

**SECTION 905 -- PROPOSAL (CONTINUED)**

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) enclose a certified check, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the State of Mississippi as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO.   1   DATED   4/16/2014   ADDENDUM NO.            DATED             
ADDENDUM NO.            DATED            ADDENDUM NO.            DATED           

Number	Description
1	Revise NTB Nos. 4949 & 4950; Amendment EBS Download Required.

TOTAL ADDENDA:   1    
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE \_\_\_\_\_

\_\_\_\_\_  
Contractor

BY \_\_\_\_\_  
Signature

TITLE \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

FAX \_\_\_\_\_

E-MAIL \_\_\_\_\_

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of \_\_\_\_\_ and the names, titles and business addresses of the executives are as follows:

_____ President	_____ Address
_____ Secretary	_____ Address
_____ Treasurer	_____ Address

The following is my (our) itemized proposal.

Revised 09/21/2005

MP-5021-62(010) / 305111301      Scott County(ies)

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 4949**

**CODE: (SP)**

**DATE: 04/16/2014**

**SUBJECT: Contract Time**

**PROJECT: MP-5021-62(010) / 305111301 – Scott County**

The calendar date for completion of work to be performed by the Contractor for this project shall be **September 26, 2014** which date or extended date as provided in Subsection 907-108.06 shall be the end of contract time. It is anticipated that the Notice of Award will be issued no later than be **May 13, 2014** and the effective date of the Notice to Proceed / Beginning of Contract Time will be **July 1, 2014**.

**AN EARLY NOTICE TO PROCEED / BEGINNING OF CONTRACT TIME WILL NOT BE ALLOWED ON THIS PROJECT.**

The available productive days for this project are **60**.

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**SECTION 904 - NOTICE TO BIDDERS NO. 4950**

**CODE: (SP)**

**DATE: 03/26/2014**

**SUBJECT: Scope of Work**

**PROJECT: MP-5021-62(010) / 305111301 – Scott County**

The contract documents do not include an official set of plans, but may by reference include some Standard Drawings or Special Drawings. All other references to plans in the contract documents and Standard Specifications for Road and Bridge Construction are to be disregarded.

Work on this project shall consist of the following:

Mill and overlay approximately 6.8 miles of existing asphalt pavement on SR 21 in Scott County beginning at station 535+97 (1.7 miles north of Hawkins Road) and ending at station 897+52.5 (0.15 miles south of Clyde B Road) in Sebastopol, MS.

Existing pavement management data shows the existing asphalt pavement structure to be 6¼" - 7¾" over four inches (4") of granular material. Verification asphalt cores samples taken showed the existing asphalt pavement thickness ranged from six to sixteen inches (6" - 16").

Construction signs shall be installed as per the detail sheets included prior to the beginning of work.

Failed pavement areas will be saw cut and the existing asphalt pavement removed.

All failed areas will be backfilled with 12.5-mm, MT, asphalt mix. Asphalt leveling quantities for this project were estimated using an 8-inch undercut depth. Maximum compacted lift thickness of the first undercut backfill lift shall be six inches (6").

After completion of the repair of failed areas, milling operations can begin. The existing asphalt roadway shall be cold milled two inches (2") and overlaid with two inches (2") of 12.5-mm, MT, asphalt mix.

Local roads shall be milled and overlaid to the end of the existing asphalt pavement, to right-of-way or as directed. Where a minimum of five feet (5') of shoulder width can be paved at the beginning of local road radii, a 100-foot asphalt pavement taper shall be constructed. Said taper shall be six inches (6") thick and shall conform to the detail drawings.

Asphalt guardrail pads on Bridges 12.3 and 12.6 shall be milled to the face of the guardrail. Existing asphalt guardrail pads on Bridges 13.2 and 13.7 shall be removed. Bridge 15.5 has no existing asphalt guardrail pads. Asphalt guardrail pads conforming to the dimensions shown in the detail sheets shall be constructed at all bridges.

Rub rail shall be added to the existing guardrails at Bridges 12.3 and 12.6. Block-outs only shall be removed and replaced on those posts where rub rail is to be added. Existing guardrails on Bridges 12.3 and 12.6 shall remain.

The existing concrete bridge approach slab on bridge 15.5 is overlaid with asphalt. After completion of asphalt overlay operations, sawing and sealing operations shall be performed at the joint between the end of the concrete bridge approach slab and the asphalt pavement.

Temporary pavement markings shall be constructed at the end of each day's paving operations. Permanent pavement markings shall be constructed after completion of all paving operations.

Raised pavement markers shall be installed on SR 21 and local roads.

The existing roadway ditch between stations 557+00 – 561+00 shall be deepened and graded to provide adequate drainage. The expected maximum depth to deepen the ditch is 12 inches. The expected maximum width of ditching is six foot (6'). After completion of ditching operations, solid sod is to be placed for permanent erosion control. Ditch liner is to be used as directed.

Class 5 Group E granular material shall be used to bring roadway shoulders to grade.

### **GENERAL NOTES**

Asphalt backfill of failed areas should be placed at least 12 hours prior to overlay operations to prevent rutting of mix.

Milling and paving operations shall be performed such that a -2% slope from centerline is provided in normal crown roadway sections. Superelevation through curves shall be maintained as it currently exists or improved as directed.

Milling shall not begin until an **approved** asphalt mix design has been received, nor until such time that, in the opinion of the Engineer, weather conditions have been consistently suitable enough to allow placement of the HMA/WMA after the milling operations. Any areas milled shall be repaved the same day. Traffic shall not be allowed on milled main line surfaces. Milling shall be limited to an area established by the Engineer, which, in the Engineer's judgment, can be overlaid the same day. The Contractor shall not exceed that area.

Traffic will not be allowed on milled main line surfaces.

Temporary asphalt joints (aka paper joints) shall be constructed at the end of each day's milling operations where the milled surface joins the existing asphalt pavement surface. Paper joints shall be a minimum of nine feet (9') in length and for the full width of the milled surface. Paper joints shall be adequately maintained.

Any damage to the roadway that occurs as a result of the Contractor's failure to overlay the milled surface within the specified time shall be repaired at the Contractor's expense.

The Contractor is responsible for providing shoulder drainage outlets as applicable in milled areas. Payment for these outlets shall be included in the bid price for the milling of bituminous pavement.

**The Reclaimed Asphalt Pavement (RAP) material removed by the mill operation shall become the property of the Contractor with the exception of 10,000 tons or 50% of the total anticipated RAP tonnage, whichever is less, to be delivered to the MDOT's milling stockpile located across from the MDOT Maintenance Building at 1115 Hwy 15 Bypass, Philadelphia, MS.** The contractor is responsible for coordinating the delivery of asphalt milling with MDOT maintenance personnel.

Existing asphalt driveway connections shall be removed and replaced with new asphalt connections.

Potholes that may exist or occur in the existing pavement are to be patched in a timely manner. Patching of potholes shall be considered an absorbed item.

Shoulders will be brought to grade using Class 5, Group E, granular material as directed. Placement of the granular material on the finished asphalt course will not be permitted. All shoulders shall be bladed, rolled, and compacted to a finished slope of minus four percent (-4%).

Temporary stripe will be required immediately after milling and overlaying and prior to opening area to traffic. Temporary stripe is to be placed in the same location and layout as permanent stripe.

All permanent striping will be thermoplastic. The width of the permanent stripe will be six inches (6").

The Contractor shall erect and maintain construction signing, and provide and maintain all temporary signs and traffic control devices necessary to safely conduct traffic through the work area in accordance with the Traffic Control Plan and the MUTCD.

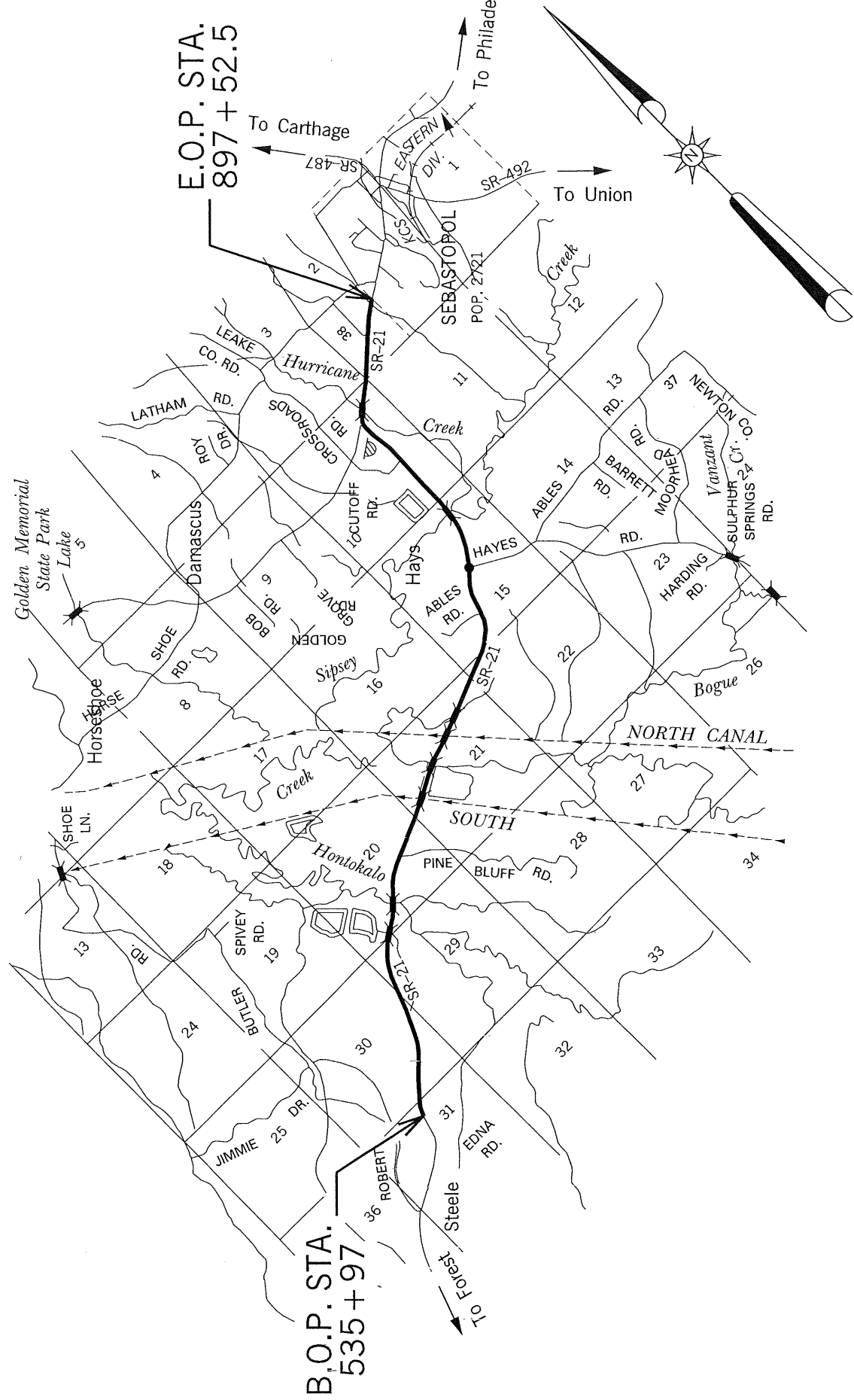
All traffic control devices shall meet current MDOT and MUTCD requirements.

The Contractor shall on a daily basis, remove all debris from within the roadway and a 30-foot clear zone which, in the opinion of the Engineer, is a hazard to the traveling public. This activity shall begin with the beginning of work or the beginning of the contract time, whichever comes first. No direct payment will be made for the debris removal. The cost is to be included in the prices of items bid. Failure of the Contractor to remove debris as prescribed herein shall be just cause for withholding the monthly progress estimate payment or suspending active operations until the debris is satisfactorily removed by the Contractor. As described in the applicable Notice-To-Bidders, final project cleanup is required and will be completed prior to the scheduling of the final inspection.

