### SECTION 905 -- PROPOSAL (CONTINUED)

I (We) hereby certify by digital signature and electronic submission via Bid Express of the Section 905 proposal below, that all certifications, disclosures and affidavits incorporated herein are deemed to be duly executed in the aggregate, fully enforceable and binding upon delivery of the bid proposal. I (We) further acknowledge that this certification shall not extend to the bid bond or alternate security which must be separately executed for the benefit of the Commission. This signature does not cure deficiencies in any required certifications, disclosures and/or affidavits. I (We) also acknowledge the right of the Commission to require full and final execution on any certification, disclosure or affidavit contained in the proposal at the Commission's election upon award. Failure to so execute at the Commission's request within the time allowed in the Standard Specifications for execution of all contract documents will result in forfeiture of the bid bond or alternate security.

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

ADDENDUM NO. 6/17/2021 DATED ADDENDUM NO. DATED ADDENDUM NO DATED ADDENDUM NO. DATED ADDENDUM NO. DATED ADDENDUM NO DATED Numbe Description TOTAL ADDENDA: (Must agree with total addenda issued prior to opening of bids) Revised NTB No. 3389: Amendment EBSx Download Respectfully Submitted, DATE Contractor Signature TITLE **ADDRESS** CITY, STATE, ZIP 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. SP-0008-03(058)/ 108231301000 Hinds County(ies)

Revised 01/26/2016

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

CODE: (SP)

SECTION 904 - NOTICE TO BIDDERS NO. 3389

**DATE:** 05/12/2021

**SUBJECT:** Scope of Work

PROJECT: SP-0008-03(058) / 108231301 -- Hinds County

The contract documents do not include an official set of construction plans but may, by reference, include some Standard Drawings when so specified in a Notice to Bidders entitled, "Standard Drawings".

A general description of the work required on the project is as follows:

Mill and overlay approximately 9.5 miles of existing asphalt pavement on US Highway 49 in Hinds County beginning 0.45 miles north of I-220 (BOP Station 59+00) and ending at the Madison County Line (EOP Station 571+25). Details of specific work are mentioned in the following sections.

# Project wide work from Station 59+00 (BOP) to Station 571+25 (EOP) North Bound

Prior to beginning the milling and overlay operations, any failed areas in the existing pavement shall be removed full depth (12" to 14" and variable) and repaired full depth using 12.5-mm, HT, Leveling asphalt. Other repairs may be necessary as field conditions require and as directed by the Engineer. After failures have been repaired, milling and leveling at locations listed or as directed will be required for grade profile corrections using 9.5mm, HT, Leveling asphalt. Following pre-leveling operations, the top 1½" of existing asphalt on all mainline lanes and shoulders shall be milled. The mainline lanes shall be overlaid using 1½" of 9.5-mm, HT Polymer Modified, asphalt and the shoulders using 1½" of 9.5-mm, ST, asphalt. Where the cross slope is not equal to two percent (2%), the thickness of the overlay/milling operations shall be adjusted to correct the cross slope.

# Project wide work from Station 59+00 (BOP) to Station 571+25 (EOP) South Bound

Prior to beginning the milling and overlay operations, any failed areas in the existing pavement shall be removed full depth (12" to 14" and variable) and repaired with full depth using 12.5-mm, HT, Leveling asphalt. Other repairs may be necessary as field conditions require and as directed by the Engineer. Prior to milling the south bound lanes, which are constructed of a composite Asphalt/Jointed Concrete pavement, any failed JRCP joints shall be repaired full depth to a 3-foot width on either side of the joint (6' total width) by removal of the existing concrete. Failed JRCP shall be repaired full depth using 12.5-mm, HT, Leveling asphalt. After failures have been repaired, milling and leveling at locations listed or as directed will be required for grade profile corrections using 9.5-mm, HT, asphalt. Following pre-leveling operations, the top 1½" of existing asphalt on all mainline lanes and shoulders shall be milled. The mainline lanes shall be overlaid using 1½" of 9.5-mm, HT, Polymer Modified, asphalt and the shoulders

using 1½" of 9.5-mm, ST, asphalt. Where the cross slope is not equal to two percent (2%), the thickness of the overlay/milling operations shall be adjusted to correct the cross slope.

**General Notes:** These general notes are applicable to all sites.

# Milling

The Reclaimed Asphalt Pavement (RAP) material removed by the milling 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, shall be stockpiled at the MDOT Clinton Maintenance Facility at 720 Springridge Road, in Clinton. The Contractor will be required to coordinate the efforts with the maintenance office to effectively stockpile the milled material as directed by the Engineer. Anytime that milling is being hauled to MDOT, the Contractor shall provide the necessary equipment and operator(s) at the above mentioned location to stockpile the material. All costs associated with the hauling, placing, and stockpiling of the State-retained material shall be absorbed in other items bid and will not be measured for separate payment.

Where milling is required, the Contractor shall provide outlets in the existing shoulders at sufficient intervals to prevent pooling or standing water on the milled surface. The cost of which shall be absorbed in other items bid.

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. Where slope correction is required correction will be made by milling, paving, or combination thereof as directed by the engineer.

Milling of driveway pads shall be conducted in a manner to prevent gouging or otherwise affecting the roadway pavement structure and slope. Milling of driveway pads shall not be done in simultaneous path with main line milling.

Traffic will be allowed to run on the milled surface for a maximum of five (5) days. Any surface not covered before the allowable time will result in a fine for any full or partial day exceeding five (5) days. Fine milling shall be performed in accordance with the attached drawings. This work shall be applied on all mainline tie-ins, driveway pads, county roads, and etc. Traffic will be allowed to run on all milled tie-ins not exceeding five (5) days.

