCALE MAP NO. 4T BLOCK NO. 2

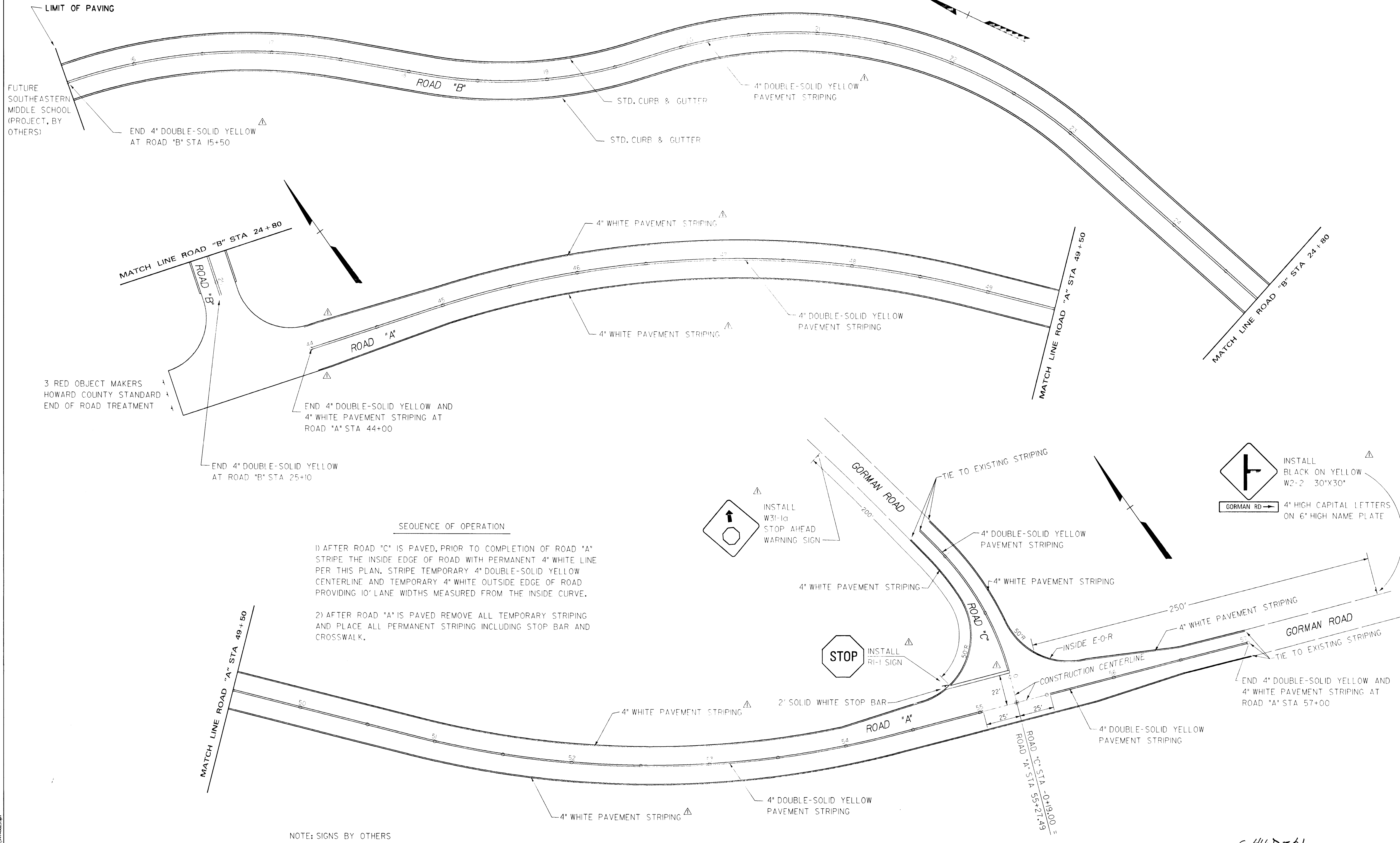
GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE
1" = 50'

SHEET
2 OF 2

Tue Aug 13 08:51:08 1996 61364000440013105

Tue Aug 13 08:51:08 1996 61364000440013105



SEQUENCE OF OPERATION

- 1) AFTER ROAD "C" IS PAVED, PRIOR TO COMPLETION OF ROAD "A" STRIPE THE INSIDE EDGE OF ROAD WITH PERMANENT 4" WHITE LINE PER THIS PLAN. STRIPE TEMPORARY 4" DOUBLE-SOLID YELLOW CENTERLINE AND TEMPORARY 4" WHITE OUTSIDE EDGE OF ROAD PROVIDING 10' LANE WIDTHS MEASURED FROM THE INSIDE CURVE.
- 2) AFTER ROAD "A" IS PAVED REMOVE ALL TEMPORARY STRIPING AND PLACE ALL PERMANENT STRIPING INCLUDING STOP BAR AND CROSSWALK.

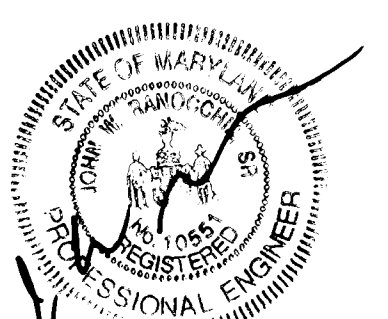
NOTE: SIGNS BY OTHERS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 7/30/96
DIRECTOR OF PUBLIC WORKS
[Signature] 7-26-96
CHIEF, BUREAU OF HIGHWAYS

[Signature] 7/25/96
CHIEF, BUREAU OF TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals
200 East Pennsylvania Avenue
Towson, Maryland 21286
410.296.3333
Fax 296.4705



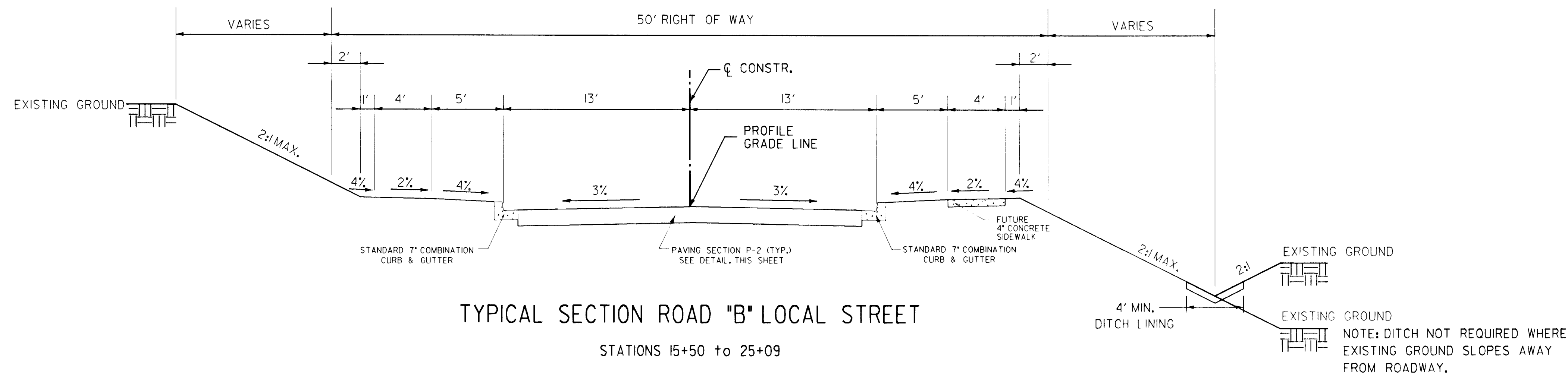
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DRAWN BY:	JWS				
CHECKED BY:	JWR				
DATE:	July 1, 1996	DMW	PEP	HC	CO
BY:	NO.	REVISION	DATE	600 SCALE MAP NO. 47 BLOCK NO. 2	

