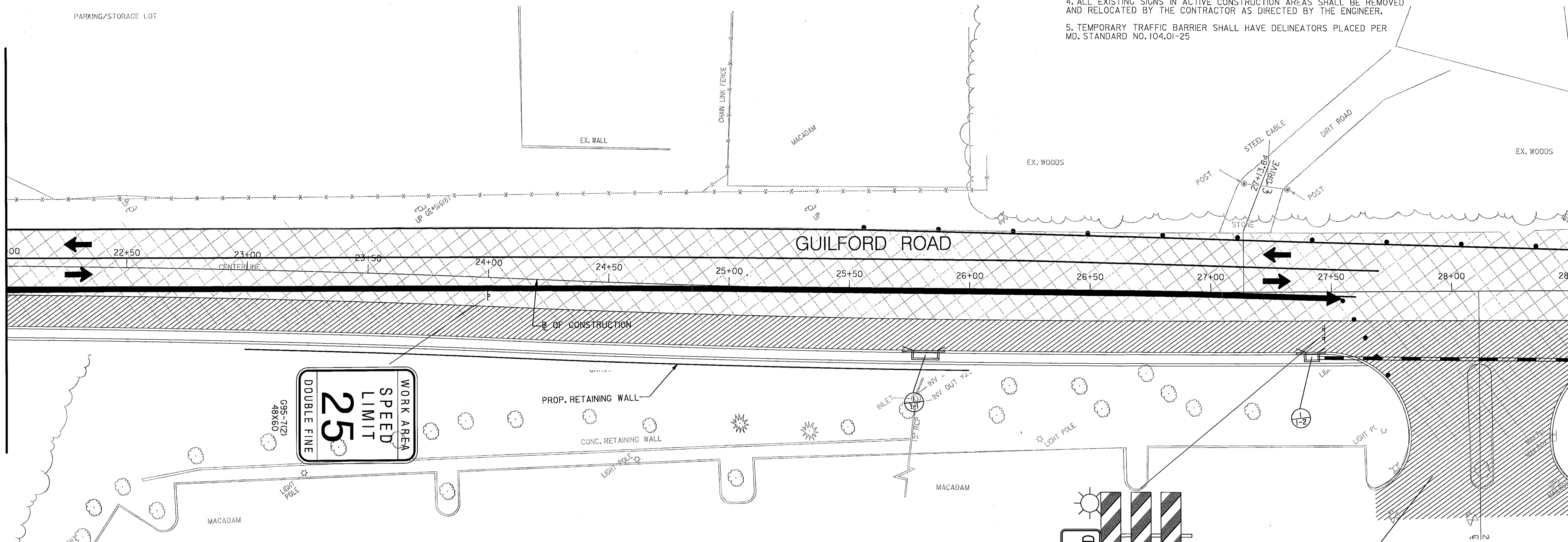


TRAFFIC CONTROL - GENERAL NOTES

1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

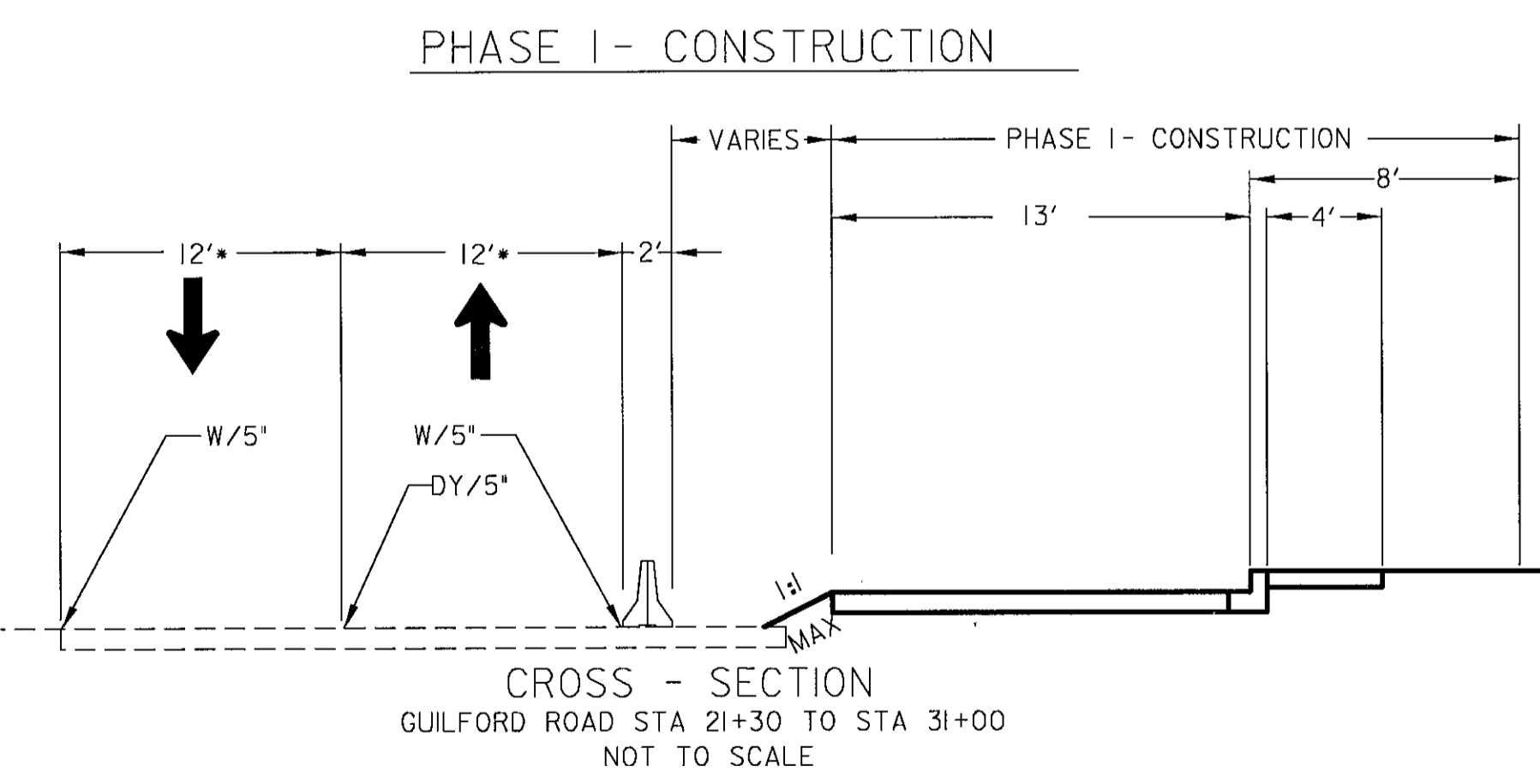
MATCH LINE STA. 22+00 SEE MOT SHEET 1

MATCH LINE STA. 28+50 SEE MOT SHEET 3



LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- ⊥ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ◊ WEDGE AND LEVEL
- ◻ EXISTING PAVEMENT
- W/5' SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5' SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5' BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5' DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER



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LIBRARY: MDHSIALS
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

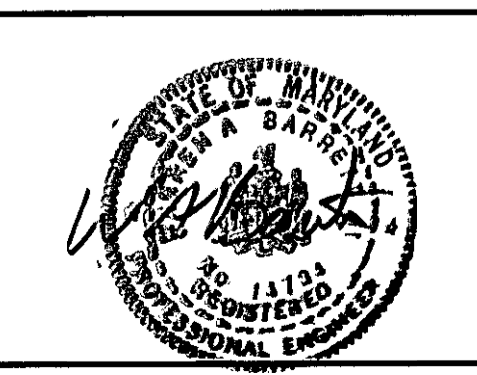
John J. ... 8/17/06
DIRECTOR OF PUBLIC WORKS DATE

Paul ... 8/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Jim ... 8/17/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



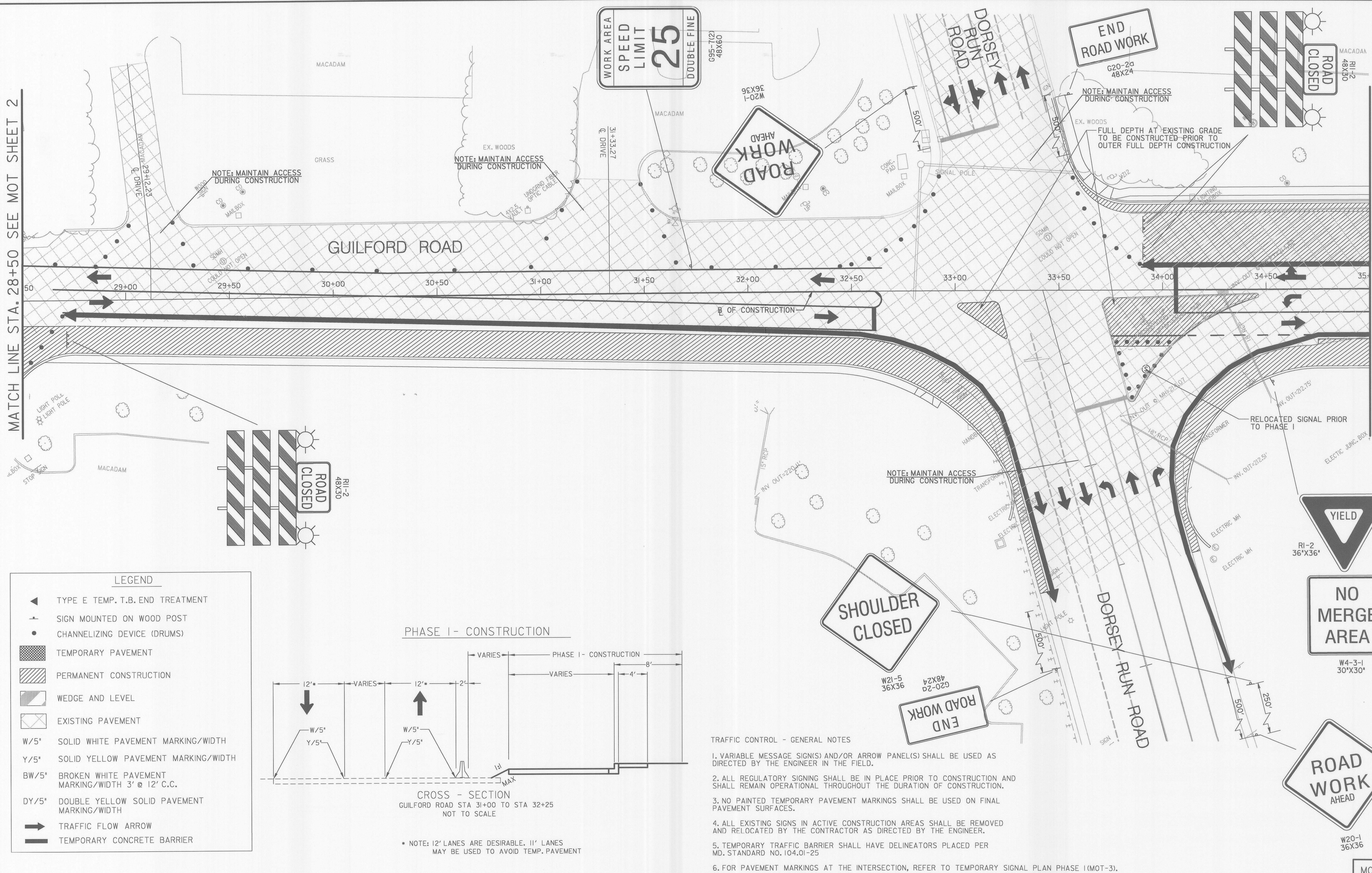
DES: JMR					
DRN: DKS					
CHK: TCC					
DATE: 8-06	BY	NO.		DATE	

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE I

CAPITAL PROJECT No. J-4175 AND B-3855

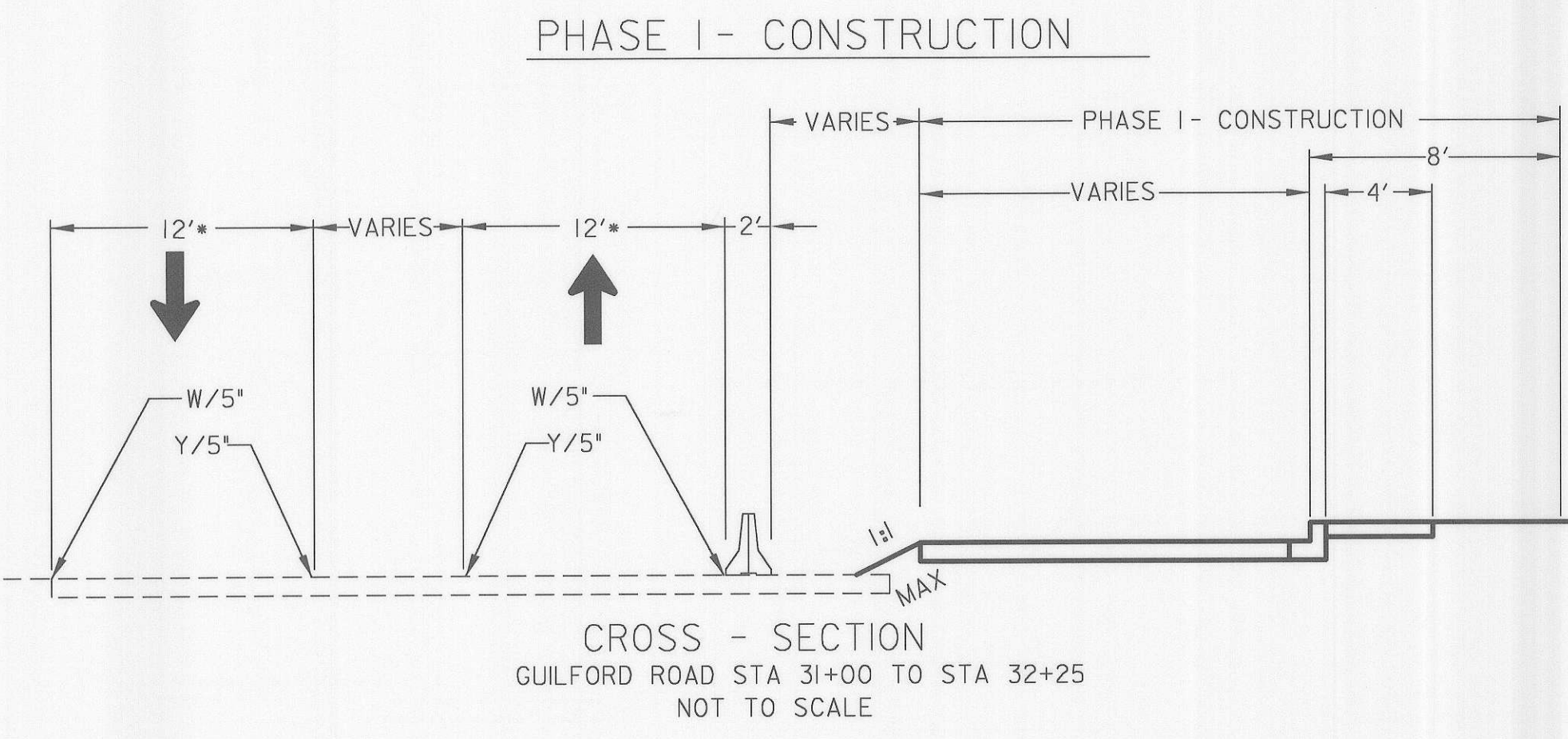
MATCH LINE STA. 28+50 SEE MOT SHEET 2

MATCH LINE STA. 35+00 SEE MOT SHEET 4



LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- + SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▧ PERMANENT CONSTRUCTION
- ▩ WEDGE AND LEVEL
- ▦ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER



- TRAFFIC CONTROL - GENERAL NOTES**
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 5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25
 6. FOR PAVEMENT MARKINGS AT THE INTERSECTION, REFER TO TEMPORARY SIGNAL PLAN PHASE I (MOT-3).

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07/27/2006
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James P. Lee 8/7/06
DIRECTOR OF PUBLIC WORKS DATE

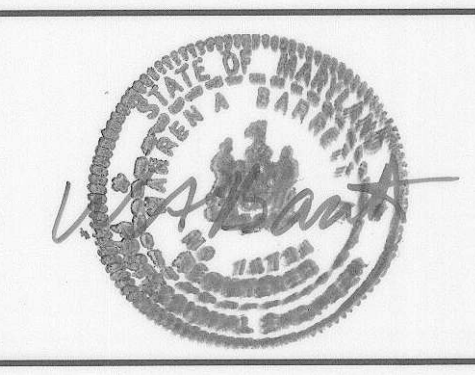
Paul J. Seaman 8/7/06
CHIEF, BUREAU OF ENGINEERING DATE

William A. Hill 8/8/06
CHIEF, BUREAU OF HIGHWAYS DATE

Jay Stewart 8/7/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: JMK					
DRN: DKS					
CHK: TCC					
DATE: 8-06					
BY	NO.				DATE

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE I

CAPITAL PROJECT No. J-4175 AND B-3855

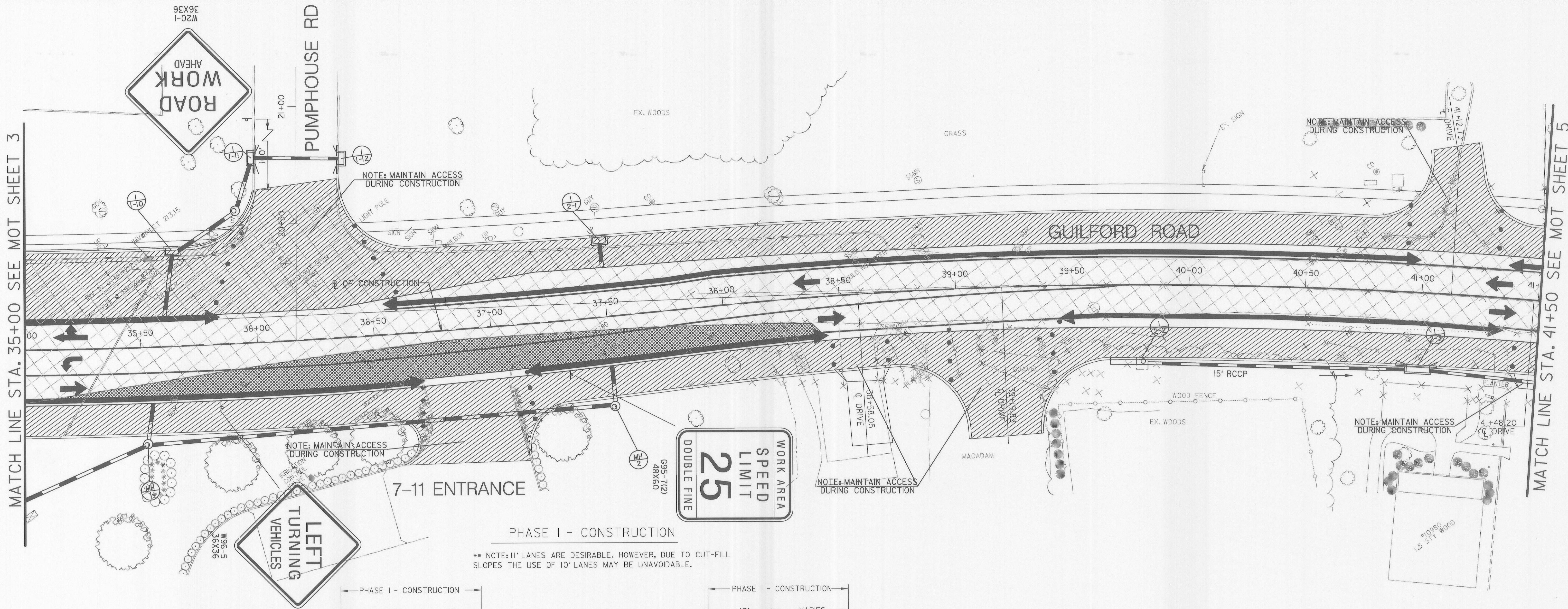
MOT-3

SCALE
1" = 20'

SHEET
61 OF 156

MATCH LINE STA. 35+00 SEE MOT SHEET 3

MATCH LINE STA. 41+50 SEE MOT SHEET 5

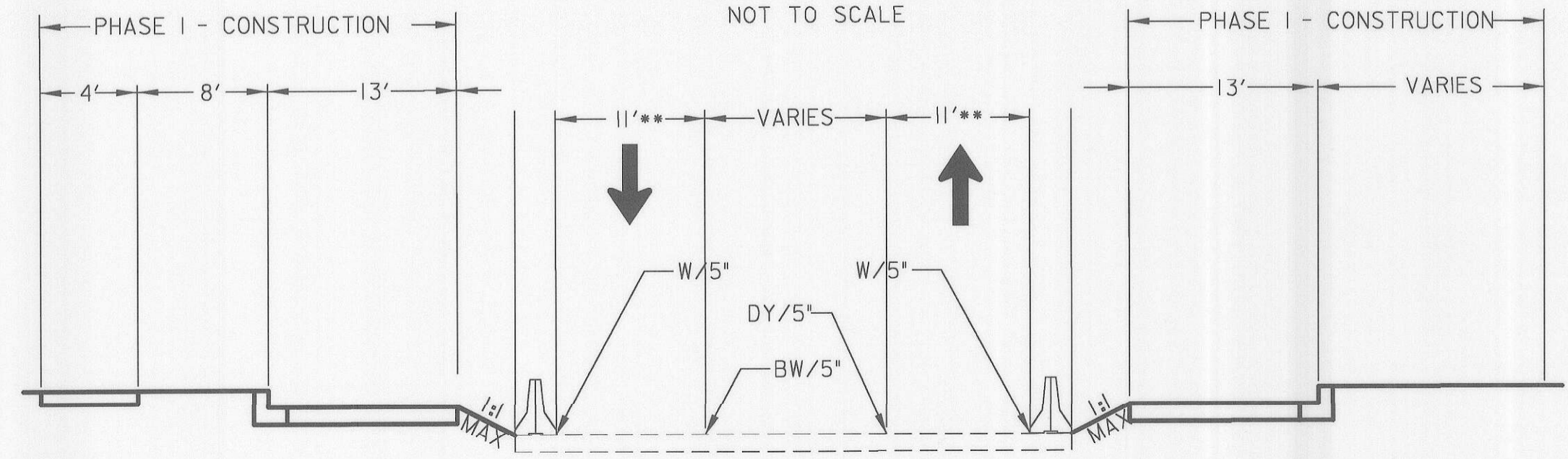
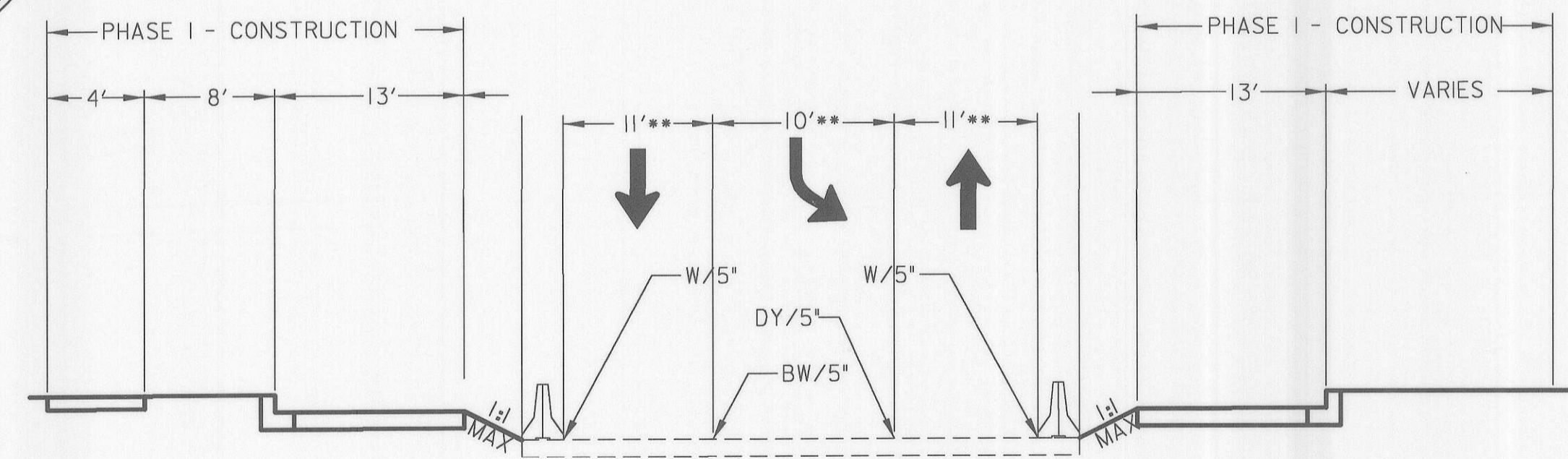


PHASE I - CONSTRUCTION

** NOTE: 11' LANES ARE DESIRABLE. HOWEVER, DUE TO CUT-FILL SLOPES THE USE OF 10' LANES MAY BE UNAVOIDABLE.

LEGEND

- ◄ TYPE E TEMP. T.B. END TREATMENT
- ⊕ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ▧ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3" @ 12" C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER



- TRAFFIC CONTROL - GENERAL NOTES**
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 - TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

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LIBRARY=MDSHALS
DATE: 8/27/2006
BY: JAR from \gulford\geo\mot\mot1-4.dgn

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Jan 7 Shaw 8/26/06
DIRECTOR OF PUBLIC WORKS DATE

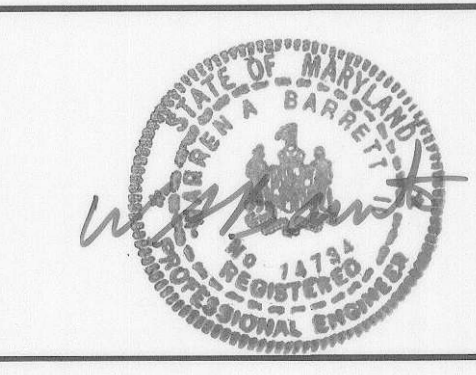
Paul S. Johnson 8/17/06
CHIEF, BUREAU OF ENGINEERING DATE

W. J. Smith 8-8-06
CHIEF, BUREAU OF HIGHWAYS DATE

Jay Stewart 8/17/06
CHIEF, DIVISION OF TRANSPORTATION,
SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: JAR					
DRN: DKS					
CHK: TCC					
DATE: 8-06					
BY	ND.				DATE

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE I

CAPITAL PROJECT No. J-4175 AND B-3855

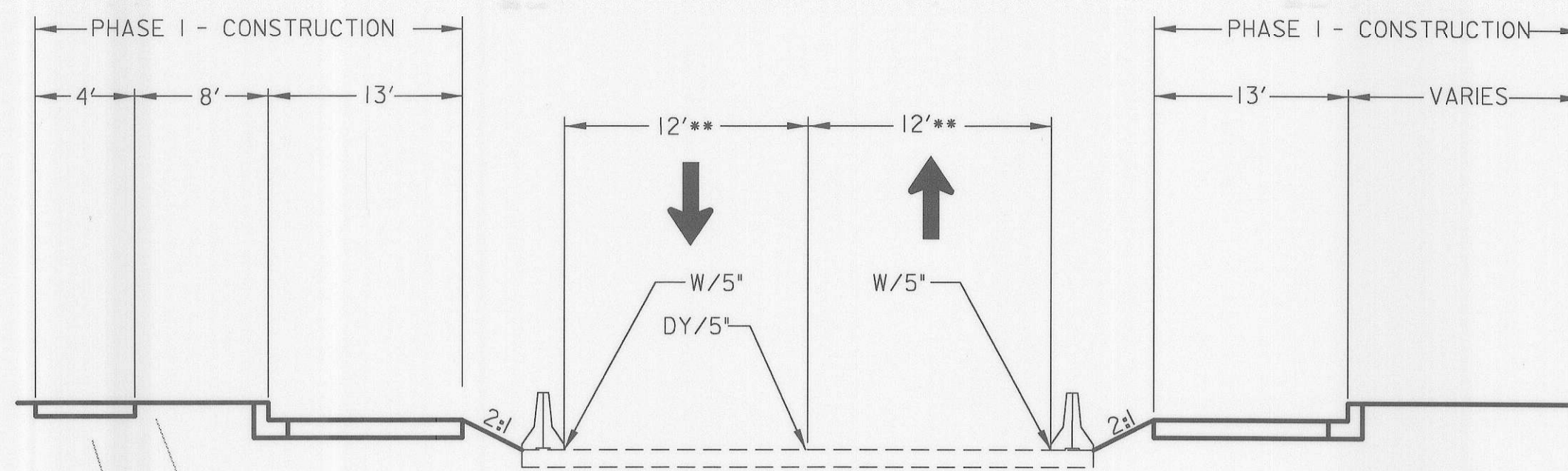
MOT-4

SCALE
1" = 20'

SHEET
62 OF 156

PHASE I - CONSTRUCTION

** NOTE: 12' LANES ARE DESIRABLE. HOWEVER, DUE TO CUT-FILL SLOPES THE USE OF 11' LANES MAY BE UNAVOIDABLE.



CROSS - SECTION
GUILFORD ROAD STA 40+00 TO STA 48+25
NOT TO SCALE

NOTE: MAINTAIN ACCESS DURING CONSTRUCTION

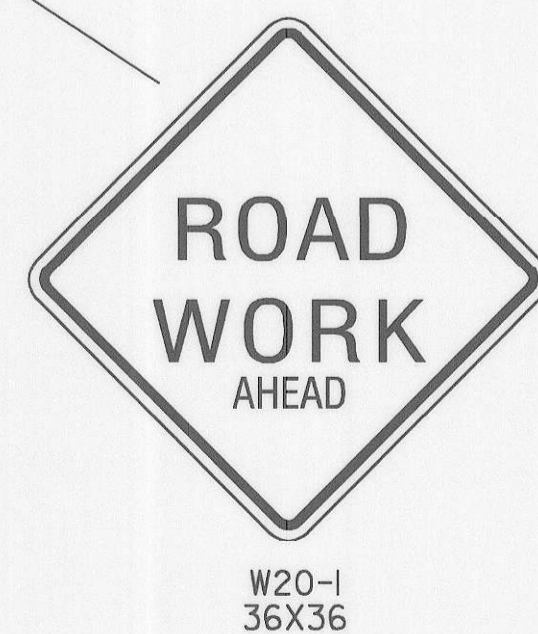
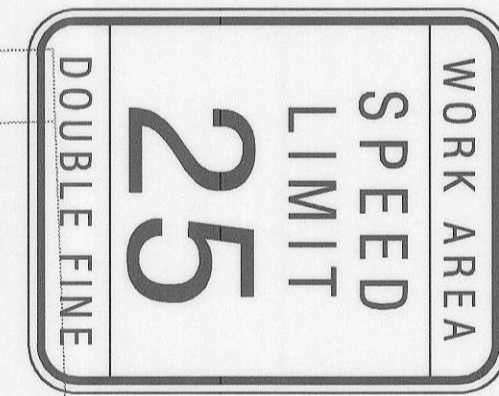
NOTE: MAINTAIN ACCESS DURING CONSTRUCTION

NOTE: MAINTAIN ACCESS DURING CONSTRUCTION

NOTE: MAINTAIN ACCESS DURING CONSTRUCTION

MATCH LINE STA. 41+50 SEE MOT SHEET 4

MATCH LINE STA. 47+50 SEE MOT SHEET 6



LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- ↑ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ▧ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

TRAFFIC CONTROL - GENERAL NOTES

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James N. Shaw 8/7/06
DIRECTOR OF PUBLIC WORKS DATE

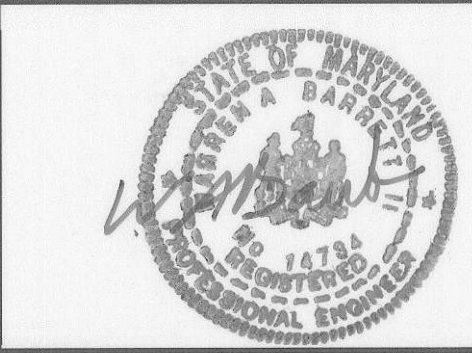
Richard S. Sorenson 8/7/06
CHIEF, BUREAU OF ENGINEERING DATE

William A. Hubert 8-8-06
CHIEF, BUREAU OF HIGHWAYS DATE

John A. ... 8/7/06
CHIEF, DIVISION OF TRANSPORTATION,
SPECIAL PROJECTS DIVISION DATE

**GANNETT
FLEMING, INC.**

BALTIMORE,
MARYLAND



DES: JMR				
DRN: DKS				
CHK: TCC				
DATE: 8-06	BY	NO.		DATE

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE I

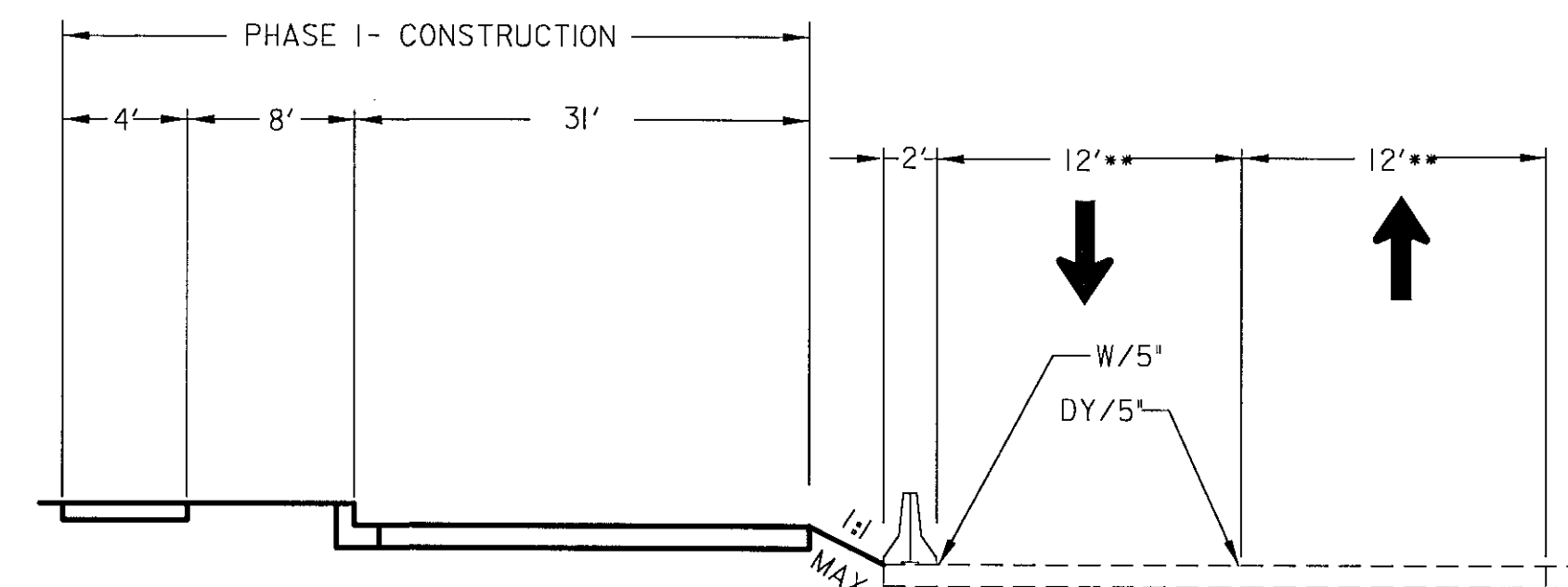
CAPITAL PROJECT No. J-4175 AND B-3855

MOT-5
SCALE
1" = 20'
SHEET
63 OF 156

LEGEND

- ◄ TYPE E TEMP. T.B. END TREATMENT
- ⊕ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▧ PERMANENT CONSTRUCTION
- ◊ WEDGE AND LEVEL
- ◻ EXISTING PAVEMENT
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- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

PHASE I - CONSTRUCTION



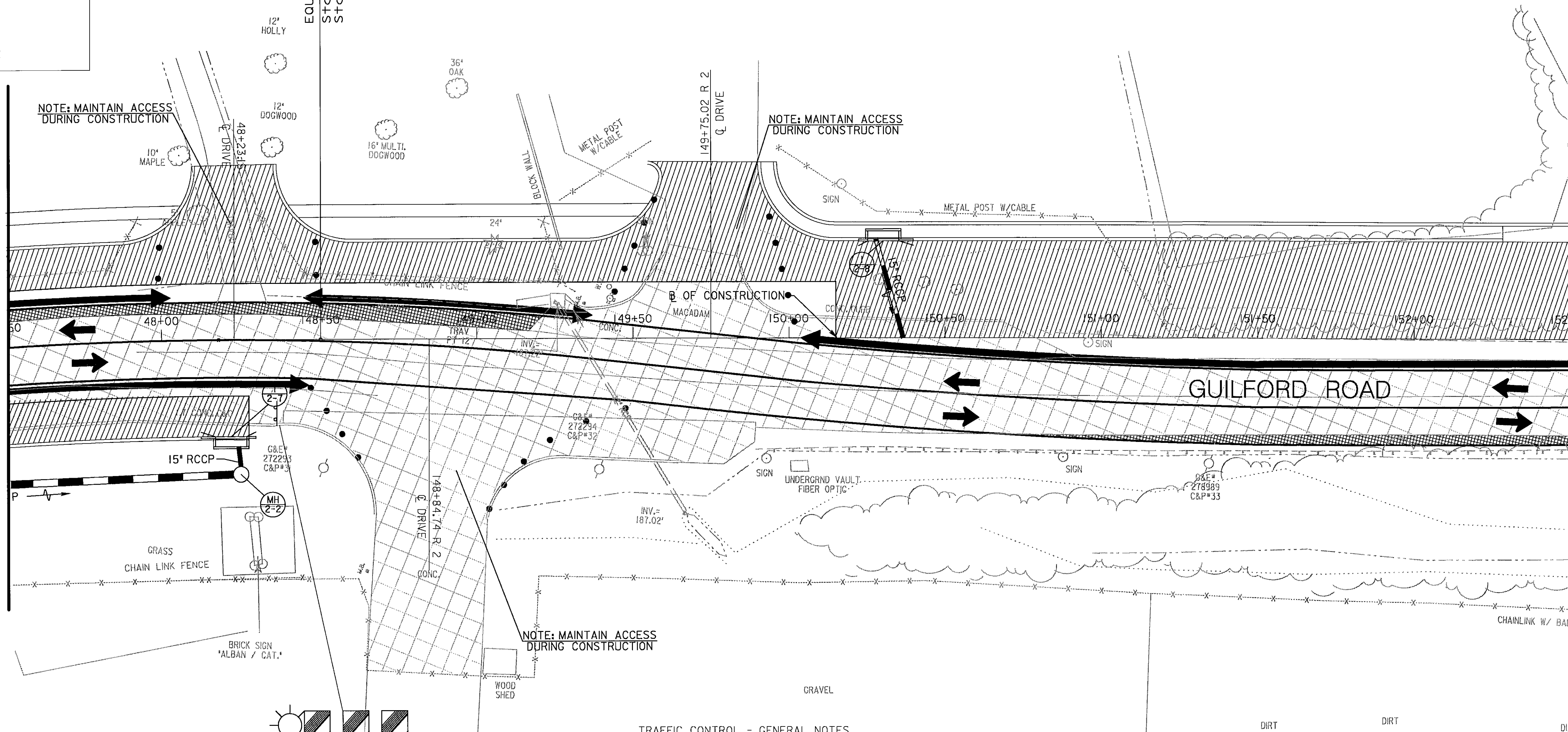
CROSS - SECTION
GUILFORD ROAD STA 150+25 TO STA 60+10
NOT TO SCALE

•• NOTE: 12' LANES ARE DESIRABLE. HOWEVER, 11' LANES ARE ACCEPTABLE TO AVOID TEMPORARY PAVEMENT.

PROJECT NO. J-4175 PROJECT NO. B-3855

EQUATION:
Sta 48+50.83 BK =
Sta 148+50.00 AH

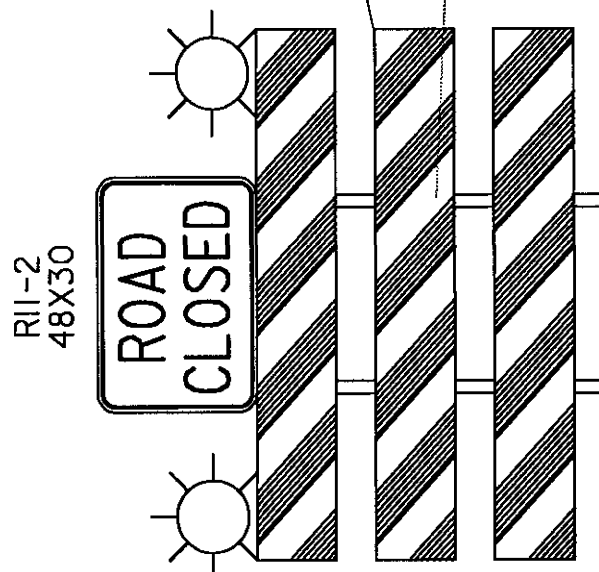
MATCH LINE STA. 47+50 SEE MOT SHEET 5



MATCH LINE STA. 152+50 SEE MOT SHEET 7

TRAFFIC CONTROL - GENERAL NOTES

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Jan 9 2006
DIRECTOR OF PUBLIC WORKS DATE

Paul J. Depina 8/7/06
CHIEF, BUREAU OF ENGINEERING DATE

Willie J. Hubert 8/8/06
CHIEF, BUREAU OF HIGHWAYS DATE

Jan 9 2006
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: JMR				
DRN: DKS				
CHK: TCC				
DATE: 8-06				
BY	NO.			DATE

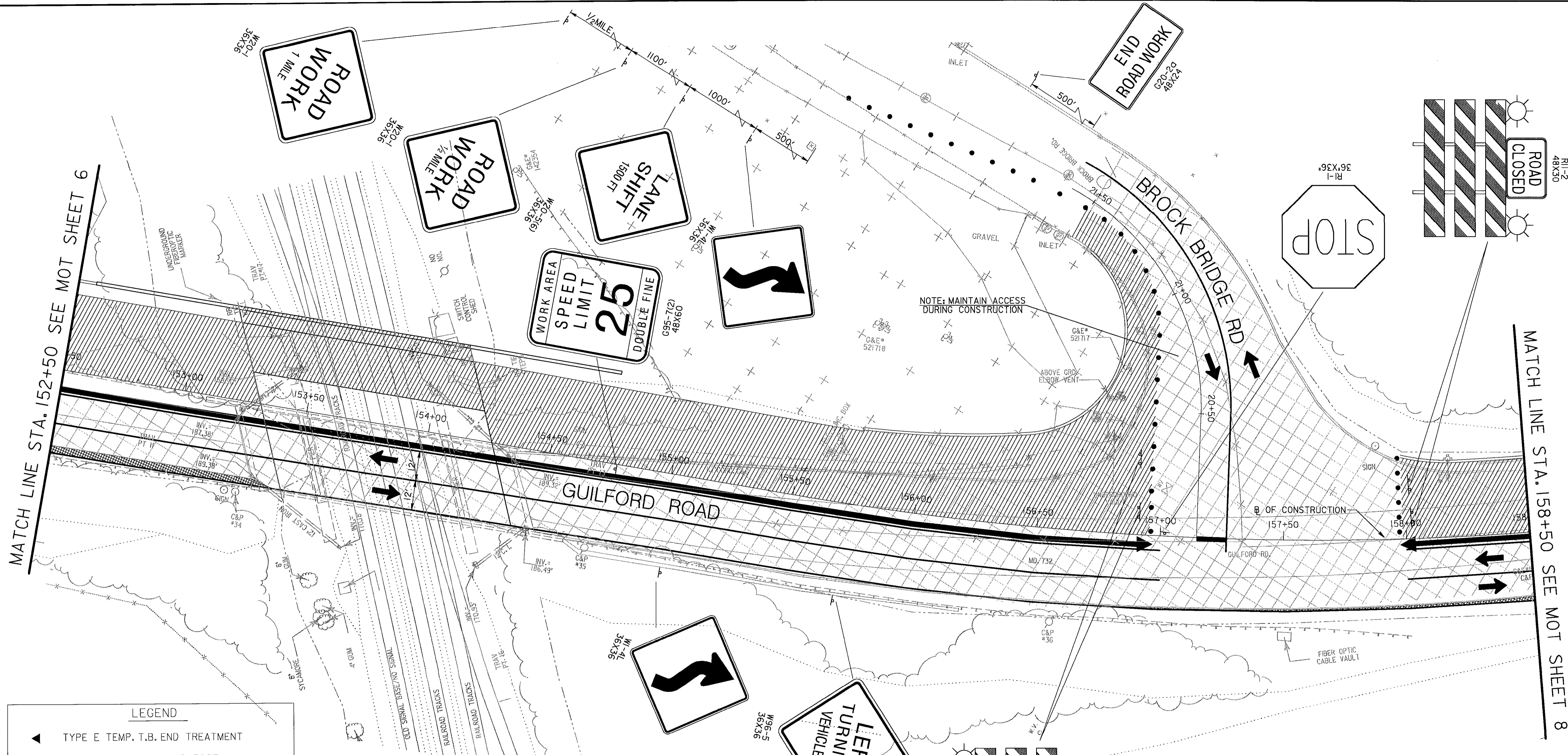
GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE I

CAPITAL PROJECT No. J-4175 AND B-3855

MOT-6

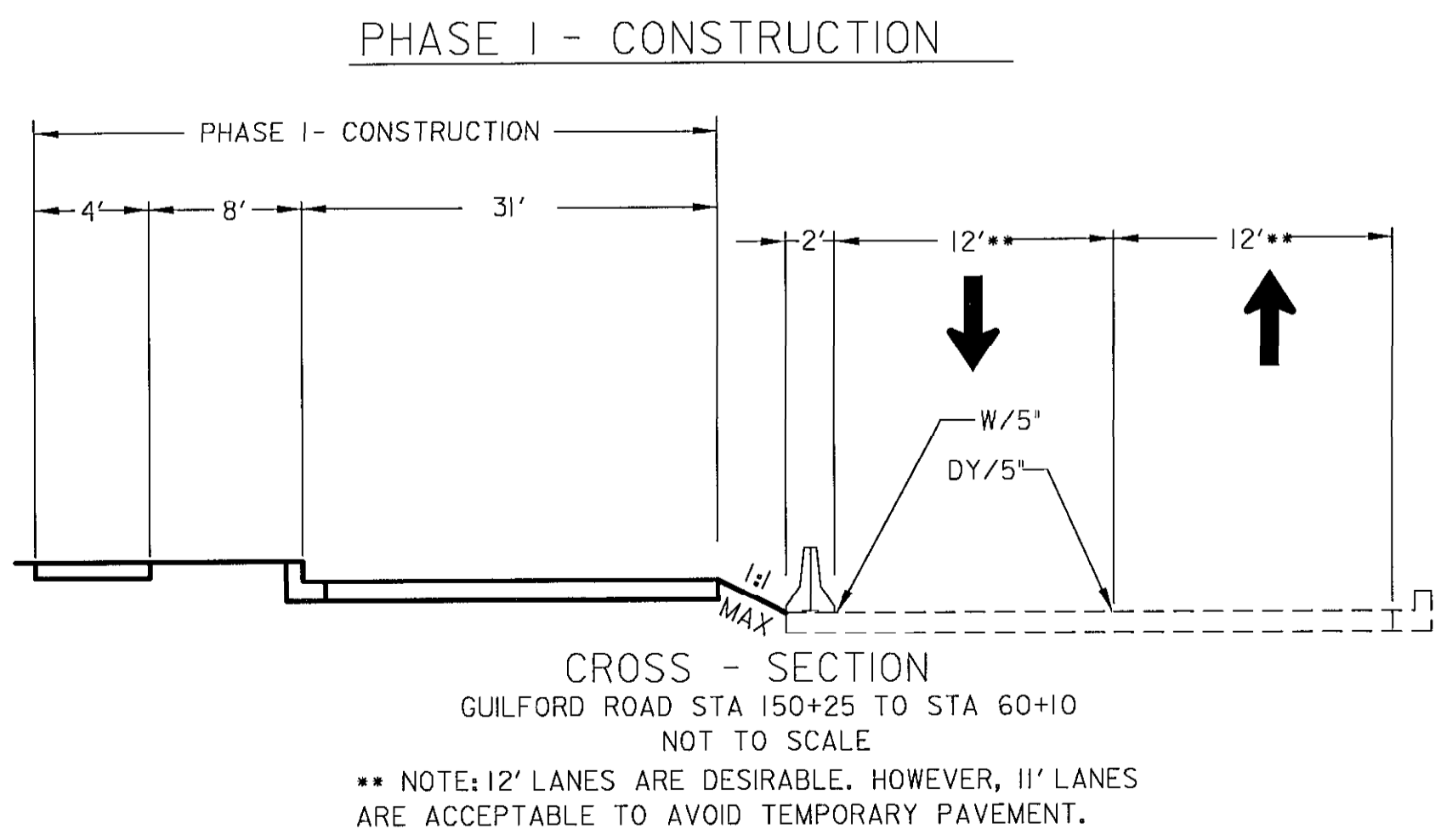
SCALE
1" = 20'

SHEET
64 OF 156



LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- ⊕ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ▧ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
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- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER



- TRAFFIC CONTROL - GENERAL NOTES**
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DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Jan 7, 2006
 DIRECTOR OF PUBLIC WORKS DATE

Paul J. Saper
 CHIEF, BUREAU OF ENGINEERING DATE

Wanda J. Hubert
 CHIEF, BUREAU OF HIGHWAYS DATE

Jay Stewart
 CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: JAK			
DRN: DKS			
CHK: TCC			
DATE: 8-06	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLANS PHASE I

CAPITAL PROJECT No. J-4175 AND B-3855

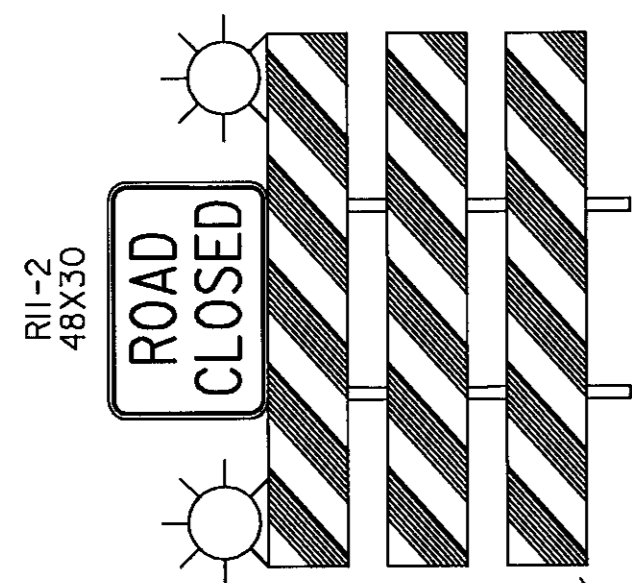
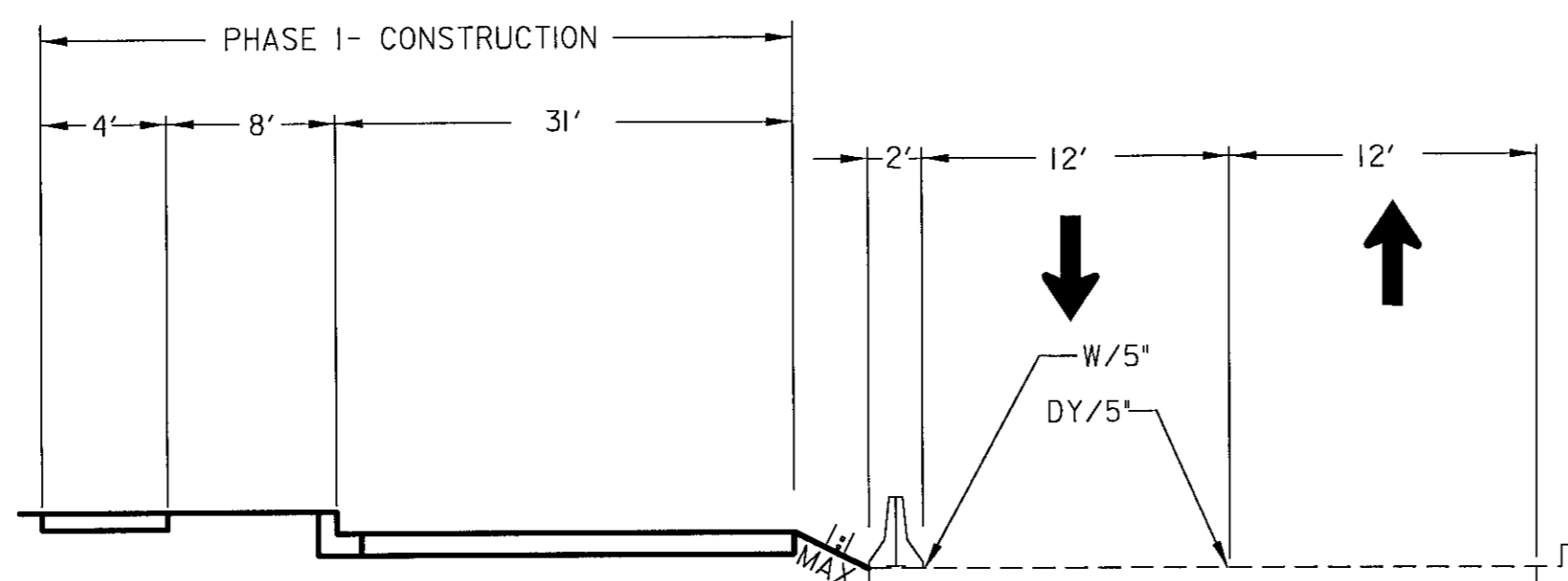
MOT-7

SCALE
 1" = 20'

SHEET
 65 OF 156

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 LINES: LIBRARY=MDSHALS
 07/27/2006
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PHASE I - CONSTRUCTION



MATCH LINE STA. 158+50 SEE MOT SHEET 7

EQUATION:
STA 159+40.00 BK =
STA 59+40.00 AH

60+29.09 R 3

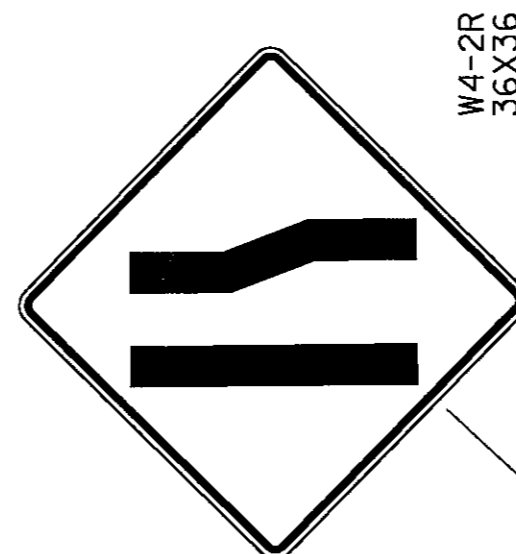
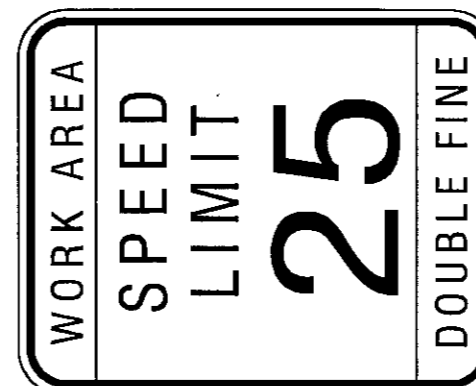
TAPER 300'

ARROW PANEL

GUILFORD ROAD

B OF CONSTRUCTION

TRAV PT 10



LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- + SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▧ PERMANENT CONSTRUCTION
- ▩ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
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- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John J. ...
DIRECTOR OF PUBLIC WORKS
DATE: 5/7/06

Richard ...
CHIEF, BUREAU OF ENGINEERING
DATE: 5/7/06

GANNETT
FLEMING, INC.



BALTIMORE,
MARYLAND



DES: JAR

DRN: DKS

CHK: TCC

DATE: 8-06

BY NO.

DATE

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE I

CAPITAL PROJECT No. J-4175 AND B-3855

MOT-8

SCALE
1" = 20'

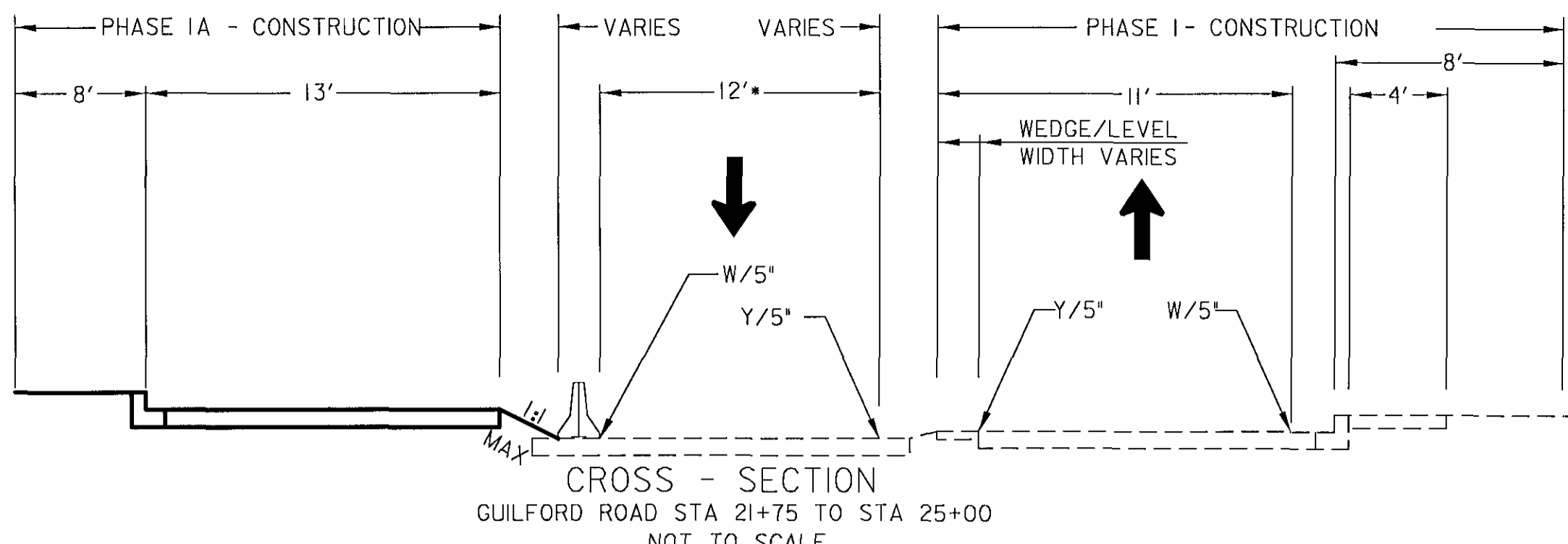
SHEET
66 OF 156

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LINESTYLE: LIBRARY=MDSHALS
07/27/2006
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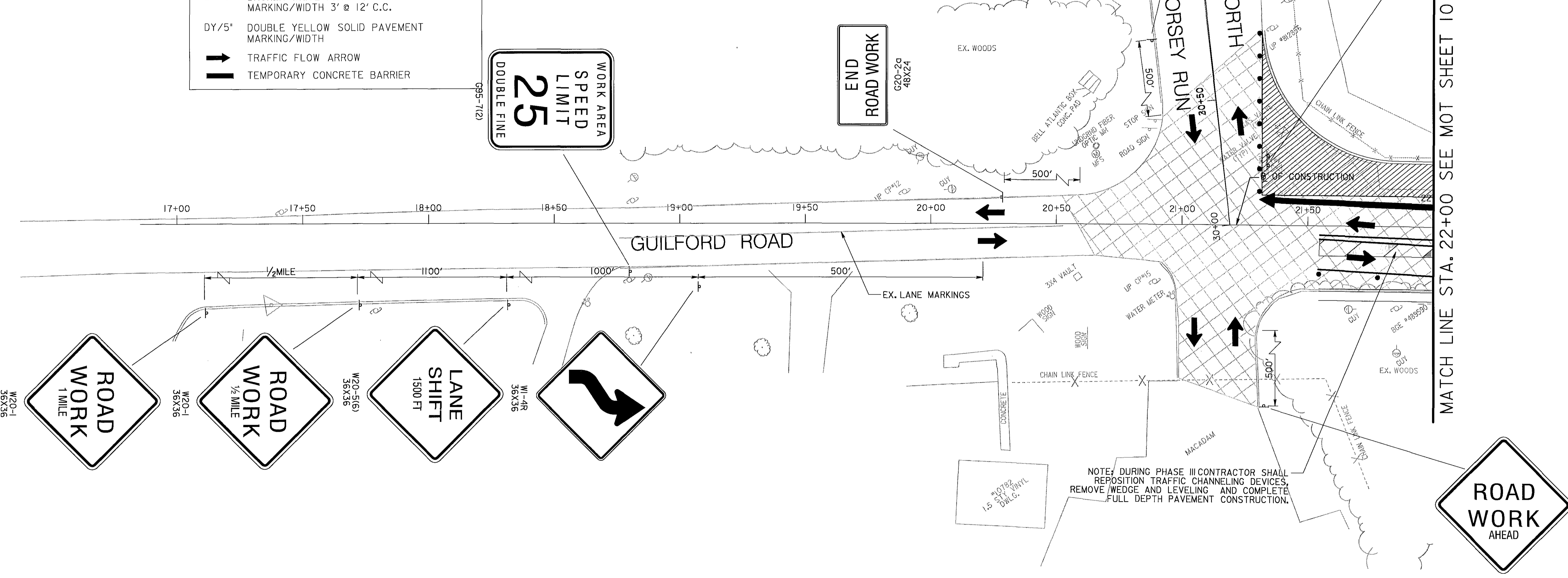
PHASE IA - CONSTRUCTION

LEGEND

- ◀ TYPE E TEMP. T.B. END TREATMENT
- ⊥ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ◊ WEDGE AND LEVEL
- ◻ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬▬ TEMPORARY CONCRETE BARRIER



NOTE: 12' LANES ARE DESIRABLE. 11' LANES MAY BE UNAVOIDABLE DUE TO CUT FILL LINES



- TRAFFIC CONTROL - GENERAL NOTES**
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- CONSTRUCTION SEQUENCE PHASE IA**
WHILE MAINTAINING TRAFFIC ON EXISTING GUILFORD ROAD THE CONTRACTOR SHALL PERFORM THE FOLLOWING:
- AFTER THE COMPLETION OF PHASE I, THE CONTRACTOR SHALL RECONFIGURE THE TRAFFIC CONTROL DEVICES AND REPLACE CONCRETE BARRIERS WITH DROMS, AND PLACE WEDGE AND LEVEL WHERE INDICATED.
- CONSTRUCT THE NORTHERN SECTION OF GUILFORD ROAD FROM STA 21+75 TO STA 32+75
- MAINTAIN TWO-WAY TRAFFIC ON GUILFORD ROAD.
- CONSTRUCT APPROPRIATE DRAINAGE AND UTILITY RELOCATIONS DURING THE PHASED ROADWAY CONSTRUCTION.
- MAINTAIN ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES SHALL BE MAINTAINED DURING CONSTRUCTION.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John J. Van... 8/17/06
DIRECTOR OF PUBLIC WORKS DATE

Paul J. ... 8/17/06
CHIEF, BUREAU OF ENGINEERING DATE

William F. ... 8-8-06
CHIEF, BUREAU OF HIGHWAYS DATE

... 8/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: JMR					
DRN: PKS					
CHK: TCC					
DATE: 8-06	BY	NO.		DATE	

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE IA

CAPITAL PROJECT No. J-4175 AND B-3855

MOT-9

SCALE
1" = 20'

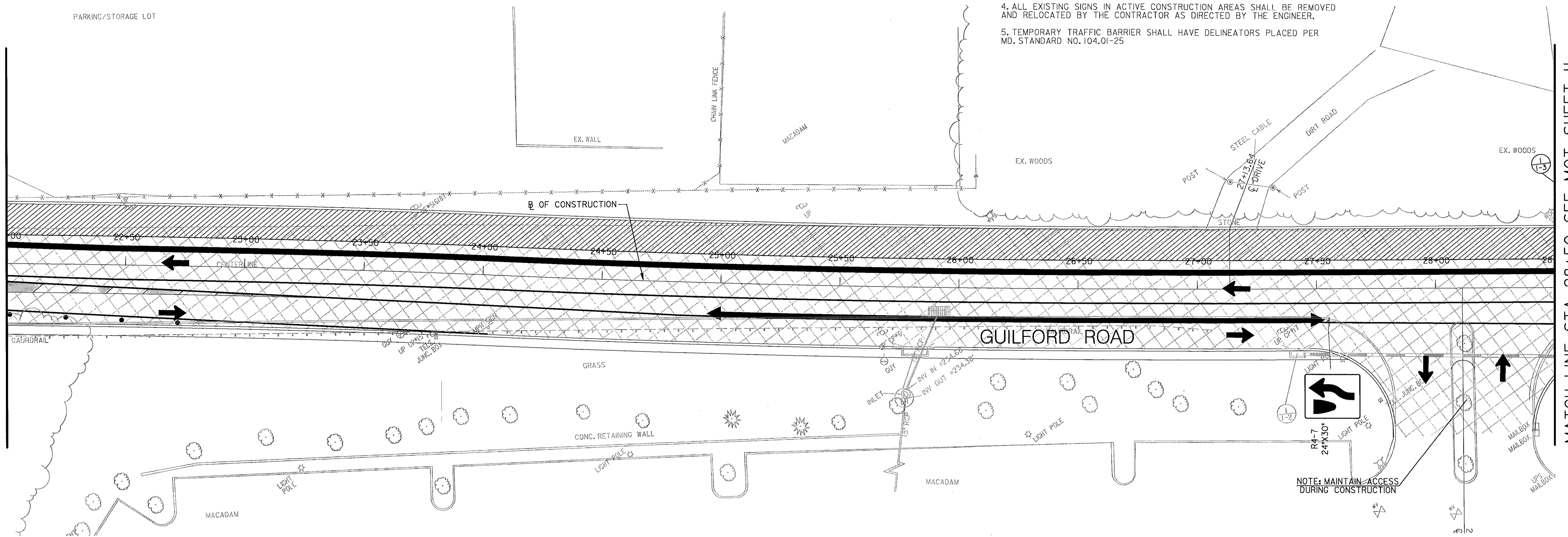
SHEET
67 OF 156

TRAFFIC CONTROL - GENERAL NOTES

1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

MATCH LINE STA. 22+00 SEE MOT SHEET 9

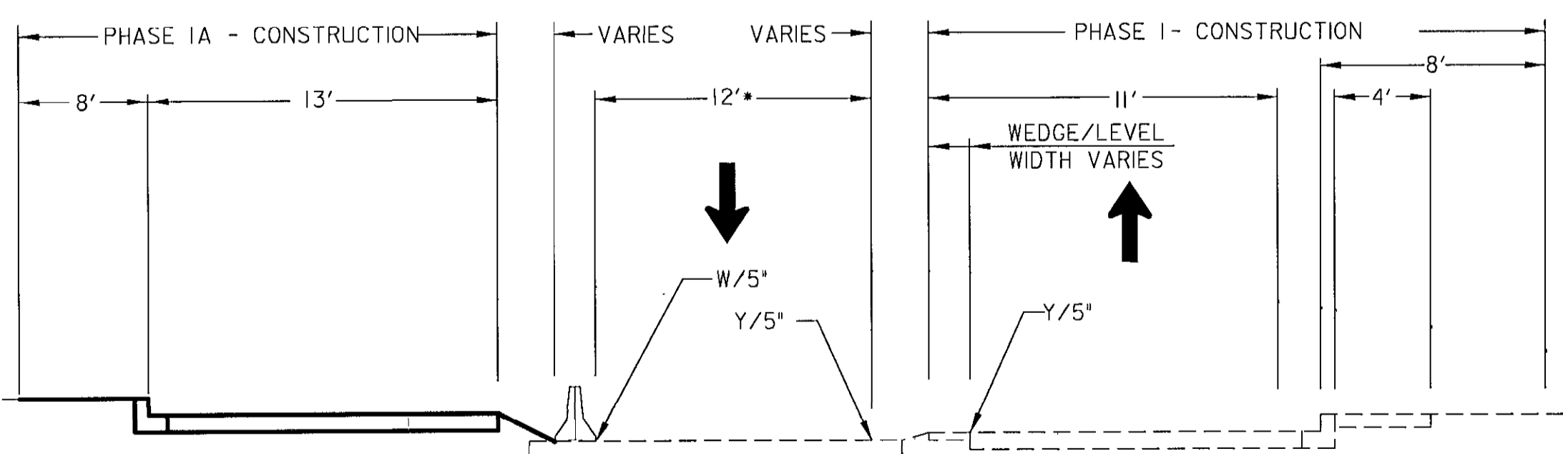
MATCH LINE STA. 28+50 SEE MOT SHEET 11



LEGEND

- ◄ TYPE E TEMP. T.B. END TREATMENT
- SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▧ PERMANENT CONSTRUCTION
- ▩ WEDGE AND LEVEL
- ▩ EXISTING PAVEMENT
- W/5' SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5' SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5' BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5' DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

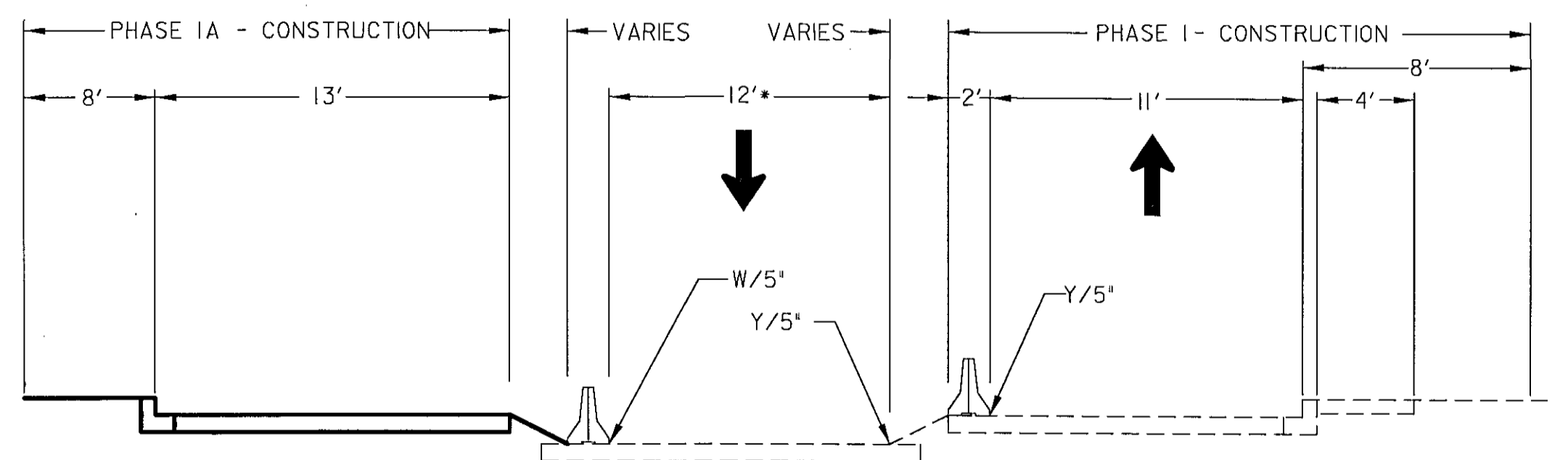
PHASE IA - CONSTRUCTION



CROSS - SECTION
GUILFORD ROAD STA 21+75 TO STA 25+00
NOT TO SCALE

NOTE: 12' LANES ARE DESIRABLE. 11' LANES MAY BE UNAVOIDABLE DUE TO CUT/FILL LINES

PHASE IA - CONSTRUCTION



CROSS - SECTION
GUILFORD ROAD STA 25+50 TO STA 31+00
NOT TO SCALE

NOTE: 12' LANES ARE DESIRABLE. 11' LANES MAY BE UNAVOIDABLE DUE TO CUT/FILL LINES

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Jan M. Ch... 8/7/06
DIRECTOR OF PUBLIC WORKS DATE
William J. ... 8/8/06
CHIEF, BUREAU OF HIGHWAYS DATE

Paul J. ... 8/7/06
CHIEF, BUREAU OF ENGINEERING DATE
Jim ... 8/7/06
CHIEF, DIVISION OF TRANSPORTATION,
SPECIAL PROJECTS DIVISION DATE

GANNETT
FLEMING, INC.
BALTIMORE,
MARYLAND

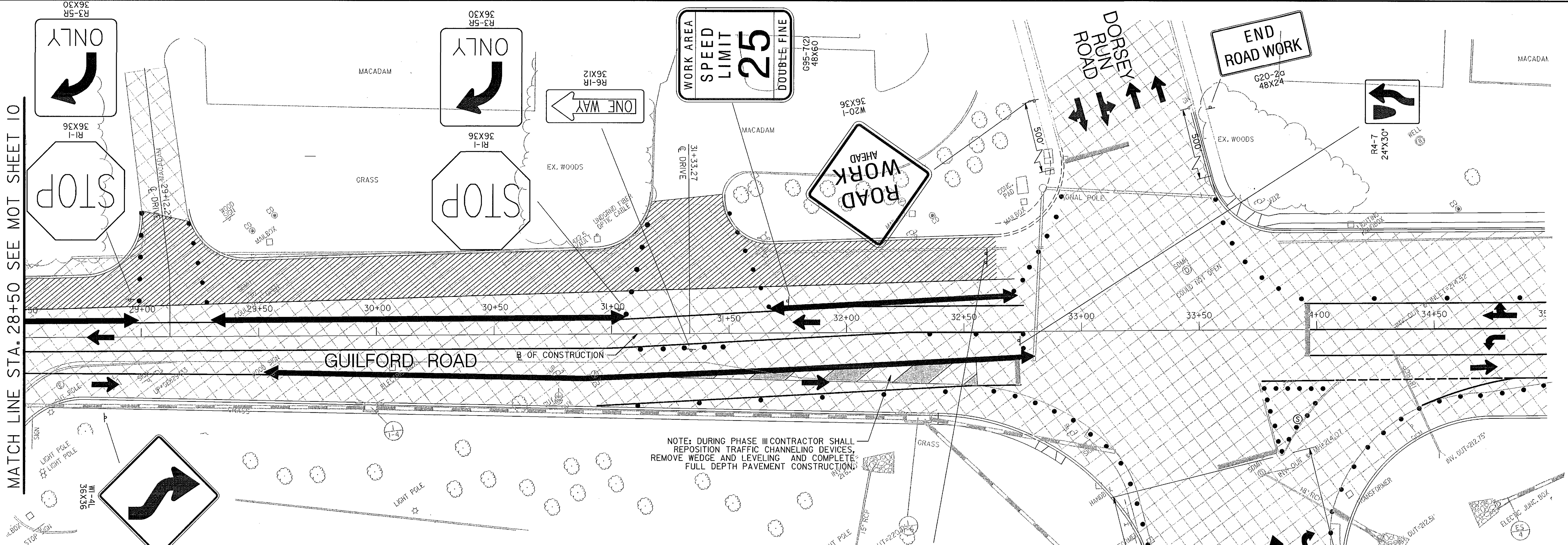


DES: JMR			
DRN: DKS			
CHK: TCC			
DATE: 8-06			
BY	NO.	DATE	

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE IA
CAPITAL PROJECT No. J-4175 AND B-3855

MOT-10
SCALE
1"=20'
SHEET
68 OF 156

MATCH LINE STA. 28+50 SEE MOT SHEET 10



NOTE: DURING PHASE III CONTRACTOR SHALL REPOSITION TRAFFIC CHANNELIZING DEVICES, REMOVE WEDGE AND LEVELING AND COMPLETE FULL DEPTH PAVEMENT CONSTRUCTION.

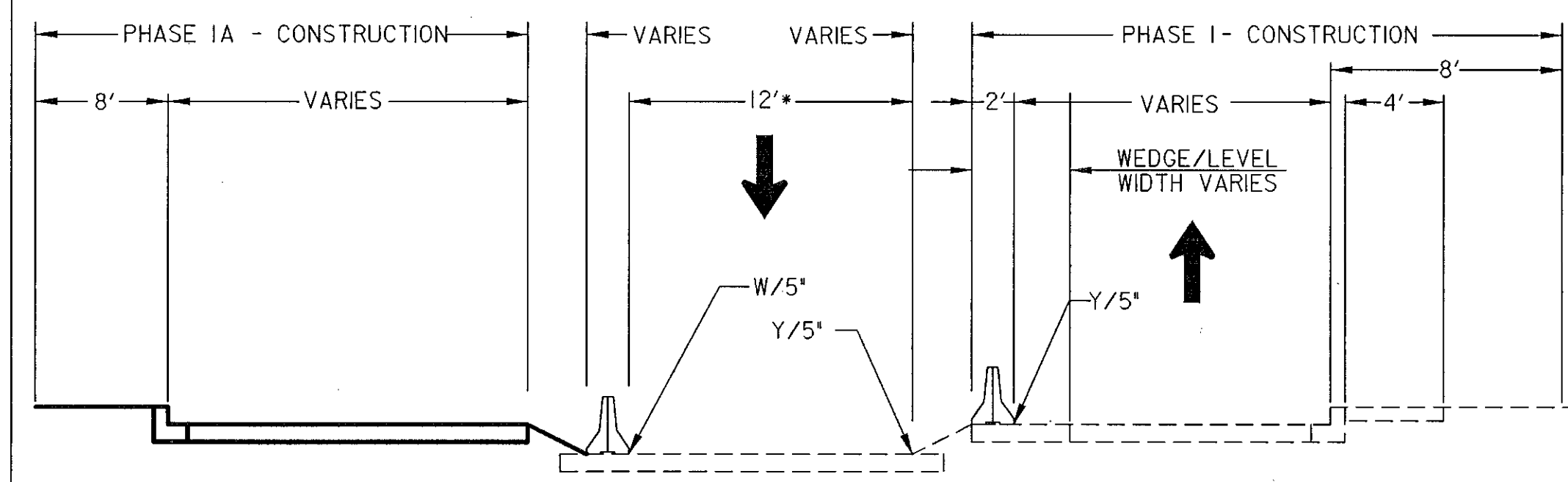
TRAFFIC CONTROL - GENERAL NOTES

1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25
6. FOR PAVEMENT MARKINGS AT THE INTERSECTION, REFER TO TEMPORARY SIGNAL PLAN PHASE IA (MOT-II).

LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- ⊕ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ▧ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

PHASE IA - CONSTRUCTION



NOTE: 12' LANES ARE DESIRABLE. 11' LANES MAY BE UNAVOIDABLE DUE TO CUT FILL LINES

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

William J. Hall 8/8/06
DIRECTOR OF PUBLIC WORKS DATE

Paul J. Johnson 8/17/06
CHIEF, BUREAU OF ENGINEERING DATE

John Stewart 8/17/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



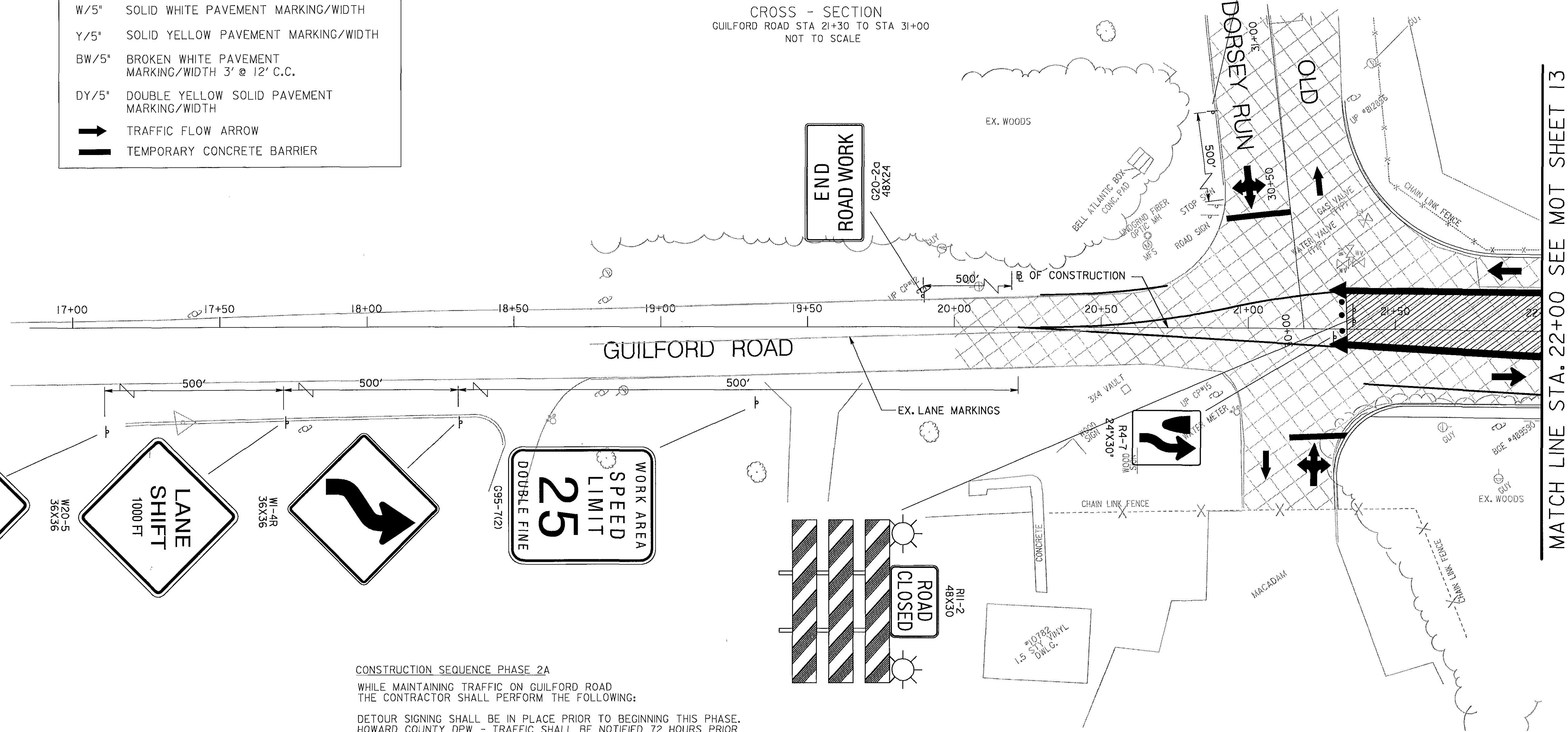
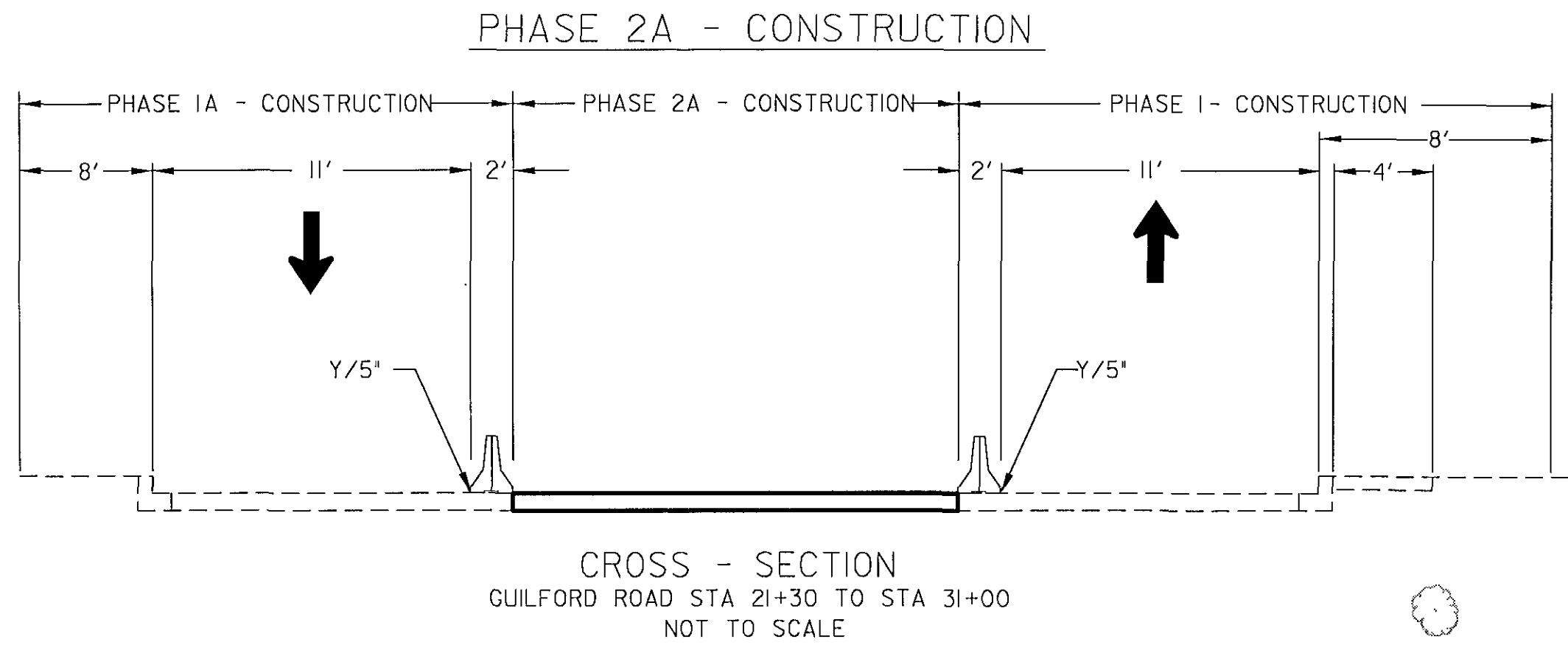
DES: JMR					
DRN: DKS					
CHK: TCC					
DATE: 8-06	BY	NO.		DATE	

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE IA
CAPITAL PROJECT No. J-4175 AND B-3855

MOT-II
SCALE
1" = 20'
SHEET
69 OF 156

FONT: LIBRARY-SHAFFONTS
 LINES: STYLE: LIBRARY-MESHIALS
 08/02/2006
 P:\Projects\Guilford\Geo\Mot\mot1a-1.dgn

LEGEND	
◀	TYPE E TEMP. T.B. END TREATMENT
+	SIGN MOUNTED ON WOOD POST
•	CHANNELIZING DEVICE (DRUMS)
	TEMPORARY PAVEMENT
	PERMANENT CONSTRUCTION
	WEDGE AND LEVEL
	EXISTING PAVEMENT
W/5"	SOLID WHITE PAVEMENT MARKING/WIDTH
Y/5"	SOLID YELLOW PAVEMENT MARKING/WIDTH
BW/5"	BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
DY/5"	DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
➔	TRAFFIC FLOW ARROW
	TEMPORARY CONCRETE BARRIER



CONSTRUCTION SEQUENCE PHASE 2A
 WHILE MAINTAINING TRAFFIC ON GUILFORD ROAD THE CONTRACTOR SHALL PERFORM THE FOLLOWING:
 DETOUR SIGNING SHALL BE IN PLACE PRIOR TO BEGINNING THIS PHASE. HOWARD COUNTY DPW - TRAFFIC SHALL BE NOTIFIED 72 HOURS PRIOR TO DETOUR IMPLEMENTATION. DETOUR SIGNING SHALL FOLLOW THE DESIGNED PLAN UNLESS DIRECTED BY THE ENGINEER.
 AFTER THE COMPLETION OF PHASE 1, THE CONTRACTOR SHALL RECONFIGURE THE TRAFFIC CONTROL DEVICES AND PLACE TEMPORARY PAVEMENT AS SHOWN.
 AT THE BEGINNING OF PHASE 2 THE CONTRACTOR SHALL CONSTRUCT ADEQUATE PAVEMENT AT THE NORTH DORSEY RUN ROAD INTERSECTION TO MAINTAIN FULL ACCESS.
 CONSTRUCT THE CENTER SECTION OF GUILFORD ROAD FROM STA 21+30 TO STA 32+40
 THE CONTRACTOR WILL BE LIMITED TO CONSTRUCTING SECTIONS OF ROADWAY AS SHOWN.
 MAINTAIN RIGHT IN AND RIGHT OUT ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES DURING CONSTRUCTION (SEE DETOUR PLAN FOR DETAILS.)
 AFTER PHASE 2A CONSTRUCTION IS COMPLETE, THE BARRIER WILL BE REMOVED AND REPLACED BY DRUMS TO DIRECT TRAFFIC AND ALLOW ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES.