Temporary pavement joints (paper joints) shall be at least three (3) paper-widths long shall be used at all milled tie-ins and shall be adequately maintained. Approved mix designs must be on hand prior to milling. Fine milling operations will not commence until such time that, in the opinion of the Engineer, weather conditions have been consistently suitable enough to allow the placement of the asphalt pavement after the milling operations.

### **Paving**

Prior to beginning the milling and overlay operations, any failed areas in the existing pavement shall be removed full depth (12 3/8" to 14 7/8" and variable) and repaired with 12.5-mm, HT, Leveling, asphalt. Other repairs may be necessary as field conditions require and as directed by the Engineer. Payment for removal of failed areas shall be made under pay item 202-B:

Removal of Asphalt Pavement, Failed Areas. Payment for saw cutting of failed areas shall be paid under pay item 503-C: Saw Cut, Full Depth. Milling full depth shall also be an acceptable means of removing failed areas should a Contractor elect not to saw cut. Milling for removal of failed areas shall be paid under pay item 202-B: Removal of Asphalt Pavement, Failed Areas.

If traditional excavation methods are used, the removal area shall first be saw cut full depth including concrete, where applicable, to create a neat line and prevent damage to the adjacent pavement structure. Payment for saw cuts will be made using the appropriate items. If milling techniques are used, the area will not require saw cuts but care should be exercised to create a neat removal line and to prevent damaged to the adjacent pavement structure. If saw cuts are used in conjunction with milling, payment will be made using the appropriate pay items. Payment will not be made for saw cuts that are not performed.

Prior to milling the south bound lanes, which are constructed of a composite HMA/Jointed Concrete pavement, any failed JRCP joints shall be repaired to full depth to a 3-foot width on either side of the joint (6' total width) by removal of the existing concrete. Failed JRCP will be repaired to full depth using 12.5-mm, HT, Leveling, asphalt. A table showing exact locations of the joint repair is attached. No other joint repairs will be required outside of the locations listed in the attached table unless otherwise approved by the District Construction Engineer.

Additionally, prior to mill/overlay operations, all transverse joints in the JRCP shall be cleaned to full depth. Any cracked and broken pieces of existing asphalt within one foot (1') of each side of the joint shall be removed during cleaning, and replaced using 12.5-mm, HT, Leveling, asphalt.

Publicly maintained roads and streets shall be milled and paved to the existing right-of-way. Privately owned entrances shall be paved to the shoulder line as per the included typical drawing. Pads shall be shaped horizontally and vertically to prevent excessive drop-offs. All residential pads exceeding a 2" drop off from the edge of pavement to the pad shall be corrected before the end of the day using paper joints to minimize damage to vehicles.

Intersecting roads and channelized intersections at W. County Line/Kickapoo Road, MacLean Road, Pinehaven Drive, Green's Crossing Road, and Kennebrew Road shall be milled/overlaid accordingly. The Contractor shall mill 1½' to EOM and place 1½" of 9.5-mm, HT, asphalt. RPM's shall be placed on the edge of mainline, along the radius, and along the county roads per policy.

### **Granular Shoulder Material**

Where applicable, the existing shoulders shall be raised to match the new pavement elevation by placing variable depth granular material (Class 5, Group C) on the existing shoulders. Placement of the granular material on the finished asphalt course shall not be permitted. The material shall be bladed, rolled, and compacted to a finished slope of four percent (4%). Placement of this material shall be performed to provide a uniform and compacted shoulder with a minimum depth and width of material placed. Shoulders with adequate shoulder material in place shall be bladed to a slope of four percent (4%). The cost of blading will be an absorbed item and is not to be included in the price of pay items bid.

On a daily basis, the Contractor shall pull shoulder material up to edge of asphalt to maintain 2-inch or less drop off. Granular material (Class 5, Group C) shall be provided around residential pads to prevent shoulder drop-offs as directed and shall be placed in a timely manner. Drop-offs exceeding  $2\frac{1}{2}$  shall be corrected within two (2) calendar days of placement of pad. Stabilizer aggregate shall be used as directed by the Engineer.

Removal of the existing shoulder material shall be coincident with the milling/overlaying operation to prevent the possible ponding of water. No payment will be made for blading or removal of the existing shoulder material. Any material excavated from the existing shoulder shall be used to raise the existing shoulder to match the new pavement elevation and any surplus material shall be spread along the edge of the shoulders, fore slopes, or other adjacent areas as directed by the Engineer. The cost associated with surplus material will be absorbed in other items bid. Material which cannot be placed in adjacent areas and deemed to be excess excavation by the Engineer shall be removed under pay item 203-G: Excess Excavation.

# **Temporary and Permanent Pavement Markings**

Temporary traffic stripe will be required immediately after the required overlay/milling and prior to opening area to traffic. Temporary stripe shall be placed in the same location and configuration as the permanent stripe.

If temporary stripe is offset, the Contractor shall conduct operations in a manner to insure the final temporary stripe is placed at the required location of the permanent stripe. If removal of temporary offset stripe is required in order to achieve the correct location and alignment of permanent stripe, the cost of removal will be absorbed in other items bid. Placing double temporary centerline will not be allowed.

Temporary striping shall conform to finished stripe specifications for alignment, neatness, and straightness.

All permanent striping will be double-drop thermoplastic. Edge lines shall be placed to accommodate the lane widths shown on the applicable typical sections unless prevented by field conditions. Thermoplastic pavement marking thickness shall be a minimum of 90 mils for center lines, edge lines, lane lines, gore areas, turnouts, and county roads. All other thermoplastic pavement markings shall be a minimum of 120 mils.

The use of short strips of traffic tape will not be allowed unless approved by the Engineer.

Permanent pavement markers shall be placed in accordance with the attached drawings and Standard Drawings. Two-way yellow markers shall be placed on two-way roads. Two-way clear markers are to be placed on county roads as shown on attached drawings.

Rumble strips shall be placed throughout the project according to standard specifications and per attached drawing. Payment for rumble strips will be made under pay item 423-A: Rumble Stripe, Ground in.