PAVEMENT STRIPING PLAN

GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

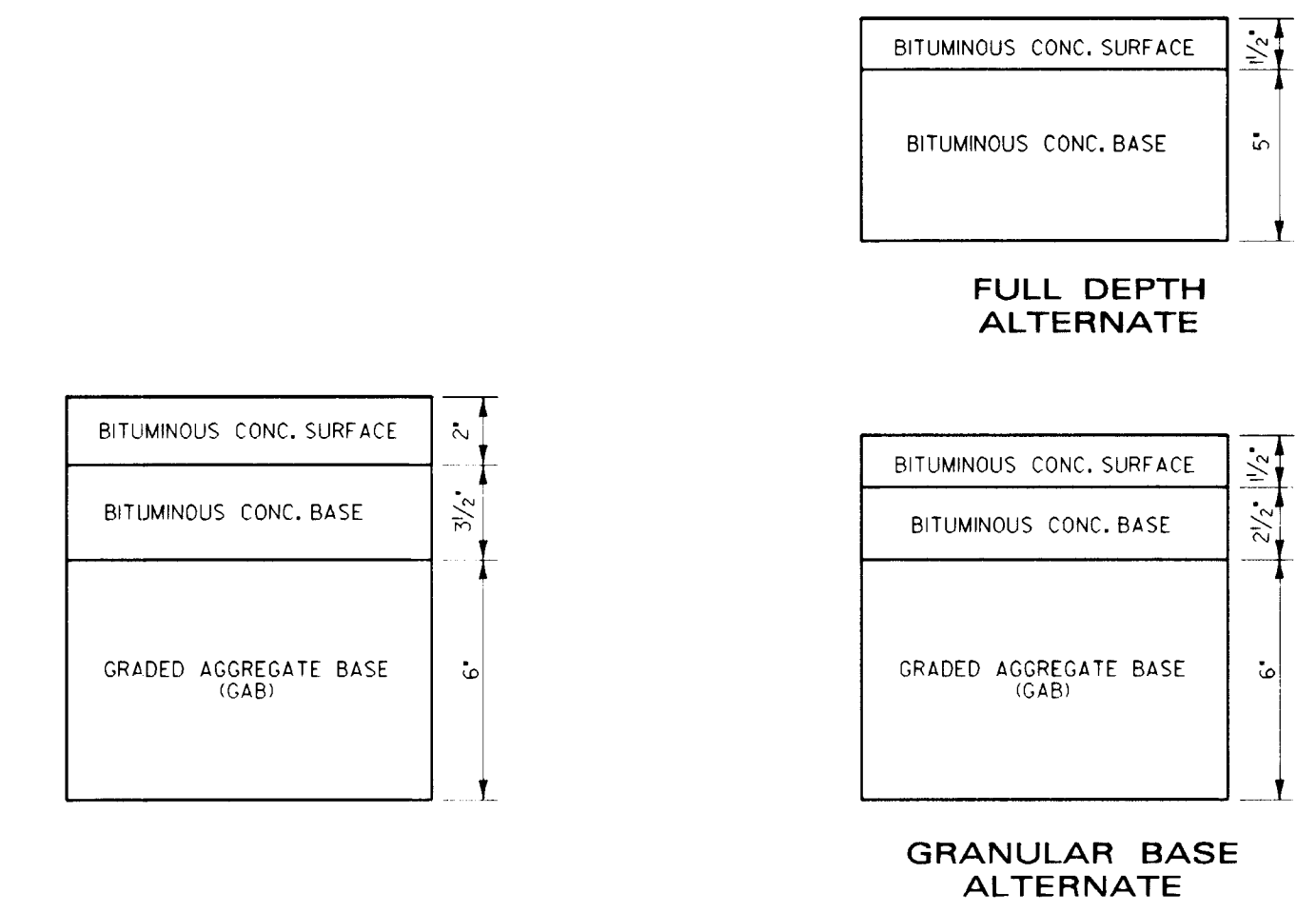
SCALE
1" = 30'
SHEET
1 OF 1

C 4/6 D E P 1



TYPICAL SECTION ROAD "B" LOCAL STREET

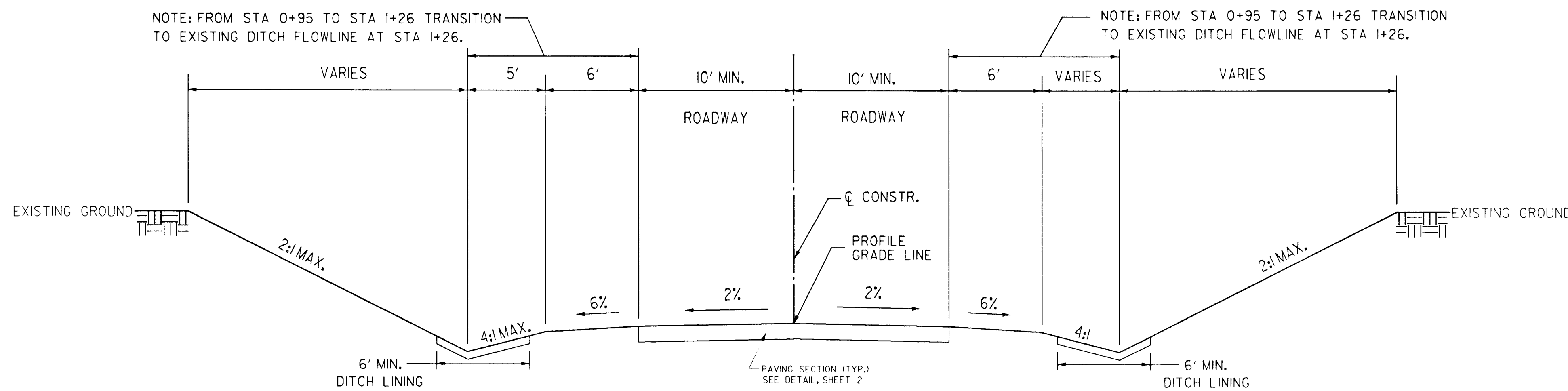
STATIONS 15+50 to 25+09



ROAD "B" PAVING SECTION
NOT TO SCALE

***OPTIONAL PAVING SECTION P-2 ROAD "B"**
NOT TO SCALE

* USE OF OPTIONAL PAVING SECTION REQUIRES THAT ONE (1) FOOT OF MATERIALS BELOW SUBGRADE THROUGHOUT THE ROADWAY ALIGNMENT HAVE A MINIMUM CBR VALUE OF SEVEN (7). THIS MAY ENTAIL UNDERCUTTING OF IN-PLACE SUBSOILS IN CUT AREAS ALONG VARIOUS PORTIONS OF THE PROPOSED ROADWAY AND REPLACEMENT OF THE UNDERCUT SOILS WITH APPROVED BORROW CONFORMING TO HOWARD COUNTY SPECIFICATIONS AND HAVING A MINIMUM CBR VALUE OF SEVEN (7).



TYPICAL SECTION ROAD "C" ROAD

STATIONS 0+50 to 0+95

NOTE: SEE ROADWAY PLAN, SHEET 5, FOR PAVING STAKEOUT TABLES.

Mon Jul 11 15:06:36 1996 d:\s\road\440023\440023.dwg

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James P. Swan 7/3/96
DIRECTOR OF PUBLIC WORKS DATE

Charles M. Daniels 7/3/96
CHIEF, BUREAU OF HIGHWAYS DATE

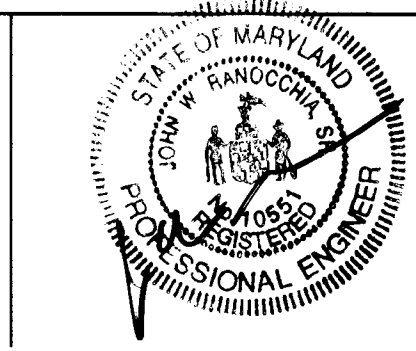
Paul S. Egan 7/3/96
SUPV. OF ENGINEERING DATE

Steve Shaver 7/3/96
CHIEF, DIVISION OF TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	JWS				
DRAWN BY:	JWS				
CHECKED BY:	JWR				
DATE:	FEB. 5, 1996	JWS	I	ROAD "C" REDESIGN	7/01/96
BY:	NO.			REVISION	DATE