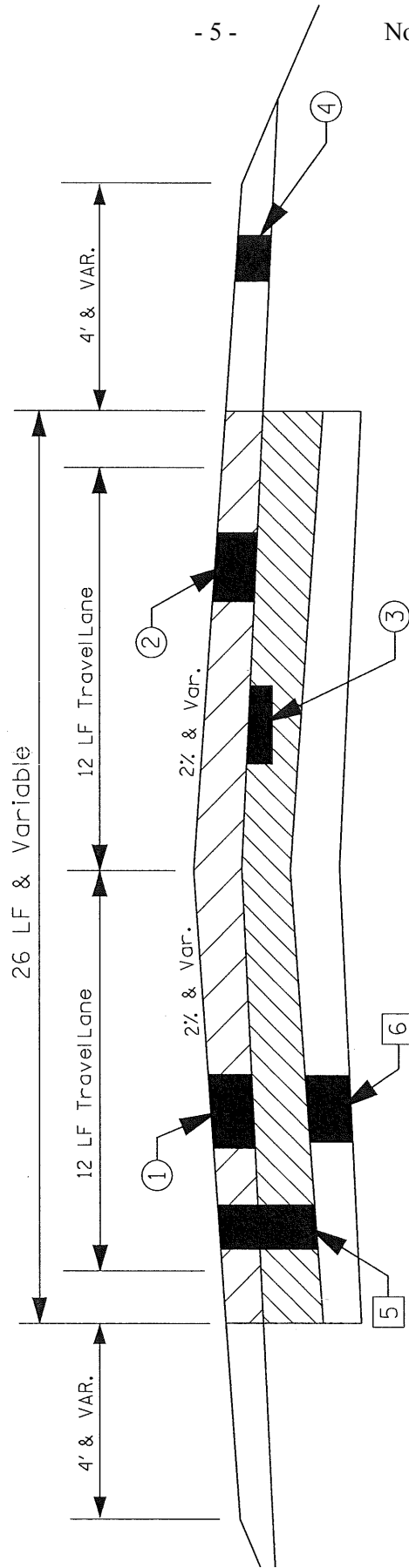
It shall be the responsibility of the Contractor to protect existing structures such as pipes, aprons, signs, utilities, etc. from damage occurring as a result of construction activities. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged during the life of the

contract. No payment will be made for replacements and or repairs resulting from such damages.

SR 21 - SCOTT COUNTY  
MP-5021-62(010)  
B.O.P. 535+97 - E.O.P. 897+52.5



SR 21 - SCOTT COUNTY  
 MP-5021-62(010)  
 TYPICAL SECTION  
 MILL & OVERLAY  
 B.O.P. 535+97 - E.O.P. 897+52.5



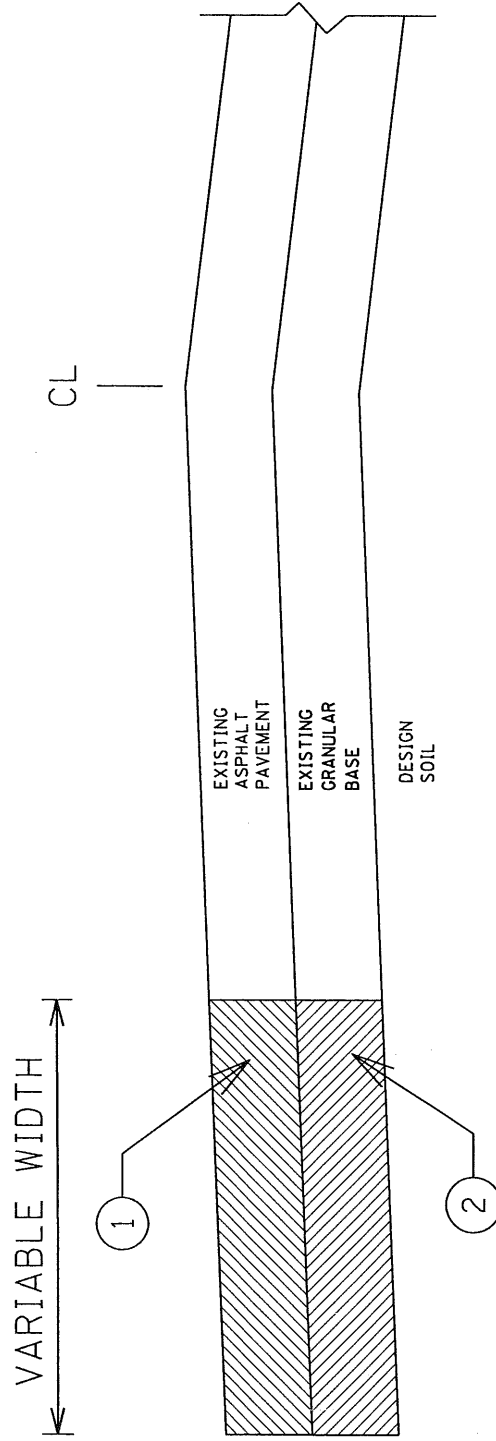
EXISTING PAVEMENT

- ① 2" Cold Milling (Correct to 2% NormalCrown or SE)
- ② 2" HMA/WMA 12.5mm MT
- ③ HMA/WMA 12.5mm MT (Failed Area FullDepth - See Failed Area Detail)
- ④ Class 5 Group E Granular Material (As Directed)

- ⑤ 6 1/4" - 7 3/4" HMA
- ⑥ 4" Granular Material



SR21-SCOTT COUNTY  
MP-5021-62(010)  
TYPICAL SECTION  
FAILED AREA REPAIR



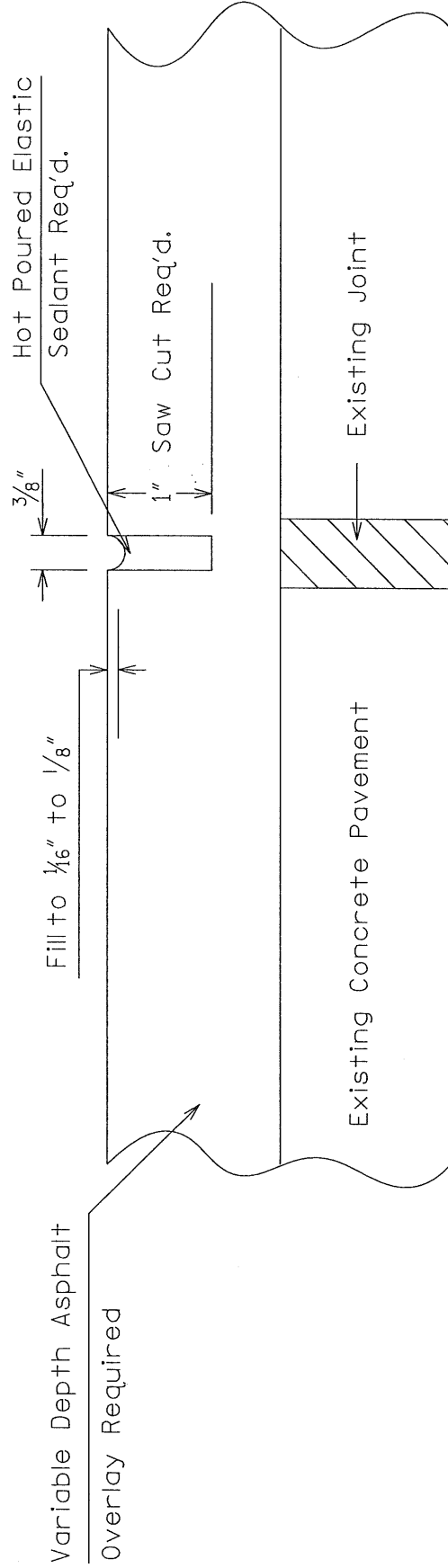
- ① REMOVE AND REPLACE WITH HMA/WMA 12.5 MM MT (VARIABLE DEPTH)
- ② UNDERCUT AND BACKFILL WITH HMA/WMA 12.5 MM MT (UNDERCUT DEPTH VARIABLE AS DIRECTED)

SR 21- SCOTT COUNTY

MP-5Ø21-62(Ø1Ø)

TYPICAL SECTION

SAWING & SEALING TRANSVERSE JOINTS



<b>MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL</b>							
<b>202-B006 REMOVAL OF ASPHALT PAVEMENT FAILED AREAS</b>							
<b>FAILED AREA LOCATIONS</b>							
<b>LOCATION</b>	<b>STA.</b>	<b>TO</b>	<b>STA.</b>	<b>LENGTH (ft)</b>	<b>WIDTH (ft)</b>	<b>AREA (SF)</b>	<b>AREA (SY)</b>
RT LANE	553+20	--	557+00	380	7	2,660.00	296
RT LANE	560+62	--	562+59	197	7	1,379.00	153
RT LANE	573+09	--	575+95	286	7	2,002.00	222
LT LANE	600+82	--	601+58	76	7	532.00	59
LT LANE	602+90	--	603+87	97	7	679.00	75
RT LANE	605+82	--	607+89	207	14	2,898.00	322
LT LANE	608+02	--	609+10	108	7	756.00	84
RT LANE	613+24	--	617+16	392	14	5,488.00	610
RT LANE	643+48	--	644+00	52	7	364.00	40
RT LANE	644+07	--	646+00	193	7	1,351.00	150
LT LANE	724+07	--	727+44	337	7	2,359.00	262
RT LANE	735+49	--	736+78	129	7	903.00	100
RT LANE	739+28	--	740+64	136	7	952.00	106
RT LANE	743+38	--	744+37	99	7	693.00	77
LT LANE	744+40	--	746+04	164	7	1,148.00	128
RT LANE	744+85	--	745+66	81	7	567.00	63
RT LANE	746+51	--	747+48	97	7	679.00	75
RT LANE	751+41	--	751+69	28	7	196.00	22
LT LANE	751+99	--	753+11	112	7	784.00	87
LT LANE	771+35	--	773+48	213	7	1,491.00	166
RT LANE	773+80	--	775+00	120	7	840.00	93
RT LANE	775+38	--	776+28	90	7	630.00	70
RT LANE	777+73	--	778+51	78	7	546.00	61
LT LANE	786+74	--	786+99	25	7	175.00	19
LT LANE	787+06	--	787+22	16	7	112.00	12
<b>TOTAL</b>							<b>3354</b>

MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL							
202-B005 REMOVAL OF ASPHALT PAVEMENT ALL DEPTH							
DRIVEWAY PADS NO. 1							
Station	Location	Width 1	Width 2	Length	Total (SF)	Total (Tons)	Remarks
537+04	LT	18	12	5	75.00	8.33	
541+82	LT	23	16	6	117.00	13.00	
541+82	RT	45	27	5	180.00	20.00	
542+30	RT	25	16	5	102.50	11.39	
543+20	RT	23	17	6	120.00	13.33	
546+39	RT	28	22	6	150.00	16.67	
551+73	RT	30	22	6	156.00	17.33	
555+30	LT	38	28	6	198.00	22.00	
557+17	LT	38	28	6	198.00	22.00	
559+17	LT	40	24	6	192.00	21.33	
561+20	LT	25	16	5	102.50	11.39	
562+13	LT	20	16	6	108.00	12.00	
562+65	RT	35	22	5	142.50	15.83	
564+95	RT	21	13	5	85.00	9.44	
567+80	RT	28	23	5	127.50	14.17	
566+30	LT	18	15	5	82.50	9.17	
569+75	RT	27	18	5	112.50	12.50	
571+65	LT	30	22	5	130.00	14.44	
574+45	LT	43	38	6	243.00	27.00	
576+15	RT	40	35	6	225.00	25.00	
576+95	LT	23	15	5	95.00	10.56	
581+25	LT	28	20	6	144.00	16.00	
582+85	RT	37	20	6	171.00	19.00	
590+55	LT	24	21	6	135.00	15.00	
592+25	RT	46	25	6	213.00	23.67	
594+65	LT	23	15	5	95.00	10.56	
598+50	LT	22	15	5	92.50	10.28	
600+05	RT	26	20	5	5.00	0.56	
620+25	LT	37	24	5	152.50	16.94	
621+95	LT	37	24	5	152.50	16.94	
625+80	LT	63	45	10	540.00	60.00	
626+65	RT	40	27	11	368.50	40.94	
662+65	LT	73	37	22	1,210.00	134.44	
663+85	LT	22	19	12	246.00	27.33	
665+50	RT	50	35	10	425.00	47.22	
668+15	LT	40	30	9	315.00	35.00	
668+60	LT	25	20	6	135.00	15.00	
672+80	LT	25	16	5	102.50	11.39	
673+65	RT	25	20	5	112.50	12.50	
676+00	RT	50	40	13	585.00	65.00	
676+50	LT	50	32	9	369.00	41.00	
677+20	RT	21	16	6	111.00	12.33	
678+15	LT	36	28	5	160.00	17.78	
680+60	LT	50	40	6	270.00	30.00	
686+85	RT	50	37	11	478.50	53.17	
686+85	LT	50	37	11	478.50	53.17	
706+00	RT	80	75	9	697.50	77.50	
731+00	RT	20	15	5	87.50	9.72	
731+00	LT	22	15	5	92.50	10.28	
730+25	LT	32	22	7	189.00	21.00	
733+20	LT	32	26	4	116.00	12.89	
741+10	RT	20	15	5	87.50	9.72	
744+00	LT	37	26	6	189.00	21.00	
749+75	RT	63	36	7	346.50	38.50	
754+75	RT	40	26	6	198.00	22.00	
756+30	RT	30	20	5	125.00	13.89	
758+50	LT	34	22	9	252.00	28.00	
758+90	RT	26	17	5	107.50	11.94	
760+05	RT	44	20	6	192.00	21.33	
763+12	RT	40	24	5	160.00	17.78	
765+35	LT	82	58	8	560.00	62.22	
767+80	LT	30	16	6	138.00	15.33	
					<b>Total</b>	<b>1,505.22</b>	