### Guardrail

Guard rail pads and shoulders shall be paved with 9.5-mm, HT, asphalt prior to placement of the new guard rail. Guardrail pads shall extend two feet (2') behind the guardrail post at all existing guardrail locations maintaining guardrail height requirements. Prior to placement of the guardrails and asphalt, 3" and variable depth of existing shoulder material shall be removed. Any excess material excavated from the existing shoulder shall be used to raise the existing shoulder to match the new pavement elevation and shall be spread along the edge of the shoulders, fore slopes, or other adjacent areas as directed by the Engineer. The cost associated with this excess material shall be considered an absorbed item.

The existing guard rail and terminal end sections shall be removed and replaced as directed. The new guard rail shall be placed in the same location as the existing railing and the height shall meet the approved departmental standards (Currently 25" to Center). All removed guard rail shall be delivered to Whitfield Maintenance Facility at no additional cost to the State. A 24-hour notice will be required prior to delivery. Any removed metal post, concrete anchors, hardware, and wooden posts shall be disposed of by the Contractor at no additional cost to the State. All holes left by post shall be filled and compacted as directed by the Engineer prior to placing the new asphalt pad. Payment for the removal and replacement of guard rail and terminal end sections shall be made under the appropriate pay items for guard rail and terminal ends.

Guardrail lengths are based on terminal end length of 37.5 feet. If terminal of length other than this is used, an adjustment in w-beam length will be required.

Delineators shall be required on all guardrails within the project. Existing guardrail delineators shall be removed and replaced. The cost of removal shall be included in the price of other items bid.

The asphalt guardrail pad shall be removed or milled and repaved prior to the placement of the new guardrail. Removal of the guardrail pad shall be paid for using the milling pay item. Guardrail posts shall not be completely surrounded by pavement

## **Permanent Signs**

Permanent signs as listed on the attached tables shall be replaced. Unless otherwise listed in the attached tables, existing posts, anchors, angles/bolts, and other components shall be reused. The Contractor shall use new bolts, screws, washers, nuts, etc. of the required sizes in the installation of signs. New signs shall be installed on the same day the existing sign is removed.

# **Traffic Signals**

Vehicle loop detectors at listed locations shall be replaced with radar detection sensors. Radar units shall be installed per manufacturer's recommendations. The Contractor may remove existing detection loop cable, if necessary. Cable quantities may be adjusted based on radar locations per manufacturer recommendations. Removal of vehicle loop detection cable shall be absorbed into other items bid.

### **Traffic Control**

The Contractor shall erect and maintain construction signing and provide all signs and traffic control devices necessary to safely maintain traffic around and through the work areas in accordance with the Traffic Control Plan and the MUTCD. The cost is to be included in the price bid for pay item 618-A: Maintenance of Traffic. Fluorescent orange sheeting shall be used on all construction and traffic control signs except those designated in the plans to be black legend and border on white background. Standard roadside construction signs and barricades will be paid for using the appropriate pay items.

Roadside construction signs, barrels, etc. shall be placed in accordance with the attached drawings or as directed by the Engineer. W20-1 signs shall be placed on all public road approaches as shown or as directed.

On a daily basis, the Contractor shall 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. Debris removal costs shall be included in the prices of other items bid. Failure of the Contractor to remove the 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.

Potholes that may exist shall be patched in a timely manner from the date of Notice to Proceed until the date of the Final Maintenance Release. Cracks of significant depth or depressions in the existing surface which, in the opinion of the Engineer, may cause reflection cracking shall be filled with asphalt pavement immediately prior to overlay operations. Patching of potholes shall be considered an absorbed item.

Temporary asphalt joints (aka paper joints) shall be employed at all locations requiring traffic to traverse an uneven, transverse, pavement joint. Paper joints shall be a minimum of nine feet (9') in length and for the full width of the milled/paved surface. Paper joints shall be adequately maintained.

## **Miscellaneous Notes**

It shall be the responsibility of the Contractor to protect existing structures such as pipes, inlets, aprons, bridges, etc. from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged by the Contractor during the life of the contract. No payment will be made for replacement or repair of damaged items.

Any signs, mailboxes, etc. that are in conflict with construction of this project shall be removed and relocated by the Contractor as directed by the Engineer. Any costs accrued by these conflicts shall be absorbed in other items bid.

Incidental work such as removing vegetation, shaping and compacting shoulders, removing and resetting signs and/or mailboxes, removing excess asphalt material, project clean-up, and other items of incidental work necessary to complete the project will not be measured for separate payment. Cost for incidental work will be absorbed in the prices of other items bid.

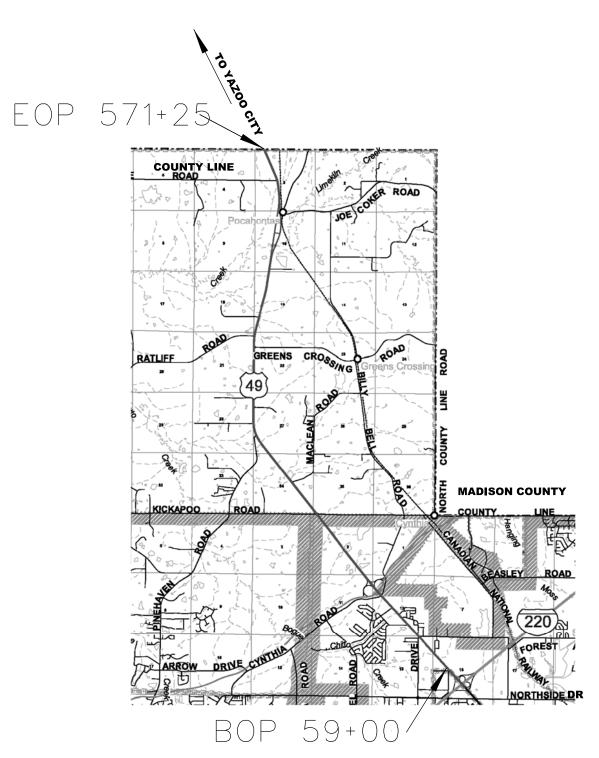
Existing raised pavement markers shall be removed prior to beginning the overlay operation. All costs associated with removing the existing pavement markers shall be included in the price for other items bid.