TYPICAL SECTION

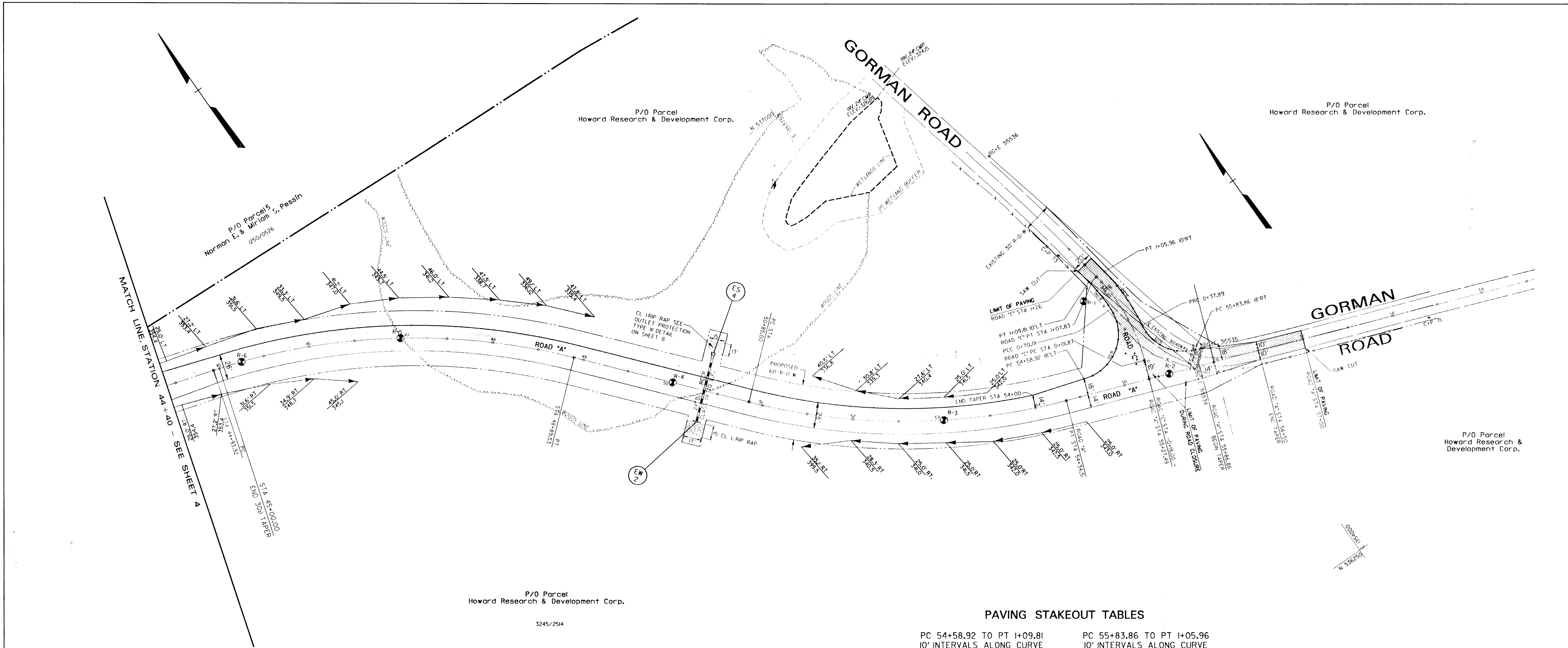
600 SCALE MAP NO. 47 BLOCK NO. 2

C 416 E 2 3

GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE
1" = 5'

SHEET
3 OF 22



ROAD "A" DATA TABLE

POINT	C STATION	BEARING \ CURVE DATA	DISTANCE	COORDINATES	
				NORTHING	EASTING
PI	40+00.00			537263.4223	1352619.1036
		S 73°22'39" E	350.0000'		
PI	43+50.00			537163.3001	1352954.4776
		S 73°22'39" E	143.3222'		
PC	44+93.32			537122.3008	1353091.8102
		Δ = 032°25'48"			
		D = 8.1851'			
		R = 700.000'			
		T = 203.567'			
		L = 396.206'			
		E = 29.00'			
PT	48+89.53			536910.3120	1353420.2815
		S 40°56'52" E	195.4725'		
PC	50+85.00			536762.6700	1353548.3882
		Δ = 028°36'28"			
		D = 8.1851'			
		R = 700.000'			
		T = 178.478'			
		L = 349.510'			
		E = 22.39'			
PT	54+34.51			536565.5213	1353832.5938
		S 69°33'20" E	50.4899'		
PI	54+85.00			536547.8852	1353879.9034
		S 69°33'20" E	668.8768'		
PI	61+53.88			536314.2469	1354506.6484

ROAD "C" DATA TABLE

POINT	C STATION	BEARING \ CURVE DATA	DISTANCE	COORDINATES	
				NORTHING	EASTING
PI	-0+19.00			536533.0435	1353919.1171
		N 20°26'40.1" E	20.8663'		
PC	0+01.87			536552.5954	1353927.0057
		Δ = 030°21'32.4"			
		D = 28.6479'			
		R = 200.000'			
		T = 54.262'			
		L = 105.973'			
		E = 7.23'			
PT	+07.83			536656.8911	1353936.6166
		N 09°54'52.3" W	18.170'		
MEET EX. C	+26.00			536674.7810	1353933.4900

PAVING STAKEOUT TABLES

PC 54+58.92 TO PT +09.81
10' INTERVALS ALONG CURVE

ROAD STATION	OFFSET	PAVEMENT ELEVATION
ROAD "A"		
54+58.92	-18.00'	344.67'
54+68.85	-19.00'	344.75'
ROAD "C"		
0+03.30	-49.11'	344.80'
0+09.21	-40.35'	344.80'
0+16.54	-32.26'	344.90'
0+24.96	-25.34'	345.07'
0+34.18	-19.62'	345.28'
0+43.99	-15.22'	345.47'
0+54.21	-12.20'	345.63'
0+64.67	-10.62'	345.77'
0+75.21	-10.23'	345.87'
0+85.75	-10.23'	346.00'
0+96.29	-10.12'	345.90'
+09.81	-10.00'	345.72'

PC 55+83.86 TO PT +05.96
10' INTERVALS ALONG CURVE

ROAD STATION	OFFSET	PAVEMENT ELEVATION
ROAD "A"		
55+83.86	-18.00'	346.68'
55+73.93	-19.00'	345.80'
ROAD "C"		
0+02.78	36.90'	345.64'
0+07.01'	28.21'	345.45'
0+13.01	20.85'	345.30'
0+20.59	15.24'	345.20'
0+29.36	11.77'	345.35'
0+38.75	10.66'	345.50'
0+48.25	10.57'	345.60'
0+57.75	10.48'	345.70'
0+67.25	10.39'	345.80'
0+76.76	10.30'	345.90'
0+86.27	10.20'	346.00'
0+95.79	10.11'	345.90'
+05.96	10.00'	345.78'

EDGE OF ROAD "C" PAVING
DURING ROAD CLOSURE

ROAD STATION	OFFSET	PAVEMENT ELEVATION
ROAD "C"		
0+15.35	-17.45'	345.16'
ROAD "A"		
55+18.12'	-19.00'	345.24'
55+38.00	-0'	345.82'
55+79.00	14.00'	345.95'

LEGEND

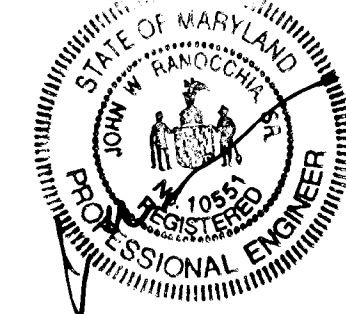
- BORING LOCATION AND LABEL
- RIP RAP PROTECTION
- DITCH OFFSET & ELEVATION
- DITCH FLOW DIRECTION
- TEMPORARY ROAD CONTOURS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Sam J. Linn 7/3/96
DIRECTOR OF PUBLIC WORKS
Andrew M. Donolo 7-3-96
CHIEF, BUREAU OF HIGHWAYS

Paul J. Lepson 7/3/96
CHIEF, BUREAU OF ENGINEERING
Steve Shuman 7/3/96
CHIEF, DIVISION OF TRANSPORTATION
PROJECTS AND WATERSHED MANAGEMENT

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & Environmental Professionals 410 296 3333
Fax 296 4705