\*Area calculations collected by Field Measurement



<b>MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL</b>							
<b>202-B005 REMOVAL OF ASPHALT PAVEMENT ALL DEPTH</b>							
<b>GUARDRAIL PADS</b>							
<u>Bridge No.</u>	<u>Location</u>	<u>Quadrant</u>	<u>Width 1</u>	<u>Width 2</u>	<u>Length 1</u>	<u>Total (SF)</u>	<u>Total (SY)</u>
13.2	RT	SE	6.5	6.5	182.0	1,183.00	131.44
13.2	LT	SW	7.5	8.0	80.0	620.00	68.89
13.2	RT	NE	8.0	10.0	250.0	2,250.00	250.00
13.2	LT	NW	7.0	7.0	200.0	1,400.00	155.56
13.7	RT	SE	8.0	7.0	215.0	1,612.50	179.17
13.7	LT	SW	10.0	6.0	215.0	1,720.00	191.11
13.7	RT	NE	6.5	9.0	186.0	1,441.50	160.17
13.7	LT	NW	6.5	7.5	211.0	1,477.00	164.11
						<b>Total</b>	<b>1,300.44</b>

\*Area calculations collected by Field Measurement

<b>MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL</b>						
<b>202-B006 REMOVAL OF TRAFFIC STRIPE</b>						
<b>BRIDGES</b>						
<b>STATION TO STATION</b>			<b>COLD PLASTIC</b>			<b>REMARKS</b>
			<b>CONTINUOUS</b>		<b>SKIP</b>	
			<b>WHITE</b>	<b>YELLOW</b>	<b>YELLOW</b>	
<b>640+63</b>	<b>--</b>	<b>642+54</b>	<b>382</b>	<b>382</b>	<b>0</b>	<b>Bridge 12.3</b>
<b>650+13</b>	<b>--</b>	<b>651+17</b>	<b>208</b>	<b>208</b>	<b>0</b>	<b>Bridge 12.6</b>
<b>682+98</b>	<b>--</b>	<b>684+58</b>	<b>320</b>	<b>320</b>	<b>0</b>	<b>Bridge 13.2</b>
<b>707+88</b>	<b>--</b>	<b>712+11</b>	<b>846</b>	<b>846</b>	<b>0</b>	<b>Bridge 13.7</b>
<b>799+77</b>	<b>--</b>	<b>804+57</b>	<b>960</b>	<b>960</b>	<b>0</b>	<b>Bridge 15.5</b>
<b>TOTAL</b>			<b>2716 LF</b>	<b>2716 LF</b>	<b>0 LF</b>	
			<b>5432 LF</b>			

MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL										
406-A001 COLD MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS										
GUARDRAIL PADS										
<u>Bridge No.</u>	<u>Location</u>	<u>Quadrant</u>	<u>Width 1</u>	<u>Width 2</u>	<u>Length 1</u>	<u>Length 2</u>	<u>Total (SF)</u>	<u>Total (Tons)</u>	<u>Remarks</u>	
12.3	RT	SE	--	--	--	--	3,433.00	381.44	GUARDRAIL PADS WILL BE MILLED UP TO GUARDRAIL	
12.3	LT	SW	--	--	--	--	1,791.00	199.00	GUARDRAIL PADS WILL BE MILLED UP TO GUARDRAIL	
12.3	RT	NE	--	--	--	--	1,878.00	208.67	GUARDRAIL PADS WILL BE MILLED UP TO GUARDRAIL	
12.3	LT	NW	--	--	--	--	3,227.00	358.56	GUARDRAIL PADS WILL BE MILLED UP TO GUARDRAIL	
12.6	RT	SE	--	--	--	--	3,576.00	397.33	GUARDRAIL PADS WILL BE MILLED UP TO GUARDRAIL	
12.6	LT	SW	--	--	--	--	1,852.00	205.78	GUARDRAIL PADS WILL BE MILLED UP TO GUARDRAIL	
12.6	RT	NE	--	--	--	--	2,005.00	222.78	GUARDRAIL PADS WILL BE MILLED UP TO GUARDRAIL	
12.6	LT	NW	--	--	--	--	2,987.50	331.94	GUARDRAIL PADS WILL BE MILLED UP TO GUARDRAIL	
							<b>Total</b>	<b>2,305.50</b>		

\*Area calculations collected by Field Measurement



MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL										
HMA/WMA MT, 12.5mm Mixture										
Guardrail Pads										
Bridge No.	Location	Quadrant	Width 1	Width 2	Length 1	Length 2	Total (SF)	Depth (in.)	Total (Tons)	Remarks
12.3	RT	SE	--	--	--	--	915.00	2.000	12.01	Additional asphalt will be added to increase taper areas field measured
12.3	LT	SW	--	--	--	--	837.00	2.000	10.99	Additional asphalt will be added to increase taper areas field measured
12.3	RT	NE	--	--	--	--	942.00	2.000	12.36	Additional asphalt will be added to increase taper areas field measured
12.3	LT	NW	--	--	--	--	1,050.00	2.000	13.78	Additional asphalt will be added to increase taper areas field measured
12.6	RT	SE	--	--	--	--	1,035.00	2.000	13.58	Additional asphalt will be added to increase taper areas field measured
12.6	LT	SW	--	--	--	--	815.00	2.000	10.70	Additional asphalt will be added to increase taper areas field measured
12.6	RT	NE	--	--	--	--	1,045.00	2.000	13.72	Additional asphalt will be added to increase taper areas field measured
12.6	LT	NW	--	--	--	--	915.00	2.000	12.01	Additional asphalt will be added to increase taper areas field measured
13.2	RT	SE	8	15	212.5	150	3,568.75	2.000	46.84	
13.2	LT	SW	10	12	125.0	150	2,275.00	2.000	29.86	
13.2	RT	NE	9	13	212.5	150	3,312.50	2.000	43.48	
13.2	LT	NW	8	15	125.0	150	2,562.50	2.000	33.63	
13.7	RT	SE	10	15	212.5	150	3,781.25	2.000	49.63	
13.7	LT	SW	8	13	125.0	150	2,287.50	2.000	30.02	
13.7	RT	NE	8	13	212.5	150	3,206.25	2.000	42.08	
13.7	LT	NW	8	15	125.0	150	2,562.50	2.000	33.63	
15.5	RT	SE	7	12	212.5	150	2,918.75	2.000	38.31	
15.5	LT	SW	6	12	125.0	150	2,025.00	2.000	26.58	
15.5	RT	NE	6	12	212.5	150	2,025.00	2.000	26.58	
15.5	LT	NW	7	12	212.5	150	2,918.75	2.000	38.31	
							<b>Total</b>		<b>538.10</b>	

PCF = 150

\*Area calculations collected by Field Measurement

MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL							
HMA/WMA MT, 12.5mm Mixture, Leveling							
FAILED AREA LOCATIONS							
LOCATION	STA.	TO	STA.	LENGTH (ft)	WIDTH (ft)	AREA (SF)	ASPHALT LEVELING (tons)
RT LANE	553+20	--	557+00	380	7	2,660.00	266.00
RT LANE	560+62	--	562+59	197	7	1,379.00	137.90
RT LANE	573+09	--	575+95	286	7	2,002.00	200.20
LT LANE	600+82	--	601+58	76	7	532.00	53.20
LT LANE	602+90	--	603+87	97	7	679.00	67.90
RT LANE	605+82	--	607+89	207	14	2,898.00	289.80
LT LANE	608+02	--	609+10	108	7	756.00	75.60
RT LANE	613+24	--	617+16	392	14	5,488.00	548.80
RT LANE	643+48	--	644+00	52	7	364.00	36.40
RT LANE	644+07	--	646+00	193	7	1,351.00	135.10
LT LANE	724+07	--	727+44	337	7	2,359.00	235.90
RT LANE	735+49	--	736+78	129	7	903.00	90.30
RT LANE	739+28	--	740+64	136	7	952.00	95.20
RT LANE	743+38	--	744+37	99	7	693.00	69.30
LT LANE	744+40	--	746+04	164	7	1,148.00	114.80
RT LANE	744+85	--	745+66	81	7	567.00	56.70
RT LANE	746+51	--	747+48	97	7	679.00	67.90
RT LANE	751+41	--	751+69	28	7	196.00	19.60
LT LANE	751+99	--	753+11	112	7	784.00	78.40
LT LANE	771+35	--	773+48	213	7	1,491.00	149.10
RT LANE	773+80	--	775+00	120	7	840.00	84.00
RT LANE	775+38	--	776+28	90	7	630.00	63.00
RT LANE	777+73	--	778+51	78	7	546.00	54.60
LT LANE	786+74	--	786+99	25	7	175.00	17.50
LT LANE	787+06	--	787+22	16	7	112.00	11.20
<b>TOTAL</b>							<b>3018.40</b>

ASPHALT  
 DEPTH = 16 in.  
 PCF = 150 PCF

MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL							
Bridge Joint Items							
STA.	JOINT LENGTH (ft)	413-B001 CLEANING AND SEALING JOINTS (LF)	907-823-B001 SAW CUT, TYPE I (LF)	808-A001 JOINT PREPARATION (LF)	907-413-E001 SAWING AND SEALING TRANSVERSE JOINTS IN ASPHALT PAVEMENT (LF)	907-823-A001 PREFORMED JOINT SEAL, TYPE I (LF)	Remarks
640+82	47	49	--	--	--	--	BRIDGE 12.3 SOUTH END
640+83	47	--	94	47	--	49	BRIDGE 12.3 SOUTH END
641+32	44	--	88	44	--	46	BRIDGE 12.3 INTERMEDIATE JOINT
641+82	44	--	88	44	--	46	BRIDGE 12.3 INTERMEDIATE JOINT
642+34	47	--	94	47	--	49	BRIDGE 12.3 NORTH END
642+35	47	49	--	--	--	--	BRIDGE 12.3 NORTH END
650+32	47	49	--	--	--	--	BRIDGE 12.6 SOUTH END
650+33	47	--	94	47	--	49	BRIDGE 12.6 SOUTH END
650+73	44	--	88	44	--	46	BRIDGE 12.6 INTERMEDIATE JOINT
651+12	44	--	88	44	--	46	BRIDGE 12.6 INTERMEDIATE JOINT
651+51	47	--	94	47	--	49	BRIDGE 12.6 NORTH END
651+52	47	49	--	--	--	--	BRIDGE 12.6 NORTH END
683+17	41	43	--	--	--	--	BRIDGE 13.2 SOUTH END
683+18	41	--	82	41	--	43	BRIDGE 13.2 SOUTH END
684+38	41	--	82	41	--	43	BRIDGE 13.2 NORTH END
684+39	41	43	--	--	--	--	BRIDGE 13.2 NORTH END
708+29	48	50	--	--	--	--	BRIDGE 13.7 SOUTH END
708+30	48	--	96	48	--	50	BRIDGE 13.7 SOUTH END
709+45	48	--	96	48	--	50	BRIDGE 13.7 INTERMEDIATE JOINT
710+37	48	--	96	48	--	50	BRIDGE 13.7 INTERMEDIATE JOINT
711+91	48	--	96	48	--	50	BRIDGE 13.7 NORTH END
711+92	48	50	--	--	--	--	BRIDGE 13.7 NORTH END
799+77	26	--	--	--	28	--	BRIDGE 15.5 BRIDGE END PAVEMENT/ASPHALT JOINT SOUTH
799+97	37	39	--	--	--	--	BRIDGE 15.5 BRIDGE END SOUTH
804+37	37	39	--	--	--	--	BRIDGE 15.5 BRIDGE END NORTH
804+57	26	--	--	--	28	--	BRIDGE 15.5 BRIDGE END PAVEMENT/ASPHALT JOINT NORTH
<b>TOTAL</b>		<b>460</b>	<b>1276</b>	<b>638</b>	<b>56</b>	<b>666</b>	