- TRAFFIC CONTROL - GENERAL NOTES**
- VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
 - ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
 - NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
 - ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 - TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Ray Stovall 8/17/06
 DIRECTOR OF PUBLIC WORKS DATE

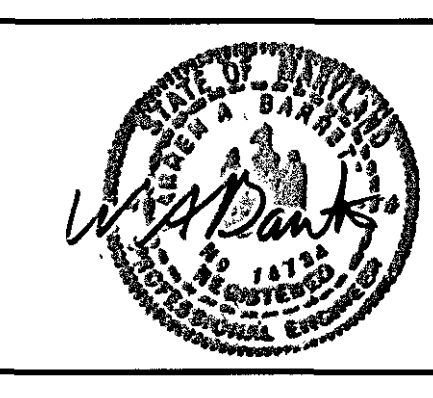
Paul J. Pagan 8/17/06
 CHIEF, BUREAU OF ENGINEERING DATE

Wisham Smith 8/20/06
 CHIEF, BUREAU OF HIGHWAYS DATE

Jay Stovall 8/17/06
 CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: JMR				
DRN: DKS				
CHK: TCC				
DATE: 8-06				
BY	NO.			DATE

GUILFORD ROAD IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLANS PHASE 2A

CAPITAL PROJECT No. J-4175 AND B-3855

MOT-12

SCALE
 1" = 20'

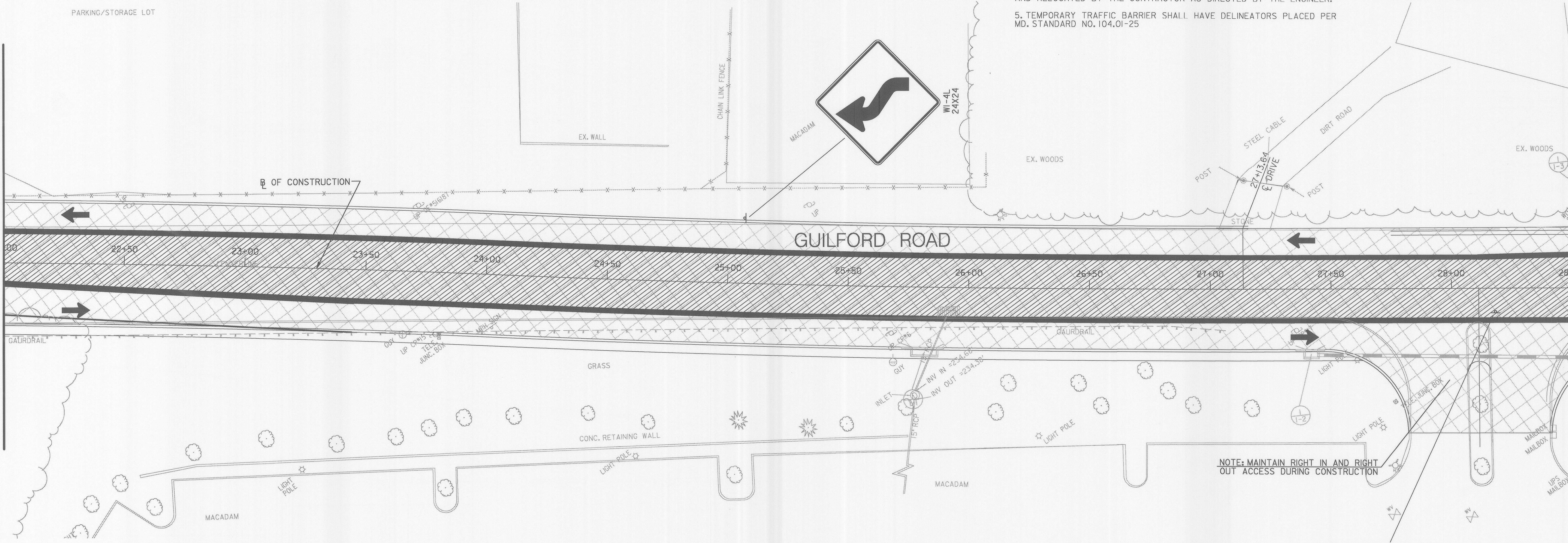
SHEET
 20 OF 156

TRAFFIC CONTROL - GENERAL NOTES

1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

MATCH LINE STA. 22+00 SEE MOT SHEET 12

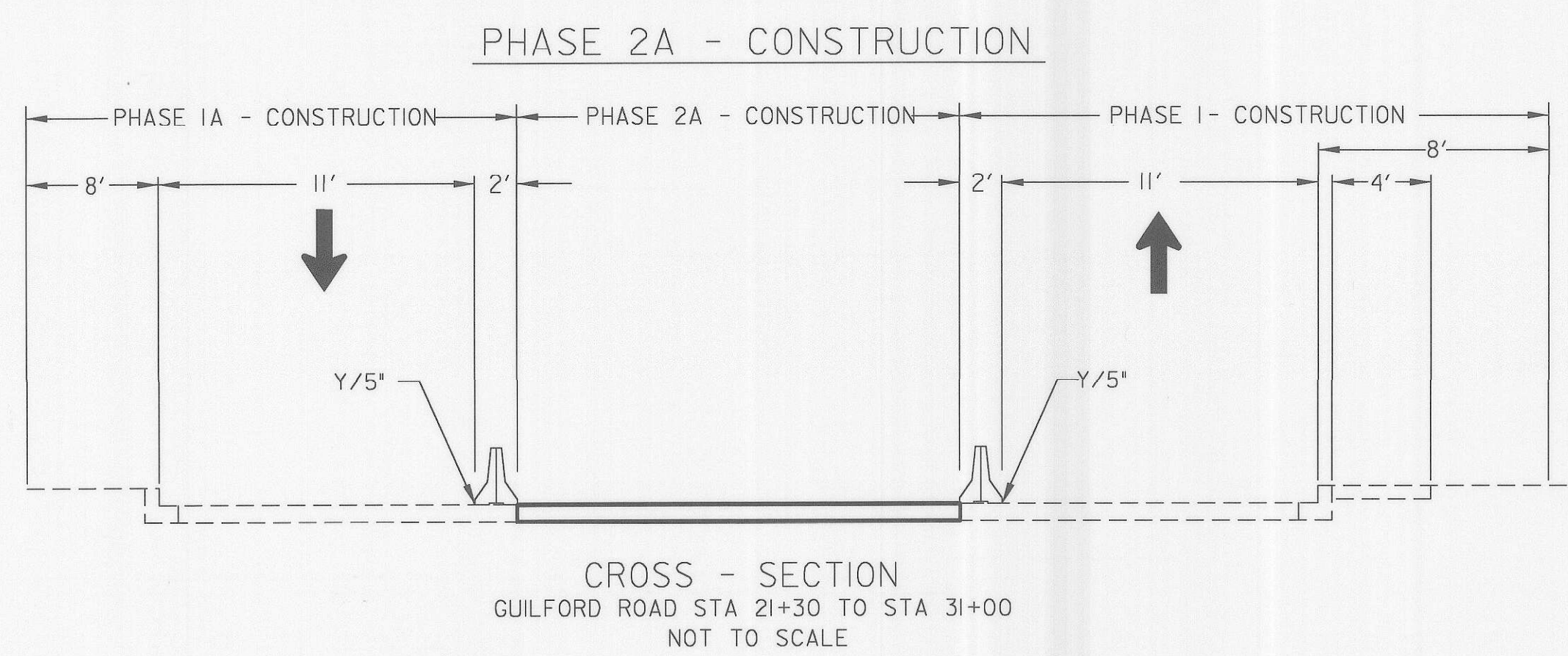
MATCH LINE STA. 28+50 SEE MOT SHEET 14A



NOTE: MAINTAIN RIGHT IN AND RIGHT OUT ACCESS DURING CONSTRUCTION



LEGEND	
	TYPE E TEMP. T.B. END TREATMENT
	SIGN MOUNTED ON WOOD POST
	CHANNELIZING DEVICE (DRUMS)
	TEMPORARY PAVEMENT
	PERMANENT CONSTRUCTION
	WEDGE AND LEVEL
	EXISTING PAVEMENT
W/5"	SOLID WHITE PAVEMENT MARKING/WIDTH
Y/5"	SOLID YELLOW PAVEMENT MARKING/WIDTH
BW/5"	BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
DY/5"	DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
	TRAFFIC FLOW ARROW
	TEMPORARY CONCRETE BARRIER



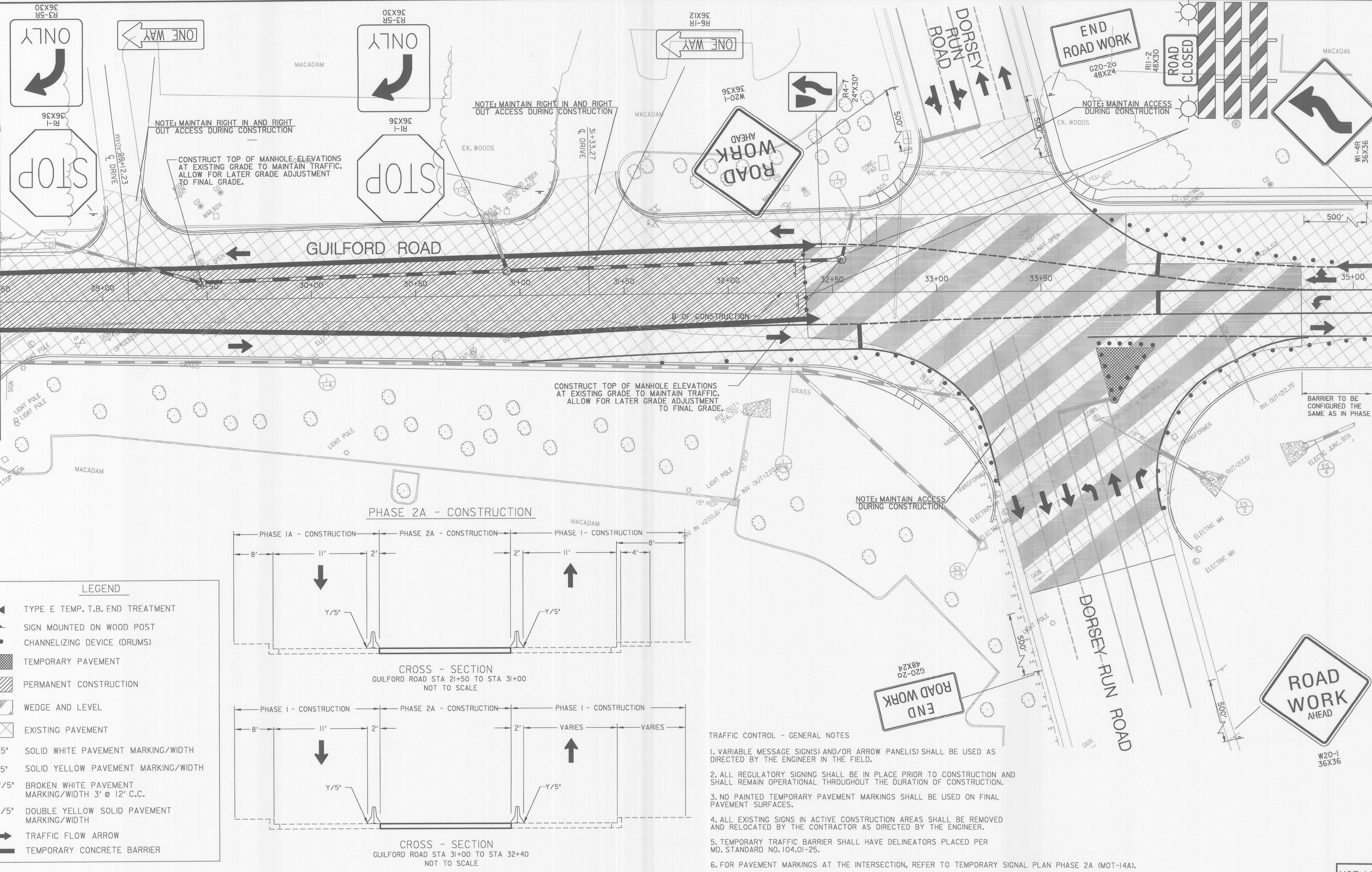
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LINES: STYLE: LIBRARY-MCSHALS
07/27/2006
hp:\trcm\guilford\cvgoo\mot\mot12-13.dgn

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC. BALTIMORE, MARYLAND
Director of Public Works <i>William Z. Mahoney</i> DATE: 8-8-06	Chief, Bureau of Engineering <i>Richard P. Pappas</i> DATE: 8/7/06	Chief, Division of Transportation, Special Projects Division <i>John Stentz</i> DATE: 8/7/06

DES: JMR					
DRN: DKS					
CHK: TCC					
DATE: 8-06	BY	NO.		DATE	

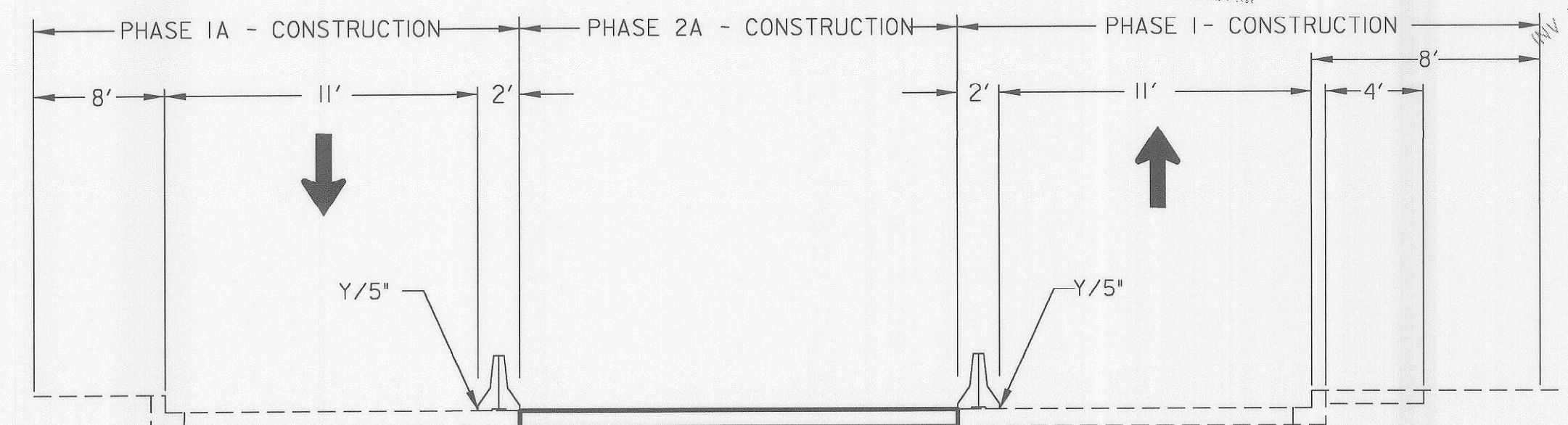
GUILFORD ROAD IMPROVEMENTS MAINTENANCE OF TRAFFIC PLANS PHASE 2A		MOT-13 SCALE 1" = 20' SHEET 21 OF 156
CAPITAL PROJECT No. J-4175 AND B-3855		

MATCH LINE STA. 28+50 SEE MOT SHEET 13

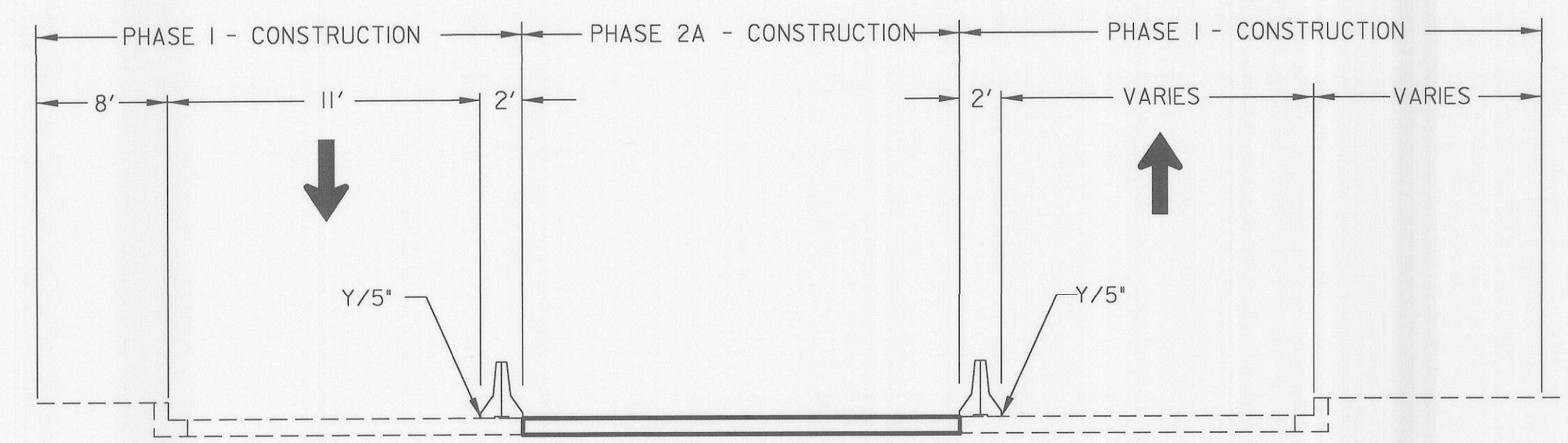


LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- ⊥ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ▧ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER



CROSS - SECTION
GUILFORD ROAD STA 21+50 TO STA 31+00
NOT TO SCALE



CROSS - SECTION
GUILFORD ROAD STA 31+00 TO STA 32+40
NOT TO SCALE

- TRAFFIC CONTROL - GENERAL NOTES**
1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
 2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
 3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
 4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25.
 6. FOR PAVEMENT MARKINGS AT THE INTERSECTION, REFER TO TEMPORARY SIGNAL PLAN PHASE 2A (MOT-14A).

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Janet Lee 5/16/06
DIRECTOR OF PUBLIC WORKS DATE

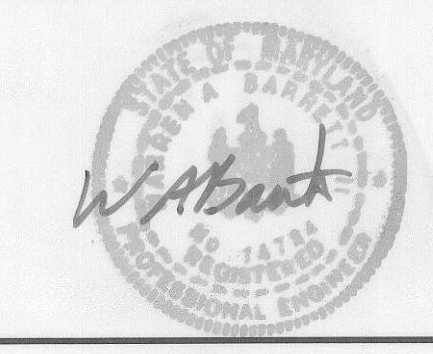
Robert D. Johnson 5/17/06
CHIEF, BUREAU OF ENGINEERING DATE

W. J. ... 8-8-06
CHIEF, BUREAU OF HIGHWAYS DATE

... 8/1/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

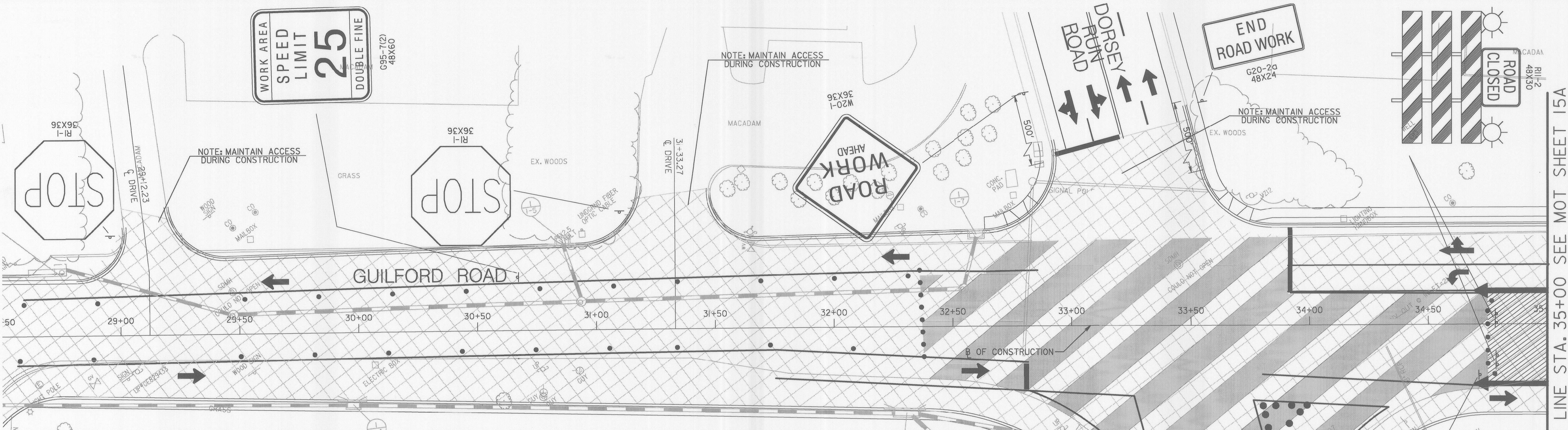
BALTIMORE, MARYLAND



DES: JMR				
DRN: DKS				
CHK: TCC				
DATE: 8-06				
BY	NO.			DATE

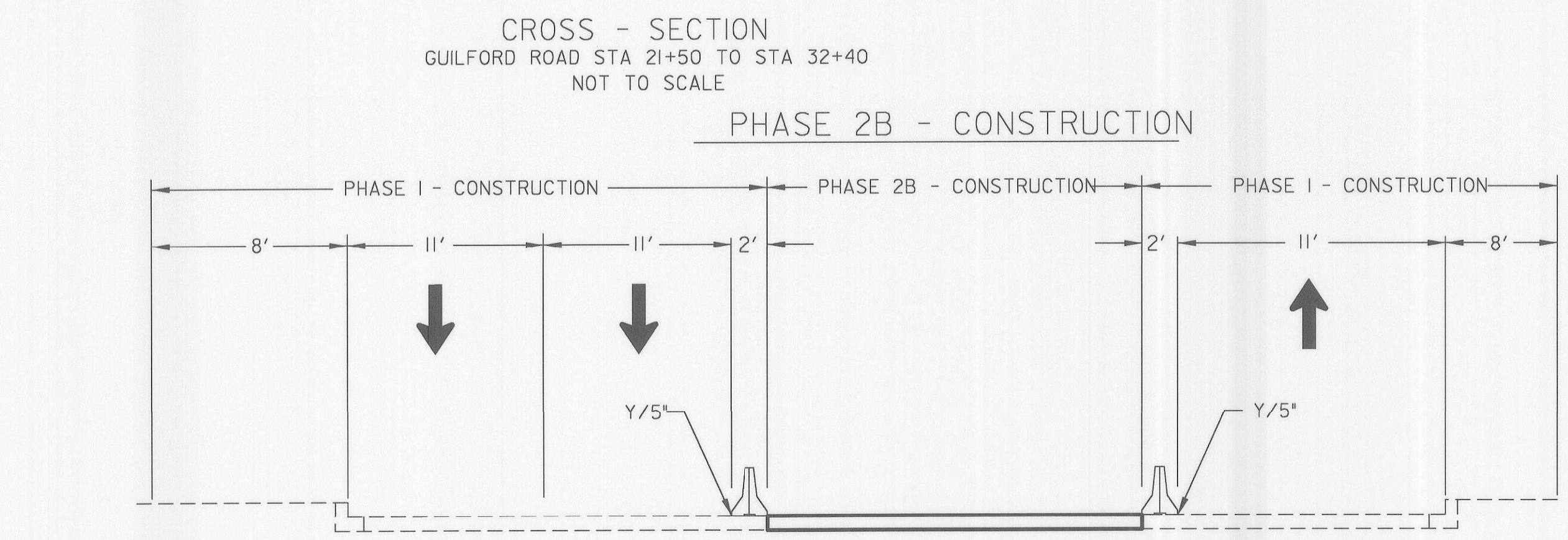
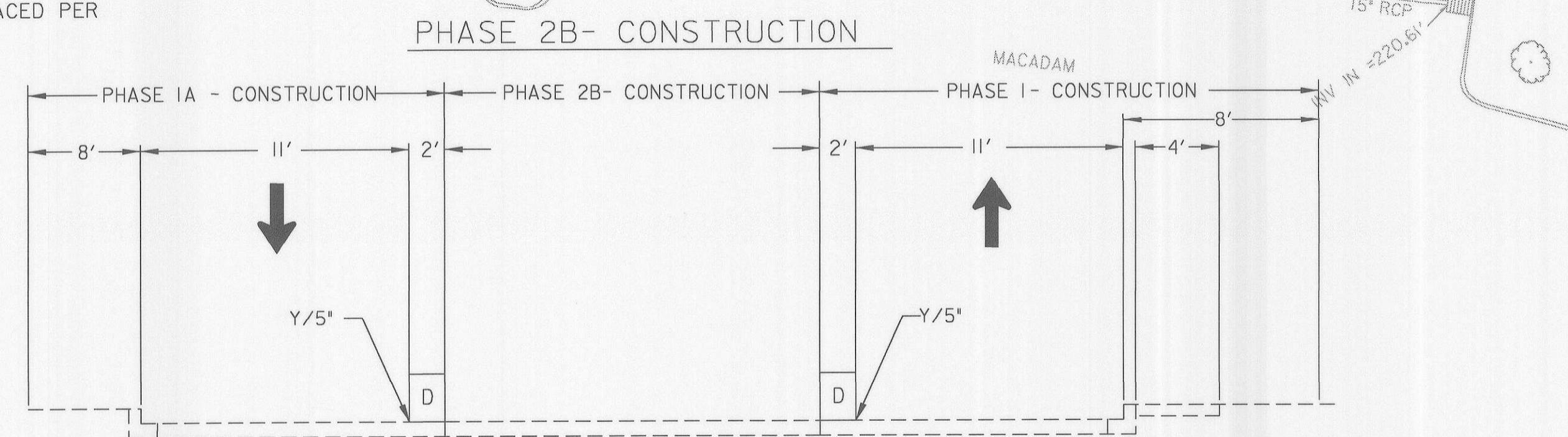
GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE 2A
CAPITAL PROJECT No. J-4175 AND B-3855

MOT-14A
SCALE
1" = 20'
SHEET
22 OF 156



TRAFFIC CONTROL - GENERAL NOTES

1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25.
6. FOR PAVEMENT MARKINGS AT THE INTERSECTION, REFER TO TEMPORARY SIGNAL PLAN PHASE 2B (MOT-14B).



LEGEND	
	TYPE E TEMP. T.B. END TREATMENT
	SIGN MOUNTED ON WOOD POST
	CHANNELIZING DEVICE (DRUMS)
	TEMPORARY PAVEMENT
	PERMANENT CONSTRUCTION
	WEDGE AND LEVEL
	EXISTING PAVEMENT
W/5"	SOLID WHITE PAVEMENT MARKING/WIDTH
Y/5"	SOLID YELLOW PAVEMENT MARKING/WIDTH
BW/5"	BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12" C.C.
DY/5"	DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
	TRAFFIC FLOW ARROW
	TEMPORARY CONCRETE BARRIER

CONSTRUCTION SEQUENCE PHASE 2B
 WHILE MAINTAINING TRAFFIC ON GUILFORD ROAD THE CONTRACTOR SHALL PERFORM THE FOLLOWING:
 AFTER THE COMPLETION OF PHASE I, THE CONTRACTOR SHALL RECONFIGURE THE TRAFFIC CONTROL DEVICES AND PLACE TEMPORARY PAVEMENT AS SHOWN.
 CONSTRUCT WEDGE AND LEVEL AS SHOWN DURING NON PEAK HOURS.
 CONSTRUCT THE CENTER SECTION OF GUILFORD ROAD FROM STA 32+40 TO STA 40+75
 THE CONTRACTOR WILL BE LIMITED TO CONSTRUCTING SECTIONS OF ROADWAY AS SHOWN.
 MAINTAIN RIGHT IN AND RIGHT OUT ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES WITHIN THE CONSTRUCTION AREA.
 AFTER PHASE 2B CONSTRUCTION IS COMPLETE, THE BARRIER WILL BE REMOVED AND REPLACED BY DRUMS TO DIRECT TRAFFIC AND ALLOW ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES.

MATCH LINE STA. 35+00 SEE MOT SHEET 15A

FONT: LIBRARY=SHAFONTS
 LINESTYLE: LIBRARY=MDSHALS
 07/27/2006
 P:\AT\gulford\cvg\geo\m\m\2-14b.dgn

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC.	
	DATE: 8-8-06		DATE: 8/7/06
DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
	DATE: 8-8-06		DATE: 8/7/06
CHIEF, BUREAU OF HIGHWAYS	DATE	CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION	DATE



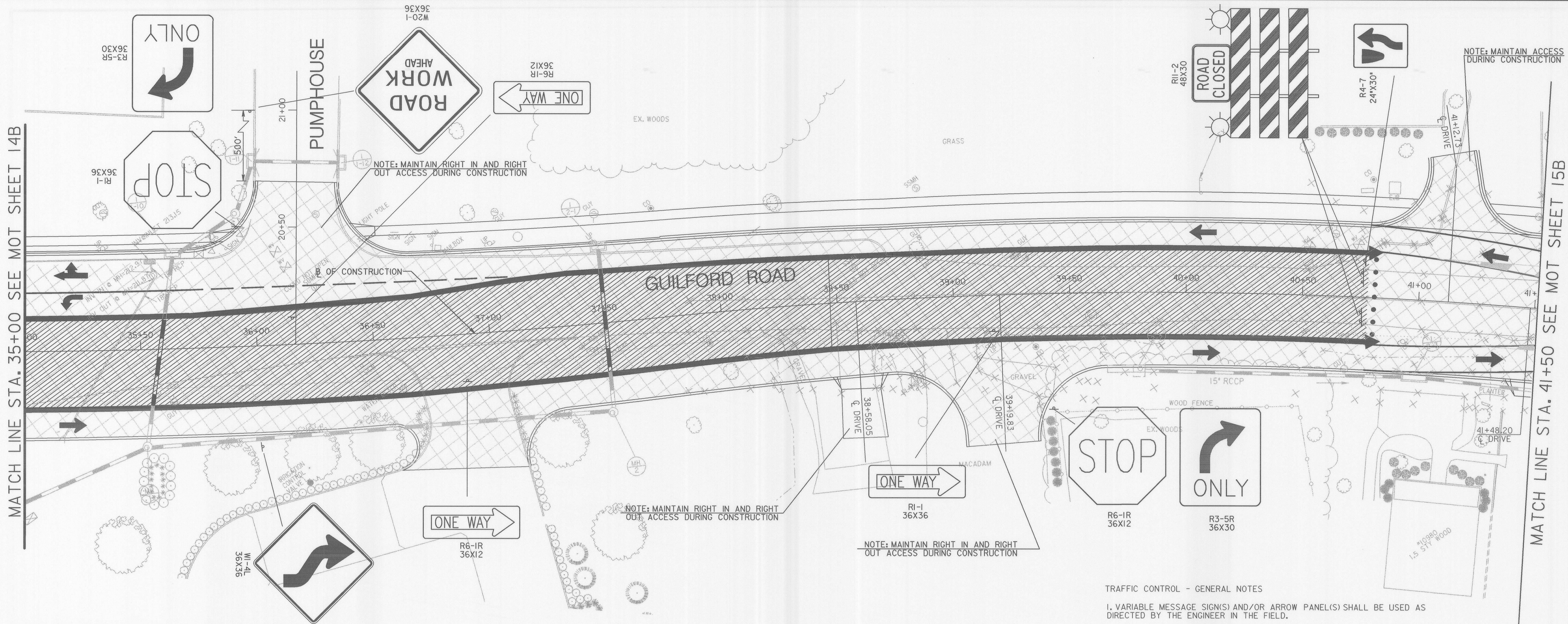
DES: JAR					
DRN: DKS					
CHK: JCC					
DATE: 8-06					
BY	NO.				DATE

GUILFORD ROAD IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLANS PHASE 2B
 CAPITAL PROJECT No. J-4175 AND B-3855

MOT-14B
 SCALE
 1" = 20'
 SHEET
 13 OF 156

MATCH LINE STA. 35+00 SEE MOT SHEET 14B

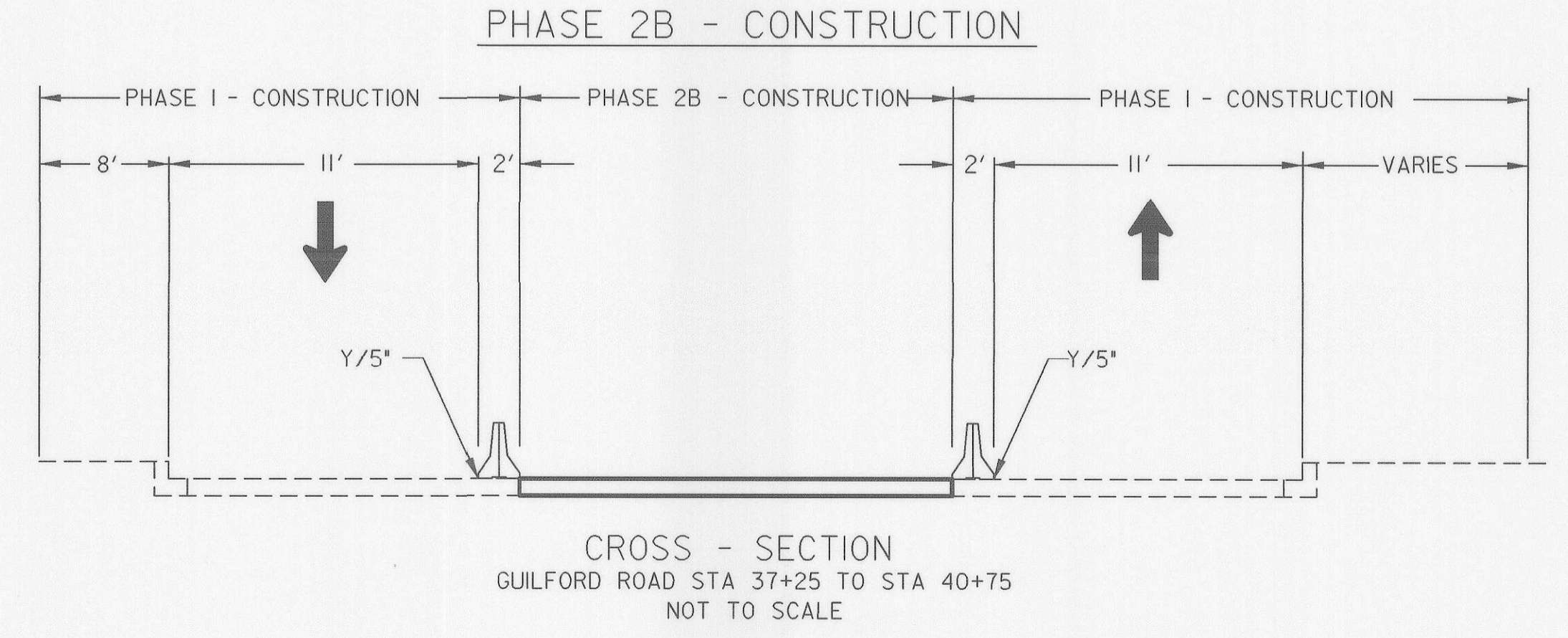
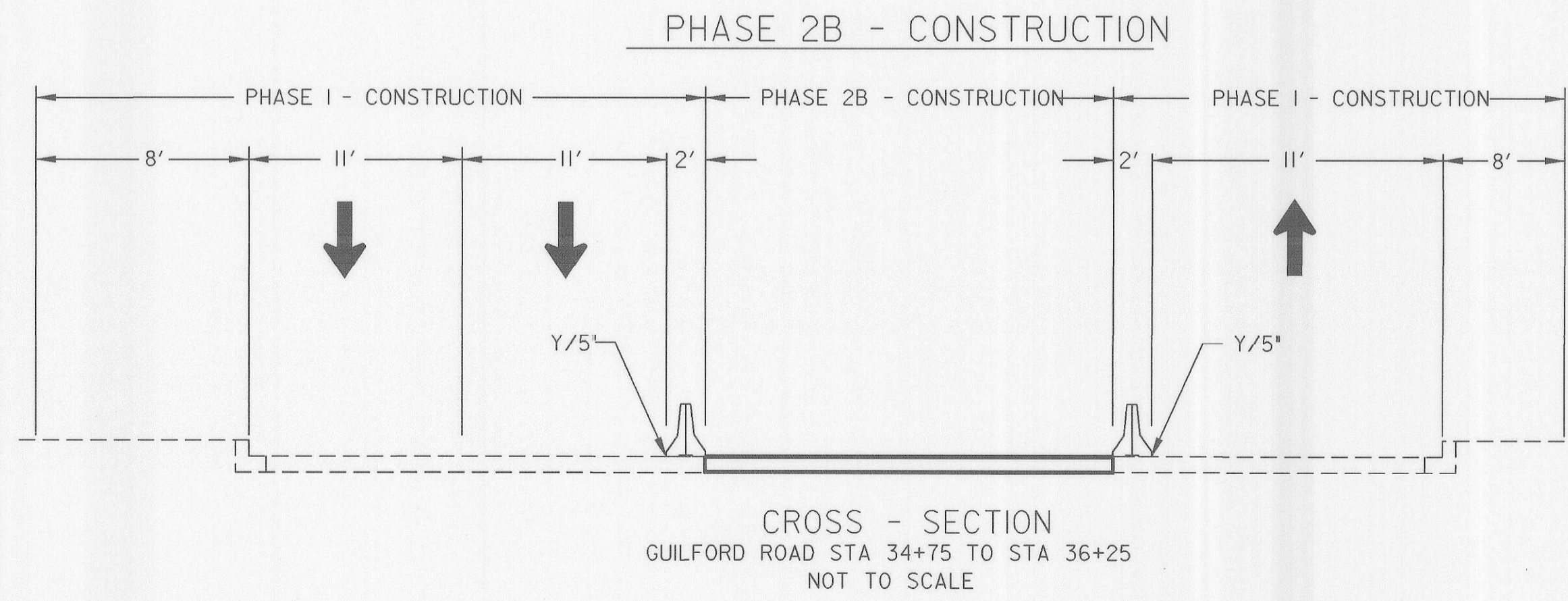
MATCH LINE STA. 41+50 SEE MOT SHEET 15B



- TRAFFIC CONTROL - GENERAL NOTES
1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
 2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
 3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
 4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

LEGEND

- ◀ TYPE E TEMP. T.B. END TREATMENT
- + SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ▧ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

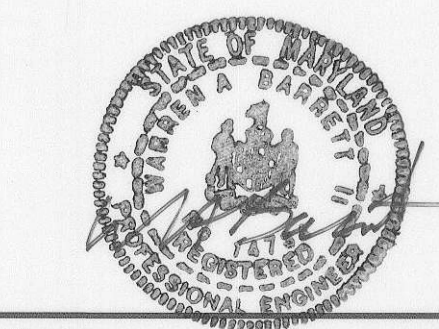
William F. Marshall 8/8/06
DIRECTOR OF PUBLIC WORKS DATE
CHIEF, BUREAU OF HIGHWAYS

Paul J. Larson 5/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Jan Stewart 8/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: JME					
DRN: DKS					
CHK: TCC					
DATE: 8-06	BY	NO.			DATE

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE 2B
CAPITAL PROJECT No. J-4175 AND B-3855

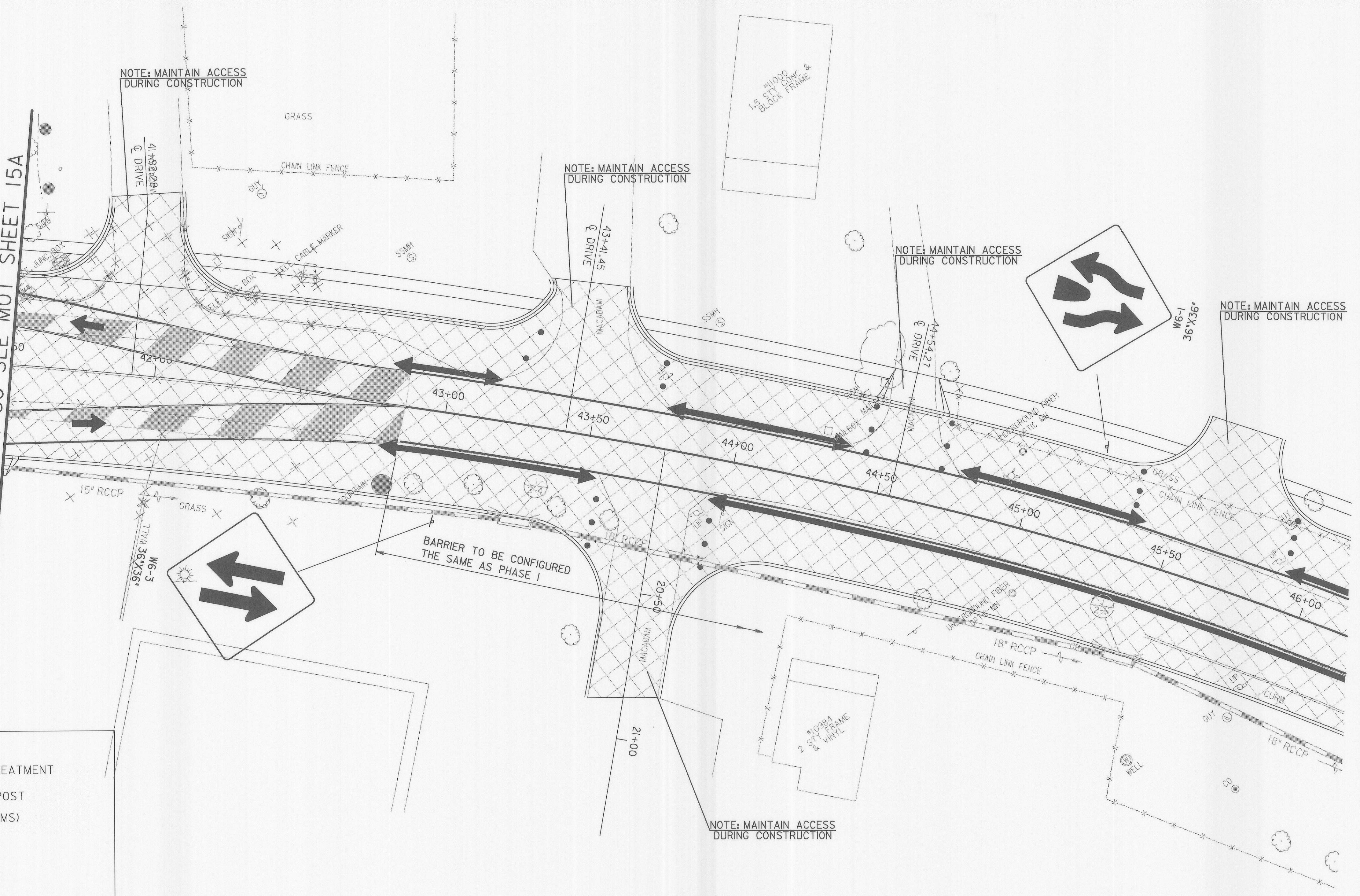
MOT-15A

SCALE
1" = 20'

SHEET
74 OF 156

FONT: LIBRARY-SHAFFONTS
C:\02\7206 LIBRARY-SHAFFONTS
R:\tr\con\guilford\geo\mot\mot2-15a.dgn

MATCH LINE STA. 41+50 SEE MOT SHEET 15A



LEGEND	
	TYPE E TEMP. T.B. END TREATMENT
	SIGN MOUNTED ON WOOD POST
	CHANNELIZING DEVICE (DRUMS)
	TEMPORARY PAVEMENT
	PERMANENT CONSTRUCTION
	WEDGE AND LEVEL
	EXISTING PAVEMENT
W/5"	SOLID WHITE PAVEMENT MARKING/WIDTH
Y/5"	SOLID YELLOW PAVEMENT MARKING/WIDTH
BW/5"	BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
DY/5"	DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
	TRAFFIC FLOW ARROW
	TEMPORARY CONCRETE BARRIER

NOT TO SCALE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

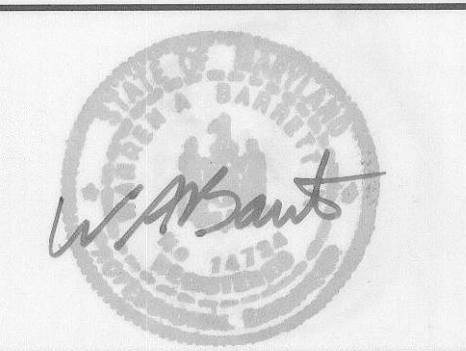
John J. ... 8/17/06
DIRECTOR OF PUBLIC WORKS DATE

Richard ... 8/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Jan ... 8/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: JMR				
DRN: DKS				
CHK: TCC				
DATE: 8-06				
BY	NO.			DATE

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE 2B

CAPITAL PROJECT No. J-4175 AND B-3855

MOT-15B

SCALE
1"=20'

SHEET
15 OF 15B



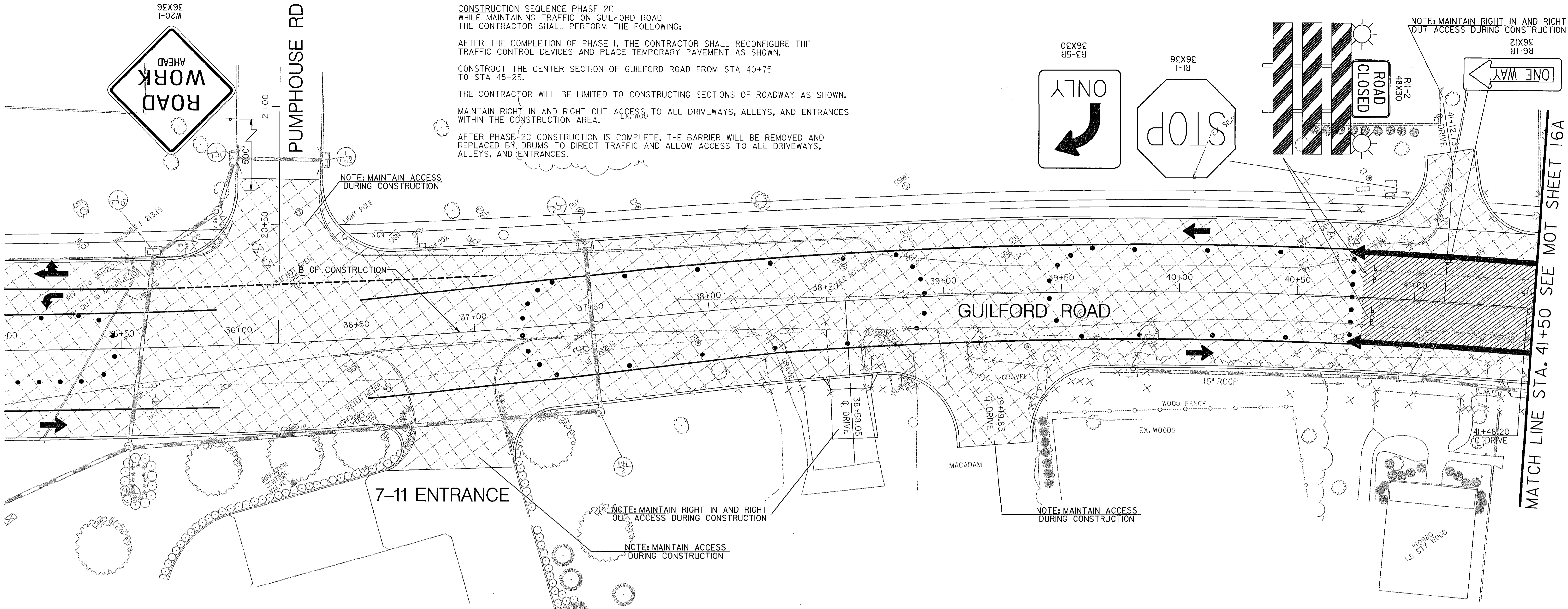
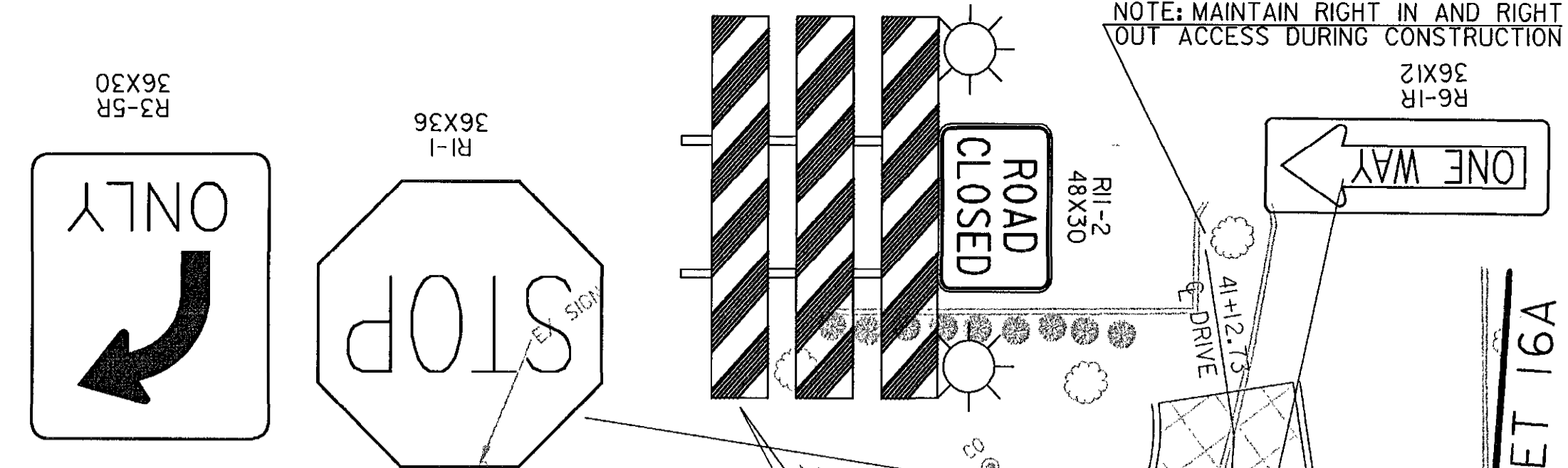
CONSTRUCTION SEQUENCE PHASE 2C
 WHILE MAINTAINING TRAFFIC ON GUILFORD ROAD
 THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

AFTER THE COMPLETION OF PHASE I, THE CONTRACTOR SHALL RECONFIGURE THE TRAFFIC CONTROL DEVICES AND PLACE TEMPORARY PAVEMENT AS SHOWN.

CONSTRUCT THE CENTER SECTION OF GUILFORD ROAD FROM STA 40+75 TO STA 45+25.

THE CONTRACTOR WILL BE LIMITED TO CONSTRUCTING SECTIONS OF ROADWAY AS SHOWN. MAINTAIN RIGHT IN AND RIGHT OUT ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES WITHIN THE CONSTRUCTION AREA.

AFTER PHASE 2C CONSTRUCTION IS COMPLETE, THE BARRIER WILL BE REMOVED AND REPLACED BY DRUMS TO DIRECT TRAFFIC AND ALLOW ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES.



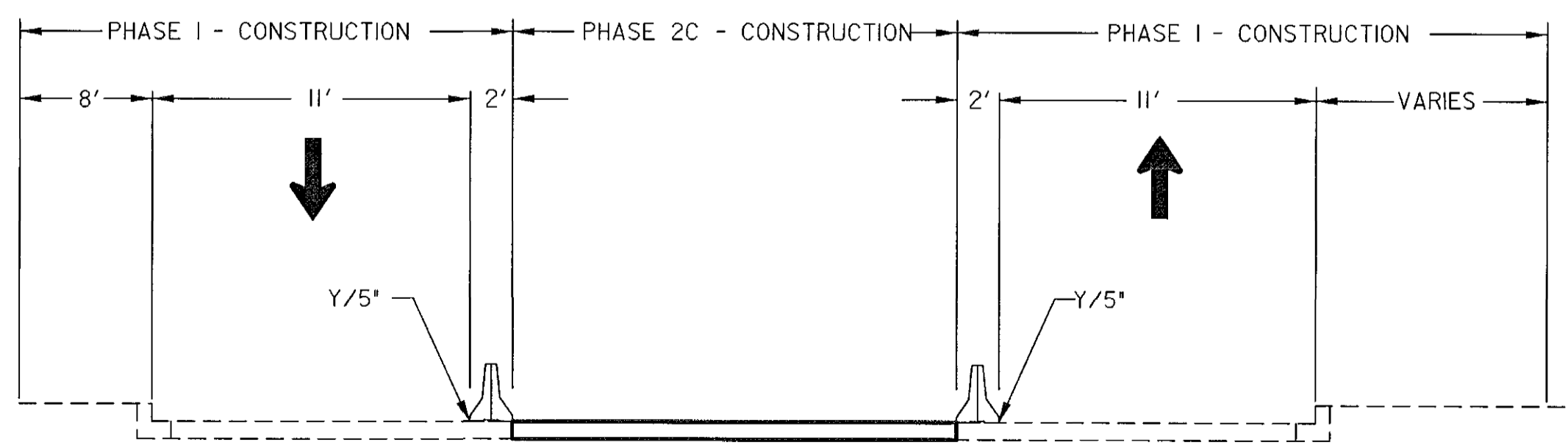
MATCH LINE STA. 41+50 SEE MOT SHEET 16A

LEGEND

- ◄ TYPE E TEMP. T.B. END TREATMENT
- SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▧ PERMANENT CONSTRUCTION
- ▩ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

- TRAFFIC CONTROL - GENERAL NOTES**
1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
 2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
 3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
 4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

PHASE 2C - CONSTRUCTION



CROSS - SECTION
 GUILFORD ROAD STA 40+75 TO STA 45+25
 NOT TO SCALE

FONT: LIBRARY-SHAFFONTS
 LINES: LIBRARY-MESHALS
 08/02/2006
 P:\Tran\Guilford\Geo\mot15c.dgn

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

James A. Van... 8/7/06
 DIRECTOR OF PUBLIC WORKS DATE

Paul W. Peterson 8/7/06
 CHIEF, BUREAU OF ENGINEERING DATE

William F. Mah... 8-8-06
 CHIEF, BUREAU OF HIGHWAYS DATE

John St... 8/7/06
 CHIEF, DIVISION OF TRANSPORTATION,
 SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

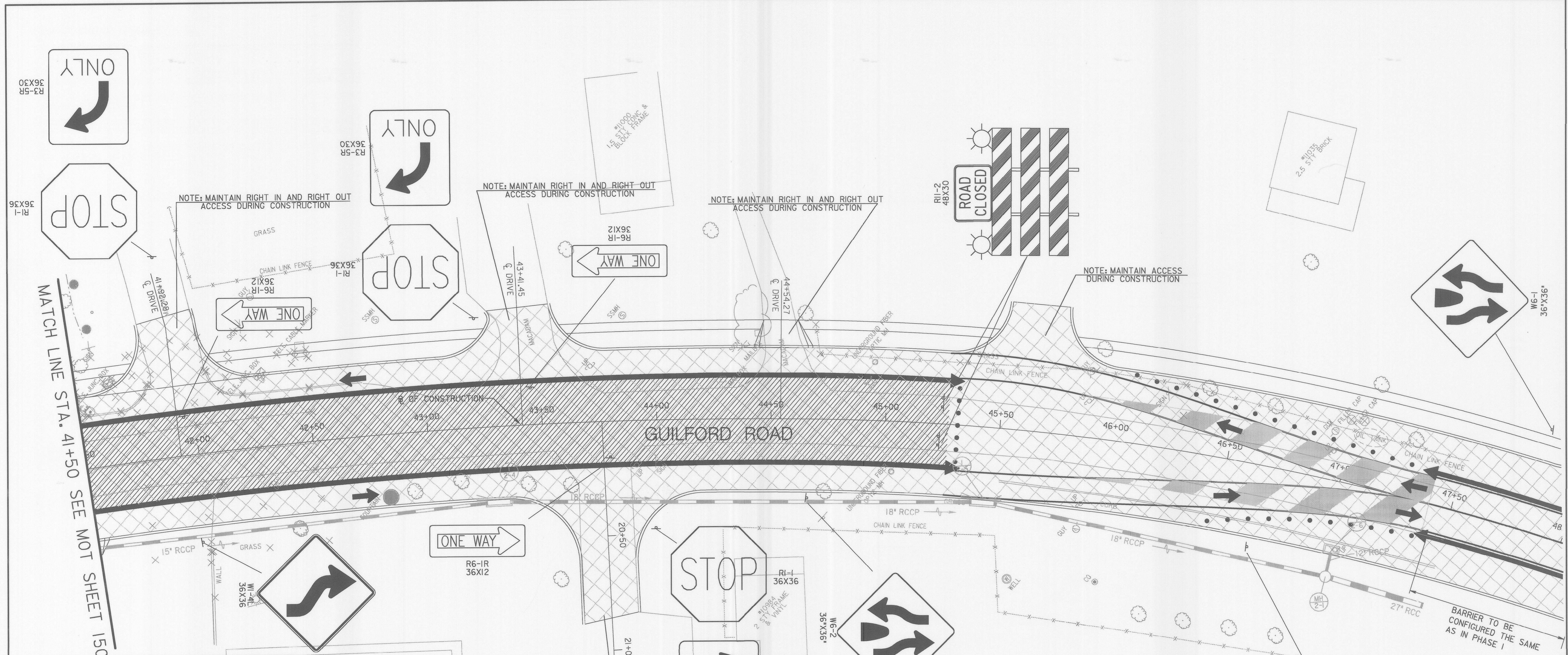
BALTIMORE, MARYLAND



DES: JMR					
DRN: DKS					
CHK: TCC					
DATE: 8-06	BY	NO.		DATE	

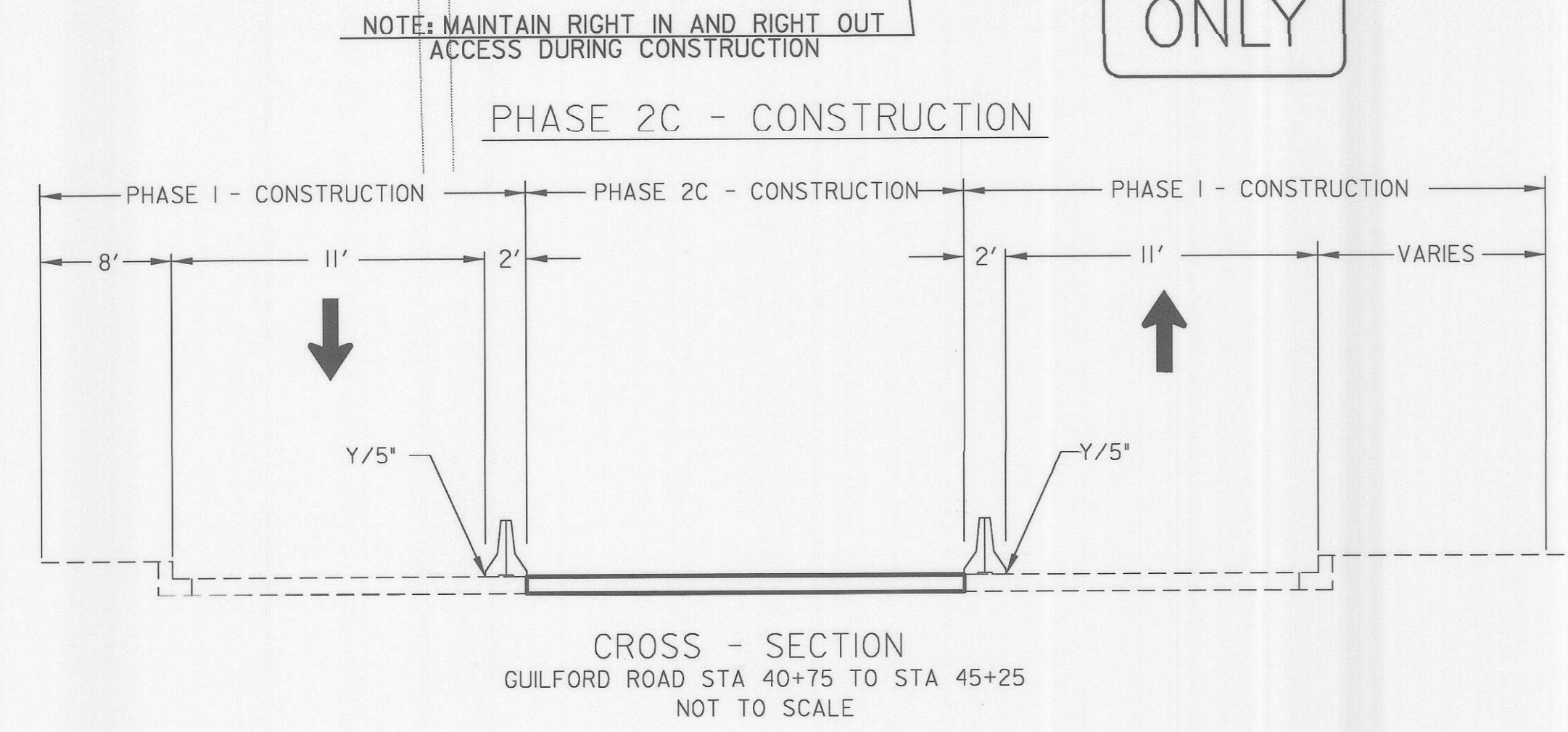
GUILFORD ROAD IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLANS PHASE 2C
 CAPITAL PROJECT No. J-4175 AND B-3855

MOT-15C
 SCALE
 1" = 20'
 SHEET
 76 OF 156



LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- ⊥ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ◊ WEDGE AND LEVEL
- ▧ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER



- TRAFFIC CONTROL - GENERAL NOTES**
- VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
 - ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
 - NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
 - ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 - TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

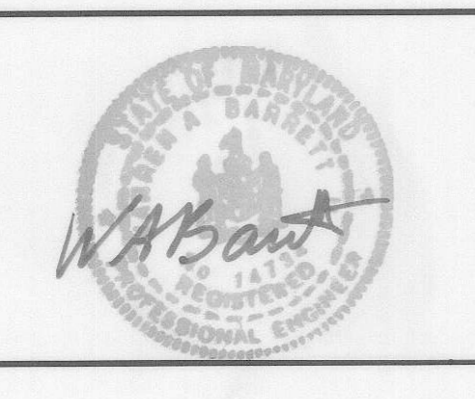
FONT: LIBRARY-SHAFFONTS
 LINESTYLE: LIBRARY-MDSHALS
 07/27/2006
 h:\fran\guil for d\geo\mot16a.dgn

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James W. ... 8/16/06
 DIRECTOR OF PUBLIC WORKS DATE
Paul J. ... 8/17/06
 CHIEF, BUREAU OF ENGINEERING DATE
W. ... 8-8-06
 CHIEF, BUREAU OF HIGHWAYS DATE
... 8/7/06
 CHIEF, DIVISION OF TRANSPORTATION, DATE
 SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



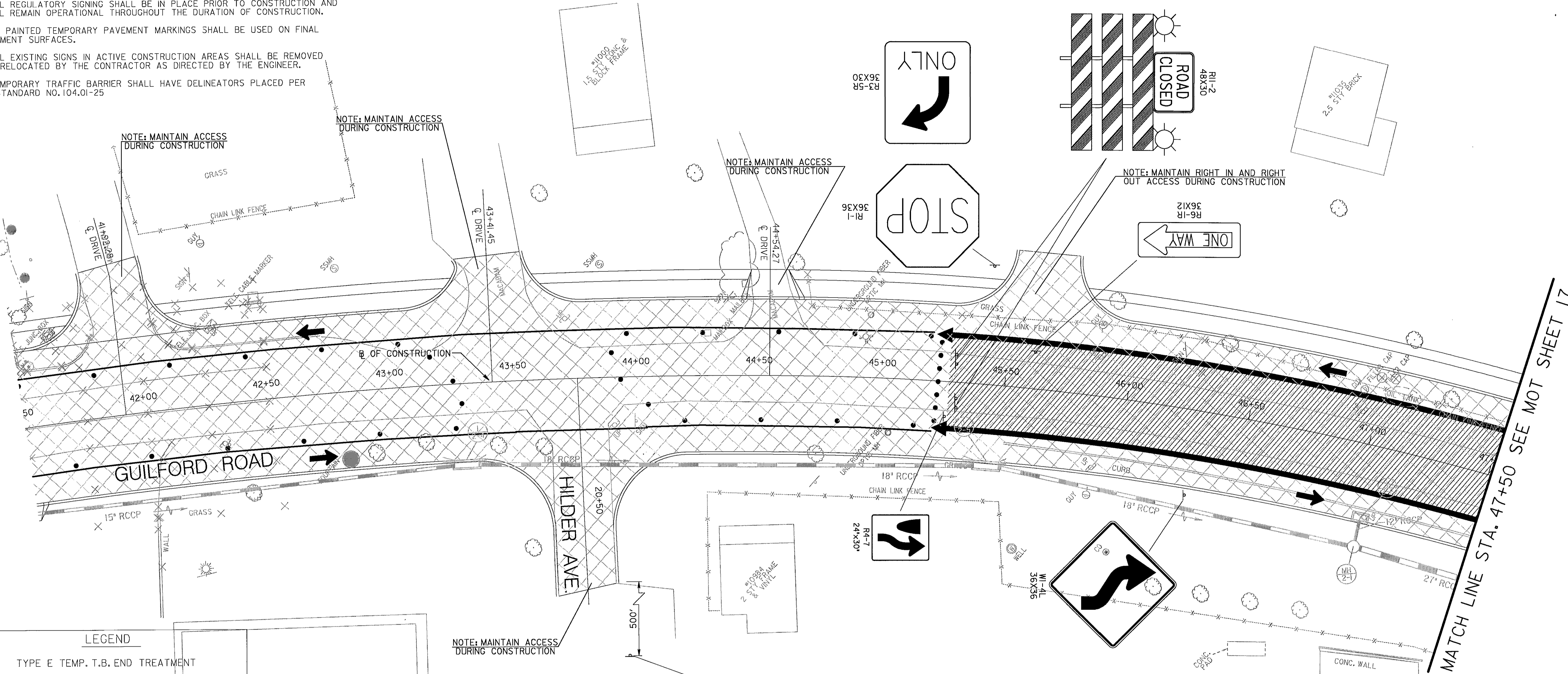
DES: JMR				
DRN: DKS				
CHK: TCC				
DATE: 8-06	BY	NO.	DATE	

GUILFORD ROAD IMPROVEMENTS
 MAINTENANCE OF TRAFFIC PLANS PHASE 2C
 CAPITAL PROJECT No. J-4175 AND B-3855

MOT-16A
 SCALE
 1" = 20'
 SHEET
 17 OF 156

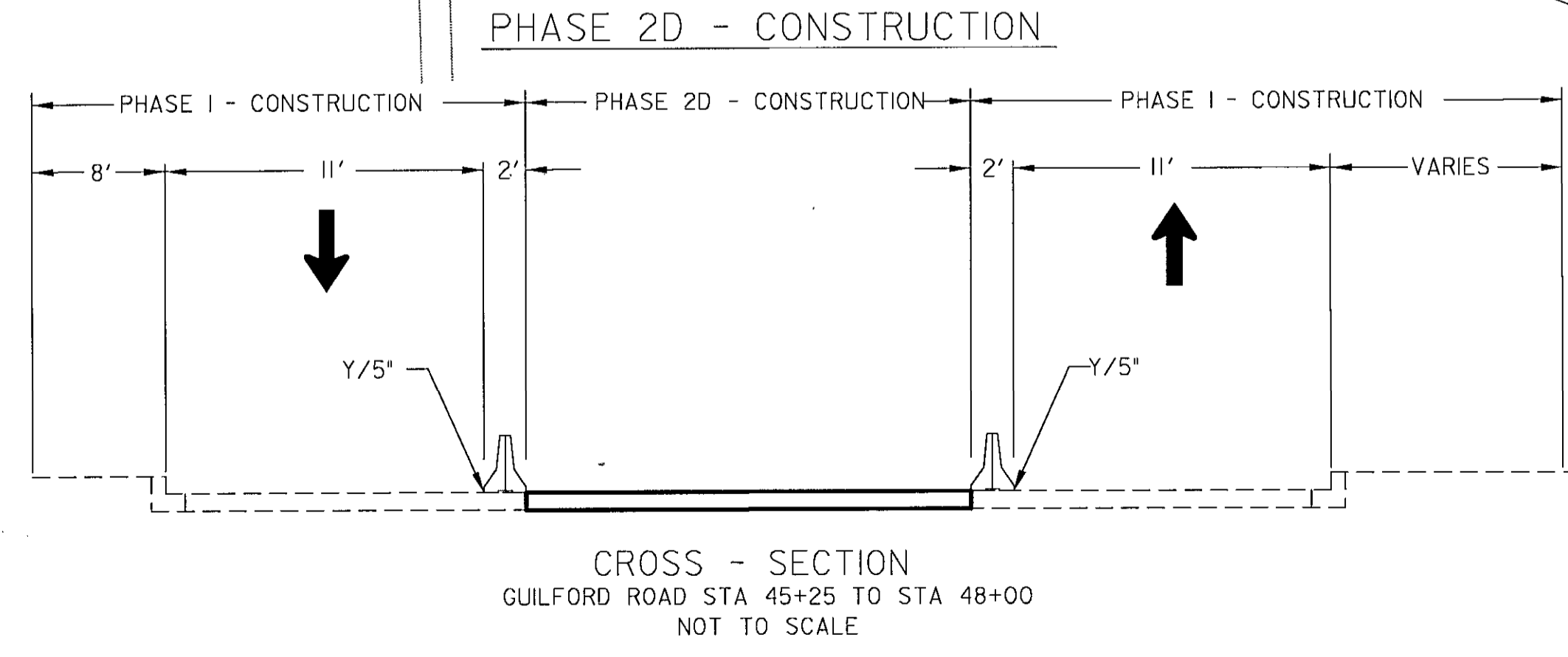
TRAFFIC CONTROL - GENERAL NOTES

1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25



LEGEND

- ◀ TYPE E TEMP. T.B. END TREATMENT
- SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ▧ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5' SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5' SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5' BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5' DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER



CONSTRUCTION SEQUENCE PHASE 2D
WHILE MAINTAINING TRAFFIC ON GUILFORD ROAD THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

AFTER THE COMPLETION OF PHASE 1, THE CONTRACTOR SHALL RECONFIGURE THE TRAFFIC CONTROL DEVICES AND PLACE TEMPORARY PAVEMENT AS SHOWN.

CONSTRUCT THE CENTER SECTION OF GUILFORD ROAD FROM STA 45+25 TO STA 48+00

THE CONTRACTOR WILL BE LIMITED TO CONSTRUCTING SECTIONS OF ROADWAY AS SHOWN.

MAINTAIN RIGHT IN AND RIGHT OUT ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES WITHIN THE CONSTRUCTION AREA.

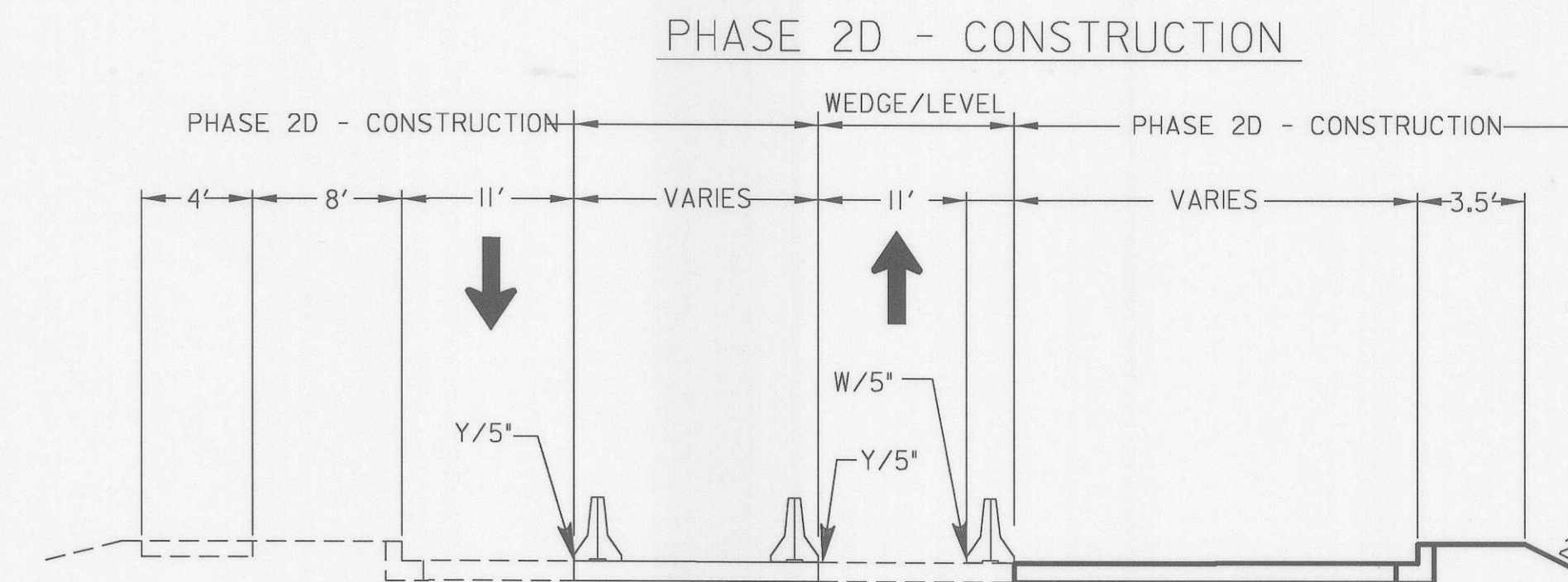
AFTER PHASE 2D CONSTRUCTION IS COMPLETE, THE BARRIER WILL BE REMOVED AND REPLACED BY DRUMS TO DIRECT TRAFFIC AND ALLOW ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES.

MATCH LINE STA. 47+50 SEE MOT SHEET 17

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director: <i>Jan J. J...</i> 8/7/06 Chief, Bureau of Engineering: <i>Robert...</i> 8/7/06 Chief, Bureau of Highways: <i>Willa...</i> 8/8/06 Chief, Division of Transportation, Special Projects Division: <i>Jan...</i> 8/7/06		GANNETT FLEMING, INC. BALTIMORE, MARYLAND	DES: JMC DRN: DKS CHK: TCC DATE: 8-06	BY: _____ NO. _____ DATE _____	GUILFORD ROAD IMPROVEMENTS MAINTENANCE OF TRAFFIC PLANS PHASE 2D CAPITAL PROJECT No. J-4175 AND B-3855	MOT-16B SCALE 1"=20' SHEET 78 OF 156
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LEGEND

- ◀ TYPE E TEMP. T.B. END TREATMENT
- ⊥ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ◊ WEDGE AND LEVEL
- ◻ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

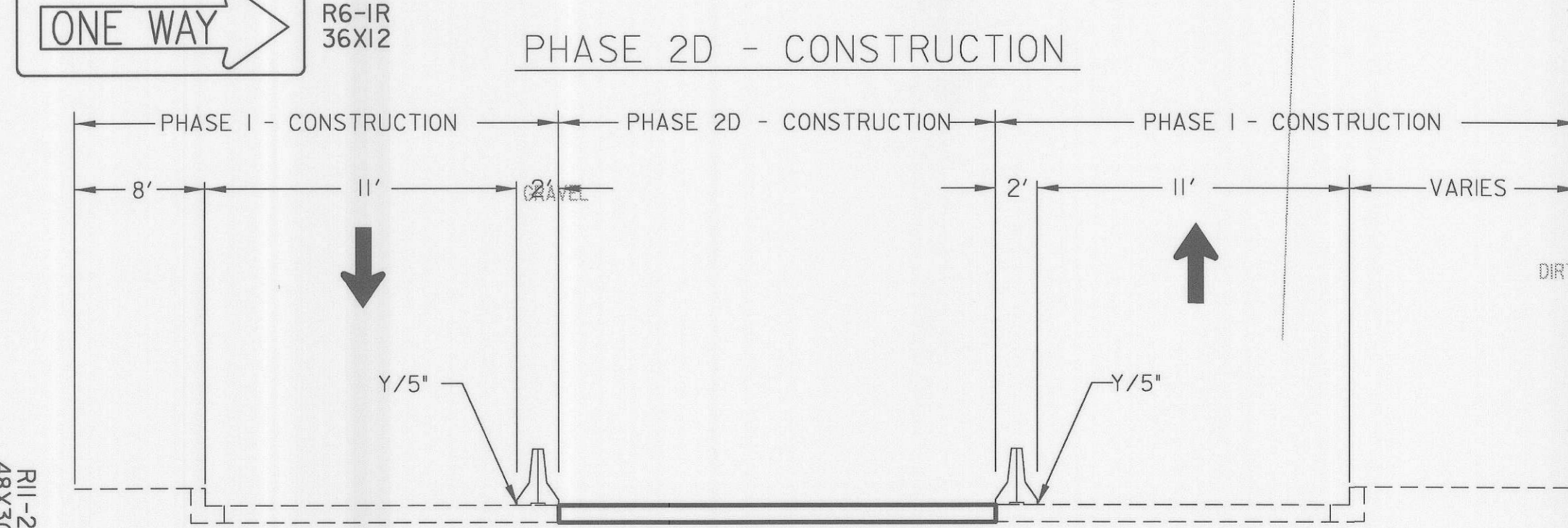
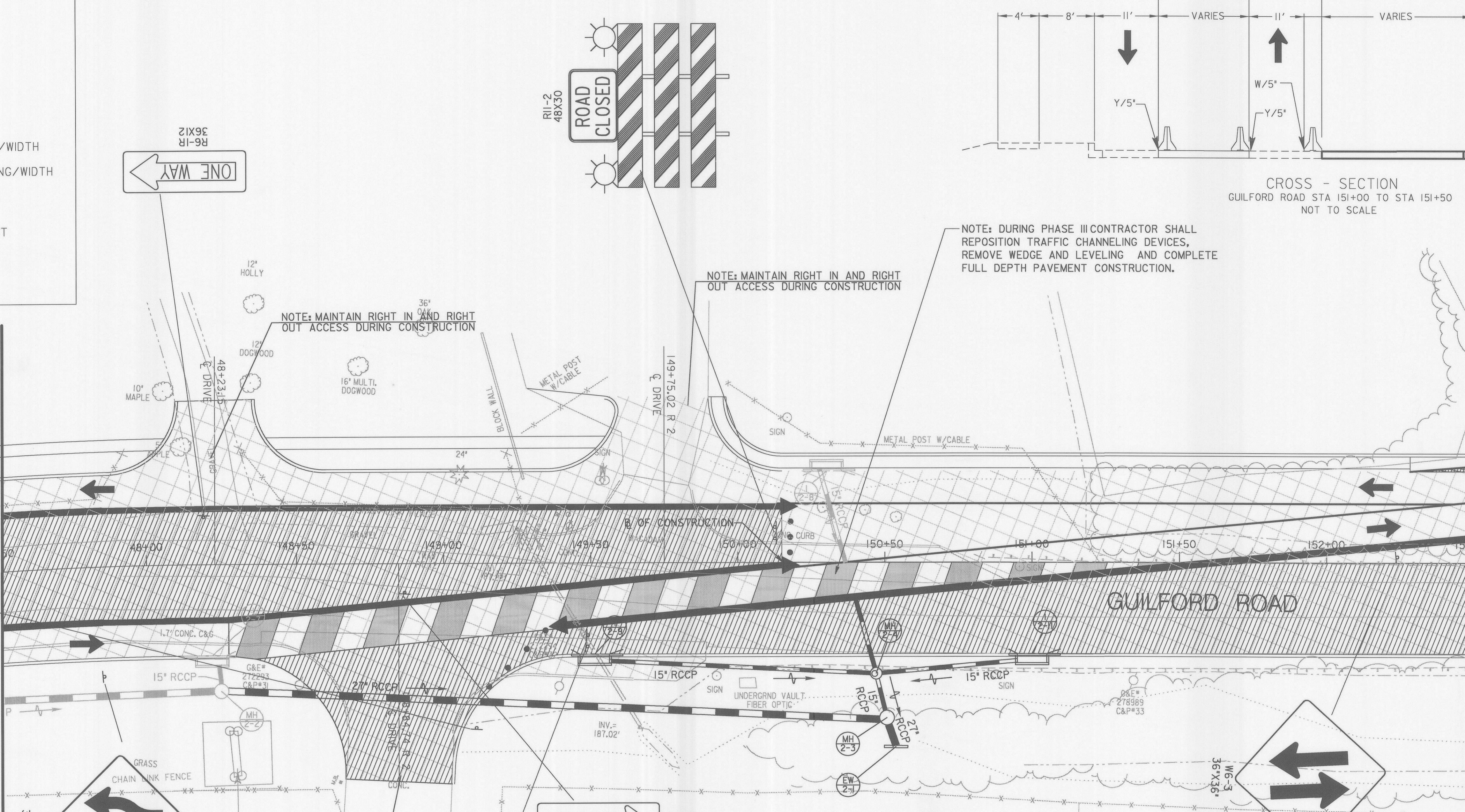


CROSS - SECTION
GUILFORD ROAD STA 151+00 TO STA 151+50
NOT TO SCALE

NOTE: DURING PHASE III CONTRACTOR SHALL REPOSITION TRAFFIC CHANNELIZING DEVICES, REMOVE WEDGE AND LEVELING AND COMPLETE FULL DEPTH PAVEMENT CONSTRUCTION.

MATCH LINE STA. 47+50 SEE MOT SHEET 16

MATCH LINE STA. 152+50 SEE MOT SHEET 18A



CROSS - SECTION
GUILFORD ROAD STA 45+25 TO STA 48+00
NOT TO SCALE

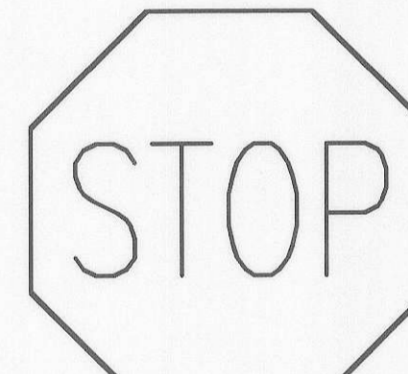
NOTE: MAINTAIN RIGHT IN AND RIGHT OUT ACCESS DURING CONSTRUCTION

NOTE: MAINTAIN RIGHT IN AND RIGHT OUT ACCESS DURING CONSTRUCTION

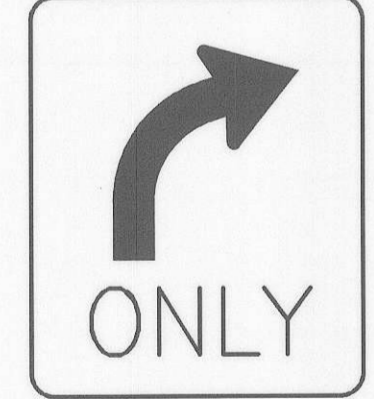
NOTE: MAINTAIN RIGHT IN AND RIGHT OUT ACCESS DURING CONSTRUCTION

TRAFFIC CONTROL - GENERAL NOTES

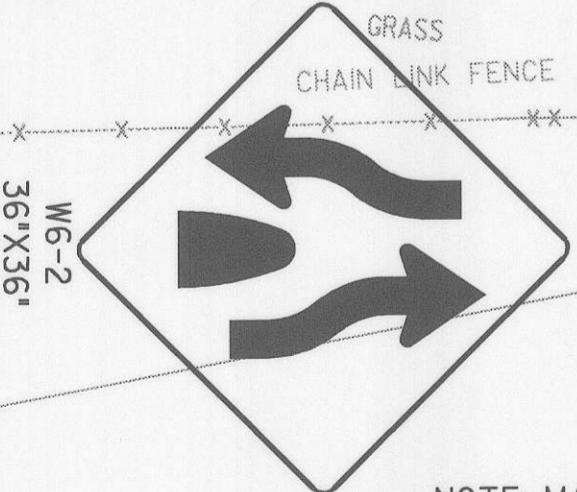
1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25



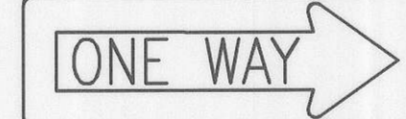
RI-1
36X36



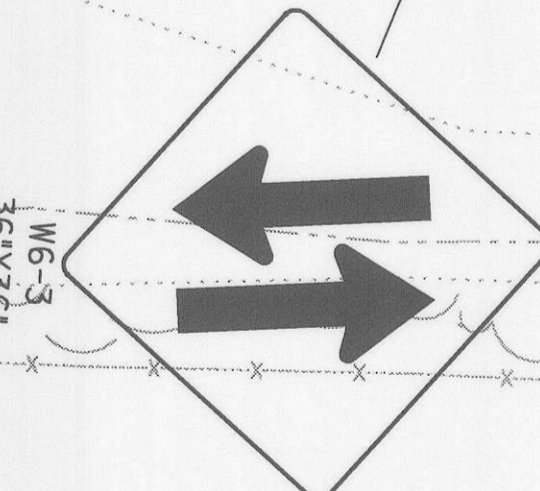
R3-5R
36X30



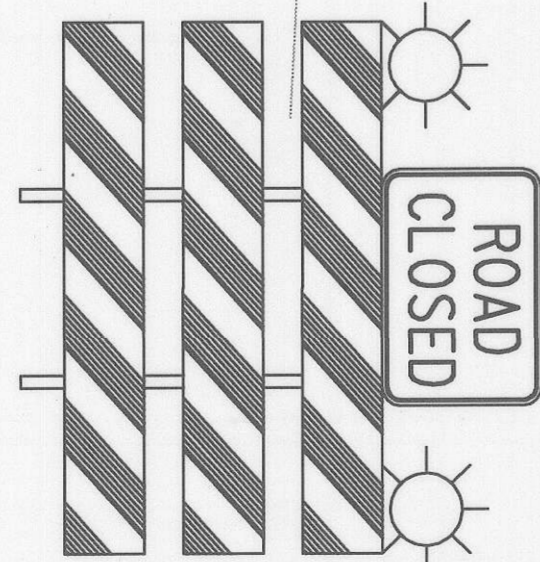
W6-2
36X36



R6-1R
36X12



W6-3
36X36



RI-2
48X30

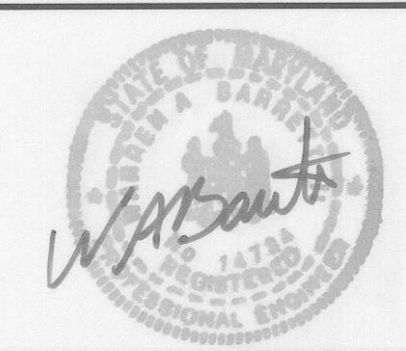
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
DIRECTOR OF PUBLIC WORKS
DATE: 8/10/06

[Signature]
CHIEF, BUREAU OF ENGINEERING
DATE: 8/10/06

GANNETT
FLEMING, INC.