DESIGN BY: JWS
DRAWN BY: JWS
CHECKED BY: JWR
DATE: FEB. 5, 1996

JWS 1 ROAD "C" REDESIGN 7/01/96
BY NO. REVISION DATE

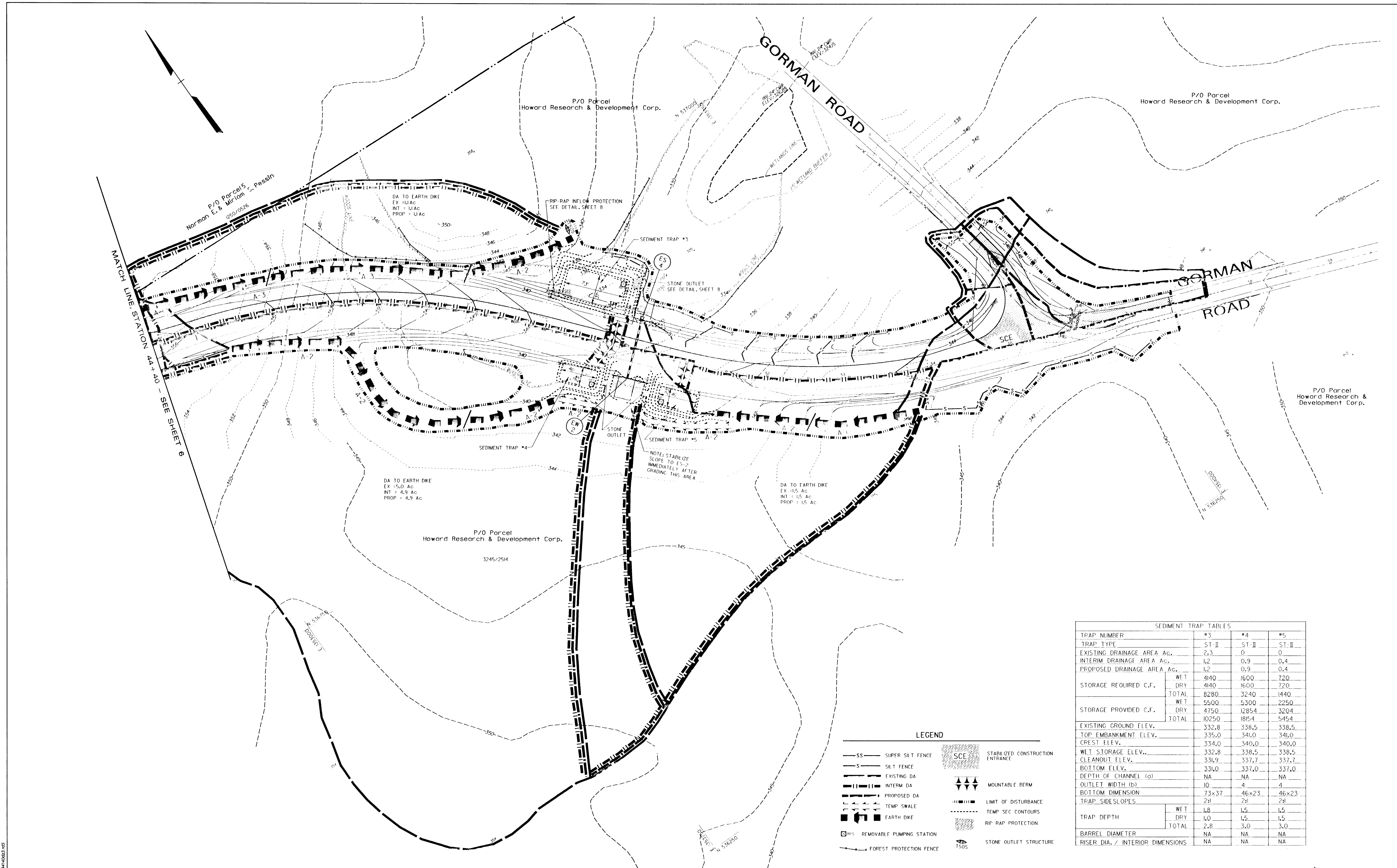
ROADWAY PLAN

600 SCALE MAP NO. 47 BLOCK NO. 2

GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE
1" = 50'
SHEET
5 OF 22

5



SEDIMENT TRAP TABLES			
TRAP NUMBER	#3	#4	#5
TRAP TYPE	ST-II	ST-II	ST-II
EXISTING DRAINAGE AREA AC.	2.3	0	0
INTERIM DRAINAGE AREA AC.	1.2	0.9	0.4
PROPOSED DRAINAGE AREA AC.	1.2	0.9	0.4
STORAGE REQUIRED C.F.	WE T 4140 DRY 4140	1600 1600	720 720
TOTAL	8280	3240	1440
STORAGE PROVIDED C.F.	WE T 5500 DRY 4750	5300 1285.4	2250 320.4
TOTAL	10250	1815.4	545.4
EXISTING GROUND ELEV.	332.8	338.5	338.5
TOP EMBANKMENT ELEV.	335.0	341.0	341.0
CREST ELEV.	334.0	340.0	340.0
WET STORAGE ELEV.	332.8	338.5	338.5
CLEANOUT ELEV.	331.9	337.7	337.7
BOTTOM ELEV.	331.0	337.0	337.0
DEPTH OF CHANNEL (a)	NA	NA	NA
OUTLET WIDTH (b)	10	4	4
BOTTOM DIMENSION	73x37	46x23	46x23
TRAP SIDESLOPES	2:1	2:1	2:1
TRAP DEPTH	WE T 1.8 DRY 1.0	1.5 1.5	1.5 1.5
TOTAL	2.8	3.0	3.0
BARREL DIAMETER	NA	NA	NA
RISER DIA. / INTERIOR DIMENSIONS	NA	NA	NA

- LEGEND**
- SS SUPER SILT FENCE
 - S SILT FENCE
 - EXISTING DA
 - INTERIM DA
 - PROPOSED DA
 - TEMP SWALE
 - EARTH DIKE
 - REMOVABLE PUMPING STATION
 - FOREST PROTECTION FENCE
 - SCE STABILIZED CONSTRUCTION ENTRANCE
 - MOUNTABLE BERM
 - LIMIT OF DISTURBANCE
 - TEMP SEC CONTOURS
 - RIP RAP PROTECTION
 - STONE OUTLET STRUCTURE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James G. Lewis 7/3/96
DIRECTOR, PUBLIC WORKS
DATE

Paul J. Sepon 7/3/96
CHIEF, BUREAU OF ENGINEERING
DATE

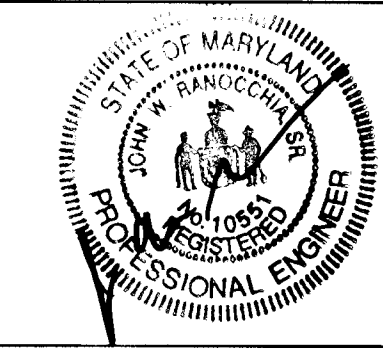
Andrew M. Conner 7-3-96
CHIEF, BUREAU OF HIGHWAYS
DATE

Steve Stone 7/3/96
CHIEF, DIVISION OF TRANSPORTATION
PROJECTS AND WATERSHED MANAGEMENT
DATE

DMW
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A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY: JWS:RLH

DRAWN BY: JWS:PSN

CHECKED BY: JWR

DATE: FEB. 5, 1996

BY	NO.	REVISION	DATE
JWS	1	ROAD 'C' REDESIGN	7/01/96

SEDIMENT AND EROSION CONTROL PLAN

600 SCALE MAP NO. 47 BLOCK NO. 2

GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE
1" = 50'

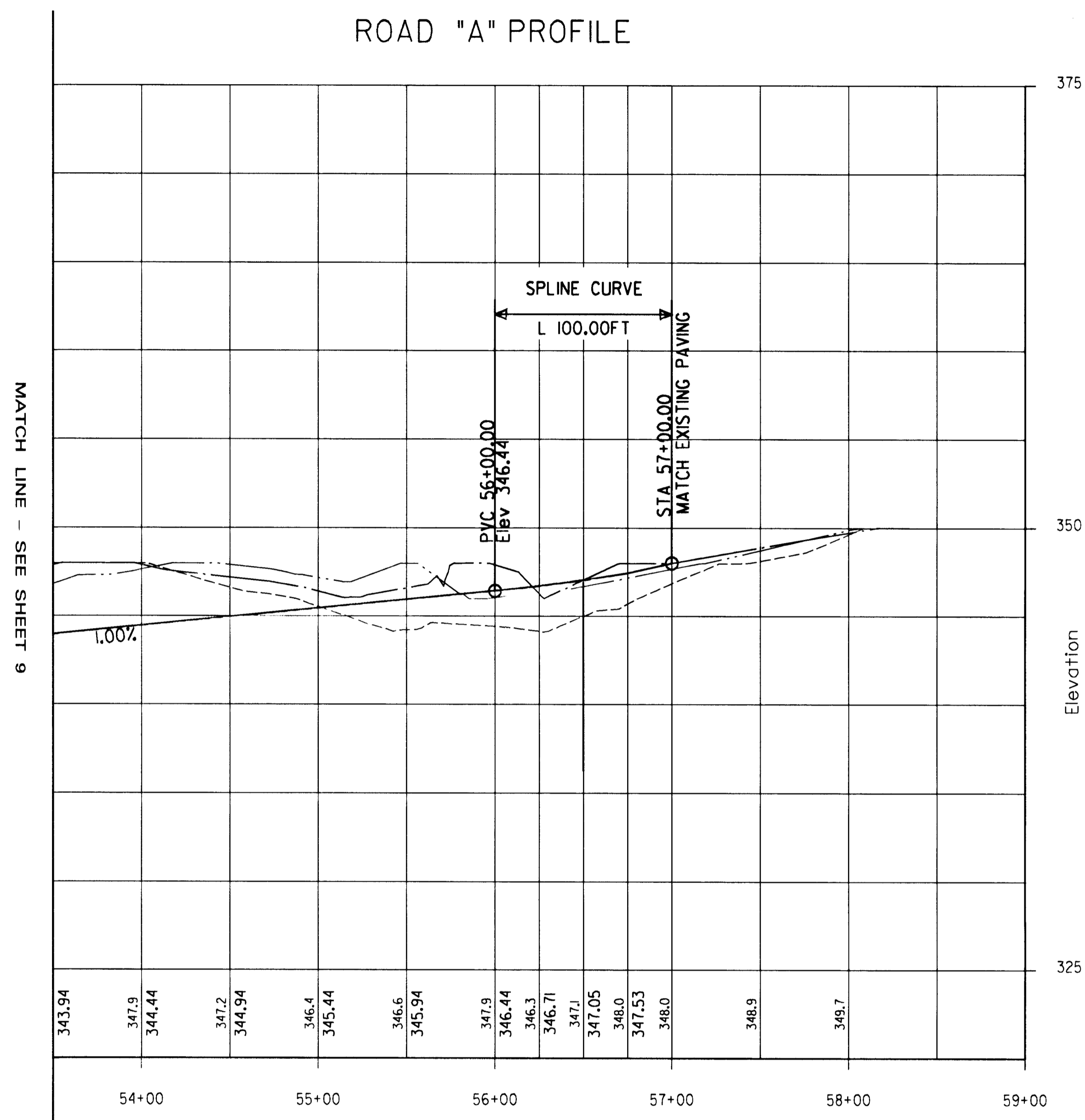
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7 OF 22