MP-5021-62(010) 305111/301000 SR 21 MILL & OVERLAY FROM STEELE TO SEBASTOPOOL												
GUARDRAIL												
STATION	LOCATION	W-BEAM	TERMINAL END SECTION		BRIDGE END SECTIONS			GUARD DELINEATORS	Removal of Guardrail		REMARKS	
			FLARED	NON-FLARED	TYPE I RUBRAIL ONLY	TYPE G MODIFIED	TYPE H		EACH	EACH		
640+83	RT LANE				1			WHITE			Bridge 12.3 SE	
640+83	LT LANE				1						Bridge 12.3 SW	
642+34	RT LANE				1						Bridge 12.3 NE	
642+34	LT LANE				1						Bridge 12.3 NW	
650+33	RT LANE				1						Bridge 12.6 SE	
650+33	LT LANE				1						Bridge 12.6 SW	
651+51	RT LANE		1		1				37.5		Bridge 12.6 NE	
651+51	LT LANE				1						Bridge 12.6 NW	
683+18	RT LANE	150.00	1				1	11		205	Bridge 13.2 SE	
683+18	LT LANE	62.50	1				1	5		105	Bridge 13.2 SW	
684+38	RT LANE	62.50	1				1	5		105	Bridge 13.2 NE	
684+38	LT LANE	150.00	1				1	11		205	Bridge 13.2 NW	
708+08	RT LANE	150.00	1				1	11		202	Bridge 13.7 SE	
708+08	LT LANE	62.50	1				1	5		102	Bridge 13.7 SW	
711+91	RT LANE	62.50	1				1	5		102	Bridge 13.7 NE	
711+91	LT LANE	150.00	1				1	11		202	Bridge 13.7 NW	
799+97	RT LANE	150.00	1				1	11			Bridge 15.5 SE	
799+97	LT LANE	62.50	1				1	5			Bridge 15.5 SW	
804+37	LT LANE	62.50	1				1	5			Bridge 15.5 NE	
804+37	RT LANE	150.00	1				1	11			Bridge 15.5 NW	
		LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH		
		1275.00	13	0	8	4	8	96		1265.5		

<b>MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL</b>					
<b>619-D Standard Roadside Construction Signs (10 Sq. Ft. or More)</b>					
<b>Station</b>	<b>Location</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Remarks</b>
	RT	G20-1	10	SF	500' SOUTH of BOP SECTION 1
537+00	RT	R16-3	10	SF	NORTHBOUND
551+75	RT	W20-1	16	SF	WALTERS DR
579+74	LT	R16-3	10	SF	SOUTHBOUND
642+60	RT	R16-3	10	SF	NORTHBOUND
659+10	RT	W20-1	16	SF	PINEBLUFF RD
685+34	LT	R16-3	10	SF	SOUTHBOUND
748+20	LT	R16-3	10	SF	NORTHBOUND
760+75	RT	W20-1	16	SF	ANTHONY LN
760+84	LT	W20-1	16	SF	D. ABLE RD
777+70	LT	W20-1	16	SF	FISHER RD
779+40	RT	W20-1	16	SF	HAYS RD
790+94	LT	R16-3	10	SF	SOUTHBOUND
829+73	LT	W20-1	16	SF	CUTOFF RD
849+80	LT	W20-1	16	SF	DAMASCUS RD
884+00	LT	W20-1	16	SF	A.C. WALTERS RD
896+54	LT	R16-3	10	SF	SOUTHBOUND
	LT	G20-1	10	SF	500' NORTH of EOP
		<b>Total</b>	<b>234</b>	<b>SF</b>	

<b>MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL</b>					
<b>619-G Type III Barricades Double-Faced</b>					
<b>Location</b>	<b>Station</b>	<b>Quantity</b>	<b>Unit</b>	<b>Description</b>	
RT	500' SOUTH OF BOP	6	LF		
LT	500' SOUTH OF BOP	6	LF		
RT	500' NORTH OF EOP	6	LF		
LT	500' NORTH OF EOP	6	LF		
		<b>Total</b>	<b>24</b>	<b>LF</b>	

<b>MP-5021-62(010) 305111/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL</b>					
<b>619-D Standard Roadside Construction Signs (Less than 10 Sq. Ft. ) 1</b>					
<b>Station</b>	<b>Location</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Remarks</b>
	LT	G20-2A	8	SF	500' SOUTH OF BOP
536+00	RT	R4-1	5	SF	NORTHBOUND
826+97	LT	W14-3	5.56	SF	NORTHBOUND
543+50	RT	R4-1	5	SF	NORTHBOUND
551+00	RT	R4-1	5	SF	NORTHBOUND
558+50	RT	R4-1	5	SF	NORTHBOUND
566+00	RT	R4-1	5	SF	NORTHBOUND
573+50	RT	R4-1	5	SF	NORTHBOUND
581+00	RT	R4-1	5	SF	NORTHBOUND
588+50	RT	R4-1	5	SF	NORTHBOUND
596+00	RT	R4-1	5	SF	NORTHBOUND
603+50	RT	R4-1	5	SF	NORTHBOUND
611+00	RT	R4-1	5	SF	NORTHBOUND
618+50	RT	R4-1	5	SF	NORTHBOUND
626+00	RT	R4-1	5	SF	NORTHBOUND
633+50	RT	R4-1	5	SF	NORTHBOUND
641+00	RT	R4-1	5	SF	NORTHBOUND
648+50	RT	R4-1	5	SF	NORTHBOUND
656+00	RT	R4-1	5	SF	NORTHBOUND
663+50	RT	R4-1	5	SF	NORTHBOUND
671+00	RT	R4-1	5	SF	NORTHBOUND
675+02	RT	R4-2	5	SF	NORTHBOUND
693+30	RT	R4-1	5	SF	NORTHBOUND
693+30	LT	W14-3	5.56	SF	NORTHBOUND
700+80	RT	R4-1	5	SF	NORTHBOUND
708+30	RT	R4-1	5	SF	NORTHBOUND
713+50	RT	R4-2	5	SF	NORTHBOUND
726+72	RT	R4-1	5	SF	NORTHBOUND
726+72	LT	W14-3	5.56	SF	NORTHBOUND
734+22	RT	R4-1	5	SF	NORTHBOUND
741+72	RT	R4-1	5	SF	NORTHBOUND
749+22	RT	R4-1	5	SF	NORTHBOUND
756+72	RT	R4-1	5	SF	NORTHBOUND
764+22	RT	R4-1	5	SF	NORTHBOUND
771+72	RT	R4-1	5	SF	NORTHBOUND
779+22	RT	R4-1	5	SF	NORTHBOUND
786+72	RT	R4-1	5	SF	NORTHBOUND
792+48	RT	R4-2	5	SF	NORTHBOUND
818+15	RT	R4-1	5	SF	NORTHBOUND
818+15	LT	W14-3	5.56	SF	NORTHBOUND
825+65	RT	R4-1	5	SF	NORTHBOUND
833+15	RT	R4-1	5	SF	NORTHBOUND
840+65	RT	R4-1	5	SF	NORTHBOUND
848+15	RT	R4-1	5	SF	NORTHBOUND
852+29	RT	R4-2	5	SF	NORTHBOUND
868+60	RT	R4-1	5	SF	NORTHBOUND
868+60	LT	W14-3	5.56	SF	NORTHBOUND
876+10	RT	R4-1	5	SF	NORTHBOUND
883+60	RT	R4-1	5	SF	NORTHBOUND
891+10	RT	R4-1	5	SF	NORTHBOUND
898+60	RT	R4-1	5	SF	NORTHBOUND
898+60	LT	R4-1	5	SF	SOUTHBOUND
898+60	RT	W14-3	5.56	SF	SOUTHBOUND
891+10	LT	R4-1	5	SF	SOUTHBOUND
<b>PAGE TOTAL</b>			<b>276.360</b>		



MP-5021-62(010) 30511/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL					
619-D Standard Roadside Construction Signs (10 Sq. Ft. or More)					
Station	Location	Description	Quantity	Unit	Remarks
	RT	G20-1	10	SF	500' SOUTH of BOP SECTION 1
537+00	RT	R16-3	10	SF	NORTHBOUND
551+75	RT	W20-1	16	SF	WALTERS DR
579+74	LT	R16-3	10	SF	SOUTHBOUND
642+60	RT	R16-3	10	SF	NORTHBOUND
659+10	RT	W20-1	16	SF	PINEBLUFF RD
685+34	LT	R16-3	10	SF	SOUTHBOUND
748+20	LT	R16-3	10	SF	NORTHBOUND
760+75	RT	W20-1	16	SF	ANTHONY LN
760+84	LT	W20-1	16	SF	D. ABLE RD
777+70	LT	W20-1	16	SF	FISHER RD
779+40	RT	W20-1	16	SF	HAYS RD
790+94	LT	R16-3	10	SF	SOUTHBOUND
829+73	LT	W20-1	16	SF	CUTOFF RD
849+80	LT	W20-1	16	SF	DAMASCUS RD
884+00	LT	W20-1	16	SF	A.C. WALTERS RD
896+54	LT	R16-3	10	SF	SOUTHBOUND
	LT	G20-1	10	SF	500' NORTH of EOP
		<b>Total</b>	<b>234</b>	<b>SF</b>	

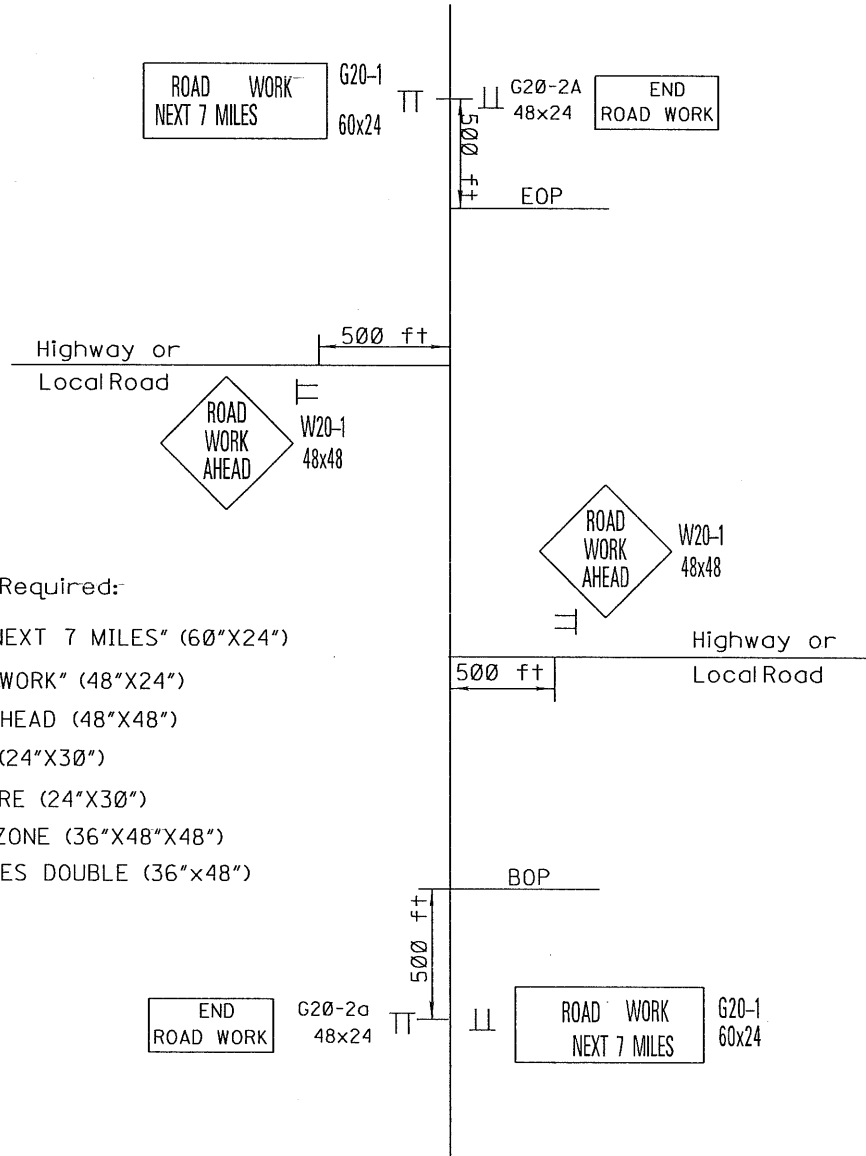
MP-5021-62(010) 30511/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL					
619-G Type III Barricades Double-Faced					
Location	Station	Quantity	Unit	Description	
RT	500' SOUTH OF BOP	6	LF		
LT	500' SOUTH OF BOP	6	LF		
RT	500' NORTH OF EOP	6	LF		
LT	500' NORTH OF EOP	6	LF		
	<b>Total</b>	<b>24</b>	<b>LF</b>		