[Logo]
BALTIMORE,
MARYLAND



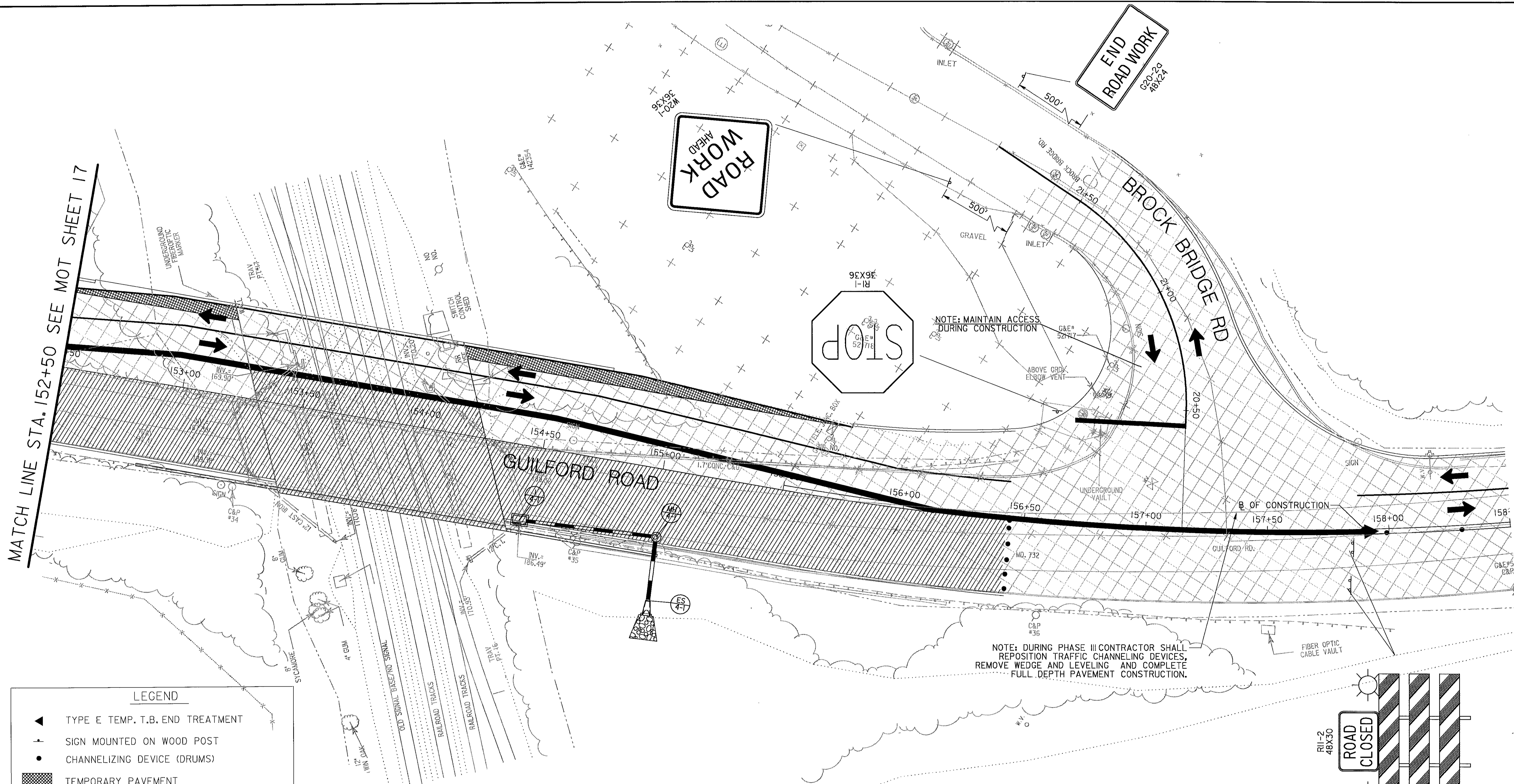
DES: JAR
DRN: DKS
CHK: TCC
DATE: 8-06

BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE 2D
CAPITAL PROJECT No. J-4175 AND B-3855

MOT-17
SCALE
1"=20'
SHEET
19 OF 156

FONT: LIBRARY=SHAFFONTS
LINES: STYLE: LIBRARY=MDSHALLS
07/27/2006
R:\mfr\en\guil\for\c\pge\mot\mot17.dgn



MATCH LINE STA. 152+50 SEE MOT SHEET 17

END ROAD WORK
C20-20
48X24

ROAD WORK
AHEAD

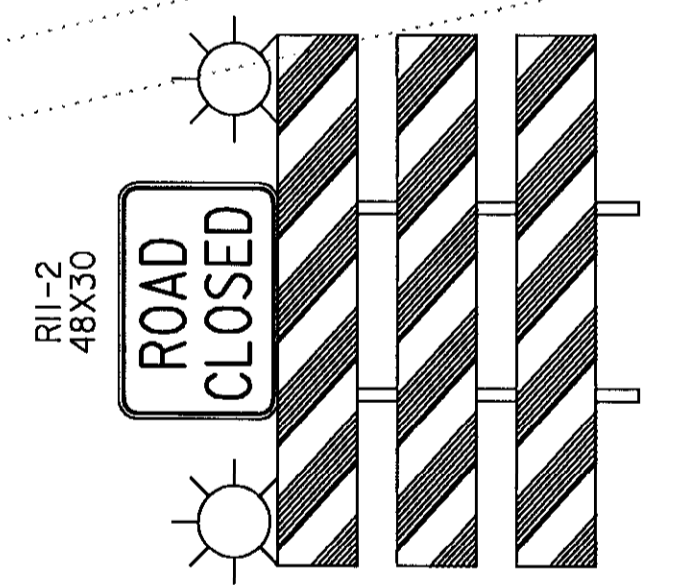
STOP
RI-1
96X96
52
718

NOTE: MAINTAIN ACCESS DURING CONSTRUCTION

BROCK BRIDGE RD

GUILFORD ROAD

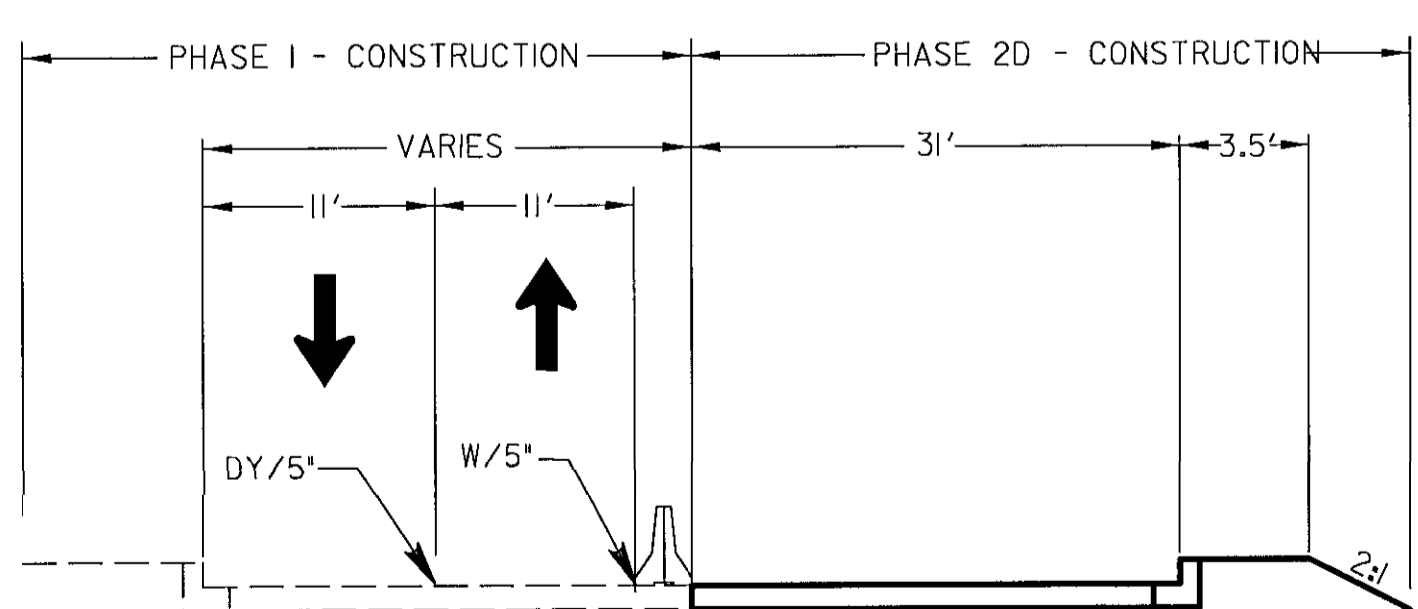
NOTE: DURING PHASE III CONTRACTOR SHALL REPOSITION TRAFFIC CHANNELING DEVICES, REMOVE WEDGE AND LEVELING AND COMPLETE FULL DEPTH PAVEMENT CONSTRUCTION.



LEGEND

- ▲ TYPE E TEMP. T.B. END TREATMENT
- † SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ▧ WEDGE AND LEVEL
- ▤ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

PHASE 2D - CONSTRUCTION



CROSS - SECTION
GUILFORD ROAD STA 151+50 TO STA 156+50
NOT TO SCALE

TRAFFIC CONTROL - GENERAL NOTES

1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

FONT: LIBRARY=SHAFFONT'S
 LINES: STYLE=LIBRARY=MDSHAALS
 07/27/2006
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 8/7/06
 DIRECTOR OF PUBLIC WORKS DATE
[Signature] 8-8-06
 CHIEF, BUREAU OF HIGHWAYS DATE

GANNETT FLEMING, INC.

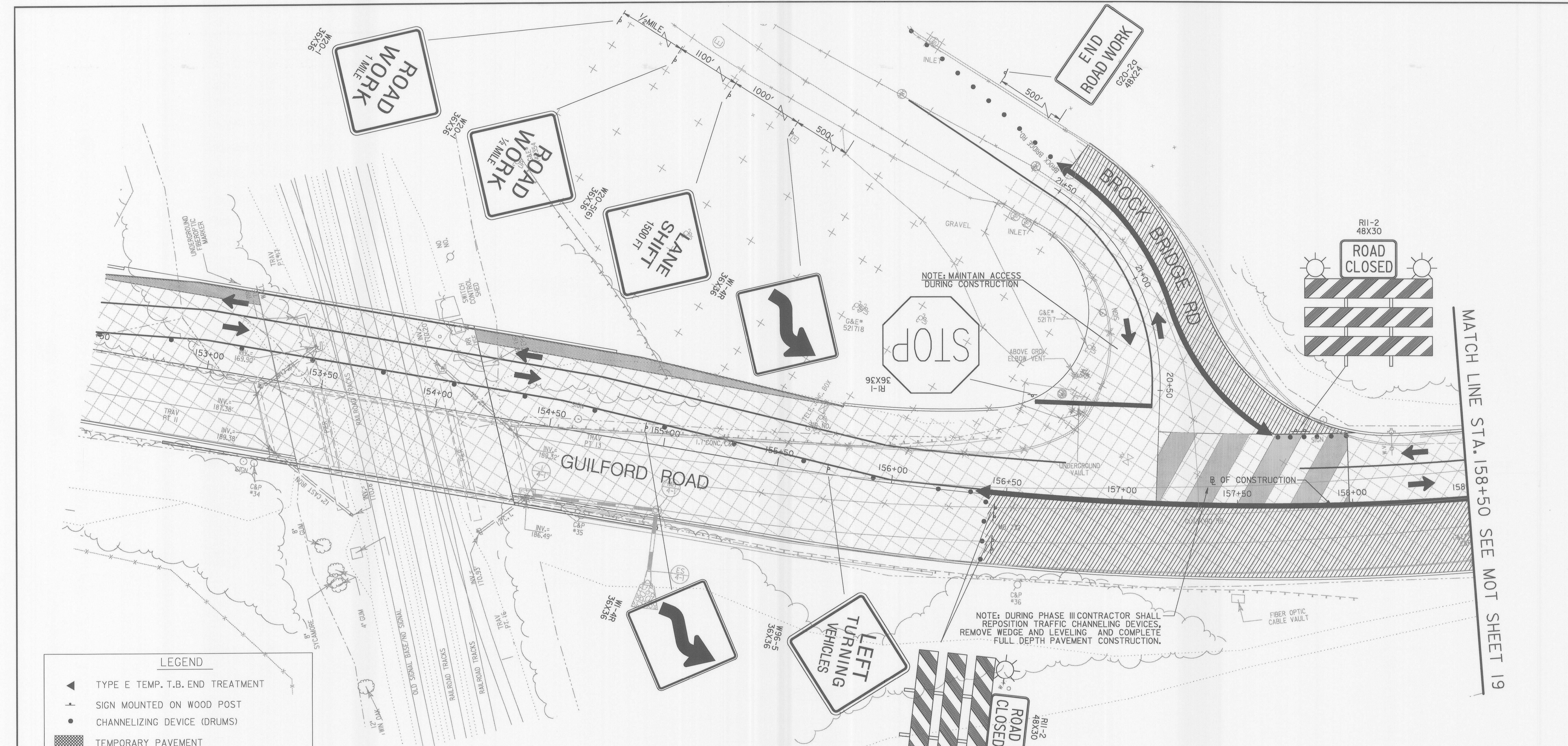
 BALTIMORE, MARYLAND

CHIEF, BUREAU OF ENGINEERING DATE
 CHIEF, DIVISION OF TRANSPORTATION, DATE
 SPECIAL PROJECTS DIVISION

DES: JMR					
DRN: DKS					
CHK: TCC					
DATE: 8-06	BY	NO.		DATE	

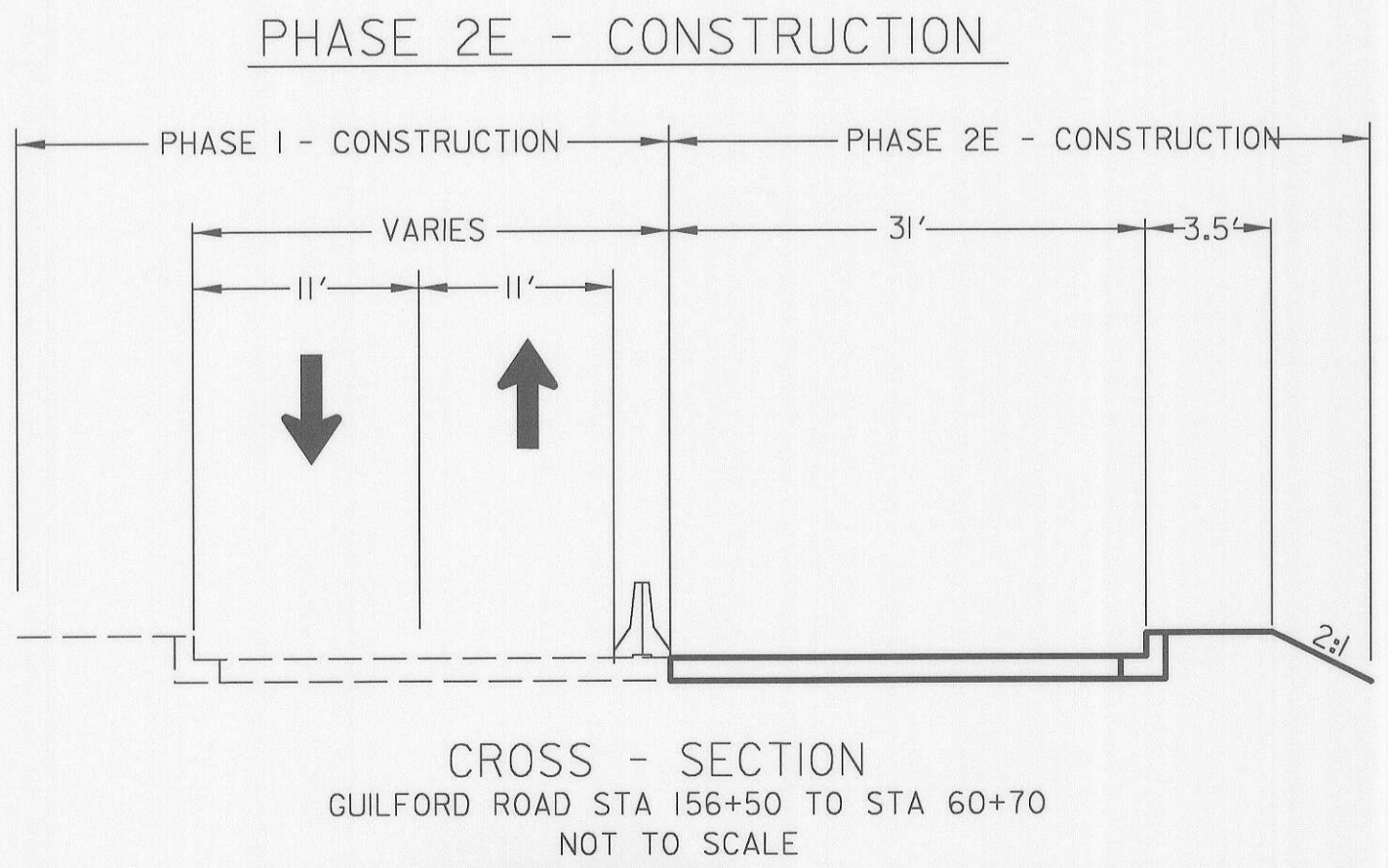
GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE 2D
CAPITAL PROJECT No. J-4175 AND B-3855

MOT-18A
SCALE
1"=20'
SHEET
80 OF 156



MATCH LINE STA. 158+50 SEE MOT SHEET 19

LEGEND	
	TYPE E TEMP. T.B. END TREATMENT
	SIGN MOUNTED ON WOOD POST
	CHANNELIZING DEVICE (DRUMS)
	TEMPORARY PAVEMENT
	PERMANENT CONSTRUCTION
	WEDGE AND LEVEL
	EXISTING PAVEMENT
W/5"	SOLID WHITE PAVEMENT MARKING/WIDTH
Y/5"	SOLID YELLOW PAVEMENT MARKING/WIDTH
BW/5"	BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
DY/5"	DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
	TRAFFIC FLOW ARROW
	TEMPORARY CONCRETE BARRIER

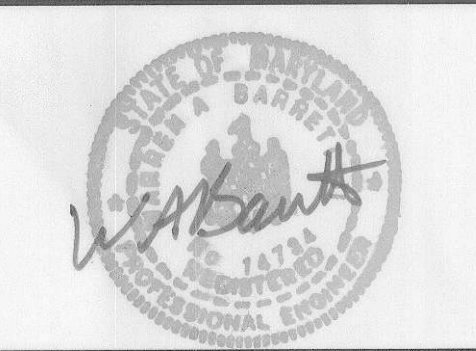


CONSTRUCTION SEQUENCE PHASE 2E
WHILE MAINTAINING TRAFFIC ON GUILFORD ROAD THE CONTRACTOR SHALL PERFORM THE FOLLOWING:
AFTER THE COMPLETION OF PHASE I, THE CONTRACTOR SHALL RECONFIGURE THE TRAFFIC CONTROL DEVICES AND PLACE TEMPORARY PAVEMENT AS SHOWN.
CONSTRUCT THE CENTER SECTION OF GUILFORD ROAD FROM STA 156+50 TO STA 60+70
THE CONTRACTOR WILL BE LIMITED TO CONSTRUCTING SECTIONS OF ROADWAY AS SHOWN.
MAINTAIN RIGHT IN AND RIGHT OUT ACCESS TO ALL DRIVEWAYS, ALLEYS, AND ENTRANCES WITHIN THE CONSTRUCTION AREA.

- TRAFFIC CONTROL - GENERAL NOTES**
- VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
 - ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
 - NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
 - ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 - TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

FONT: LIBRARY-SHAFFONTS
LINES: STYLE: LIBRARY-MDSHALLS
07/27/2006
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC.	
<i>John J. ...</i> DIRECTOR OF PUBLIC WORKS	8/7/06 DATE	<i>Robert J. ...</i> CHIEF, BUREAU OF ENGINEERING	8/7/06 DATE
<i>William J. ...</i> CHIEF, BUREAU OF HIGHWAYS	8-8-06 DATE	<i>Jan ...</i> CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION	8/7/06 DATE



DES: JMR			
DRN: DKS			
CHK: TCC			
DATE: 8-06	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE 2E
CAPITAL PROJECT No. J-4175 AND B-3855

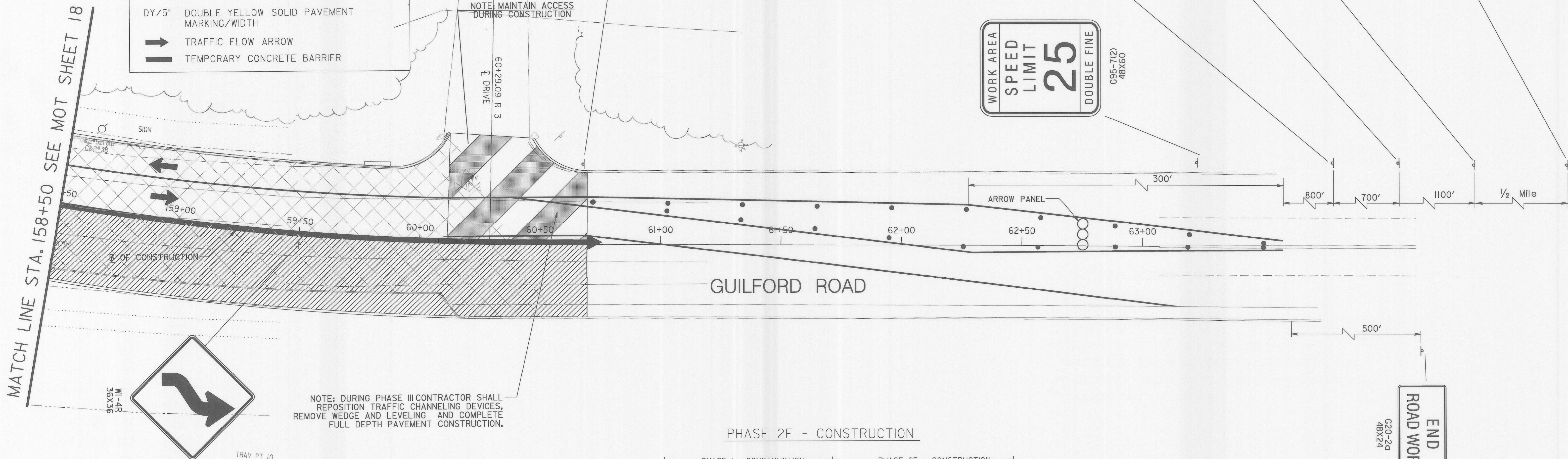
MOT-18B
SCALE
1"=20'
SHEET
81 OF 156

LEGEND

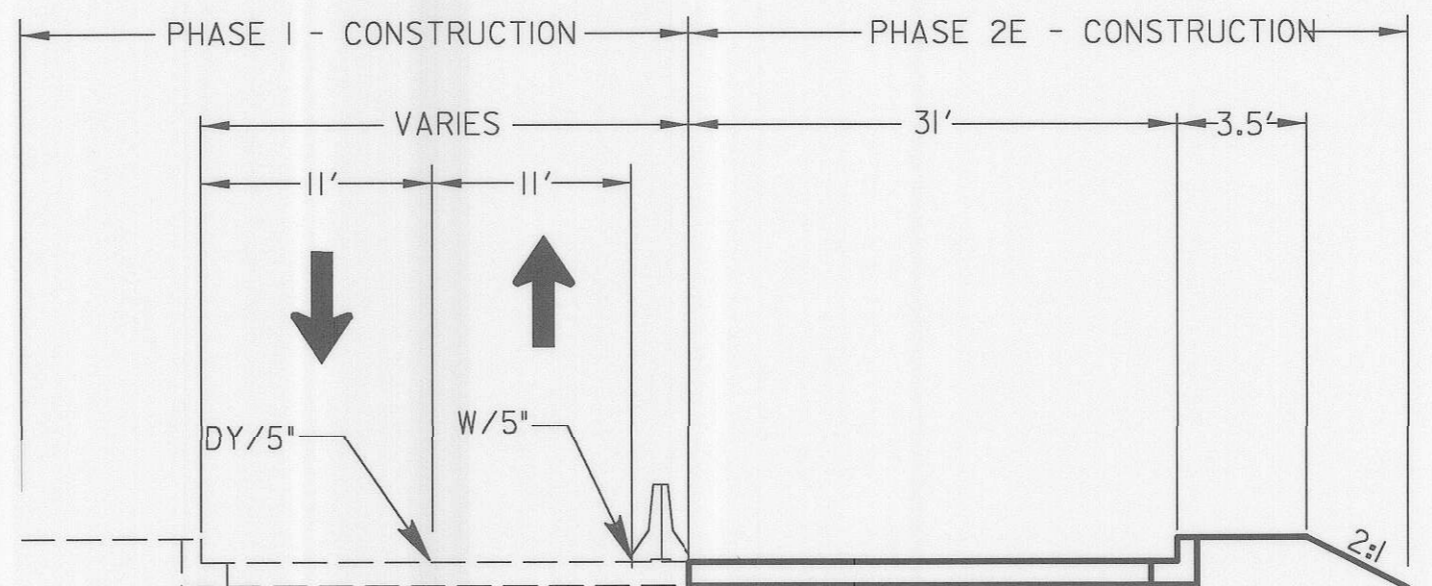
- ◄ TYPE E TEMP. T.B. END TREATMENT
- ⊥ SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- TEMPORARY PAVEMENT
- PERMANENT CONSTRUCTION
- WEDGE AND LEVEL
- EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- TEMPORARY CONCRETE BARRIER

WORK AREA
SPEED LIMIT
25
DOUBLE FINE
G95-7(2)
48X60

MATCH LINE STA. 158+50 SEE MOT SHEET 18



PHASE 2E - CONSTRUCTION



CROSS - SECTION
GUILFORD ROAD STA 156+50 TO STA 60+70
NOT TO SCALE

- TRAFFIC CONTROL - GENERAL NOTES
1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
 2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
 3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
 4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
 5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

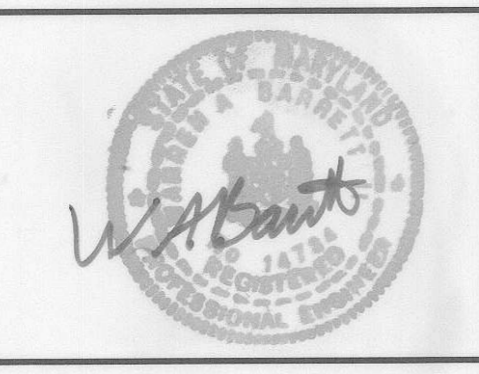
James W. ... 8/1/06
DIRECTOR OF PUBLIC WORKS DATE

Paul ... 8/1/06
CHIEF, BUREAU OF ENGINEERING DATE

... 8/1/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

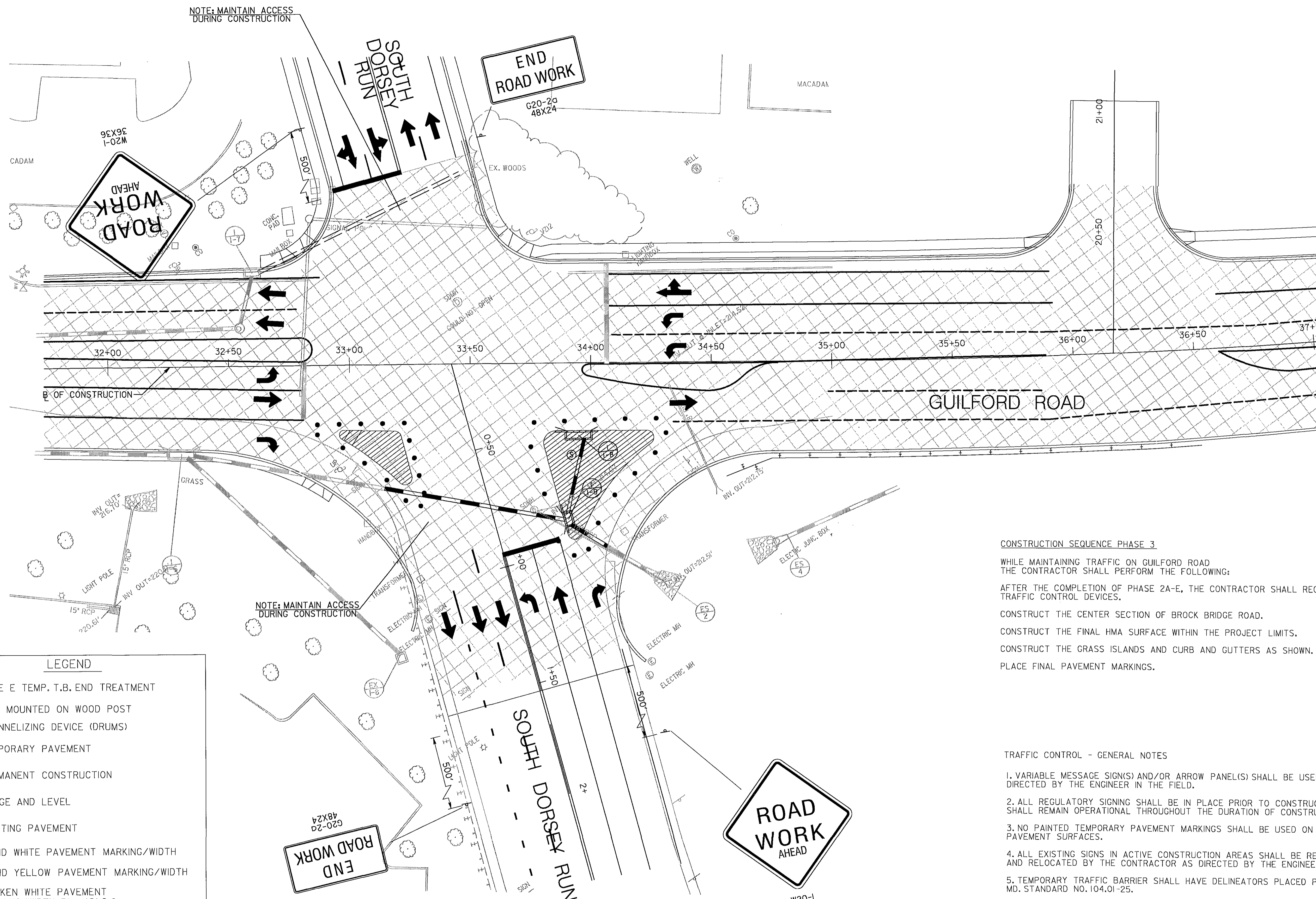
BALTIMORE, MARYLAND



DES: JMR					
DRN: DKS					
CHK: TCC					
DATE: 8-06	BY	NO.		DATE	

GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE 2E
CAPITAL PROJECT No. J-4175 AND B-3855

MOT-19
SCALE
1" = 20'
SHEET
82 OF 156



CONSTRUCTION SEQUENCE PHASE 3

WHILE MAINTAINING TRAFFIC ON GUILFORD ROAD THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

AFTER THE COMPLETION OF PHASE 2A-E, THE CONTRACTOR SHALL RECONFIGURE THE TRAFFIC CONTROL DEVICES.

CONSTRUCT THE CENTER SECTION OF BROCK BRIDGE ROAD.

CONSTRUCT THE FINAL HMA SURFACE WITHIN THE PROJECT LIMITS.

CONSTRUCT THE GRASS ISLANDS AND CURB AND GUTTERS AS SHOWN.

PLACE FINAL PAVEMENT MARKINGS.

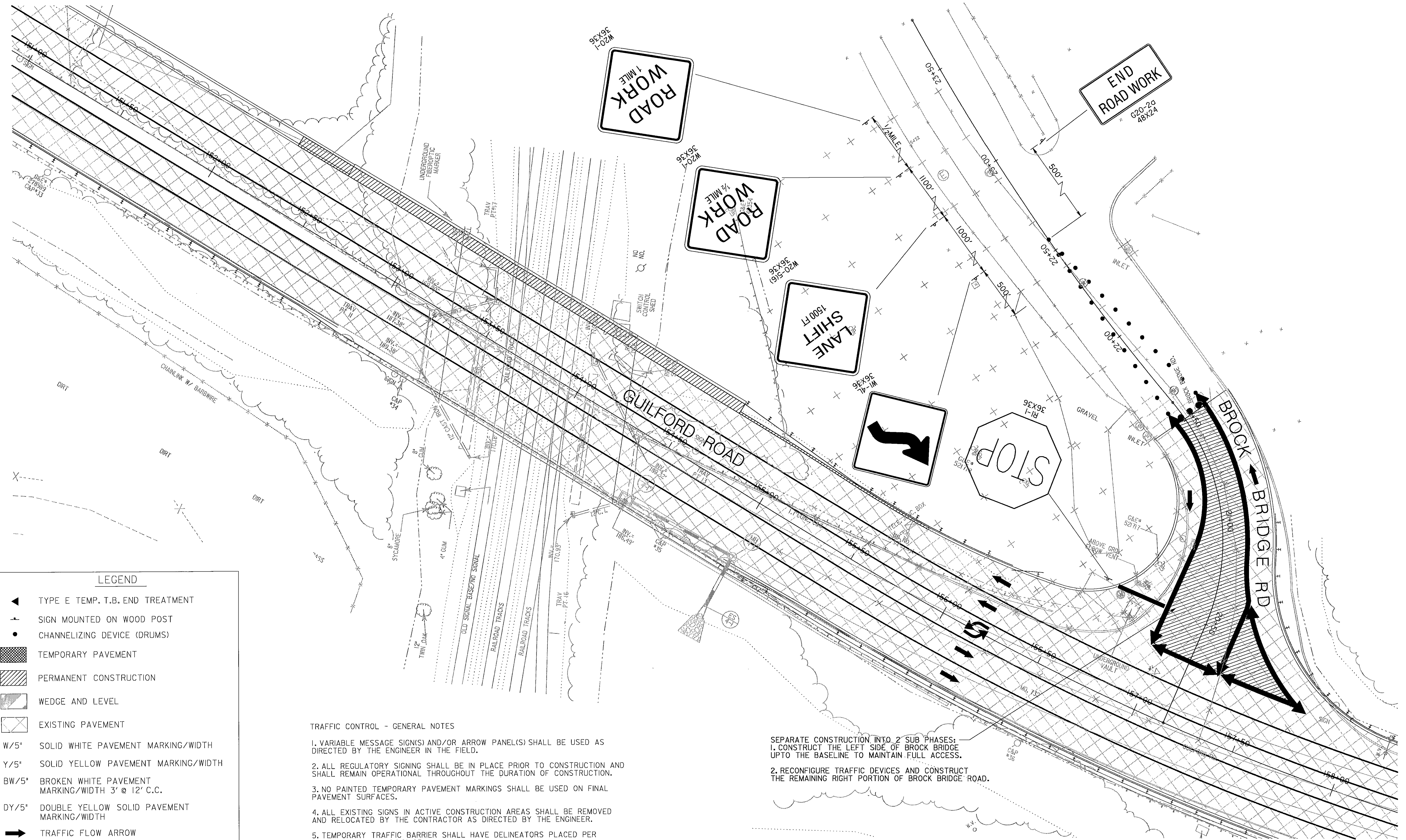
TRAFFIC CONTROL - GENERAL NOTES

- VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
- ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
- NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
- ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25.
- FOR PAVEMENT MARKINGS AT THE INTERSECTION, REFER TO TEMPORARY SIGNAL PLAN PHASE 3 (MOT-20).
- ULTIMATE SIGNAL EQUIPMENT SHOULD BE IN USE FOR THIS PHASE AS SHOWN IN SIGNAL PLAN SHEET NO. XX.
- ALL TEMPORARY SIGNAL EQUIPMENT (WOOD POLES, STEEL SPAN WIRE, SIGNAL HEADS, ETC) SHALL BE REMOVED PRIOR TO BEGINNING THIS PHASE.

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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC. BALTIMORE, MARYLAND		 REGISTERED PROFESSIONAL ENGINEER	
Director of Public Works <i>Jan 4/16</i> DATE: 8/16/06	Chief, Bureau of Engineering <i>Charles Pagan</i> DATE: 8/17/06	Chief, Bureau of Highways <i>William J. Marshall</i> DATE: 8/9/06	Chief, Division of Transportation, Special Projects Division <i>James A. Banta</i> DATE: 8/17/06	DES: JAR DRN: DKS CHK: TCC DATE: 8-06	BY: _____ NO: _____ DATE: _____

MOT-20	
GUILFORD ROAD IMPROVEMENTS	
MAINTENANCE OF TRAFFIC PLANS PHASE 3	
CAPITAL PROJECT No. J-4175 AND B-3855	
SCALE	1" = 20'
SHEET	83 OF 156



LEGEND

- ◄ TYPE E TEMP. T.B. END TREATMENT
- SIGN MOUNTED ON WOOD POST
- CHANNELIZING DEVICE (DRUMS)
- ▨ TEMPORARY PAVEMENT
- ▩ PERMANENT CONSTRUCTION
- ◻ WEDGE AND LEVEL
- ◻ EXISTING PAVEMENT
- W/5" SOLID WHITE PAVEMENT MARKING/WIDTH
- Y/5" SOLID YELLOW PAVEMENT MARKING/WIDTH
- BW/5" BROKEN WHITE PAVEMENT MARKING/WIDTH 3' @ 12' C.C.
- DY/5" DOUBLE YELLOW SOLID PAVEMENT MARKING/WIDTH
- ➔ TRAFFIC FLOW ARROW
- ▬ TEMPORARY CONCRETE BARRIER

TRAFFIC CONTROL - GENERAL NOTES

1. VARIABLE MESSAGE SIGN(S) AND/OR ARROW PANEL(S) SHALL BE USED AS DIRECTED BY THE ENGINEER IN THE FIELD.
2. ALL REGULATORY SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION.
3. NO PAINTED TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON FINAL PAVEMENT SURFACES.
4. ALL EXISTING SIGNS IN ACTIVE CONSTRUCTION AREAS SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
5. TEMPORARY TRAFFIC BARRIER SHALL HAVE DELINEATORS PLACED PER MD. STANDARD NO. 104.01-25

- SEPARATE CONSTRUCTION INTO 2 SUB PHASES:
1. CONSTRUCT THE LEFT SIDE OF BROCK BRIDGE UP TO THE BASELINE TO MAINTAIN FULL ACCESS.
 2. RECONFIGURE TRAFFIC DEVICES AND CONSTRUCT THE REMAINING RIGHT PORTION OF BROCK BRIDGE ROAD.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND


Jan 11 2006
DIRECTOR OF PUBLIC WORKS DATE

Robert J. ... 8/7/06
CHIEF, BUREAU OF ENGINEERING DATE

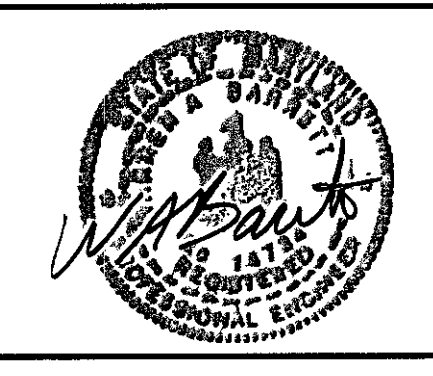
William F. ... 8-8-06
CHIEF, BUREAU OF HIGHWAYS DATE

Jan ... 8/7/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.



BALTIMORE, MARYLAND



DES: JMR			
DRN: DKS			
CHK: TCC			
DATE: 8-06	BY	NO.	DATE

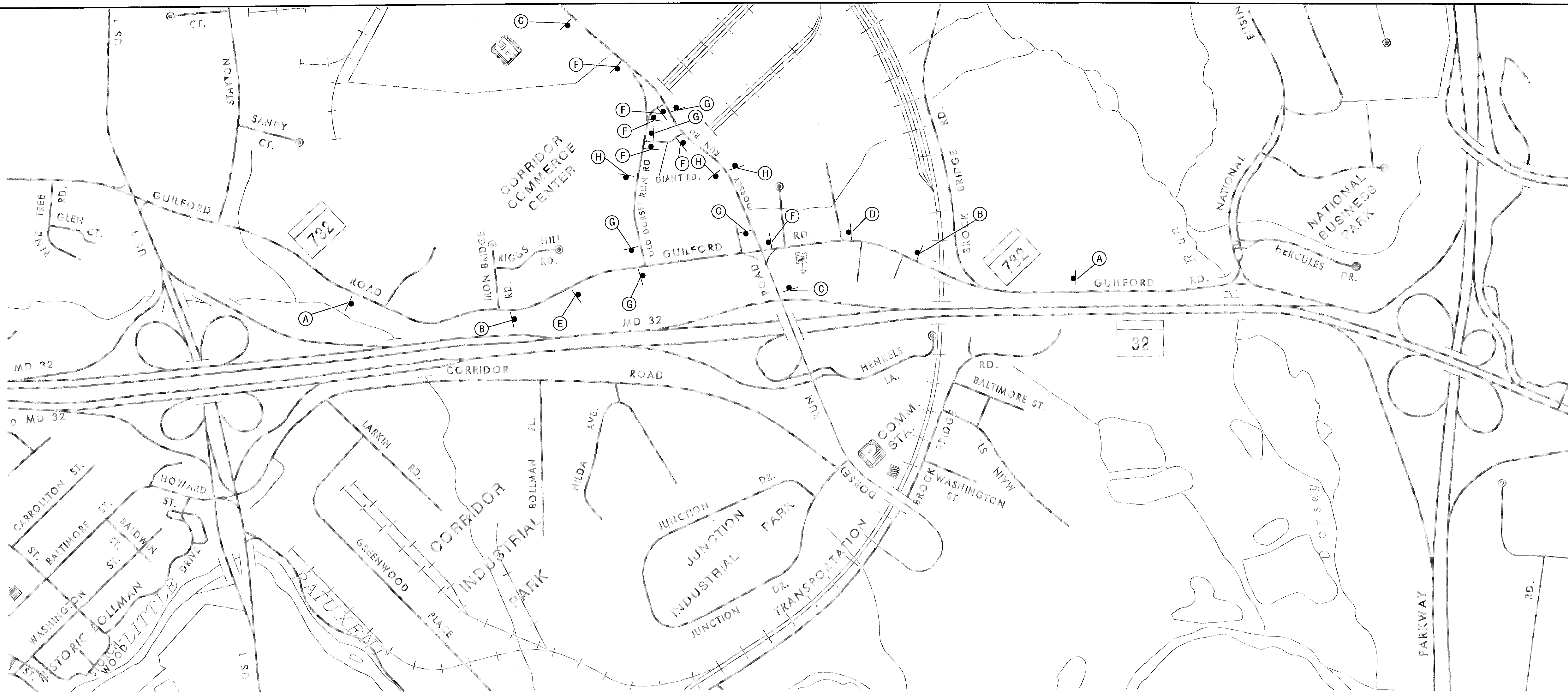
GUILFORD ROAD IMPROVEMENTS
MAINTENANCE OF TRAFFIC PLANS PHASE 3

CAPITAL PROJECT No. J-4175 AND B-3855

MOT-21

SCALE
1" = 20'

SHEET
84 OF 156

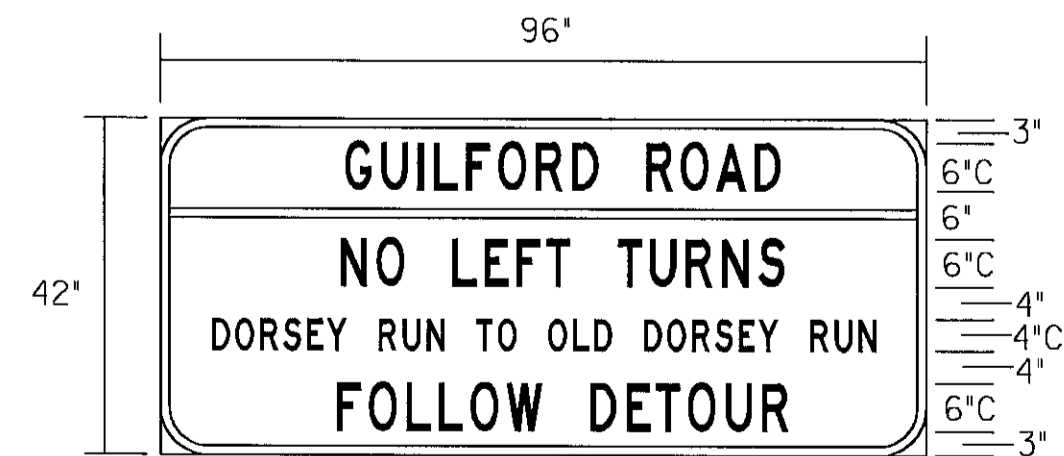
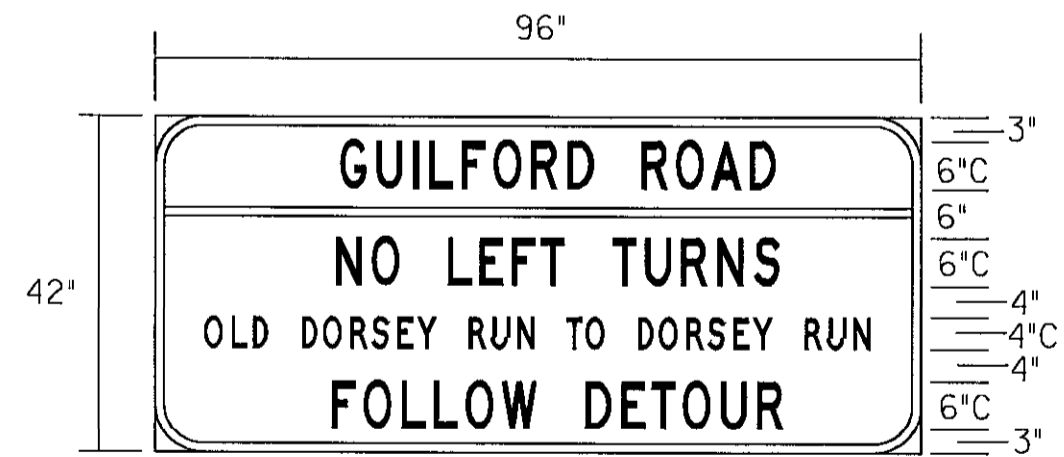


DESCRIPTION	QUANTITY
A VMS	2
B 96' x 42'	2
C 96' x 42'	2

DESCRIPTION	QUANTITY
D 30' x 12' M4-9R 30' x 24'	1
E 30' x 12' M4-9L 30' x 24'	1
F 30' x 12' M4-9R 30' x 24'	6
G 30' x 12' M4-9L 30' x 24'	5

DESCRIPTION	QUANTITY
H 30' x 12' M4-9 30' x 24'	3

DETOUR GENERAL NOTES:
 WHILE MAINTAINING TRAFFIC ON EXISTING GUILFORD ROAD THE CONTRACTOR SHALL PERFORM THE FOLLOWING:
 DURING PHASES 2A AND 2B LEFT TURN MOVEMENTS ALONG GUILFORD ROAD BETWEEN OLD DORSEY RUN ROAD AND DORSEY RUN ROAD SHALL BE RESTRICTED.
 VMS SIGNS SHALL BE PLACED IN ADVANCE OF THE DETOUR SIGNING AND IN PLACE 72 HOURS PRIOR TO THE IMPLEMENTATION OF THE DETOUR. THE CONTRACTOR SHALL CONTACT HOWARD COUNTY - TRAFFIC DIVISION FOR APPROPRIATE MESSAGES 2 WEEKS PRIOR TO DETOUR IMPLEMENTATION AT (410) 313 - 2430.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *William Z. Mubel* DATE: 8/7/06
 Chief, Bureau of Engineering: *Charles H. Pagan* DATE: 8/7/06
 Chief, Bureau of Highways: *William Z. Mubel* DATE: 8/8/06
 Chief, Division of Transportation, Special Projects Division: *John H. Smith* DATE: 8/7/06

GANNETT FLEMING, INC.

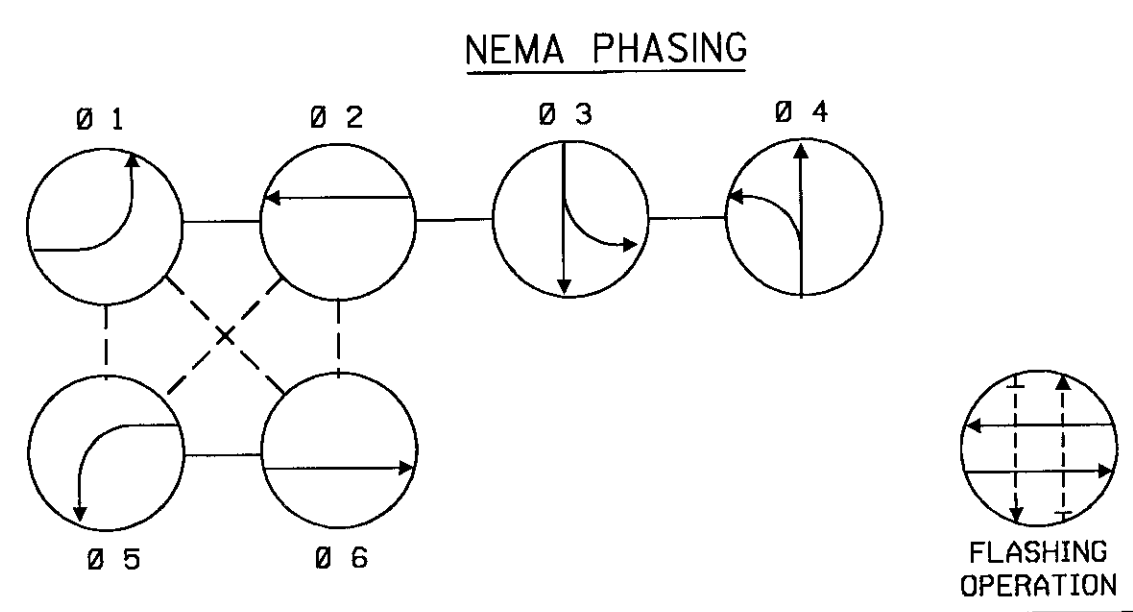
 BALTIMORE, MARYLAND



DES: JMR	
DRN: DKS	
CHK: TCC	
DATE: 8-06	
BY	NO.
	DATE

MOT-22
 GUILFORD ROAD IMPROVEMENTS
 GUILFORD ROAD DETOUR
 PHASES 2A AND 2B
 CAPITAL PROJECT No. J-4175 AND B-3855
 SCALE: 1"=20'
 SHEET: 85 OF 156

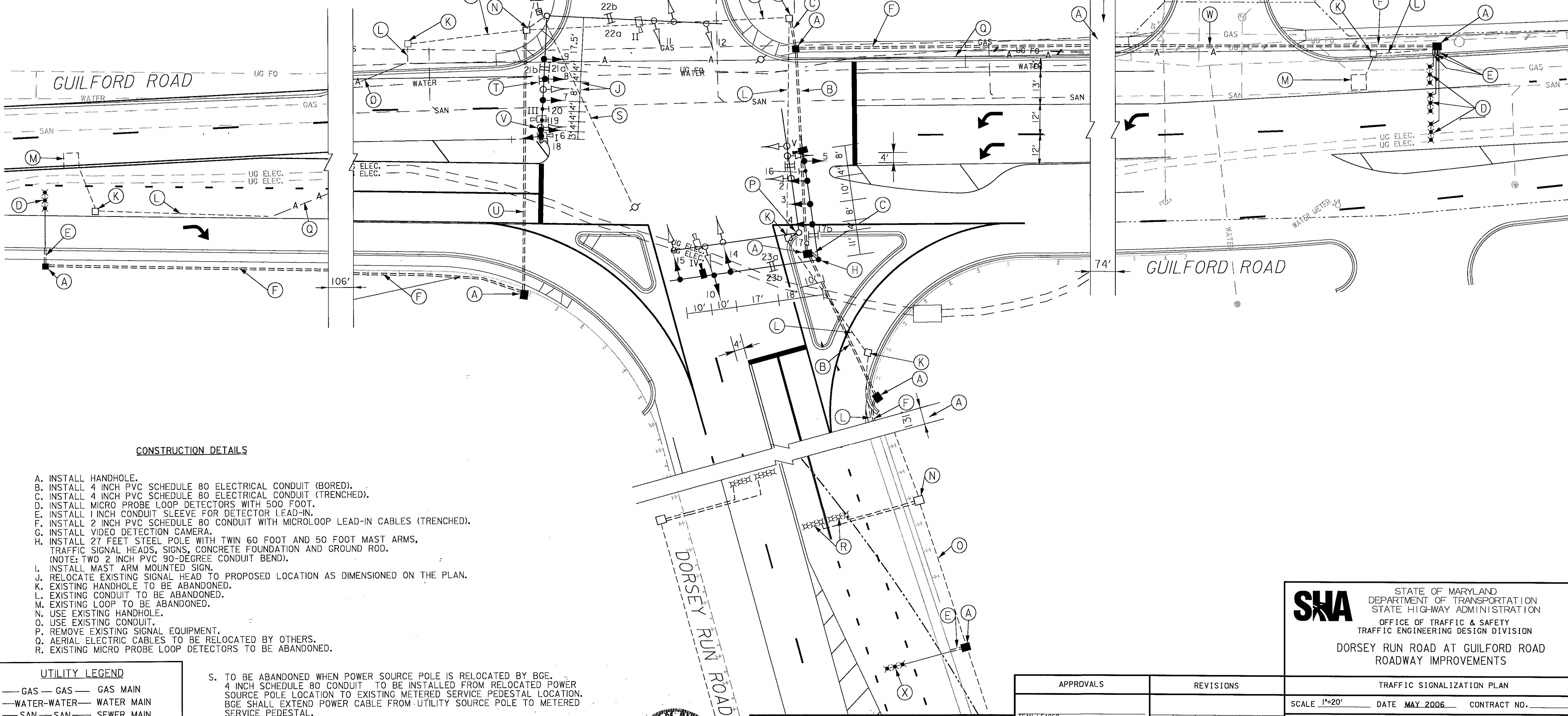
BORBER REV. DATE: June 1, 2006



PHASING NOTES:
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

EQUIPMENT	SIGNALS
I, II, III, IV, V VIDEO DETECTION CAMERA	1, 2, 3, 4, 8, 9, 12, 15 12" 12" 12" 8'12"
• I, II, III (EXISTING)	• 8 (EXISTING SIGNAL HEADS TO BE RELOCATED)

SIGNS	
17a, 17b, 21a, 21b Dorsey Run RD D3-2 DOUBLE FACED 16' X VARIABLE	22a, 22b, 23a, 23b Guilford RD D3-2 DOUBLE FACED 16' X VARIABLE • 22a, 22b (EXISTING)
16, 19, 20 R3-5 30' X 36' ONLY	18 R10-12 30' X 36' LEFT TURN YIELD ON GREEN SIGNS TO BE REMOVED



CONSTRUCTION DETAILS

- A. INSTALL HANDHOLE.
- B. INSTALL 4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (BORED).
- C. INSTALL 4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- D. INSTALL MICRO PROBE LOOP DETECTORS WITH 500 FOOT.
- E. INSTALL 1 INCH CONDUIT SLEEVE FOR DETECTOR LEAD-IN.
- F. INSTALL 2 INCH PVC SCHEDULE 80 CONDUIT WITH MICROLOOP LEAD-IN CABLES (TRENCHED).
- G. INSTALL VIDEO DETECTION CAMERA.
- H. INSTALL 27 FEET STEEL POLE WITH TWIN 60 FOOT AND 50 FOOT MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, CONCRETE FOUNDATION AND GROUND ROD. (NOTE: TWO 2 INCH PVC 90-DEGREE CONDUIT BEND).
- I. INSTALL MAST ARM MOUNTED SIGN.
- J. RELOCATE EXISTING SIGNAL HEAD TO PROPOSED LOCATION AS DIMENSIONED ON THE PLAN.
- K. EXISTING HANDHOLE TO BE ABANDONED.
- L. EXISTING CONDUIT TO BE ABANDONED.
- M. EXISTING LOOP TO BE ABANDONED.
- N. USE EXISTING HANDHOLE.
- O. USE EXISTING CONDUIT.
- P. REMOVE EXISTING SIGNAL EQUIPMENT.
- Q. AERIAL ELECTRIC CABLES TO BE RELOCATED BY OTHERS.
- R. EXISTING MICRO PROBE LOOP DETECTORS TO BE ABANDONED.

- S. TO BE ABANDONED WHEN POWER SOURCE POLE IS RELOCATED BY BGE. 4 INCH SCHEDULE 80 CONDUIT TO BE INSTALLED FROM RELOCATED POWER SOURCE POLE LOCATION TO EXISTING METERED SERVICE PEDESTAL LOCATION. BGE SHALL EXTEND POWER CABLE FROM UTILITY SOURCE POLE TO METERED SERVICE PEDESTAL.
- T. RELOCATE OVERHEAD SIGN PANEL ON EXISTING MAST ARM.
- U. INSTALL 3 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (SLOTTED).
- V. REMOVE EXISTING SIGNAL HEAD.
- W. INSTALL 2 INCH PVC SCHEDULE 80 CONDUIT WITH MICROLOOP LEAD-IN CABLES (BORED).
- X. INSTALL MICRO PROBE LOOP DETECTORS WITH 1000 FOOT.

UTILITY LEGEND

— GAS —	GAS MAIN
— WATER —	WATER MAIN
— SAN —	SEWER MAIN
— A —	AERIAL ELECTRIC CABLES
— UG FO —	UNDERGROUND FIBER OPTIC
— UG ELEC —	PROPOSED UNDERGROUND ELECTRIC CALBES



Gannett Fleming
 4701 Mt. Hope Drive
 Seton Business Park
 Baltimore, Maryland 21215
 410-585-1460

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
**DORSEY RUN ROAD AT GUILFORD ROAD
 ROADWAY IMPROVEMENTS**

APPROVALS	REVISIONS	TRAFFIC SIGNALIZATION PLAN
TEAM LEADER		SCALE 1"=20' DATE MAY 2006 CONTRACT NO.
ASST. DIV. CHIEF		DESIGNED BY DKS COUNTY HOWARD
DIVISION CHIEF		DRAWN BY DKS LOGMILE
OFFICE DIRECTOR		CHECKED BY ICC T.I.M.S. NO.
		F.A.P. NO. TOD NO.
		DRAWING NO. - OF SHEET NO. 86 OF 156

FILE: H:\TRAN\gull for d\Signal\GF_SignalPlan\SG01Gull for d_Study.dgn
 DATE: 15-JUN-2006 14:26

BORDER REV. DATE: June 1, 2004



PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE GUILFORD ROAD AT DORSEY RUN ROAD INTERSECTION. RECONSTRUCTION OF THE TRAFFIC SIGNAL IS REQUIRED. GUILFORD ROAD IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION, DORSEY RUN ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE AS IN EXISTING CONDITIONS. THIS SIGNAL IS INTERCONNECTED TO THE EASTBOUND MD 32/ DORSEY RUN ROAD AND THE WESTBOUND MD 32/ DORSEY RUN ROAD SIGNALIZED INTERSECTIONS.

CONTROLLER REQUIREMENTS

THE SAMPLING DETECTION REGIONS SHALL BE MONITORED / ACTUATED WITH VIDEO-DETECTION CAMERAS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

PROJECT CONTACTS:

- MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8140
- MR. DAVE COYNE, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 624-8105
- MR. JAMES BUCKALEW, ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (301) 624-8115
- MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00 - 30, 104.12 - 01, 104.13 - 01, 104.31 - 01, 104.32 - 01, 104.81 - 02

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	MASTER LOCAL CONTROLLER AND CABINET SIZE 6	EA	1
973023	FLAT SHEET ALUMINUM SIGNS (BLUE OR GREEN)	SF	44.5
	3 EA R3-5 (30" X 36")	SF	22.5
	6 EA GUIDE SHIELD ASSEMBLY (16" X 32")	SF	22.0

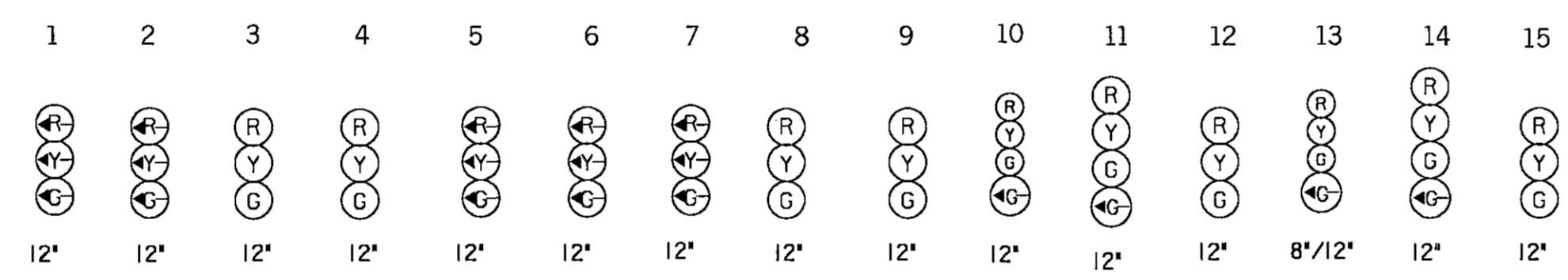
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	1.0
585424	24 INCH HEAT APPLIED WHITE PERM. PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	112.5
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	4.7
801607	INSTALL OVERHEAD SIGN	SF	44.5
805105	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	167.0
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	141.0
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	456.0
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	13.0
805150	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	LF	104.0
805160	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	LF	20.0
810550	MICROLOOP PROBE, 500 FOOT LEAD-IN CABLE	EA	4.0
810555	MICROLOOP PROBE, 1000 FOOT LEAD-IN CABLE	EA	1.0
811001	F&H/HANDHOLE	EA	9.0
816001	VIDEO DETECTOR CAMERA	EA	2.0
816010	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	2.0
818050	STEEL POLE WITH TWIN 50 FOOT AND 60 FOOT MAST ARMS	EA	1.0
832020	BARE COPPER GROUND WIRE, NO. 6 AWG	LF	220.0
837001	GROUND ROD - 3/4 INCH DIA. X 10 FT LENGTH	EA	1.0
860265	RELOCATE EXISTING SIGNAL HEAD	EA	1.0
860270	8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	6.0
860284	12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	40.0
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	130.0
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1190.0
862102	SAWCUT FOR LOOP DETECTOR	LF	112.0
873001	REMOVAL AND SALVAGE EXIST. EQUIPMENT	LS	1.0
800000	REMOVE EXISTING SIGNAL HEAD	EA	1.0

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

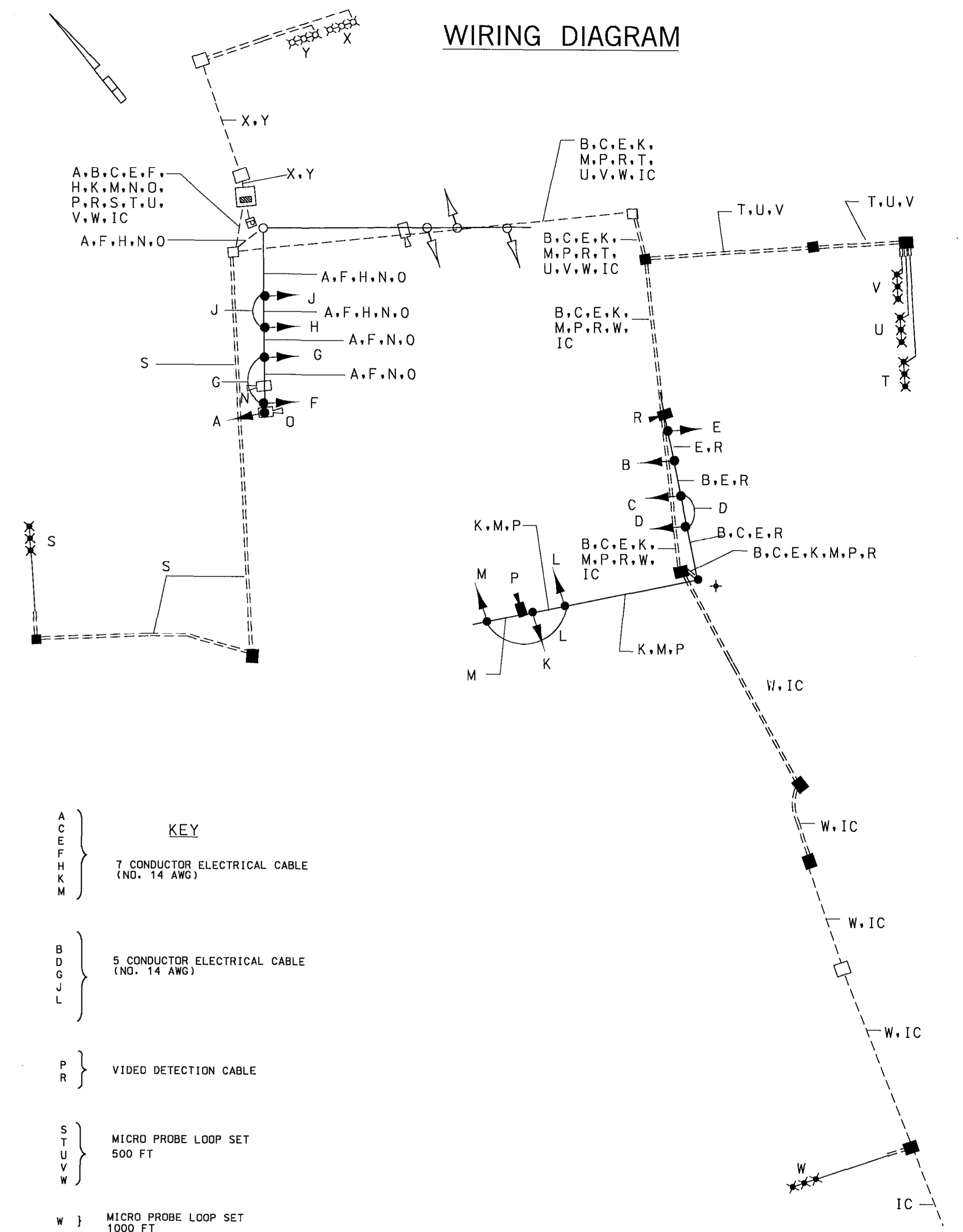
PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 AND 5	+G	+G	R	R	+G	+G	+G	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6															
PHASE 1 AND 6	+G	+G	G	G	+R	+R	+R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE	+Y	+Y	Y	Y	+R	+R	+R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	+R	+R	R	R	+G	+G	+G	G	G	R	R	R	R	R	R
2 AND 5 CHANGE	+R	+R	R	R	+Y	+Y	+Y	Y	Y	R	R	R	R	R	R
PHASE 2 AND 6	+R	+R	G	G	+R	+R	+R	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	+R	+R	Y	Y	+R	+R	+R	Y	Y	R	R	R	R	R	R
PHASE 3	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	+G/G	+G/G	G
3 CHANGE	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	Y	Y	Y
PHASE 4	+R	+R	R	R	+R	+R	+R	R	R	+G/G	+G/G	G	R	R	R
4 CHANGE	+R	+R	R	R	+R	+R	+R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / R	FL / R	FL / R	FL / R	FL / R	FL / R	FL / R



WIRING DIAGRAM



- KEY**
- A, C, E, F, H, K, M } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - B, D, G, J, L } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - P, R } VIDEO DETECTION CABLE
 - S, T, U, V, W } MICRO PROBE LOOP SET 500 FT
 - W } MICRO PROBE LOOP SET 1000 FT
 - N, O, X, Y } EXISTING CABLE
 - PS } POWER SERVICE UNDERGROUND
 - IC } INTERCONNECT CABLE
 - + } GROUND ROD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

DORSEY RUN ROAD AT GUILFORD ROAD ROADWAY IMPROVEMENTS

GENERAL INFORMATION

SCALE: _____ UNITS _____ DATE: MAY 2006 CONTRACT NO. _____

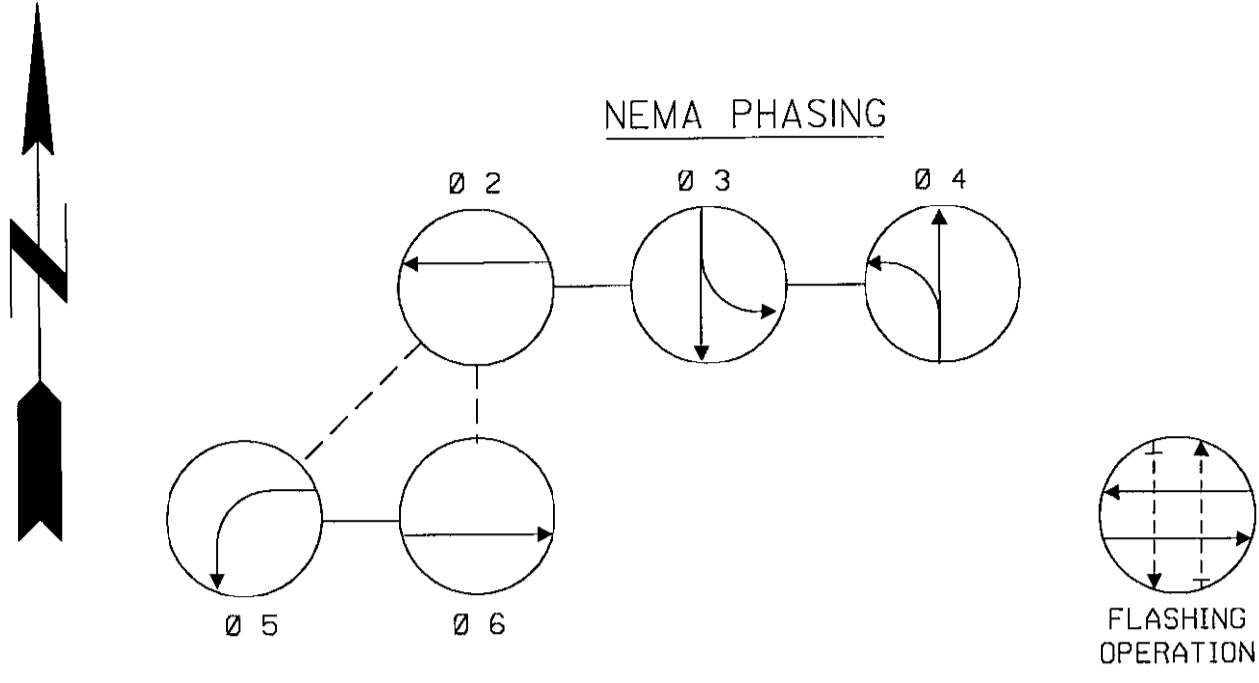
DESIGNED BY: DKS COUNTY: HOWARD
DRAWN BY: DKS LOGMILE: _____
CHECKED BY: TCC T.I.M.S. NO. _____
F.A.P. NO. _____ TOD NO. _____

DRAWING NO. _____ OF _____ SHEET NO. 87 OF 156

Gannett Fleming

4701 Mt. Hope Drive
Seton Business Park
Baltimore, Maryland 21215
410-585-1460

BORDER REV. DATE: June 1, 2004

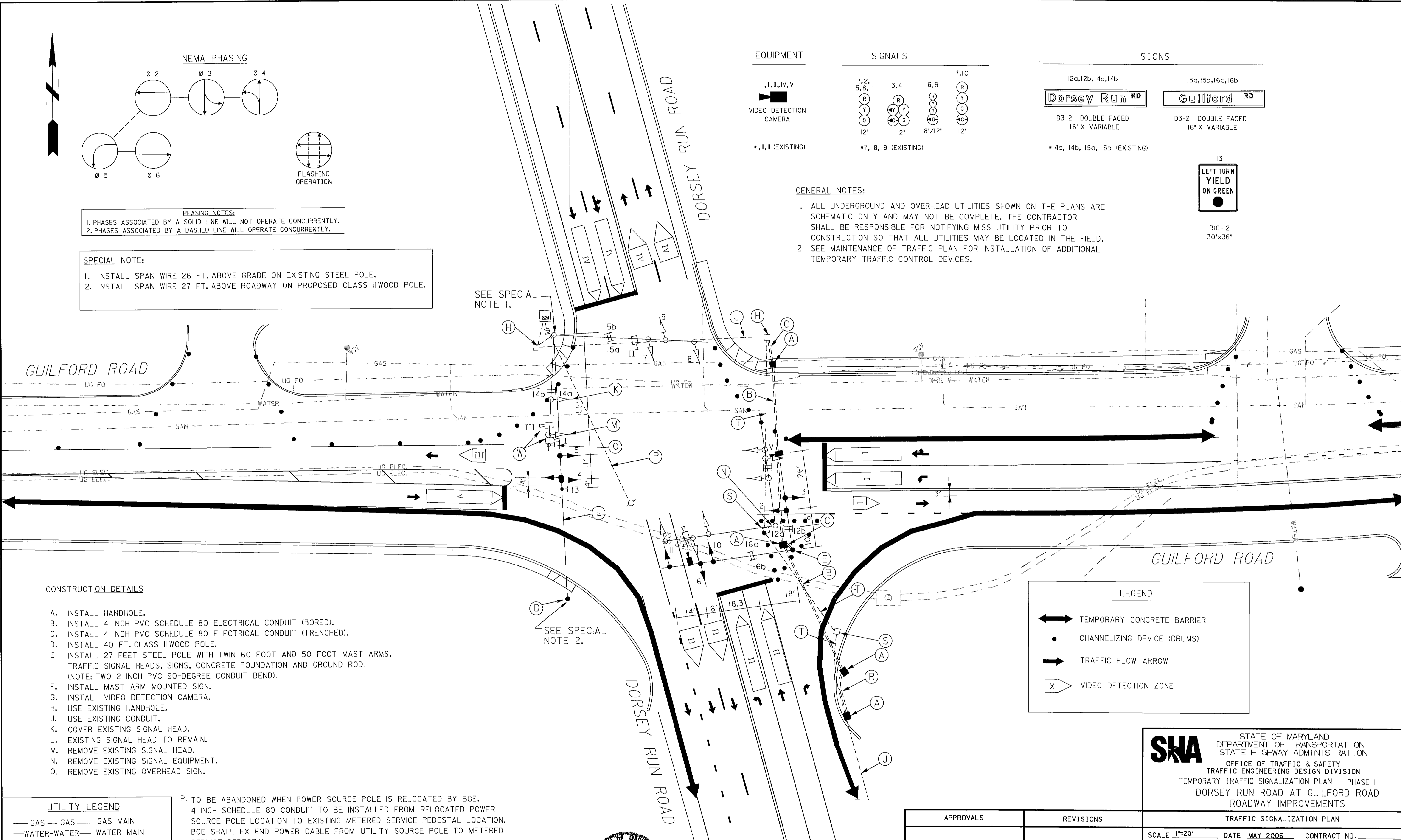


PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SPECIAL NOTE:
1. INSTALL SPAN WIRE 26 FT. ABOVE GRADE ON EXISTING STEEL POLE.
2. INSTALL SPAN WIRE 27 FT. ABOVE ROADWAY ON PROPOSED CLASS II WOOD POLE.

EQUIPMENT	SIGNALS	SIGNS
I, II, III, IV, V VIDEO DETECTION CAMERA *I, II, III (EXISTING)	1, 2, 5, 8, 11 3, 4 6, 9 7, 10 *7, 8, 9 (EXISTING)	12a, 12b, 14a, 14b 15a, 15b, 16a, 16b 13 R10-12 30"x36"

GENERAL NOTES:
1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD.
2. SEE MAINTENANCE OF TRAFFIC PLAN FOR INSTALLATION OF ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES.



CONSTRUCTION DETAILS

- A. INSTALL HANDHOLE.
- B. INSTALL 4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (BORED).
- C. INSTALL 4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- D. INSTALL 40 FT. CLASS II WOOD POLE.
- E. INSTALL 27 FEET STEEL POLE WITH TWIN 60 FOOT AND 50 FOOT MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, CONCRETE FOUNDATION AND GROUND ROD. (NOTE: TWO 2 INCH PVC 90-DEGREE CONDUIT BEND).
- F. INSTALL MAST ARM MOUNTED SIGN.
- G. INSTALL VIDEO DETECTION CAMERA.
- H. USE EXISTING HANDHOLE.
- J. USE EXISTING CONDUIT.
- K. COVER EXISTING SIGNAL HEAD.
- L. EXISTING SIGNAL HEAD TO REMAIN.
- M. REMOVE EXISTING SIGNAL HEAD.
- N. REMOVE EXISTING SIGNAL EQUIPMENT.
- O. REMOVE EXISTING OVERHEAD SIGN.
- P. TO BE ABANDONED WHEN POWER SOURCE POLE IS RELOCATED BY BGE. 4 INCH SCHEDULE 80 CONDUIT TO BE INSTALLED FROM RELOCATED POWER SOURCE POLE LOCATION TO EXISTING METERED SERVICE PEDESTAL LOCATION. BGE SHALL EXTEND POWER CABLE FROM UTILITY SOURCE POLE TO METERED SERVICE PEDESTAL.
- R. INSTALL 2 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- S. EXISTING HANDHOLE TO BE ABANDONED.
- T. EXISTING CONDUIT TO BE ABANDONED.
- U. INSTALL 3/8 IN. STEEL SPAN WIRE FROM PROPOSED WOOD POLE TO EXISTING STEEL POLE WITH TRAFFIC SIGNAL HEAD AND SIGNS AS SHOWN ON PLAN.
- W. REALIGN EXISTING VIDEO CAMERA.

UTILITY LEGEND

— GAS —	GAS MAIN
— WATER —	WATER MAIN
— SAN —	SEWER MAIN
— A —	AERIAL ELECTRIC CABLES
— UG FO —	UNDERGROUND FIBER OPTIC
— UG ELEC —	PROPOSED UNDERGROUND ELECTRIC CABLES

LEGEND

	TEMPORARY CONCRETE BARRIER
	CHANNELIZING DEVICE (DRUMS)
	TRAFFIC FLOW ARROW
	VIDEO DETECTION ZONE

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE I
DORSEY RUN ROAD AT GUILFORD ROAD
ROADWAY IMPROVEMENTS

APPROVALS	REVISIONS	TRAFFIC SIGNALIZATION PLAN
TEAM LEADER		SCALE 1"=20' DATE MAY 2006 CONTRACT NO.
ASST. DIV. CHIEF		DESIGNED BY DKS COUNTY HOWARD
DIVISION CHIEF		DRAWN BY DKS LOGMILE
OFFICE DIRECTOR		CHECKED BY TCC T. I. M. S. NO.
		F. A. P. NO. TOD NO.
		DRAWING NO. - OF SHEET NO. 88 OF 156



Gannett Fleming
4701 Mt. Hope Drive
Seton Business Park
Baltimore, Maryland 21215
410-585-1460

BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

GENERAL
 THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE GUILFORD ROAD AT DORSEY RUN ROAD INTERSECTION. RECONSTRUCTION OF THE TRAFFIC SIGNAL IS REQUIRED. GUILFORD ROAD IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION, DORSEY RUN ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE AS IN EXISTING CONDITIONS. THIS SIGNAL IS INTERCONNECTED TO THE EASTBOUND MD 32/ DORSEY RUN ROAD AND THE WESTBOUND MD 32/ DORSEY RUN ROAD SIGNALIZED INTERSECTIONS.

CONTROLLER REQUIREMENTS

THE SAMPLING DETECTION REGIONS SHALL BE MONITORED / ACTUATED WITH VIDEO-DETECTION CAMERAS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
 PHONE: (301) 624-8140

MR. DAVE COYNE, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
 PHONE: (301) 624-8105

MR. JAMES BUCKALEW, ASSISTANT DISTRICT ENGINEER - UTILITY
 PHONE: (301) 624-8115

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
 PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00 - 30, 104.12 - 01, 104.13 - 01, 104.31 - 01, 104.32 - 01, 104.81 - 02

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
114245	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS	LF	65.0
203030	TEST PIT EXCAVATION	CY	1.0
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	4.7
801607	INSTALL OVERHEAD SIGN	SF	22.5
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	141.0
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	17.0
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	13.0
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	4.0
816001	VIDEO DETECTOR CAMERA	EA	2.0
816010	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	2.0
818050	STEEL POLE WITH TWIN 50 FOOT AND 60 FOOT MAST ARMS	EA	1.0
832020	BARE COPPER GROUND WIRE, NO. 6 AWG	LF	374.0
837001	GROUND ROD - 3/4 INCH DIA. X 10 FT LENGTH	EA	2.0
860270	8" VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	3.0
860284	12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	27.0
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	130.0
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	880.0
869102	STEEL SPAN WIRE - 3/8 INCH DIAMETER	LF	720.0
873001	REMOVAL AND SALVAGE EXIST. EQUIPMENT	LS	1.0
800000	REMOVE EXISTING SIGNAL HEAD	EA	1.0
800000	40 FT. CALSSS II WOOD POLE	EA	1.0

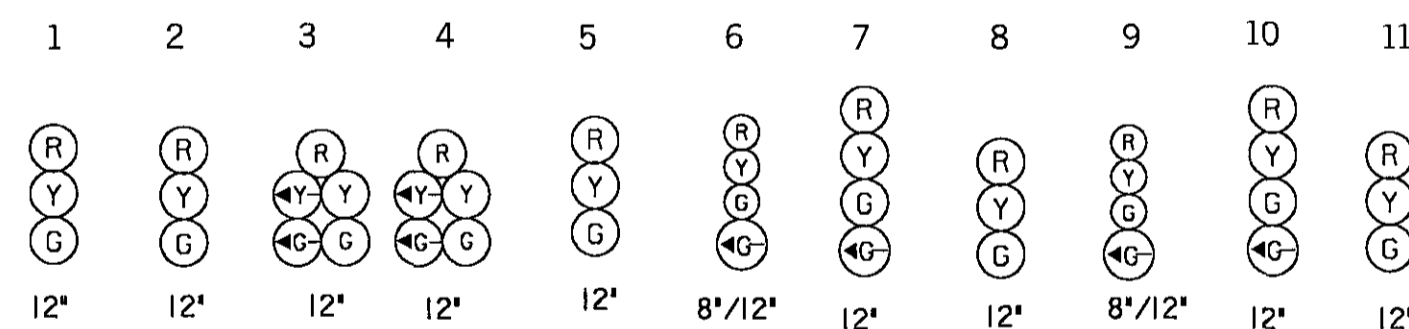
C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.
 ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST

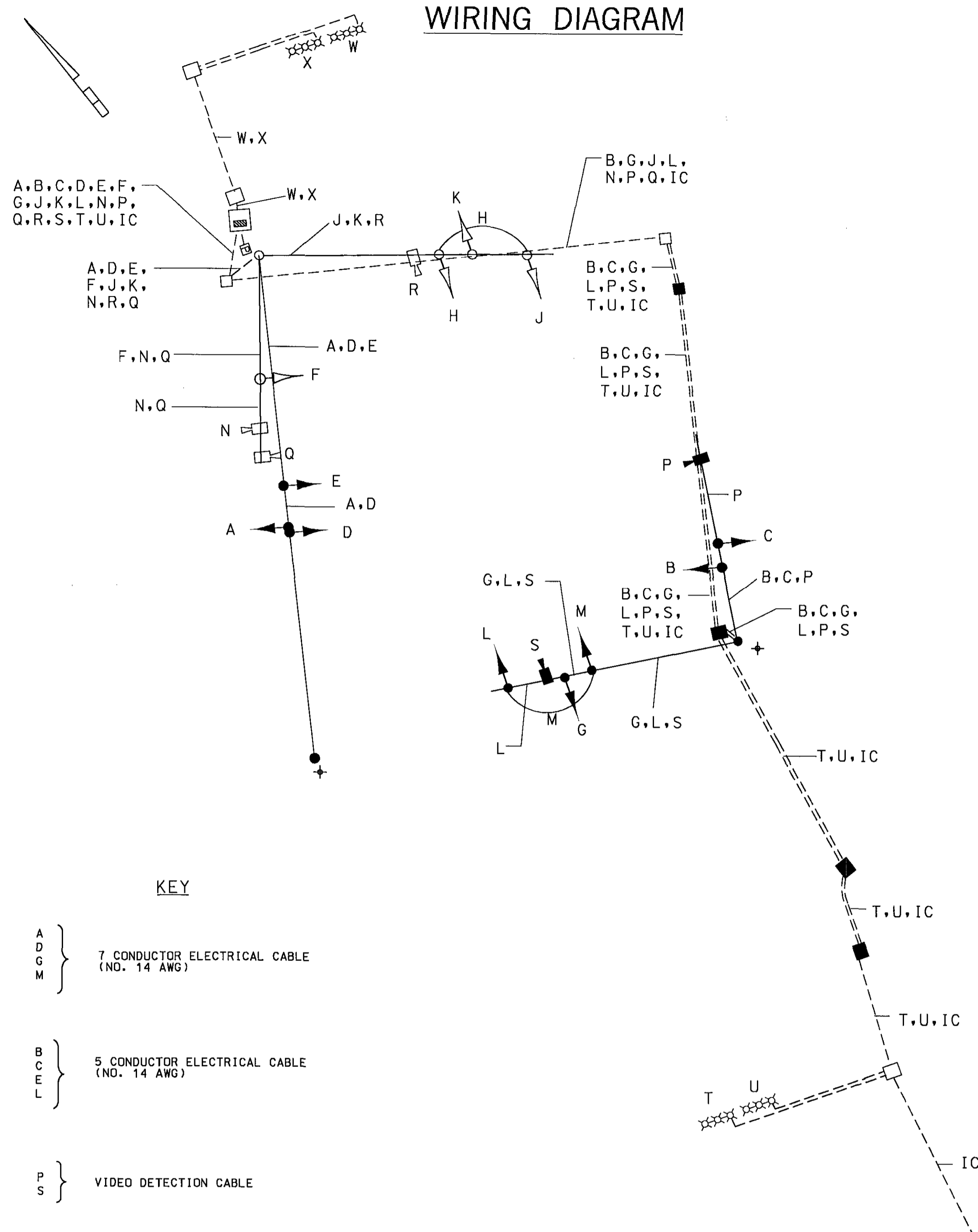
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	MASTER LOCAL CONTROLLER AND CABINET SIZE 6	EA	1
973023	FLAT SHEET ALUMINUM SIGNS (BLUE OR GREEN)	SF	22.5
	1 EA R10-12 (30" X 36")	SF	7.5
	4 EA GUIDE SHIELD ASSEMBLY (16" X 32")	SF	15.0

PHASE CHART



PHASE 2 AND 5	R	R	←G/G	←G/G	G	R	R	R	R	R	R	←
2 AND 5 CHANGE	R	R	←Y	←Y	G	R	R	R	R	R	R	↙↘
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	R	R	→
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	R	→
PHASE 3	R	R	R	R	R	R	R	R	←G	←G	G	↓
3 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	↓
PHASE 4	R	R	R	R	R	←G	←G	G	R	R	R	↑
4 CHANGE	R	R	R	R	R	Y	Y	Y	R	R	R	↑
FLASHING OPERATION	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / R	FL / R	FL / R	↕



KEY

- A D C M } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B C E L } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- P S } VIDEO DETECTION CABLE
- F H J K N O R T U W X } EXISTING CABLE
- PS POWER SERVICE UNDERGROUND
- IC INTERCONNECT CABLE
- + GROUND ROD

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 TEMPORARY SIGNAL PLAN - PHASE 1
 DORSEY RUN ROAD AT GUILFORD ROAD
 ROADWAY IMPROVEMENTS

GENERAL INFORMATION
 SCALE NTS DATE MAY 2006 CONTRACT NO. _____

Gannett Fleming
 4701 Mt. Hope Drive
 Seton Business Park
 Baltimore, Maryland 21215
 410-585-1460

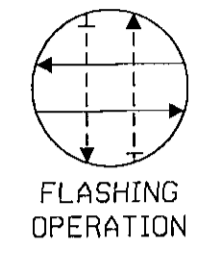
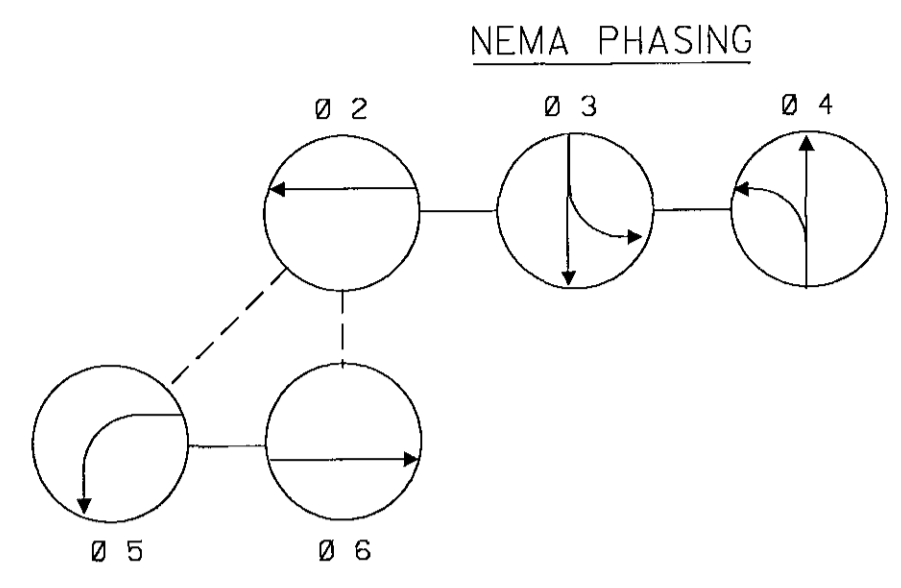
DESIGNED BY DKS COUNTY HOWARD
 DRAWN BY DKS LOGMILE _____
 CHECKED BY TCC T.I.M.S. NO. _____
 F.A.P. NO. _____ TOD NO. _____
 DRAWING NO. _____ OF _____ SHEET NO. 89 OF 156

BORDER REV. DATE: JUN 1, 2004

DRILL HOLES

DRILL HOLES

DRILL HOLES

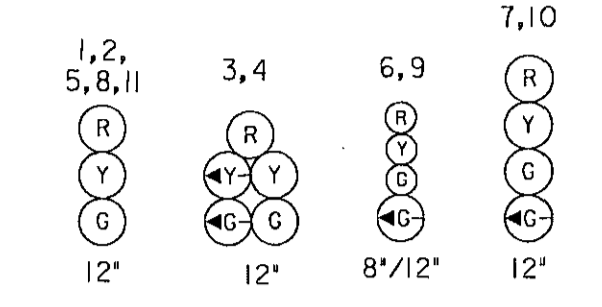


PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

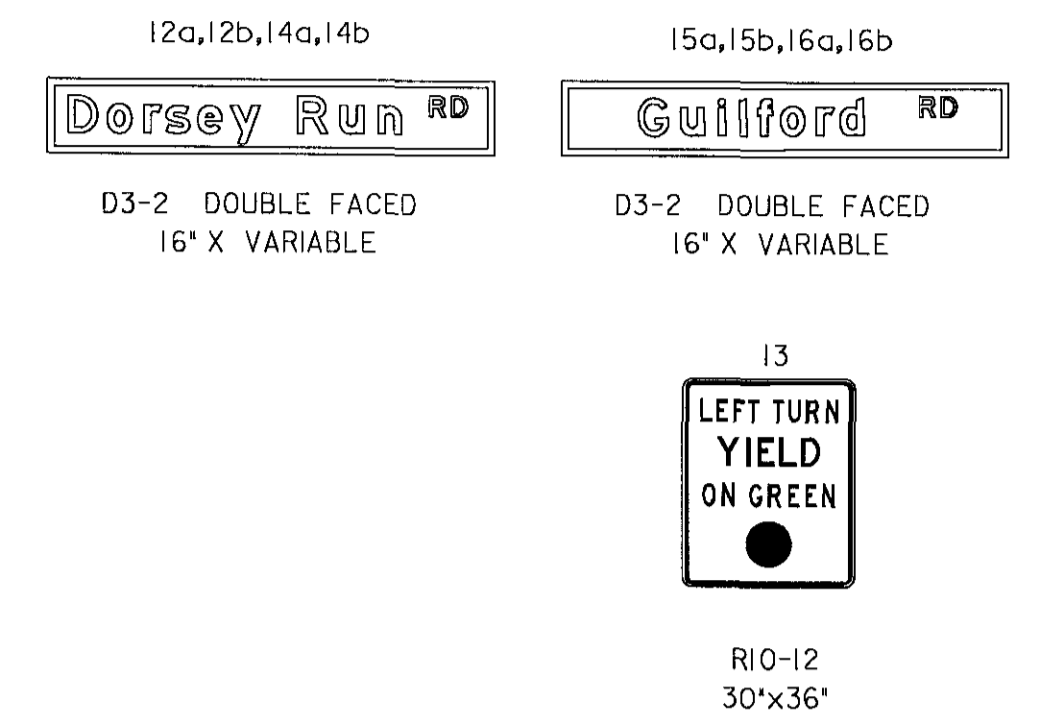
EQUIPMENT



SIGNALS



SIGNS



GUILFORD ROAD

DORSEY RUN ROAD

GUILFORD ROAD

DORSEY RUN ROAD

NOTE:

TEMPORARY SIGNAL PLAN FOR THIS PHASE IS THE SAME AS THE SIGNAL PLAN FOR PHASE I.