47

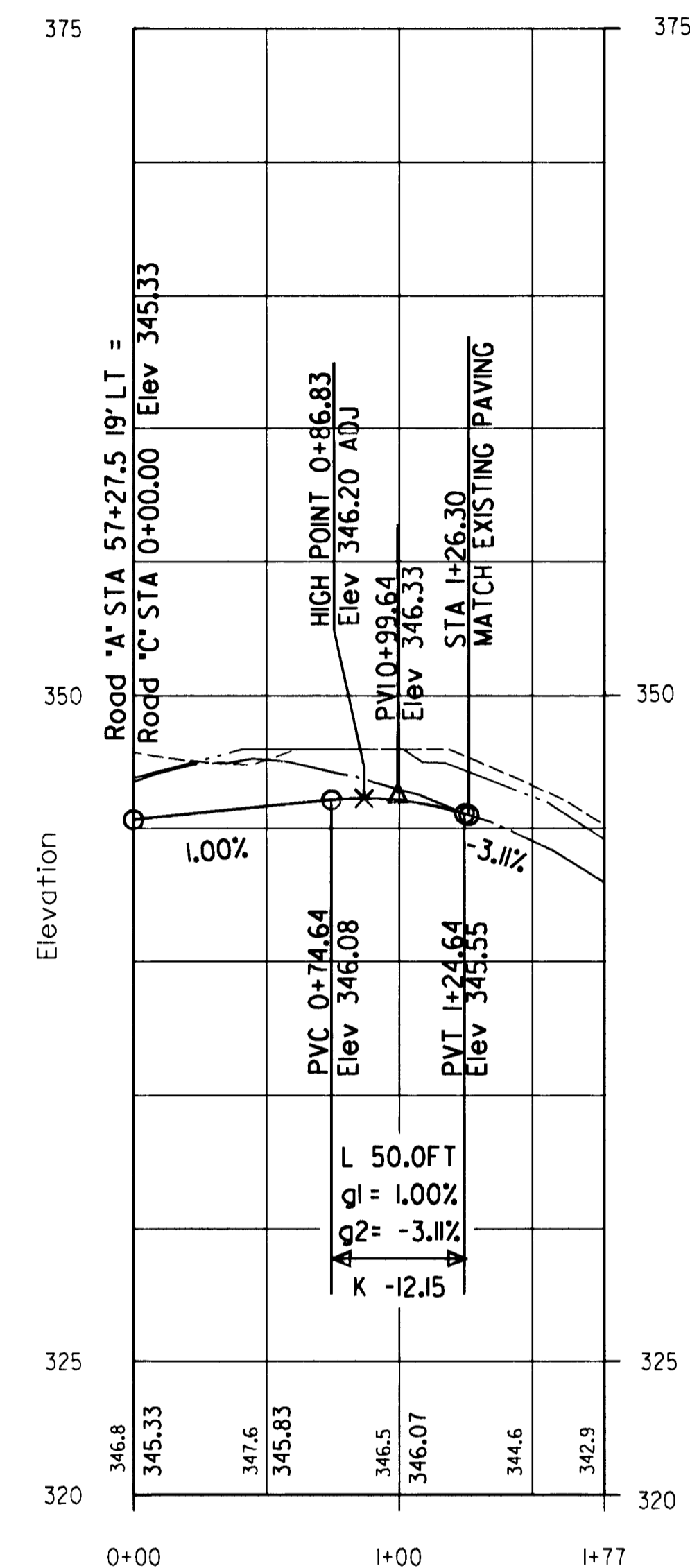
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Mon Jul 1 17:02:07 1996 d:\94402\944022\215

ROAD "A" PROFILE



ROAD "C" PROFILE



LEGEND

LINE	SURFACE	OFFSET
—	PROPOSED CENTERLINE	0.00
- - -	EXISTING CENTERLINE	0.00
- - -	EXISTING LEFT R/W	-30.00
- - -	EXISTING RIGHT R/W	30.00
---	EXISTING GROUND ELEVATION	340.8
---	PROPOSED GROUND ELEVATION	342.44

VERTICAL SCALE 1"=5'
HORIZONTAL SCALE 1"=50'

Mon Jul 1 15:16:52 1996 d:\94140\94140d2\3.ppt

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James P. Sullivan 7/3/96
DIRECTOR OF PUBLIC WORKS DATE
Andrew M. Daniels 7-3-96
CHIEF, BUREAU OF HIGHWAYS DATE

Paul J. Sporn 7/3/96
CHIEF, BUREAU OF ENGINEERING DATE
Steve D. ... 7/3/96
CHIEF, DIVISION OF TRANSPORTATION
PROJECTS AND WATERSHED MANAGEMENT DATE

DMW
Daft · McCune · Walker, Inc.
A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, Towson, Maryland 21286
Engineers, Surveyors & 410 296 3333
Environmental Professionals Fax 296 4705



DESIGN BY:	JWS		
DRAWN BY:	JWS/PSN		
CHECKED BY:	JWR		
DATE:	FEB. 5, 1996		
BY	NO.	REVISION	DATE
JWS	1	ROAD "C" REDESIGN	7/01/96