MP-5021-62(010) 30511/301000 MILL AND OVERLAY FROM STEELE TO SEBASTOPOL					
619-D Standard Roadside Construction Signs (Less than 10 Sq. Ft.) 1					
Station	Location	Description	Quantity	Unit	Remarks
	LT	G20-2A	8	SF	500' SOUTH OF BOP
536+00	RT	R4-1	5	SF	NORTHBOUND
826+97	LT	W14-3	5.56	SF	NORTHBOUND
543+50	RT	R4-1	5	SF	NORTHBOUND
551+00	RT	R4-1	5	SF	NORTHBOUND
558+50	RT	R4-1	5	SF	NORTHBOUND
566+00	RT	R4-1	5	SF	NORTHBOUND
573+50	RT	R4-1	5	SF	NORTHBOUND
581+00	RT	R4-1	5	SF	NORTHBOUND
588+50	RT	R4-1	5	SF	NORTHBOUND
596+00	RT	R4-1	5	SF	NORTHBOUND
603+50	RT	R4-1	5	SF	NORTHBOUND
611+00	RT	R4-1	5	SF	NORTHBOUND
618+50	RT	R4-1	5	SF	NORTHBOUND
626+00	RT	R4-1	5	SF	NORTHBOUND
633+50	RT	R4-1	5	SF	NORTHBOUND
641+00	RT	R4-1	5	SF	NORTHBOUND
648+50	RT	R4-1	5	SF	NORTHBOUND
656+00	RT	R4-1	5	SF	NORTHBOUND
663+50	RT	R4-1	5	SF	NORTHBOUND
671+00	RT	R4-1	5	SF	NORTHBOUND
675+02	RT	R4-2	5	SF	NORTHBOUND
693+30	RT	R4-1	5	SF	NORTHBOUND
693+30	LT	W14-3	5.56	SF	NORTHBOUND
700+80	RT	R4-1	5	SF	NORTHBOUND
708+30	RT	R4-1	5	SF	NORTHBOUND
713+50	RT	R4-2	5	SF	NORTHBOUND
726+72	RT	R4-1	5	SF	NORTHBOUND
726+72	LT	W14-3	5.56	SF	NORTHBOUND
734+22	RT	R4-1	5	SF	NORTHBOUND
741+72	RT	R4-1	5	SF	NORTHBOUND
749+22	RT	R4-1	5	SF	NORTHBOUND
756+72	RT	R4-1	5	SF	NORTHBOUND
764+22	RT	R4-1	5	SF	NORTHBOUND
771+72	RT	R4-1	5	SF	NORTHBOUND
779+22	RT	R4-1	5	SF	NORTHBOUND
786+72	RT	R4-1	5	SF	NORTHBOUND
792+48	RT	R4-2	5	SF	NORTHBOUND
818+15	RT	R4-1	5	SF	NORTHBOUND
818+15	LT	W14-3	5.56	SF	NORTHBOUND
825+65	RT	R4-1	5	SF	NORTHBOUND
833+15	RT	R4-1	5	SF	NORTHBOUND
840+65	RT	R4-1	5	SF	NORTHBOUND
848+15	RT	R4-1	5	SF	NORTHBOUND
852+29	RT	R4-2	5	SF	NORTHBOUND
868+60	RT	R4-1	5	SF	NORTHBOUND
868+60	LT	W14-3	5.56	SF	NORTHBOUND
876+10	RT	R4-1	5	SF	NORTHBOUND
883+60	RT	R4-1	5	SF	NORTHBOUND
891+10	RT	R4-1	5	SF	NORTHBOUND
898+60	RT	R4-1	5	SF	NORTHBOUND
898+60	LT	R4-1	5	SF	SOUTHBOUND
898+60	RT	W14-3	5.56	SF	SOUTHBOUND
891+10	LT	R4-1	5	SF	SOUTHBOUND
PAGE TOTAL			276.360		



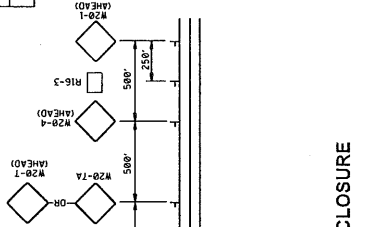
# MP-5021-62(010) SR 21 - SCOTT COUNTY TYPICAL CONSTRUCTION SIGNING DETAIL



Traffic Control Signs Required:-

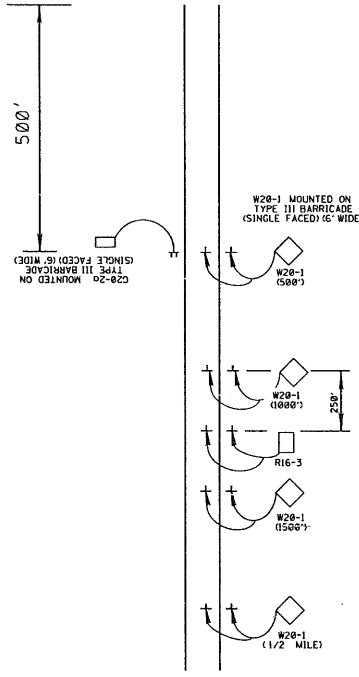
- 2 - G20-1 "ROAD WORK NEXT 7 MILES" (60"x24")
- 2 - G20-2a "END ROAD WORK" (48"x24")
- 9 - W20-1 ROAD WORK AHEAD (48"x48")
- 83 - R4-1 DO NOT PASS (24"x30")
- 8 - R4-2 PASS WITH CARE (24"x30")
- 10 - W14-3 NO PASSING ZONE (36"x48"x48")
- 7 - R16-3 SPEEDING FINES DOUBLE (36"x48")

- NOTES: ① One (1) W20-1 "ROAD WORK AHEAD" Sign is Required at each Local Road, Street or Highway Entering the Project.
- ② G20-1 and G20-2a signs mounted on Type III Double Faced Barricade.
- ③ R4-1 "DO NOT PASS", R4-2 "PASS WITH CARE", and W14-3 "NO PASSING ZONE" signs are required in accordance with Subsection 618.03.3 and as specified in the MUTCD. If No Passing zones are 1000 ft or more, install additional "DO NOT PASS" signs on maximum spacing of 750 ft. See Traffic Control Plan Detail Sheet.



2 LANE - 2 WAY ROADWAY - LANE CLOSURE

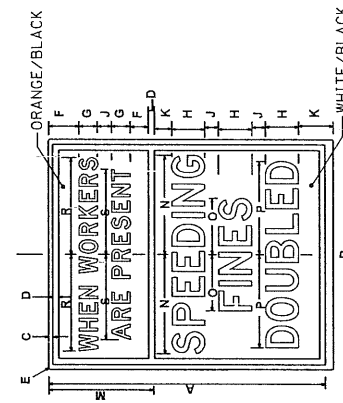
BEGINNING OF CONSTRUCTION



DIVIDED HIGHWAY  
(PROJECTS LESS THAN 1 MILE LENGTH)

NOTES

- ⊙ R16-3 SIGN TO BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- ⊙ R16-3 SIGN SHALL BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.



SIGN	DIMENSIONS (INCHES)												
A	B	C	D	E	F	G	H	I	J	K	L	M	N
60	48	3	1 1/4	3	3/4	1 1/8	7/8	1 1/4	3	3/4	1 1/8	7/8	1 1/4
ST.D.	J	K	M	N	O	P	R	S					
ST.D.	3	6%	22 1/4	21	10 1/4	19 1/4	28 1/4	18					

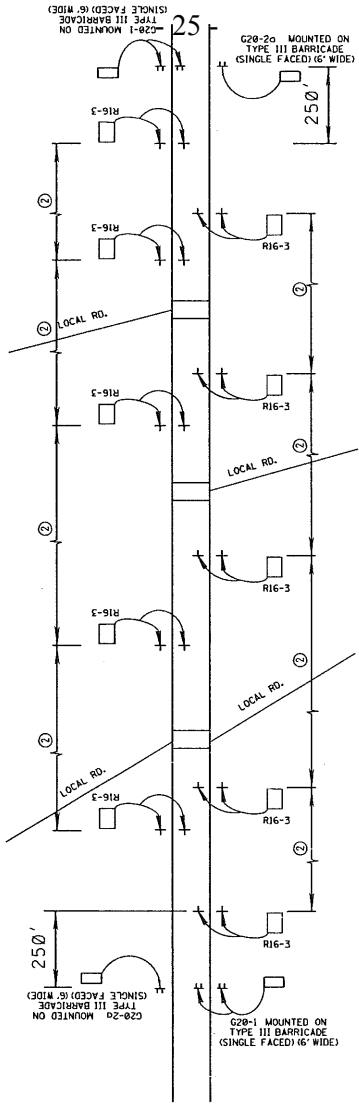
  

SIGN	DIMENSIONS (INCHES)												
A	B	C	D	E	F	G	H	I	J	K	L	M	N
48	36	3	1 1/4	3	3/4	1 1/8	7/8	1 1/4	3	3/4	1 1/8	7/8	1 1/4
ST.D.	J	K	M	N	O	P	R	S					
ST.D.	3	4 1/4	14 1/4	14	7 1/4	13 1/4	13 1/4	12					

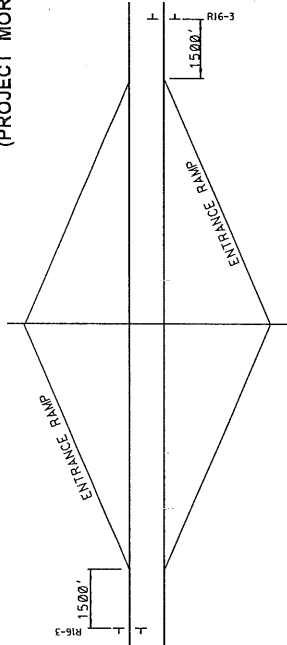
R16-3

Notice To Bidder No. 4950 - Cont'd

DIVIDED HIGHWAY SHOWN  
(2 LANE - 2 WAY ROADWAY SIMILAR)  
(PROJECT MORE THAN 1 MILE LENGTH)



INTERSTATE DETAIL



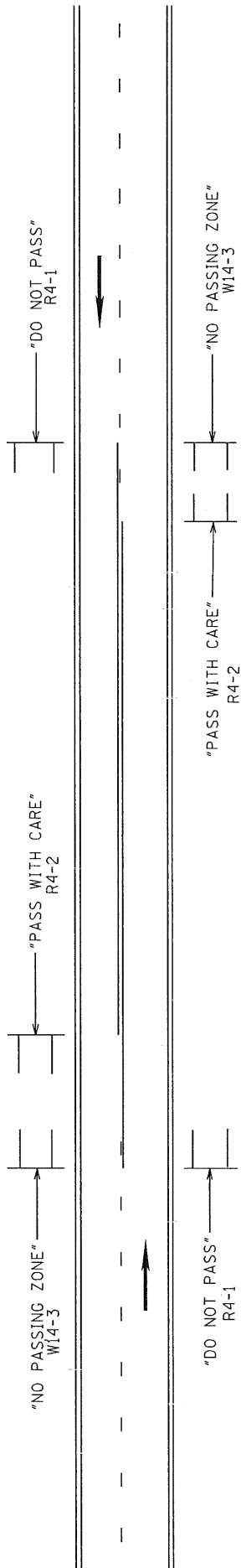
MISSISSIPPI DEPARTMENT OF TRANSPORTATION


LOCATION OF R16-3 SIGNS

DATE	REVISION	BY

FORM NO. NUMBER  
SHEET NUMBER  
DATE  
FILE NAME: SPEED SIGN DETAIL.CDD  
DESIGN TEAM  
CREATED: DATE 02/28/88

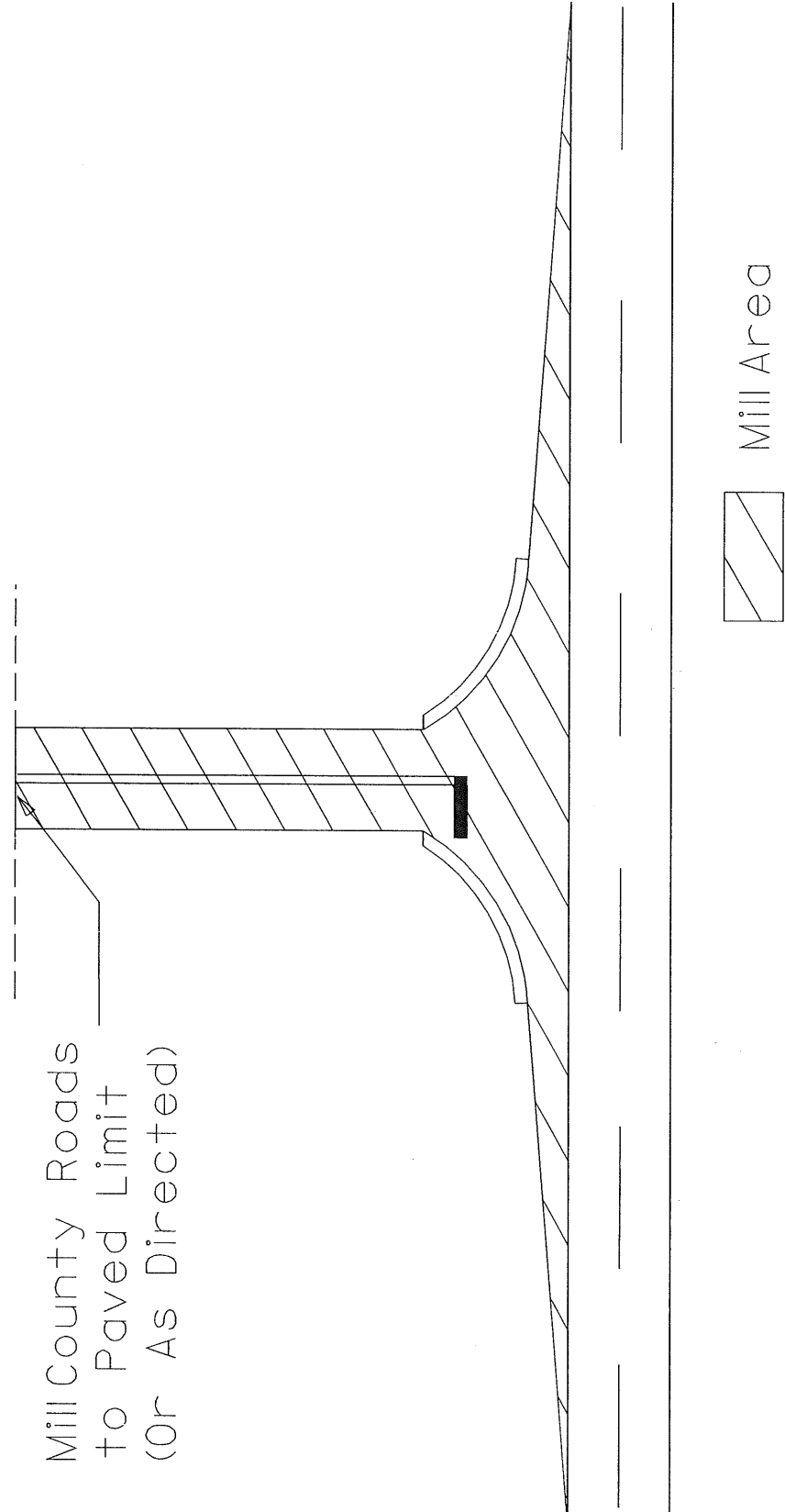
STATE	PROJECT NO.
MISS.	



MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN			PROJECT NUMBER
TRAFFIC CONTROL PLAN CONSTRUCTION SIGNAGE FOR PASSING/NO PASSING ZONES			W14-C-19
BY	REVISION	ISSUE DATE:	

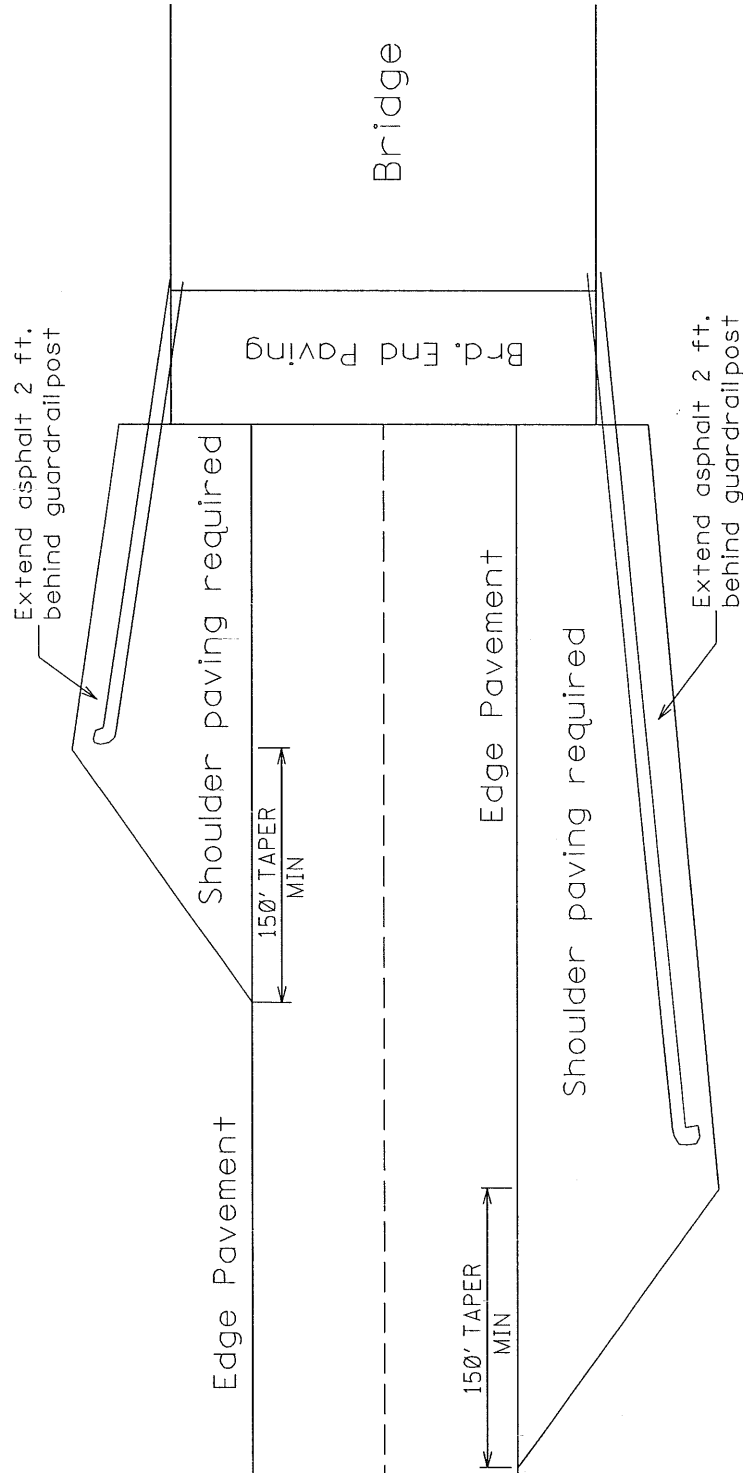
- ① THE R4-1, "DO NOT PASS", SHALL BE PLACED ON THE RIGHT SIDE OF THE TRAVELED LANE AT THE BEGINNING OF THE NO PASSING ZONE. ADDITIONAL R4-1 SIGNS SHALL BE PLACED RIGHT IN INCREMENTS OF 750' TO 1000' THROUGHOUT THE LENGTH OF THE NO PASSING ZONE.
- ② THE R4-2, "PASS WITH CARE", SHALL BE PLACED ON THE RIGHT SIDE OF THE TRAVELED LANE AT THE END OF THE NO PASSING ZONE & IN INCREMENTS OF 750' TO 1000' UNTIL THE NEXT NO PASSING ZONE.
- ③ THE W14-3, "NO PASSING ZONE", SHALL BE PLACED ON THE LEFT SIDE OF THE ROAD AT THE BEGINNING OF EACH NO PASSING ZONE.
- ④ THE R4-1, R4-2, AND W14-3 SIGNS ARE TO BE USED WHEN STANDARD PAVEMENT MARKINGS ARE NOT IN PLACE. SIGNS MAY ALSO BE USED TO EMPHASIZE PAVEMENT MARKINGS.

SR 21 - SCOTT COUNTY  
MP-5021-62(Ø1Ø)  
MILLING COUNTY ROADS

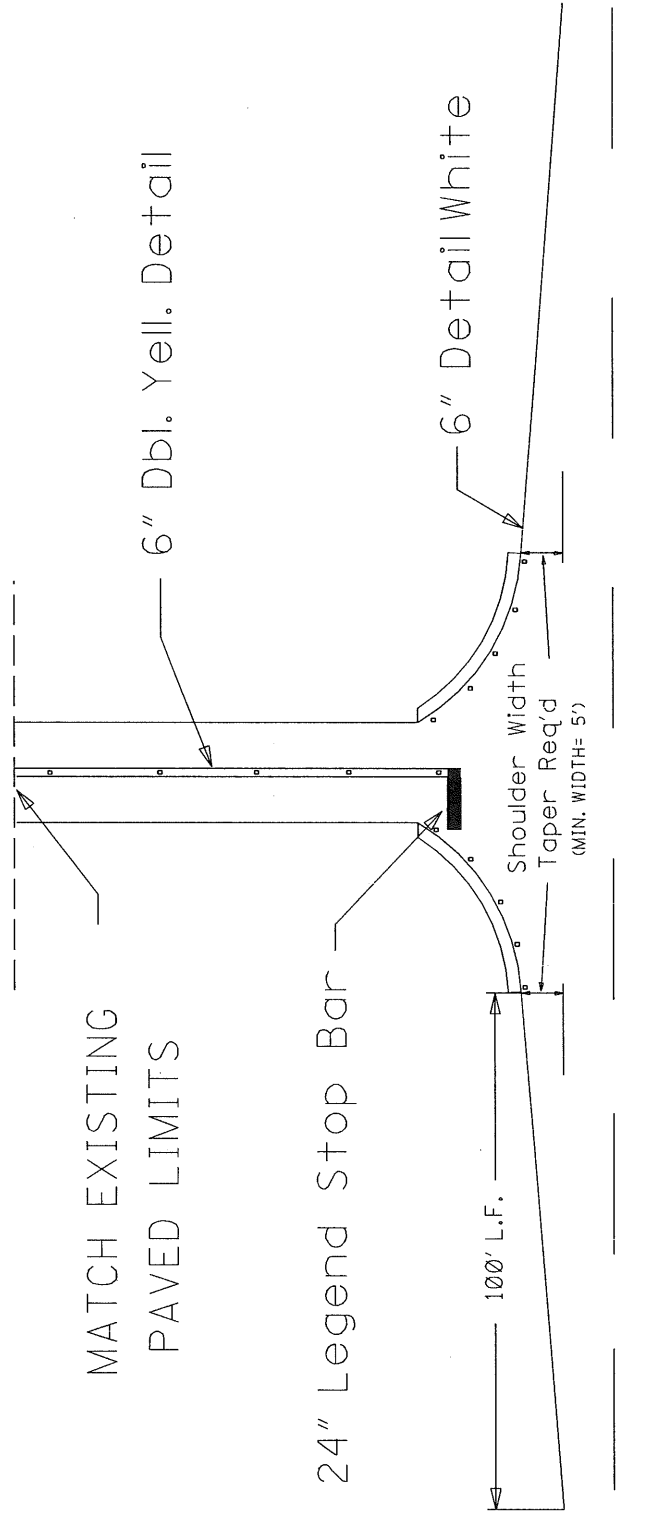


SR 21 - SCOTT COUNTY  
MP-5021-62(Ø10)

SHOULDER PAVING AT BRIDGE GUARDRAIL



SR21-SCOTT COUNTY  
 MP-5021-62(010)  
 COUNTY ROAD PAVING/STRIPING DETAIL

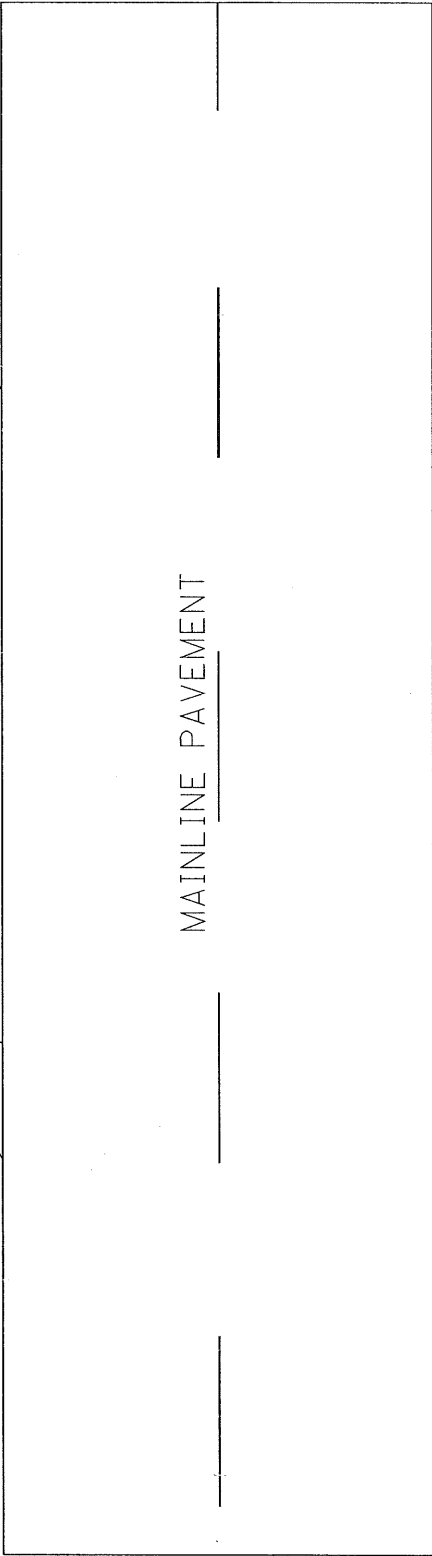
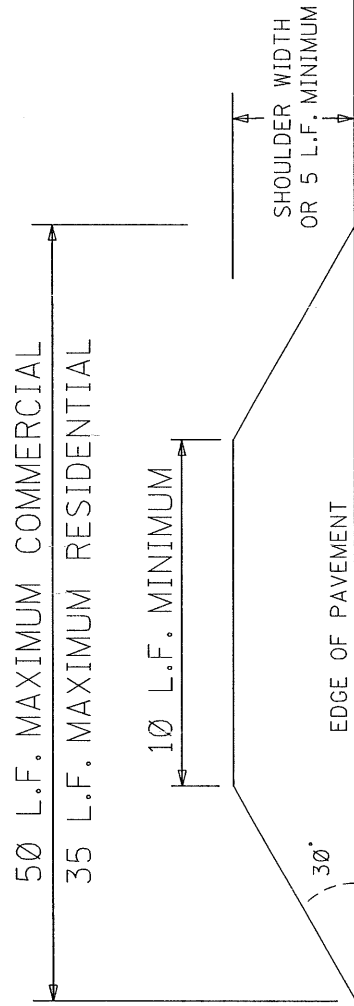


NOTE: 100' TAPERS TO BE CONSTRUCTED WHERE 5' SHOULDER WIDTH IS AVAILABLE AT THE BEGINNING OF LOCAL ROAD RADIUS.