UTILITY LEGEND

— GAS —	— GAS —	— GAS MAIN
— WATER —	— WATER —	— WATER MAIN
— SAN —	— SAN —	— SEWER MAIN
— A —	— A —	— AERIAL ELECTRIC CABLES
— UG FO —	— UG FO —	— UNDERGROUND FIBER OPTIC
— UG ELEC —	— UG ELEC —	— PROPOSED UNDERGROUND ELECTRIC CABLES

LEGEND

	TEMPORARY CONCRETE BARRIER
	CHANNELIZING DEVICE (DRUMS)
	TRAFFIC FLOW ARROW
	VIDEO DETECTION ZONE

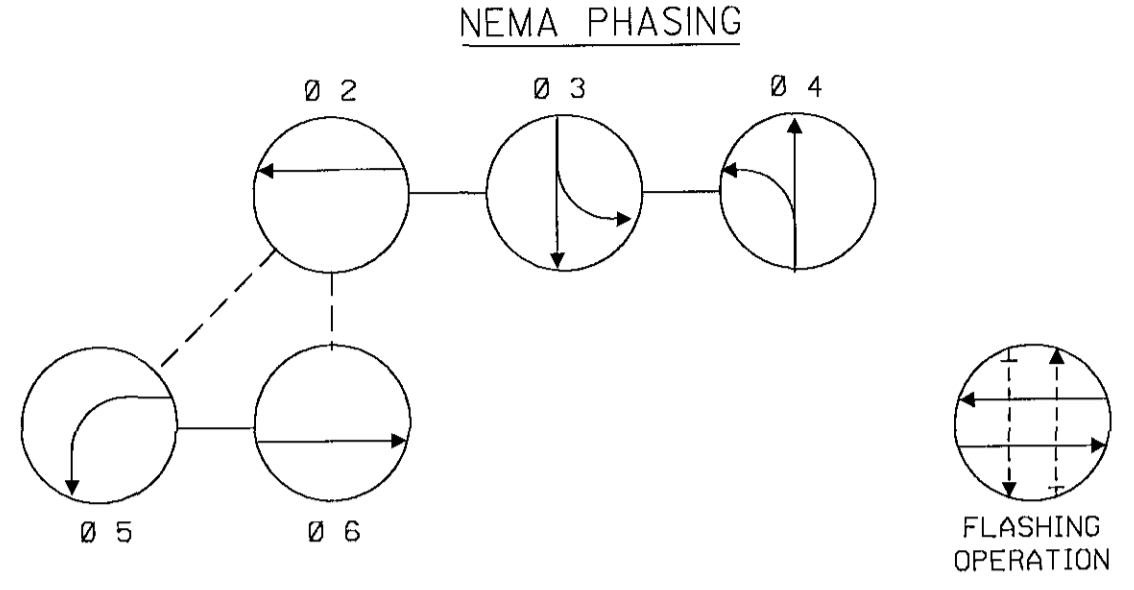
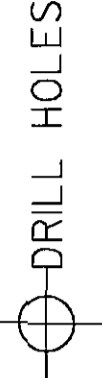
SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE IA
DORSEY RUN ROAD AT GUILFORD ROAD
ROADWAY IMPROVEMENTS

APPROVALS	REVISIONS	TRAFFIC SIGNALIZATION PLAN	
TEAM LEADER		SCALE 1"=20'	DATE MAY 2006 CONTRACT NO.
ASST. DIV. CHIEF		DESIGNED BY DKS	COUNTY HOWARD
DIVISION CHIEF		DRAWN BY DKS	LOGMILE
OFFICE DIRECTOR		CHECKED BY TCC	T.I.M.S. NO.
		F.A.P. NO.	TOD NO.
		DRAWING NO.	OF SHEET NO. 90 OF 156



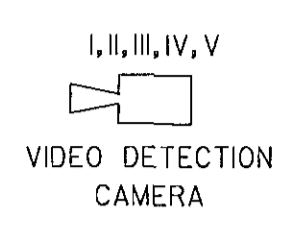
Gannett Fleming
4701 Mt. Hope Drive
Seton Business Park
Baltimore, Maryland 21215
410-585-1460

BORDER REV. DATE: JUNO 11, 2004

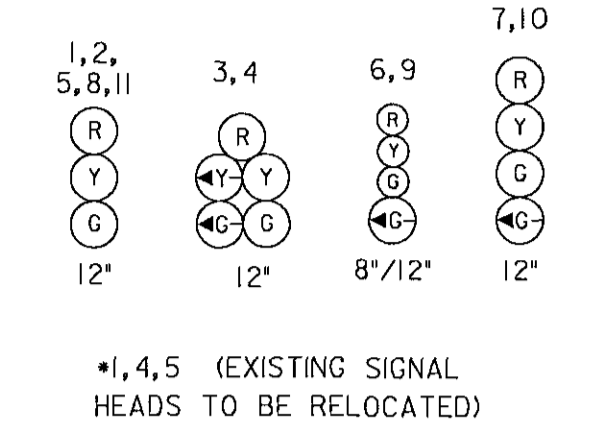


PHASING NOTES:
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

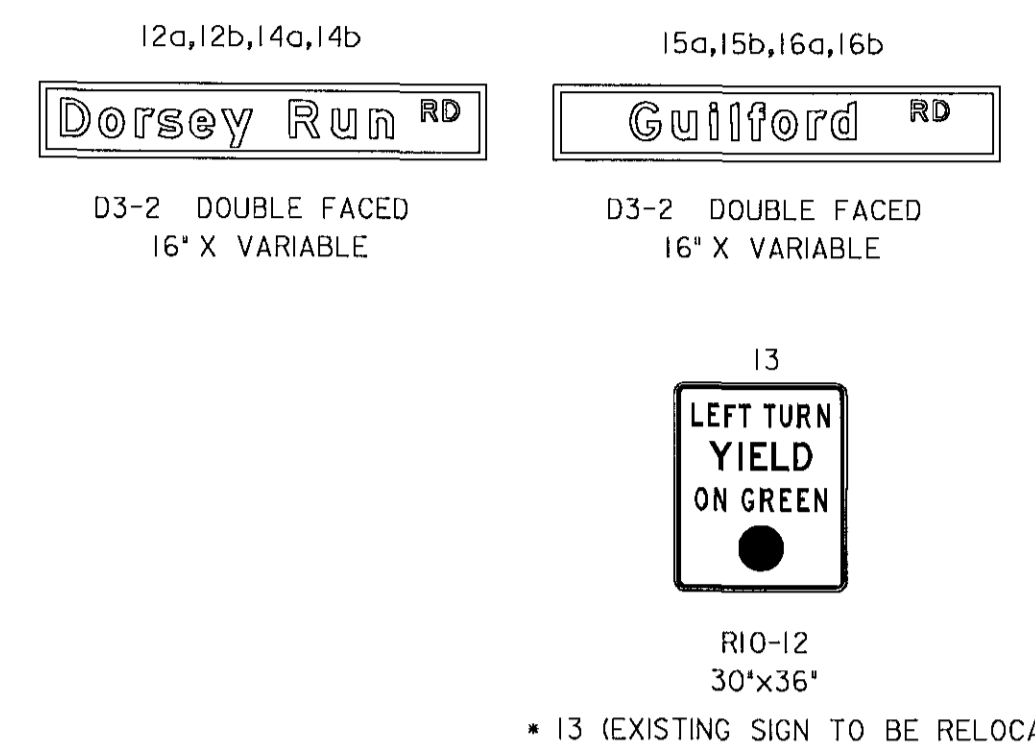
EQUIPMENT



SIGNALS



SIGNS



GUILFORD ROAD

DORSEY RUN ROAD

GUILFORD ROAD

DORSEY RUN ROAD

CONSTRUCTION DETAILS

- A. RELOCATE EXISTING SIGNAL HEAD TO PROPOSED LOCATION AS DIMENSIONED ON THE PLAN.
- B. RELOCATE EXISTING OVERHEAD SIGN.

NOTE:

ALL EQUIPMENTS, CONDUITS, HANDBOXES, ETC, INSTALLED FOR PHASE I WILL REMAIN DURING THIS PHASE.

UTILITY LEGEND

— GAS —	GAS MAIN
— WATER —	WATER MAIN
— SAN —	SEWER MAIN
— A —	AERIAL ELECTRIC CABLES
— UG FO —	UNDERGROUND FIBER OPTIC
— UG ELEC —	PROPOSED UNDERGROUND ELECTRIC CALBES

LEGEND

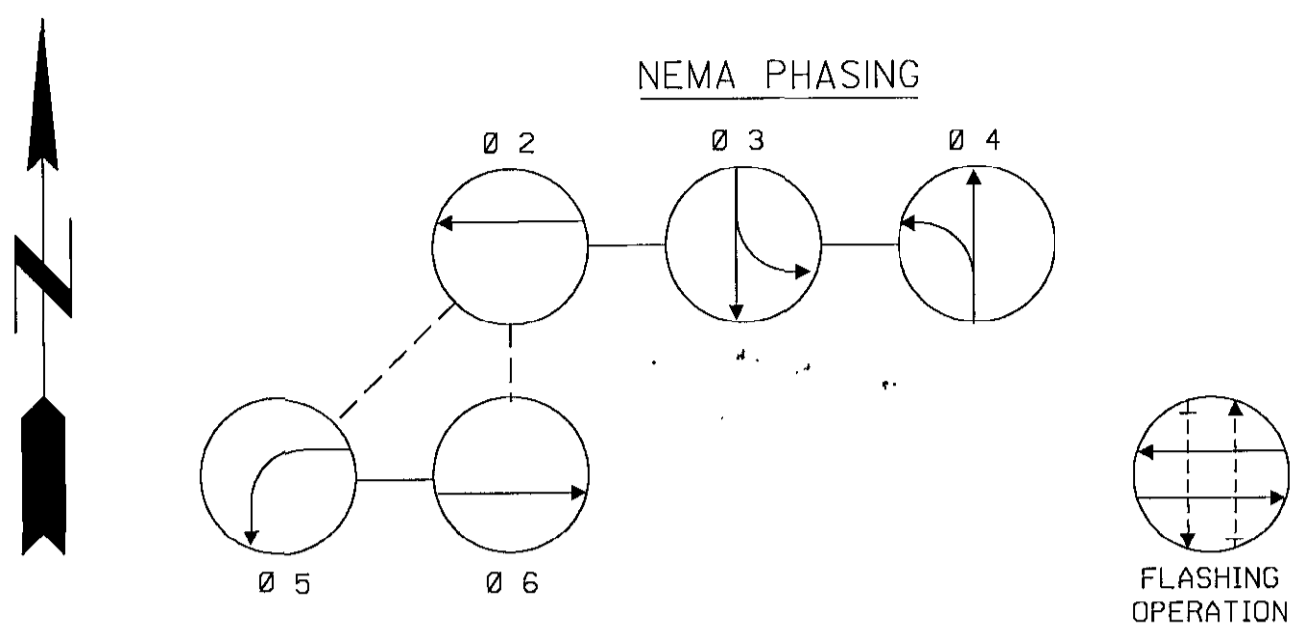
	TEMPORARY CONCRETE BARRIER
	CHANNELIZING DEVICE (DRUMS)
	TRAFFIC FLOW ARROW
	VIDEO DETECTION ZONE

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE 2A
 DORSEY RUN ROAD AT GUILFORD ROAD
 ROADWAY IMPROVEMENTS

APPROVALS	REVISIONS	TRAFFIC SIGNALIZATION PLAN	
TEAM LEADER		SCALE 1"=20'	DATE MAY 2006 CONTRACT NO.
ASST. DIV. CHIEF		DESIGNED BY DKS	COUNTY HOWARD
DIVISION CHIEF		DRAWN BY DKS	LOGMILE
OFFICE DIRECTOR		CHECKED BY ICC	T. I. M. S. NO.
		F. A. P. NO.	TOD NO.
		DRAWING NO.	OF SHEET NO. 91 OF 156

Gannett Fleming
 4701 Mt. Hope Drive
 Seton Business Park
 Baltimore, Maryland 21215
 410-585-1460





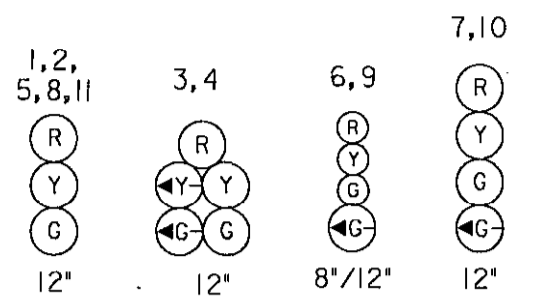
PHASING NOTES:
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

EQUIPMENT



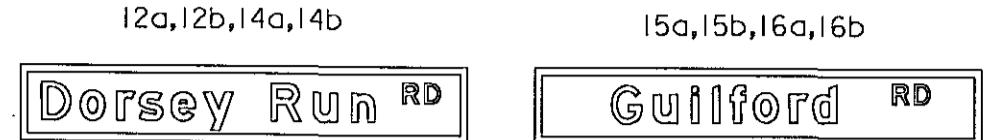
*I, III, V (EXISTING VIDEO CAMERA TO BE REALIGNED)

SIGNALS



*2,3,4,5 (EXISTING SIGNAL HEADS TO BE RELOCATED)

SIGNS



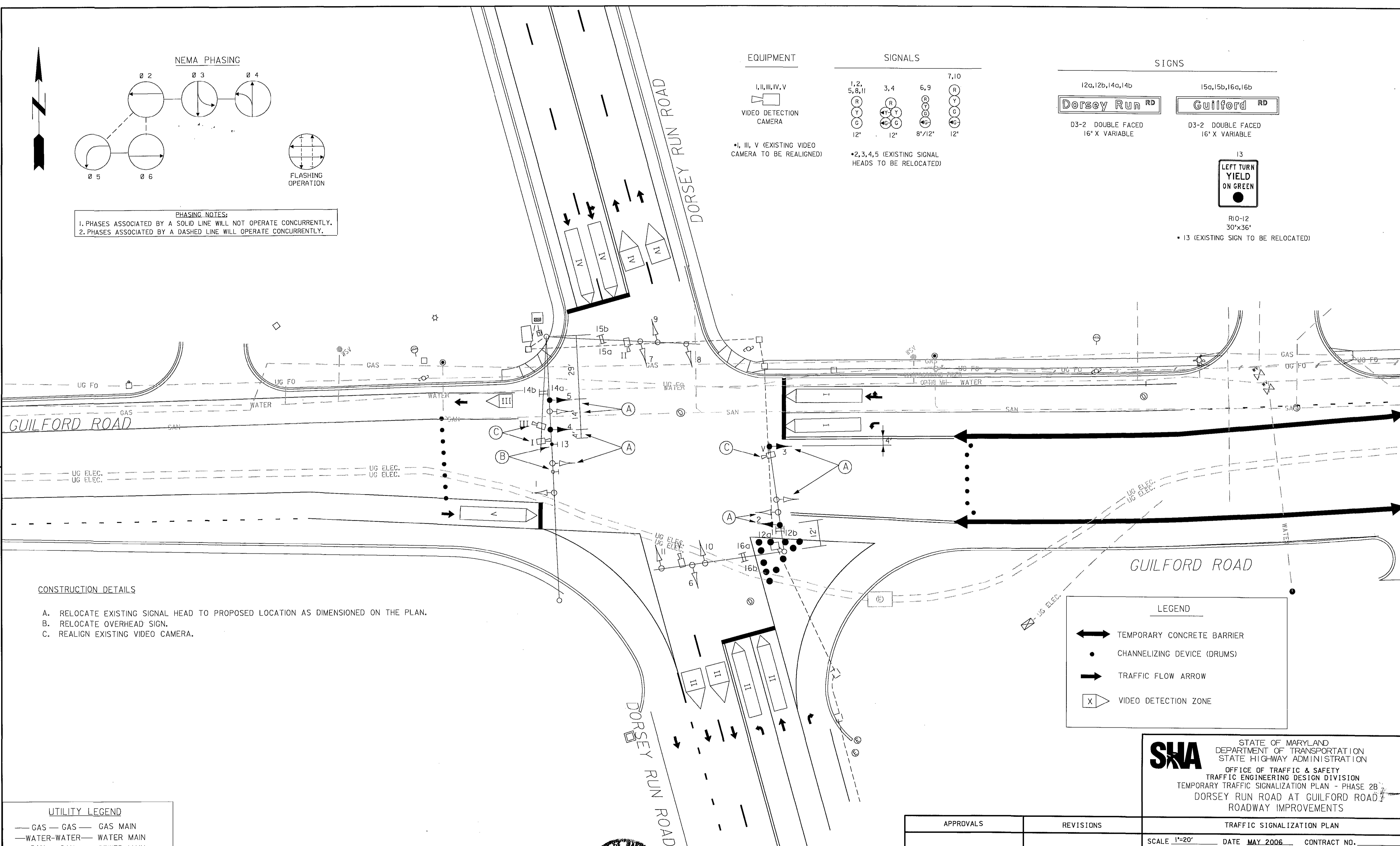
D3-2 DOUBLE FACED
16' X VARIABLE

D3-2 DOUBLE FACED
16' X VARIABLE



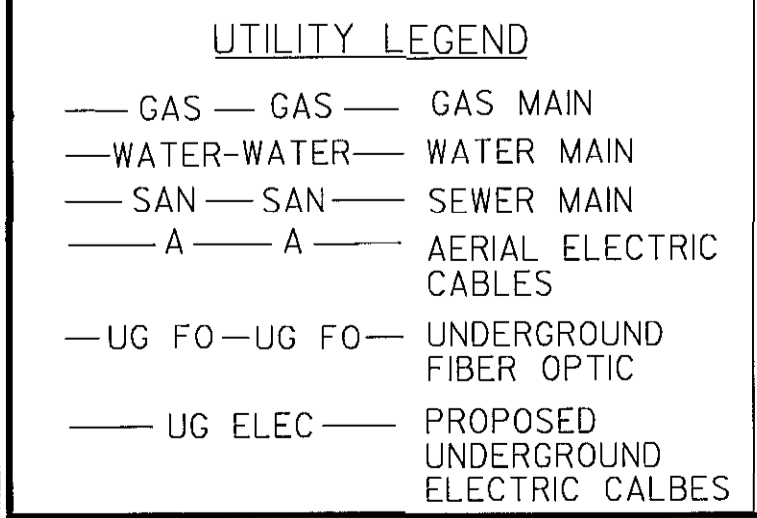
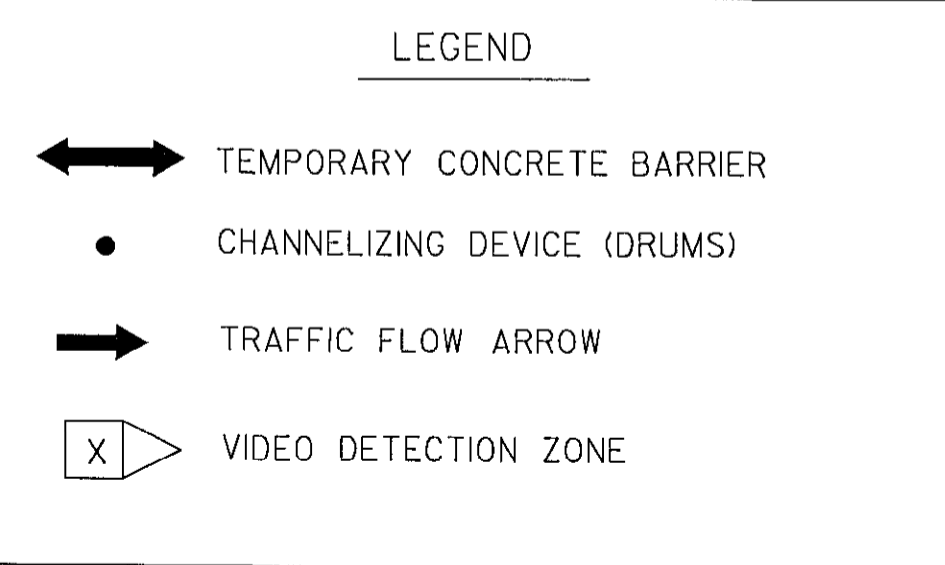
R10-12
30' X 36'

* 13 (EXISTING SIGN TO BE RELOCATED)



CONSTRUCTION DETAILS

- A. RELOCATE EXISTING SIGNAL HEAD TO PROPOSED LOCATION AS DIMENSIONED ON THE PLAN.
- B. RELOCATE OVERHEAD SIGN.
- C. REALIGN EXISTING VIDEO CAMERA.

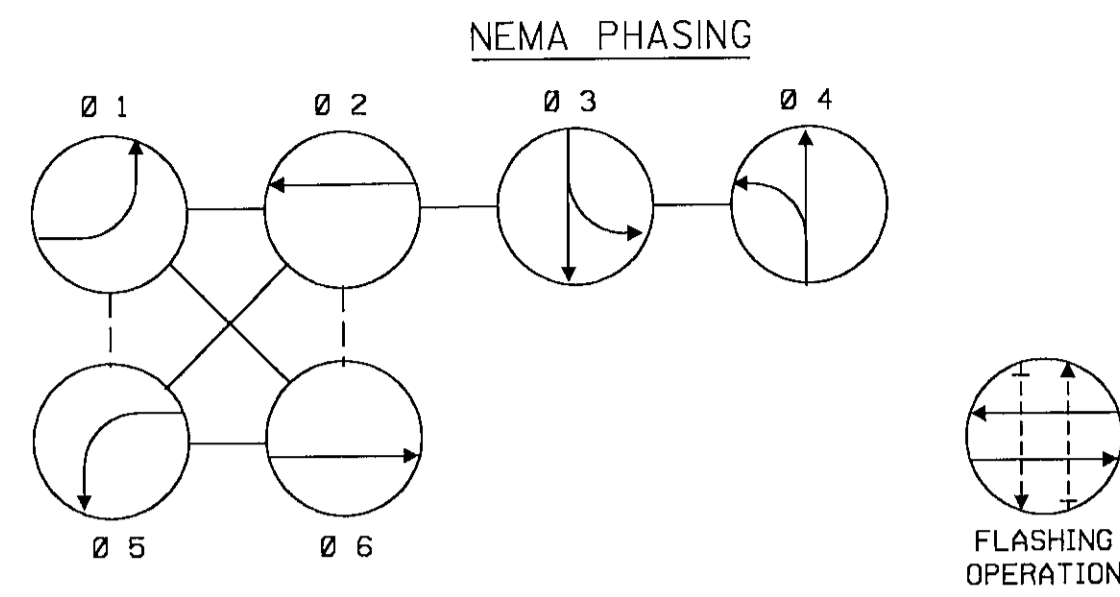


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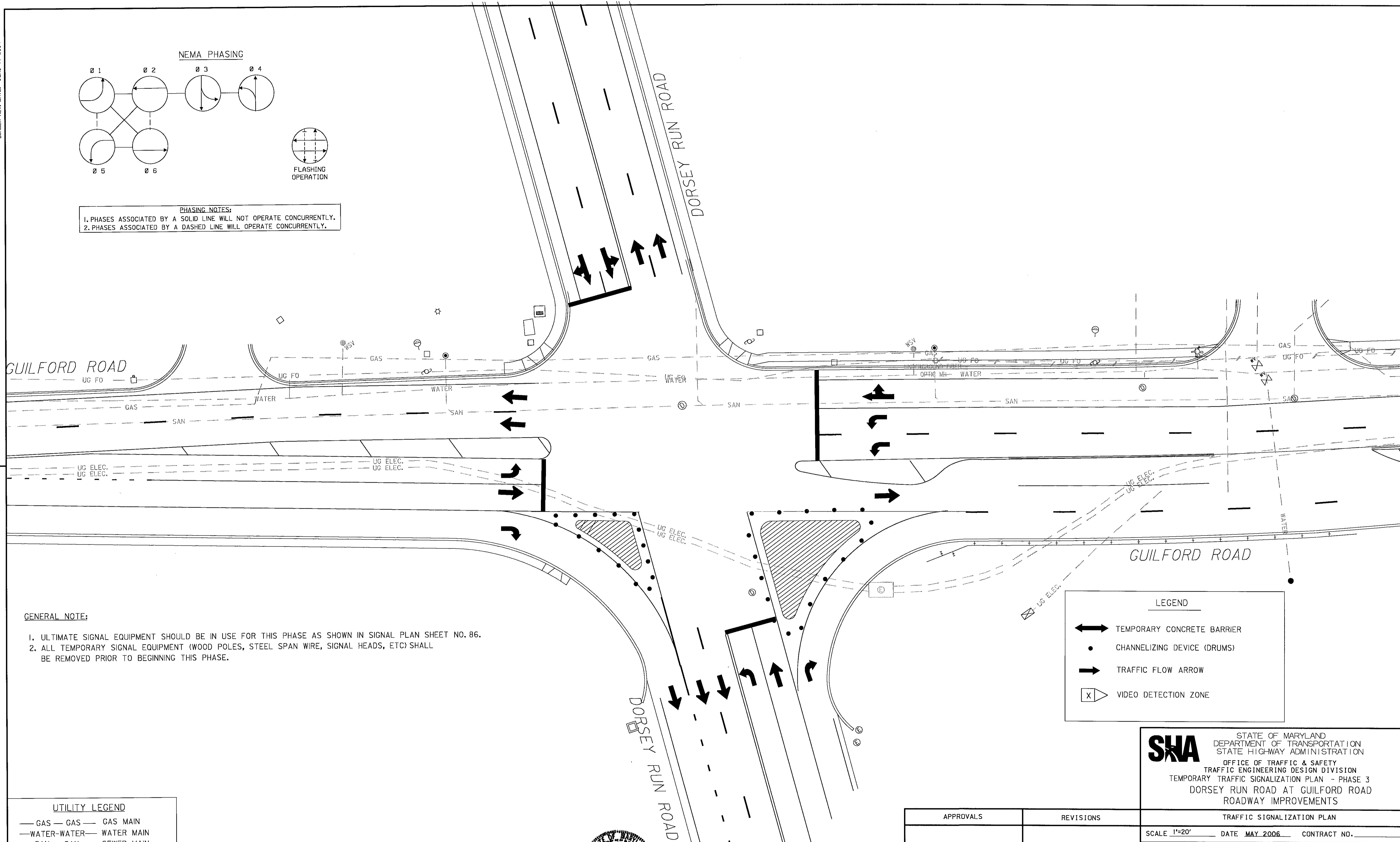
APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

TRAFFIC SIGNALIZATION PLAN		
SCALE 1"=20'	DATE MAY 2006	CONTRACT NO.
DESIGNED BY DKS	COUNTY HOWARD	
DRAWN BY DKS	LOGMILE	
CHECKED BY TCC	T.I.M.S. NO.	
F.A.P. NO.	TOD NO.	
DRAWING NO.	OF	SHEET NO. 92 OF 156

BORDER REV. DATE: June 1, 2004

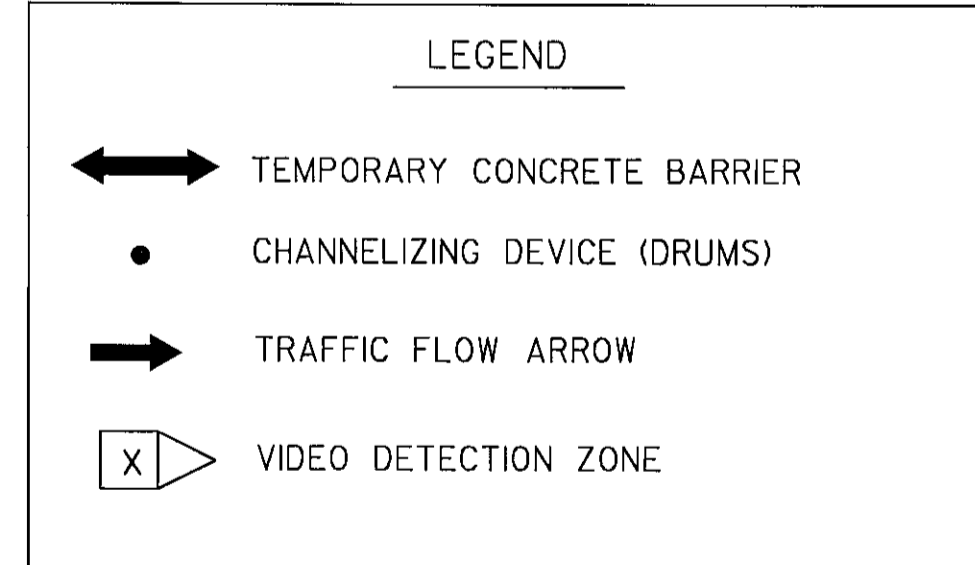


PHASING NOTES:
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.



GENERAL NOTE:

1. ULTIMATE SIGNAL EQUIPMENT SHOULD BE IN USE FOR THIS PHASE AS SHOWN IN SIGNAL PLAN SHEET NO. 86.
2. ALL TEMPORARY SIGNAL EQUIPMENT (WOOD POLES, STEEL SPAN WIRE, SIGNAL HEADS, ETC) SHALL BE REMOVED PRIOR TO BEGINNING THIS PHASE.



UTILITY LEGEND

— GAS —	GAS	— GAS MAIN
— WATER —	WATER	— WATER MAIN
— SAN —	SAN	— SEWER MAIN
— A —	A	— AERIAL ELECTRIC CABLES
— UG FO —	UG FO	— UNDERGROUND FIBER OPTIC
— UG ELEC —	UG ELEC	— PROPOSED UNDERGROUND ELECTRIC CALBES

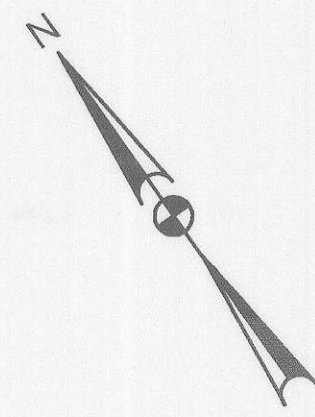


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 4701 Mt. Hope Drive
 Seton Business Park
 Baltimore, Maryland 21215
 410-585-1460

APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE 3
 DORSEY RUN ROAD AT GUILFORD ROAD
 ROADWAY IMPROVEMENTS

TRAFFIC SIGNALIZATION PLAN		
SCALE 1"=20'	DATE MAY 2006	CONTRACT NO.
DESIGNED BY DKS	COUNTY HOWARD	
DRAWN BY DKS	LOGMILE	
CHECKED BY TCC	T. I. M. S. NO.	
F. A. P. NO.	TOO NO.	
DRAWING NO.	OF	SHEET NO. 93 OF 156



LIMIT OF WORK
DORSEY RUN ROAD
STA. 20+85.80
CONTRACT NO. J-4175

LIMIT OF WORK
GUILFORD ROAD
STA. 20+59.07
CONTRACT NO. J-4175

POT STA 16+85.44

17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50 21+00 21+50

L.O.W.

MATCH EXISTING
PAVEMENT MARKING

BEGIN DOUBLE
YELLOW CENTERLINE

MATCH LINE STA. 22+00 SEE SHEET SP02

RIGHT LANE
MUST
TURN RIGHT

R3-7(R)
30X30

B CONST.
GUILFORD RD.
21+50

B CONST.
GUILFORD RD.
20+50

STOP STOP

EX. WOODS

36X36
R-1

BELL ATLANTIC
CONC. PACT

STOP SIGN
ROAD SIGN

GAS VALVE
WATER VALVE
(TYP)

CHAIN LINK FENCE

RIGHT OF WAY

13'

12'

12'

13'

RIGHT OF WAY

EX. WOODS

CHAIN LINK FENCE

L.O.W.

21+4.18
DRIVE

MACADAM

1.5
D.W.L.C.

PROP
R/W

B CONSTRUCTION

PROP
R/W

50'

13' LANE 12' LANE 12' LANE 13' LANE

1' (TYP) P.G.E. P/R

EXISTING
GROUND

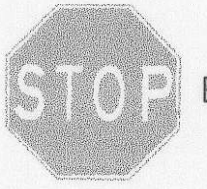
GUILFORD ROAD
TYPICAL PAVEMENT MARKING

PAVEMENT MARKING LEGEND

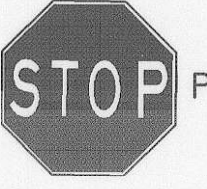
- (A) 5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (D) 5 INCH SOLID SKIP YELLOW THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (E) 16 INCH SOLID YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (ISLANDS AND HATCHING)
- (F) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (2 FOOT LINE WITH 6 FOOT SPACE)
- (G) 24 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP BAR)
- (H) 5 INCH SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (J) WHITE PREFORMED PAVEMENT MARKING ARROW
- (K) 8 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS

SIGNING AND PAVEMENT MARKING NOTES

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
2. "NEW" PAVEMENT MARKINGS SHALL TIE INTO EXISTING MARKINGS AT LOCATIONS SHOWN ON THE PLAN.
3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH "NEW" MARKINGS SHALL BE REMOVED (GROUND OFF).



EXISTING SIGN PANEL



PROPOSED SIGN PANEL

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

GANNETT
FLEMING, INC.

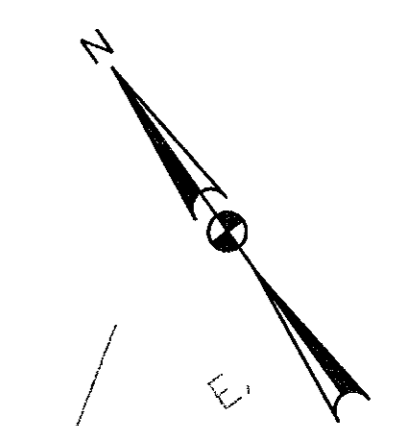


DES: DKS			
DRN: DKS			
CHK: TCC			
DATE: 8-06	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
STA 20+59 TO STA 22+00
CAPITAL PROJECT No. J-4175 AND B-3855

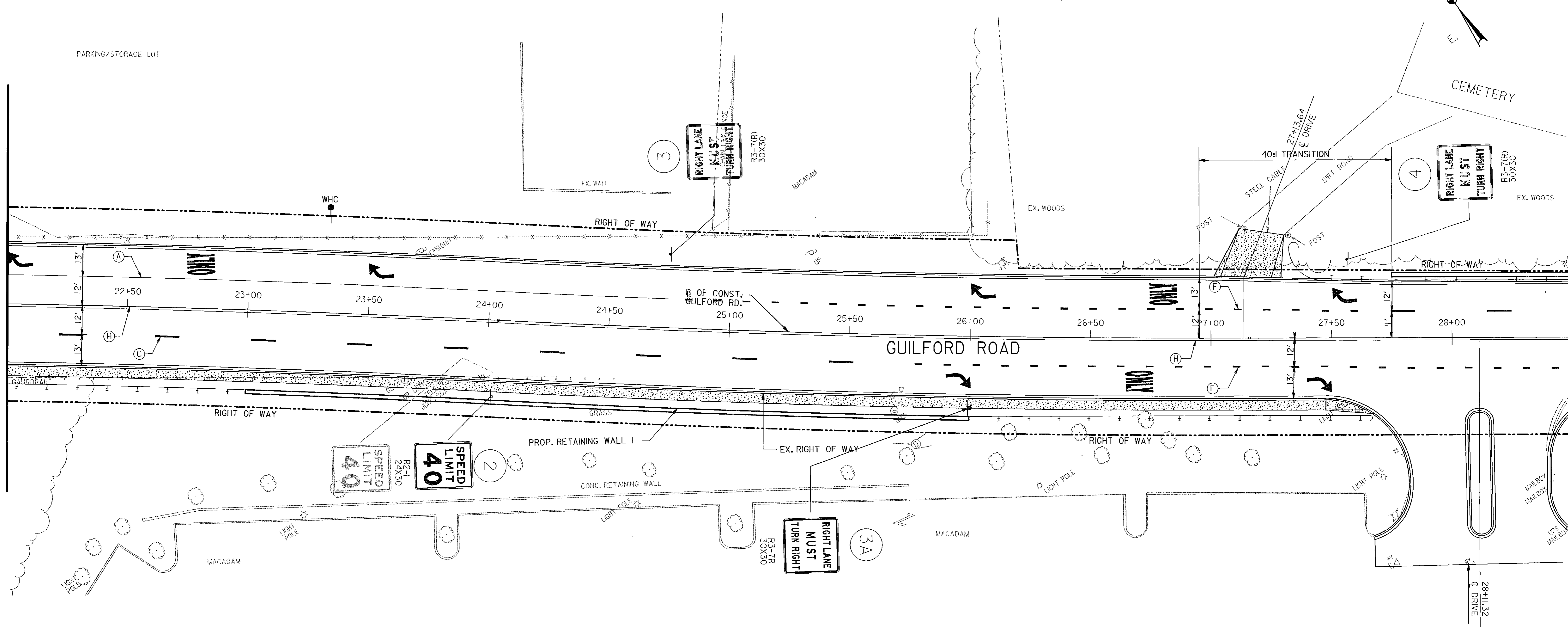
SP01
SCALE
1" = 20'
SHEET
94 OF 156

FONT: LIBRARY-SHAFFONTS
LINES: STYLE: LIBRARY-INDSHALS
DATE: 8/17/06
BY: JAVAN/gdli for c:\signal\p\rt\hkg Plans\sp01.dgn



MATCH LINE STA. 22+00 SEE SHEET SPO1

MATCH LINE STA. 28+50 SEE SHEET SPO3

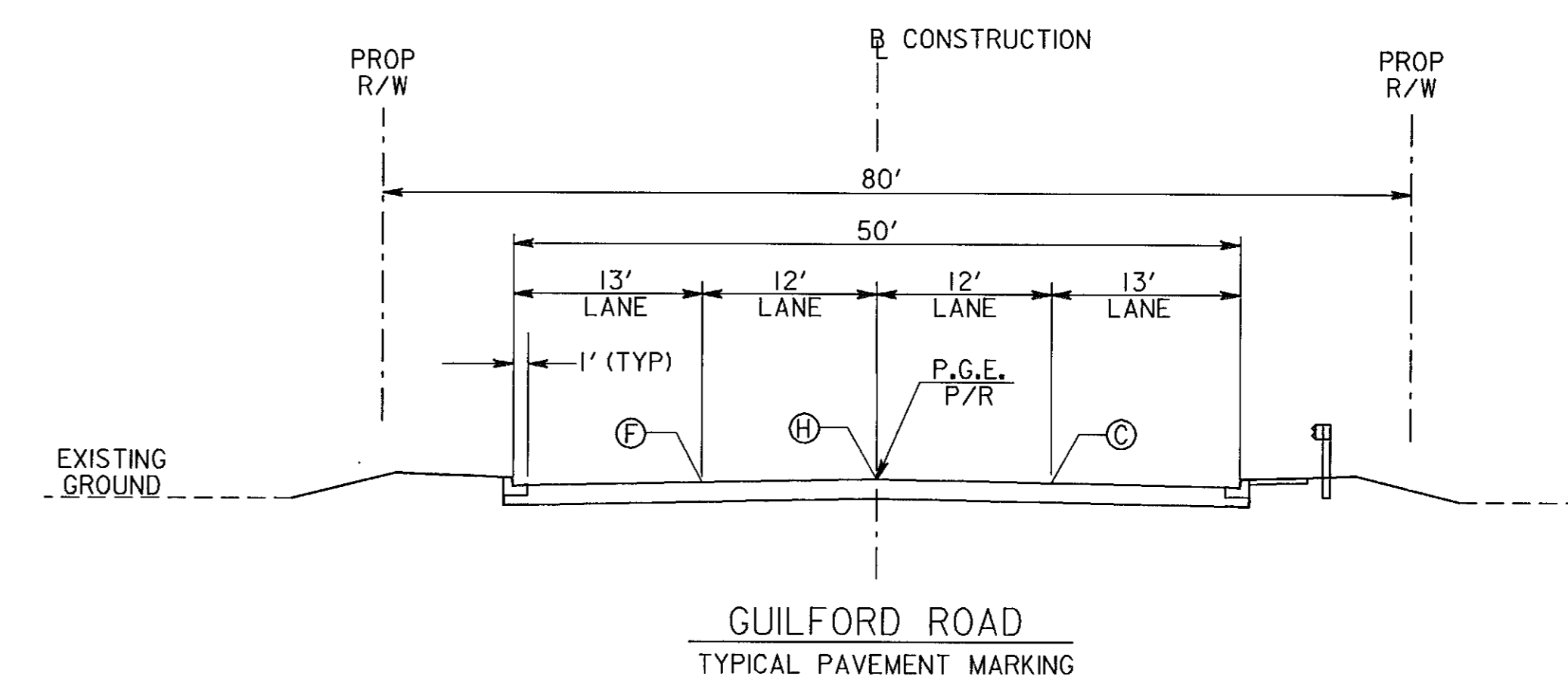
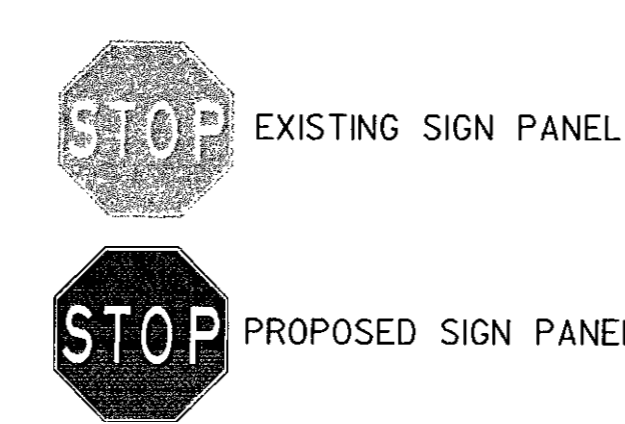


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (D) 5 INCH SOLID SKIP YELLOW THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (E) 16 INCH SOLID YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (ISLANDS AND HATCHING)
- (F) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (2 FOOT LINE WITH 6 FOOT SPACE)
- (G) 24 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP BAR)
- (H) 5 INCH SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (I) WHITE PREFORMED PAVEMENT MARKING ARROW
- (K) 8 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS

SIGNING AND PAVEMENT MARKING NOTES

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
2. 'NEW' PAVEMENT MARKINGS SHALL TIE INTO EXISTING MARKINGS AT LOCATIONS SHOWN ON THE PLAN.
3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH 'NEW' MARKINGS SHALL BE REMOVED (GROUND OFF).



FONT LIBRARY=SHAFONTS
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08/02/2006
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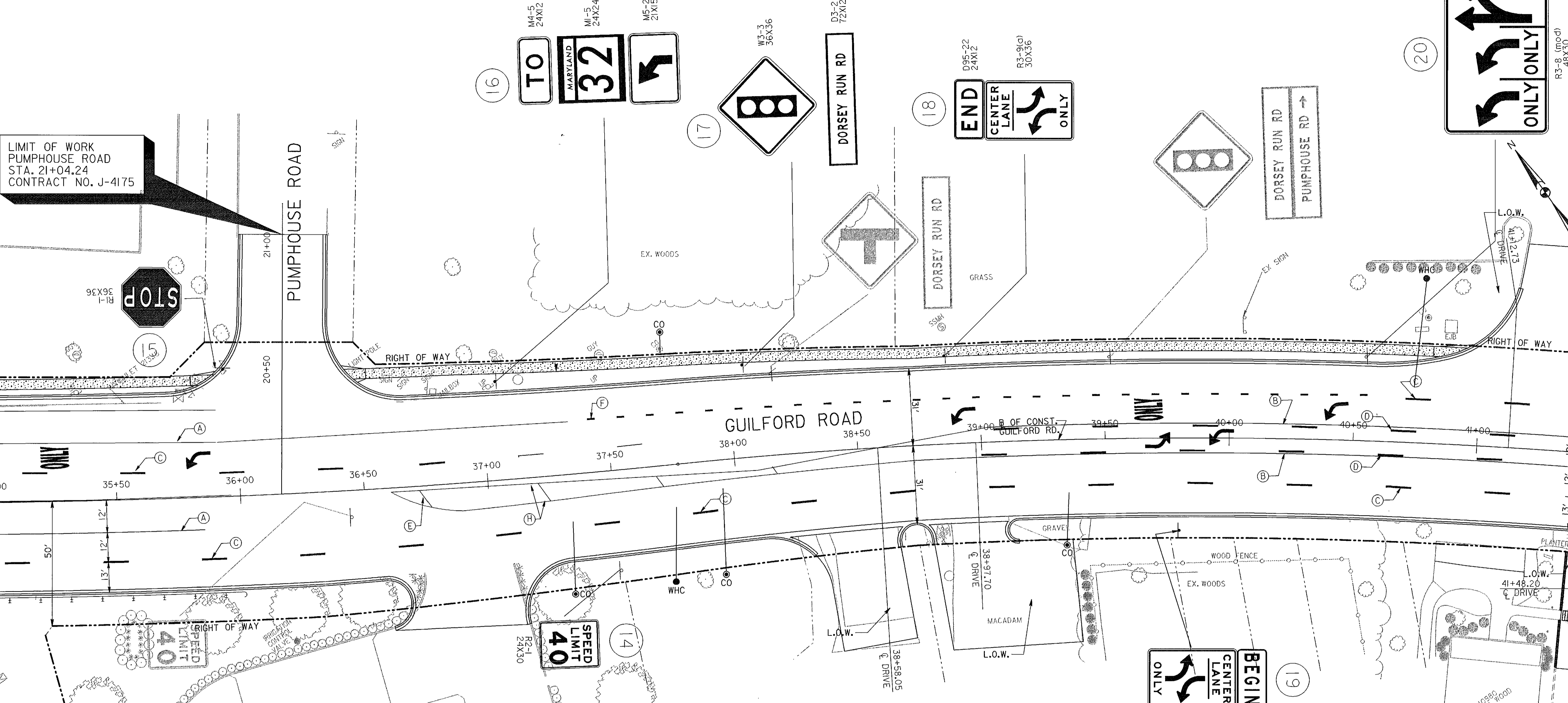
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC.		DES: DKS			
Director of Public Works <i>James M. Sullivan</i> 8/14 DATE	Chief, Bureau of Engineering <i>Charles P. Pappas</i> 5/17/06 DATE			DRN: DKS			
Chief, Bureau of Highways <i>William A. Caldwell</i> 8-8-06 DATE	Chief, Division of Transportation, Special Projects Division <i>John Stankovic</i> 8/7/06 DATE		CHK: TCC				
			DATE: 8-06	BY	NO.	DATE	

GUILFORD ROAD IMPROVEMENTS SIGNING AND PAVEMENT MARKING PLAN SHEET STA 22+00 TO STA 28+50 CAPITAL PROJECT No. J-4175 AND B-3855	SPO2 SCALE 1" = 20' SHEET 95 OF 156
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MATCH LINE STA. 35+00 SEE SHEET SP03

MATCH LINE STA. 41+50 SEE SHEET SP05

LIMIT OF WORK
PUMPHOUSE ROAD
STA. 21+04.24
CONTRACT NO. J-4175

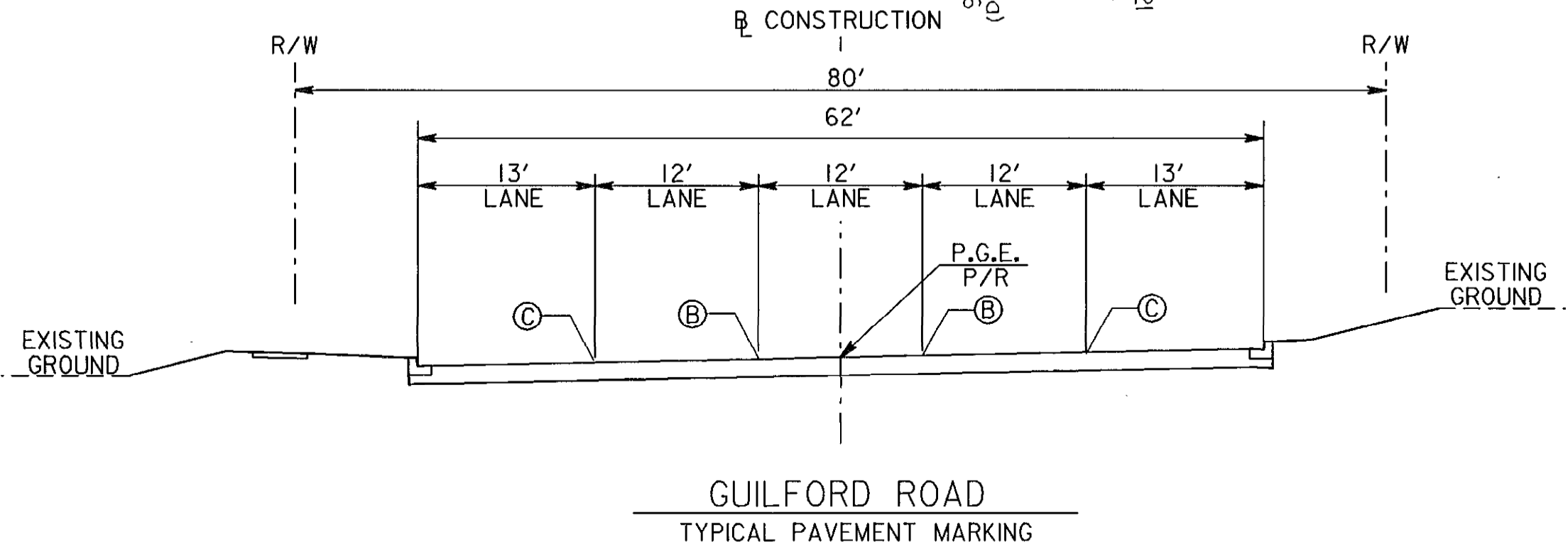
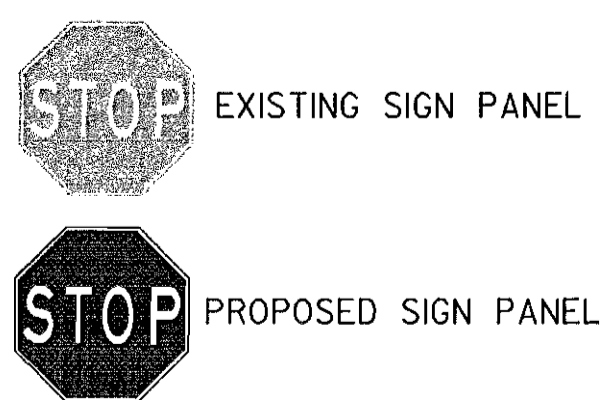


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (D) 5 INCH SOLID SKIP YELLOW THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (E) 16 INCH SOLID YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (ISLANDS AND HATCHING)
- (F) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (2 FOOT LINE WITH 6 FOOT SPACE)
- (G) 24 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP BAR)
- (H) 5 INCH SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (I) WHITE PREFORMED PAVEMENT MARKING ARROW
- (K) 8 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS

SIGNING AND PAVEMENT MARKING NOTES

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
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3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH "NEW" MARKINGS SHALL BE REMOVED (GROUND OFF).

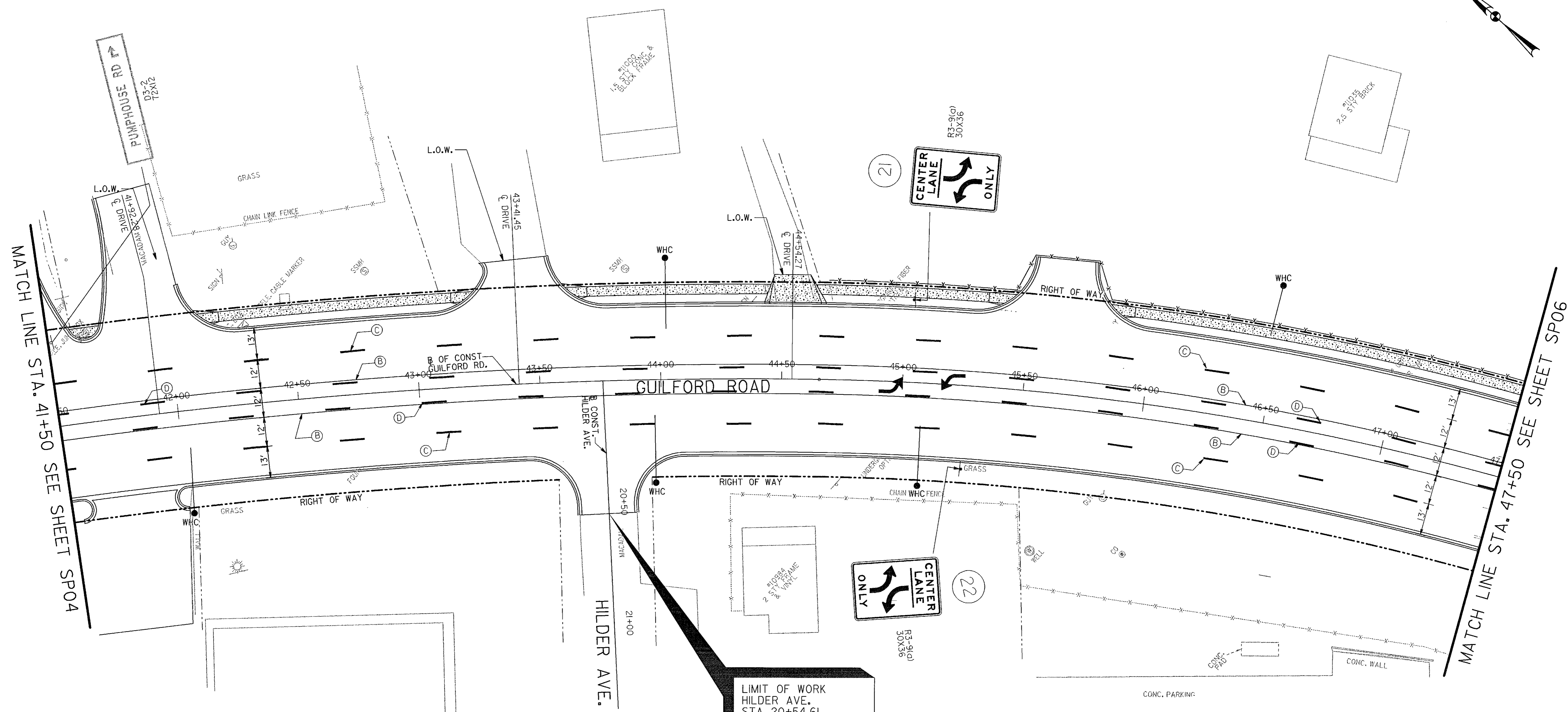
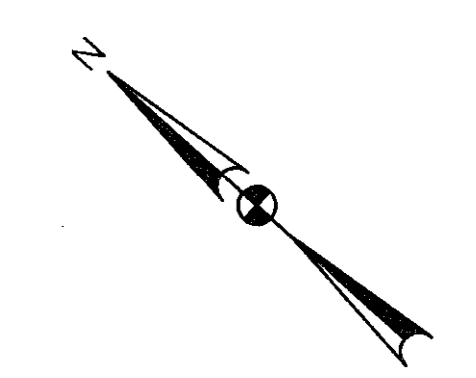


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 LINES: STYLE=LIBRARY=MDSHALS
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC. BALTIMORE, MARYLAND		 DES: DKS DRN: DKS CHK: TCC DATE: 8-06	
Director of Public Works <i>W. J. ...</i> DATE: 8-8-06	Chief, Bureau of Engineering <i>R. J. ...</i> DATE: 8/7/06	Chief, Division of Transportation, Special Projects Division <i>J. ...</i> DATE: 8/7/06			

GUILFORD ROAD IMPROVEMENTS SIGNING AND PAVEMENT MARKING PLAN SHEET STA 35+00 TO STA 41+50 CAPITAL PROJECT No. J-4175 AND B-3855		SCALE 1" = 20' SHEET 97 OF 156
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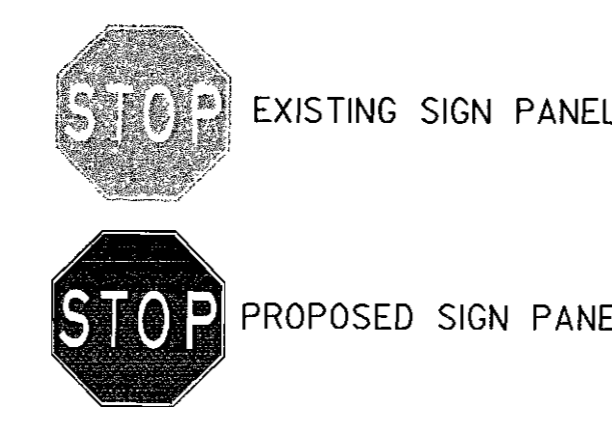
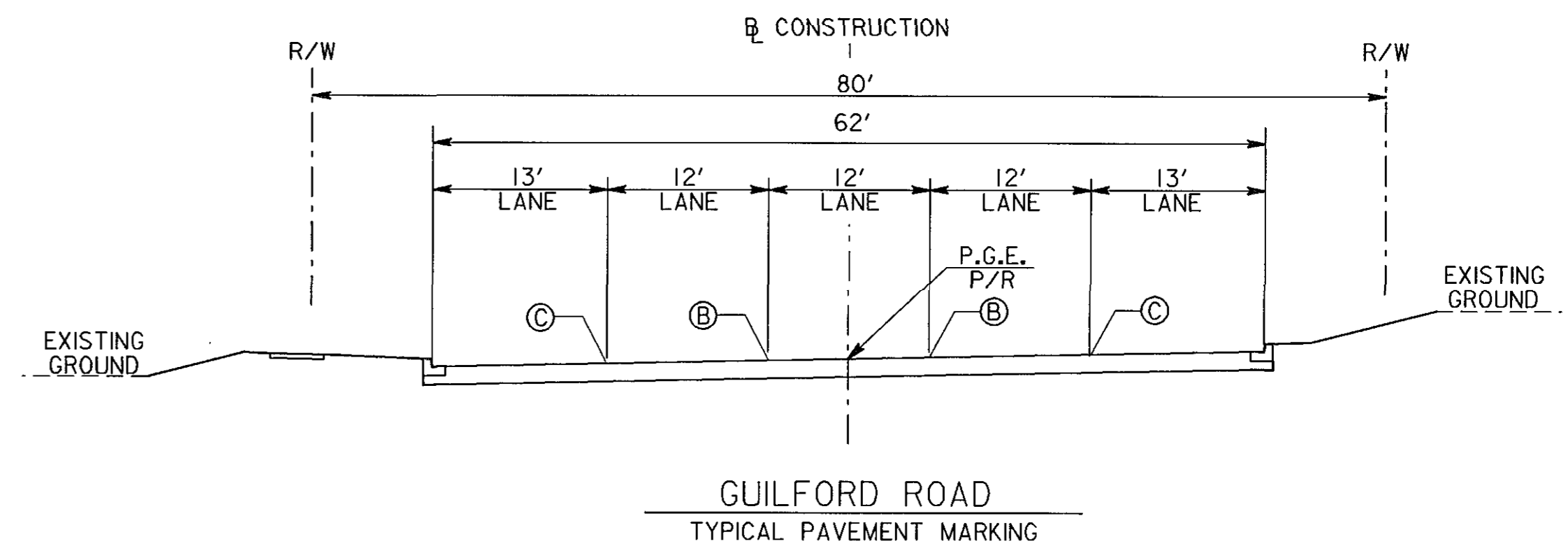
SP04



- PAVEMENT MARKING LEGEND**
- (A) 5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
 - (B) 5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
 - (C) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
 - (D) 5 INCH SOLID SKIP YELLOW THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
 - (E) 16 INCH SOLID YELLOW PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (ISLANDS AND HATCHING)
 - (F) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (2 FOOT LINE WITH 6 FOOT SPACE)
 - (G) 24 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP BAR)
 - (H) 5 INCH SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
 - (I) WHITE PREFORMED PAVEMENT MARKING ARROW
 - (K) 8 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS

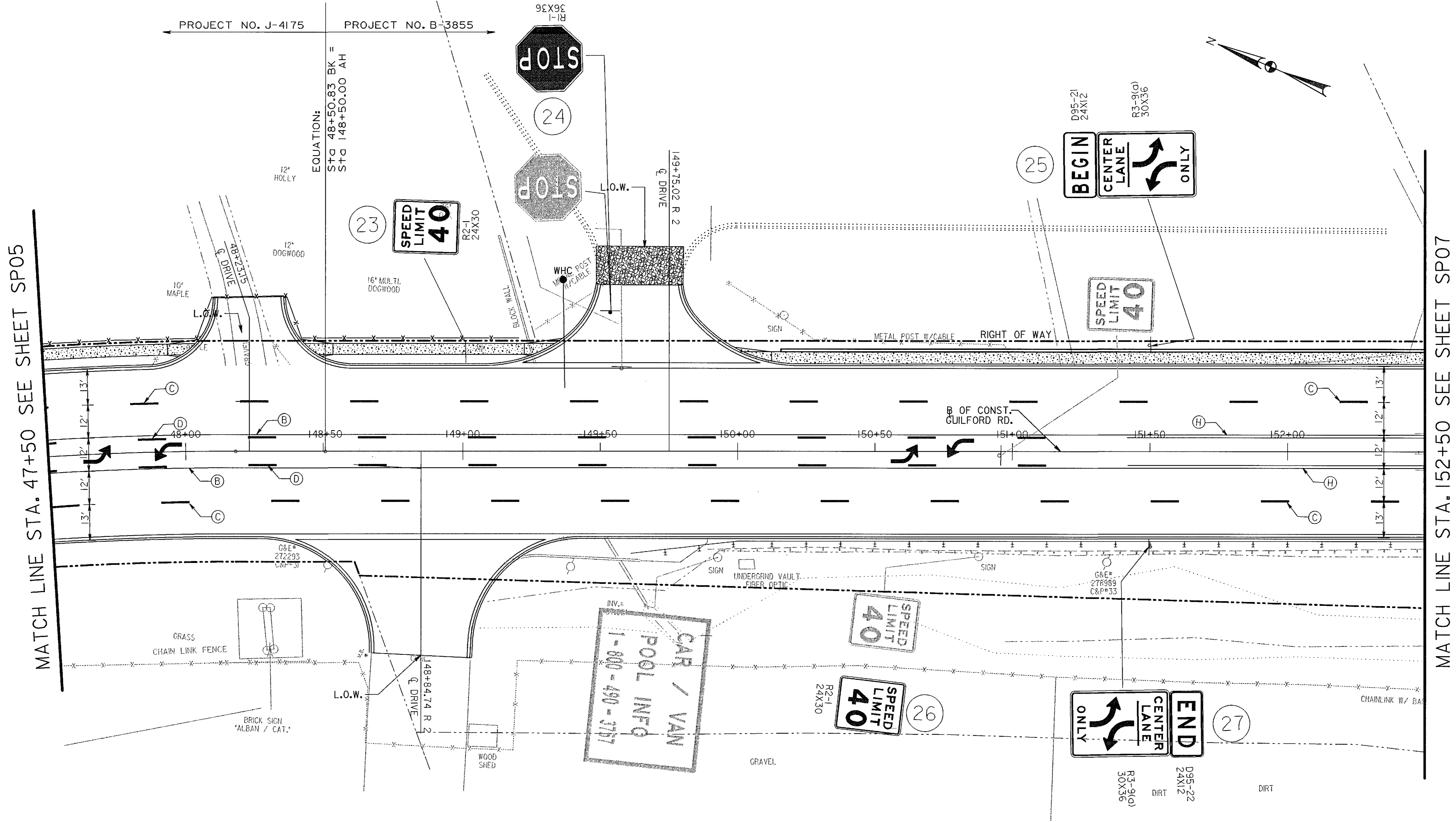
- SIGNING AND PAVEMENT MARKING NOTES**
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**LIMIT OF WORK
HILDER AVE.
STA. 20+54.61
CONTRACT NO. J-4175**



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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC. BALTIMORE, MARYLAND		DES: DKS DRN: DKS CHK: TCC DATE: 8-06	BY: _____ NO. _____ DATE _____	SP05 SCALE 1" = 20' SHEET 98 OF 156
Director of Public Works <i>Randy...</i> DATE: 8/8/06	Chief, Bureau of Engineering <i>David J. Gannett</i> DATE: 8/17/06					GUILFORD ROAD IMPROVEMENTS SIGNING AND PAVEMENT MARKING PLAN SHEET STA 41+50 TO STA 47+50 CAPITAL PROJECT No. J-4175 AND B-3855
Chief, Bureau of Highways <i>William Z...</i> DATE: 8-8-06	Chief, Division of Transportation, Special Projects Division <i>Jan...</i> DATE: 8/7/06					

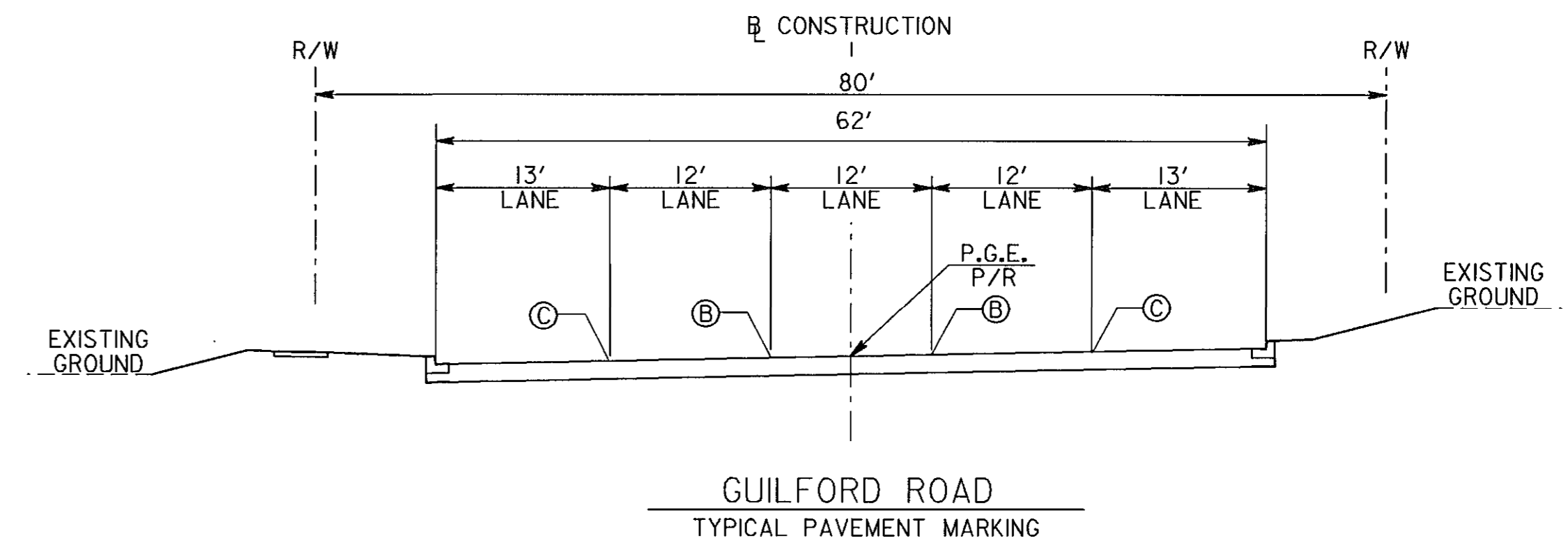
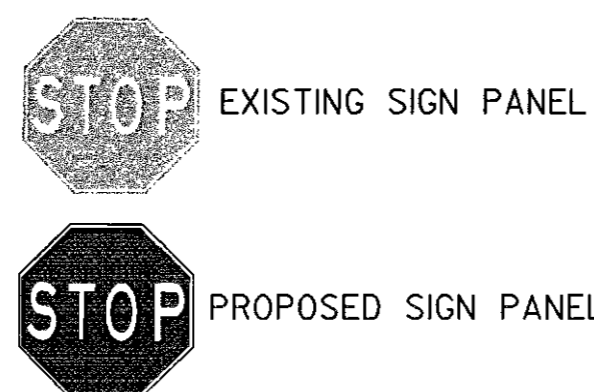


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
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- (J) 8 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS

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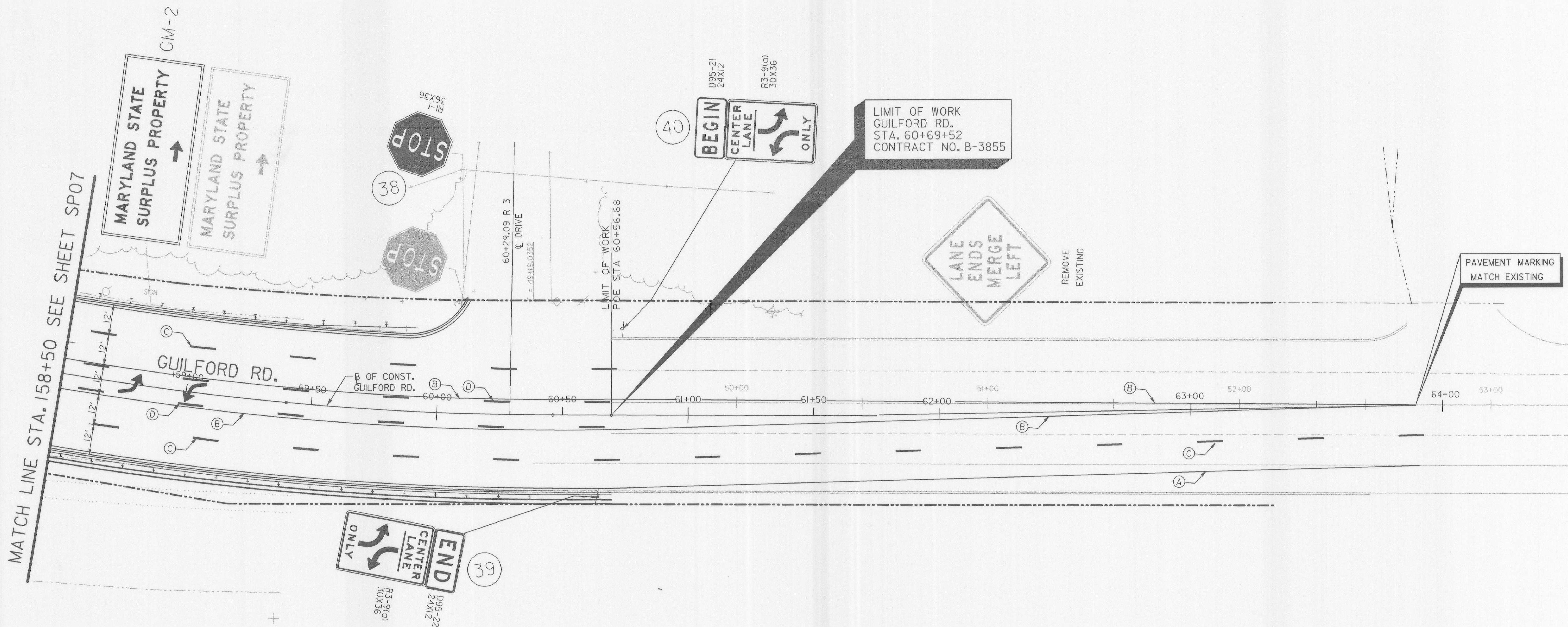
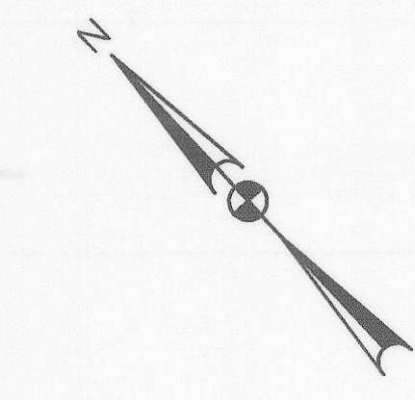
GUILFORD ROAD
TYPICAL PAVEMENT MARKING

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 LINESSTYLE LIBRARY=MDSHALS
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC. BALTIMORE, MARYLAND		DES: DKS DRN: DKS CHK: TCC DATE: 8-06	BY: NO. DATE
<i>Sam M. Jones</i> DIRECTOR OF PUBLIC WORKS DATE: 8/16/06	<i>Paul J. Sponem</i> CHIEF, BUREAU OF ENGINEERING DATE: 8/16/06	<i>Jay Stewart</i> CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE: 8/16/06			

GUILFORD ROAD IMPROVEMENTS
 SIGNING AND PAVEMENT MARKING
 PLAN SHEET
 STA 47+50 TO STA 152+00
 CAPITAL PROJECT No. J-4175 AND B-3855

SP06
SCALE 1" = 20'
SHEET 99 OF 156



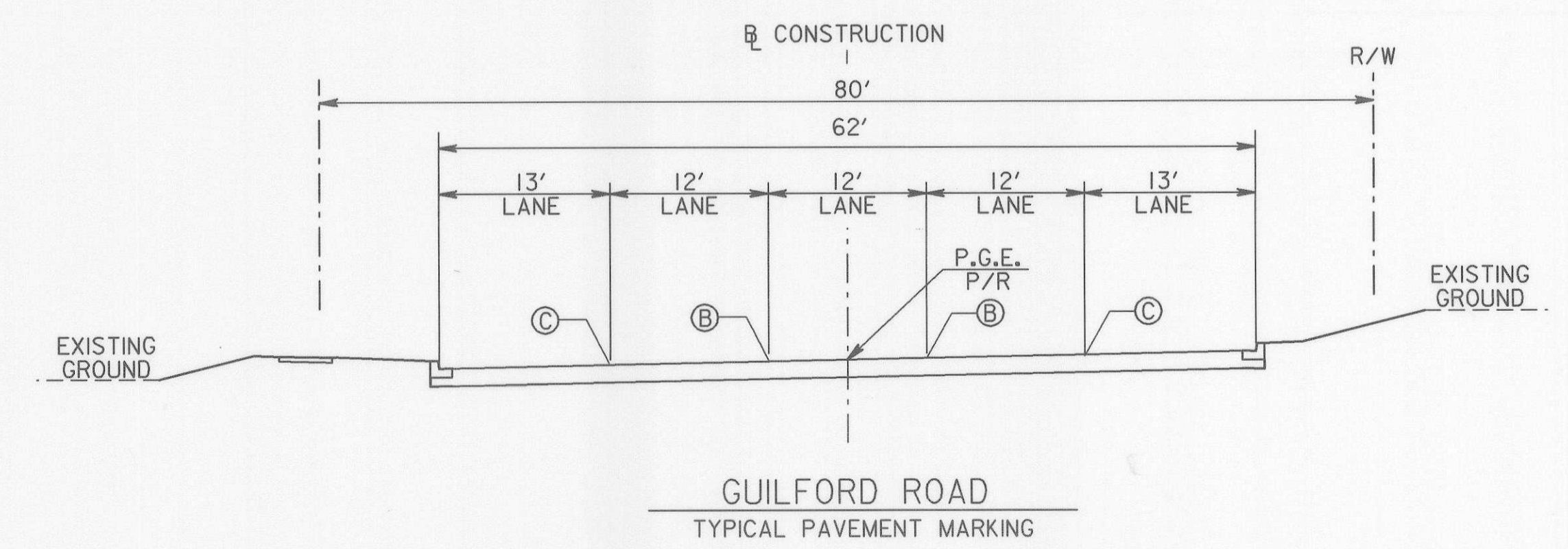
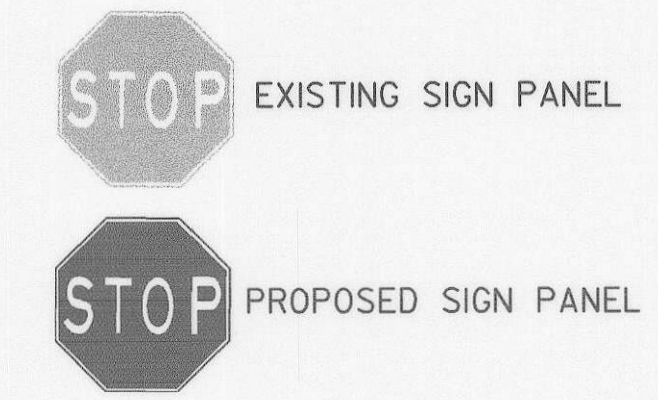
MATCH LINE STA. 158+50 SEE SHEET SP07

PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
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SIGNING AND PAVEMENT MARKING NOTES

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3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH "NEW" MARKINGS SHALL BE REMOVED (GROUND OFF).
4. ANNE ARUNDEL COUNTY WILL INSTALL STANDARD SIGNS THEMSELVES. THE CONTRACTOR SHOULD CONTACT ANNE ARUNDEL COUNTY MR. NESTOR FLORES AT 410-222-7331 FOR SIGN INSTALLATION.



FONT LIBRARY: SHAW-DUNTS
 COUNTY LIBRARY: HBSIGNALS
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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND		GANNETT FLEMING, INC.	
<i>Janet M. ...</i> DIRECTOR OF PUBLIC WORKS DATE: 8/9/06	<i>Paul H. ...</i> CHIEF, BUREAU OF ENGINEERING DATE: 8/7/06		DES: DKS DRN: DKS CHK: TCC DATE: 8-06
<i>William T. ...</i> CHIEF, BUREAU OF HIGHWAYS DATE: 8-8-06	<i>Jan Stank ...</i> CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE: 8/7/06	BALTIMORE, MARYLAND	BY: _____ NO: _____ DATE: _____

GUILFORD ROAD IMPROVEMENTS
 SIGNING AND PAVEMENT MARKING
 PLAN SHEET
 STA 158+50 TO STA 63+00
 CAPITAL PROJECT No. J-4175 AND B-3855

SP08
 SCALE
 1" = 20'
 SHEET
 101 OF 156

PANEL DESIGNATION	SHEET NO.	QUANTITY	LEGEND										REMARKS
			AREA	SIZE		COLOR		BORDER		SHIELD			
				WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH	RADIUS		ARROW		
GM-1			21 SF	7'-0"	3'-0"	W	G	1"	3"	0"			
GM-2			21 SF	7'-0"	3'-0"	W	G	1"	3"	0"			

PANEL DESIGNATION	SHEET NO.	QUANTITY	LEGEND										REMARKS
			AREA	WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH	RADIUS	ARROW	SHIELD		

LEGEND & BACKGROUND COLORS: BLK=BLACK, BLU=BLUE, BRO=BROWN, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James P. ... 8/18/06
DIRECTOR OF PUBLIC WORKS DATE

Richard ... 8/17/06
CHIEF, BUREAU OF ENGINEERING DATE

William ... 8/1/06
CHIEF, BUREAU OF HIGHWAYS DATE

Jay ... 8/1/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.
BALTIMORE, MARYLAND



DES: DKS
DRN: DKS
CHK: TCC
DATE: 8-06

BY: _____ NO. _____ DATE _____

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
GUIDE SIGN MESSAGES - DETAILS & DIMENSIONS
CAPITAL PROJECT No. J-4175 AND B-3855

SN-3
SCALE N.T.S.
SHEET 102 OF 156

SHEET NO.	SIGN NO.	REMARKS	CODE NUMBERS •																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SP01	1	RI-1 (36" X 36")	1	4'X4' WOOD SUPPORT	9	15																
SP01	1A	R3-7R (30" X 30")	1	4'X4' WOOD SUPPORT	6.25	14.5																
SP01		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					9															
SP02	2	R2-1 (24" X 30")	1	4'X4' WOOD SUPPORT	5	14.5																
SP02	3	R3-7R (30" X 30")	1	4'X4' WOOD SUPPORT	6.25	14.5																
SP02	3A	R3-7R (30" X 30")	1	4'X4' WOOD SUPPORT	6.25	14.5																
SP02	4	R3-7R (30" X 30")	1	4'X4' WOOD SUPPORT	6.25	14.5																
SP02		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					5															
SP03	5	R2-1 (24" X 30")	1	4'X4' WOOD SUPPORT	5	14.5																
SP03	6	R3-7R (30" X 30")	1	4'X4' WOOD SUPPORT	6.25	14.5																
SP03	7	W3-3 (36" X 36"); D3-2 (72"X12")	2	4'X6' WOOD SUPPORT	15		31.5															
SP03	8	M4-5 (24"X12"); MI-5 (24"X24"); M5-2 (21"X15)	1	4'X4' WOOD SUPPORT	8.19	14.75																
SP03	9	R3-7R (30" X 30")	1	4'X4' WOOD SUPPORT	6.25	14.5																
SP03	10	TYPE 10MI-3 (18" X 18")	1	4'X4' WOOD SUPPORT	2.25	9																
SP03	11	TYPE 10MI-3 (18" X 18")	1	4'X4' WOOD SUPPORT	2.25	9																
SP03	12	W4-3 (36" X 36")	2	4'X6' WOOD SUPPORT	9		29.5															
SP03	13	W4-3 (36" X 36")	2	4'X6' WOOD SUPPORT	9		29.5															
SP03		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					75.44															
SP04	14	R2-1 (24" X 30")	1	4'X4' WOOD SUPPORT	5	14.5																
SP04	15	RI-1 (36" X 36")	1	4'X4' WOOD SUPPORT	9	15																
SP04	16	M4-5 (24" X 12"); MI-5 (24"X24"); M5-2 (21"X15)	1	4'X4' WOOD SUPPORT	8.19	14.75																
SP04	17	W3-3 (36" X 36"); D3-2 (72"X12")	2	4'X6' WOOD SUPPORT	15		31.5															
SP04	18	D95-22 (24" X 12"); R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	9.5	14.5																
SP04	19	D95-21 (24" X 12"); R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	9.5	14.5																
SP04	20	R3-8 (mod) (48" X 30")	2	4'X6' WOOD SUPPORT	10		29															
SP04		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					41															
SP05	21	R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	7.5	15																
SP05	22	R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	7.5	15																
SP05		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					6															
SP06	23	R2-1 (24" X 30")	1	4'X4' WOOD SUPPORT	5	14.5																
SP06	24	RI-1 (36" X 36")	1	4'X4' WOOD SUPPORT	9	15																
SP06	25	D95-21 (24" X 12"); R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	9.5	14.5																
SP06	26	R2-1 (24" X 30")	1	4'X4' WOOD SUPPORT	5	14.5																
SP06	27	D95-22 (24" X 12"); R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	9.5	14.5																
SP06		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					19															
SP07	28	OM-3L (36" X 12")	2	4'X4' WOOD SUPPORT	3	9																
SP07	29	OM-3R (36" X 12")	1	4'X4' WOOD SUPPORT	3	9																
SP07	30	I95-2 (108" X 60") *ANNE ARUNDEL COUNTY*	2	4'X6' WOOD SUPPORT	45		34															
SP07	31	OM-3R (36" X 12")	1	4'X4' WOOD SUPPORT	3	9																
SP07	32	I95-2 (108" X 60") *HOWARD COUNTY*	2	4'X6' WOOD SUPPORT	45		34															
SP07	GM-1	(3' X 7')	2	4'X4' WOOD SUPPORT	21	30																
SP07	33	OM-3L (36" X 12")	1	4'X4' WOOD SUPPORT	3	9																
SP07	34	RI-1 (36" X 36")	1	4'X4' WOOD SUPPORT	9	15																
SP07	35	M4-5 (24"X12"); M3-4 (24" X 12"); MI-5 (24" X 24"); M6-1 (21"X15)	2	4'X4' WOOD SUPPORT	18.375	31.5																
		M3-2 (24" X 12"); MI-5 (24" X 24"); M6-1 (21"X15)																				
SP07	36	D95-22 (24" X 12"); R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	9.5	14.5																
SP07	37	D95-21 (24" X 12"); R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	9.5	14.5																
SP07		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					132															
SP08	38	RI-1 (36" X 36")	1	4'X4' WOOD SUPPORT	9	15																
SP08	GM-2	(3' X 7')	2	4'X4' WOOD SUPPORT	21	30																
SP08	39	D95-22 (24" X 12"); R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	9.5	14.5																
SP08	40	D95-21 (24" X 12"); R3-9a (30" X 36")	1	4'X4' WOOD SUPPORT	9.5	14.5		36.25														
SP08		EXISTING SIGNS TO BE REMOVED (THIS SHEET)																				
		ACTUAL CALCULATED TOTAL			439.76	555.50	219.00	323.69														
		ROUNDED ESTIMATE TOTAL			440.00	556.00	219.00	324.00														

• CODE NUMBER DESCRIPTION & UNIT					
CODE NUMBERS	DESCRIPTION	UNIT	CODE NUMBERS	DESCRIPTION	UNIT
1	F & I SHEET ALUMINUM	SF			
2	F & I WOOD SIGN SUPPORT 4" X 4"	LF			
3	F & I WOOD SIGN SUPPORT 4" X 6"	LF			
4	EX. SIGN AND SUPPORT TO BE REMOVED	SF			

Unit
LF


DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 8/16/06
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 8/17/06
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 8/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.