Prior to the final inspection, bridges, islands, and areas with curb shall be swept/cleaned. Care should be taken to prevent milled asphalt, asphalt debris, vegetative/granular debris, etc. from entering drainage structures or clogging other drainage ways. Disposal of material will not be measured for separate payments.

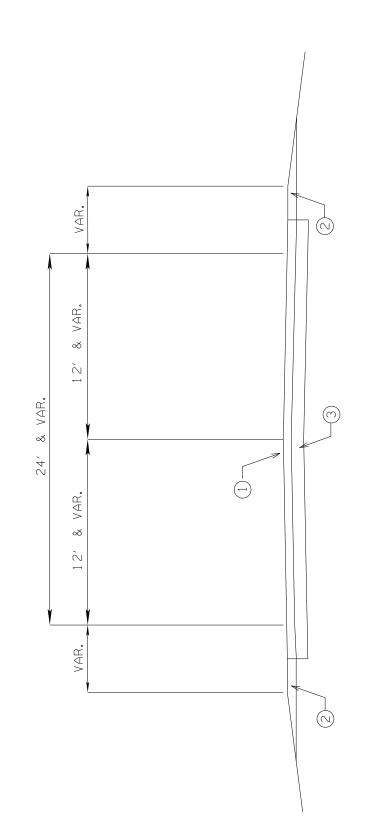
Following the overlaying operation the transverse joints in the pavement shall be sawed and sealed within seven (7) days. The details for sawing and sealing transverse joints for this section are in the Standard Specifications. The width of the sawing and sealing operation will be 14' on each side of centerline, unless otherwise directed by the Engineer, to prevent "sympathy cracking." It is the responsibility of the Contractor to locate and mark all existing joints that are to be sawed and sealed prior to the milling operation. The Contractor shall notify the Department when this is to take place so that they can oversee the work and determine the width that each joint will be sawed and sealed.

The existing pressure relief joints on Bridge 173.0B shall be removed, cleaned and replaced. All cost incurred to remove, clean, and replace these joints shall be paid for under pay item 907-824-PP: Bridge Repair, Pressure Relief Joint.

# US 49 MILL AND OVERLAY PROJECT FROM 0.45 MILES NORTH OF 1-220 TO MADISON COUNTY LINE HINDS COUNTY 108231/301000

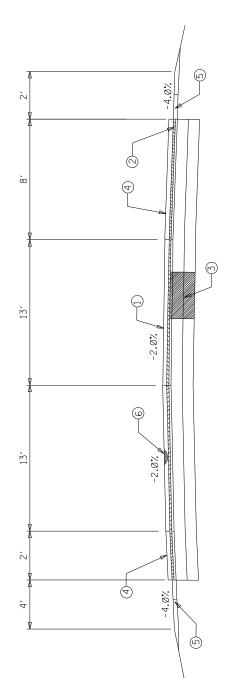


# HINDS COUNTY TYPICAL SECTION US 49 OVERLAY 108231/301000 COUNTY ROADS



(1) Mill and Overlay 11/2" Asphalt Pavement 9.5mm,HT (2) C1.5, GRP. C As Required (3) Existing Pavement Structure

# SP-0008-03(058) TYPICAL SECTION HINDS COUNTY BOP 59+00 TO EOP 571+25 US 49 OVERLAY



EXISTING PAVEMENT (IN DIRECTION OF TRAFFIC FLOW) NORTH BOUND SHOWN

(1,50" FINE MILLING AND REPLACE WITH 1,50"

ASPHALT PAVEMENT, (9.5mm HT MIXTURE) (Polymer Modified) 1.50" FINE MILLING AND REPLACE WITH 1.50" ASPHALT

O 1,507 FINE MILLING AND KEPLACE WITH 1,507 ASPHALT
PAVEMENT, ST (9,5mm MIXTURE)

REPAIR ANY FAILED AREAS WITH FULL DEPTH ASPHAL

© REPAIR ANY FAILED AREAS WITH FULL DEPTH PAVEMENT 12,5MM MIX HT LEVELING © RUMBLE STRIPS WILL BE REQUIRED

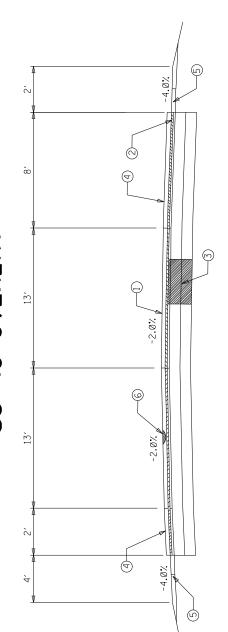
ØRUMBLE STRIPS WILL BE REQUIRED Øvariable depth granular material (class 5 group C)

B DIRECTED BS SPOT MILLING/LEVELING WITH 9.5mm HT LEVELING MIXTURE \*EXISTING PAVEMENT STRUCTURE 12-14" VAR. ASPHALT PAVEMENT 8" LIME TREATED BASE

ENGINEER

ENGINEER

# TYPICAL SECTION SP-0008-03(058) OVERLAY COUNTY HINDS 49 59+00



(IN DIRECTION OF TRAFFIC FLOW) SOUTH BOUND SHOWN EXISTING PAVEMENT

1,50" FINE MILLING AND REPLACE WITH 1,50"  $\Theta$ 

ASPHALT PAVEMENT, (9.5mm HT MIXTURE) (Polymer Modified) 1.50" FINE MILLING AND REPLACE WITH 1.50" ASPHALT