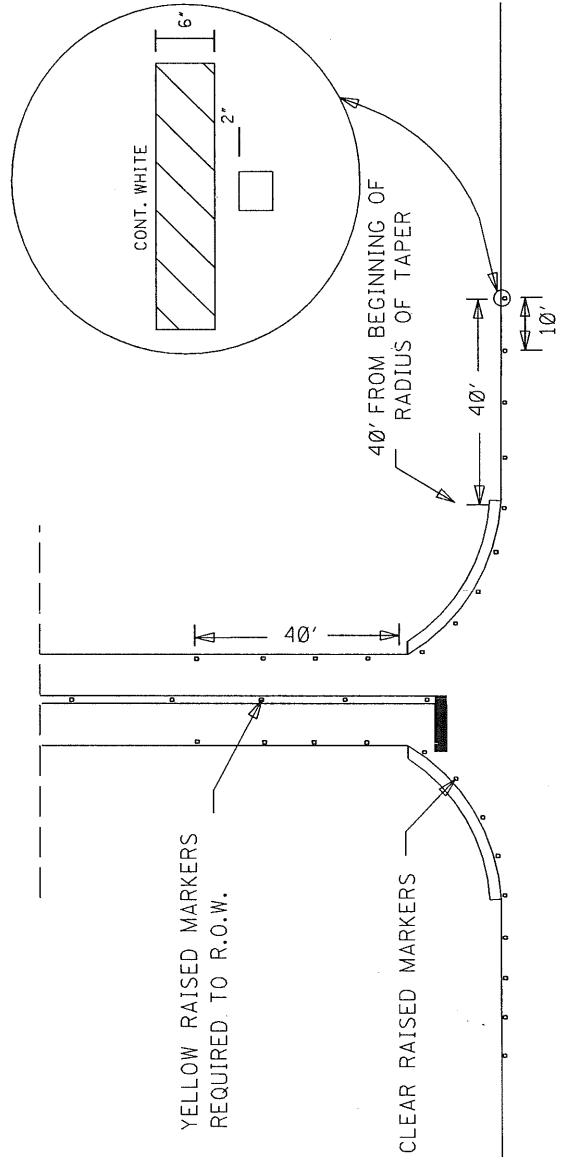
NOTE: ASPHALT PAVEMENT THICKNESS IN TAPER SHALL BE 6".



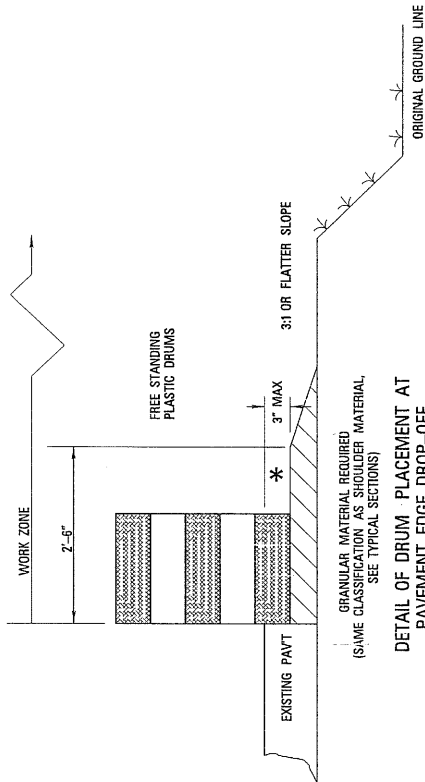
SR 21 - SCOTT COUNTY  
MP-5021-62(010)  
DRIVEWAY APRONS



SR21-SCOTT COUNTY  
 MP-5021-62(010)  
 RAISED PAVEMENT MARKERS  
 LOCAL ROADS



- NOTE 1. MARKERS SHALL BE PLACED AT 10 FEET INTERVALS.
- NOTE 2. MARKERS SHALL BE ORIENTED SO THEY ARE RETROREFLECTIVE TO MOTORISTS ON MAIN LINE.
- NOTE 3. A MINIMUM OF FIVE (5) MARKERS SHALL BE PLACED ALONG MAINLINE EDGE STRIPE.
- NOTE 4. MARKERS FOR COUNTY ROADS SHALL CONTINUE DOWN THE EDGE LINE A DISTANCE OF 40 FEET.



GRANULAR MATERIAL REQUIRED  
(SAME CLASSIFICATION AS SHOULDER MATERIAL,  
SEE TYPICAL SECTIONS)  
**DETAIL OF DRUM PLACEMENT AT  
PAVEMENT EDGE DROP-OFF**

**NOTES**

\* A. PAVEMENT EDGE DROP-OFF

- IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECTION REQUIRED. PLACE A SHOULDER WORK SIGN (W21-5) 500 FEET IN ADVANCE OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-9) AT THE BEGINNING AND THROUGHOUT THE WORK ZONE @ (750' ± 0.0').
- TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PLACE OF DRUMS, PANELS AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE M.U.T.C.D. (1/3 L, WHERE L IS THE TAPER LENGTH IN FEET).
- GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE WITH 3:1 OR FLATTER SLOPE NEEDED. IF THERE IS EIGHT (8) FEET OR MORE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THEN DRUMS, PANELS OR BARRICADES MAY BE USED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHOULD BE USED FOR OVERNIGHT INSTALLATIONS.
- FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (3) INCHES MAY BE PROTECTED WITH DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.
- LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

**B. DRUM SPACING**

- TANGENTS = 2 X S
- TAPERS = L / 3
- WHERE L = S X W
- L = TAPER LENGTH IN FEET
- S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
- W = WIDTH OF OFFSET IN FEET

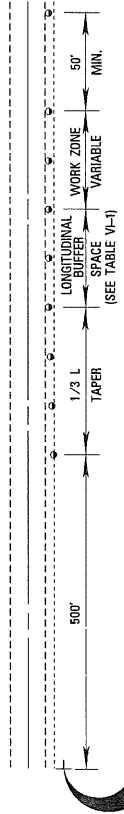
C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.

TABLE 1-1.1. DRUMS FOR LENGTH OF  
CONVENTIONAL SPACER SPACE

SPEED (MPH)	LENGTH (FEET)
15	25
20	35
25	45
30	55
35	65
40	75
45	85
50	100
55	110
60	120
65	130
70	140
75	150
80	160
85	170
90	180
95	190
100	200

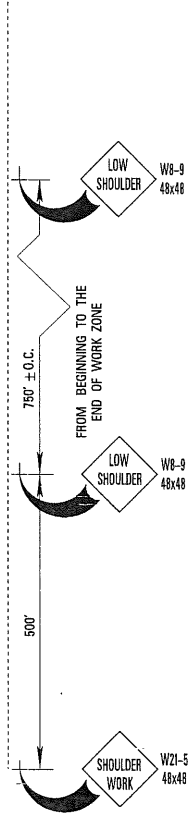
\* POSTED SPEED, OFF-PEAK 85 PERCENTILE SPEED  
BASED ON THE 85TH PERCENTILE OF THE ANTICIPATED  
OPERATING SPEED IN MPH.

PLASTIC DRUMS  
(SEE NOTE FOR SPACING)



**TYPICAL SHOULDER CLOSURE**

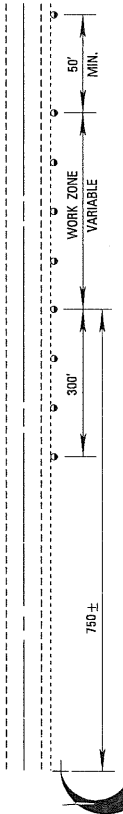
- TO BE USED WITH EIGHT (8) FOOT OR GREATER WIDTH IMPROVED SHOULDER.
- TO BE USED WHEN CONSTRUCTION VEHICLES (EQUIPMENT ENCROACHES ON OR WITHIN TWO (2) FEET OF THE SHOULDER BREAK



**TYPICAL SHOULDER WORK #1**

(SEE NOTE A-1 THIS SHEET)

PLASTIC DRUMS  
(SEE NOTE FOR SPACING)



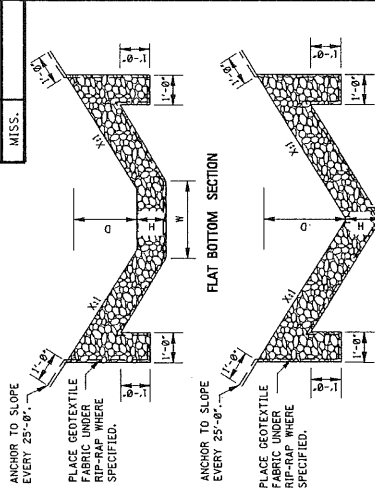
**TYPICAL SHOULDER WORK #2**

NOTE:  
WORK OUTSIDE THE (2) FOOT LIMIT AND WITHIN TEN (10) FEET OF THE SHOULDER BREAK MAY BE PROTECTED BY PLACING DRUMS ALONG THE SHOULDER EDGE, 300 FEET PRIOR TO AND 50 FEET BEYOND THE WORK AREA, ON SEE NOTE A-3 THIS SHEET.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL DETAILS**  
DRUM PLACEMENT  
AND  
SHOULDER CLOSURE

PROJECT NO.:  
COUNTY:  
FILE NAME: d:\GIS\Z\SHOULDER\_SURF.dwg  
SHEET NUMBER:  
DATE: 12-28-08  
REVISION:

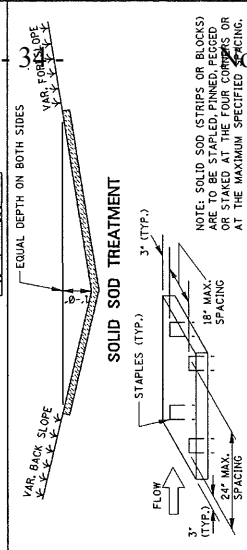




**"V" TYPE SECTION  
RIP-RAP TREATMENT**

NOTES:  
1. DIMENSIONS D, W AND X ARE VARIABLE AND ARE SHOWN ELSEWHERE ON THE PLANS.  
2. THE RIP-RAP SIZE AND MINIMUM DEPTH "H" FOR RIP-RAP TREATMENT ARE AS FOLLOWS.

RIP-RAP SIZE	MINIMUM DEPTH "H"
12"	100
18"	150
24"	200



**SOLID SOD TREATMENT**

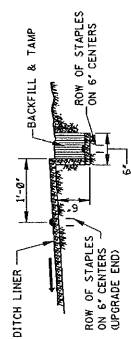
GENERAL NOTE:  
1. FOR LOCATION OF APPROPRIATE DITCH TREATMENTS, SEE PLAN SHEETS AS DENOTED BY THE FOLLOWING LEGEND OR AS DIRECTED BY THE ENGINEER.

- ██████████ DITCH LINER
- ██████████ SOLID SOD
- ██████████ CONCRETE PAVED DITCH
- ██████████ RIP-RAP

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
**DETAILS OF TYPICAL  
DITCH TREATMENTS**

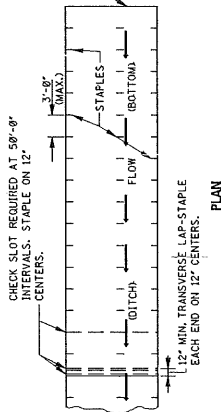
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

FORM NO. NUMBER SHEET SUBJECT  
FILE NAME: EROSION CONTROL DT-1-EDN DATE  
ISSUE NO. CREATED

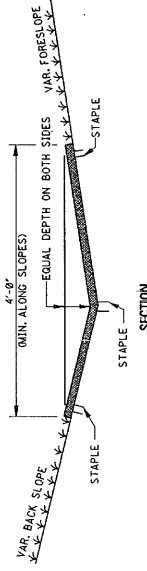


**ANCHOR TRENCH DETAIL**

NOTE: ANCHOR TRENCH REQUIRED AT THE BEGINNING AND ENDING OF EACH AREA TO BE COVERED, EXCEPT DOWNSTREAM END ADJOINING A STRUCTURE.