BALTIMORE, MARYLAND



DES: PNF

DRN: PNF

CHK: TCC

DATE: 8-06

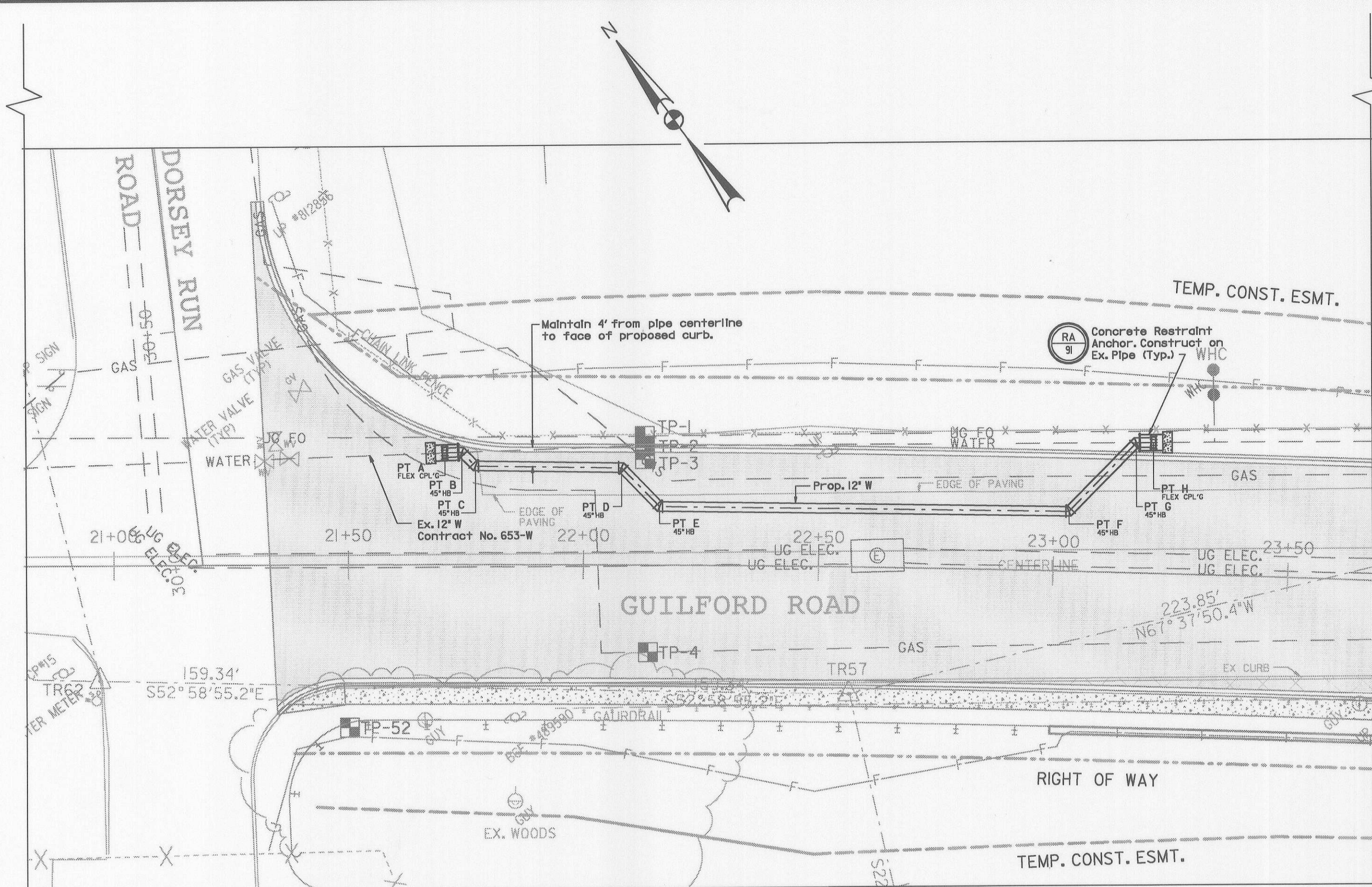
BY NO. DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
INDEX OF SIGNING QUANTITIES
CAPITAL PROJECT No. J-4175 AND B-3855

SN-II

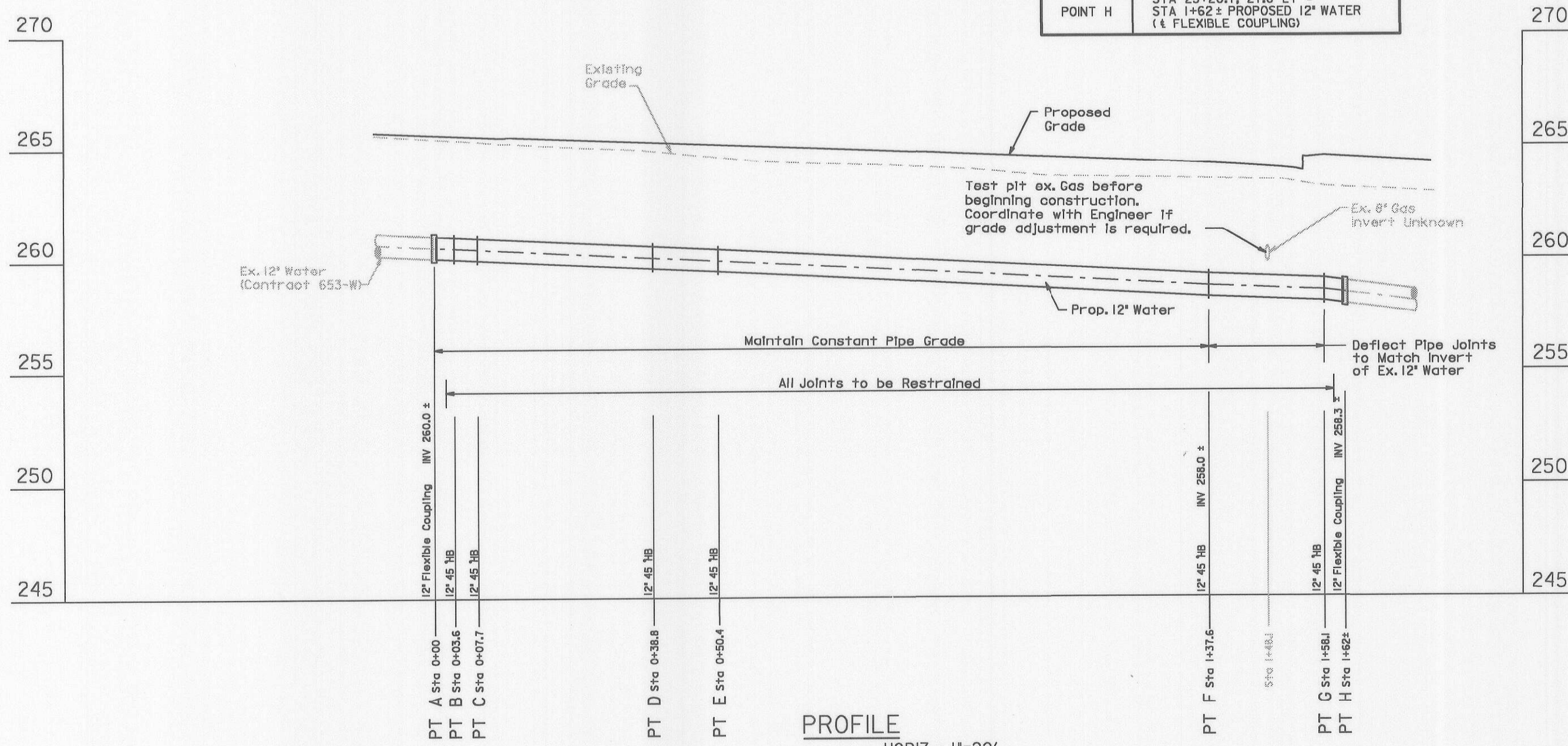
SCALE N.T.S

SHEET 103 OF 156



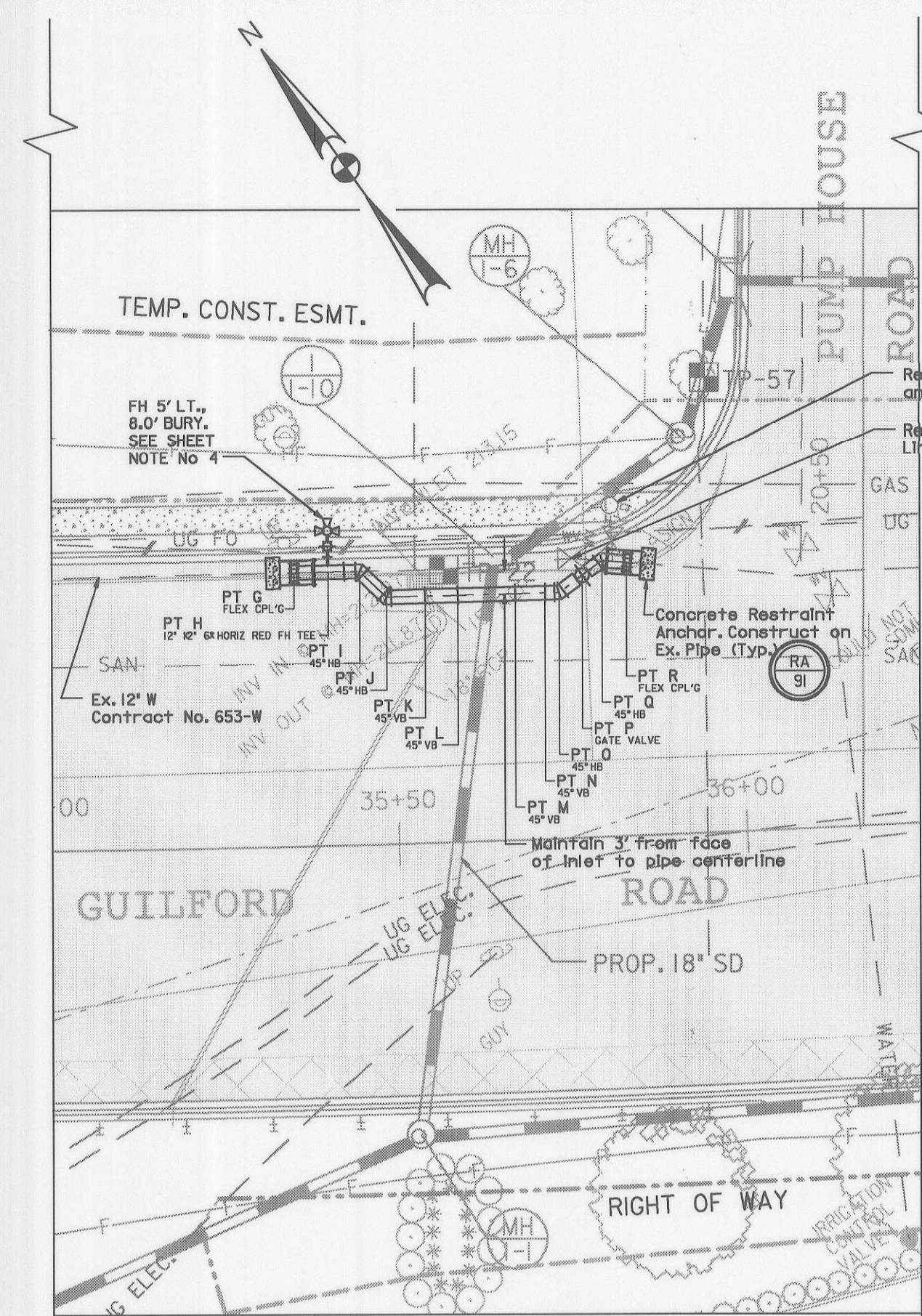
PLAN
SCALE: 1"=20'

STAKE-OUT TABLE	
GUILFORD ROAD STATIONING AT DORSEY RUN ROAD RELOCATION	
POINT A	STA 21+70.6, 23.8' LT = STA 0+00 PROPOSED 12" WATER (4 FLEXIBLE COUPLING)
POINT B	STA 21+74.1, 23.9' LT = STA 0+03.5 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT C	STA 21+77.0, 21.0' LT = STA 0+17.7 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT D	STA 22+08.1, 20.7' LT = STA 0+38.8 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT E	STA 22+16.2, 12.5' LT = STA 0+50.4 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT F	STA 23+03.1, 12.7' LT = STA 1+37.6 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT G	STA 23+17.0, 21.7' LT = STA 1+58.1 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT H	STA 23+20.7, 27.8' LT = STA 1+62.7 PROPOSED 12" WATER (4 FLEXIBLE COUPLING)



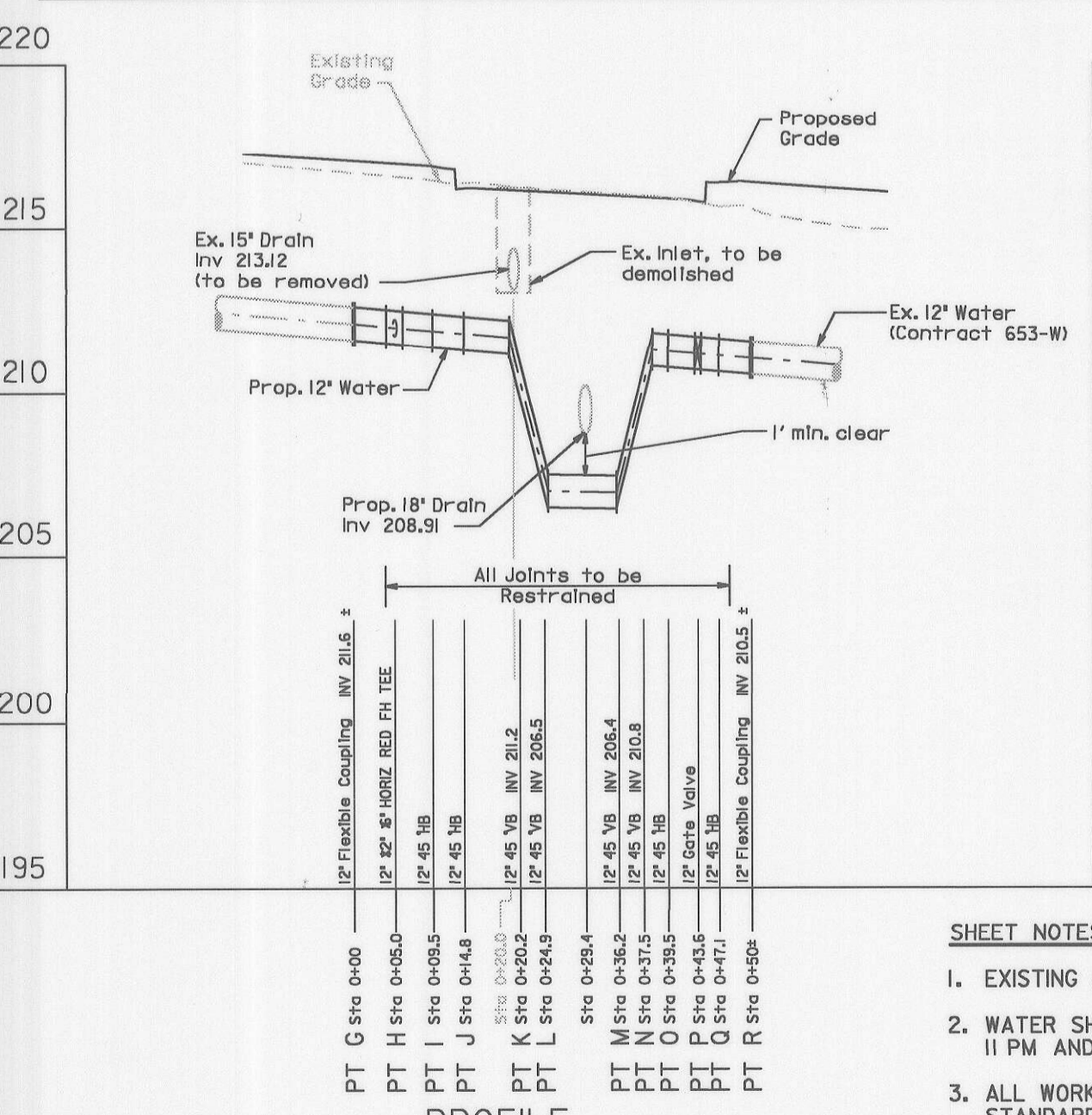
PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

DETAIL NO. 1



PLAN
SCALE: 1"=20'

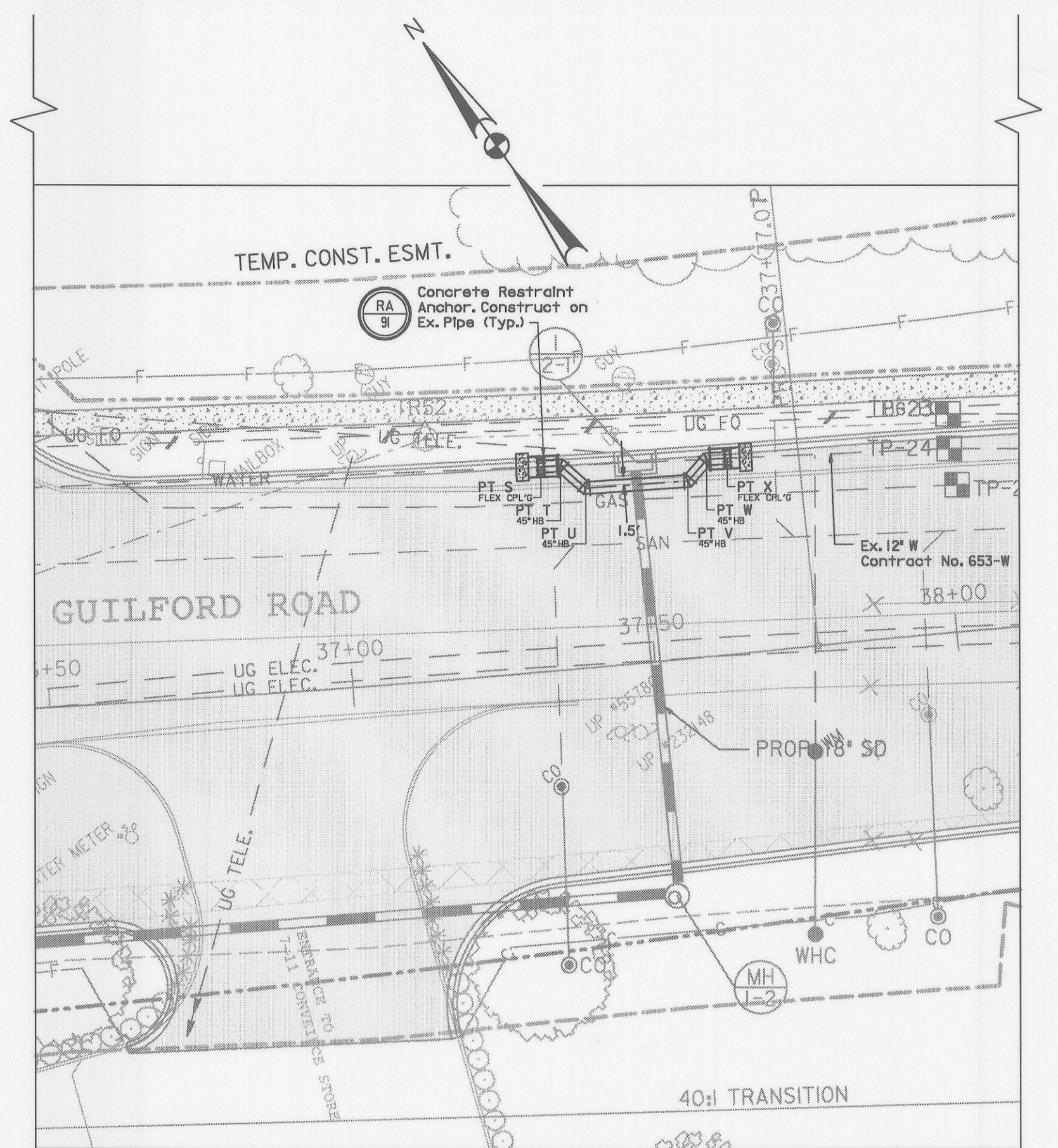
STAKE-OUT TABLE			
GUILFORD ROAD STATIONING AT PUMP HOUSE ROAD RELOCATION			
POINT G	STA 35+35.8, 39.1' LT = STA 0+00 PROPOSED 12" WATER (4 FLEXIBLE COUPLING)	POINT M	STA 35+67.8, 35.3' LT = STA 0+33.2 PROPOSED 12" WATER (45° VERTICAL BEND)
POINT H	STA 35+40.7, 39.1' LT = STA 0+05.0 PROPOSED 12" WATER (12" X 12" X 6" HORIZONTAL RED FH TEE)	POINT N	STA 35+72.1, 35.2' LT = STA 0+37.5 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT I	STA 35+45.4, 39.1' LT = STA 0+09.5 PROPOSED 12" WATER (45° HORIZONTAL BEND)	POINT O	STA 35+74.1, 35.2' LT = STA 0+39.5 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT J	STA 35+49.2, 35.3' LT = STA 0+14.8 PROPOSED 12" WATER (45° HORIZONTAL BEND)	POINT P	STA 35+77.7, 37.6' LT = STA 0+43.6 PROPOSED 12" WATER (GATE VALVE)
POINT K	STA 35+54.8, 35.3' LT = STA 0+20.2 PROPOSED 12" WATER (45° HORIZONTAL BEND)	POINT Q	STA 35+80.6, 39.7' LT = STA 0+47.1 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT L	STA 35+59.5, 35.3' LT = STA 0+24.9 PROPOSED 12" WATER (45° HORIZONTAL BEND)	POINT R	STA 35+84.2, 39.1' LT = STA 0+50.7 PROPOSED 12" WATER (4 FLEXIBLE COUPLING)



PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

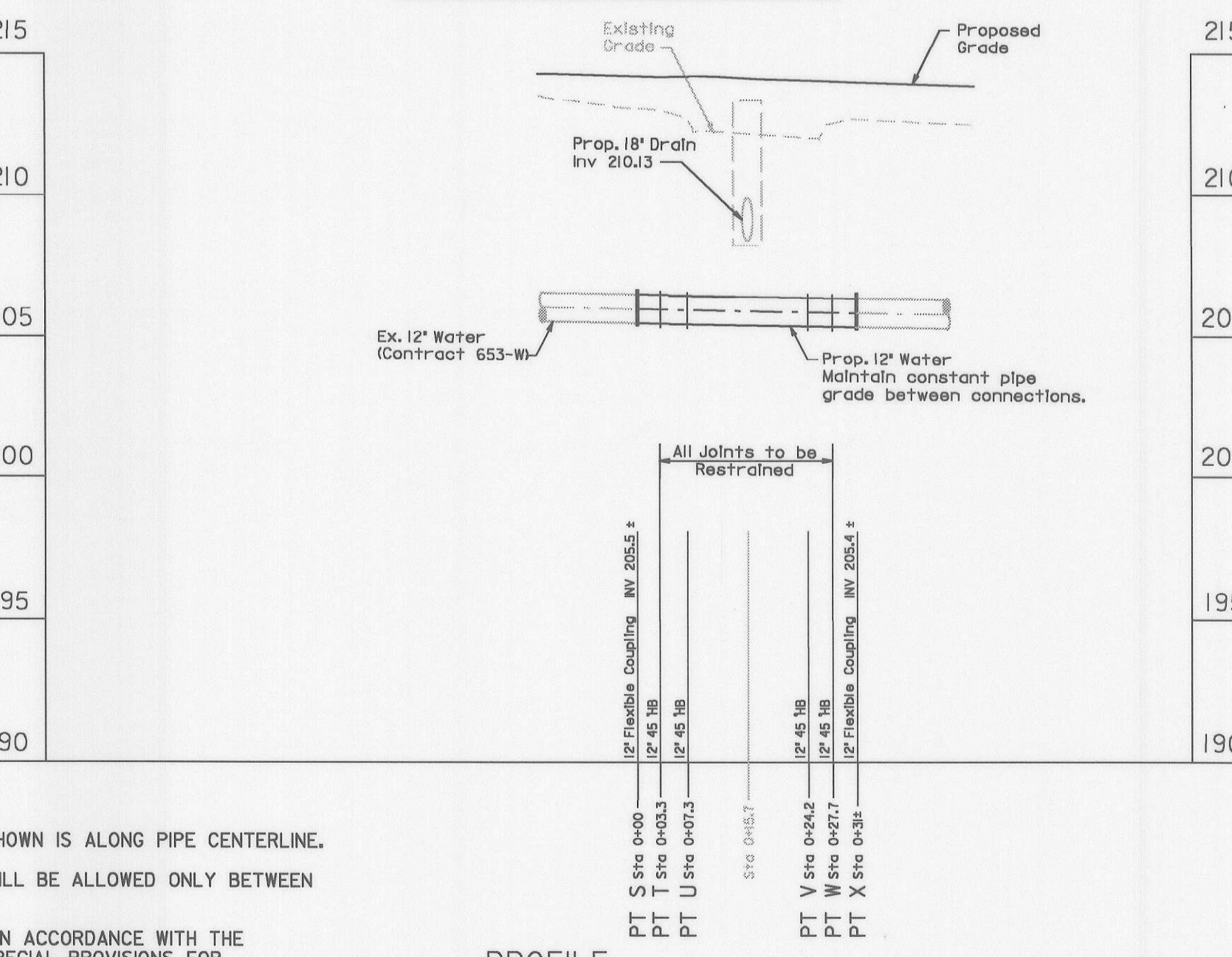
DETAIL NO. 2

- SHEET NOTES**
- EXISTING AND PROPOSED GRADE SHOWN IS ALONG PIPE CENTERLINE.
 - WATER SHUTDOWNS FOR TIE-INS WILL BE ALLOWED ONLY BETWEEN 11 PM AND 5 AM.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS; SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
 - INSTALL REDUCING FIRE HYDRANT TEE WITH 6" BRANCH HORIZONTAL. INSTALL HYDRANT, GATE VALVE AND ROADWAY BOX IN ACCORDANCE WITH STD. DETAIL W211. HYDRANT AND VALVE RESTRAINED PER STD. DETAIL W211.



PLAN
SCALE: 1"=20'

STAKE-OUT TABLE	
GUILFORD ROAD STATIONING AT T-11 CONVEYANCE STORE ENTRANCE	
POINT S	STA 37+34.1, 33.6' LT = STA 0+00 PROPOSED 12" WATER (4 FLEXIBLE COUPLING)
POINT T	STA 37+37.4, 35.5' LT = STA 0+03.3 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT U	STA 37+41.3, 29.5' LT = STA 0+07.3 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT V	STA 37+58.3, 29.1' LT = STA 0+24.2 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT W	STA 37+61.8, 32.3' LT = STA 0+27.7 PROPOSED 12" WATER (45° HORIZONTAL BEND)
POINT X	STA 37+65.2, 32.1' LT = STA 0+31.2 PROPOSED 12" WATER (4 FLEXIBLE COUPLING)



PROFILE
HORIZ: 1"=20'
VERT: 1"=5'

DETAIL NO. 3

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John P. Lewis 8/16/06
DIRECTOR OF PUBLIC WORKS DATE

Robert D. Brown 8/17/06
CHIEF, BUREAU OF ENGINEERING DATE

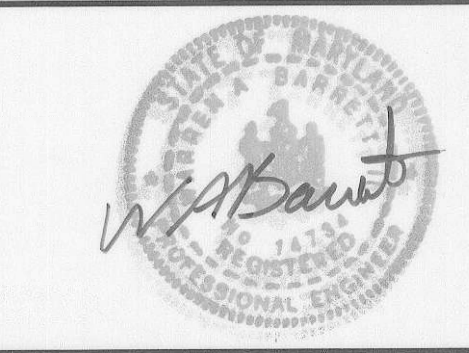
William J. Tuller 8-8-06
CHIEF, BUREAU OF HIGHWAYS DATE

John Staudt 8/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

W. A. Stewart

BALTIMORE, MARYLAND



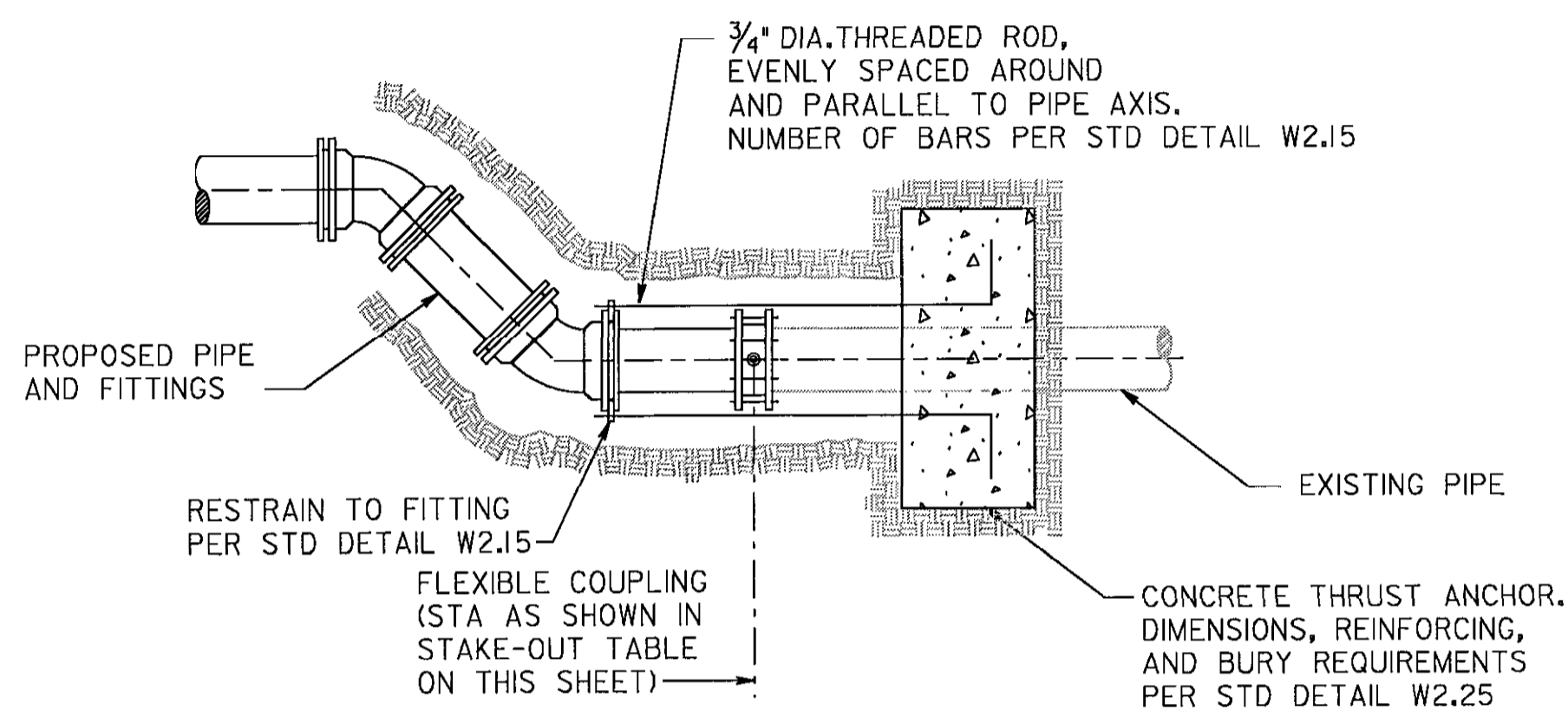
DES: DRF			
DRN: YW			
CHK: DRF			
DATE: 8-06			
BY	NO.	DATE	

GUILFORD ROAD IMPROVEMENTS
CONTRACT NO. 653-W
PLAN SHEET
WATER MAIN RELOCATION PLANS
CAPITAL PROJECT NO. J-4175 AND B-3855

UTOI

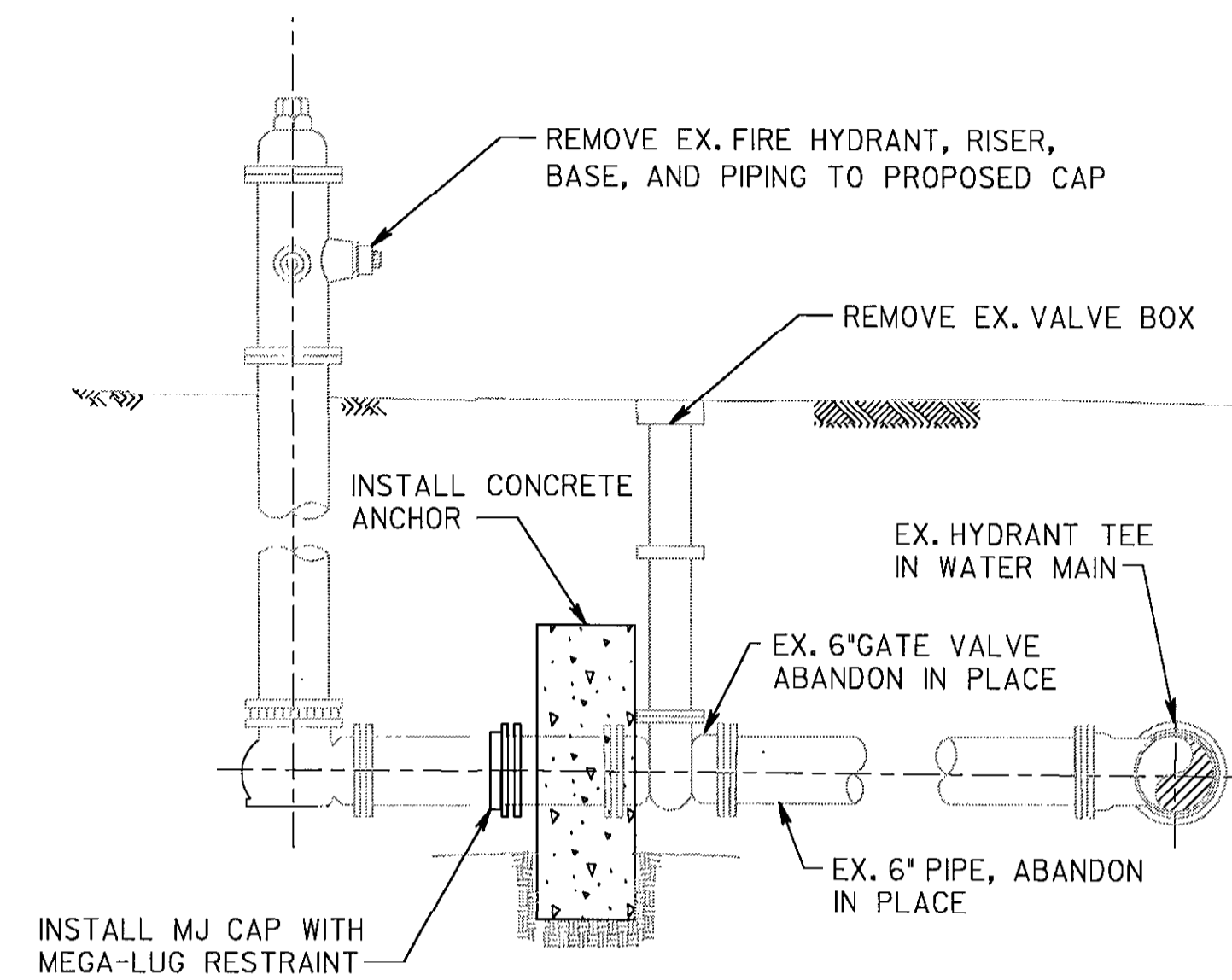
SCALE
AS SHOWN

SHEET
104 OF 156



RESTRAINT ANCHOR ON EXISTING PIPE
 RA SCALE : NTS

- DETAIL NOTES:**
1. RESTRAINT ANCHOR CANNOT BE SUBJECTED TO THRUST LOADS UNTIL DESIGN STRENGTH HAS BEEN ATTAINED.



HYDRANT ABANDONMENT DETAIL
 HA SCALE : NTS

- HYDRANT ABANDONMENT NOTES:**
1. INSTALL CONCRETE ANCHOR TO ENCASE DOWNSTREAM JOINT ON EXISTING 6" GV. ANCHOR DIMENSIONS, REINFORCING, AND BURY REQUIREMENTS PER STD. DETAIL W2.25.
 2. CONCRETE ANCHOR MUST BE PLACED AND ALLOWED TO ACHIEVE DESIGN STRENGTH BEFORE HYDRANT IS REMOVED.
 3. CLOSE HYDRANT VALVE. REMOVE VALVE BOX, HYDRANT, AND PIPE TO WITHIN 12" OF CONCRETE ANCHOR. SALVAGE OR DISPOSE OF REMOVED MATERIAL AS DIRECTED BY HOWARD COUNTY DPW.
 4. INSTALL MJ CAP ON END OF PIPE TO REMAIN IN PLACE. CAP SHALL BE RESTRAINED TO EXISTING PIPE BY MEGA-LUG RESTRAINT.
 5. PLACE BACKFILL IN ACCORDANCE WITH MDSHA STD. SPECIFICATION SECTION 302. INSTALL BURIED PIPE WARNING TAPE 12" BELOW GRADE OVER ANCHOR AND ABANDONED VALVE.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 8/8/06
 DIRECTOR OF PUBLIC WORKS DATE

[Signature] 8/7/06
 CHIEF, BUREAU OF ENGINEERING DATE

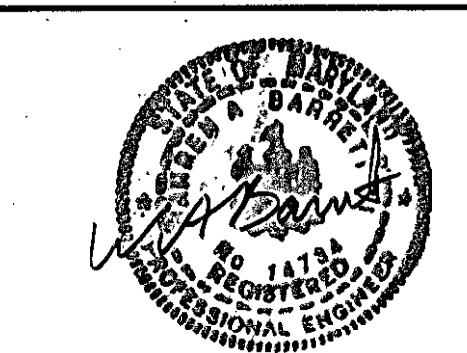
[Signature] 8/8/06
 CHIEF, BUREAU OF HIGHWAYS DATE

[Signature] 8/7/06
 CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

[Logo]

BALTIMORE, MARYLAND



DES: DRF				
DRN: YW				
CHK: DRF				
DATE: 8-06	BY	NO.		DATE

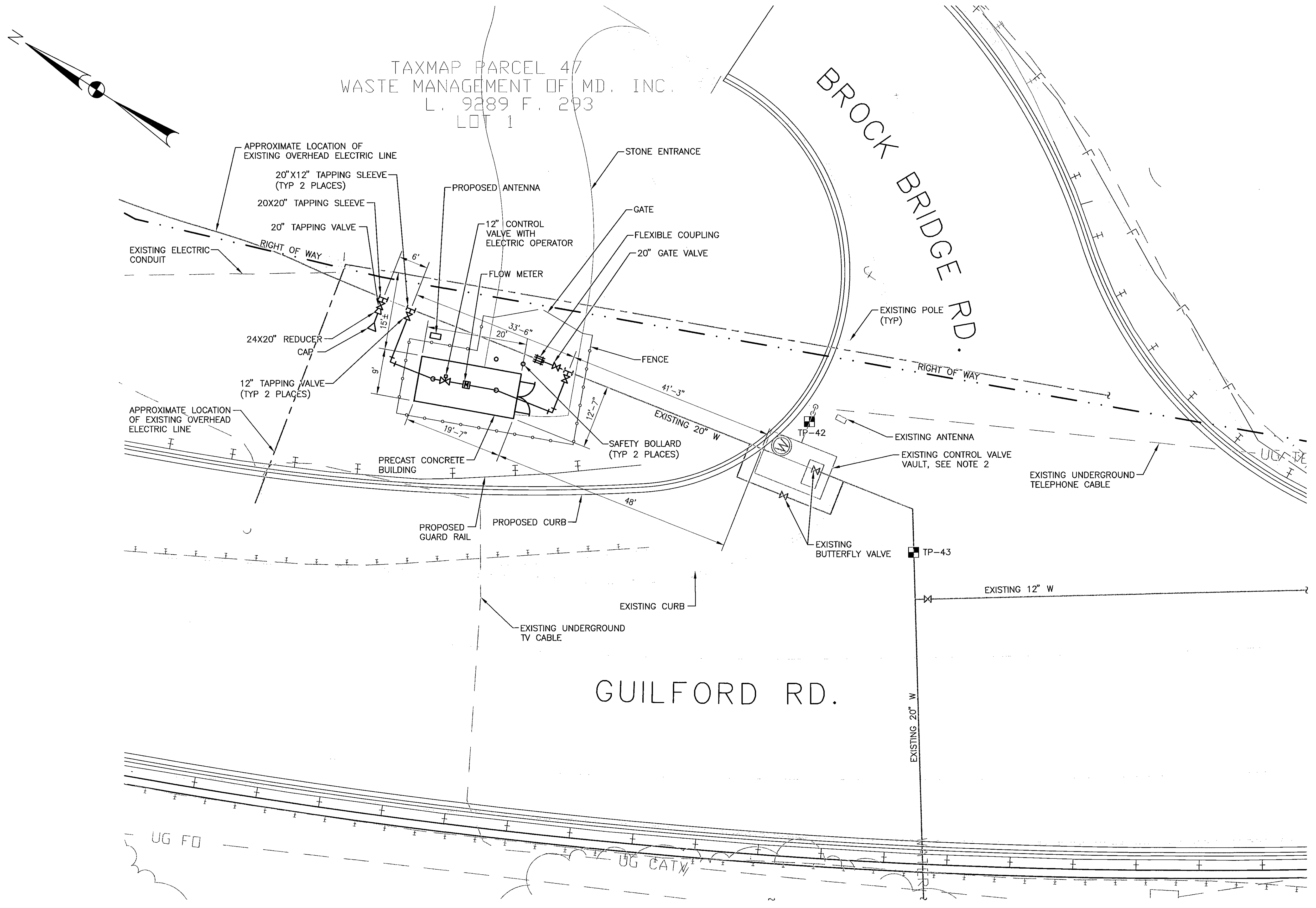
GUILFORD ROAD IMPROVEMENTS
 CONTRACT NO. 653-W
 WATER MAIN RELOCATION
 NOTES AND DETAILS
 CAPITAL PROJECT No. J-4175 AND B-3855

UT02

SCALE
 AS SHOWN

SHEET
 105 OF 156

TEST HOLE DATA				
TEST HOLE	STATION	OFFSET	UTILITY	COVER (FT)
TP-42	156+76.75	51.17' LT.	6" C.I. VENT PIPE	2.16
TP-43	156+99.13	27.85' LT.	12" D.I. WATER	8.25



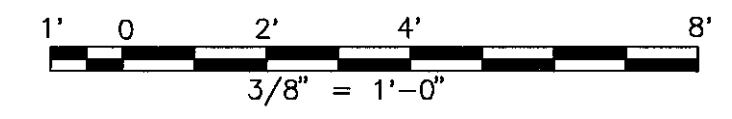
TAXMAP PARCEL 47
WASTE MANAGEMENT OF MD. INC.
L. 9289 F. 293
LOT 1

BROCK BRIDGE RD.

GUILFORD RD.

SITE PLAN
SCALE: 1"=10'

- NOTES:
1. ALL WORK AND MATERIALS FOR THIS VAULT RELOCATION SHALL BE IN ACCORDANCE WITH ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND STANDARD DETAILS.
 2. THE EXISTING CONTROL VALVE VAULT SHALL BE ABANDONED AS SHOWN ON THESE PLANS AND DETAILS ONLY AFTER THE NEW VAULT AND EQUIPMENT HAVE BEEN INSTALLED, TESTED AND ARE OPERATIONAL.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Janet... 8/16/06
DIRECTOR OF PUBLIC WORKS DATE

Michael... 8/7/06
CHIEF, BUREAU OF ENGINEERING DATE

... 8/7/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT
FLEMING, INC.

BALTIMORE,
MARYLAND

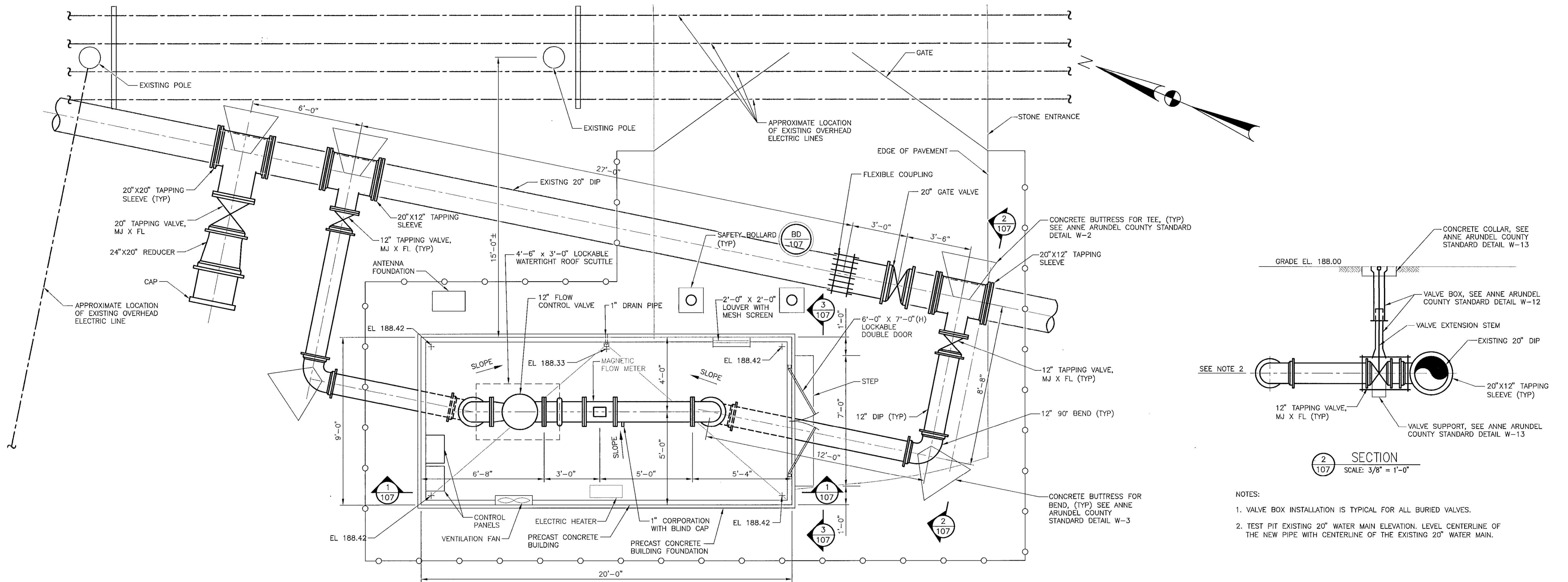


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DATE: 8-06	BY	NO.		DATE

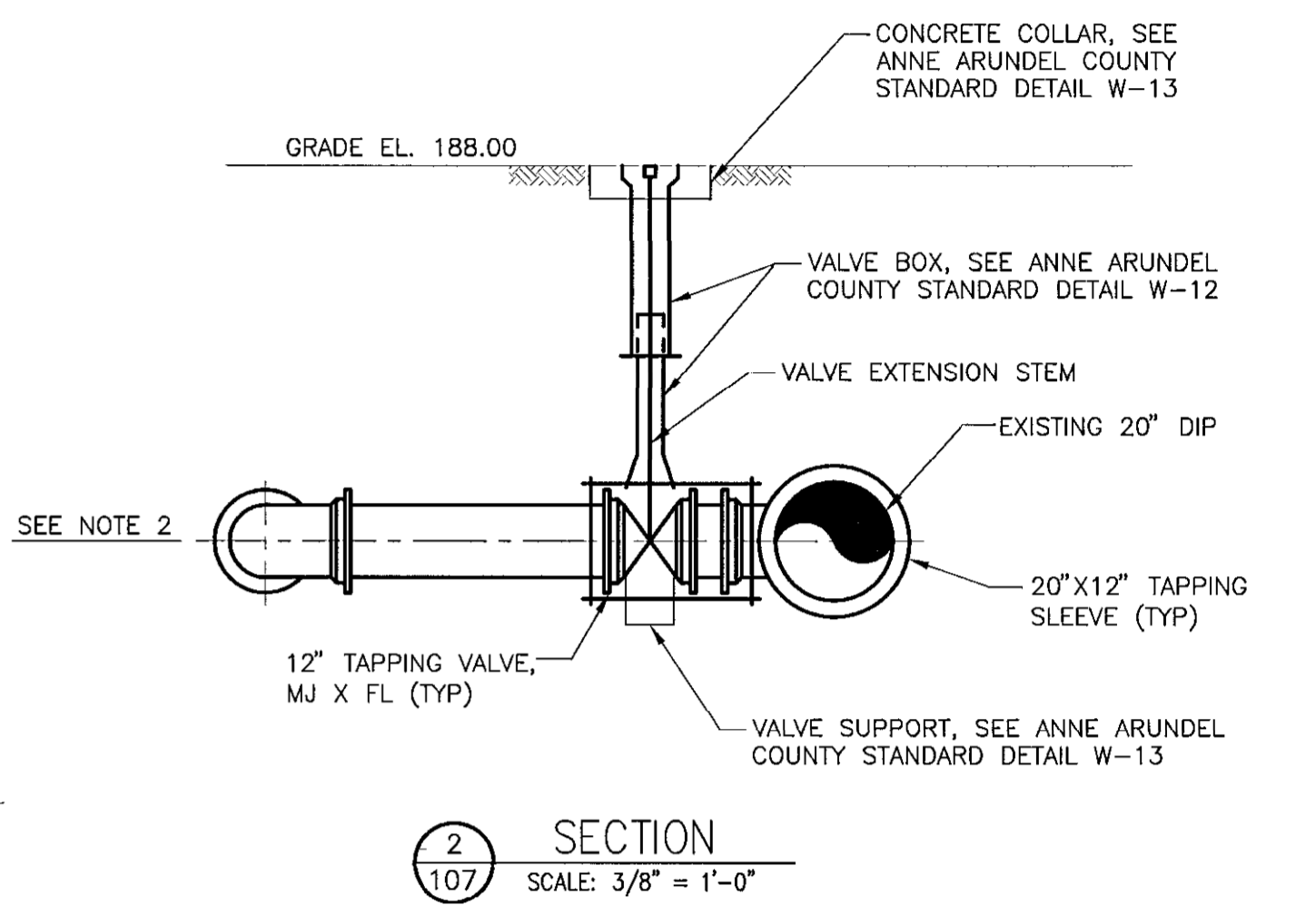
GUILFORD ROAD IMPROVEMENTS
GUILFORD/BROCK BRIDGE ROAD
WATER VAULT RELOCATION
SITE PLAN & VAULT PLAN

SCALE

SHEET
106 OF 156

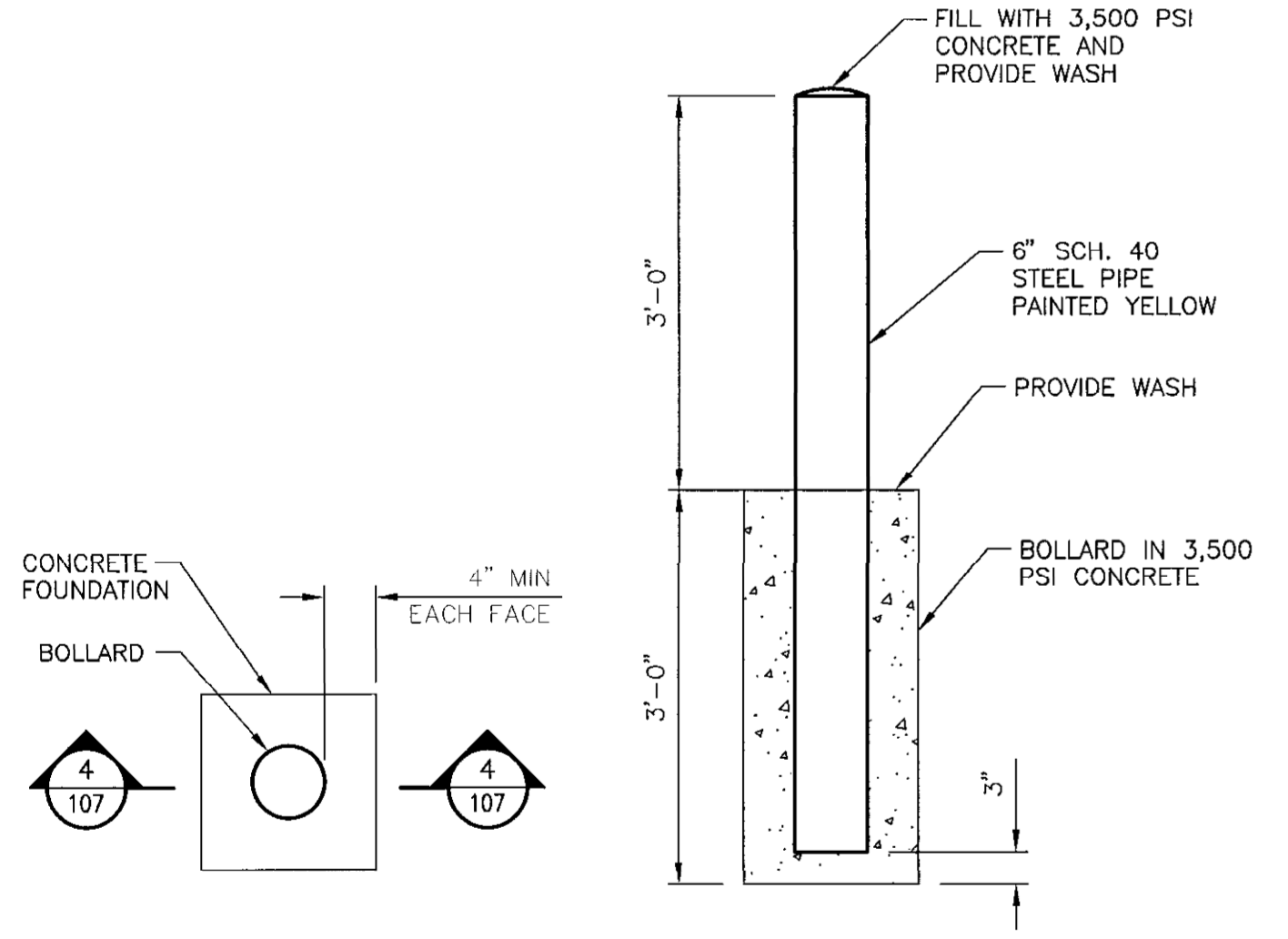


PLAN
SCALE: 3/8" = 1'-0"

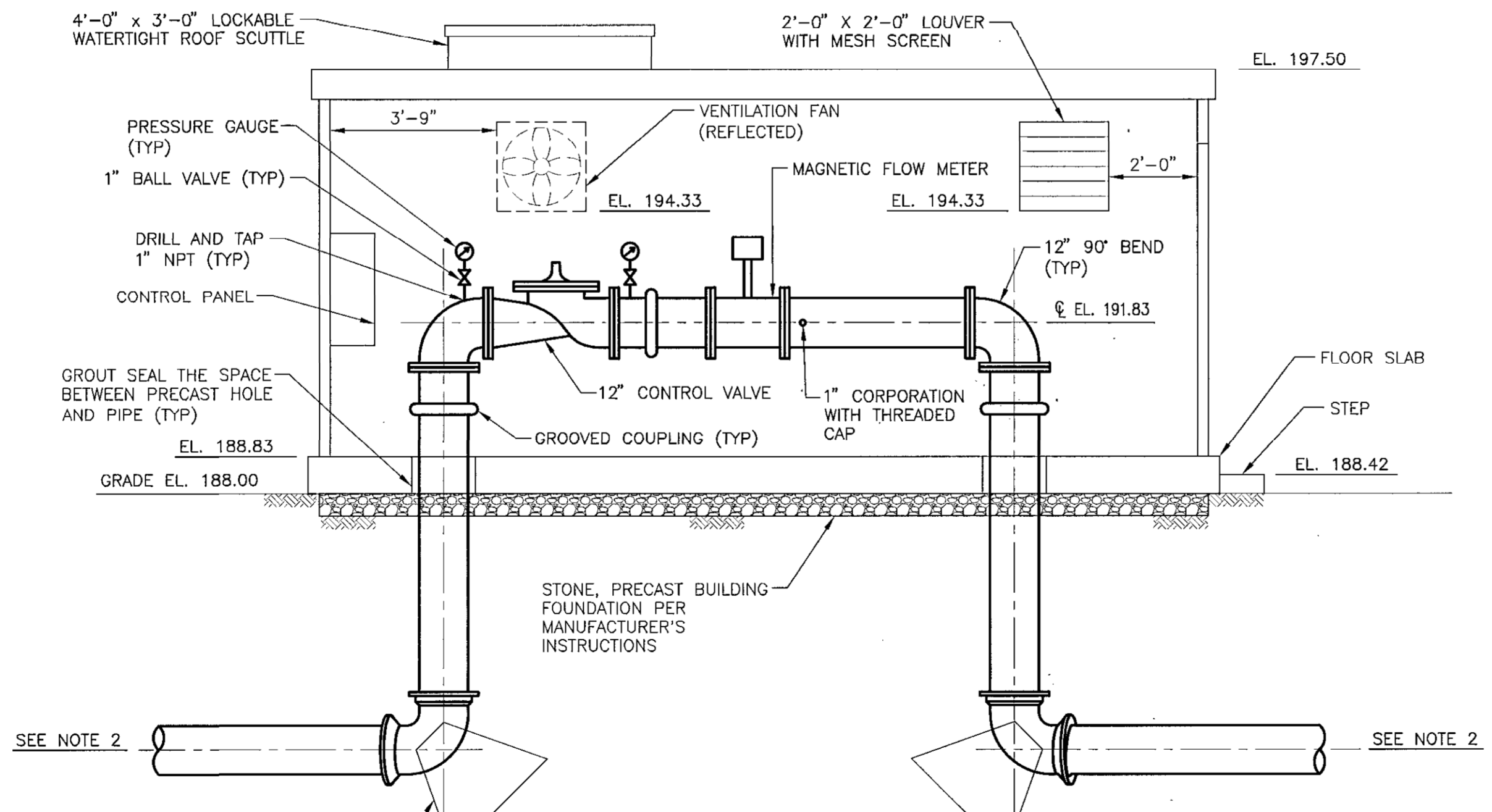


SECTION
SCALE: 3/8" = 1'-0"

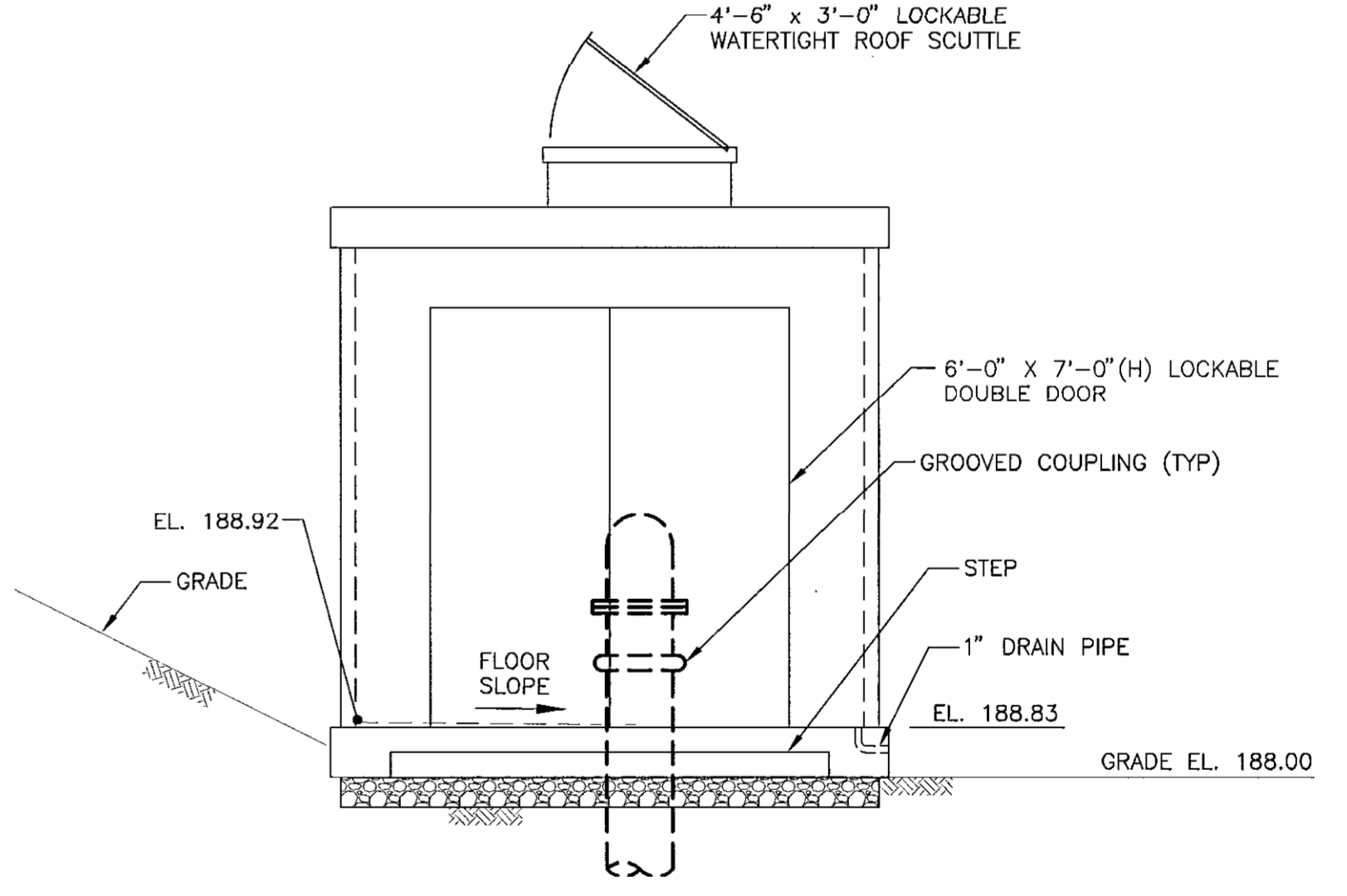
- NOTES:
1. VALVE BOX INSTALLATION IS TYPICAL FOR ALL BURIED VALVES.
 2. TEST PIT EXISTING 20" WATER MAIN ELEVATION. LEVEL CENTERLINE OF THE NEW PIPE WITH CENTERLINE OF THE EXISTING 20" WATER MAIN.



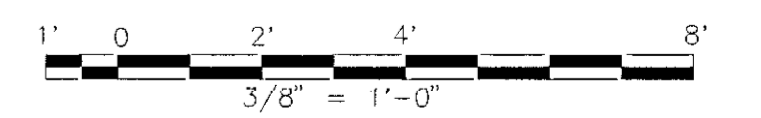
SECTION
SCALE: 3/4" = 1'-0"



SECTION
SCALE: 3/8" = 1'-0"



SECTION
SCALE: 3/8" = 1'-0"



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 8/8/06
DIRECTOR OF PUBLIC WORKS DATE

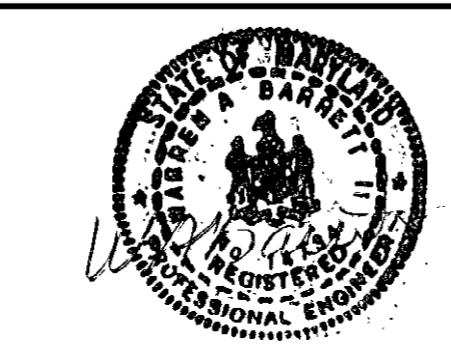
[Signature] 8/7/06
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 8/7/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT
FLEMING, INC.

[Logo]

BALTIMORE,
MARYLAND



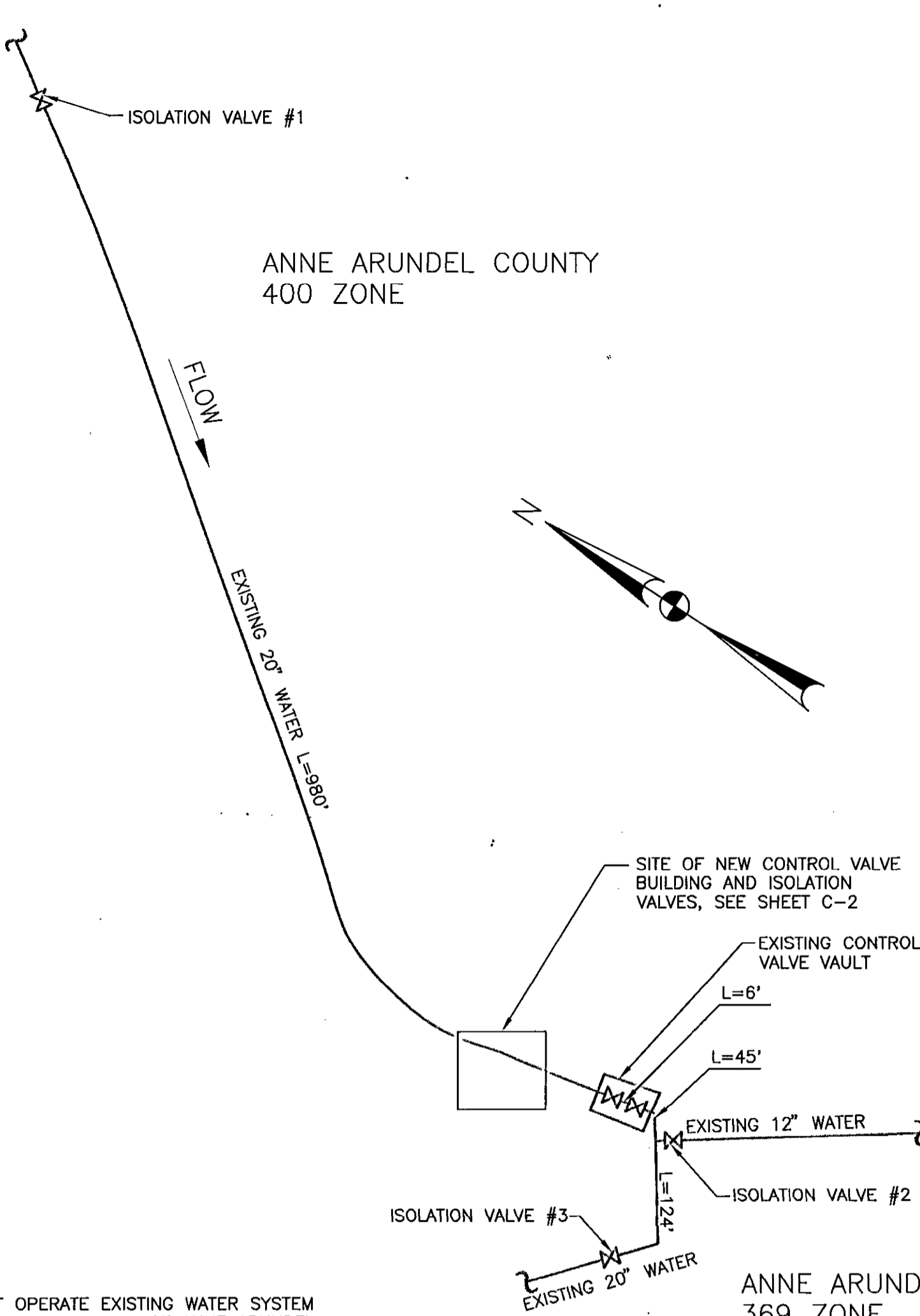
DES: YW				
DRN: YW				
CHK: EMB				
DATE: 8-06				
BY	NO.			DATE

GUILFORD ROAD IMPROVEMENTS

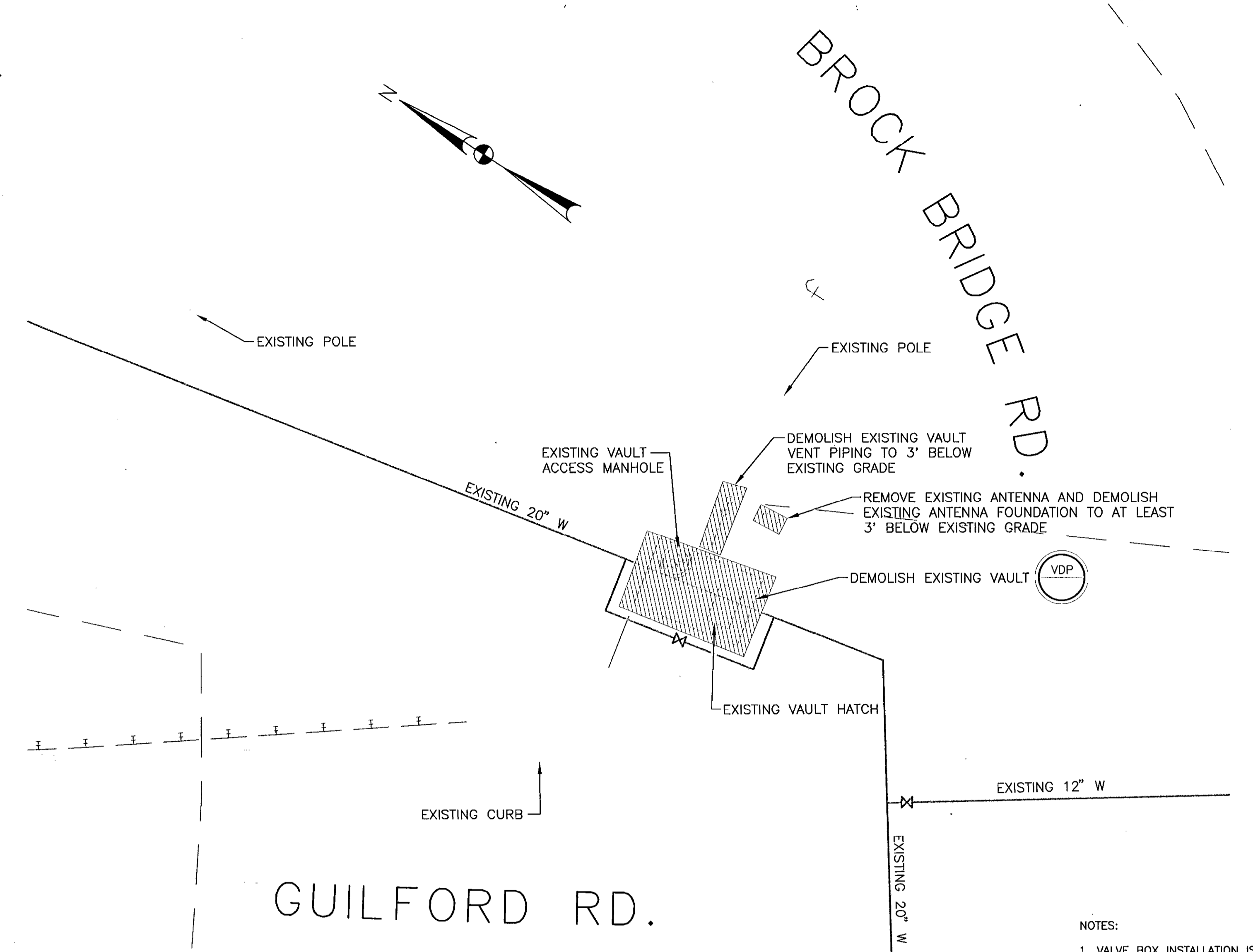
GUILFORD/BROCK BRIDGE ROAD
WATER VAULT RELOCATION
PLAN AND SECTIONS

SCALE

SHEET
107 OF 156



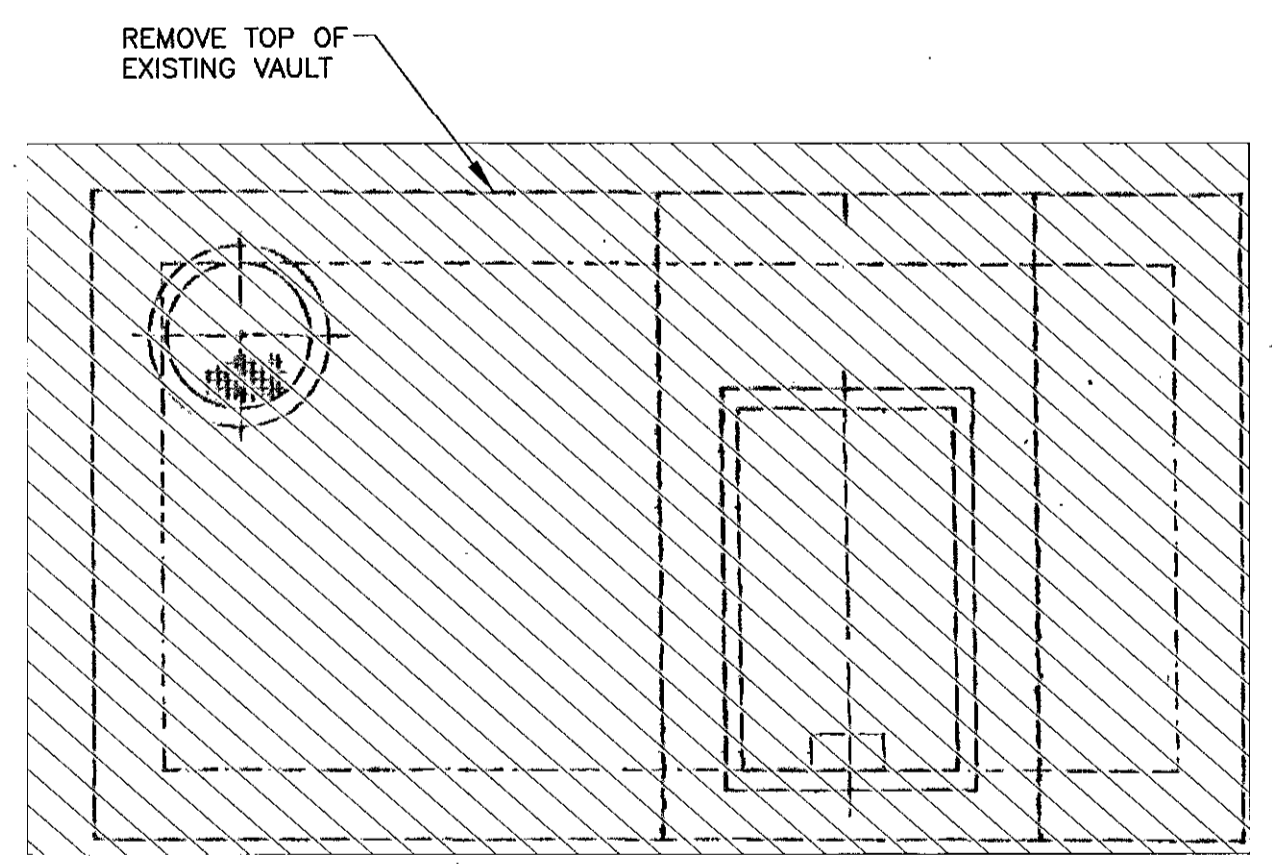
SHUT-OFF DIAGRAM
NOT TO SCALE



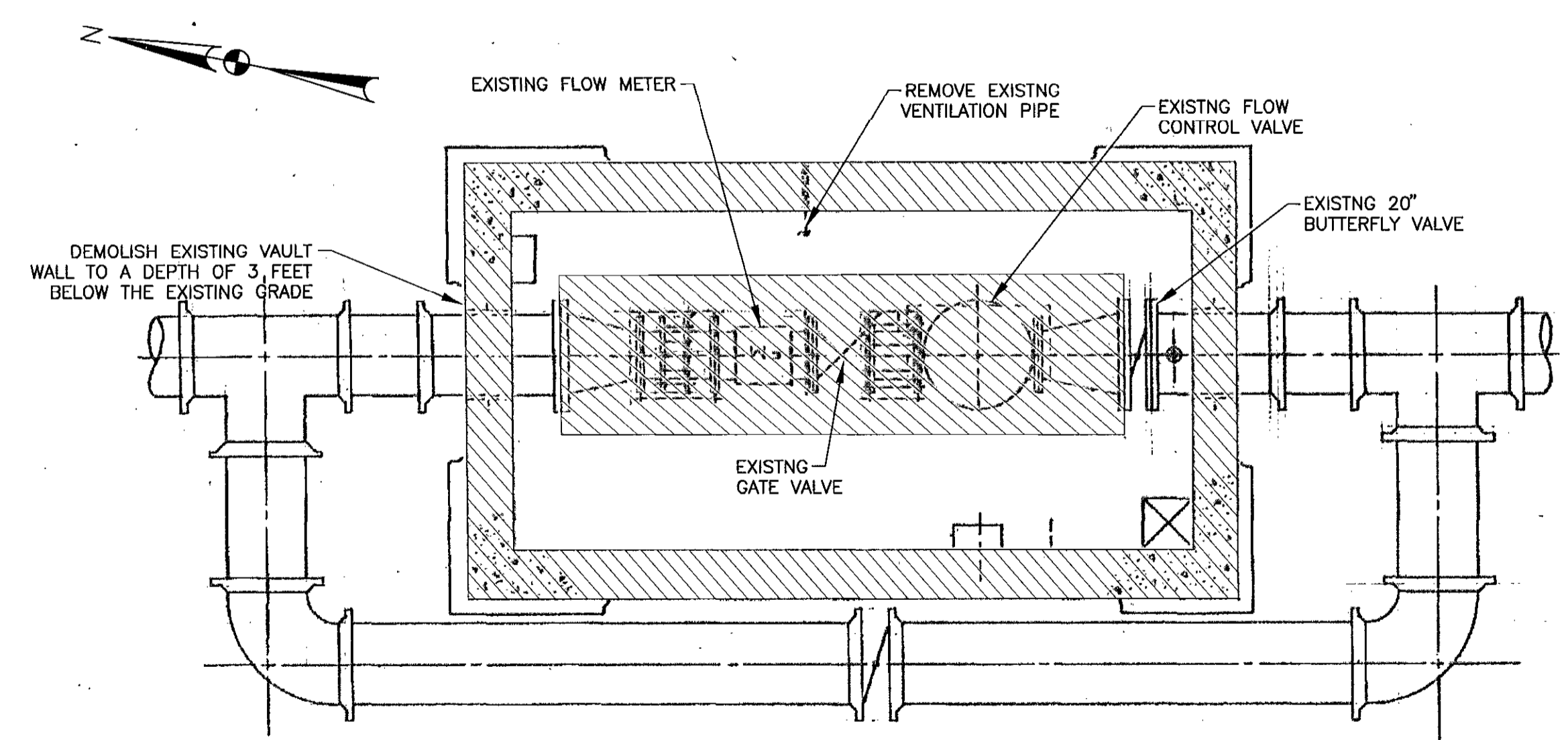
DEMOLITION SITE PLAN
SCALE: 1"=10'

- NOTES:
1. CONTRACTOR MAY NOT OPERATE EXISTING WATER SYSTEM VALVES WITHOUT DIRECT SUPERVISION OF ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS (DPW).
 2. BEFORE BEGINNING WORK, CONTRACTOR SHALL WORK WITH COUNTY DPW TO VERIFY THAT THE EXISTING VALVES SHOWN ARE FUNCTIONING AND CAN BE USED TO ISOLATE SYSTEM FOR SHUTDOWNS.

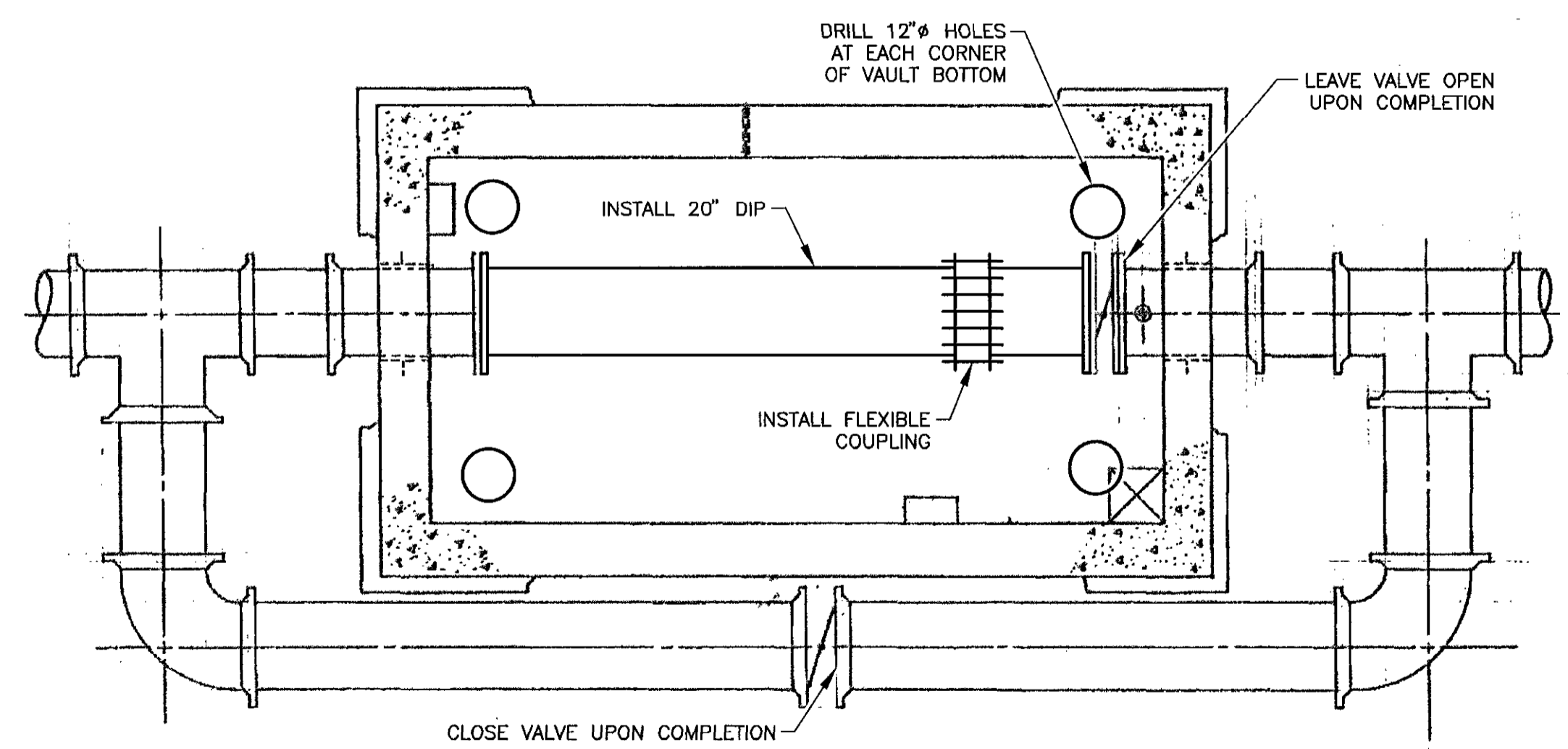
- NOTES:
1. VALVE BOX INSTALLATION IS TYPICAL FOR ALL BURIED VALVES.
 2. ROTATE TEE OR TAPPING SLEEVE AS NECESSARY TO MEET ELEVATION REQUIRED FOR 90° HB. IF ROTATION REQUIRED EXCEEDS ALLOWABLE ANGLE FOR VALVE OPERATOR, CONTACT ENGINEER.



TOP SLAB - PLAN
SCALE: 3/8"=1'-0"



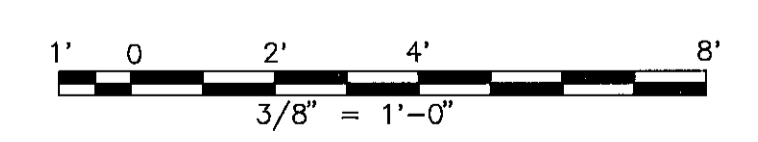
PLAN
SCALE: 3/8"=1'-0"



REVISED VAULT PLAN
SCALE: 3/8"=1'-0"

- NOTES:
1. REMOVE EXISTING PIPING INDICATED BY SHADED AREA AND REPLACE AS SHOWN ON DETAIL "RVP" THIS SHEET
 2. REMOVE ALL OTHER ELECTRICAL AND MECHANICAL ITEMS INSIDE THE VAULT.