 $\bigcirc$ 

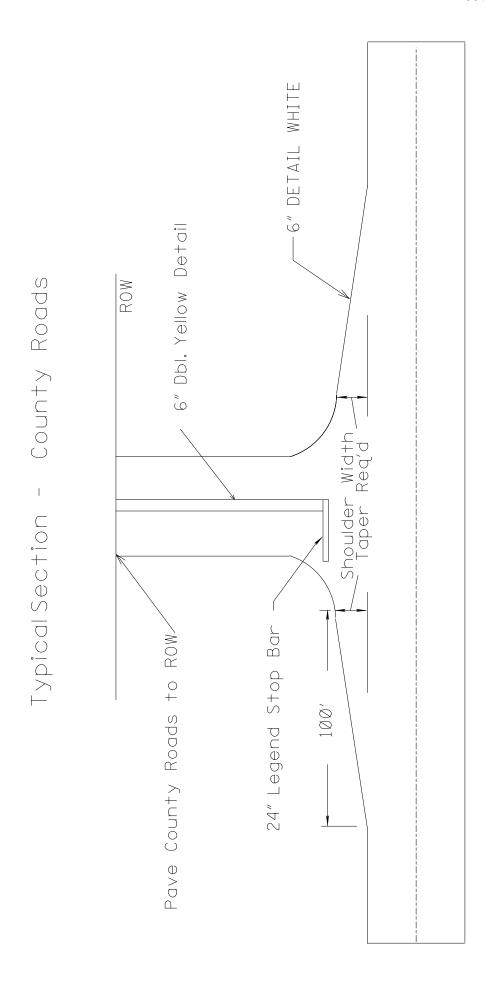
PAVEMENT, ST (9,5mm MIXTURE) Repair any failed areas / failed jrcp joints (min 3' either side  $\bigcirc$ 

OF JOINT) WITH FULL DEPTH ASPHALT PAVEMENT 12,5MM HT LEVELING RUMBLE STRIPS WILL BE REQUIRED

ØRUMBLE STRIPS WILL BE REQUIRED Øvariable depth granular material (class 5 group C) Øspot milling/leveling with 9.5mm ht leveling mixture as directed

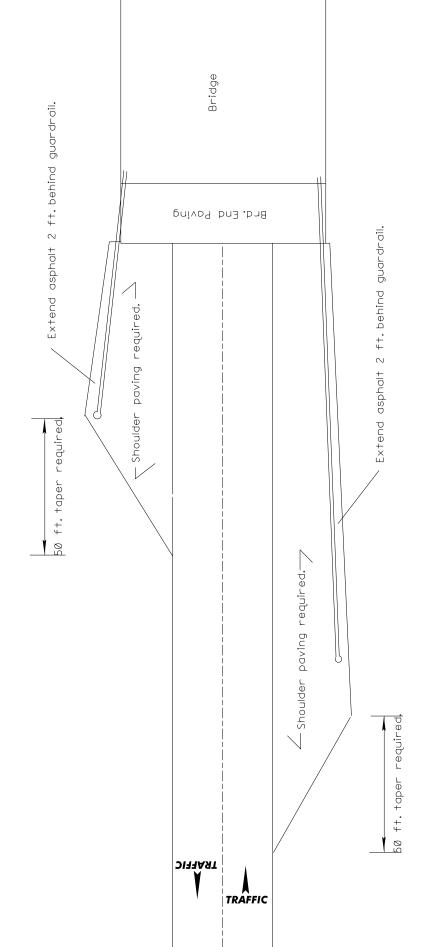
≻ B 8" JRCP (OR CRCP) PAVEMENT 6" CEMENT TREATED BASE 4-7" VAR, ASPHALT PAVEMENT STRUCTURE \*EXISTING PAVEMENT

REC MENTIONS CRCP



US 49 HINDS COUNTY 108231/301000

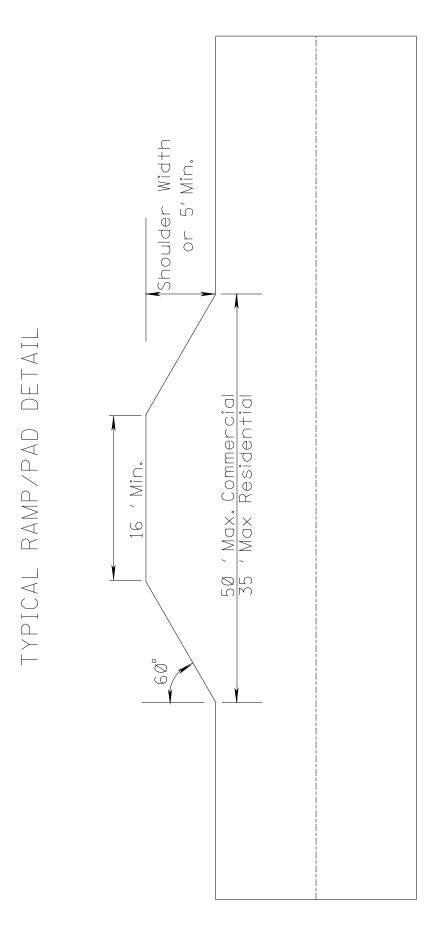
Typical Section of Additional Shoulder Paving Required at GuardrailLocations



- 13 -

GUARDRAILS ARE TO BE REMOVED, THEN PAVED SHOULDERS ARE TO BE MILLED 1-1/2" AND REPAVED WITH 1-1/2" HMA, ST 9.5mm AND NEW GUARDRAILS WILL BE INSTALLED

Notice to Bidders No. 3389-- Cont'd.