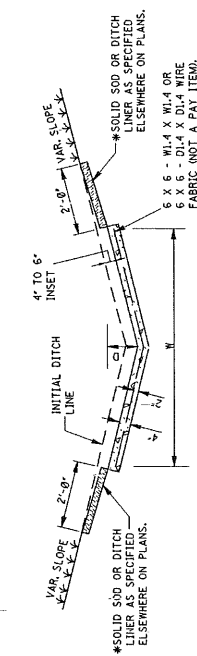


**PLAN**

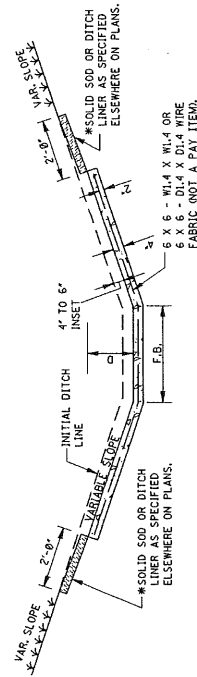


**DITCH LINER TREATMENT**

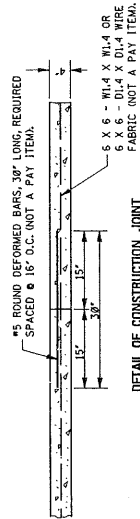
(EXCLUSION BLANKET, JUTE MESH OR EROSION CONTROL FABRIC)  
NOTE: DITCHES TREATED WITH DITCH LINER WILL BE VEGETATED PRIOR TO TREATMENT, UNLESS OTHERWISE INDICATED.



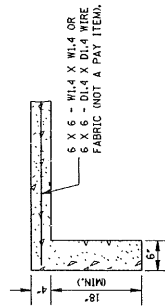
**"V" TYPE SECTION**



**FLAT BOTTOM SECTION**



**DETAIL OF CONSTRUCTION JOINT**



**DETAIL OF TOE WALL**

NOTE: TOE WALL REQUIRED UPSTREAM AND DOWNSTREAM.

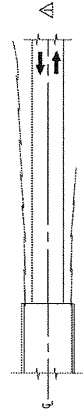
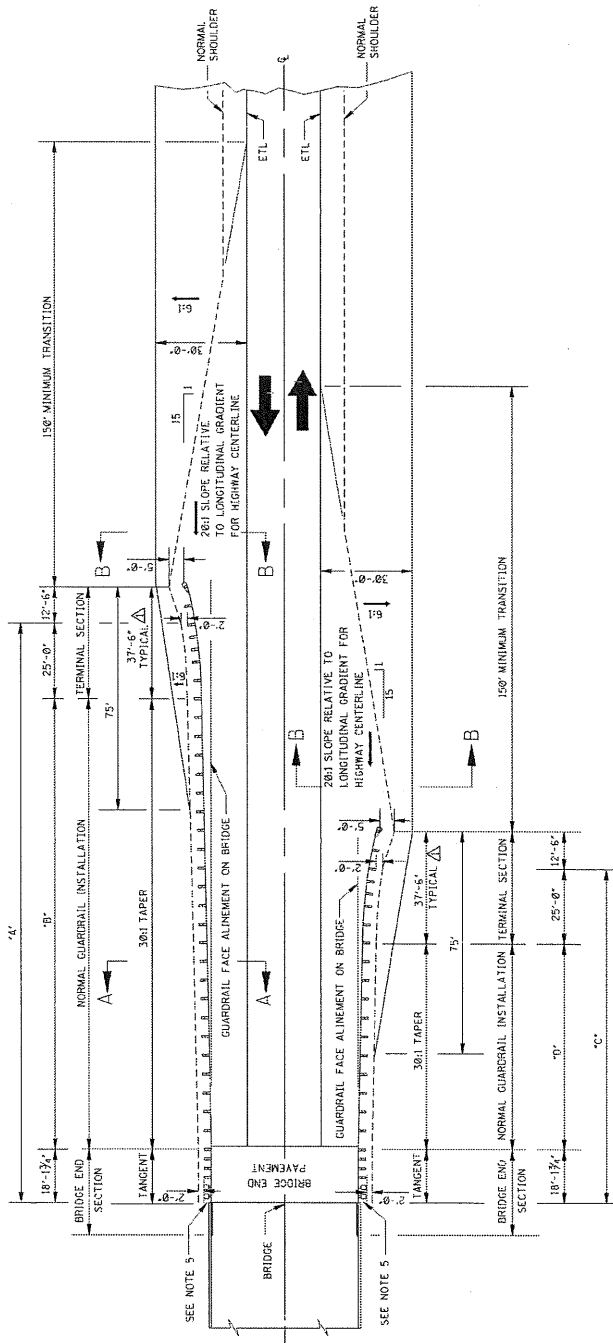
**CONCRETE PAVED DITCH**

- NOTES:
1. CONCRETE PAVED DITCHES SHALL BE GROOVED AT 20'-0" INTERVALS.
  2. THE GROOVES SHALL BE CUT TO A DEPTH OF NOT LESS THAN 1".
  3. DIMENSIONS D & W ARE AS FOLLOWS:  
 DIMENSIONAL = 6'  
 MINIMUM = 24'
  4. CHAIR SUPPORTS FOR THE WIRE MESH WILL NOT BE REQUIRED, HOWEVER, CHAIRS SHALL BE USED TO HOLD THE WIRE MESH IN PLACE AND WORKMANLIKE MANNER TO ENSURE THAT THE FINAL POSITION IS REASONABLY NEAR THE POSITION INDICATED.
  5. CENTER ROW OF STAPLES MAY BE OMITTED ON DITCH LINER.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
SECTION NUMBER 4-4	WORK NUMBER 4-4
DATE OCTOBER 1, 1998	ISSUE DATE OCTOBER 1, 1998

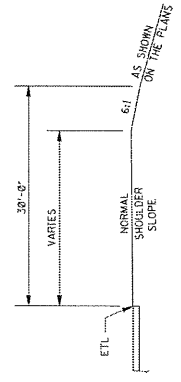
**GUARDRAIL:  
TYPICAL INSTALLATION  
AT BRIDGE APPROACHES  
FOR 2-LANE, 2-WAY  
HIGHWAY**



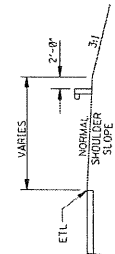
DETAIL OF GUARDRAIL SECTION LAPS

GENERAL NOTES:

- VALUES FOR "A", "B", "C" AND "D" WILL BE SHOWN ELSEWHERE ON THE PLANS.
- FOR DETAILS PERTAINING TO INSTALLATION OF THE TERMINAL SECTION, SEE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS OR ELSEWHERE ON PLANS.
- GUARDRAIL SECTIONS ARE TO BE LAPPED IN THE DIRECTION OF TRAFFIC APPROACHING THE BRIDGE.
- THE OVERALL LENGTH OF GUARDRAIL IS MEASURED FROM THE CONNECTING END ON THE BRIDGE.
- THE SHOULDER WIDTH AT THE BRIDGE END SHALL BE SUFFICIENTLY WIDE TO PROVIDE A MINIMUM OF 2'-0" BEHIND THE BACK OF POST BEFORE THE SLOPE BREAK (MINIMUM).
- TYPE DETAILS AND LIMITS OF GUARDRAIL BRIDGE END SECTION WILL BE SHOWN ELSEWHERE ON THE PLANS.



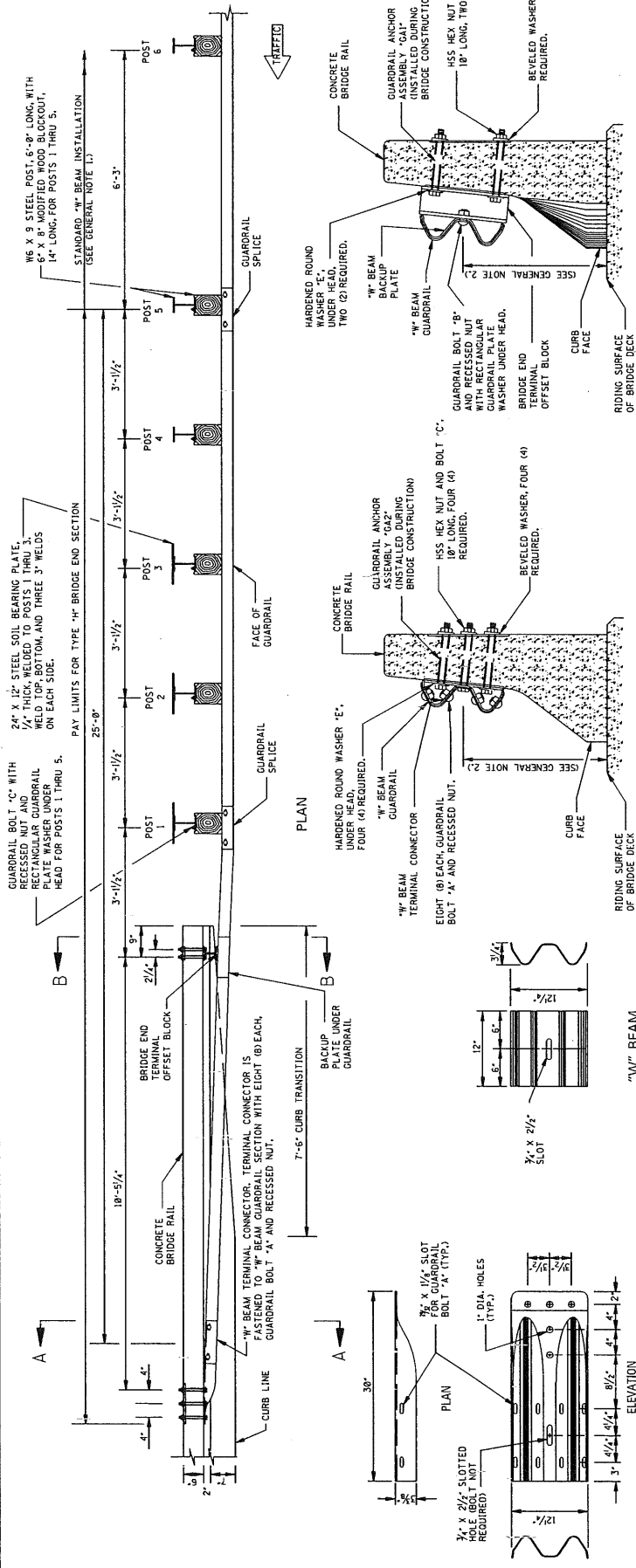
SECTION B-B



SECTION A-A

PLAN





SECTION B-B

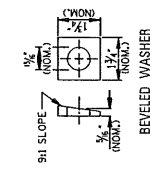
SECTION A-A

"W" BEAM BACKUP PLATE

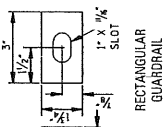
"W" BEAM TERMINAL CONNECTOR

GENERAL NOTES:

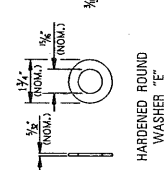
1. ALL NOTES AND DETAILS PERTAINING TO NORMAL "W" BEAM GUARDRAIL INSTALLATION NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON SHEET GR-18 (STEEL POSTS).
2. THE HEIGHT OF RAIL AT THE BRIDGE END IS 21" AND WILL BE MAINTAINED THROUGHOUT THE BRIDGE SECTION. THE BRIDGE END SECTION WILL BE A LINEAR TRANSITION IN THE VERTICAL PLANE.
3. GUARDRAIL ELEMENTS SHALL BE LAPPED IN THE DIRECTION OF TRAFFIC. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.



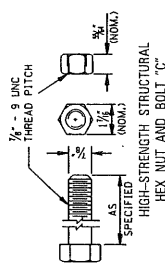
BEVELED WASHER



RECTANGULAR GUARDRAIL PLATE WASHER



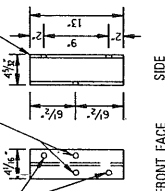
HARDENED ROUND WASHER "E"



HIGH-STRENGTH STRUCTURAL HEX NUT AND BOLT "C" (ASTM A 325)



"W" BEAM BACKUP PLATE



"W" BEAM TERMINAL CONNECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

**GUARDRAIL:  
BRIDGE END SECTION  
TYPE "H"  
(STEEL POSTS)**

DATE	REVISION

ISSUE DATE: OCTOBER 1, 1998

WORKING NUMBER: GR-20  
SHEET NUMBER: 188

NOTE: THE "W" BEAM BACKUP PLATE IS USED WITH THE BRIDGE END SECTION. THE DIMENSIONS INDICATED ON THIS SHEET ARE IDENTICAL TO THOSE OF THE STANDARD "W" BEAM RAIL SECTION.

NOTE: THE "W" BEAM TERMINAL CONNECTOR IS USED WITH THE BRIDGE END SECTION. THE DIMENSIONS INDICATED ON THIS SHEET ARE IDENTICAL TO THE STANDARD "W" BEAM SECTION. (AS SHOWN M 188 CLASS B, TYPE II).

FRONT FACE  
DETAIL OF BRIDGE END  
TERMINAL OFFSET BLOCK