- NOTES:
1. BACKFILL EXISTING VAULT WITH #57 STONE IN 12" LIFTS, TAMPED IN PLACE. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE THAT STONE IS WORKED UNDER PIPING SO THAT PIPING IS WELL SUPPORTED
 2. MODIFY OR REMOVE ANY EXISTING PIPE SUPPORTS NECESSARY TO ALLOW INSTALLATION OF 20" PIPE.



VAULT DEMOLITION PLAN

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Jan P. ... 8/7/06
DIRECTOR OF PUBLIC WORKS DATE

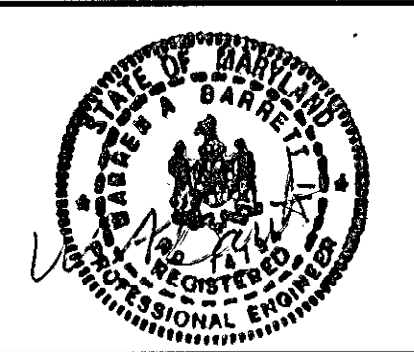
Richard ... 8/7/06
CHIEF, BUREAU OF ENGINEERING DATE

William ... 8-8-06
CHIEF, BUREAU OF HIGHWAYS DATE

John ... 8/7/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT
FLEMING, INC.

BALTIMORE,
MARYLAND

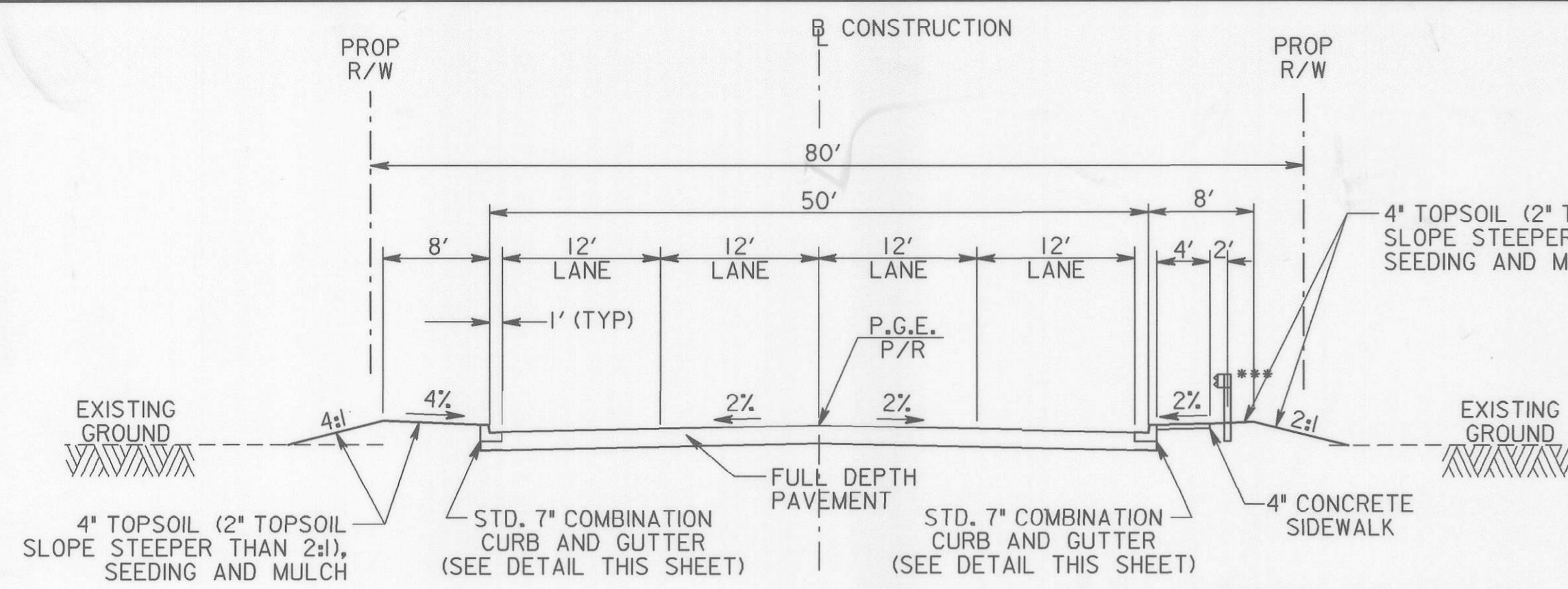


DES: YW					
DRN: YW					
CHK: EMB					
DATE: 8-06					
BY	NO.				DATE

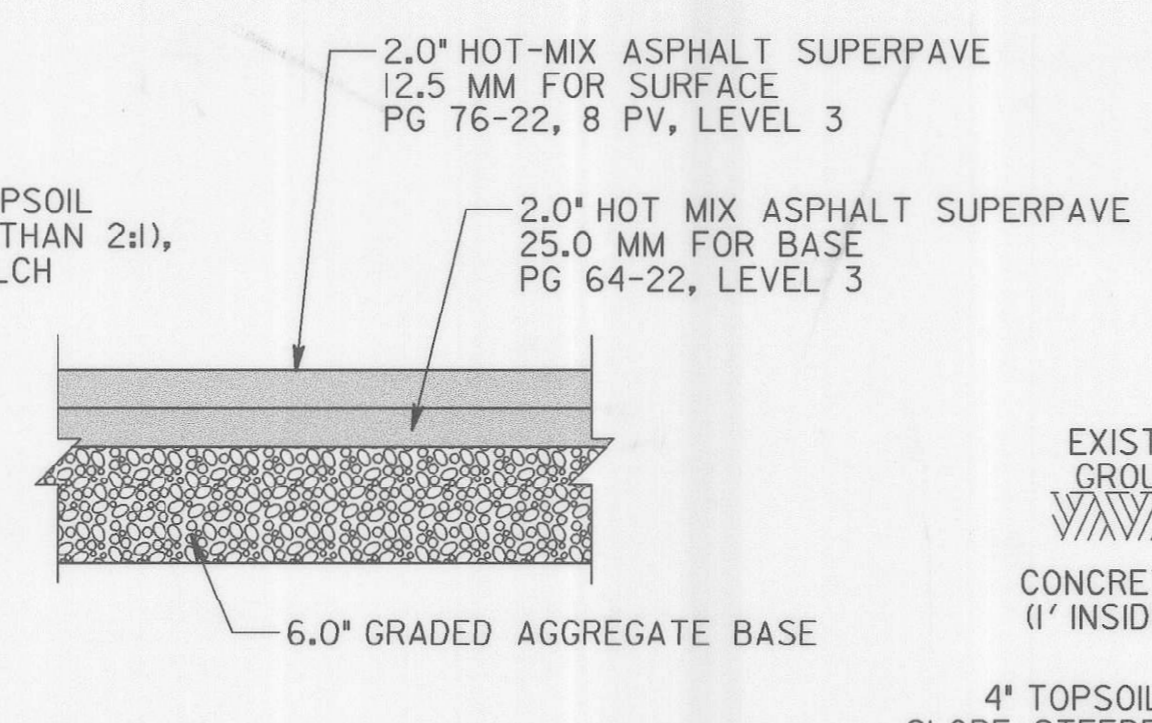
GUILFORD ROAD IMPROVEMENTS
GUILFORD/BROCK BRIDGE ROAD
WATER VAULT RELOCATION
DEMOLITION PLAN AND SHUT-OFF DIAGRAM

SCALE

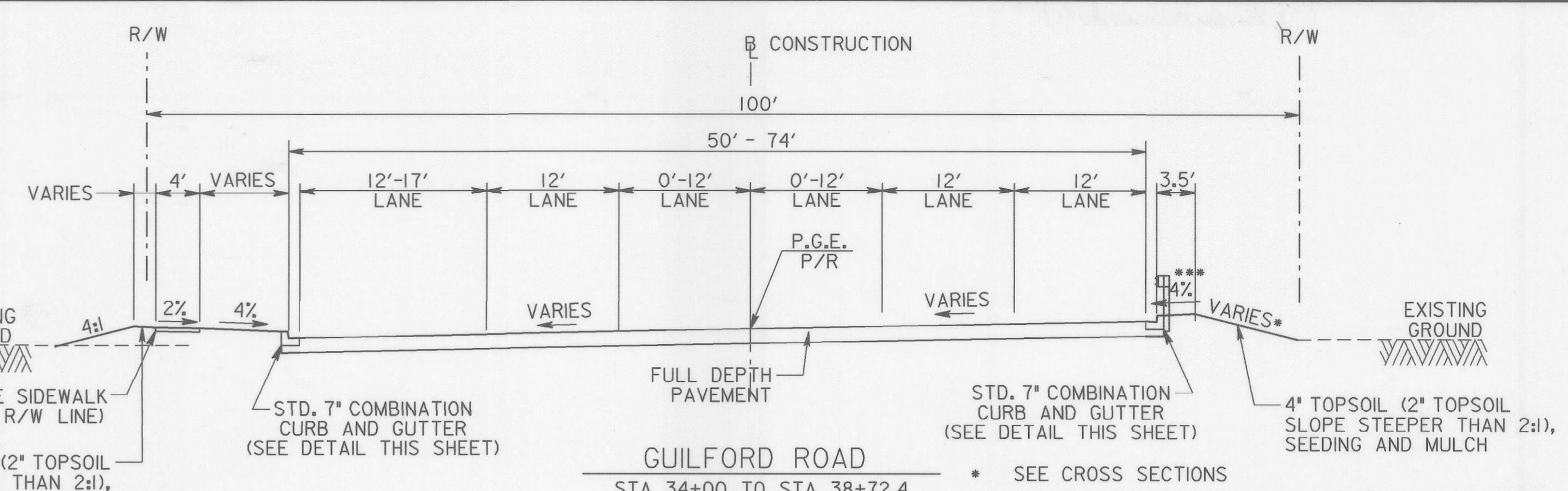
SHEET
108 OF 156



GUILFORD ROAD
STA 21+85 TO STA 23+00

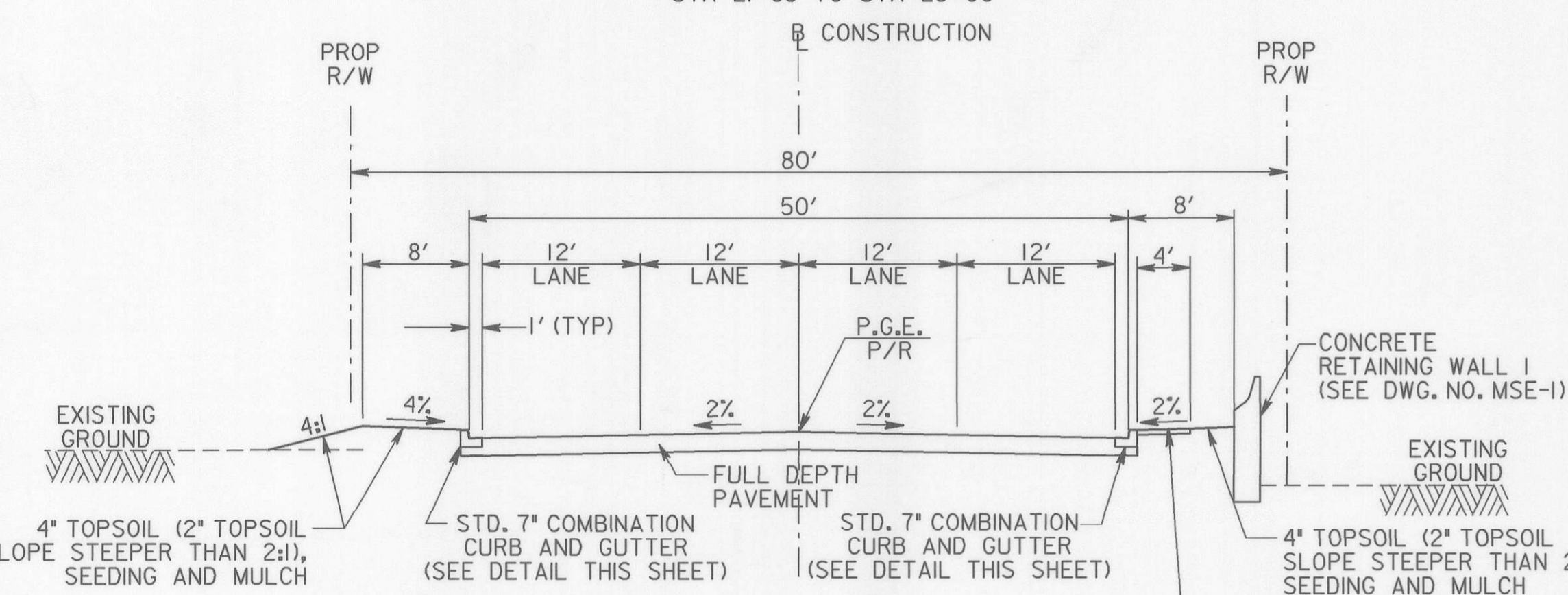


TEMPORARY PAVEMENT DETAIL
NOT TO SCALE

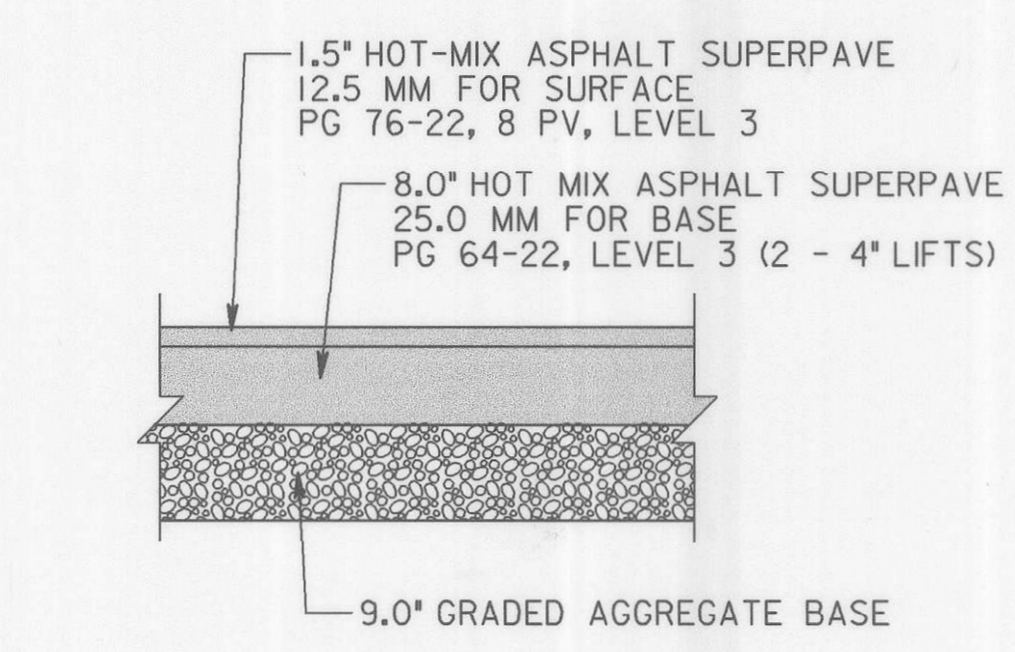


GUILFORD ROAD
STA 34+00 TO STA 38+72.4

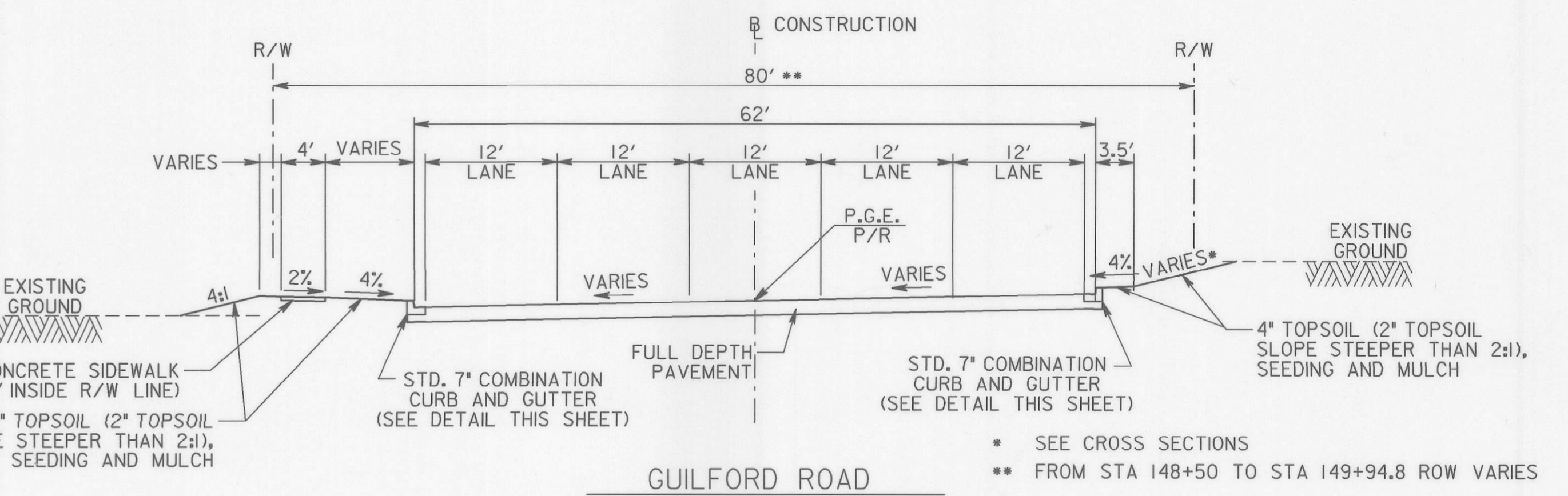
SEE CROSS SECTIONS
WBEAM USED ONLY WHERE INDICATED ON PLANS



GUILFORD ROAD
STA 23+00 TO STA 26+00

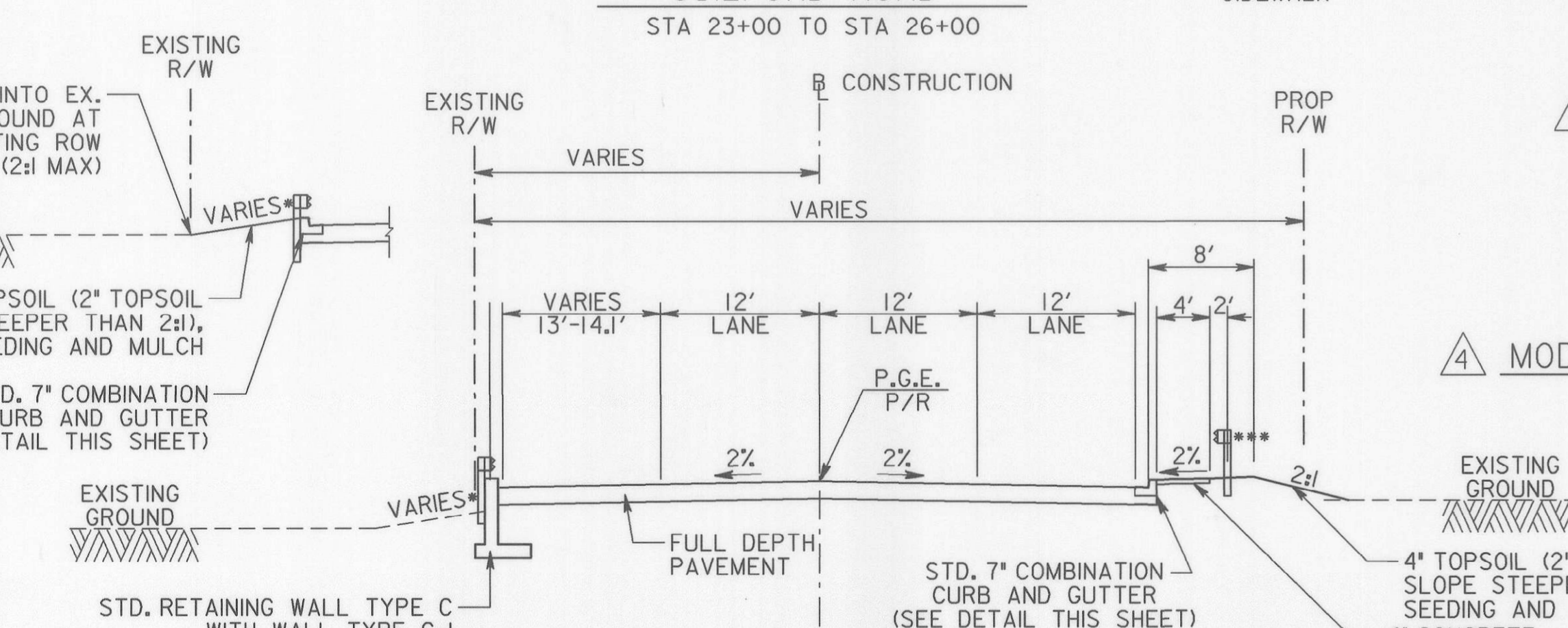


PAVEMENT DETAIL
NOT TO SCALE

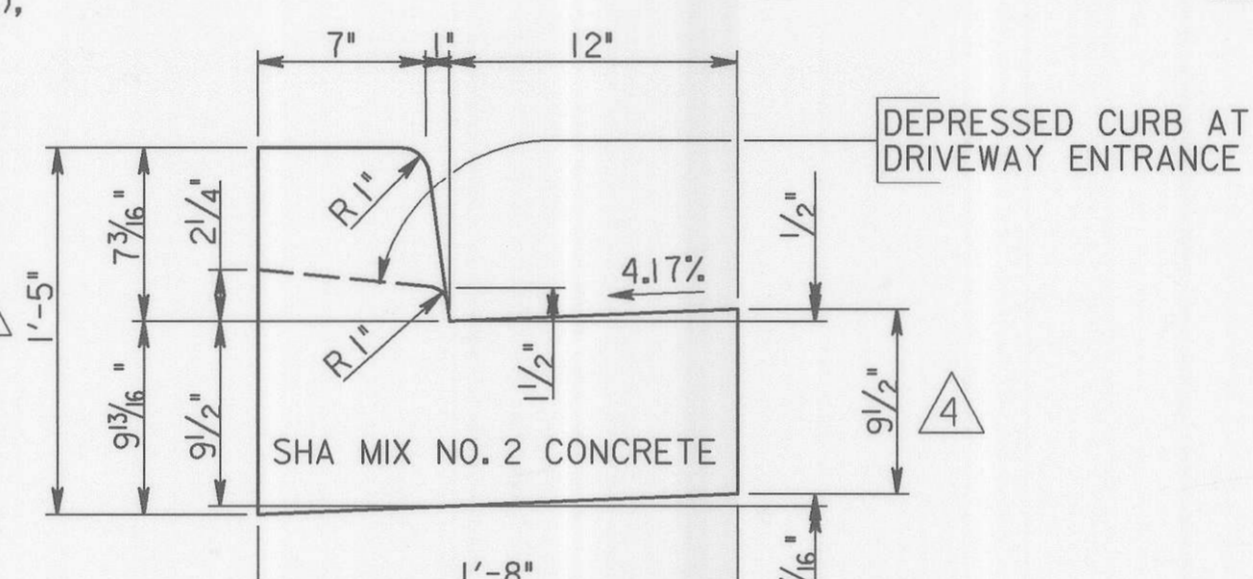


GUILFORD ROAD
STA 38+72.4 TO STA 149+94.8

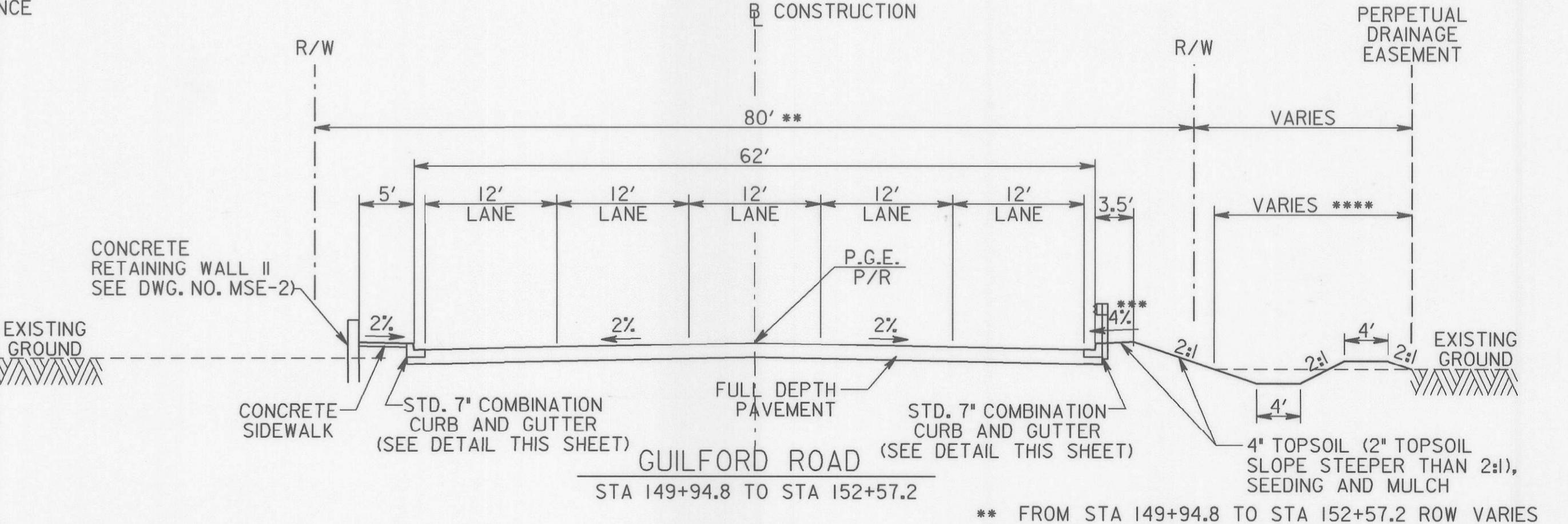
SEE CROSS SECTIONS
FROM STA 148+50 TO STA 149+94.8 ROW VARIES



GUILFORD ROAD
STA 26+00 TO STA 28+61.7

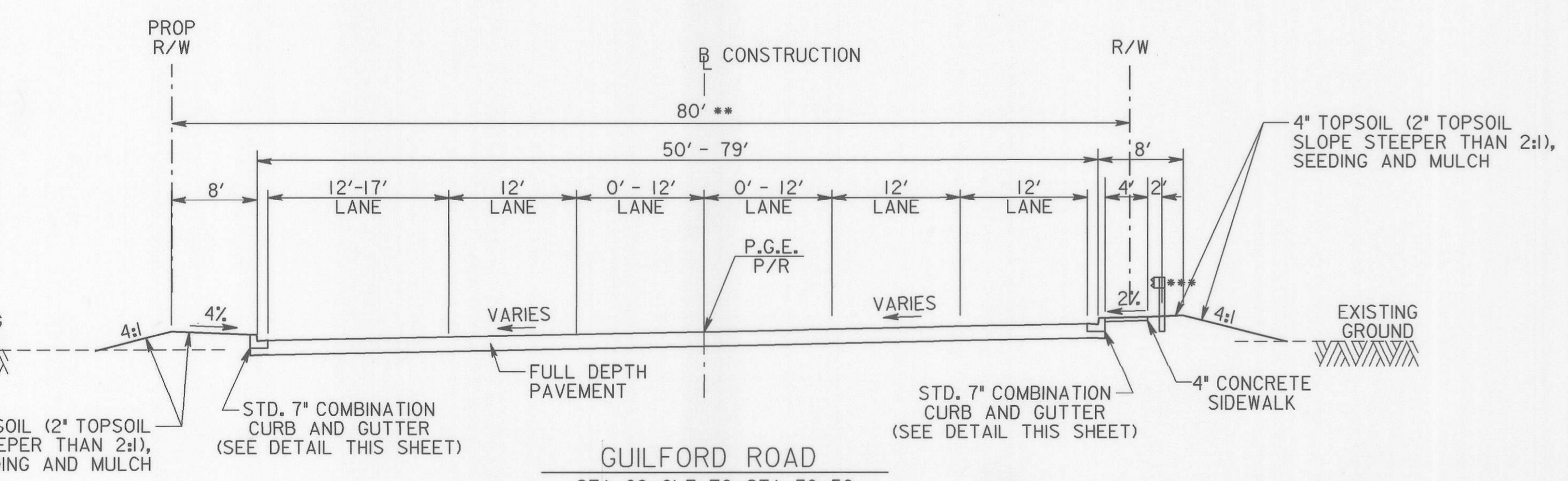


MODIFIED 7" COMBINATION CURB AND GUTTER
NOT TO SCALE



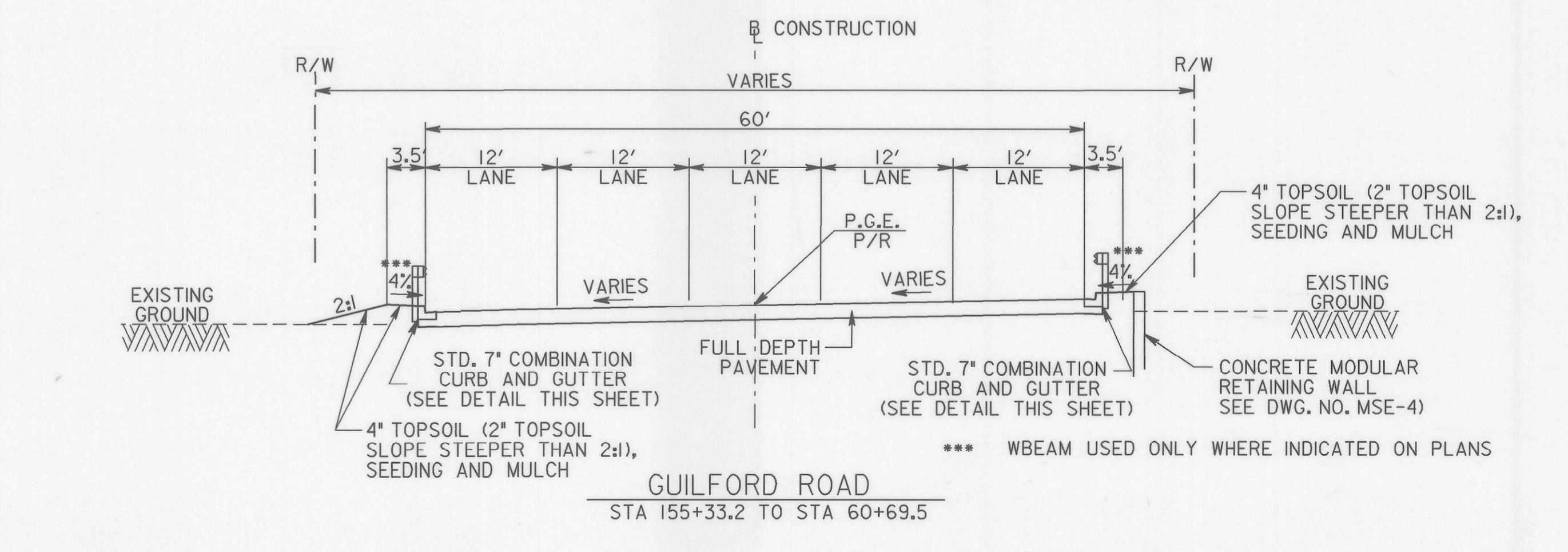
GUILFORD ROAD
STA 149+94.8 TO STA 152+57.2

FROM STA 149+94.8 TO STA 152+57.2 ROW VARIES
WBEAM USED ONLY WHERE INDICATED ON PLANS
FROM STA. 150+00 TO STA. 152+57.2



GUILFORD ROAD
STA 28+61.7 TO STA 32+50

FROM STA 29+62 TO STA 33+00 ROW VARIES
WBEAM USED ONLY WHERE INDICATED ON PLANS



GUILFORD ROAD
STA 155+33.2 TO STA 60+69.5

NOTE: IN LOCATIONS WHERE THE EXISTING PAVEMENT BOX IS UNDER PROPOSED FILL, THE EXISTING PAVEMENT SHALL BE SCARIFIED AND FILLED OVER.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
10/17/06
10/17/06
10-17-06
10/17/06

GANNETT FLEMING, INC.
BALTIMORE, MARYLAND



DES:	ADDENDUM NO. 4	10-17-06
DRN:		
CHK:		
DATE:		
BY:	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
TYPICAL SECTIONS AND DETAILS
CAPITAL PROJECT No. J-4175 AND B-3855

TSOI
SCALE 1" = 10'
SHEET 2 OF 156

MATCH LINE STA. 28+50 SEE SHEET PS02

MATCH LINE STA. 35+00 SEE SHEET PS04

REMOVAL OF EXISTING MASONRY
 1 CY - GUILFORD ROAD STA. 34+29 RT.
 1 CY - GUILFORD ROAD STA. 34+53 RT.
 1 CY - DORSEY RUN ROAD STA. 0+81 LT.

4 INCH SCHEDULE 80 PVC CONDUIT (24 INCH DEPTH) *
 49 LF - GUILFORD ROAD STA. 28+87 TO STA. 29+35 LT.
 78 LF - GUILFORD ROAD STA. 30+37 LT. TO STA. 30+37 RT.
 51 LF - GUILFORD ROAD STA. 31+08 TO STA. 31+59 LT.

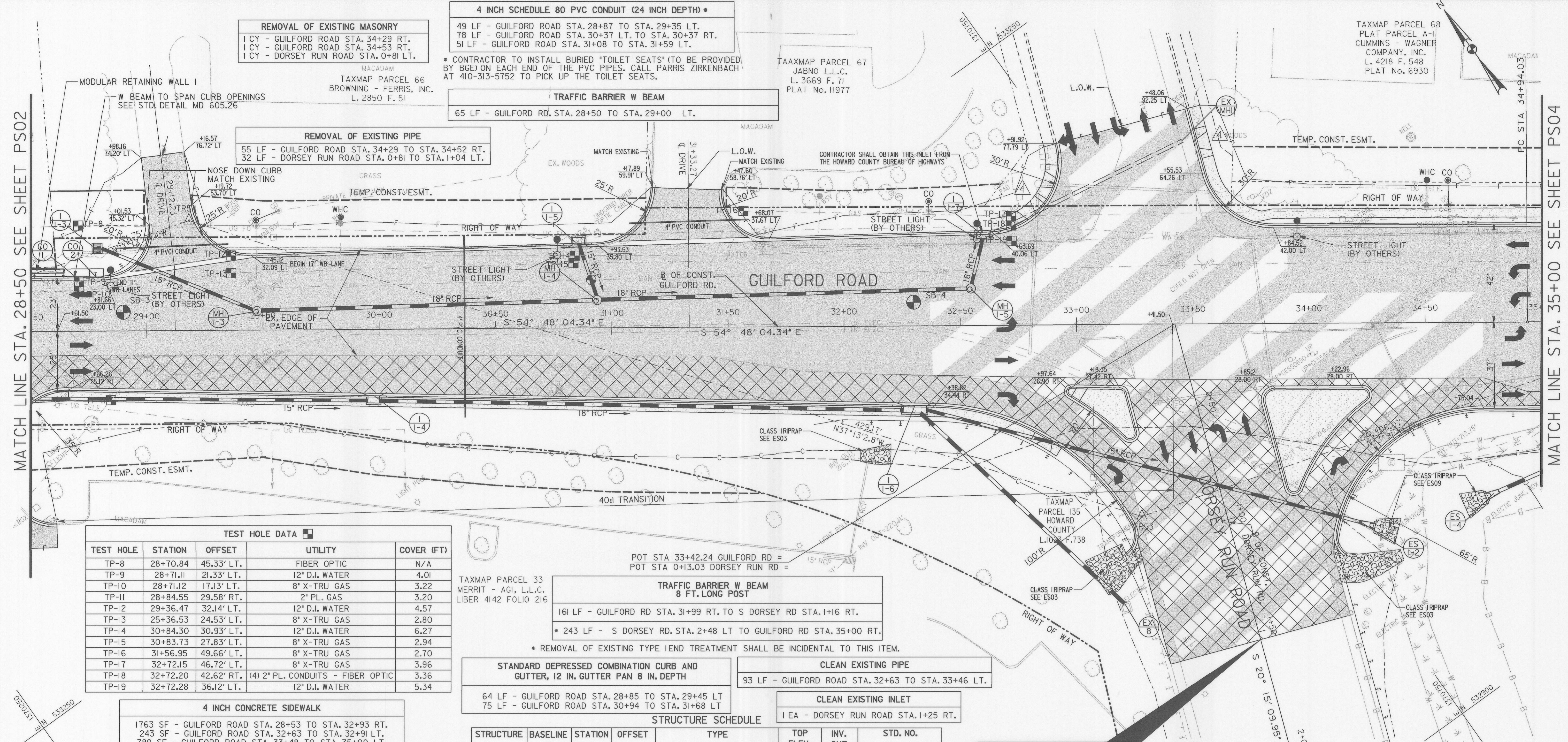
* CONTRACTOR TO INSTALL BURIED "TOILET SEATS" (TO BE PROVIDED BY BGE) ON EACH END OF THE PVC PIPES. CALL PARRIS ZIRKENBACH AT 410-313-5752 TO PICK UP THE TOILET SEATS.

TRAFFIC BARRIER W BEAM
 65 LF - GUILFORD RD. STA. 28+50 TO STA. 29+00 LT.

REMOVAL OF EXISTING PIPE
 55 LF - GUILFORD ROAD STA. 34+29 TO STA. 34+52 RT.
 32 LF - DORSEY RUN ROAD STA. 0+81 TO STA. 1+04 LT.

TAXMAP PARCEL 67
 JABNO L.L.C.
 L. 3669 F. 71
 PLAT No. 11977

TAXMAP PARCEL 68
 PLAT PARCEL A-1
 CUMMINS - WAGNER
 COMPANY, INC.
 L. 4218 F. 548
 PLAT No. 6930



TEST HOLE DATA

TEST HOLE	STATION	OFFSET	UTILITY	COVER (FT)
TP-8	28+70.84	45.33' LT.	FIBER OPTIC	N/A
TP-9	28+71.11	21.33' LT.	12" D.J. WATER	4.01
TP-10	28+71.12	17.13' LT.	8" X-TRU GAS	3.22
TP-11	28+84.55	29.58' RT.	2" PL. GAS	3.20
TP-12	29+36.47	32.14' LT.	12" D.J. WATER	4.57
TP-13	25+36.53	24.53' LT.	8" X-TRU GAS	2.80
TP-14	30+84.30	30.93' LT.	12" D.J. WATER	6.27
TP-15	30+83.73	27.83' LT.	8" X-TRU GAS	2.94
TP-16	31+56.95	49.66' LT.	8" X-TRU GAS	2.70
TP-17	32+72.15	46.72' LT.	8" X-TRU GAS	3.96
TP-18	32+72.20	42.62' RT.	(4) 2" PL. CONDUITS - FIBER OPTIC	3.36
TP-19	32+72.28	36.12' LT.	12" D.J. WATER	5.34

**TRAFFIC BARRIER W BEAM
 8 FT. LONG POST**
 161 LF - GUILFORD RD STA. 31+99 RT. TO S DORSEY RD STA. 1+16 RT.
 * 243 LF - S DORSEY RD. STA. 2+48 LT TO GUILFORD RD STA. 35+00 RT.
 * REMOVAL OF EXISTING TYPE I END TREATMENT SHALL BE INCIDENTAL TO THIS ITEM.

STANDARD DEPRESSED COMBINATION CURB AND GUTTER, 12 IN. GUTTER PAN 8 IN. DEPTH
 64 LF - GUILFORD ROAD STA. 28+85 TO STA. 29+45 LT
 75 LF - GUILFORD ROAD STA. 30+94 TO STA. 31+68 LT

CLEAN EXISTING PIPE
 93 LF - GUILFORD ROAD STA. 32+63 TO STA. 33+46 LT.

CLEAN EXISTING INLET
 1 EA - DORSEY RUN ROAD STA. 1+25 RT.

STRUCTURE SCHEDULE

STRUCTURE	BASELINE	STATION	OFFSET	TYPE	TOP ELEV.	INV. OUT	STD. NO.
I/1-3	GUILFORD	28+78.98	35.51' LT	STD. TYPE K INLET	229.50'	220.00'	SD-4.12
I/1-4	GUILFORD	29+97.51	28.40' RT	STD. A-5 INLET	226.54'	220.98'	SD-4.40
I/1-5	GUILFORD	30+86.04	35.62' LT	STD. A-5 INLET	223.61'	217.03'	SD-4.40
I/1-6	GUILFORD	32+30.32	34.22' RT	STD. A-10 INLET	221.35'	215.57'	SD-4.41
I/1-7	GUILFORD	32+59.97	38.64' LT	DOUBLE TYPE S INLET	220.31'	213.30'	SD-4.23
ES/1-2	DORSEY	01+14.04	49.78' LT	CONCRETE END SECTION	N/A	211.59'	SD-5.51
ES/1-4	GUILFORD	34+79.18	73.38' RT	CONCRETE END SECTION	N/A	208.01'	SD-5.51
MH/1-3	GUILFORD	29+47.48	8.15' LT	4' STANDARD PRECAST MH	228.56'	219.05'	G-5.12
MH/1-4	GUILFORD	30+93.76	11.80' LT	4' STANDARD PRECAST MH	223.33'	216.71'	G-5.12
MH/1-5	GUILFORD	32+54.66	15.76' LT	4' SHALLOW PRECAST MH	220.81'	215.73'	G-5.12
CO/1	GUILFORD	28+70.16	23.00' LT	10' COG OPENING	233.33'	N/A	MD-374.68
CO/2	GUILFORD	28+78.66	23.00' LT	5' COG OPENING	232.81'	N/A	MD-374.68

STATION, OFFSET AND ELEVATION ARE TAKEN AT TOP FACE OF CURB AT CENTER OF THE STRUCTURE FOR COG OPENINGS, A-5 AND A-10 INLETS. REMAINING STRUCTURES ARE MEASURED FROM CENTER OF THE STRUCTURE. MIN. DEPTH PAYMENT PER EACH A-5 OR A-10 INLET SHALL BE 6'2" MEASURED FROM THE INVERT OUT OF INLET TO THE TOP OF THE TROUGH SLAB. MIN. DEPTH PAYMENT PER EACH K OR S INLET SHALL BE 3'6" MEASURED FROM THE INVERT OUT OF INLET TO THE TOP OF THE GRATE. MIN. DEPTH PAYMENT PER EACH STD. MH SHALL BE 9'0" MEASURED FROM THE INVERT OUT OF MH TO THE TOP OF THE FRAME. MIN. DEPTH PAYMENT PER EACH SHALLOW MH SHALL BE 3'10" MEASURED FROM THE INVERT OUT OF MH TO THE TOP OF THE FRAME. VERTICAL DEPTH PAYMENT PER LINEAR FOOT SHALL INCLUDE ALL DEPTHS IN EXCESS OF THE MIN. DEPTH PAYMENT INCLUDING ALL APPURTENANCES.

LIMIT OF WORK
 DORSEY RUN ROAD
 STA. 1+53.36
 CONTRACT NO. J-4175

UTILITY ADJUSTMENT

STATION	OFFSET	EXISTING ELEV.	PROPOSED ELEV.	DIFFERENCE	TYPE
(SEE SHT. PS08)					

RELOCATE WATER HOUSE CONNECTION
 1 EA - GUILFORD ROAD STA. 29+83.85, 48.22' LT
 1 EA - GUILFORD ROAD STA. 34+51.17, 61.07' LT

RELOCATE SANITARY CLEANOUT
 1 EA - GUILFORD ROAD STA. 29+47.32, 47.19' LT
 1 EA - GUILFORD ROAD STA. 32+36.67, 53.25' LT
 1 EA - GUILFORD ROAD STA. 34+60.16, 60.89' LT

TYPE I TRAFFIC BARRIER END TREATMENT
 1 EA - GUILFORD ROAD STA 29+00 LT.

7" PCC PAVEMENT MIX 7
 143 SY - GUILFORD ROAD STA. 33+00 AND STA. 34+00 ISLANDS

CROSS REFERENCES

ITEM	DWG. NO.
TYPICAL SECTION	TS01
GEOMETRY PLAN	GS01
PROFILE SHEETS	PR03
STORM DRAIN PROFILES	SD02
E & S PLANS	ES03
TRAFFIC SIGNALIZATION PLANS	SG01
SIGNING & PVMT MARKING PLAN	SP03
MODULAR RETAINING WALL I	MSE-4

LEGEND

- FULL DEPTH PAVEMENT
- WEDGE AND LEVEL PAVEMENT
- CONCRETE
- PAVEMENT TO BE PAID FOR BY THE DEVELOPER
- TEST PIT
- PROPOSED TRAFFIC FLOW

TYPE A TRAFFIC BARRIER END TREATMENT
 1 EA - GUILFORD ROAD STA 31+87 TO STA 31+99 RT.

REMOVAL AND DISPOSAL OF EXISTING TRAFFIC BARRIER
 40 LF - S DORSEY RD STA 0+76 TO STA 1+16 RT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Director of Public Works: *William J. Mahab* 10/17/06
 Chief, Bureau of Highways

Chief, Bureau of Engineering: *Paul J. Shan* 10/17/06
 Chief, Division of Transportation, Special Projects Division

GANNETT FLEMING, INC.
 BALTIMORE, MARYLAND



DES: [] ADDENDUM NO. 4 10-17-06

DRN: []

CHK: []

DATE: []

BY: [] NO. [] DATE []

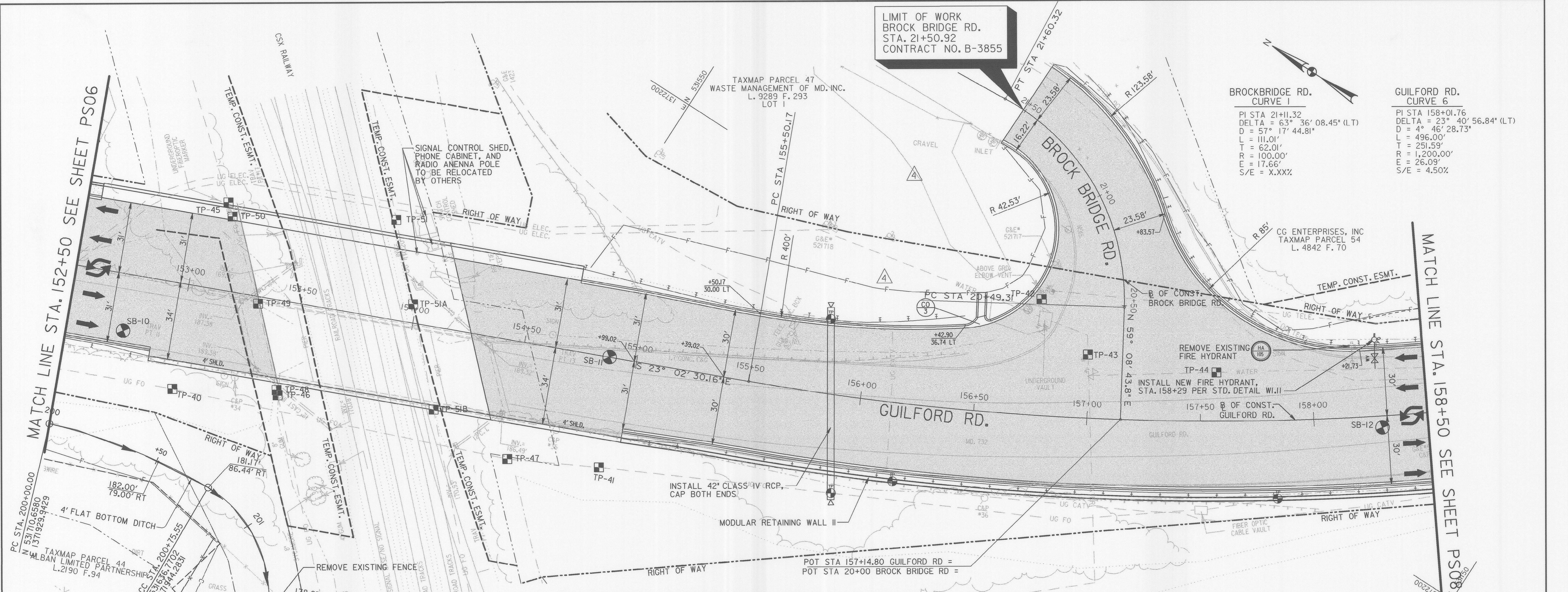
GUILFORD ROAD IMPROVEMENTS
 PLAN SHEET
 STA 28+50 TO STA 35+00
 CAPITAL PROJECT No. J-4175 AND B-3855

SCALE: 1" = 20'
 SHEET: 1 OF 156

LIMIT OF WORK
BROCK BRIDGE RD.
STA. 21+50.92
CONTRACT NO. B-3855

BROCKBRIDGE RD. CURVE 1
PI STA 21+11.32
DELTA = 63° 36' 08.45" (LT)
D = 57° 17' 44.81"
L = 111.01'
T = 62.01'
R = 100.00'
E = 17.66'
S/E = X.XX%

GUILFORD RD. CURVE 6
PI STA 158+01.76
DELTA = 23° 40' 56.84" (LT)
D = 4° 46' 28.73"
L = 496.00'
T = 251.59'
R = 1,200.00'
E = 26.09'
S/E = 4.50%



STATION	OFFSET	EXISTING ELEV.	PROPOSED ELEV.	DIFFERENCE	TYPE
157+01.82	19.38' LT.	189.41'	191.27'	1.87'	WATER VALVE

49 LF - GUILFORD ROAD STA. 153+09 LT. TO STA. 153+00 RT.
--

1 EA - GUILFORD ROAD STA 152+59 TO STA. 152+92 RT.
1 EA - GUILFORD ROAD STA 154+66 TO STA 154+99 LT.
1 EA - GUILFORD ROAD STA 154+96 TO STA 155+29 RT.

9 LF - GUILFORD ROAD STA. 152+50 TO STA. 152+59 RT.
93 LF - GUILFORD ROAD STA. 154+99 TO STA. 155+92 LT.
329 LF - GUILFORD ROAD STA. 155+29 TO STA. 158+50 RT.
145 LF - BROCKBRIDGE RD. STA. 20+89 TO GUILFORD ROAD STA. 158+50 RT.

TEST HOLE	STATION	OFFSET	UTILITY	COVER (FT)
TP-40	153+00.70	46.52' RT.	(2) 2" PL. CONDUITS - FIBER OPTIC	2.06
TP-41	154+91.56	48.45' RT.	(2) 2" PL. CONDUITS - FIBER OPTIC	1.60
TP-42	156+76.75	51.17' LT.	6" C.I. VENT PIPE	2.16
TP-43	156+99.13	27.85' LT.	12" D.J. WATER	8.25
TP-44	157+57.11	21.33' LT.	12" D.J. WATER	7.04
TP-45	153+11.11	38.38' LT.	(8) 2" PL. CONDUITS - FIBER OPTIC	3.20
TP-46	153+46.88	41.30' RT.	(8) 2" PL. CONDUITS - FIBER OPTIC	3.49
TP-47	154+51.17	51.69' RT.	6" PVC CONDUIT - FIBER OPTIC	3.47
TP-48	153+45.99	39.10' RT.	(8) 2" PL. CONDUITS - FIBER OPTIC	3.62
TP-49	153+31.50	3.16' RT.	(8) 2" PL. CONDUITS - FIBER OPTIC	2.22
TP-50	153+13.98	32.54' LT.	(8) 2" PL. CONDUITS - FIBER OPTIC	3.20
TP-51	153+85.18	43.33' LT.	(8) 1-1/4" PL. CONDUITS - FIBER OPTIC	3.30
TP-51A	153+98.72	8.23' LT.	(8) 1-1/4" PL. CONDUITS - FIBER OPTIC	3.66
TP-51B	154+15.51	35.85' RT.	(8) 1-1/4" PL. CONDUITS - FIBER OPTIC	3.53

STRUCTURE	BASELINE	STATION	OFFSET	TYPE	STD. NO.
CO/3	GUILFORD	156+49.34	38.14' LT	STD. CURB OPENING FOR COMBINATION CURB AND GUTTER	MD 640.02

STRUCTURE IS MEASURED FROM CENTER OF STRUCTURE AT THE FLOW LINE. CONCRETE GUTTER SHALL EXTEND TO TOE OF SLOPE.

1 EA - GUILFORD ROAD STA 155+92 TO STA 156+42 LT.
1 EA - BROCKBRIDGE RD STA 20+89 TO STA 21+39 RT.

6 LF - GUILFORD ROAD STA. 152+50 TO STA. 152+56 LT
283 LF - GUILFORD ROAD STA. 154+70 TO STA. 156+53 LT
223 LF - GUILFORD ROAD STA. 156+76 TO STA. 158+50 LT
38 LF - GUILFORD ROAD STA. 152+50 TO STA. 152+88 RT
359 LF - GUILFORD ROAD STA. 154+99 TO STA. 158+50 RT

25 SF - GUILFORD ROAD STA. 152+50 TO STA. 152+56 LT.
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ITEM	DWG. NO.
TYPICAL SECTION	TS01
GEOMETRY PLAN	GS01
PROFILE SHEETS	PR07
STORM DRAIN PROFILES	SD01
E & S PLANS	ES07
SIGNING & PVMT MARKING PLAN	SP07
RETAINING WALL 2	MSE-2
MODULAR RETAINING WALL II	MSE-5,6

[Symbol]	FULL DEPTH PAVEMENT
[Symbol]	WEDGE AND LEVEL PAVEMENT
[Symbol]	CONCRETE
[Symbol]	TEST PIT
[Symbol]	PROPOSED TRAFFIC FLOW

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John M. ... 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

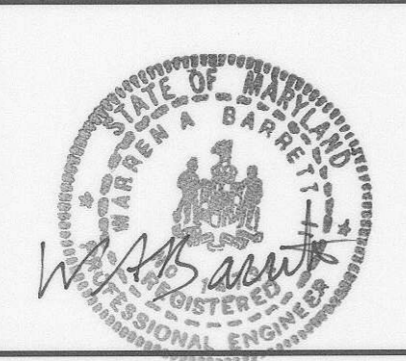
Steve Shanahan 10/17/06
CHIEF, BUREAU OF ENGINEERING DATE

... 10-17-06
CHIEF, DIVISION OF HIGHWAYS DATE

... 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



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CHK:		
DATE:	BY	NO.

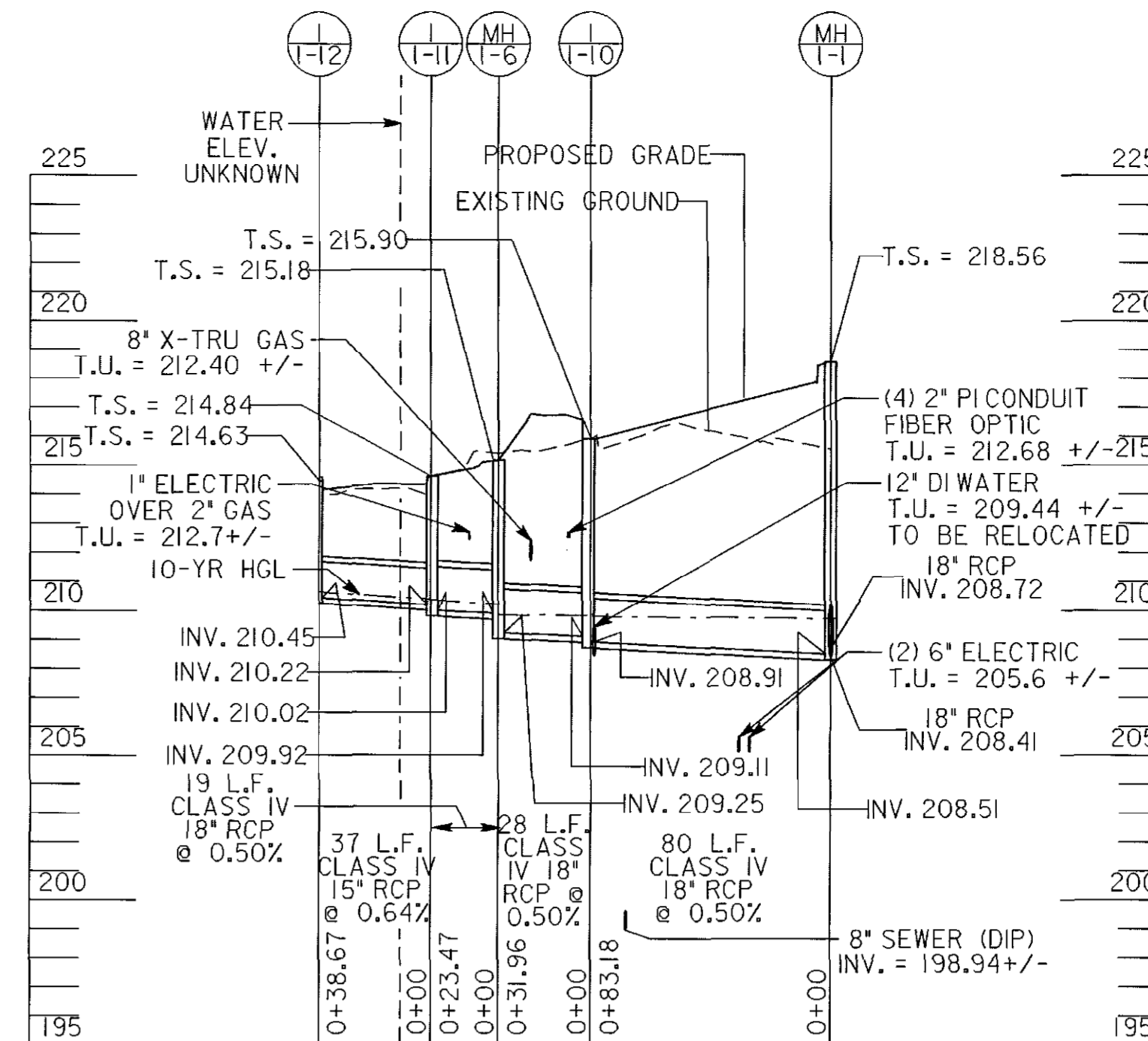
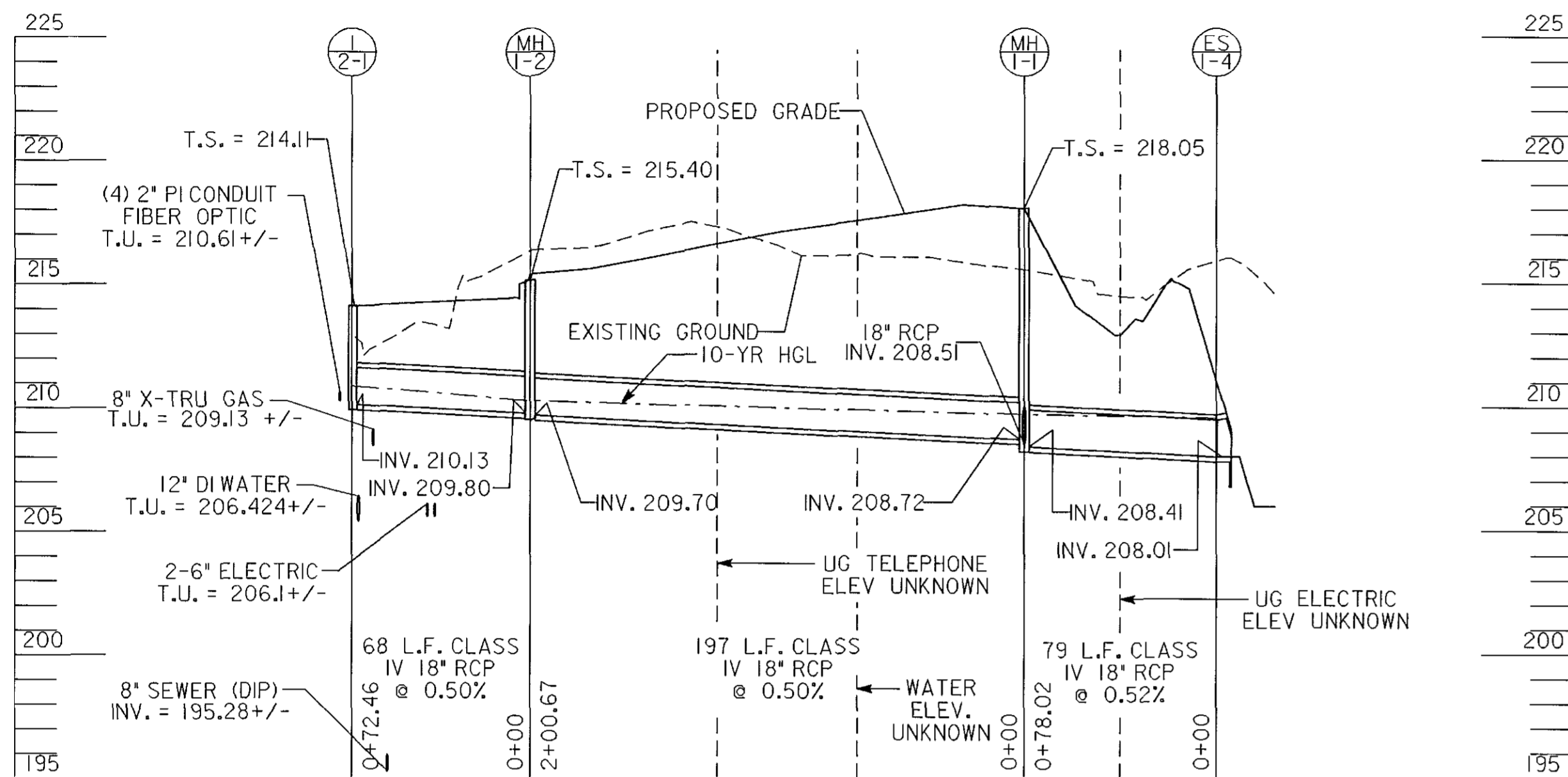
GUILFORD ROAD IMPROVEMENTS

PLAN SHEET
STA 152+50 TO STA 158+50
CAPITAL PROJECT No. J-4175 AND B-3855

PS07

SCALE
1" = 20'

SHEET
11 OF 156



4

CROSS REFERENCES	
ITEM	DWG. NO.
TYPICAL SECTION	TS01
GEOMETRY PLAN	GS01
PROFILE SHEETS	PR01
ROADWAY PLANS	PS01
E & S PLANS	ES01
SIGNING & PVMT MARKING PLAN	SP01

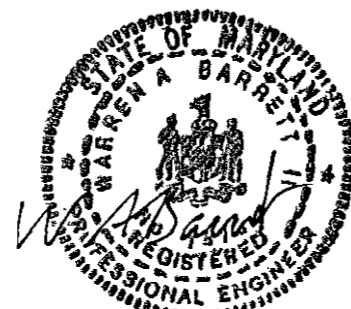
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John J. [Signature] 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

Steve Shaner 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

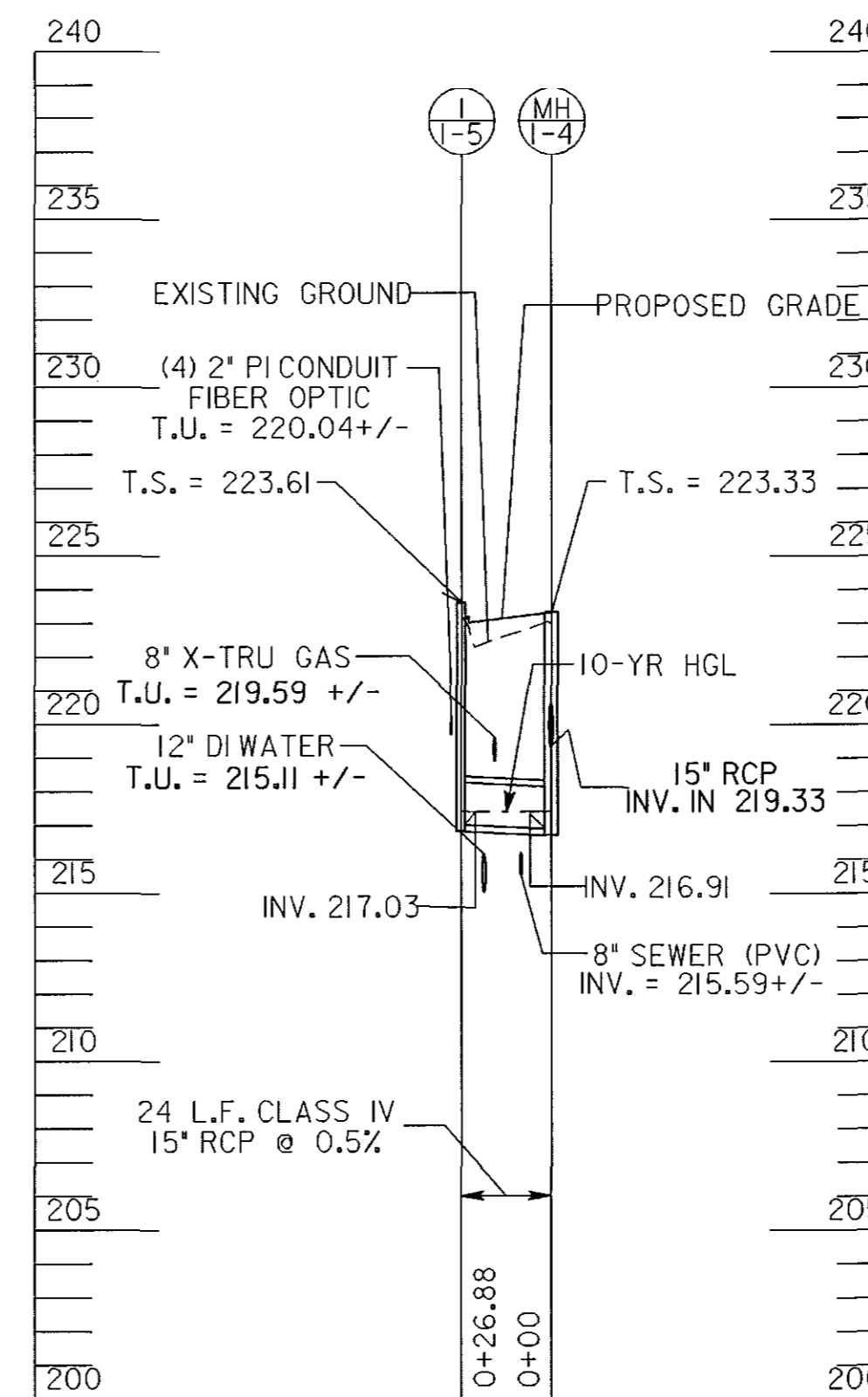
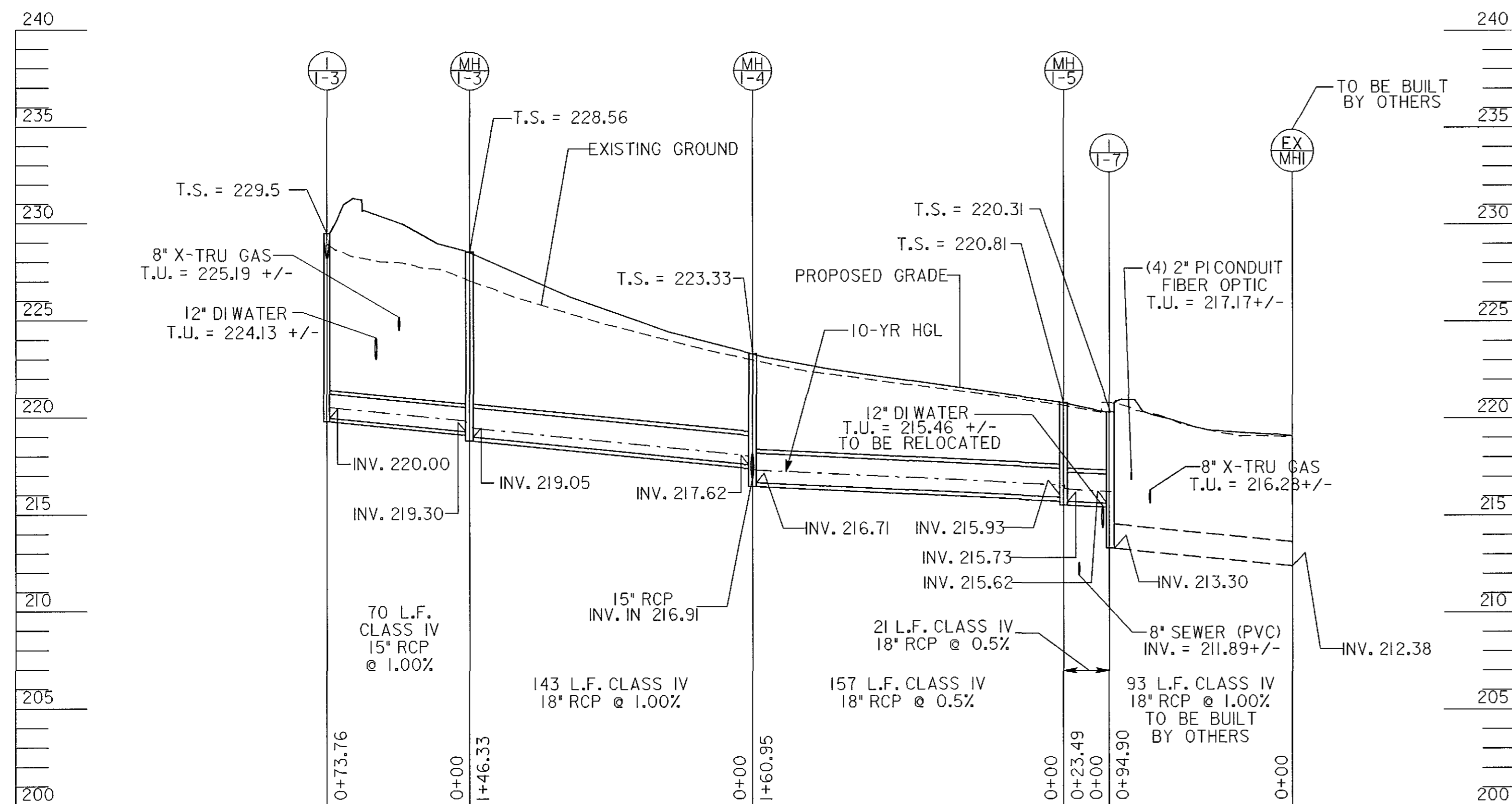
BALTIMORE, MARYLAND



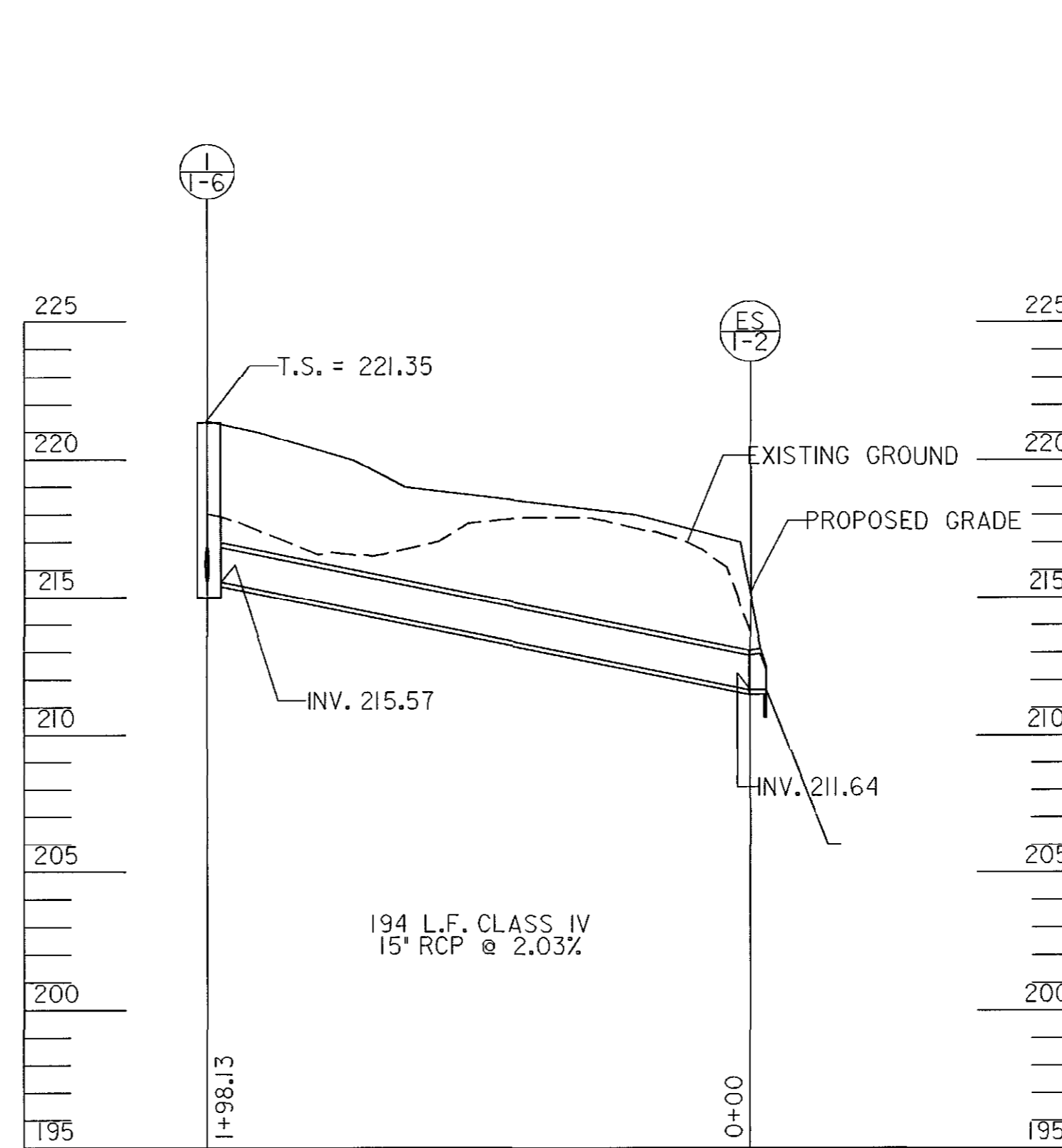
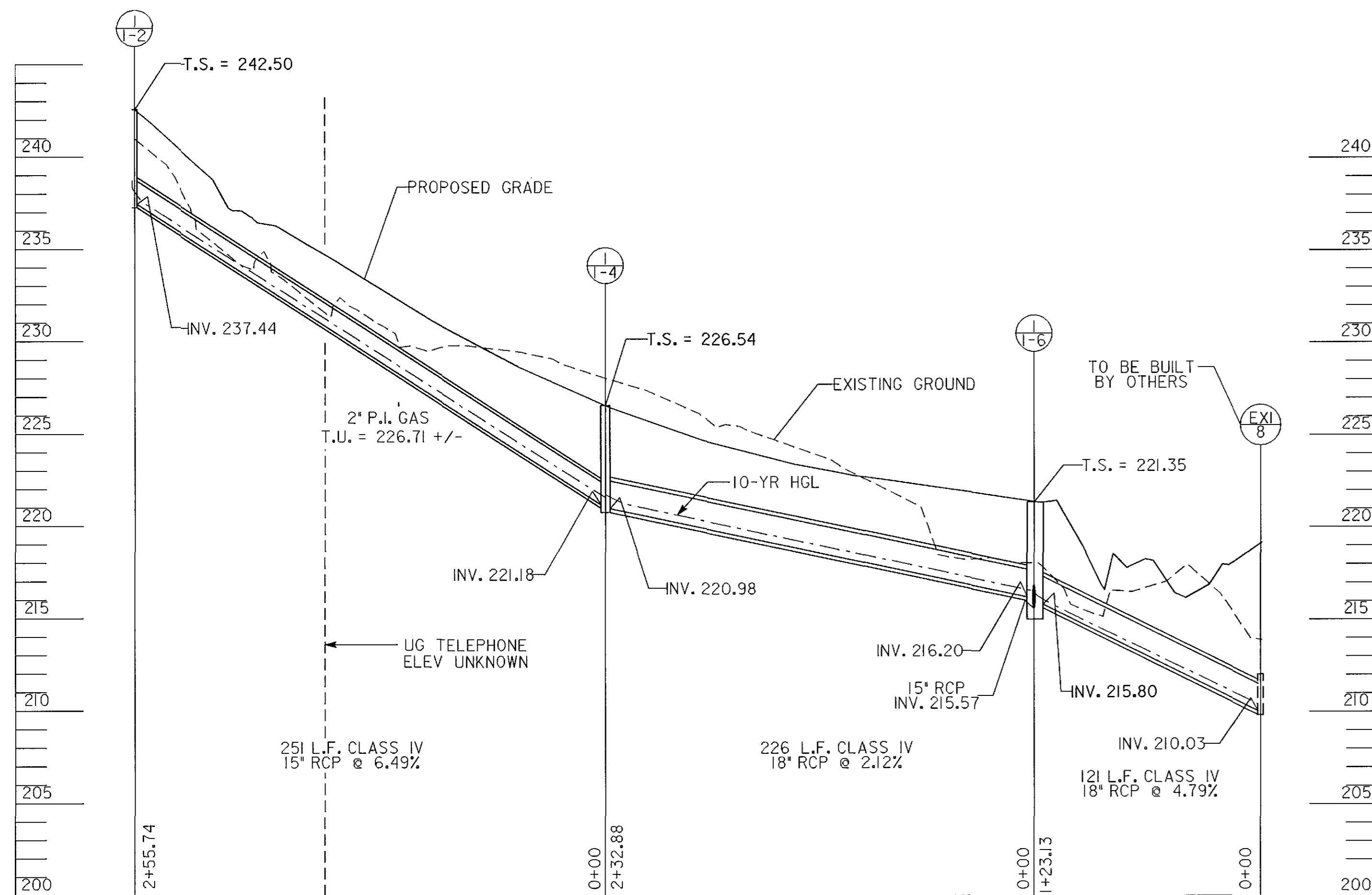
DES:		ADDENDUM NO. 4	10-17-06
DRN:			
CHK:			
DATE:	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
STORM DRAIN PROFILES
CAPITAL PROJECT No. J-4175 AND B-3855

SD01
SCALE:
H: 1"=50'
V: 1"=5'
SHEET
44 OF 156



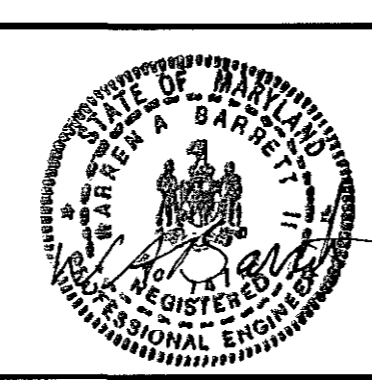
CROSS REFERENCES	
ITEM	DWG. NO.
TYPICAL SECTION	TS01
GEOMETRY PLAN	GS01
PROFILE SHEETS	PR01
ROADWAY PLANS	PS01
E & S PLANS	ES01
SIGNING & PVMT MARKING PLAN	SP01



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: *Jan 7/06* 10/17/06
 Chief, Bureau of Engineering: *Steve Shaver* 10/17/06
 Chief, Bureau of Highways: *Willie Z. [unclear]* 10/17/06
 Chief, Division of Transportation, Special Projects Division

GANNETT FLEMING, INC.

 BALTIMORE, MARYLAND



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DRN:		
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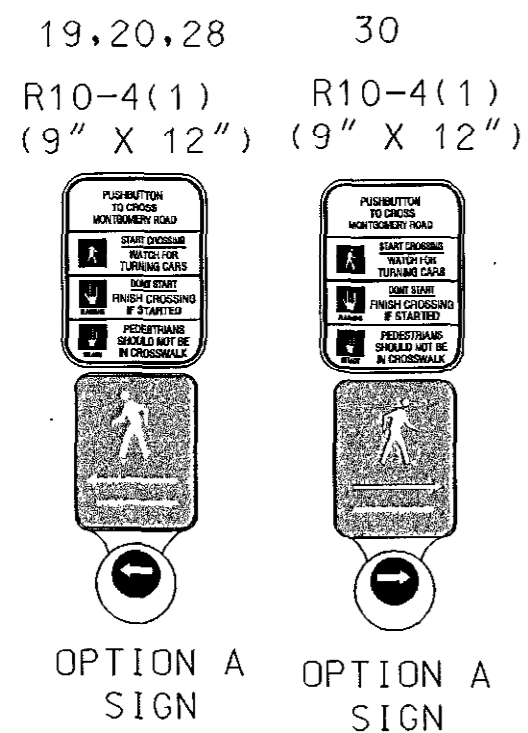
GUILFORD ROAD IMPROVEMENTS
 STORM DRAIN PROFILES
 CAPITAL PROJECT No. J-4175 AND B-3855

SD02
 SCALE
 H: 1"=50'
 V: 1"=5'
 SHEET
 45 OF 156

BORDER REV. DATE: JUNE 11, 2004

DORSEY RUN IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

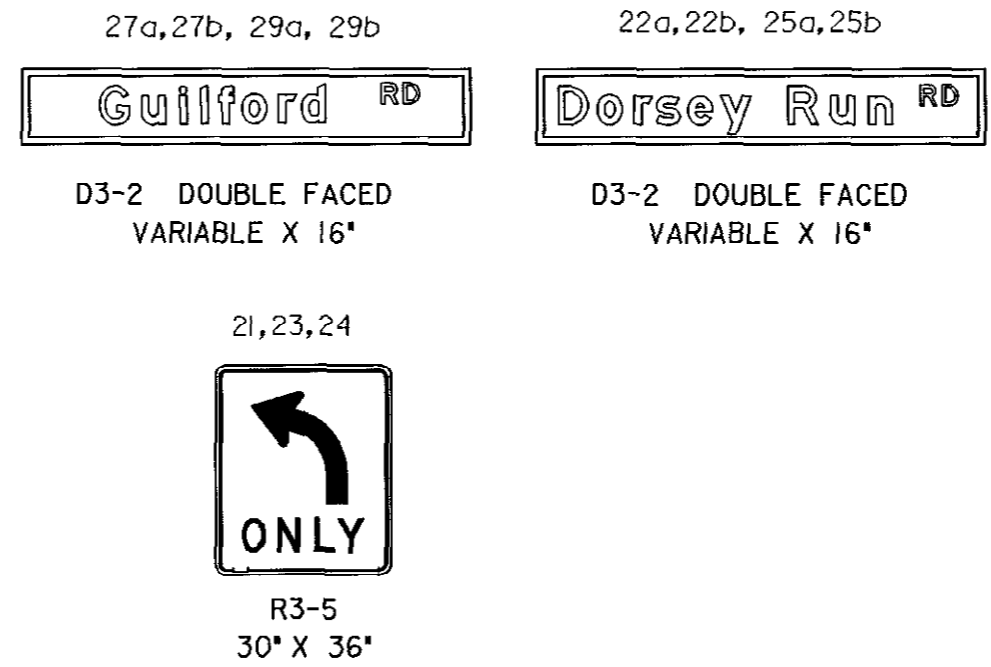
PROPOSED SIGNS



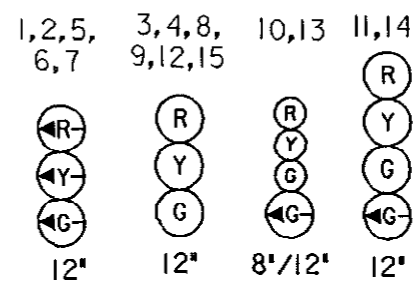
PROPOSED SIGNALS



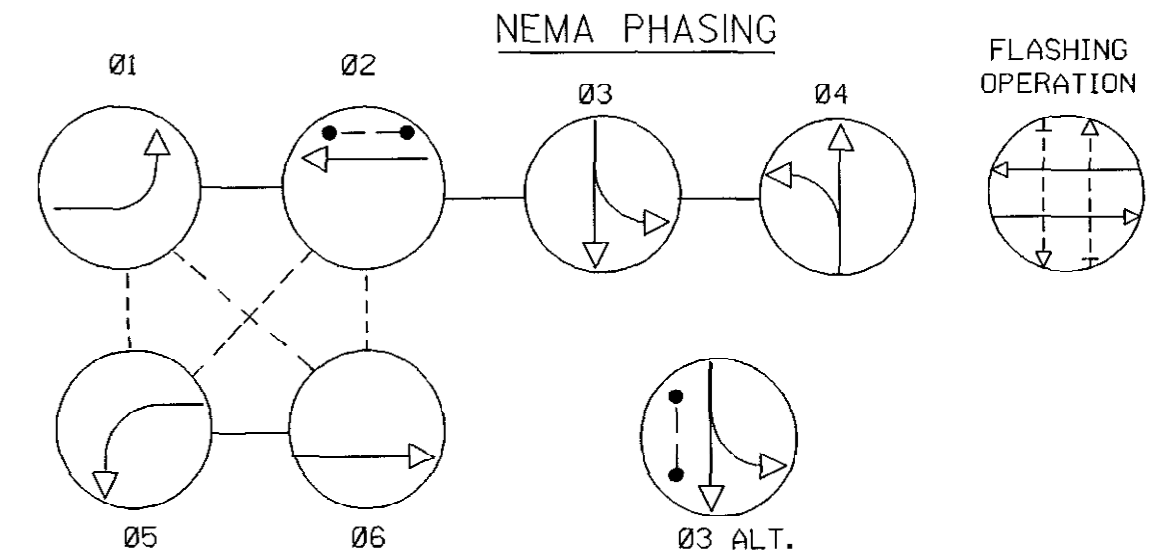
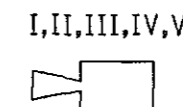
EXISTING SIGNS



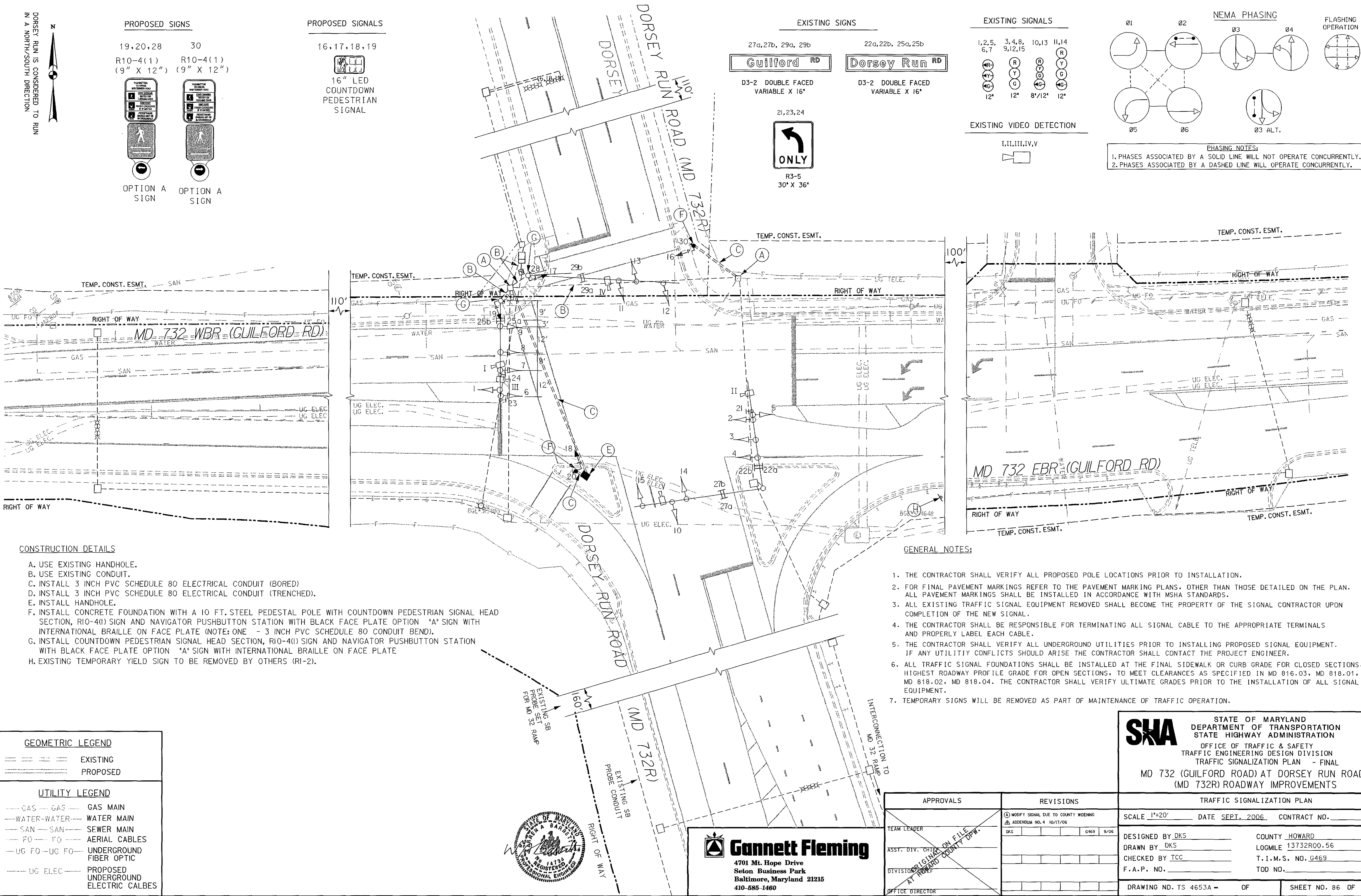
EXISTING SIGNALS



EXISTING VIDEO DETECTION



PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.