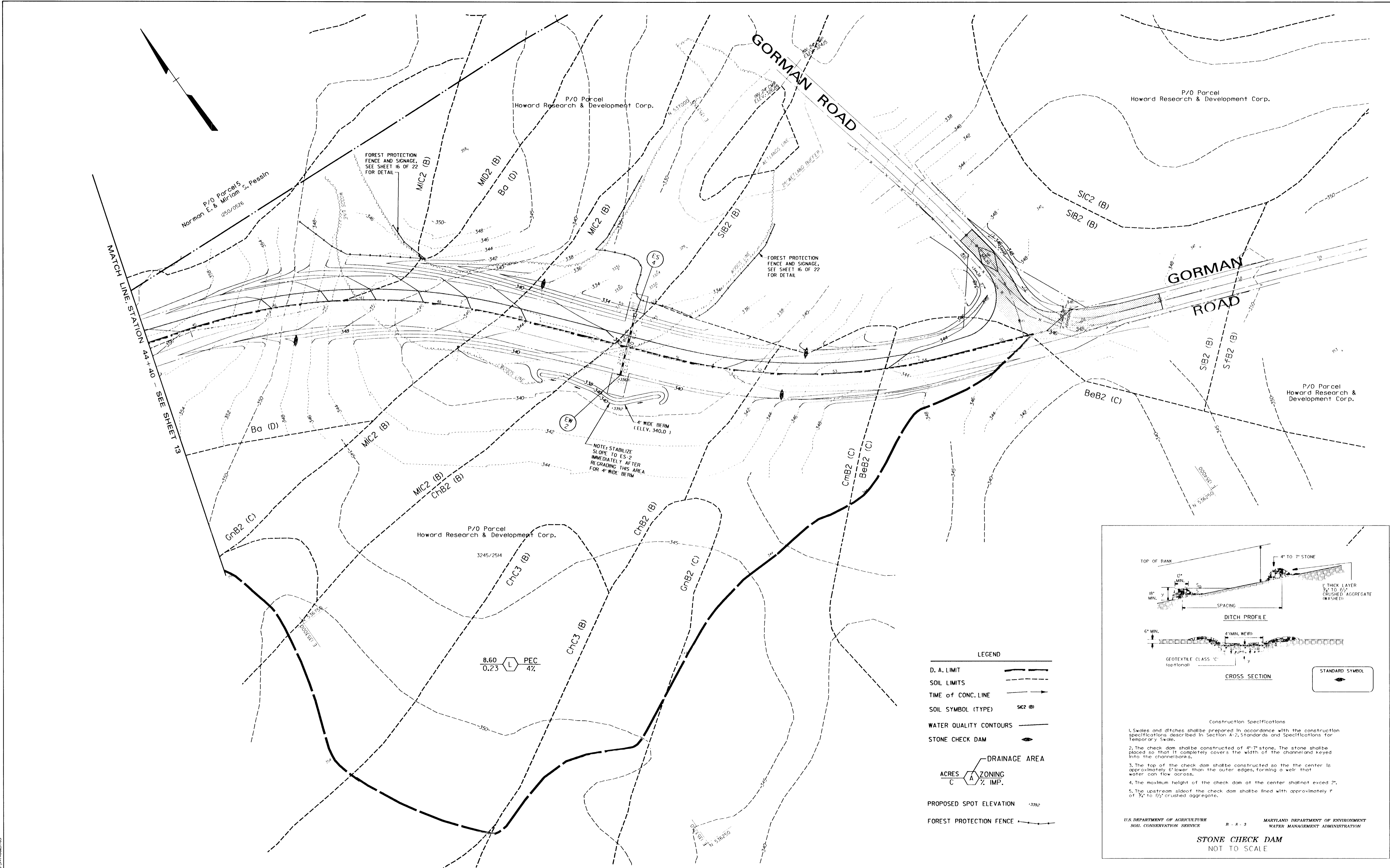
ROADWAY PROFILES

600 SCALE MAP NO. 47 BLOCK NO. 2

GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE AS SHOWN
SHEET 10 OF 22

Mon Jul 1 15:16:52 1996 d:\94140\94140d2\3.ppt

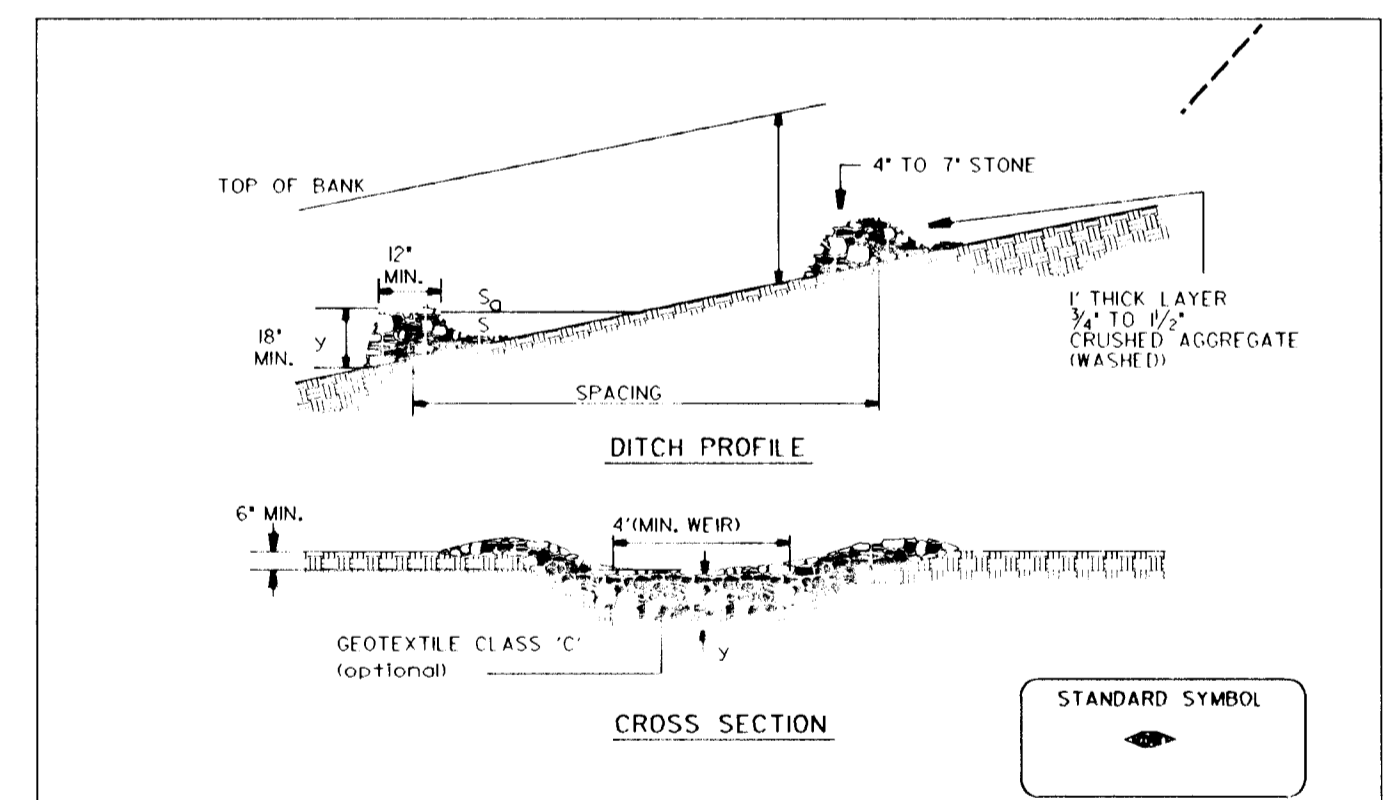


NOTE: STABILIZE SLOPE TO ES-2 IMMEDIATELY AFTER REGRADING THIS AREA FOR 4' WIDE BERM

FOREST PROTECTION FENCE AND SIGNAGE, SEE SHEET 16 OF 22 FOR DETAIL

FOREST PROTECTION FENCE AND SIGNAGE, SEE SHEET 16 OF 22 FOR DETAIL

- LEGEND**
- D. A. LIMIT
 - SOIL LIMITS
 - TIME OF CONC. LINE
 - SOIL SYMBOL (TYPE) **SC2 (B)**
 - WATER QUALITY CONTOURS
 - STONE CHECK DAM
 - DRAINAGE AREA
ACRES **A** ZONING **C** % IMP.
 - PROPOSED SPOT ELEVATION **+339.2**
 - FOREST PROTECTION FENCE



Construction Specifications

- Swales and ditches shall be prepared in accordance with the construction specifications described in section A.2, Standards and Specifications for Temporary Swale.
- The check dam shall be constructed of 4"-7" stone. The stone shall be placed so that it completely covers the width of the channel and keyed into the channelbanks.
- The top of the check dam shall be constructed so the center is approximately 6" lower than the outer edges, forming a weir that water can flow across.
- The maximum height of the check dam at the center shall not exceed 2'.
- The upstream slope of the check dam shall be lined with approximately 1" of 3/4" to 1/2" crushed aggregate.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE B - 8 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

STONE CHECK DAM
NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

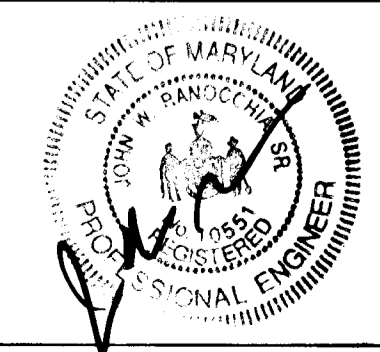
James A. Lewis 7/3/96
DIRECTOR OF PUBLIC WORKS DATE

Steve Schan 7/3/96
CHIEF, DIVISION OF TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
410 296 3333
Fax 296 4705



DESIGN BY:	JWS/REH				
DRAWN BY:	JWS/SPN				
CHECKED BY:	JWR				
DATE:	FEB. 5, 1996	JWS	1	ROAD "C" REDESIGN	7/01/96
		BY	NO.	REVISION	DATE

GRADING \ WATER QUALITY PLAN

600 SCALE MAP NO. 47 BLOCK NO. 2

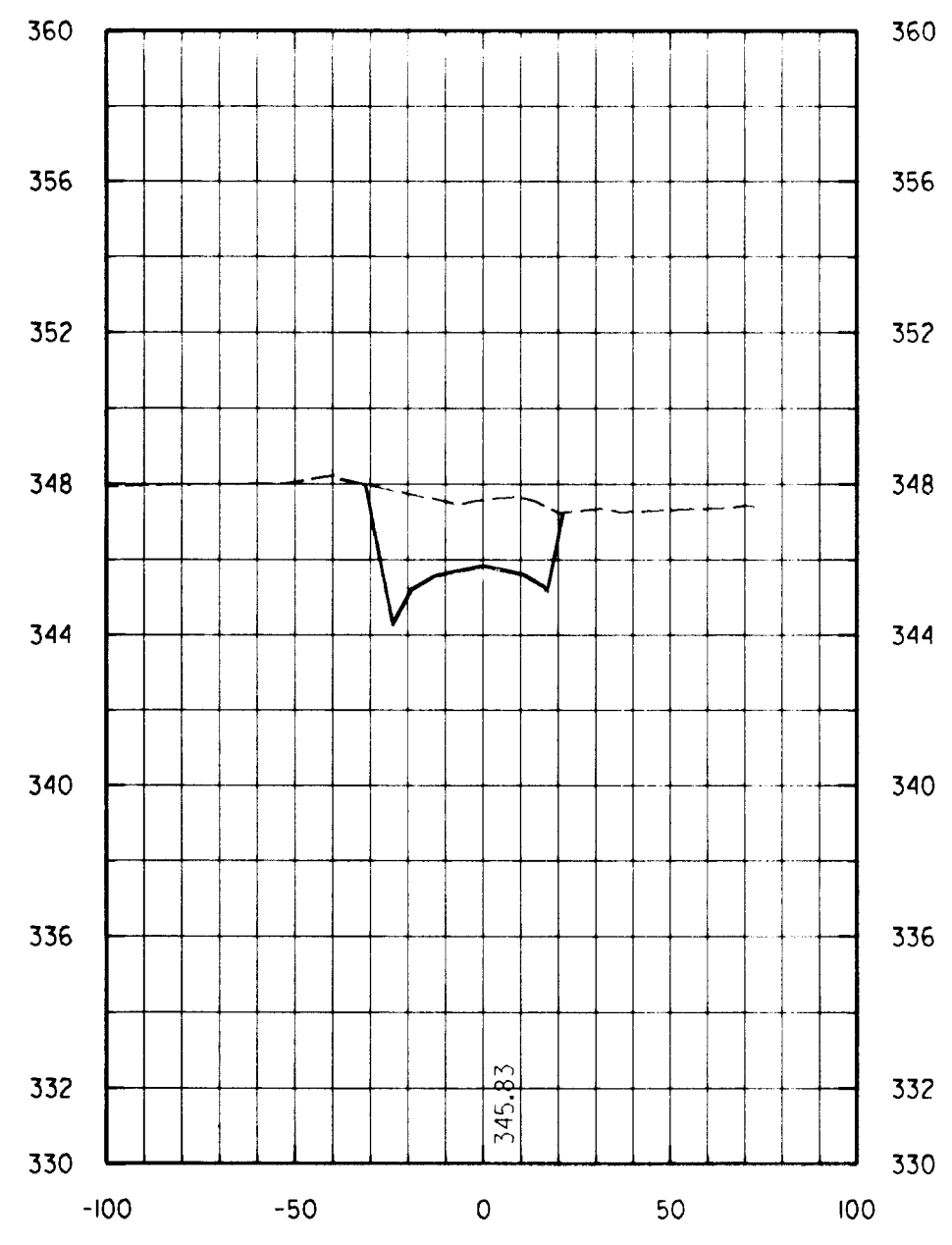
GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE
1" = 50'