	6	.5-mm, HT,	Asphalt Pa	9.5-mm, HT, Asphalt Pavement, Polymer Modified	lymer Moc	lified		
			40	403-D007				
Date	Station Number   Direction   LT/RT LN   Length   Width   Quantity (TON)   Theoritical	Direction	LT/RT LN	Length	Width	Quantity (TON)	Theoritical	OR/UR
	59+00-571+25		LT/RT LN	NB LT/RT LN 50979.98	28		12936.169	12936.169 -12936.169
	59+00-571+25	SB	LT/RT LN	SB LT/RT LN 50979.98	28		12936.169	12936.169 -12936.169
					Totale		35077 330	

9.5-mm, HT, Asphalt Pavement	Asphalt Pave	ment
40	403-A013	
Location	Size (SF)	Theo.
Crossovers	378090.000 3426.441	3426.441
Driveway Pads	26892.000	243.709
County Roads	317025.000	2873.039
Misc.	124281.000 1126.297	1126.297
	Total	7669.485

		9.5-	9.5-mm, ST, Asphalt Pavement	alt Paveme	   			
			403-A015	15				
Date	Station Number	Direction	LT/RT LN	Length	Width	Direction   LT/RT LN   Length   Width   Quantity (TON)   Theoritical   OR/UR	Theoritical	OR/UR
	59+00-571+25	NB	NB RT Shoulder 50979.98	50979.98	8		3696.048	3696.048 -3696.048
	59+00-571+25	SB	LT SHoulder 50979.98	50979.98	∞		3696.048	3696.048 -3696.048
					Totals	0	7392.097	

12.5-mm, HT, Asphalt Pavement, Leveling									
			12.5-mr	m, HT, Aspl	halt Paveme	nt,Levelin	bn		
	Date	Station Number	Direction	LT/RT LN	Length	Width	Quantity (TON)		OR/UR
Station Number Direction LT/RT LN Length Width Quantity (TON) Theoritical		Failed Areas			Full Structu	re Depth		954.885	-954.885
Station Number     Direction     LT/RT LN     Length     Width     Quantity (TON)     Theoritical       Failed Areas     Full Structure Depth     954.885		Punchouts			Full Structu	re Depth		631.377	-631.377
Station Number         Direction         LT/RT LN         Length         Width         Quantity (TON)         Theoritical           Failed Areas         Full Structure Depth         954.885           Punchouts         Full Structure Depth         631.377									
Station Number         Direction         LT/RT LN         Length         Width         Quantity (TON)         Theoritical           Failed Areas         Full Structure Depth         954.885           Punchouts         Full Structure Depth         631.377									
Station Number         Direction         LT/RT LN         Length         Width         Quantity (TON)         Theoritical           Failed Areas         Full Structure Depth         954.885           Punchouts         Full Structure Depth         631.377						Totale	C	1586 262	

				_	
		OR/UR	2368.575 -2368.575	0.000	
		Theoritical	2368.575	0.000	
		Quantity (TON)			
ıt, Leveling		Width			
9.5-mm, HT Asphalt Pavement, Leveling	403-B010	Length	6" Average		
ı, HT Aspha	40	LT/RT LN			
9.5-mn		Direction			
		Station Number Direction LT/RT LN Length Width Quantity (TON) Theoritical	Leveling		
		Date			

		907-8	323-B001					
		Saw Cı	ut, Type 1					
Station	NB/SB	Lane	Length	Width	Quantity (LF)			
BR 173.0B	NB	2 End	d Wall Joint	Joints 2 Cuts Each 156.00				
BR 173.0B	NB	P	ressure Rel	ief Repair	156.00			
	•			Total	312.00			

		50	03-C010		
		Saw Cu	ıt, Full Deptl	h	
Station	NB/SB	Lane	Length	Width	Quantity (LF)
570+43	SB	RL/LL	20	26	92.00
391+95	SB	RL/LL	10	26	72.00
349+15	SB	RL/LL	20	26	92.00
326+80	SB	LL	20	13	66.00
326+50	SB	RL	20	13	66.00
312+95-313+50	SB	RL/LL	55	26	162.00
310+65	SB	LL	10	13	46.00
297+10	SB	RL	20	13	66.00
256+95	SB	RL/LL	10	26	72.00
247+85	SB	RL/LL	10	26	72.00
198+45	SB	RL/LL	20	26	92.00
185+75	SB	RL	10	13	46.00
161+75	SB	RL/LL	10	26	72.00
139+00	SB	RL/LL	20	26	92.00
122+90	SB	RL/LL	10	26	72.00
105+25-105+75	SB	RL/LL	50	26	152.00
74+55	SB	RL/LL	20	26	92.00
				Total	1424.00
			10%	for Contingencies	1566.4

<sup>\* 10%</sup> is added for contingencies for repairs as directed by the Engineer.

		Faile	d Areas			
Station	Direction	Lane	Length	Width	Sqaure Feet	Square Yards
59+00	NB	Shoulder	50	8	400	44.444
169+00-170+00	NB	RL/LL	100	28	2800	311.111
219+00-221+00	NB	RL/LL	200	28	5600	622.222
407+50-408+50	NB	RL/LL	100	28	2800	311.111
	Tota				11600	1288.889
	10% f	or Continge	encies			1417.778

	F	ull-Dept	h Joint R	epair		
Station	Direction	Lane	Length	Width	Sqaure Feet	Square Yards
570+43	SB	RL/LL	20	26	520	57.778
391+95	SB	RL/LL	10	26	260	28.889
349+15	SB	RL/LL	20	26	520	57.778
326+80	SB	LL	20	13	260	28.889
326+50	SB	RL	20	13	260	28.889
312+95-313+50	SB	RL/LL	55	26	1430	158.889
310+65	SB	LL	10	13	130	14.444
297+10	SB	RL	20	13	260	28.889
256+95	SB	RL/LL	10	26	260	28.889
247+85	SB	RL/LL	10	26	260	28.889
198+45	SB	RL/LL	20	26	520	57.778
185+75	SB	RL	10	13	130	14.444
161+75	SB	RL/LL	10	26	260	28.889
139+00	SB	RL/LL	20	26	520	57.778
122+90	SB	RL/LL	10	26	260	28.889
105+25-105+75	SB	RL/LL	50	26	1300	144.444
74+55	SB	RL/LL	20	26	520	57.778
	Tota	l			7670	852.222
	10% f	or Conting	encies			937.444

<sup>\* 10%</sup> is added for contingencies for repairs as directed by the Engineer.