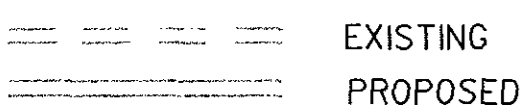
CONSTRUCTION DETAILS

- A. USE EXISTING HANDHOLE.
- B. USE EXISTING CONDUIT.
- C. INSTALL 3 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (BORED)
- D. INSTALL 3 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
- E. INSTALL HANDHOLE.
- F. INSTALL CONCRETE FOUNDATION WITH A 10 FT. STEEL PEDESTAL POLE WITH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1) SIGN AND NAVIGATOR PUSHBUTTON STATION WITH BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRILLE ON FACE PLATE (NOTE: ONE - 3 INCH PVC SCHEDULE 80 CONDUIT BEND).
- G. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, R10-4(1) SIGN AND NAVIGATOR PUSHBUTTON STATION WITH BLACK FACE PLATE OPTION "A" SIGN WITH INTERNATIONAL BRILLE ON FACE PLATE
- H. EXISTING TEMPORARY YIELD SIGN TO BE REMOVED BY OTHERS (R1-2).

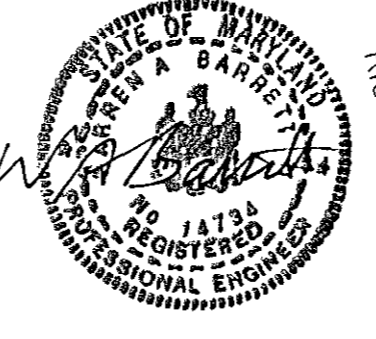
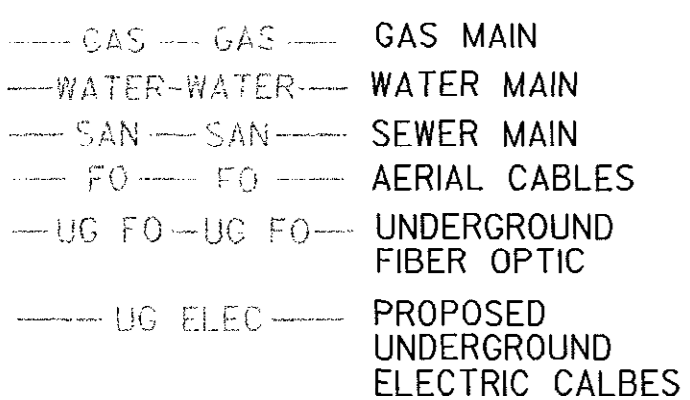
GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
6. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
7. TEMPORARY SIGNS WILL BE REMOVED AS PART OF MAINTENANCE OF TRAFFIC OPERATION.

GEOMETRIC LEGEND



UTILITY LEGEND



Gannett Fleming
 4701 Mt. Hope Drive
 Seton Business Park
 Baltimore, Maryland 21215
 410-585-1460

APPROVALS	REVISIONS
TEAM LEADER	① MODIFY SIGNAL DUE TO COUNTY WIDENING
ASST. DIV. CHIEF ON FILE	② ADDENDUM NO. 4 10/17/06
DIVISION DIRECTOR	DKS [] G469 9/06
OFFICE DIRECTOR	

TRAFFIC SIGNALIZATION PLAN
SCALE 1"=20'
DATE SEPT. 2006
CONTRACT NO.
DESIGNED BY DKS
COUNTY HOWARD
DRAWN BY DKS
LOGMILE 13732R00.56
CHECKED BY TCC
T.I.M.S. NO. G469
F.A.P. NO.
TOD NO.
DRAWING NO. TS 4653A - OF
SHEET NO. 86 OF 156

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 TRAFFIC SIGNALIZATION PLAN - FINAL
 MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD
 (MD 732R) ROADWAY IMPROVEMENTS

BORNER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD INTERSECTION. PARTIAL RECONSTRUCTION OF THE TRAFFIC SIGNAL IS REQUIRED. MD 732 (GUILFORD ROAD) IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION, DORSEY RUN ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE AS IN EXISTING CONDITIONS. THIS SIGNAL IS INTERCONNECTED TO THE EASTBOUND MD 32/ DORSEY RUN ROAD AND THE WESTBOUND MD 32/ DORSEY RUN ROAD SIGNALIZED INTERSECTIONS.

CONTROLLER REQUIREMENTS

INSTALL A NEMA 8 PHASE CONTROLLER IN A NEMA 6 BASE MOUNTED CABINET.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO-DETECTION CAMERAS AND MICRO PROBE LOOP DETECTION. THE ADVANCED DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH NON-INVASIVE DETECTORS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8140

MR. RAY JOHNSON, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 624-8105

MS. ANDREA ABEND, UTILITY ENGINEER
PHONE: (301) 624-8115

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR ACCORDING TO THE MOT PLANS. REFER TO MOT PLAN PHASE 3.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	SHEET ALUMINUM SIGNS 2 EA R/O-(41) (9' X 12')	SF	1.5
		SF	1.5

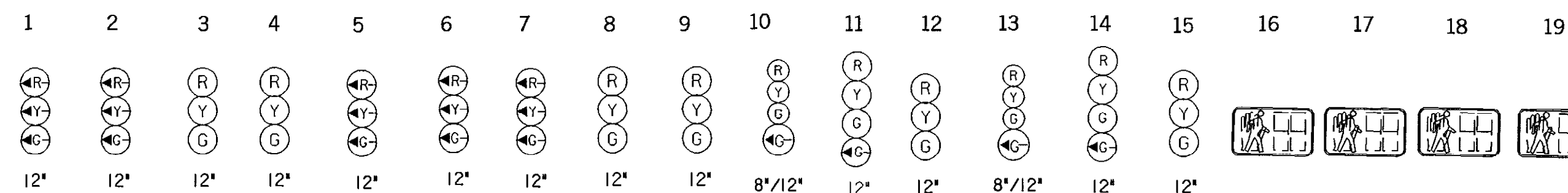
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	1.0
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	1.4
805115	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	100.0
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	45.0
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	1.0
813015	INSTALL OVERHEAD SIGN	SF	1.5
818004	10 FOOT BREAKAWAY PEDESTAL POLE	EA	2.0
832020	BARE COPPER GROUND WIRE, NO. 6 AWG	LF	275.0
837001	GROUND ROD 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	1.0
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	330.0
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	780.0
860278	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT	EA	6
865001	PUSHBUTTON AND SIGN	EA	4
800000	FURNISH AND INSTALL AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGN	EA	4

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

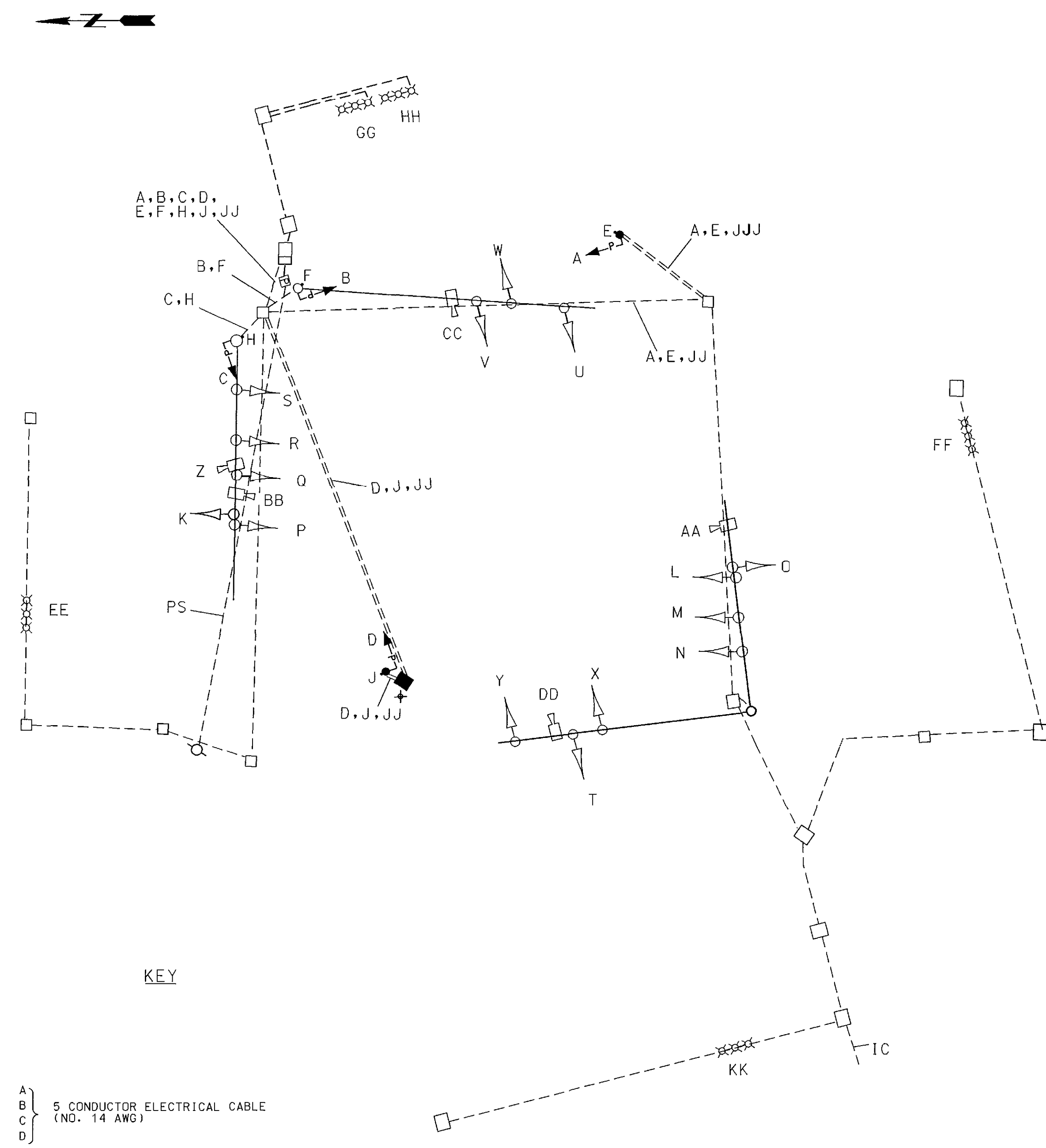
ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
PHASE 1 AND 5	+G	+G	R	R	+G	+G	+G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																			
PHASE 1 AND 6	+G	+G	G	G	+R	+R	+R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 AND 6 CHANGE	+Y	+Y	Y	Y	+R	+R	+R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 5	+R	+R	R	R	+G	+G	+G	G	G	R	R	R	R	R	R	WK	WK	DW	DW
2 AND 5 CHANGE	+R	+R	R	R	+Y	+Y	+Y	Y	Y	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
PHASE 2 AND 6	+R	+R	G	G	+R	+R	+R	G	G	R	R	R	R	R	R	WK	WK	DW	DW
2 AND 6 CHANGE	+R	+R	Y	Y	+R	+R	+R	Y	Y	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
PHASE 3	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	+G/G	+G/G	G	DW	DW	DW	DW
3 CHANGE	+R	+R	R	R	+R	+R	+R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
ALT. PHASE 3	+R	+R	R	R	+R	+R	+R	R	R	+G/G	+G/G	G	R	R	R	DW	DW	WK	WK
PED CLEAR	+R	+R	R	R	+R	+R	+R	R	R	Y	Y	Y	R	R	R	DW	DW	FL/DW	FL/DW
PHASE 4	+R	+R	R	R	+R	+R	+R	R	R	+G/G	+G/G	G	R	R	R	DW	DW	DW	DW
4 CHANGE	+R	+R	R	R	+R	+R	+R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM



KEY
 A, B, C, D } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 E, F, H, J } 2 CONDUCTOR ELECTRICAL (PUSH BUTTON) CABLE (NO. 14 AWG)
 J, J, J } 1 CONDUCTOR BARE COPPER GROUND (NO. 6 AWG)
 PS POWER SOURCE
 IC INTERCONNECT CABLE

K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z
AA
BB
CC
DD
EE
FF
GG
HH
KK

EXISTING CABLE

ADDENDUM NO. 4 10/17/06

Gannett Fleming
 4701 Mt. Hope Drive
 Seton Business Park
 Baltimore, Maryland 21215
 410-586-1460

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
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 TRAFFIC SIGNALIZATION PLAN - FINAL
 MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD
 ROADWAY IMPROVEMENTS

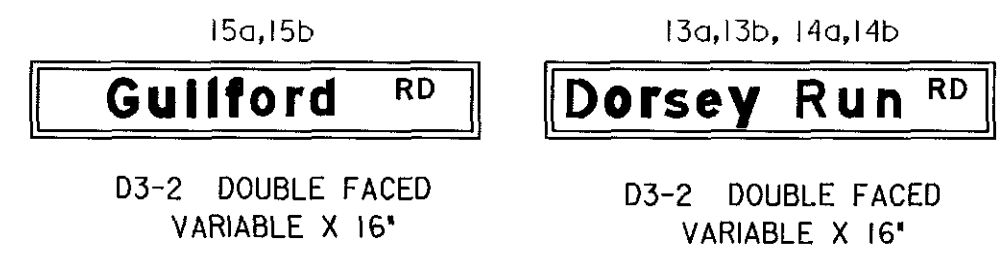
GENERAL INFORMATION

SCALE: NTS	DATE: SEPT. 2006	CONTRACT NO.:
DESIGNED BY: DKS	COUNTY: HOWARD	
DRAWN BY: DKS	LOGMILE: 13732R00.56	
CHECKED BY: ICC	T. I. M. S. NO. G469	
F. A. P. NO.:	TOD NO.:	
DRAWING NO. TS 4653A -	OF	SHEET NO. 87 OF 156

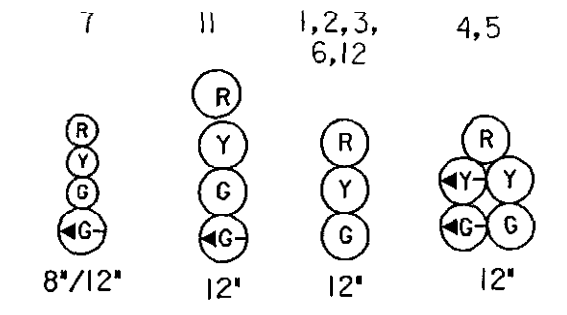
BORDER REV. DATE: JUNE 11, 2004

DORSEY RUN IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

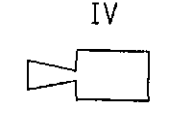
PROPOSED SIGNS



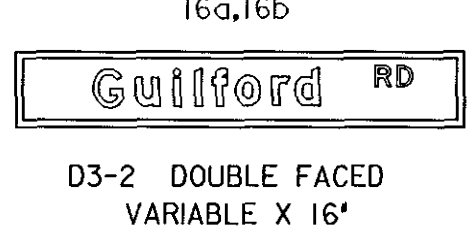
PROPOSED LED SIGNALS



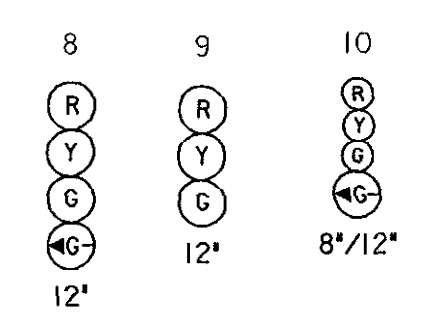
EXISTING VIDEO DETECTION



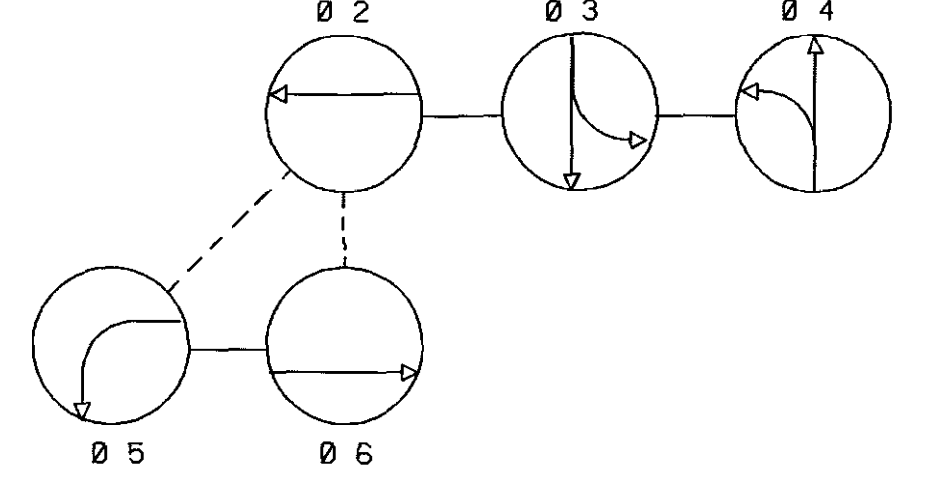
EXISTING SIGNS



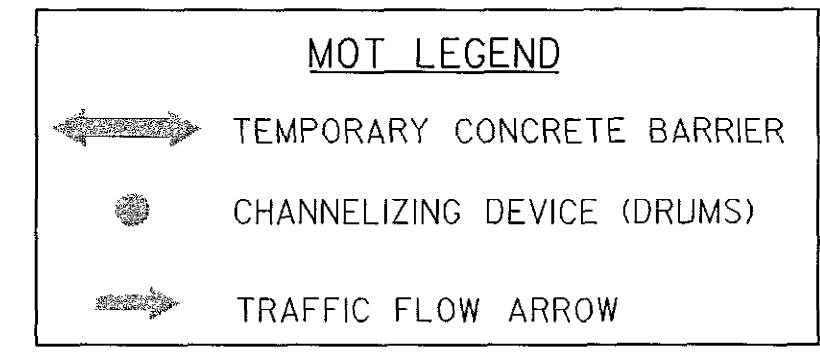
EXISTING SIGNALS TO BE REPLACED



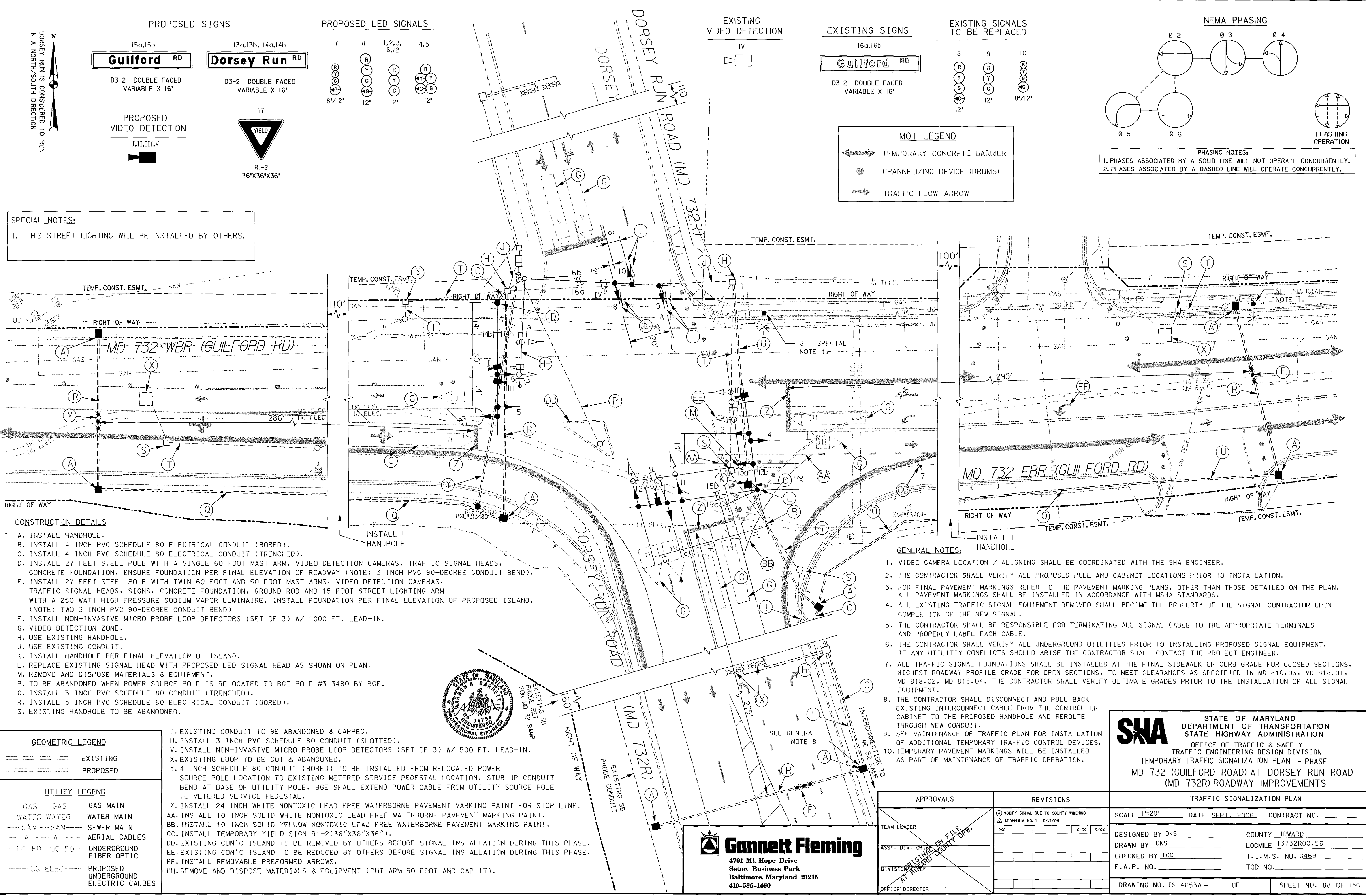
NEMA PHASING



PHASING NOTES: 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY. 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.



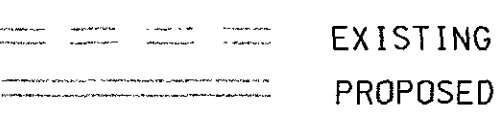
SPECIAL NOTES: 1. THIS STREET LIGHTING WILL BE INSTALLED BY OTHERS.



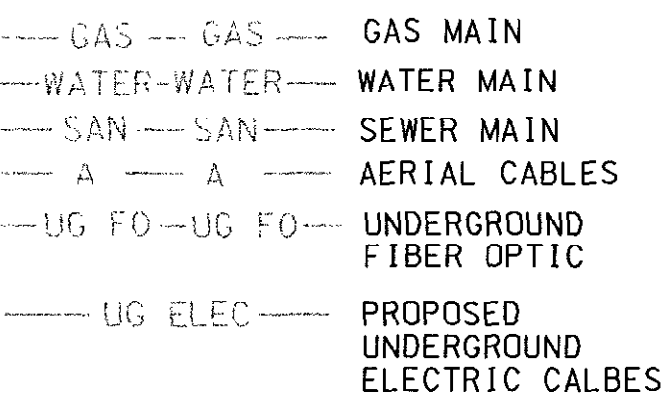
CONSTRUCTION DETAILS

- A. INSTALL HANDHOLE.
B. INSTALL 4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (BORED).
C. INSTALL 4 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (TRENCHED).
D. INSTALL 27 FEET STEEL POLE WITH A SINGLE 60 FOOT MAST ARM, VIDEO DETECTION CAMERAS, TRAFFIC SIGNAL HEADS, CONCRETE FOUNDATION. ENSURE FOUNDATION PER FINAL ELEVATION OF ROADWAY (NOTE: 3 INCH PVC 90-DEGREE CONDUIT BEND).
E. INSTALL 27 FEET STEEL POLE WITH TWIN 60 FOOT AND 50 FOOT MAST ARMS, VIDEO DETECTION CAMERAS, TRAFFIC SIGNAL HEADS, SIGNS, CONCRETE FOUNDATION, GROUND ROD AND 15 FOOT STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM VAPOR LUMINAIRE. INSTALL FOUNDATION PER FINAL ELEVATION OF PROPOSED ISLAND. (NOTE: TWO 3 INCH PVC 90-DEGREE CONDUIT BEND)
F. INSTALL NON-INVASIVE MICRO PROBE LOOP DETECTORS (SET OF 3) W/ 1000 FT. LEAD-IN.
G. VIDEO DETECTION ZONE.
H. USE EXISTING HANDHOLE.
I. USE EXISTING CONDUIT.
J. USE EXISTING CONDUIT.
K. INSTALL HANDHOLE PER FINAL ELEVATION OF ISLAND.
L. REPLACE EXISTING SIGNAL HEAD WITH PROPOSED LED SIGNAL HEAD AS SHOWN ON PLAN.
M. REMOVE AND DISPOSE MATERIALS & EQUIPMENT.
P. TO BE ABANDONED WHEN POWER SOURCE POLE IS RELOCATED TO BGE POLE #313480 BY BGE.
O. INSTALL 3 INCH PVC SCHEDULE 80 CONDUIT (TRENCHED).
R. INSTALL 3 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT (BORED).
S. EXISTING HANDHOLE TO BE ABANDONED.
T. EXISTING CONDUIT TO BE ABANDONED & CAPPED.
U. INSTALL 3 INCH PVC SCHEDULE 80 CONDUIT (SLOTTED).
V. INSTALL NON-INVASIVE MICRO PROBE LOOP DETECTORS (SET OF 3) W/ 500 FT. LEAD-IN.
X. EXISTING LOOP TO BE CUT & ABANDONED.
Y. 4 INCH SCHEDULE 80 CONDUIT (BORED) TO BE INSTALLED FROM RELOCATED POWER SOURCE POLE LOCATION TO EXISTING METERED SERVICE PEDESTAL LOCATION. STUB UP CONDUIT BEND AT BASE OF UTILITY POLE. BGE SHALL EXTEND POWER CABLE FROM UTILITY SOURCE POLE TO METERED SERVICE PEDESTAL.
Z. INSTALL 24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT FOR STOP LINE.
AA. INSTALL 10 INCH SOLID WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT.
BB. INSTALL 10 INCH SOLID YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT.
CC. INSTALL TEMPORARY YIELD SIGN R1-2(36"X36"X36").
DD. EXISTING CON'C ISLAND TO BE REMOVED BY OTHERS BEFORE SIGNAL INSTALLATION DURING THIS PHASE.
EE. EXISTING CON'C ISLAND TO BE REDUCED BY OTHERS BEFORE SIGNAL INSTALLATION DURING THIS PHASE.
FF. INSTALL REMOVABLE PREFORMED ARROWS.
HH. REMOVE AND DISPOSE MATERIALS & EQUIPMENT (CUT ARM 50 FOOT AND CAP IT).

GEOMETRIC LEGEND

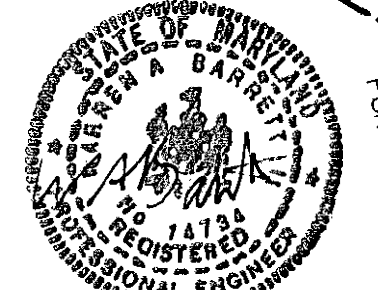


UTILITY LEGEND



GENERAL NOTES:

- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
7. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
8. THE CONTRACTOR SHALL DISCONNECT AND PULL BACK EXISTING INTERCONNECT CABLE FROM THE CONTROLLER CABINET TO THE PROPOSED HANDHOLE AND REROUTE THROUGH NEW CONDUIT.
9. SEE MAINTENANCE OF TRAFFIC PLAN FOR INSTALLATION OF ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES.
10. TEMPORARY PAVEMENT MARKINGS WILL BE INSTALLED AS PART OF MAINTENANCE OF TRAFFIC OPERATION.



Gannett Fleming logo and address: 4701 Mt. Hope Drive, Seton Business Park, Baltimore, Maryland 21215, 410-585-1460

Table with columns for APPROVALS and REVISIONS. Includes fields for TEAM LEADER, ASST. DIV. CHIEF, DIVISION ENGINEER, and OFFICE DIRECTOR.

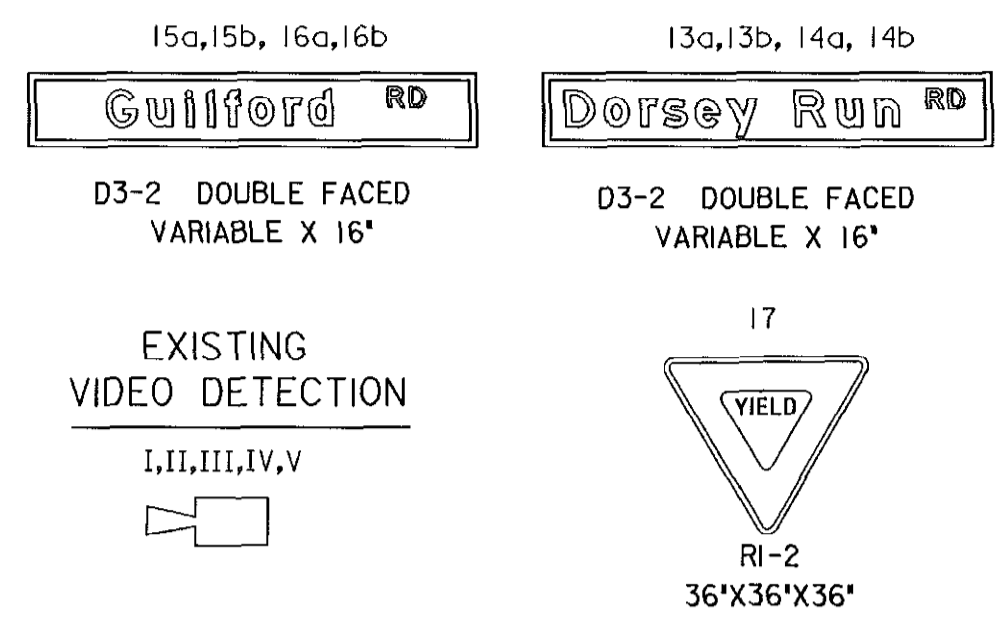
SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE I MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD (MD 732R) ROADWAY IMPROVEMENTS

Table with columns for SCALE, DATE, CONTRACT NO., DESIGNED BY, COUNTY, DRAWN BY, LOGMILE, CHECKED BY, T.I.M.S. NO., F.A.P. NO., TOD NO., DRAWING NO., and SHEET NO.

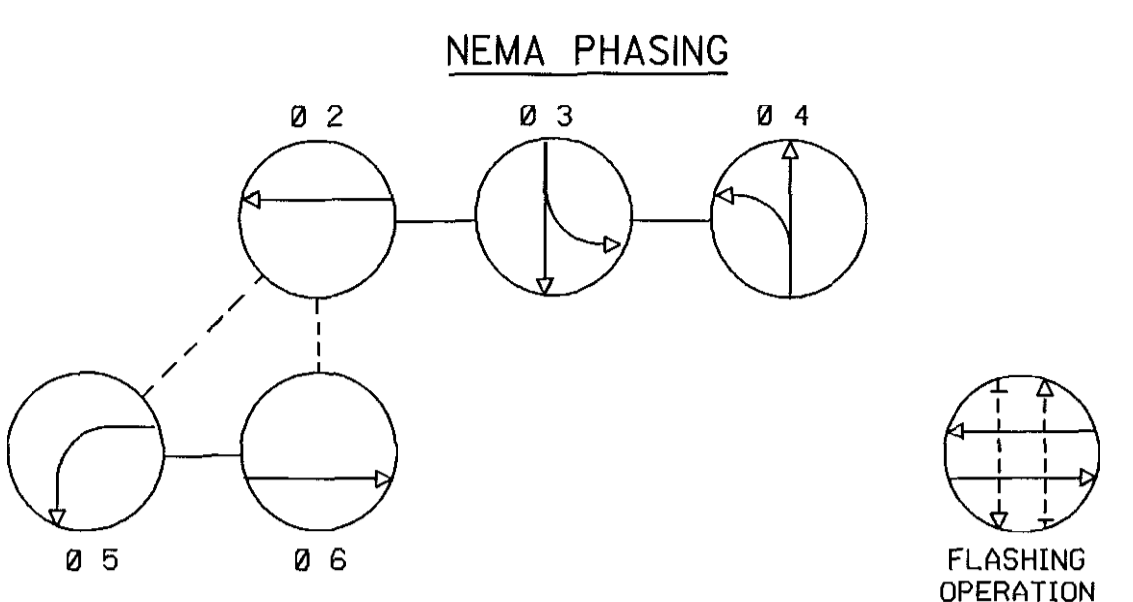
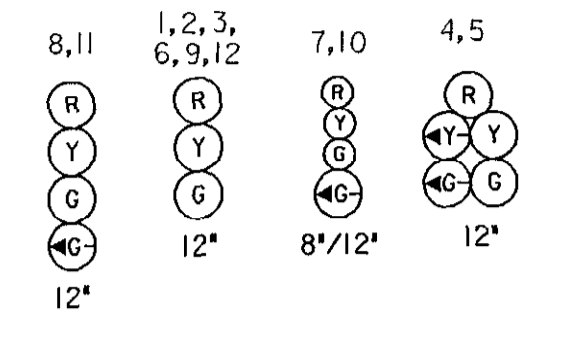
BORDER REV. DATE: June 1, 2004

DORSEY RUN IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

EXISTING SIGNS

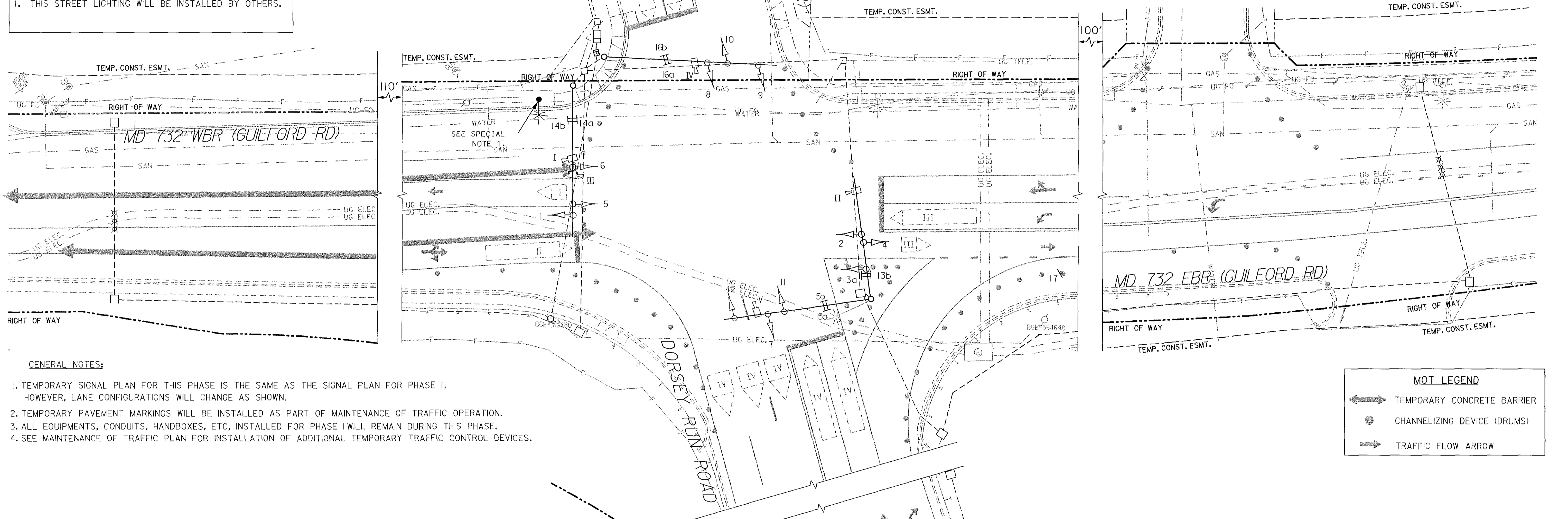


EXISTING SIGNALS

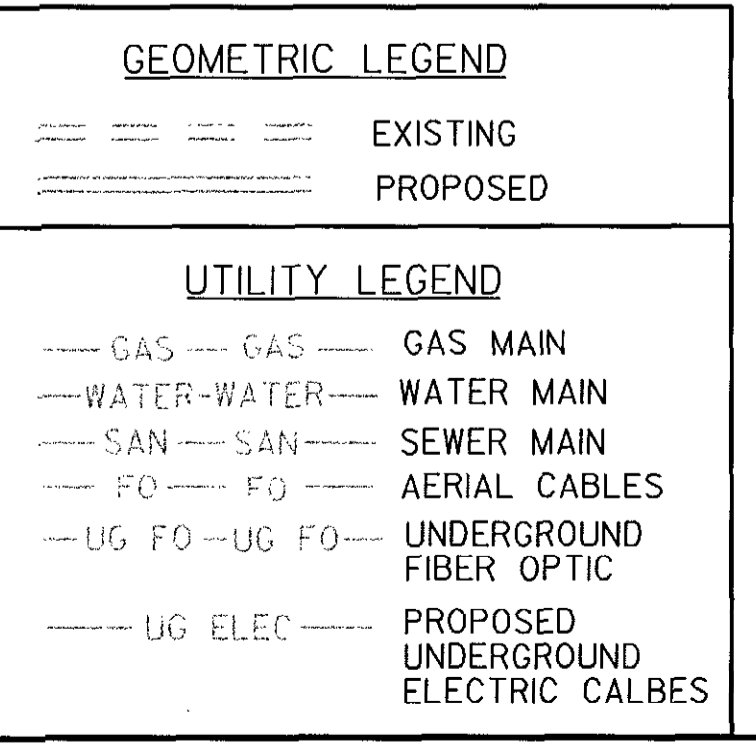
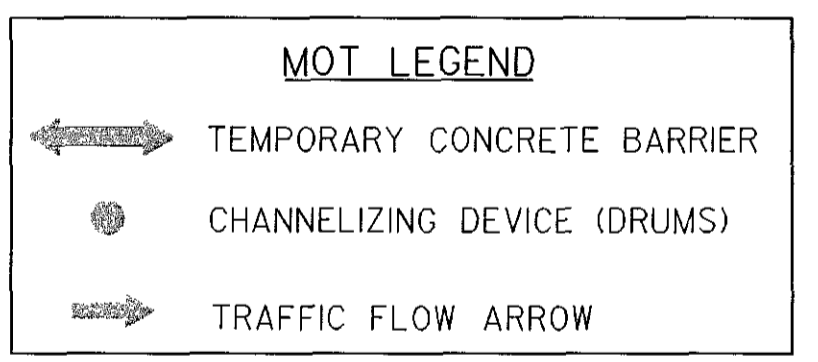


PHASING NOTES:
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

SPECIAL NOTES:
 1. THIS STREET LIGHTING WILL BE INSTALLED BY OTHERS.



- GENERAL NOTES:**
1. TEMPORARY SIGNAL PLAN FOR THIS PHASE IS THE SAME AS THE SIGNAL PLAN FOR PHASE I. HOWEVER, LANE CONFIGURATIONS WILL CHANGE AS SHOWN.
 2. TEMPORARY PAVEMENT MARKINGS WILL BE INSTALLED AS PART OF MAINTENANCE OF TRAFFIC OPERATION.
 3. ALL EQUIPMENTS, CONDUITS, HANDBOXES, ETC, INSTALLED FOR PHASE I WILL REMAIN DURING THIS PHASE.
 4. SEE MAINTENANCE OF TRAFFIC PLAN FOR INSTALLATION OF ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES.



Gannett Fleming
 4701 Mt. Hope Drive
 Seton Business Park
 Baltimore, Maryland 21215
 410-588-1460

APPROVALS	REVISIONS
TEAM LEADER	① MODIFY SIGNAL DUE TO COUNTY WEENING
ASST. DIV. CHIEF	② ADDENDUM NO. 4 10/17/06
DIVISION MANAGER	DKS 0469 9/06
OFFICE DIRECTOR	

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE IA
 MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD
 (MD 732R) ROADWAY IMPROVEMENTS

TRAFFIC SIGNALIZATION PLAN

SCALE 1"=20' DATE SEPT. 2006 CONTRACT NO. _____

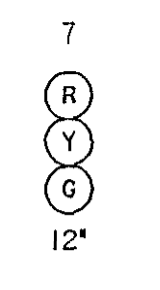
DESIGNED BY DKS COUNTY HOWARD
 DRAWN BY DKS LOGMILE 13732R00.56
 CHECKED BY ICC T.I.M.S. NO. G469
 F.A.P. NO. TOD NO. _____

DRAWING NO. TS 4653A - OF SHEET NO. 90 OF 156

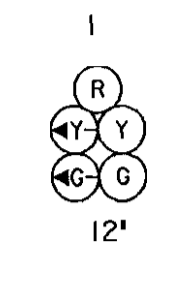
BORDER REV. DATE: June 1, 2004

DORSEY RUN IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

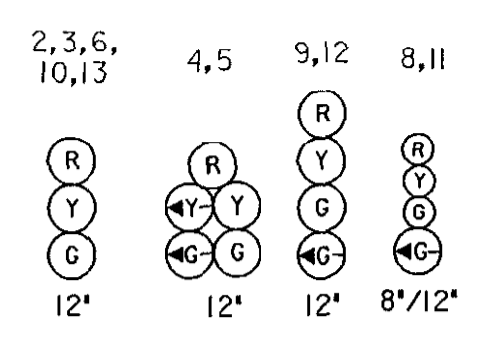
PROPOSED LED SIGNALS



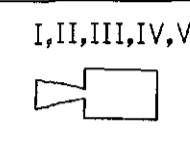
EXISTING SIGNALS TO BE RELOCATED



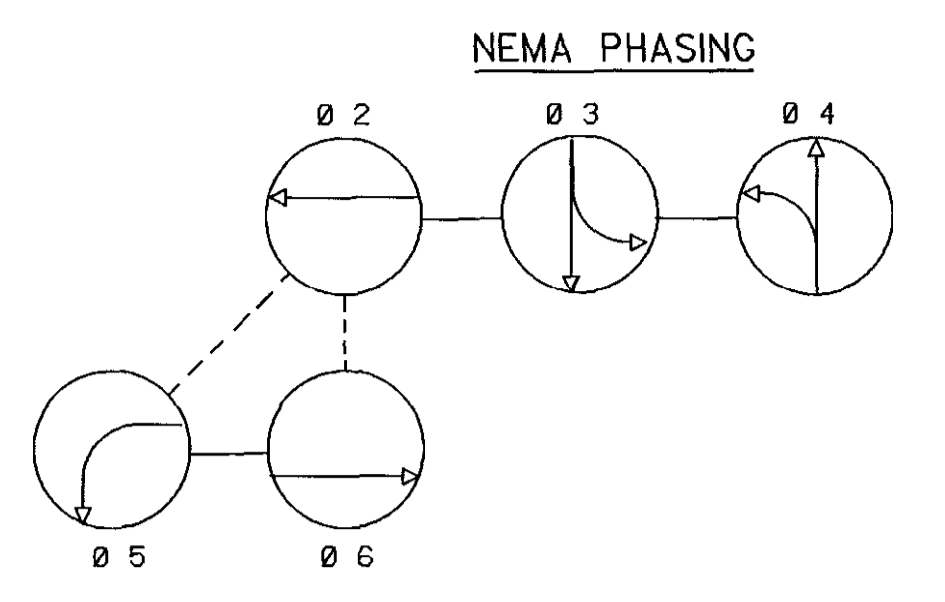
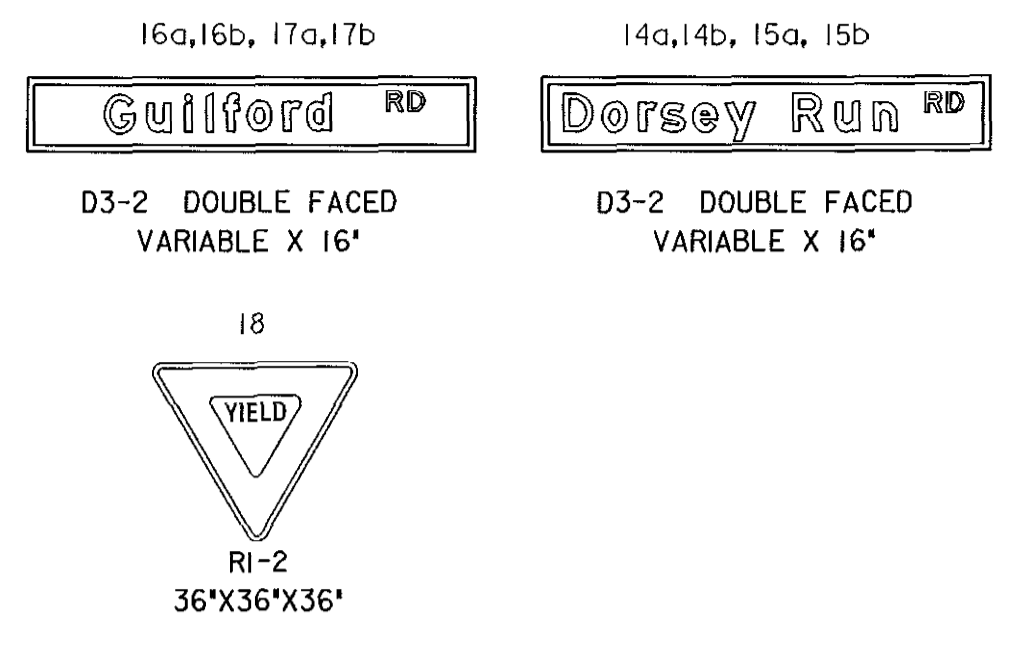
EXISTING SIGNALS



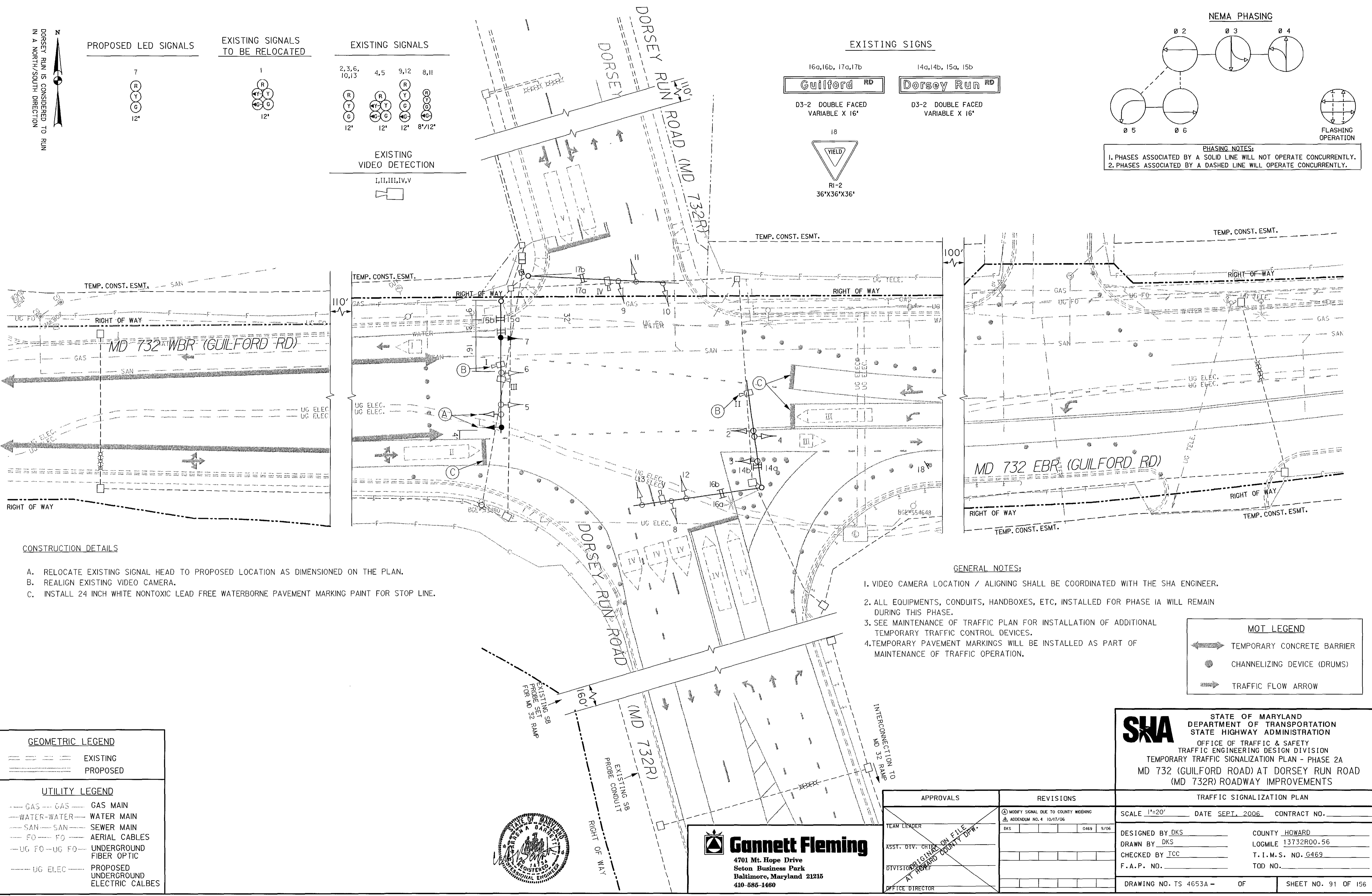
EXISTING VIDEO DETECTION



EXISTING SIGNS



PHASING NOTES:
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

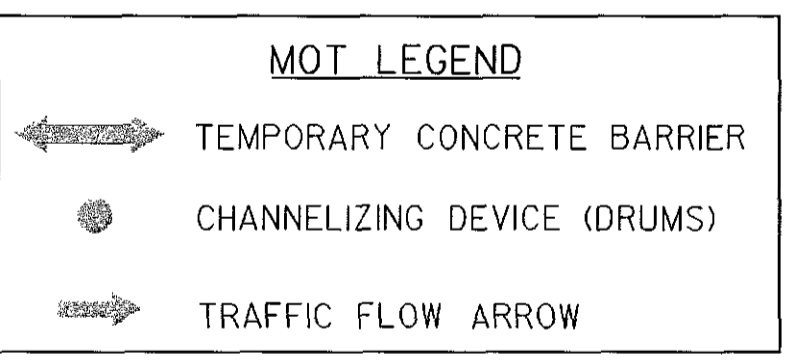


CONSTRUCTION DETAILS

- A. RELOCATE EXISTING SIGNAL HEAD TO PROPOSED LOCATION AS DIMENSIONED ON THE PLAN.
- B. REALIGN EXISTING VIDEO CAMERA.
- C. INSTALL 24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT FOR STOP LINE.

GENERAL NOTES:

- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 2. ALL EQUIPMENTS, CONDUITS, HANDBOXES, ETC. INSTALLED FOR PHASE IA WILL REMAIN DURING THIS PHASE.
- 3. SEE MAINTENANCE OF TRAFFIC PLAN FOR INSTALLATION OF ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES.
- 4. TEMPORARY PAVEMENT MARKINGS WILL BE INSTALLED AS PART OF MAINTENANCE OF TRAFFIC OPERATION.



GEOMETRIC LEGEND	
	EXISTING
	PROPOSED

UTILITY LEGEND	
	GAS MAIN
	WATER MAIN
	SEWER MAIN
	AERIAL CABLES
	UNDERGROUND FIBER OPTIC
	PROPOSED UNDERGROUND ELECTRIC CALBES



Gannett Fleming
 4701 Mt. Hope Drive
 Soton Business Park
 Baltimore, Maryland 21215
 410-686-1460

APPROVALS	REVISIONS
TEAM LEADER	① MODIFY SIGNAL DUE TO COUNTY WIDENING
ASST. DIV. CHIEF ON FILE	② ADDENDUM NO. 4 10/17/06
DIVISION ENGINEER AT HOWARD COUNTY DPM	DKS [] C469 9/06
OFFICE DIRECTOR	

TRAFFIC SIGNALIZATION PLAN	
SCALE 1"=20'	DATE SEPT. 2006 CONTRACT NO. _____
DESIGNED BY DKS	COUNTY HOWARD
DRAWN BY DKS	LOGMILE 13732R00.56
CHECKED BY ICC	T. I. M. S. NO. G469
F.A.P. NO. _____	TOD NO. _____

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE 2A
 MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD
 (MD 732R) ROADWAY IMPROVEMENTS

DRAWING NO. TS 4653A -	OF	SHEET NO. 91 OF 156
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PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD INTERSECTION. PARTIAL RECONSTRUCTION OF THE TRAFFIC SIGNAL IS REQUIRED. MD 732 (GUILFORD ROAD) IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION, DORSEY RUN ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE AS IN EXISTING CONDITIONS. THIS SIGNAL IS INTERCONNECTED TO THE EASTBOUND MD 32/ DORSEY RUN ROAD AND THE WESTBOUND MD 32/ DORSEY RUN ROAD SIGNALIZED INTERSECTIONS.

CONTROLLER REQUIREMENTS

INSTALL A NEMA 8 PHASE CONTROLLER IN A NEMA 6 BASE MOUNTED CABINET.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO-DETECTION CAMERAS AND MICRO PROBE LOOP DETECTION. THE ADVANCED DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH NON-INVASIVE DETECTORS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8140

MR. RAY JOHNSON, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 624-8105

MS. ANDREA ABEND, UTILITY ENGINEER
PHONE: (301) 624-8115

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR ACCORDING TO THE MOT PLANS. REFER TO MOT PLAN PHASE 2A.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
114045	24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	60.0
860284	12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	3.0
800000	REALIGN EXISTING VIDEO CAMERA	EA	2.0
860265	RELOCATE EXISTING SIGNAL HEAD	EA	1.0
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	100.0

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

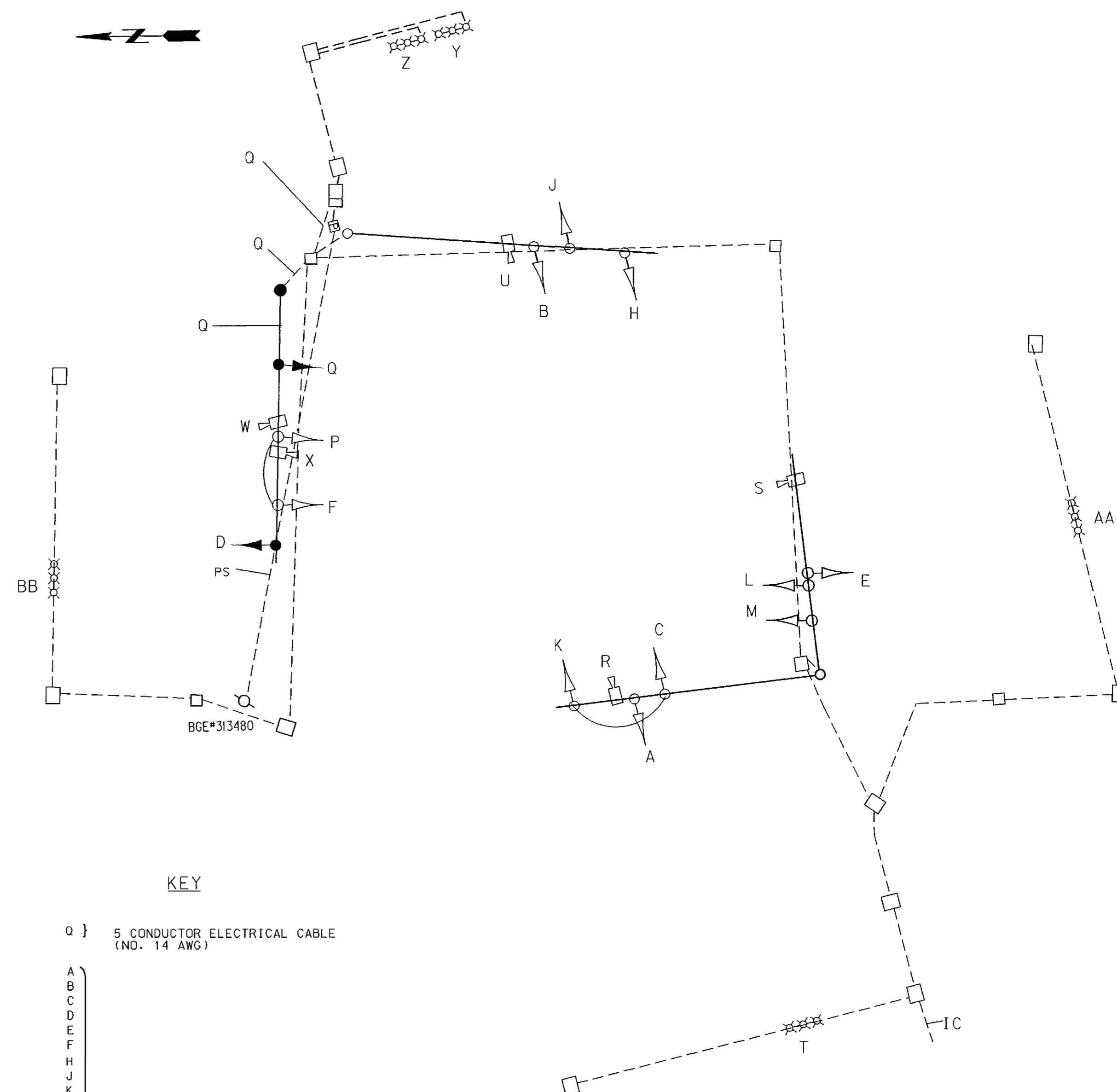
NONE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)
	12'	12'	12'	12'	12'	12'	12'	8'/12'	12'	12'	8'/12'	12'	12'

	1	2	3	4	5	6	7	8	9	10	11	12	13	
2 AND 5 OR 2 AND 6														
PHASE 2 AND 5	R	R	R	+G/G	+G/G	G	G	R	R	R	R	R	R	←
2 AND 5 CHANGE	R	R	R	+Y	+Y	Y	Y	R	R	R	R	R	R	↙
PHASE 2 AND 6	G	G	G	G	G	G	G	R	R	R	R	R	R	←
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	→
PHASE 3	R	R	R	R	R	R	R	R	R	R	+G/G	+G/G	G	↘
3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	↓
PHASE 4	R	R	R	R	R	R	R	+G/G	+G/G	G	R	R	R	↗
4 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	↑
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	⚡

WIRING DIAGRAM



KEY

- Q } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- EXISTING CABLE
- PS POWER SOURCE
- IC INTERCONNECT CABLE

SNA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE 2A
MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD
ROADWAY IMPROVEMENTS

GENERAL INFORMATION		
SCALE	NTS	DATE SEPT. 2006 CONTRACT NO.
DESIGNED BY	DKS	COUNTY HOWARD
DRAWN BY	DKS	LOGMILE 13732R00.56
CHECKED BY	TCC	T.I.M.S. NO. 0469
F.A.P. NO.		TOD NO.
DRAWING NO.	TS 4653A - OF	SHEET NO. 91A OF 156



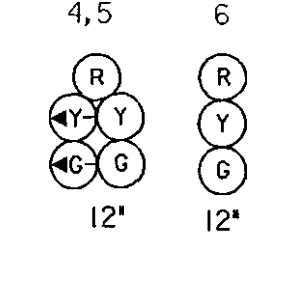
Gannett Fleming
4701 Mt. Hope Drive
Seton Business Park
Baltimore, Maryland 21215
410-585-1460

ADDENDUM NO. 4 10/17/06

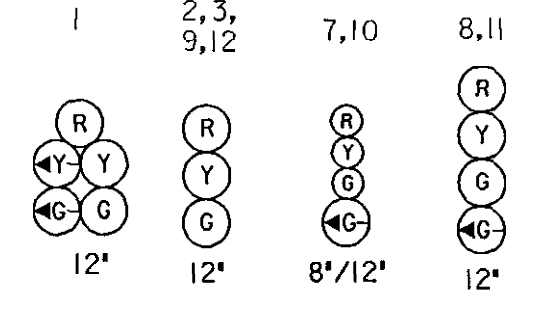
BORDER REV. DATE: June 1, 2004

DORSEY RUN IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

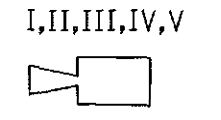
EXISTING SIGNALS TO BE RELOCATED



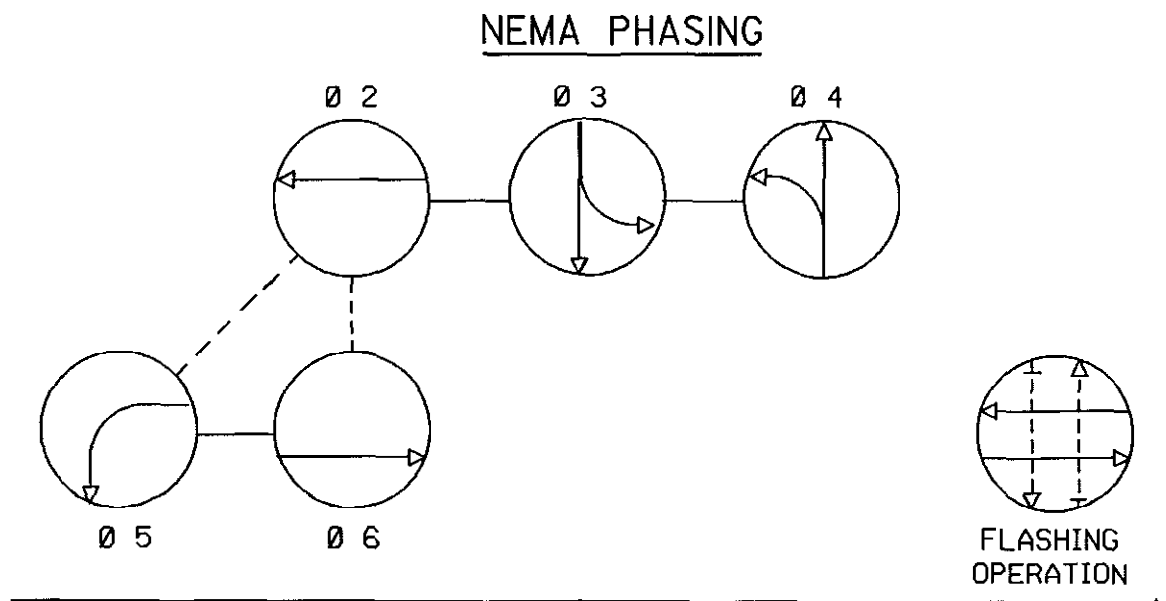
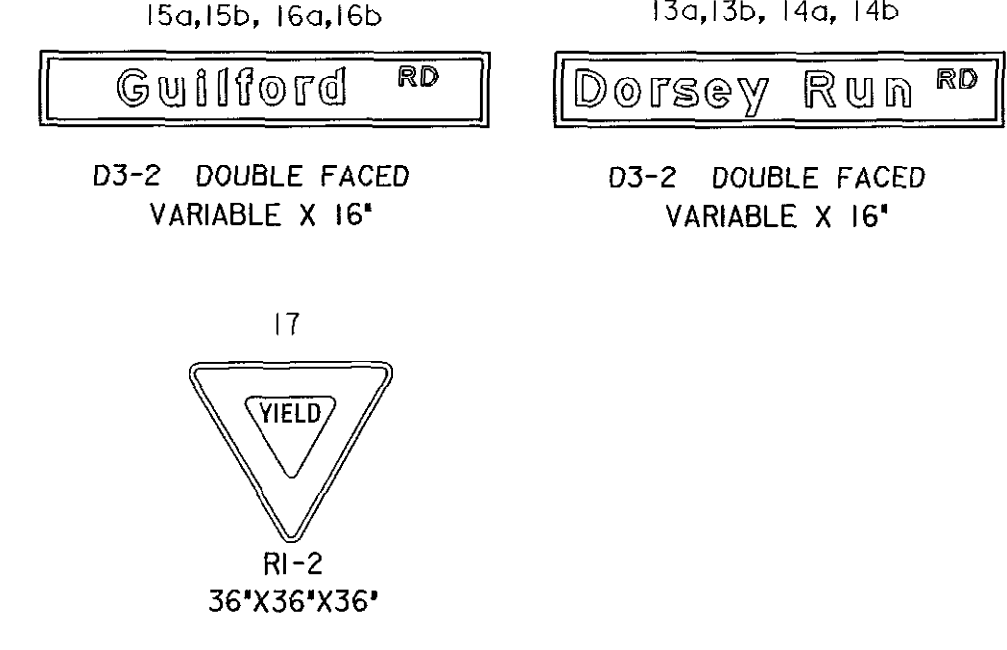
EXISTING SIGNALS



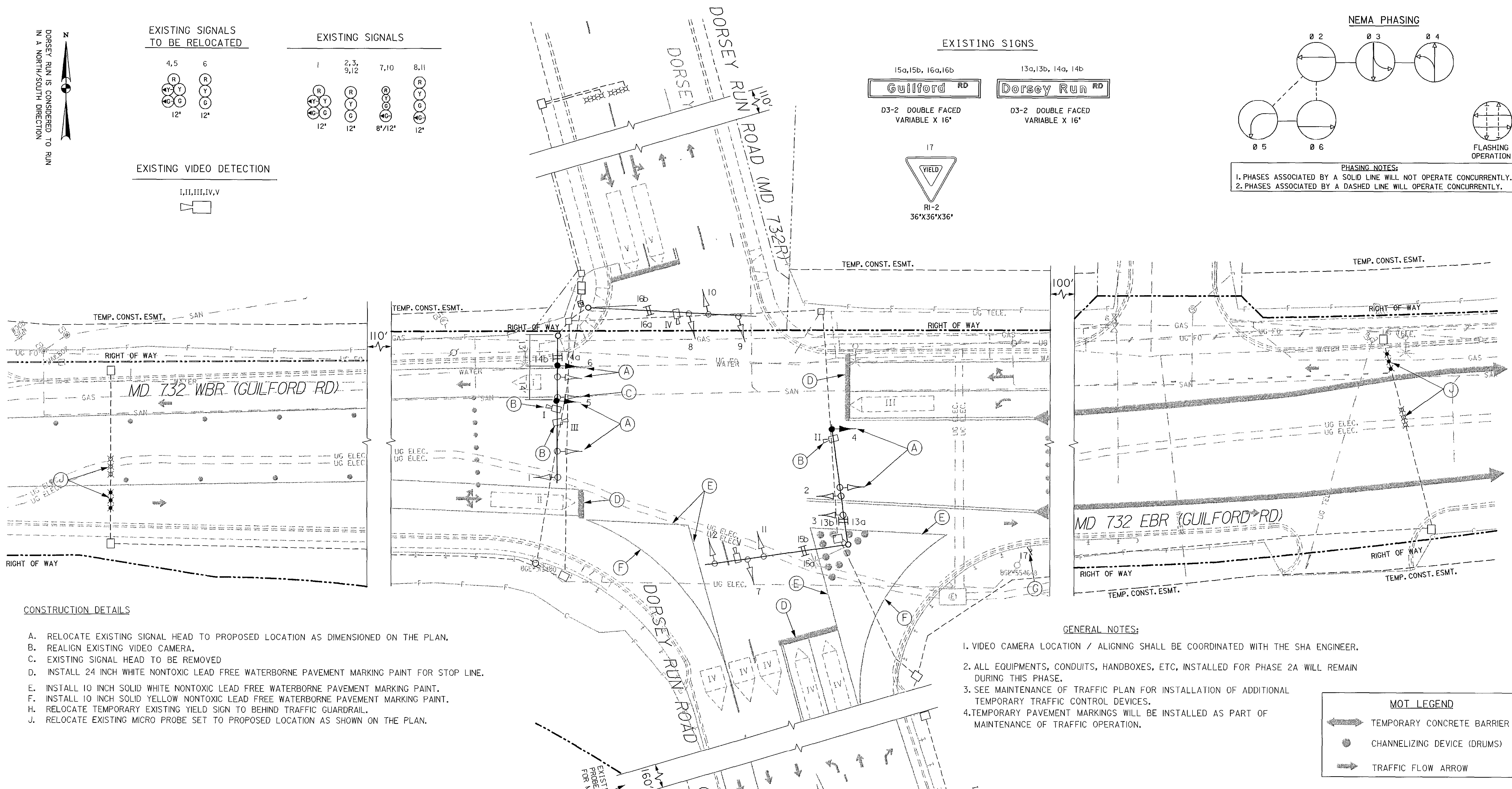
EXISTING VIDEO DETECTION



EXISTING SIGNS



PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

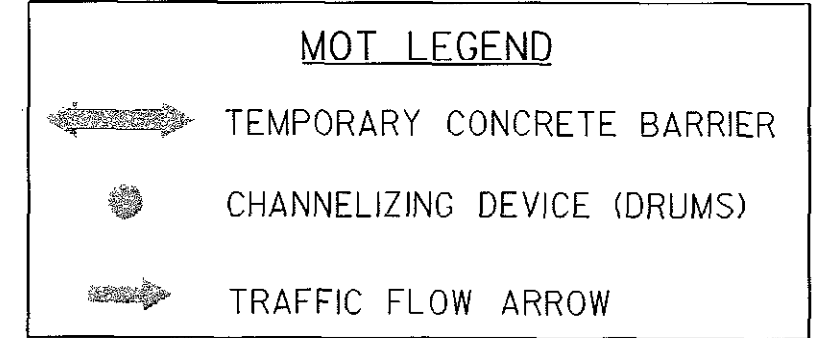


CONSTRUCTION DETAILS

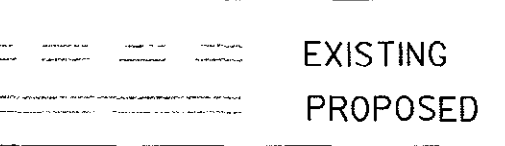
- A. RELOCATE EXISTING SIGNAL HEAD TO PROPOSED LOCATION AS DIMENSIONED ON THE PLAN.
- B. REALIGN EXISTING VIDEO CAMERA.
- C. EXISTING SIGNAL HEAD TO BE REMOVED
- D. INSTALL 24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT FOR STOP LINE.
- E. INSTALL 10 INCH SOLID WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT.
- F. INSTALL 10 INCH SOLID YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT.
- H. RELOCATE TEMPORARY EXISTING YIELD SIGN TO BEHIND TRAFFIC GUARDRAIL.
- J. RELOCATE EXISTING MICRO PROBE SET TO PROPOSED LOCATION AS SHOWN ON THE PLAN.

GENERAL NOTES:

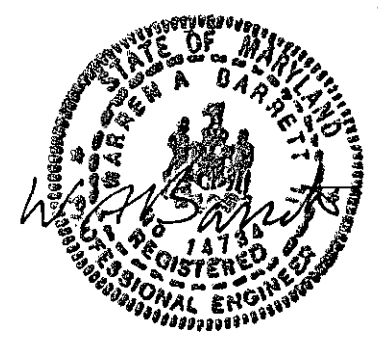
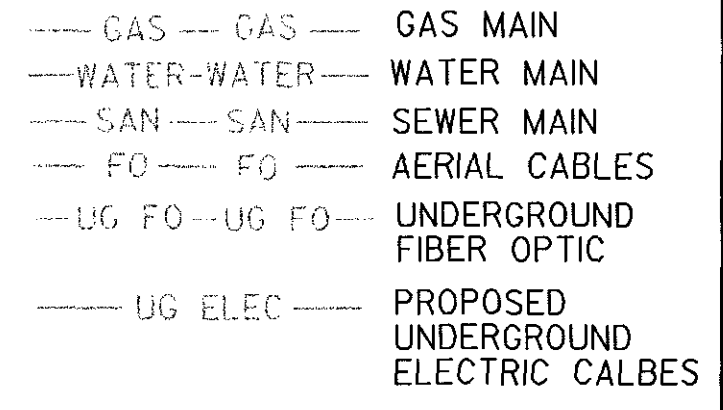
- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 2. ALL EQUIPMENTS, CONDUITS, HANDBOXES, ETC, INSTALLED FOR PHASE 2A WILL REMAIN DURING THIS PHASE.
- 3. SEE MAINTENANCE OF TRAFFIC PLAN FOR INSTALLATION OF ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES.
- 4. TEMPORARY PAVEMENT MARKINGS WILL BE INSTALLED AS PART OF MAINTENANCE OF TRAFFIC OPERATION.



GEOMETRIC LEGEND



UTILITY LEGEND



Gannett Fleming
4701 Mt. Hope Drive
Seton Business Park
Baltimore, Maryland 21215
410-585-1460

APPROVALS	REVISIONS
TEAM LEADER	① MODIFY SIGNAL DUE TO COUNTY WIDENING
ASST. DIV. CHIEF	② ADDENDUM NO. 4 10/17/06
DIVISION ENGINEER ON FILE AT HOWARD COUNTY DEPT.	DKS
OFFICE DIRECTOR	G469 9/06

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE 2B
MD 732 (GULFORD ROAD) AT DORSEY RUN ROAD
(MD 732R) ROADWAY IMPROVEMENTS

TRAFFIC SIGNALIZATION PLAN

SCALE 1"=20' DATE SEPT. 2006 CONTRACT NO. _____

DESIGNED BY DKS COUNTY HOWARD
DRAWN BY DKS LOGMILE 13732R00.56
CHECKED BY ICC T. I. M. S. NO. G469
F. A. P. NO. TOD NO. _____

DRAWING NO. TS 4653A - OF SHEET NO. 92 OF 156

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD INTERSECTION. PARTIAL RECONSTRUCTION OF THE TRAFFIC SIGNAL IS REQUIRED. MD 732 (GUILFORD ROAD) IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION, DORSEY RUN ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE AS IN EXISTING CONDITIONS. THIS SIGNAL IS INTERCONNECTED TO THE EASTBOUND MD 32/ DORSEY RUN ROAD AND THE WESTBOUND MD 32/ DORSEY RUN ROAD SIGNALIZED INTERSECTIONS.

CONTROLLER REQUIREMENTS

INSTALL A NEMA 8 PHASE CONTROLLER IN A NEMA 6 BASE MOUNTED CABINET.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO-DETECTION CAMERAS AND MICRO PROBE LOOP DETECTION. THE ADVANCED DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH NON-INVASIVE DETECTORS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

PROJECT CONTACTS:

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PHONE: (301) 624-8140

MR. RAY JOHNSON, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
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MS. ANDREA ABEND, UTILITY ENGINEER
PHONE: (301) 624-8115

MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 781-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR ACCORDING TO THE MOT PLANS. REFER TO MOT PLAN PHASE 2B.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

NONE

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
114015	10 INCH YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	255
114020	10 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	180
114045	24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	63.0
800000	REALIGN EXISTING VIDEO CAMERA	EA	3.0
860265	RELOCATE EXISTING SIGNAL HEAD	EA	3.0

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

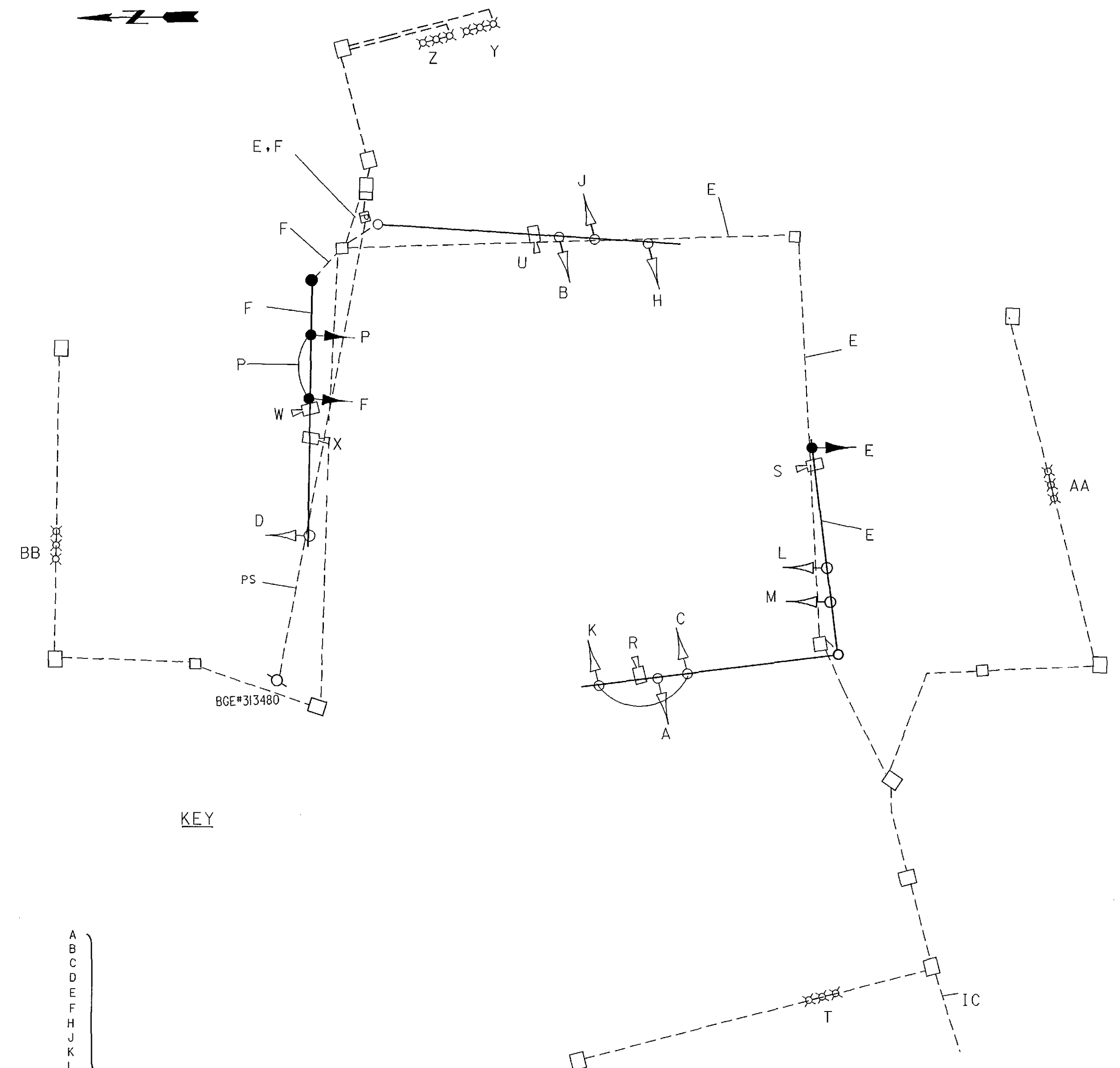
ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)
	12'	12'	12'	12'	12'	12'	8'/12'	12'	12'	8'/12'	12'	12'

	1	2	3	4	5	6	7	8	9	10	11	12	
2 AND 5 OR 2 AND 6													
PHASE 2 AND 5	R	R	R	+G/G	+G/G	G	R	R	R	R	R	R	←
2 AND 5 CHANGE	R	R	R	+Y	+Y	Y	R	R	R	R	R	R	↙
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	→
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	→
PHASE 3	R	R	R	R	R	R	R	R	R	+G/G	+G/G	G	↘
3 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	↓
PHASE 4	R	R	R	R	R	R	+G/G	+G/G	G	R	R	R	↗
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	↗
FLASHING OPERATION	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / R	FL / R	FL / R	FL / R	FL / R	FL / R	⚡

WIRING DIAGRAM



KEY

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K
- L
- M
- N
- O
- P
- Q
- R
- S
- T
- U
- V
- W
- X
- Y
- Z
- AA
- BB

EXISTING CABLE

PS POWER SOURCE
IC INTERCONNECT CABLE

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE 2B
MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD
ROADWAY IMPROVEMENTS

GENERAL INFORMATION
SCALE NTS DATE SEPT. 2006 CONTRACT NO.

DESIGNED BY DKS COUNTY HOWARD
DRAWN BY DKS LOGMILE 13732R00.56
CHECKED BY ICC T.I.M.S. NO. 6469
F.A.P. NO. TOD NO.

DRAWING NO. TS 4653A - OF SHEET NO. 92A OF 156

Gannett Fleming
4701 Mt. Hope Drive
Seton Business Park
Baltimore, Maryland 21215
410-585-1460

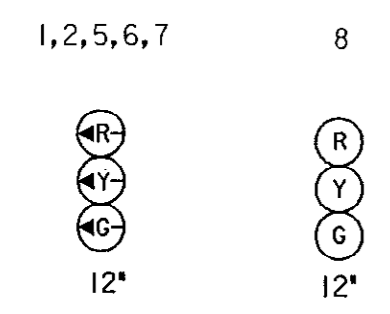


ADDENDUM NO. 4 10/17/06

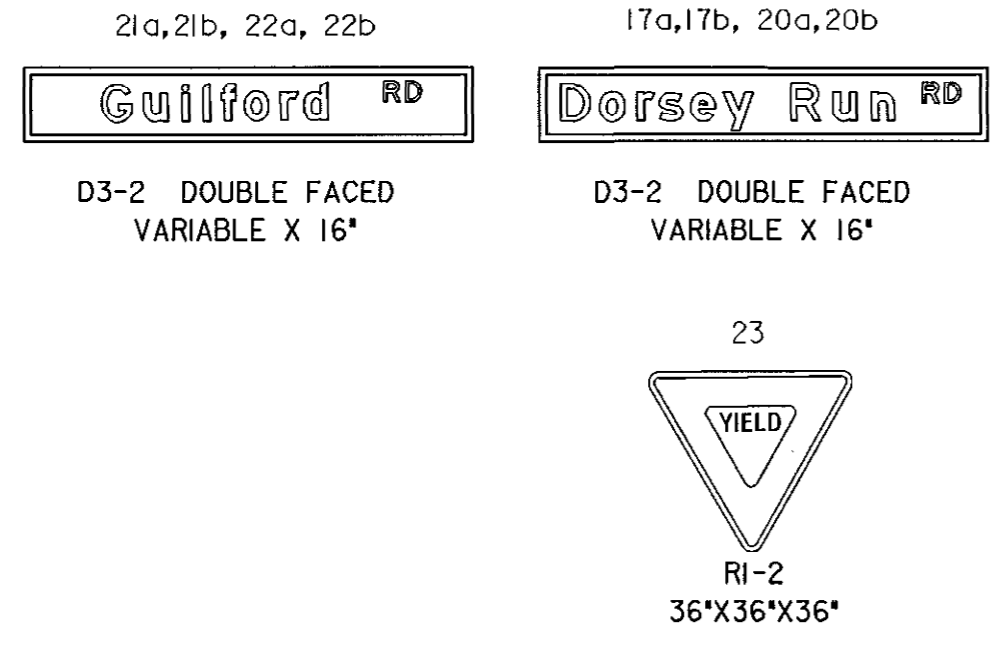
BORDER REV. DATE: June 1, 2004

DORSEY RUN IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

PROPOSED LED SIGNALS



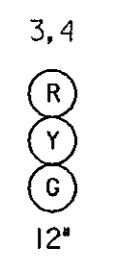
EXISTING SIGNS



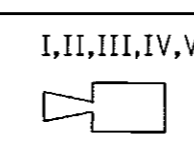
PROPOSED SIGNS



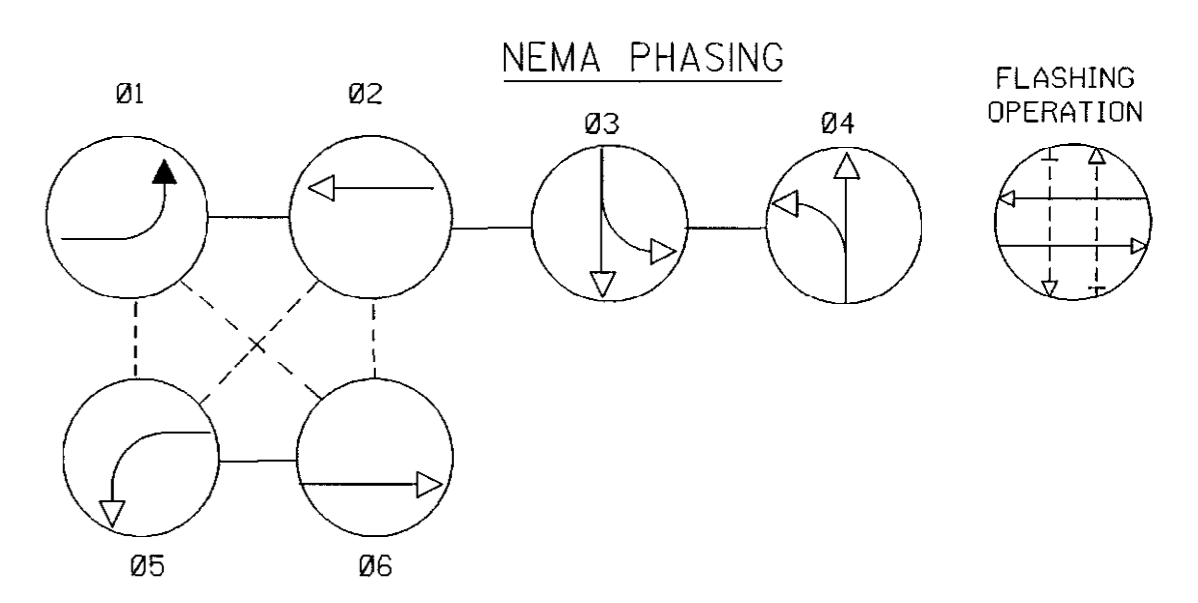
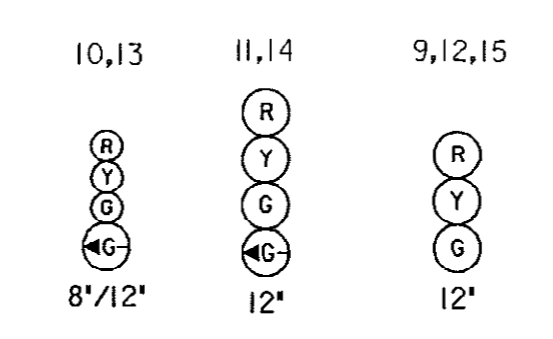
EXISTING SIGNALS TO BE RELOCATED



EXISTING VIDEO DETECTION

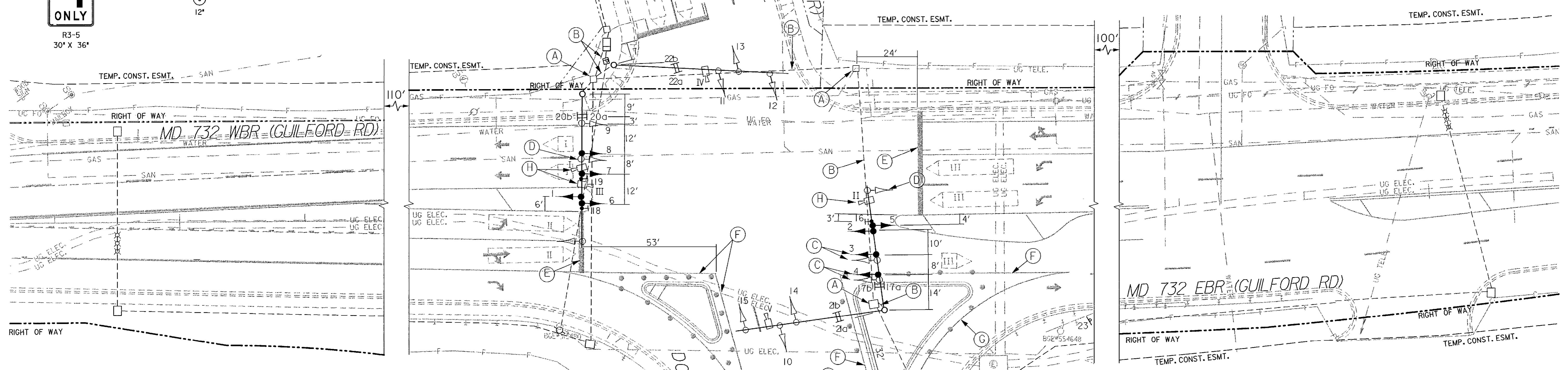


EXISTING SIGNALS



SPECIAL NOTE: FINAL SIGNAL PLAN IS THE SAME AS THIS SIGNAL PLAN FOR PHASE 3.