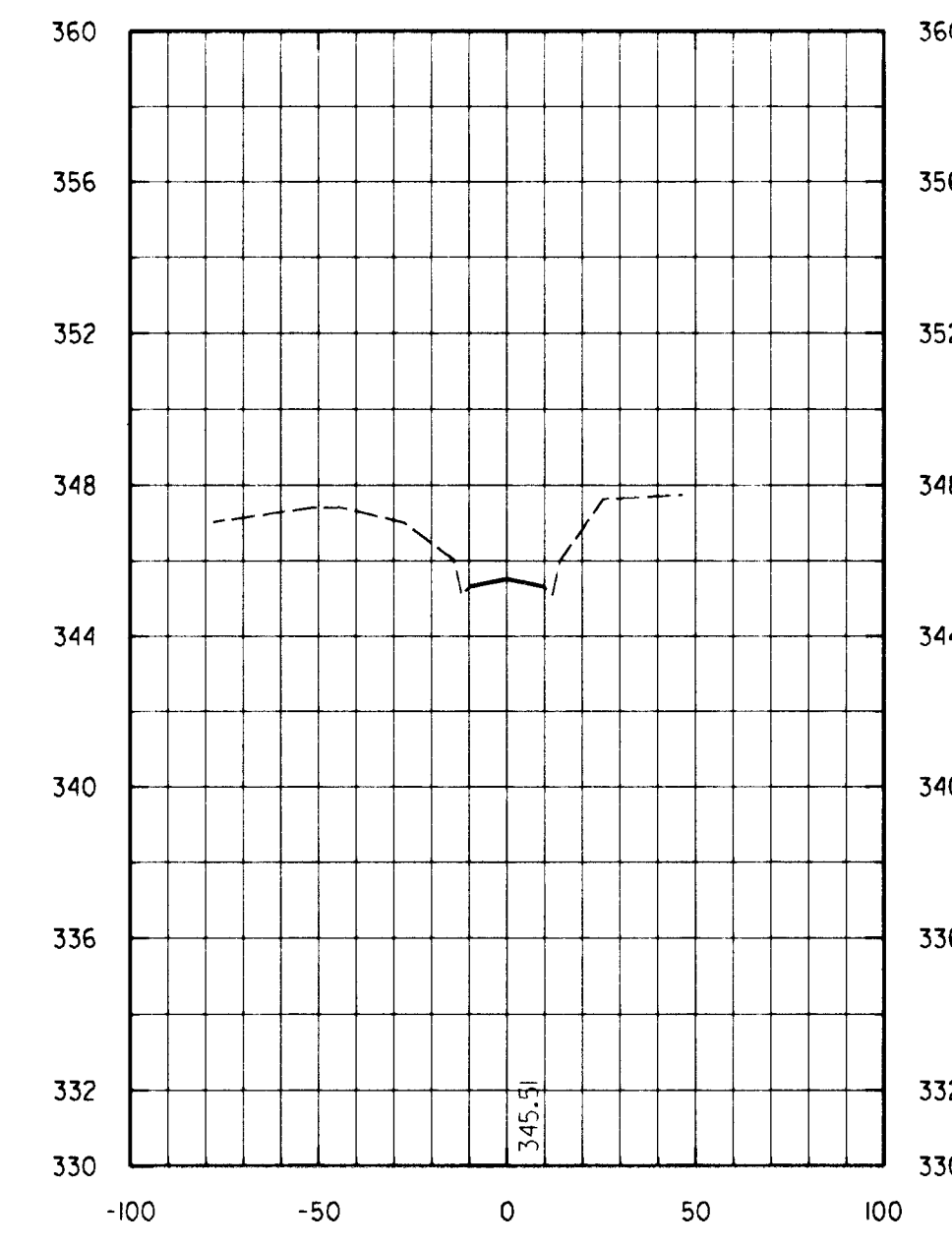
SHEET
14 OF 22

Mon Jul 15 15:47:31 1996 d:\944400\94440023.dwg

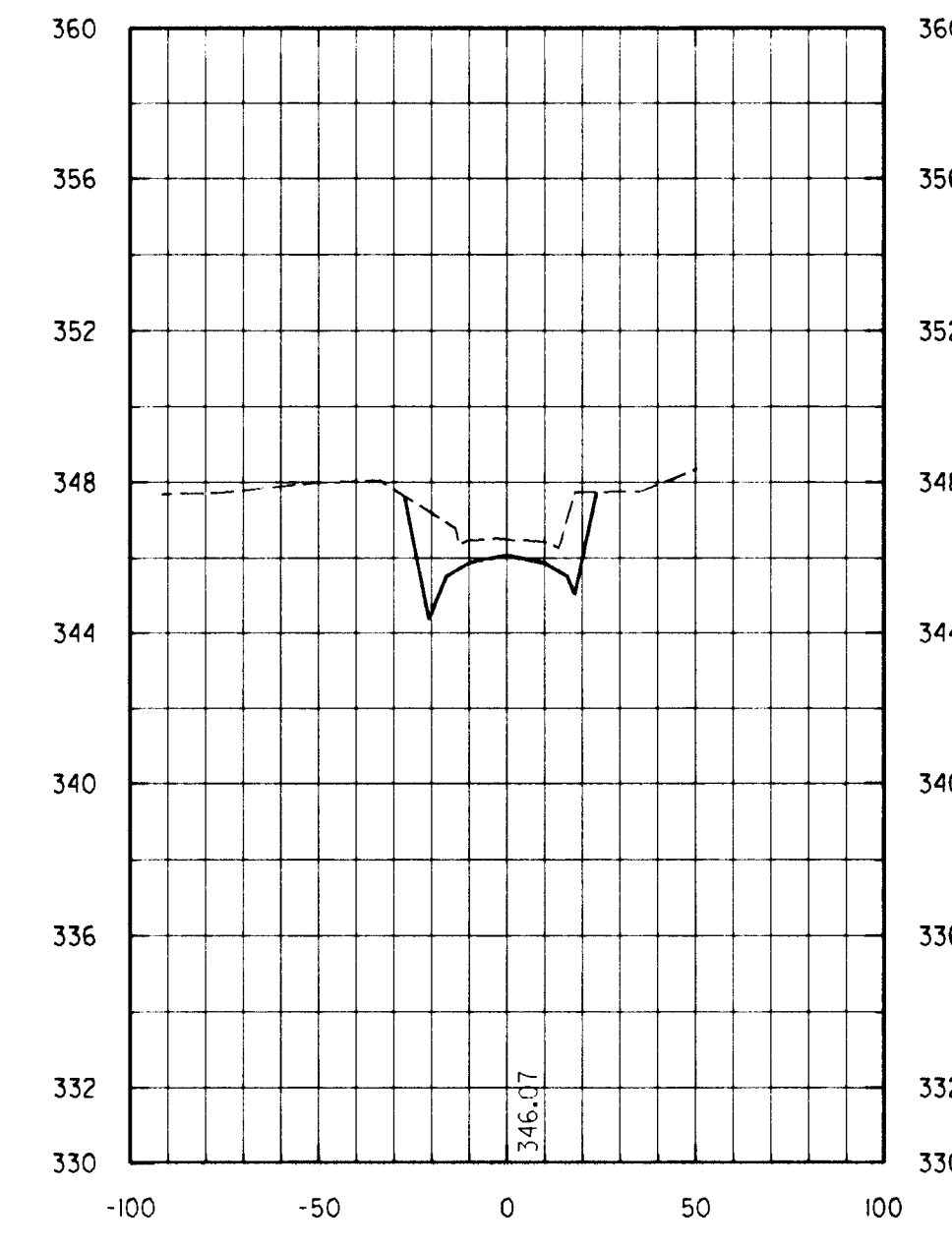
Mon Jul 15 15:47:31 1996 d:\944400\94440023.dwg