			Leveling			
Station	Direction	Lane	Length	Width	Sqaure Feet	Square Yards
564+25-571+25	NB	RL/LL	700	36	25200	2800.000
236+75-243+00	SB	RL/LL	625	36	22500	2500.000
205+50-208+15	SB	RL/LL	265	36	9540	1060.000
155+05-156+05	SB	RL/LL	100	36	3600	400.000
140+75-142+00	SB	RL/LL	125	36	4500	500.000
					0	0.000
	Tot	tal			65340	7260.000

						1			בייויייייייייייייייייייייייייייייייייי	2000	NIE CO		
		NDIS	SIZE	AREA		PIPE POS	POSTS (If)		U PO	U POST (If)	(7/16" x 2-1/2") BARS	Class "B"	
STATION	NB/SB	NUMBER	(in. x in.)	(st)	 	3-1/2"	.4	5"	2 lb/ft	3 lb/ft	3.72 lbs/lf	Conc (cy)	REMARKS
16+00	NB	R1-2	36X36x36	4.5						12			
126+25	NB	S1-1	9E×9E	6.75						12			Knocked Over
457+25	NB	R2-1	24x30	5						24			
457+25	NB	R2-1	24x30	5						24			
543+95	SB	R1-2	98	4.5	1					12			Yield onto SB
543+96	SB	R6-3A	30X24	5	-								Divided HWY on Stop assembly
543+98	SB	R6-1R	36x12	3	-					12			One way in median on left
478+55	SB	R6-1L	36x12	3	-					12			Directly across from Entrance
421+90	SB	R1-2	98	4.5	1					12			Yield onto SB
421+90	SB	R6-1R	36x12	3	1					12			One way Right
421+90	SB	R6-1L	36x12	3	-					12			One way Left
421+90	SB	R6-3A	30x24	5	-								Divided HWY on Stop assembly
405+25	SB	R1-2	36	4.5						12			Yield in Median
405+25	SB	R6-1R	36X12	33	-					12			Oneway Right left median
405+25	SB	R6-1R	36X12	3	-								Stop Assembly
405+25	SB	R6-3A	30X24	2	,								Stop Assembly
395+50	SB	R6-3A	30X24	2	-								Divided HWY on Stop assembly
395+50	SB	R6-1L	36x12	3	-					12			Directly across from Entrance
395+50	SB	R6-1R	36x12	3	1					12			One way in median
374+00	SB	R6-1R	36x12	3	1					12			One way in median
374+00	SB	R6-1R	36X12	3	ı								Stop Assembly
374+00	SB	R6-3A	30X24	5									Stop Assembly
351+75	SB	R6-1R	36X12	3	-								Stop Assembly
351+75	SB	R6-3A	30X24	5	-								Stop Assembly
343+25	SB	R6-3A	30x24	5	1								Divided HWY on Stop assembly
329+25	SB	R6-1R	36X12	3	'								Stop Assembly
329+25	SB	R6-3	30X24	5									Stop Assembly
329+25	SB	R6-1R	36X12	3	-								Stop Assembly
329+25	SB	R6-3	30X24	2	-								Stop Assembly
317+75	SB	R6-1R	36X12	3	-					12			Stop Assembly
317+75	SB	R6-3	30X24	5	'								Stop Assembly
317+75	SB	R1-2	98	4.5	,					12			Median
266+50	SB	R1-2	36	4.5	'					12			
266+50	SB	R6-3	30x24	5	-					12			
231+45	SB	R6-1R	36x12	3	1					12			
231+45	SB	R6-1L	36x12	m	ı					12			

			Stop Assembly	Stop Assembly		
			Stop	Stop		0
					0	0
12	12	12				312
						0
						0
						0
						0
-	-	1	-	1		0
5	5	4.5	3	5		169.25
30x24	30x24	36	36X12	30X24		
R6-3	R6-3	R1-2	R6-1R	R6-3		Total this sheet =
SB	SB	SB	SB	SB		Total this
140+50	140+50	113+45	113+45	113+45		

		REMARKS	Do not enter	Do not enter in median	In Median	In Median				
	Class "B"	Conc (cy)	0.12							0.12
KNESS	(7/16" x 2-1/2") BARS	3.72 lbs/lf							0	0
STANDARD ROADSIDE SIGNS - 0.100" THICKNESS	U POST (If)	2 lb/ft 3 lb/ft		12	12	12	12	12		09
DE SIGNS - (	U PC	2 lb/ft								0
D ROADSIE		2"								0
STANDAR	POSTS (If)	4"								0
,	PIPE PC	3-1/2"	8							8
		3"		1		-		-		0
	AREA	(sf)	6	9	9	6	6	6		54
	SIZE	(in. x in.)	36x36	36x36	36x36	36x36	36x36	36x36		
	NDIS	STATION NB/SB NUMBER (in. x in.)	R5-1	R5-1	R5-1	R5-1	R5-1	R5-1		s sheet =
		NB/SB	NB	SB	SB	SB	SB	SB		Total this sheet =
		STATION	43+00	543+97	266+50	266+50	266+50	231+45		