PHASING NOTES: 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY. 2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.



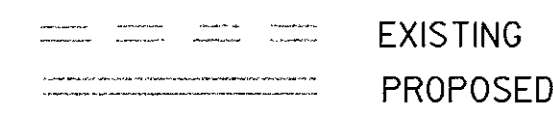
CONSTRUCTION DETAILS

- A. USE EXISTING HANDHOLE. B. USE EXISTING CONDUIT. C. RELOCATE EXISTING SIGNAL HEAD TO PROPOSED LOCATION AS DIMENSIONED ON THE PLAN. D. REMOVE AND DISPOSE MATERIALS & EQUIPMENT. E. INSTALL 24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT FOR STOP LINE. F. 10 INCH YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT. G. 10 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT. H. REALIGN EXISTING VIDEO CAMERA.

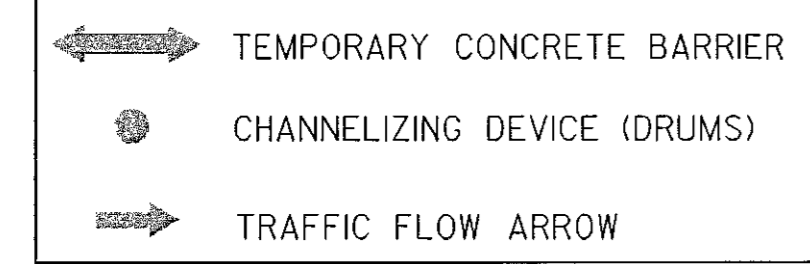
GENERAL NOTES:

- 1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER. 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION. 3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS. 4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE. 6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER. 7. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT. 8. THE CONTRACTOR SHALL DISCONNECT AND PULL BACK EXISTING INTERCONNECT CABLE FROM THE CONTROLLER CABINET TO THE PROPOSED HANDHOLE AND REROUTE THROUGH NEW CONDUIT. 9. SEE MAINTENANCE OF TRAFFIC PLAN FOR INSTALLATION OF ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES. 10. TEMPORARY PAVEMENT MARKINGS WILL BE INSTALLED AS PART OF MAINTENANCE OF TRAFFIC OPERATION.

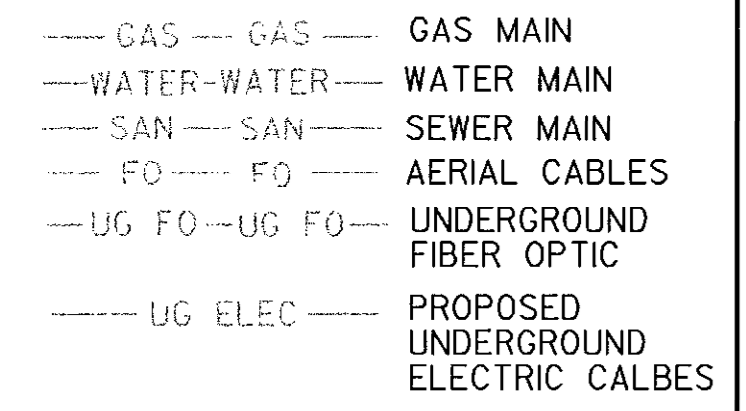
GEOMETRIC LEGEND



MOT LEGEND



UTILITY LEGEND



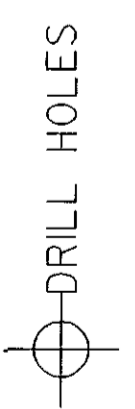
Gannett Fleming 4701 Mt. Hope Drive Seton Business Park Baltimore, Maryland 21215 410-585-1460

Table with columns for APPROVALS and REVISIONS. Includes fields for TEAM LEADER, ASSY. DIV. CHIEF, DIVISION MANAGER, OFFICE DIRECTOR, and revision details.

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE 3 MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD (MD 732R) ROADWAY IMPROVEMENTS

Table with columns for SCALE, DATE, CONTRACT NO., DESIGNED BY, DRAWN BY, CHECKED BY, F.A.P. NO., COUNTY, LOGMILE, T.I.M.S. NO., TOD NO., DRAWING NO., SHEET NO.

BORDER REV. DATE: June 1, 2004



PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD INTERSECTION. PARTIAL RECONSTRUCTION OF THE TRAFFIC SIGNAL IS REQUIRED. MD 732 (GUILFORD ROAD) IS ASSUMED TO RUN IN AN EAST - WEST DIRECTION, DORSEY RUN ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE AS IN EXISTING CONDITIONS. THIS SIGNAL IS INTERCONNECTED TO THE EASTBOUND MD 32/ DORSEY RUN ROAD AND THE WESTBOUND MD 32/ DORSEY RUN ROAD SIGNALIZED INTERSECTIONS.

CONTROLLER REQUIREMENTS

INSTALL A NEMA 8 PHASE CONTROLLER IN A NEMA 6 BASE MOUNTED CABINET.

THE PRESENCE AND SAMPLING DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH VIDEO-DETECTION CAMERAS AND MICRO PROBE LOOP DETECTION. THE ADVANCED DETECTION REGIONS SHALL BE MONITORED/ACTUATED WITH NON-INVASIVE DETECTORS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8140

MR. RAY JOHNSON, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR ACCORDING TO THE MOT PLANS. REFER TO MOT PLAN PHASE 3.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	SHEET ALUMINUM SIGNS 3 EA R3-5 (30" X 36")	SF	22.5
		SF	22.5

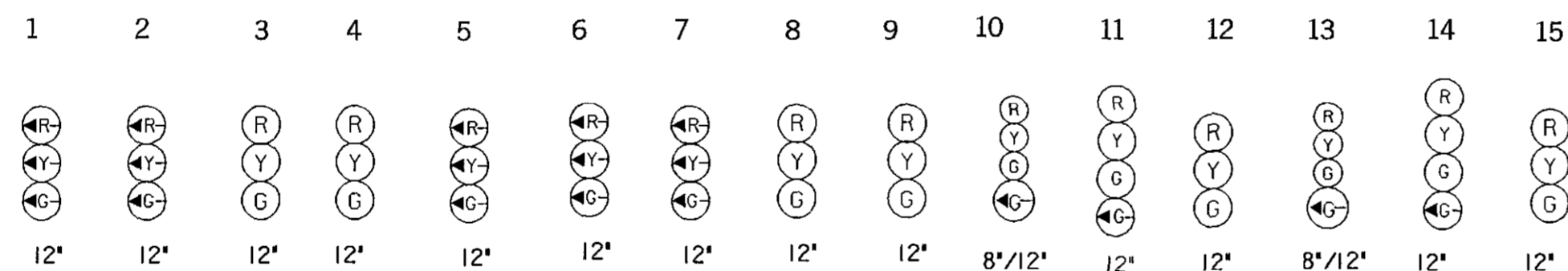
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
114035	12 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	120.0
114045	24 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKING PAINT	LF	120.0
813015	INSTALL OVERHEAD SIGN	SF	22.5
832020	BARE COPPER GROUND WIRE, NO. 6 AWG	LF	30.0
860265	RELOCATE EXISTING SIGNAL HEAD	EA	2.0
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	1405.0
860284	12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	15.0
800000	REMOVE AND DISPOSE MATERIALS & EQUIPMENT	LS	1.0
800000	REALIGN EXISTING VIDEO CAMERA	EA	3.0

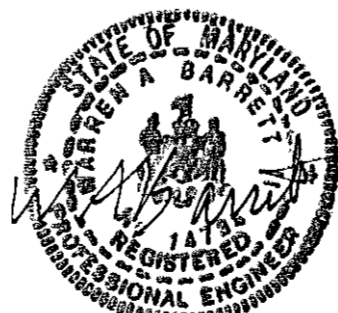
C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

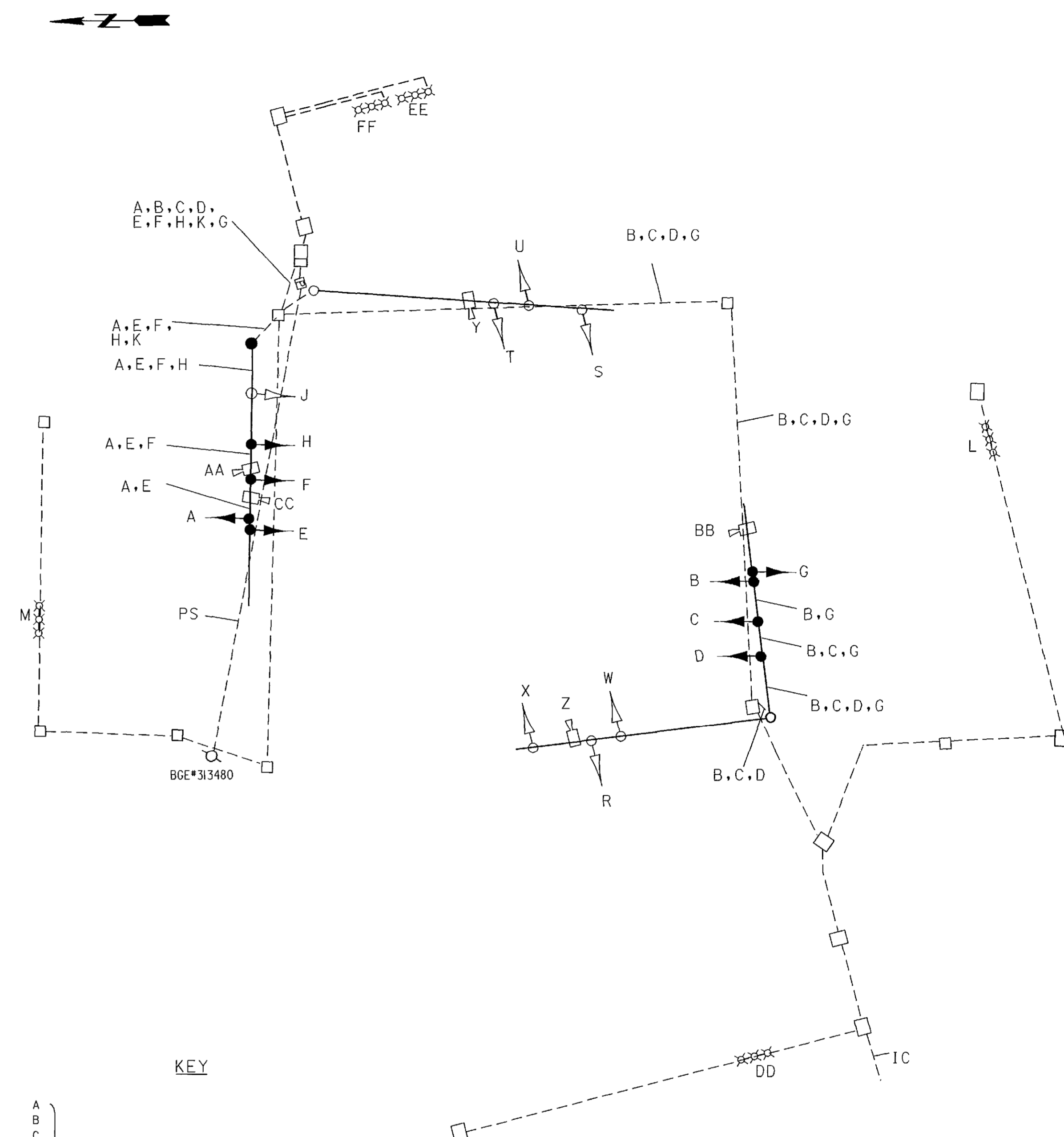
PHASE CHART



PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 1 AND 5	←G	←G	R	R	←G	←G	←G	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6															
PHASE 1 AND 6	←G	←G	G	G	←R	←R	←R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE	←Y	←Y	Y	Y	←R	←R	←R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	←R	←R	R	R	←G	←G	←G	G	G	R	R	R	R	R	R
2 AND 5 CHANGE	←R	←R	R	R	←Y	←Y	←Y	Y	Y	R	R	R	R	R	R
PHASE 2 AND 6	←R	←R	G	G	←R	←R	←R	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	←R	←R	Y	Y	←R	←R	←R	Y	Y	R	R	R	R	R	R
PHASE 3	←R	←R	R	R	←R	←R	←R	R	R	R	R	←G/G	←G/G	G	
3 CHANGE	←R	←R	R	R	←R	←R	←R	R	R	R	R	Y	Y	Y	
PHASE 4	←R	←R	R	R	←R	←R	←R	R	R	←G/G	←G/G	G	R	R	R
4 CHANGE	←R	←R	R	R	←R	←R	←R	R	R	Y	Y	Y	R	R	R
FLASHING OPERATION	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / Y	FL / R	FL / R	FL / R	FL / R	FL / R	FL / R



WIRING DIAGRAM



KEY

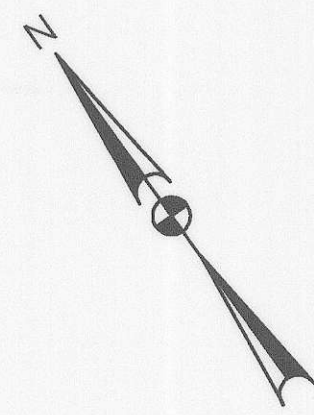
- A } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- B } 1 CONDUCTOR BARE COPPER GROUND (NO. 6 AWG)
- C } EXISTING CABLE
- D } PS POWER SOURCE
- E } IC INTERCONNECT CABLE
- F }
- G }
- H }
- I }
- J }
- K }
- L }
- M }
- N }
- O }
- P }
- Q }
- R }
- S }
- T }
- U }
- V }
- W }
- X }
- Y }
- Z }
- AA }
- BB }
- CC }
- DD }
- EE }
- FF }

ADDENDUM NO. 4 10/17/06

Gannett Fleming
 4701 Mt. Hope Drive
 Seton Business Park
 Baltimore, Maryland 21215
 410-686-1460

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 TEMPORARY TRAFFIC SIGNALIZATION PLAN - PHASE 3
 MD 732 (GUILFORD ROAD) AT DORSEY RUN ROAD
 ROADWAY IMPROVEMENTS

GENERAL INFORMATION
 SCALE: NTS DATE: SEPT. 2006 CONTRACT NO.:
 DESIGNED BY: DKS COUNTY: HOWARD
 DRAWN BY: DKS LOGMILE: 13732R00.56
 CHECKED BY: TCC T.I.M.S. NO.: G469
 F.A.P. NO.: TOD NO.:
 DRAWING NO. TS 4653A - OF SHEET NO. 93A OF 156



POT. STA. 16+85.44

17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50 21+00 21+50

L.O.W.

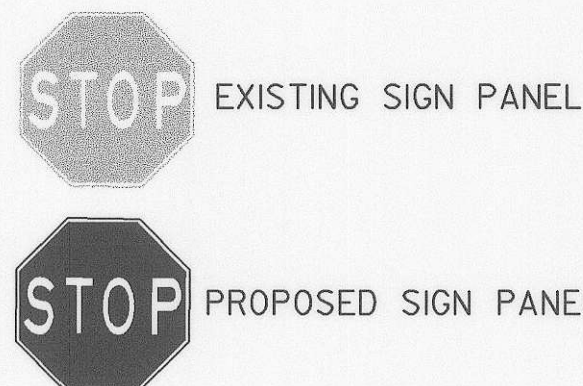
LIMIT OF WORK
GUILFORD ROAD
STA. 20+59.07
CONTRACT NO. J-4175

LIMIT OF WORK
DORSEY RUN ROAD
STA. 20+85.80
CONTRACT NO. J-4175

MATCH LINE STA. 22+00 SEE SHEET SP02

- PAVEMENT MARKING LEGEND**
- (A) 5 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
 - (B) 5 INCH SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
 - (C) 5 INCH SOLID SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
 - (D) 5 INCH SOLID SKIP YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
 - (E) 16 INCH SOLID YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (ISLANDS AND HATCHING)
 - (F) 5 INCH SOLID SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (3 FOOT LINE WITH 9 FOOT SPACE)
 - (G) 24 INCH SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (STOP BAR)
 - (H) 5 INCH SOLID DOUBLE YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
 - (J) HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
 - (K) 10 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
 - (L) 12 INCH SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK)

- SIGNING AND PAVEMENT MARKING NOTES**
1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
 2. "NEW" PAVEMENT MARKINGS SHALL TIE INTO EXISTING MARKINGS AT LOCATIONS SHOWN ON THE PLAN.
 3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH "NEW" MARKINGS SHALL BE REMOVED (GROUND OFF).



MATCH EXISTING PAVEMENT MARKING

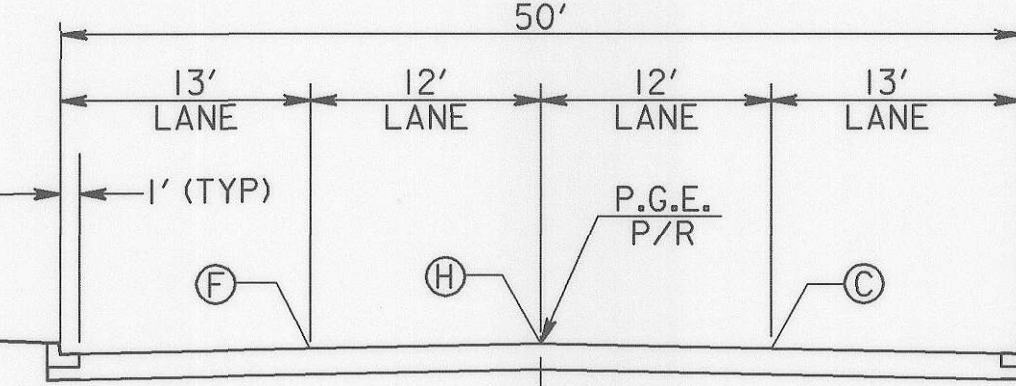
BEGIN DOUBLE YELLOW CENTERLINE

EXISTING GROUND

PROP R/W

B CONSTRUCTION

PROP R/W



GUILFORD ROAD
TYPICAL PAVEMENT MARKING

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

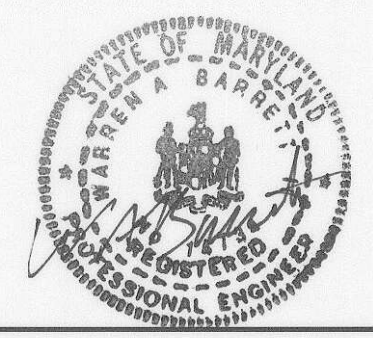
Jan P. de 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

Steve Shevan 10/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Steve Shevan 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

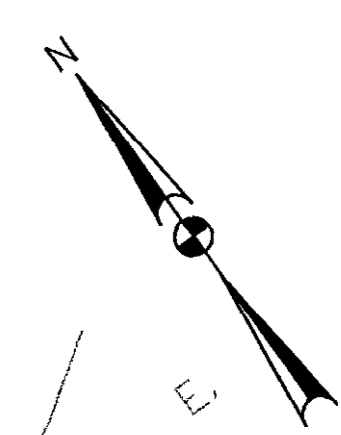
BALTIMORE, MARYLAND



DES:	ADDENDUM NO. 4	10-17-06
DRN:		
CHK:		
DATE:	BY NO.	DATE

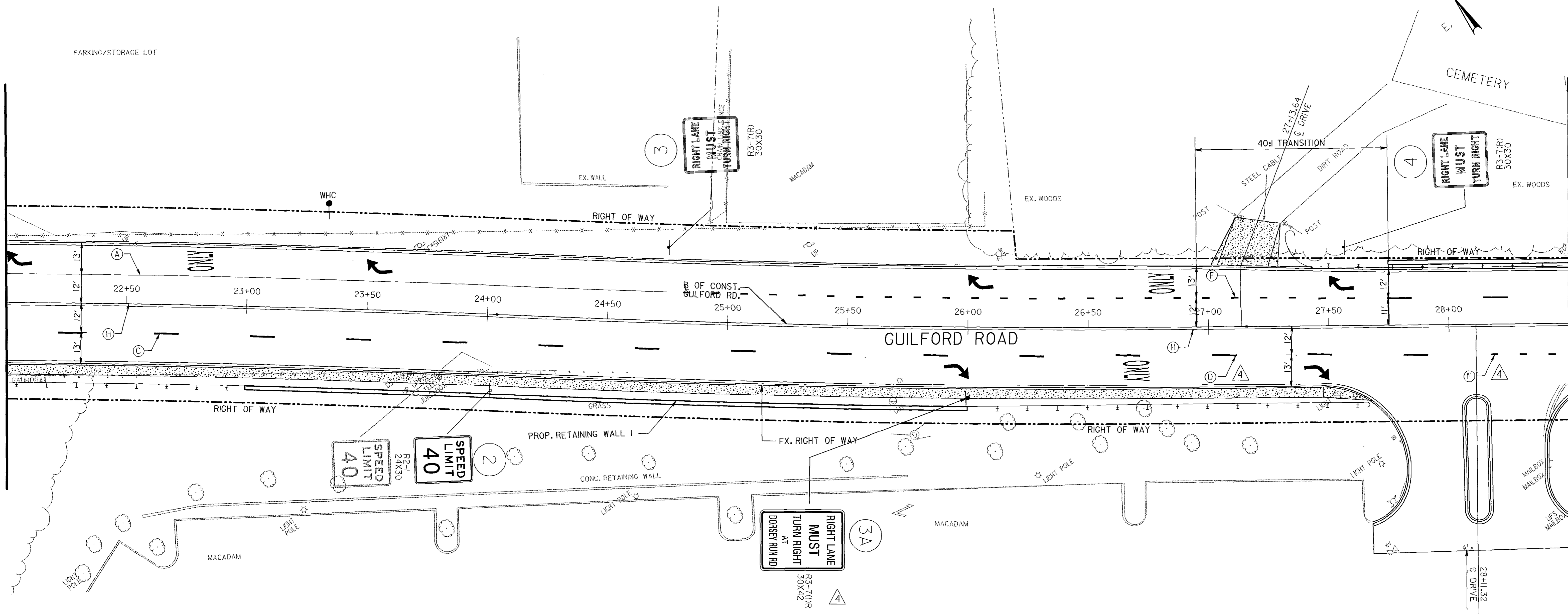
GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
STA 20+59 TO STA 22+00
CAPITAL PROJECT No. J-4175 AND B-3855

SPOI
SCALE 1" = 20'
SHEET 34 OF 156



MATCH LINE STA. 22+00 SEE SHEET SPO1

MATCH LINE STA. 28+50 SEE SHEET SPO3

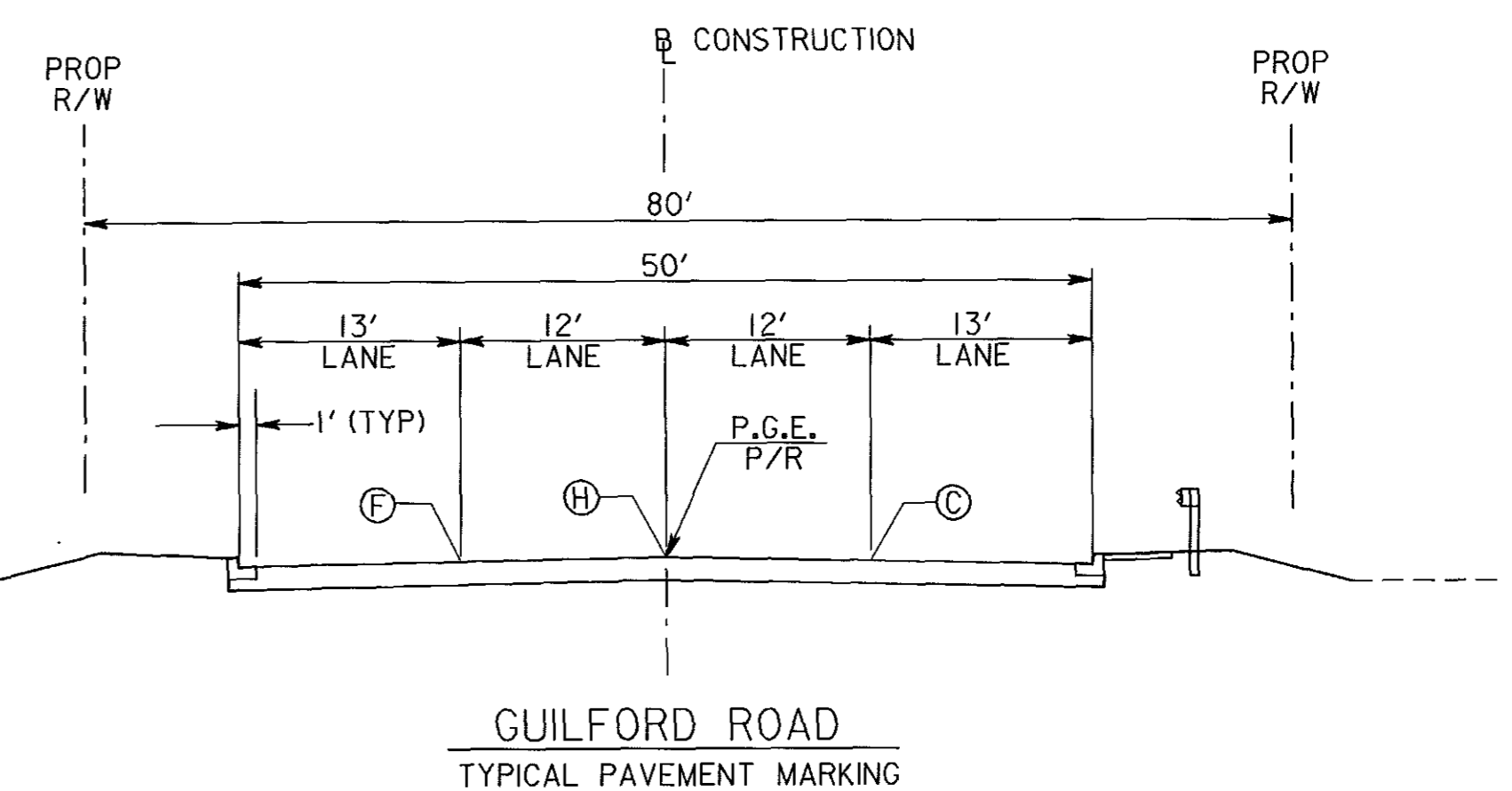
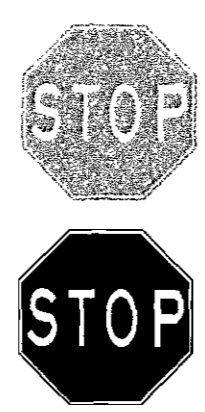


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (D) 5 INCH SOLID SKIP YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (E) 16 INCH SOLID YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (ISLANDS AND HATCHING)
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- (L) 12 INCH SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK)

SIGNING AND PAVEMENT MARKING NOTES

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
2. 'NEW' PAVEMENT MARKINGS SHALL TIE INTO EXISTING MARKINGS AT LOCATIONS SHOWN ON THE PLAN.
3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH 'NEW' MARKINGS SHALL BE REMOVED (GROUND OFF).



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Jan P. Chen 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

Steve Shuman 10/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Willie Z. Wald 10-17-06
CHIEF, BUREAU OF HIGHWAYS DATE

Steve Shuman 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



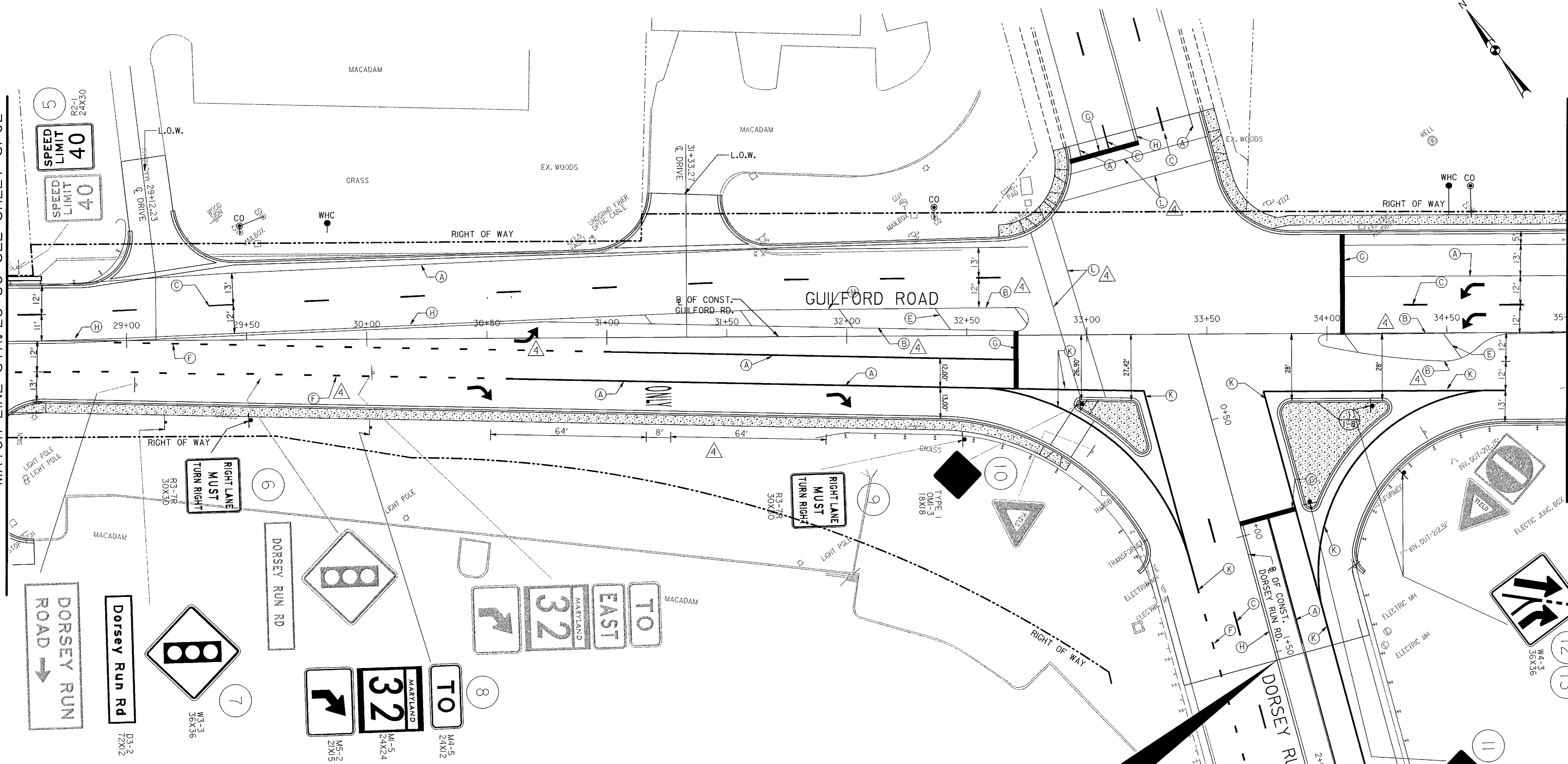
DES:		ADDENDUM NO. 4	10-17-06
DRN:			
CHK:			
DATE:	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
STA 22+00 TO STA 28+50
CAPITAL PROJECT No. J-4175 AND B-3855

SPO2
SCALE
1" = 20'
SHEET
95 OF 156

MATCH LINE STA. 28+50 SEE SHEET SP02

MATCH LINE STA. 35+00 SEE SHEET SP03

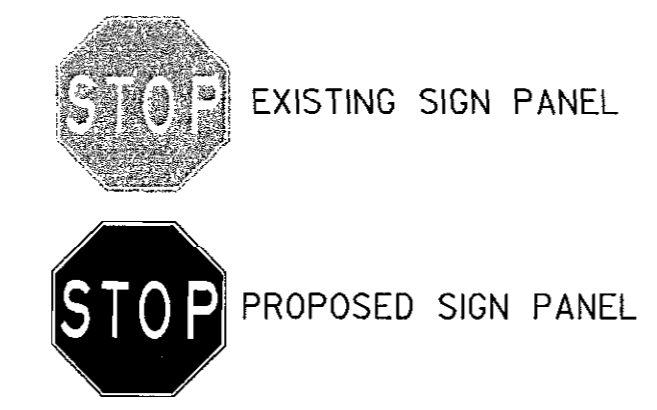


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
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- (I) HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
- (J) 10 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (K) 12 INCH SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK)

SIGNING AND PAVEMENT MARKING NOTES

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
2. 'NEW' PAVEMENT MARKINGS SHALL TIE INTO EXISTING MARKINGS AT LOCATIONS SHOWN ON THE PLAN.
3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH 'NEW' MARKINGS SHALL BE REMOVED (GROUND OFF).



LIMIT OF WORK
 DORSEY RUN ROAD
 STA. 1+53.36
 CONTRACT NO. J-4175
 MATCH EXISTING
 PAVEMENT MARKINGS

Guilford Road
 To Nat'l Bus Pkwy
 EXISTING SIGN
 TO REMAIN

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

John P. [Signature] 10/17/06
 DIRECTOR OF PUBLIC WORKS DATE

Steve Sharan 10/17/06
 CHIEF, BUREAU OF ENGINEERING DATE

Walter T. [Signature] 10-17-06
 CHIEF, BUREAU OF HIGHWAYS DATE

Steve Sharan 10/17/06
 CHIEF, DIVISION OF TRANSPORTATION, DATE
 SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES:		ADDENDUM NO. 4	10-17-06
DRN:			
CHK:			
DATE:	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
 SIGNING AND PAVEMENT MARKING
 PLAN SHEET
 STA 28+50 TO STA 35+00
 CAPITAL PROJECT No. J-4175 AND B-3855

SP03

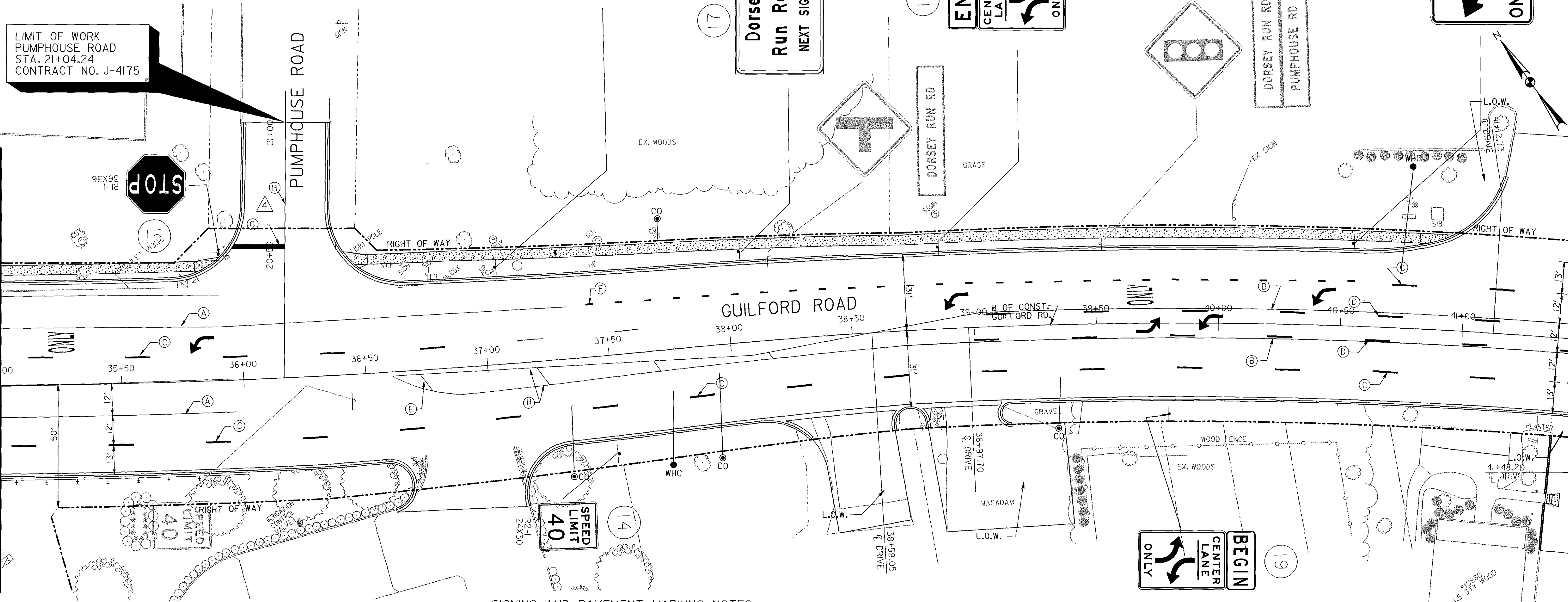
SCALE
 1" = 20'

SHEET
 96 OF 156

MATCH LINE STA. 35+00 SEE SHEET SP03

MATCH LINE STA. 41+50 SEE SHEET SP05

LIMIT OF WORK
PUMPHOUSE ROAD
STA. 21+04.24
CONTRACT NO. J-4175

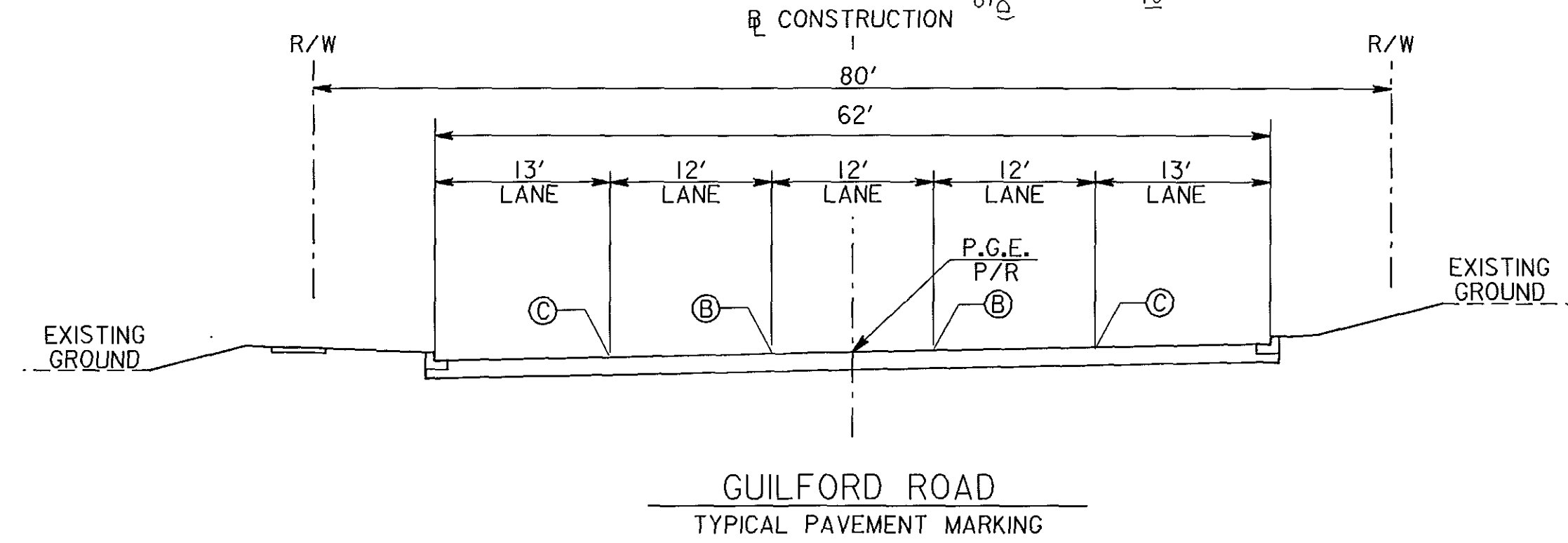
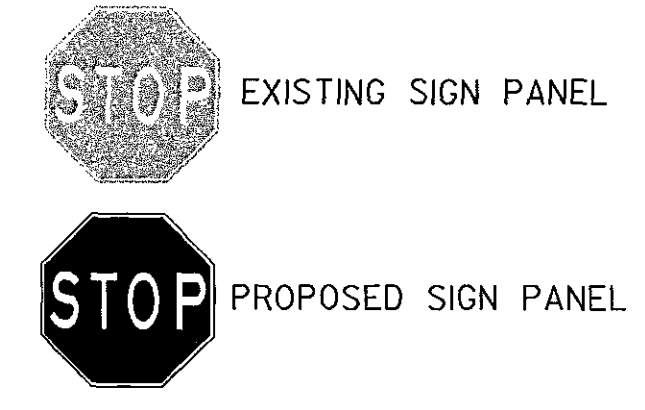


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
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SIGNING AND PAVEMENT MARKING NOTES

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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

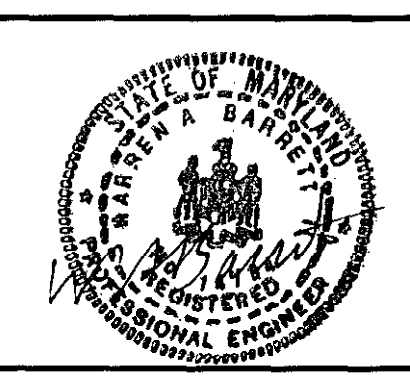
John J. ... 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

Paul J. ... 10/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Steve Shuman 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



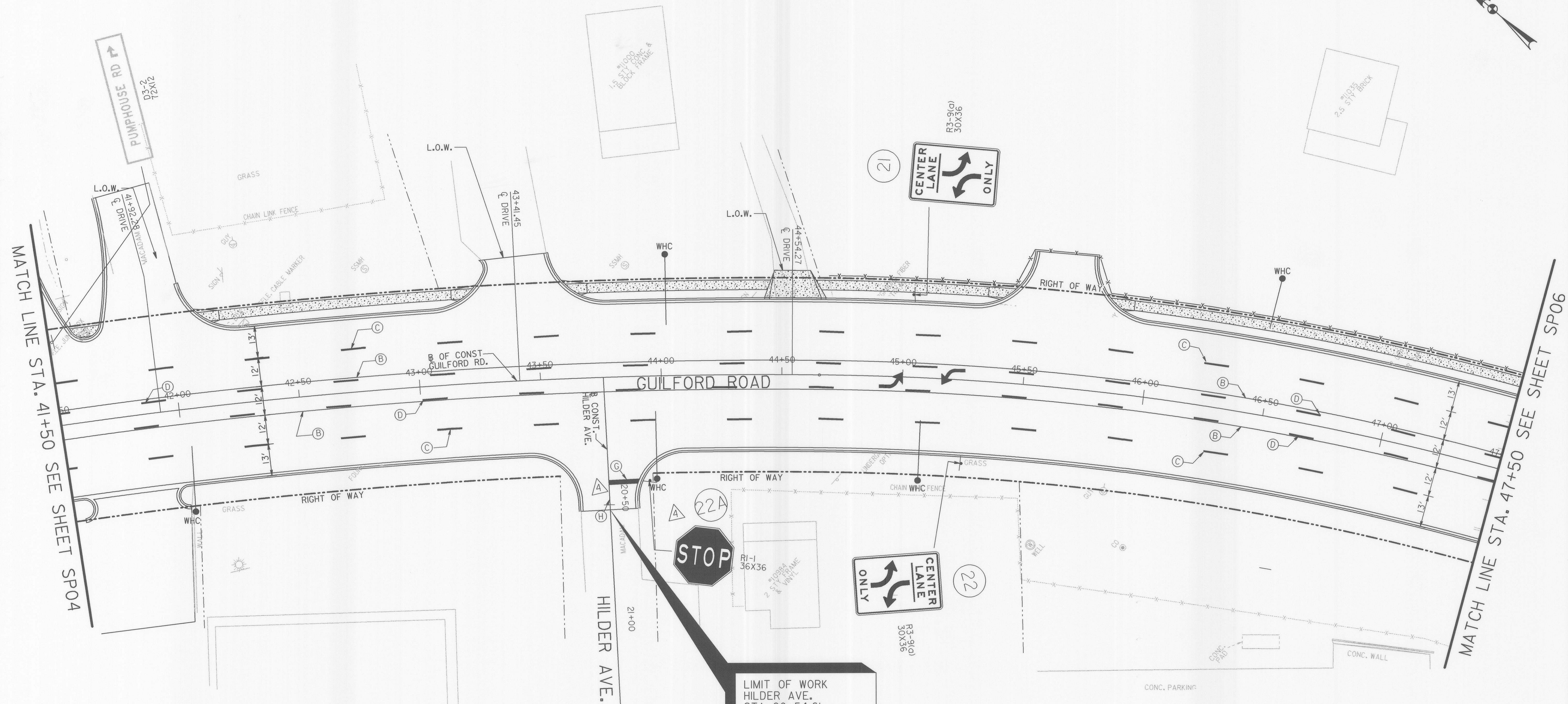
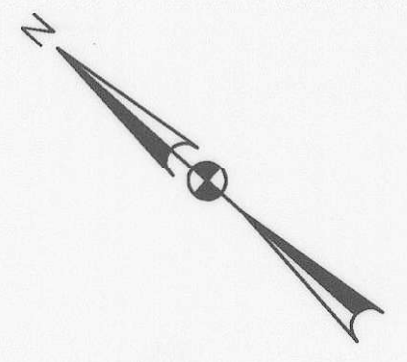
DES:		ADDENDUM NO. 4	10-17-06
DRN:			
CHK:			
DATE:	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
STA 35+00 TO STA 41+50
CAPITAL PROJECT NO. J-4175 AND B-3855

SP04

SCALE
1" = 20'

SHEET
97 OF 156

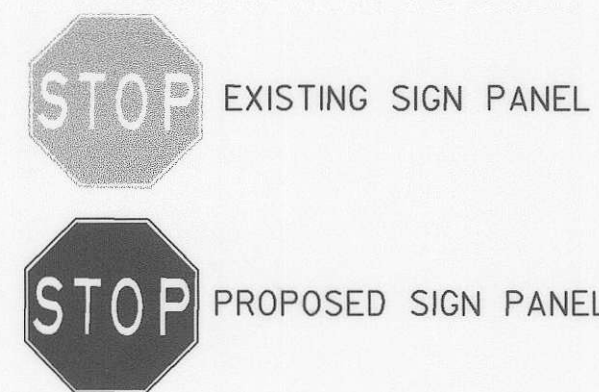


PAVEMENT MARKING LEGEND

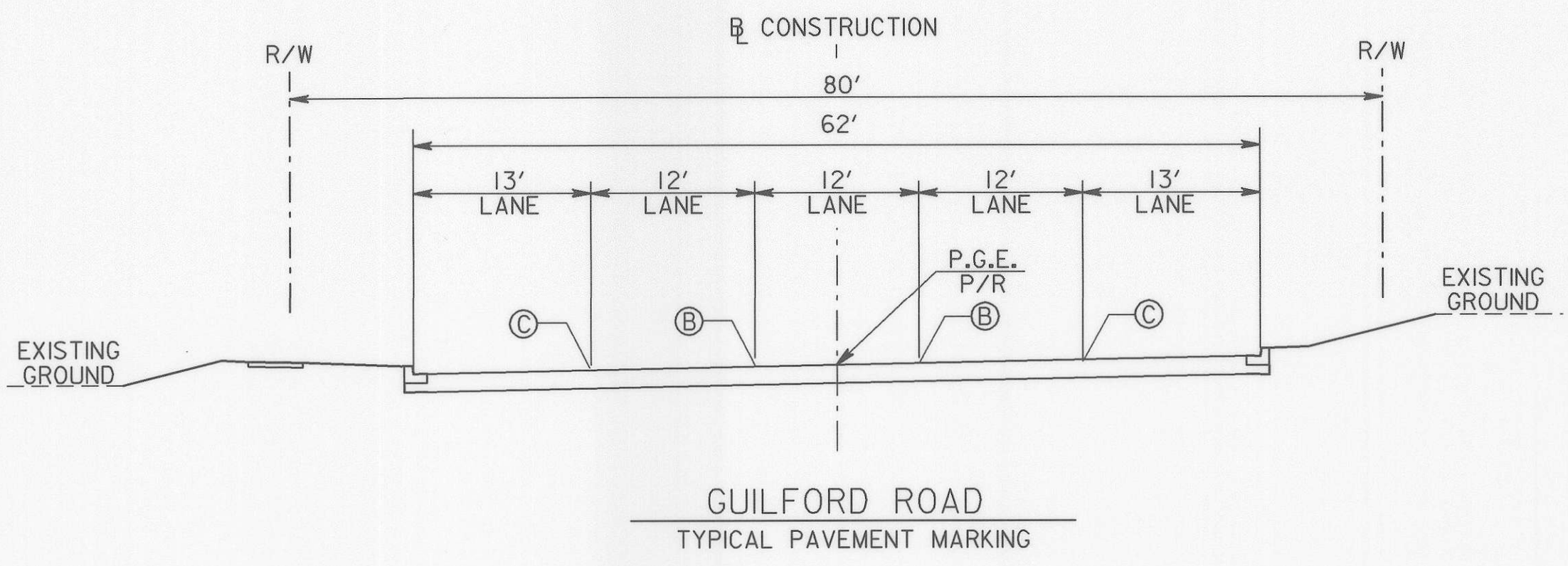
- (A) 5 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
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SIGNING AND PAVEMENT MARKING NOTES

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3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT MARKINGS SHALL BE REMOVED (GROUND OFF).



LIMIT OF WORK
HILDER AVE.
STA. 20+54.61
CONTRACT NO. J-4175



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

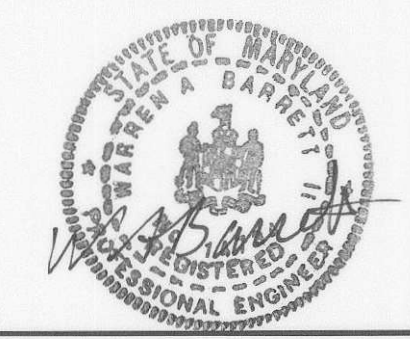
John J. Clark 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

Steve Shanahan 10/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Steve Shanahan 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

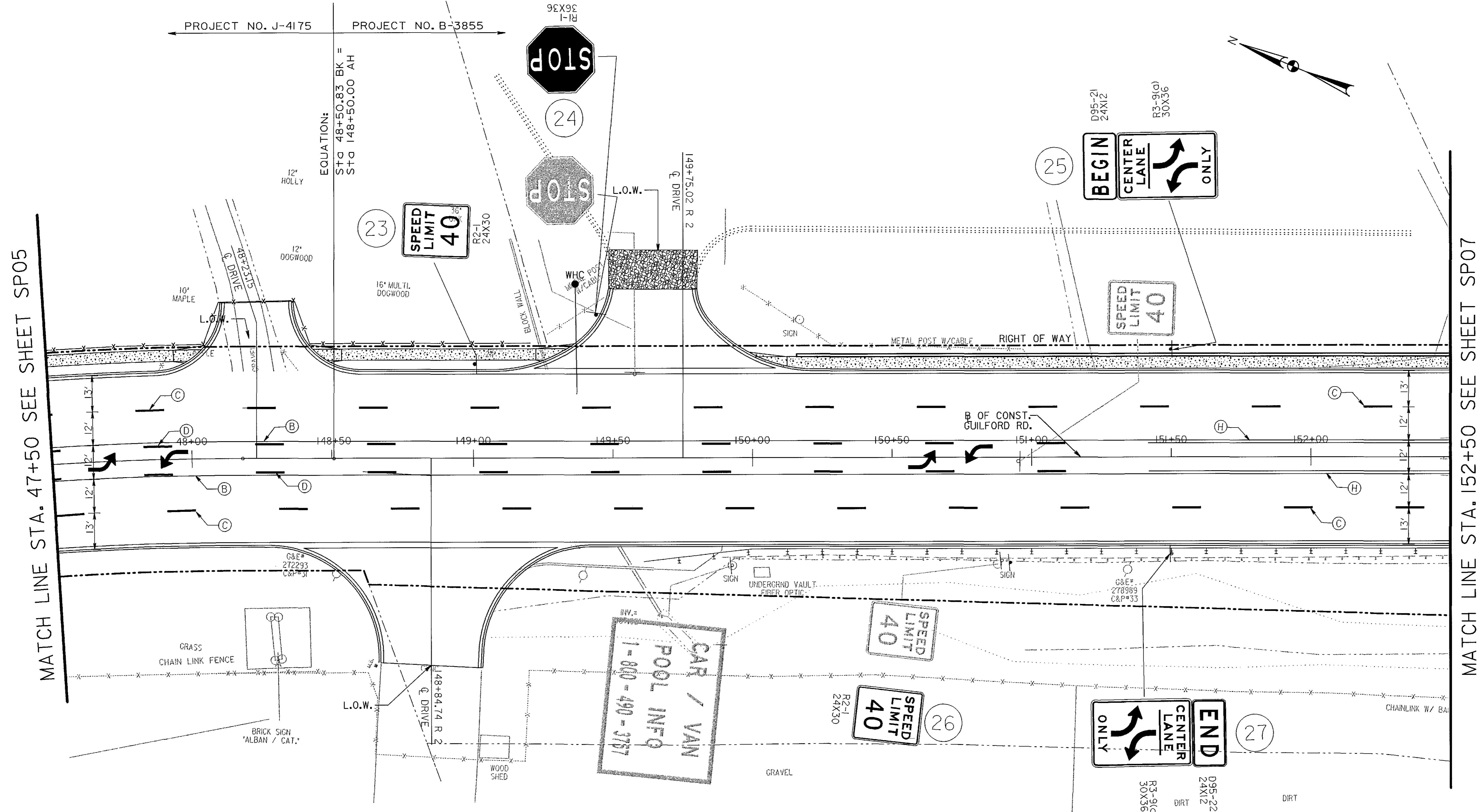
BALTIMORE, MARYLAND



DES:		A	ADDENDUM No. 4	10-17-06
DRN:				
CHK:				
DATE:	BY	NO.		DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
STA 41+50 TO STA 47+50
CAPITAL PROJECT No. J-4175 AND B-3855

SPO5
SCALE
1" = 20'
SHEET
98 OF 156

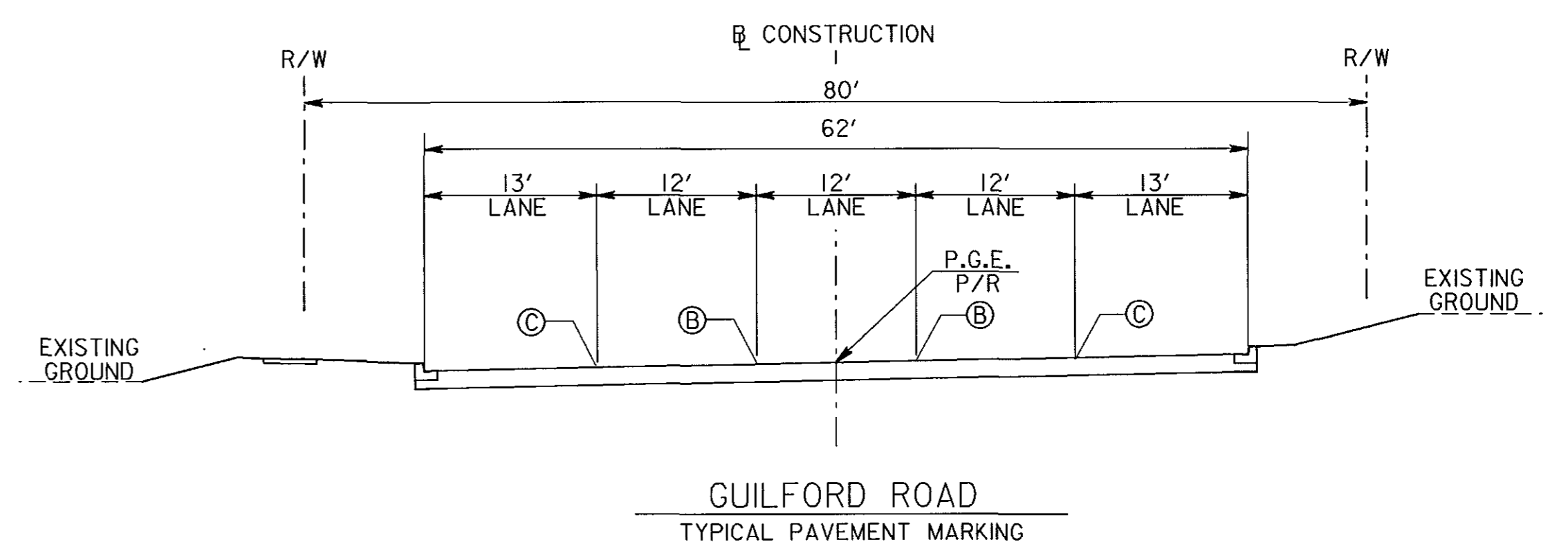
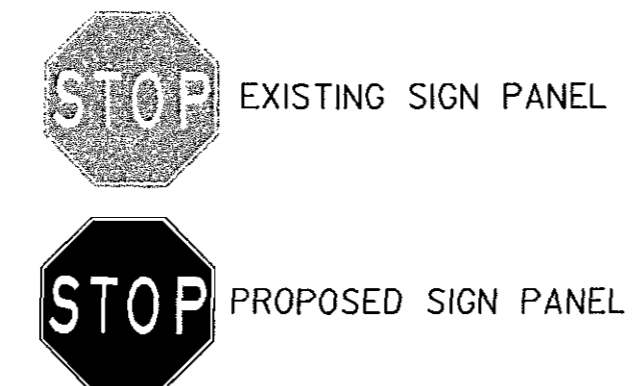


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (D) 5 INCH SOLID SKIP YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
- (E) 16 INCH SOLID YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (ISLANDS AND HATCHING)
- (F) 5 INCH SOLID SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (3 FOOT LINE WITH 9 FOOT SPACE)
- (G) 24 INCH SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (STOP BAR)
- (H) 5 INCH SOLID DOUBLE YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (J) HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
- (K) 10 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (L) 12 INCH SOLID WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS (CROSSWALK)

SIGNING AND PAVEMENT MARKING NOTES

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
2. 'NEW' PAVEMENT MARKINGS SHALL TIE INTO EXISTING MARKINGS AT LOCATIONS SHOWN ON THE PLAN.
3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH 'NEW' MARKINGS SHALL BE REMOVED (GROUND OFF).



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

John P. Deane 10/17/06
 DIRECTOR OF PUBLIC WORKS DATE

Steve Shanahan 10/17/06
 CHIEF, BUREAU OF ENGINEERING DATE

Steve Shanahan 10/17/06
 CHIEF, DIVISION OF TRANSPORTATION, DATE
 SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.



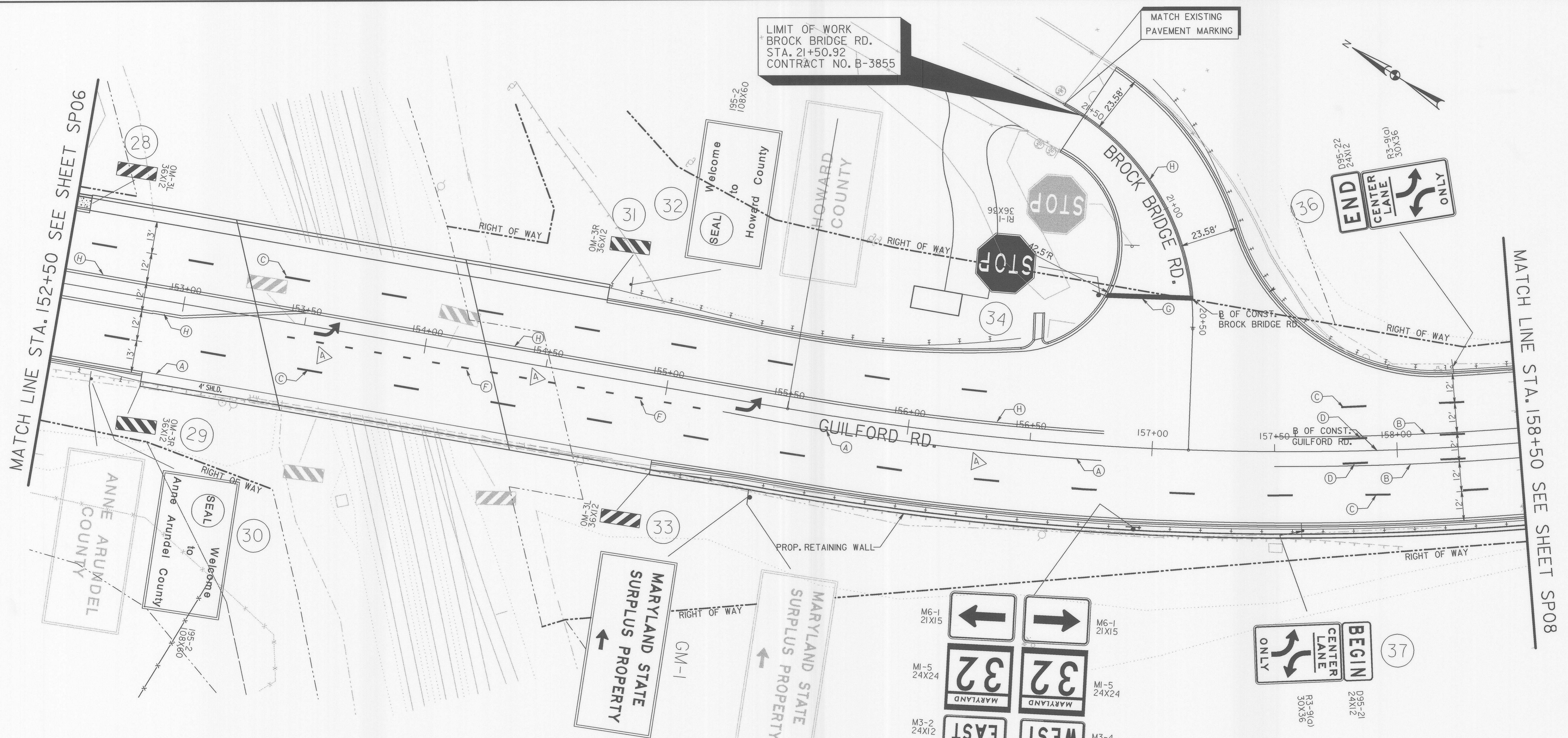
BALTIMORE, MARYLAND



DES:		ADDENDUM NO. 4	10-17-06
DRN:			
CHK:			
DATE:	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
 SIGNING AND PAVEMENT MARKING
 PLAN SHEET
 STA 47+50 TO STA 152+00
 CAPITAL PROJECT No. J-4175 AND B-3855

SP06
SCALE 1" = 20'
SHEET 99 OF 156

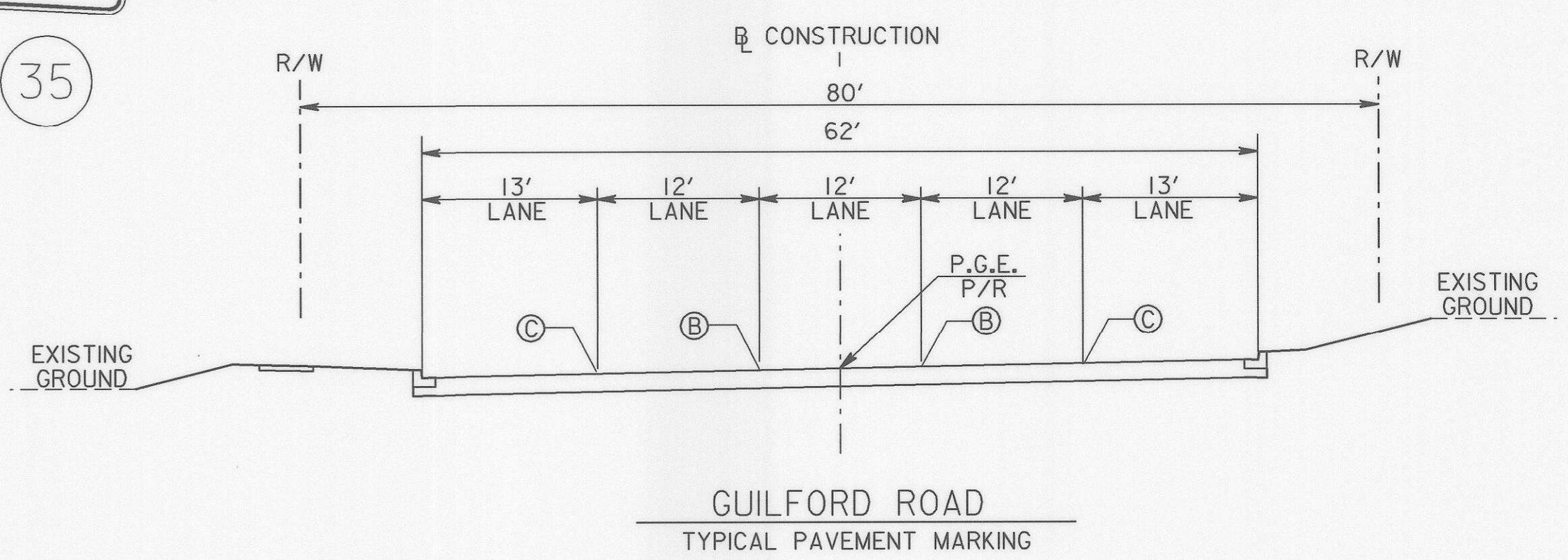
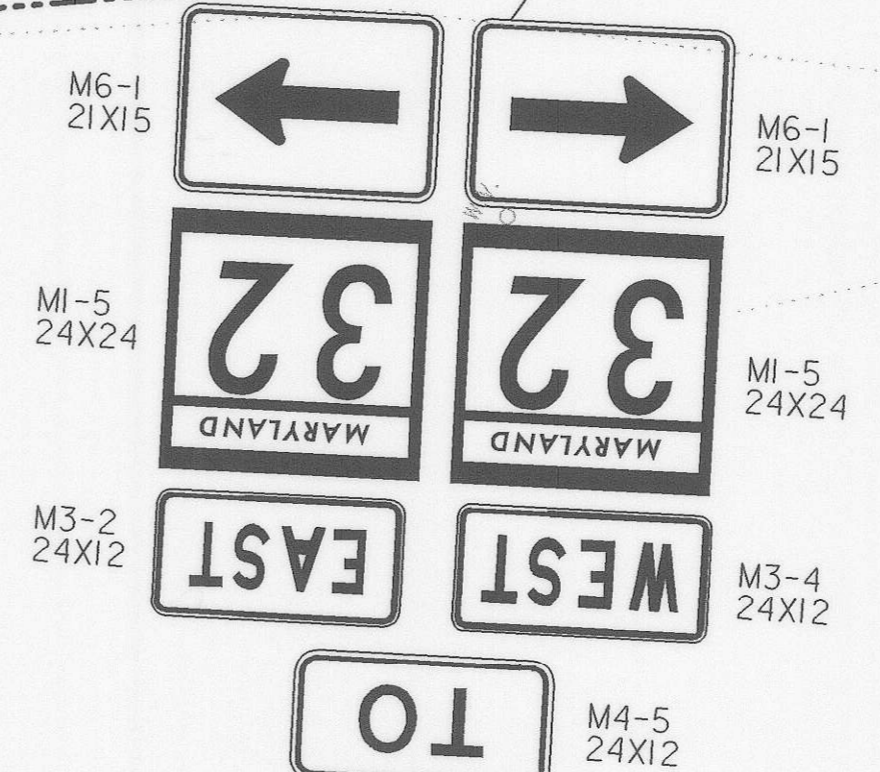
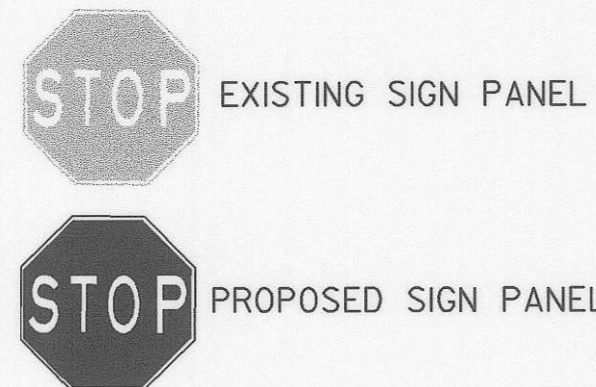


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (B) 5 INCH SOLID YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
- (C) 5 INCH SOLID SKIP WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS (10 FOOT LINE WITH 30 FOOT SPACE)
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SIGNING AND PAVEMENT MARKING NOTES

1. ALL EXISTING SIGNS WITHIN THE LIMITS OF WORK SHALL BE REMOVED UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
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3. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH "NEW" MARKINGS SHALL BE REMOVED (GROUND OFF).
4. ANNE ARUNDEL COUNTY WILL INSTALL STANDARD SIGNS THEMSELVES. THE CONTRACTOR SHOULD CONTACT ANNE ARUNDEL COUNTY MR. NESTOR FLORES AT 410-222-7331 FOR SIGN INSTALLATION.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND


John G. Chen 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

Steve Shaner 10/17/06
CHIEF, BUREAU OF HIGHWAYS DATE

Steve Shaner 10/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Steve Shaner 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.

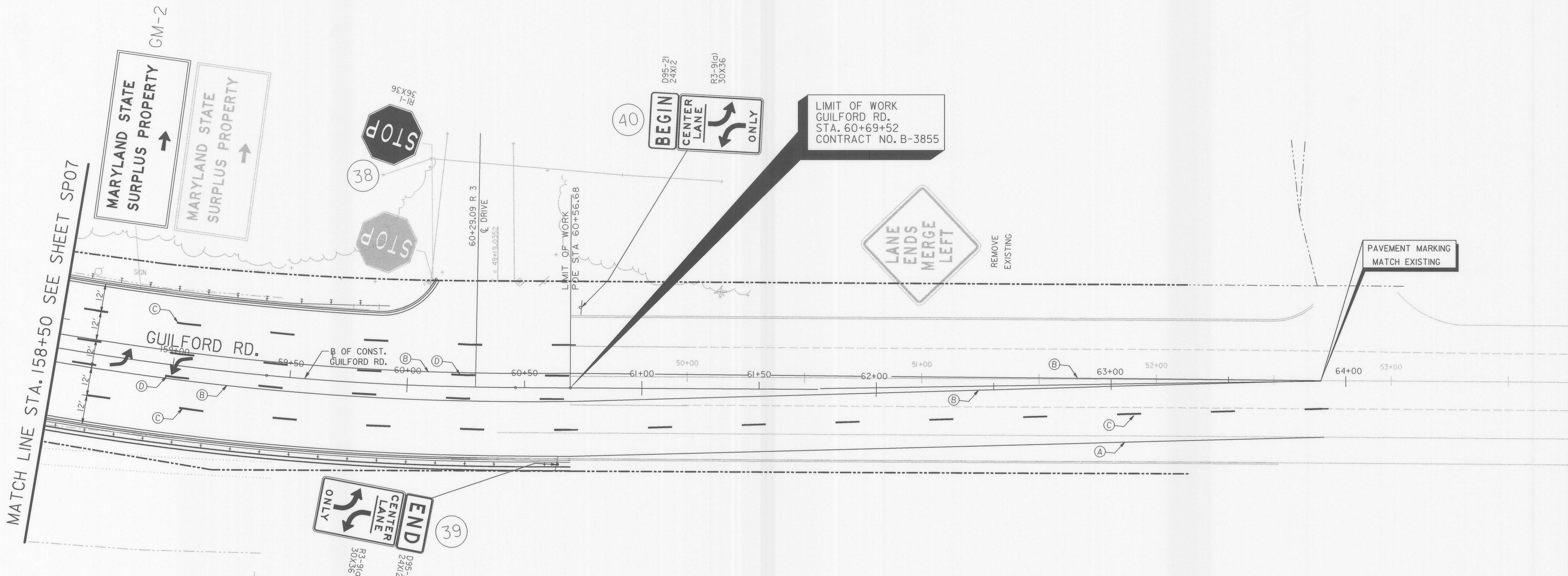
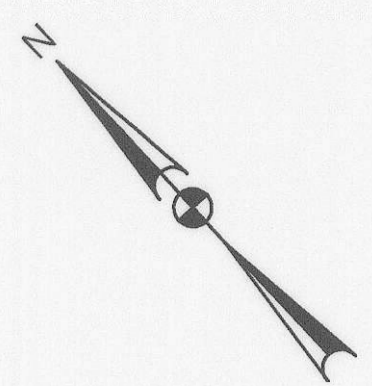


BALTIMORE, MARYLAND

DES:		ADDENDUM NO. 4	10-17-06
DRN:			
CHK:			
DATE:	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
STA 152+50 TO STA 158+50
CAPITAL PROJECT No. J-4175 AND B-3855

SP07
SCALE
1" = 20'
SHEET
100 OF 156

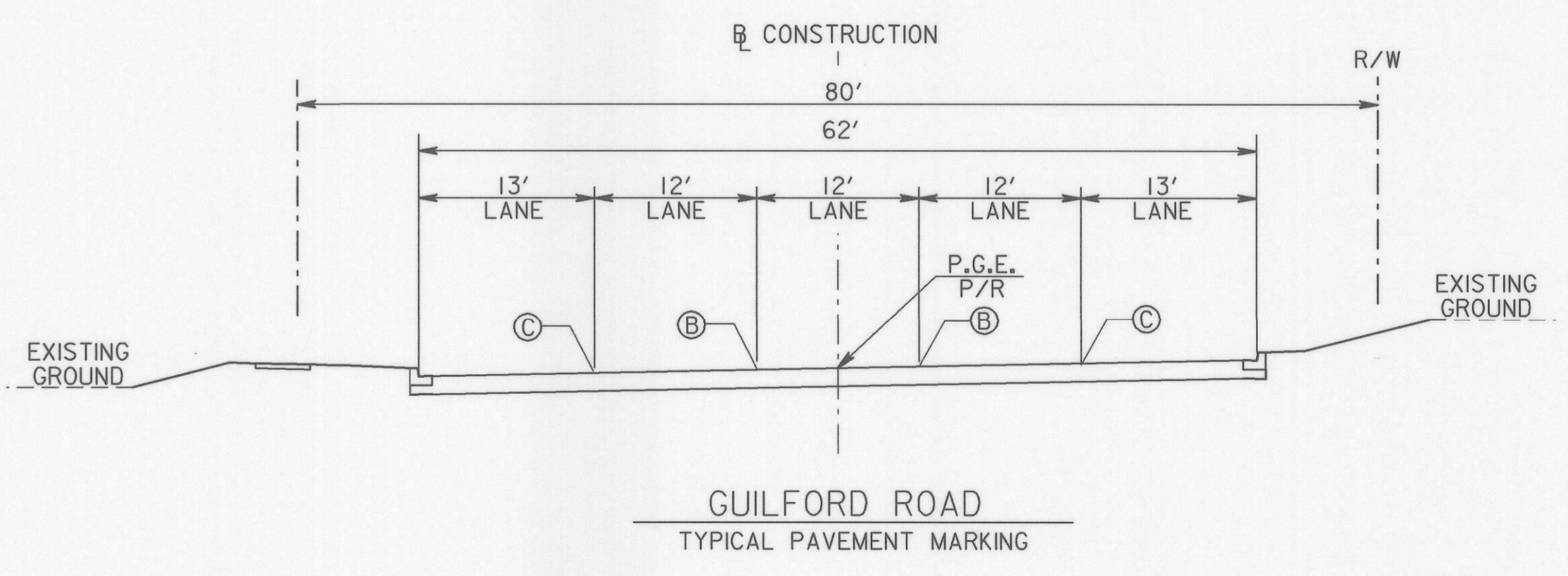
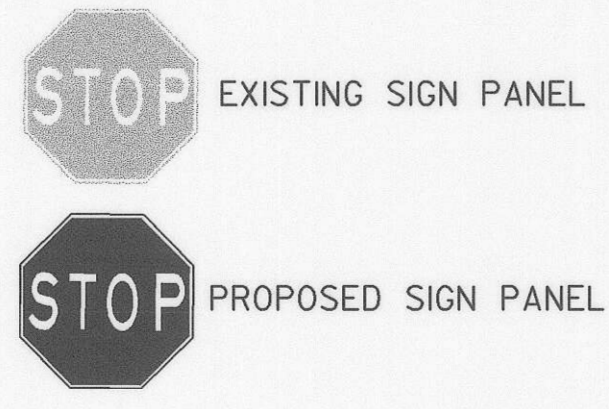


PAVEMENT MARKING LEGEND

- (A) 5 INCH SOLID WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Janet Ch... 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

Steve Sharan 10/17/06
CHIEF, BUREAU OF ENGINEERING DATE

Steve Sharan 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES:	A	ADDENDUM NO. 4	10-17-06
DRN:			
CHK:			
DATE:	BY	NO.	DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
STA 158+50 TO STA 63+00
CAPITAL PROJECT No. J-4175 AND B-3855

SP08
SCALE
1" = 20'
SHEET
101 OF 156

PANEL DESIGNATION	SHEET NO.	QUANTITY	LEGEND										REMARKS
			AREA	SIZE		COLOR		BORDER		ARROW	SIELD		
				WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH	RADIUS	ARROW	SIELD		
GM-1			21 SF	7'-0"	3'-0"	W	G	1'	3'	0"			
GM-2			21 SF	7'-0"	3'-0"	W	G	1'	3'	0"			
22A			12 SF	4'-0"	3'-0"	W	G					D-3(3) MODIFIED	

PANEL DESIGNATION	SHEET NO.	QUANTITY	LEGEND										REMARKS
			AREA	SIZE		COLOR		BORDER		ARROW	SIELD		
				WIDTH	HEIGHT	LEGEND	BCKGRND	WIDTH	RADIUS	ARROW	SIELD		

LEGEND & BACKGROUND COLORS: BLK=BLACK, BLU=BLUE, BRO=BROWN, G=GREEN, R=RED, W=WHITE/SILVER, Y=YELLOW

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LINES: STYLE= LIBRARY=MDSHALS
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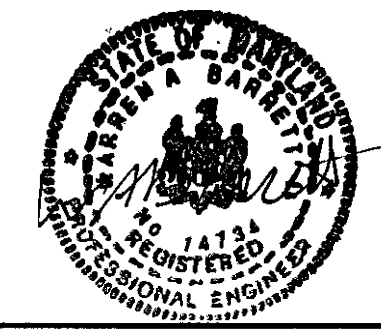
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Jan 17 06 10/17/06
DIRECTOR OF PUBLIC WORKS DATE
Steve Sharan 10/17/06
CHIEF, BUREAU OF HIGHWAYS DATE

Steve Sharan 10/17/06
CHIEF, BUREAU OF ENGINEERING DATE
CHIEF, DIVISION OF TRANSPORTATION, DATE
SPECIAL PROJECTS DIVISION

GANNETT FLEMING, INC.

BALTIMORE, MARYLAND



DES: ADDENDUM NO. 4 10-17-06

DRN:

CHK:

DATE:

BY: NO. DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
GUIDE SIGN MESSAGES - DETAILS & DIMENSIONS
CAPITAL PROJECT No. J-4175 AND B-3855

SN-3

SCALE
N.T.S

SHEET
102 OF 156

SHEET NO.	SIGN NO.	REMARKS	CODE NUMBERS																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
SP01	1	RI-1 (36" X 36")	1	4"X4" WOOD SUPPORT	9	15																
SP01	1A	R3-7R (30" X 30")	1	4"X4" WOOD SUPPORT	6.25	14.5																
SP01		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					9															
SP02	2	R2-1 (24" X 30")	1	4"X4" WOOD SUPPORT	5	14.5																
SP02	3	R3-7(1) (30" X 42")	1	4"X4" WOOD SUPPORT	8.75	15.5																
SP02	3A	R3-7R (30" X 30")	1	4"X4" WOOD SUPPORT	6.25	14.5																
SP02	4	R3-7R (30" X 30")	1	4"X4" WOOD SUPPORT	6.25	14.5																
SP02		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					5															
SP03	5	R2-1 (24" X 30")	1	4"X4" WOOD SUPPORT	5	14.5																
SP03	6	R3-7R (30" X 30")	1	4"X4" WOOD SUPPORT	6.25	14.5																
SP03	7	W3-3 (36" X 36"); D3-2 (72"X12")	2	4"X6" WOOD SUPPORT	15		31.5															
SP03	8	M4-5 (24"X12"); M1-5 (24"X24"); M5-2 (21"X15)	1	4"X4" WOOD SUPPORT	8.19	14.75																
SP03	9	R3-7R (30" X 30")	1	4"X4" WOOD SUPPORT	6.25	14.5																
SP03	10	TYPE 10MI-3 (18" X 18")	1	4"X4" WOOD SUPPORT	2.25	9																
SP03	11	TYPE 10MI-3 (18" X 18")	1	4"X4" WOOD SUPPORT	2.25	9																
SP03	12	W4-3 (36" X 36")	2	4"X6" WOOD SUPPORT	9		29.5															
SP03	13	W4-3 (36" X 36")	2	4"X6" WOOD SUPPORT	9		29.5															
SP03		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					75.44															
SP04	14	R2-1 (24" X 30")	1	4"X4" WOOD SUPPORT	5	14.5																
SP04	15	RI-1 (36" X 36")	1	4"X4" WOOD SUPPORT	9	15																
SP04	16	M4-5 (24" X 12"); M1-5 (24"X24"); M5-1 (21"X15)	1	4"X4" WOOD SUPPORT	8.19	14.75																
SP04	17	D-3(3) mod (48" X 36")	2	4"X6" WOOD SUPPORT	12		31.5															
SP04	18	D95-22 (24" X 12"); R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	9.5	14.5																
SP04	19	D95-21 (24" X 12"); R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	9.5	14.5																
SP04	20	R3-8 (mod) (48" X 30")	2	4"X6" WOOD SUPPORT	10		29															
SP04		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					41															
SP05	21	R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	7.5	15																
SP05	22	R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	7.5	15																
SP05		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					6															
SP06	23	R2-1 (24" X 30")	1	4"X4" WOOD SUPPORT	5	14.5																
SP06	24	RI-1 (36" X 36")	1	4"X4" WOOD SUPPORT	9	15																
SP06	25	D95-21 (24" X 12"); R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	9.5	14.5																
SP06	26	R2-1 (24" X 30")	1	4"X4" WOOD SUPPORT	5	14.5																
SP06	27	D95-22 (24" X 12"); R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	9.5	14.5																
SP06		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					19															
SP07	28	OM-3L (36" X 12")	2	4"X4" WOOD SUPPORT	3	9																
SP07	29	OM-3R (36" X 12")	1	4"X4" WOOD SUPPORT	3	9																
SP07	30	I95-2 (108" X 60") *ANNE ARUNDEL COUNTY*	2	4"X6" WOOD SUPPORT	45		34															
SP07	31	OM-3R (36" X 12")	1	4"X4" WOOD SUPPORT	3	9																
SP07	32	I95-2 (108" X 60") *HOWARD COUNTY*	2	4"X6" WOOD SUPPORT	45		34															
SP07	GM-1	(3' X 7')	2	4"X4" WOOD SUPPORT	21	30																
SP07	33	OM-3L (36" X 12")	1	4"X4" WOOD SUPPORT	3	9																
SP07	34	RI-1 (36" X 36")	1	4"X4" WOOD SUPPORT	9	15																
SP07	35	M4-5 (24"X12"); M3-4 (24" X 12"); M1-5 (24" X 24"); M6-1 (21"X15)	2	4"X4" WOOD SUPPORT	18.375	31.5																
SP07	36	M3-2 (24" X 12"); M1-5 (24" X 24"); M6-1 (21"X15)																				
SP07	36	D95-22 (24" X 12"); R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	9.5	14.5																
SP07	37	D95-21 (24" X 12"); R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	9.5	14.5																
SP07		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					132															
SP08	38	RI-1 (36" X 36")	1	4"X4" WOOD SUPPORT	9	15																
SP08	GM-2	(3' X 7')	2	4"X4" WOOD SUPPORT	21	30																
SP08	39	D95-22 (24" X 12"); R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	9.5	14.5																
SP08	40	D95-21 (24" X 12"); R3-9a (30" X 36")	1	4"X4" WOOD SUPPORT	9.5	14.5																
SP08		EXISTING SIGNS TO BE REMOVED (THIS SHEET)					36.25															
SP05	22A	RI-1 (36" X 36")	1	4"X4" WOOD SUPPORT	9	15																
		ACTUAL CALCULATED TOTAL			448.26	571.50	219.00	323.69														
		ROUNDED ESTIMATE TOTAL			449.00	572.00	219.00	324.00														

* CODE NUMBER DESCRIPTION & UNIT			
CODE NUMBERS	DESCRIPTION	UNIT	CODE NUMBERS
1	F & I SHEET ALUMINUM	SF	
2	F & I WOOD SIGN SUPPORT 4" X 4"	LF	
3	F & I WOOD SIGN SUPPORT 4" X 6"	LF	
4	EX. SIGN AND SUPPORT TO BE REMOVED	SF	

Unit
LF

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Willie Z. Melish 10/17/06
DIRECTOR OF PUBLIC WORKS DATE

Steve Shavar 10/17/06
CHIEF, DIVISION OF TRANSPORTATION, SPECIAL PROJECTS DIVISION DATE

GANNETT FLEMING, INC.



BALTIMORE, MARYLAND

DES: PNF
DRN: PNF
CHK: TOC
DATE:

ADDENDUM NO. 4 10-17-06

BY NO. DATE

GUILFORD ROAD IMPROVEMENTS
SIGNING AND PAVEMENT MARKING
PLAN SHEET
INDEX OF SIGNING QUANTITIES
CAPITAL PROJECT No. J-4175 AND B-3855

SN-II
SCALE N.T.S
SHEET 103 OF 156

FONT: LIBRARY:SHAFONTS
LINES: LIBRARY:INDSHALS
10/16/2006
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