0+50 Area Cut : 104.0
Area Fill: 0.0



1+26 Area Cut : 0.0
Area Fill: 0.0



1+00 Area Cut : 52.0
Area Fill: 0.0

NOTE: 1) EARTHWORK SHOWN IS RELATED TO FINISHED GRADE
2) AREA UNITS - SQUARE FEET

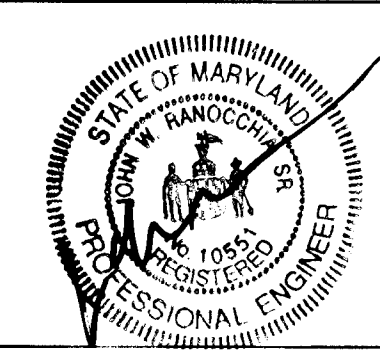
LEGEND
 EXISTING GROUND
 PROPOSED GRADE
 PROPOSED Q ELEVATION 360.17

Mon Jul 11 15:27:29 1996 d:\941400\94140023.2.dwg

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Lewis 7/3/96
DIRECTOR OF PUBLIC WORKS DATE
Robert M. Conner 7-3-96
CHIEF, DIVISION OF HIGHWAYS DATE
Robert J. Ryan 7/3/96
CHIEF, BUREAU OF ENGINEERING DATE
Steve Shuman 7/3/96
CHIEF, DIVISION OF TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DATE

DMW
Daft · McCune · Walker, Inc.
 A Team of Land Planners, 200 East Pennsylvania Avenue
 Landscape Architects, Towson, Maryland 21286
 Engineers, Surveyors & 410 296 3333
 Environmental Professionals Fax 296 4705



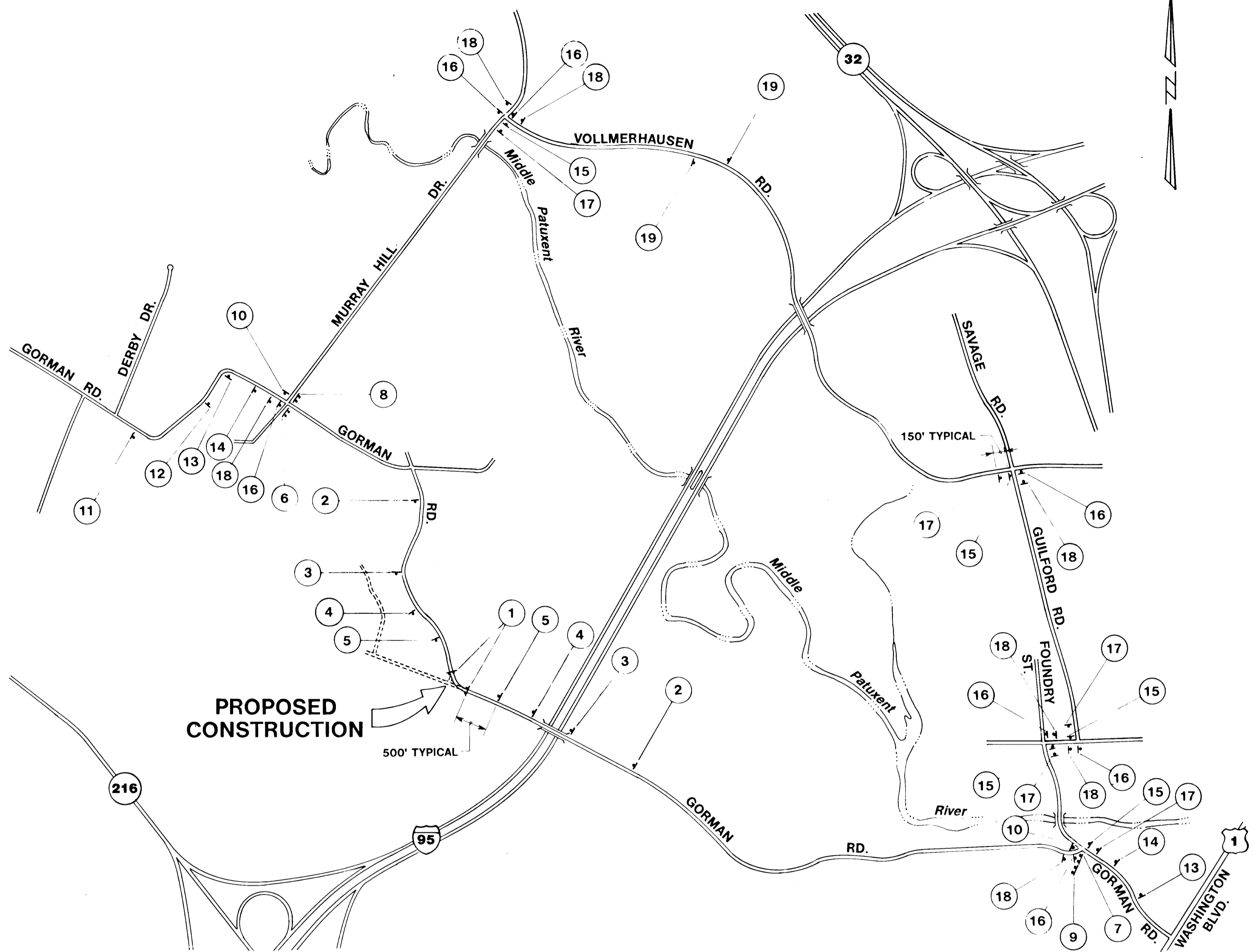
DESIGN BY:	JWS		
DRAWN BY:	JWS		
CHECKED BY:	JWR		
DATE:	FEB. 5, 1996	BY NO.	JWS 1
		REVISION	REDESIGN ROAD "C"
		DATE	7/01/96

CROSS SECTIONS
ROAD "C"
 600 SCALE MAP NO. 47 BLOCK NO. 2

GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE
VERT 1" = 5'
HOR 1" = 50'
SHEET
22 OF 22

Mon Jul 11 15:27:29 1996 d:\941400\94140023.2.dwg



PLAN
SCALE: 1"=1000'

MUTCD NO.	SIGN	QUANT.	SIZE	MUTCD NO.	SIGN	QUANT.	SIZE
1	R11-2 ROAD CLOSED	2	48" x 30" **	10	M4-8a GORMAN RD. END DETOUR	2	30" x 6" & * 24" x 12"
2	W20-3 ROAD CLOSED 1/2 MILE	2	48" x 48"	11	W20-2 DETOUR 1/2 MI	1	48" x 48"
3	W20-3 ROAD CLOSED 1500 FT.	2	48" x 48"	12	W20-2 DETOUR 1500 FT.	1	48" x 48"
4	W20-3 ROAD CLOSED 1000 FT.	2	48" x 48"	13	W20-2 DETOUR 1000 FT.	2	48" x 48"
5	W20-3 ROAD CLOSED 500 FT.	2	48" x 48"	14	W20-2 DETOUR 500 FT.	2	48" x 48"
6	R11-3 & M4-10L ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY DETOUR	1	60" x 30" & ** 48" x 18"	15	M4-9R GORMAN RD. DETOUR	5	30" x 6" & * 30" x 24"
7	R11-3 & M4-10R ROAD CLOSED 1 3/4 MILE AHEAD LOCAL TRAFFIC ONLY DETOUR	1	60" x 30" & ** 48" x 18"	16	M4-9L GORMAN RD. DETOUR	7	30" x 6" & * 30" x 24"
8	SPECIAL SUNSPRING GARDEN WINCOPIA FARMS ACCESS OPEN	1	60" x 30"***	17	M4-9R GORMAN RD. DETOUR	5	30" x 6" & * 30" x 24"
9	SPECIAL SUNSPRING GARDEN WINCOPIA FARMS FOLLOW DETOUR	1	60" x 30"***	18	M4-9L GORMAN RD. DETOUR	7	30" x 6" & * 30" x 24"
				19	M4-9 GORMAN RD. DETOUR	2	30" x 6" & * 30" x 24"

NOTE: SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST MUTCD STANDARDS.

NOTE: BARRICADES AND SIGNS TO BE DELIVERED TO TRAFFIC SHOP (AT 14735 FREDERICK ROAD, COCKEYSVILLE, MD 313-5460) UPON COMPLETION OF WORK

* ADD ROAD NAMES
** MOUNTED ON TYPE III BARRICADES WITH WARNING LIGHTS

C416F # 1

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 7/2/96
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 7/3/96
CHIEF, BUREAU OF HIGHWAYS DATE

[Signature] 7/1/96
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 7/1/96
CHIEF, DIVISION OF TRANSPORTATION PROJECTS AND WATERSHED MANAGEMENT DATE

DMW
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue
Landscape Architects, P.O. Box 209
Engineers, Surveyors & Planners, P.O. Box 209
Environmental Professionals, Cockeysville, MD 21030
Tel: 410-296-3333 Fax: 410-296-4705



DESIGN BY:			
DRAWN BY:	DKH		
CHECKED BY:	JWR		
DATE:	JUNE 28, 1996		
BY NO.		REVISION	DATE

600 SCALE MAP NO. 47 BLOCK NO. 2

DETOUR PLAN

GORMAN ROAD REALIGNMENT
CAPITAL PROJECT E-0935
ELECTION DISTRICT NO. 6
HOWARD COUNTY MARYLAND

SCALE AS SHOWN

SHEET 1 OF 1