						S	TANDARD	ROADSID	E SIGNS - 0	STANDARD ROADSIDE SIGNS - 0.125" THICKNESS	KNESS		
		SIGN	SIZE	AREA		PIPE PO	POSTS (If)		U PO	U POST (If)	(7/16" x 2-1/2") BARS	Class "B"	
STATION	NB/SB	NUMBER	(in. x in.)	(sf)	3"	3-1/2"	4"	2"	2 lb/ft	3 lb/ft	3.72 lbs/lf	Conc (cy)	REMARKS
219+00	NB	W3-3	48x48	16		8					5	0.13	
244+75	SB	W3-4	48X48	16		8					5	0.13	When Flashing
244+75	SB	W3-3	48x48	16		8					5	0.13	
544+00	SB	R1-1	48	13.25			12				5	0.13	
421+90	SB	R1-1	48	13.25	1		12						
405+25	SB	R1-1	48	13.25	-		12					0.13	Stop Assembly
374+00	SB	R1-1	48	13.25	-		12					0.13	Stop Assembly
351+75	SB	R1-1	48	13.25	-		12					0.13	Stop Assembly
329+25	SB	R1-1	48	13.25	-		12					0.13	Stop Assembly
329+25	SB	R1-1	48	13.25	-		12					0.13	Stop Assembly
317+75	SB	R1-1	48	13.25	-		12					0.13	Stop Assembly
113+45	SB	R1-1	48	13.25	-		12					0.13	Stop Assembly
											20		
	Total thi	Total this sheet =		167.25	0	24	108	0	0	0	74.4	1.43	

			GUARDRAIL		FLARED	TANGENT	Cable	BRID	BRIDGE E	BRIDGE END SECTION		DELINE	DELINEATORS			
			THRIE	THRIE BEAM	TERMINAL	TERMINAL	Anchor	TYPE "A"	TYPE "D"	TYPE "I"	SPEC DESIGN			Type 3	GUARDRAIL	REMARKS
	LOCATION	Œ,	TRANS SECT	TRANS, SECT, THRIE BEAM	END SECT.	END SECT.	TYPE		MOD.		BR END CONN.	WHITE	YELLOW	Object Markers	REMOVAL	
STATION	(LT/RT)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(LF)	
411+25	NB RT	215				1	1	-	_		•	8			290	
415+50	NB RT	255				1	1	-		•	-	8			330	
486+00	NB LT	125				-		1	-				80	-	200	173.0B
486+00	NB RT	125				-			_			8		-	200	173.0B
120+60	SBLT	175				1	-					8			250	
211+40	SBLT	95				1	1		1			9			170	
227+00	SBLT	150				1	-					8			225	
269+80	SBLT	180				1	1		1			6			255	
274+90	SBLT	175				1	1		1			7			250	
415+50	SBLT	175				1	1		ı			8			250	
426+40	SBLT	75				1	1	-		•		5			150	
480+50	SBLT	175				1	1	-		•	-	8			250	
477+95	SBLT	155				1		1				8		1	230	173.0A
477+95	SBRT	155				1	•	1		•	-		8	1	230	173.0A
492+50	SB RT	280				1	-	-					11		355	
533+75	SBLT	175				-	1					8		-	250	
538+85	SBLT	165				-	1		1			7			240	
								-		•	-					
							-	-	-		-					
							•	•	1	•	•					
14101		0002		•	d	ļ	4	c	·	c	•	400			24.0	
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			ĘĄ.	<u>.</u>	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EĄ.	EA.	E	4	
VAL OF	ALL GUARDRA	IL (BRIDGE EF	ID SECTIONS,	REMOVAL OF ALL GUARDRAIL (BRIDGE END SECTIONS, W-BEAM, TYPE-I CABLE ANCHORAGE, T	-I CABLE ANCH	ORAGE, TERMI	NAL END SECT	TIONS, ETC.) V	VILL BE PAID UI	NDER PAY ITEN	FERMINAL END SECTIONS, ETC.) WILL BE PAID UNDER PAY ITEM 202-B REMOVAL OF GUARD RAIL.	OF GUARD RA	AL.			
VAL OF	* REMOVAL OF GUARDRAIL DELINEATORS ARE CONSIDERED INCIDENTAL TO THE REMOVAL OF (	ELINEATORS,	ARE CONSIDE	* REMOVAL OF GUARDRAIL DELINEATORS ARE CONSIDERED INCIDENTAL TO THE REMOVAL OF	IL TO THE REM		DRAIL AND WIL	L NOT BE ME.	GUARDRAIL AND WILL NOT BE MEASURED AS A SEPARATE PAY ITEM.	SEPARATE PAY	SUARDRAIL AND WILL NOT BE MEASURED AS A SEPARATE PAY ITEM.					

			-089	630-B002	
		Interst	Interstate Directional Signs, Bolted Ext	al Signs, Bo	olted Ext
		SIGN	SIZE	AREA	
STATION	NB/SB	NUMBER	(in. x in.)	(sf)	REMARKS
227+45	NB	-	36x132	33	Tougaloo College ->
220+45	NB	-	36x132	33	Tougaloo College Right Lane
234+45	SB	1	36x132	33	Tougaloo College <-
255+45	SB	-	36x132	33	Tougaloo College Left Lane
501+10	NB		24x84	14	Pocahontas
558+44	NB		42×120	35	Pocahontas 9 Yazoo City 36
571+25	NB	1	36x72	18	Madison County I-Beams
571+25	SB	1	36x60	15	Hinds County I-Beams
325+50	SB	-	36x144	36	Mississippi College Right I-Beams
320+75	SB		36x144	36	Mississippi College -> I-Beams
314+75	NB	•	36x144	36	Mississippi College Left I-Beams
302+00	NB		36x144	36	Mississippi College <- I-Beams
518+75	NB		36×108	27	Flora 5 Yazoo City 27 I-Beams
518+90	SB	-	24x84	14	Pocahontas on I-Beam
508+20	SB		18x36	4.5	Jackson 9 I-Beams
			Total	403.5	

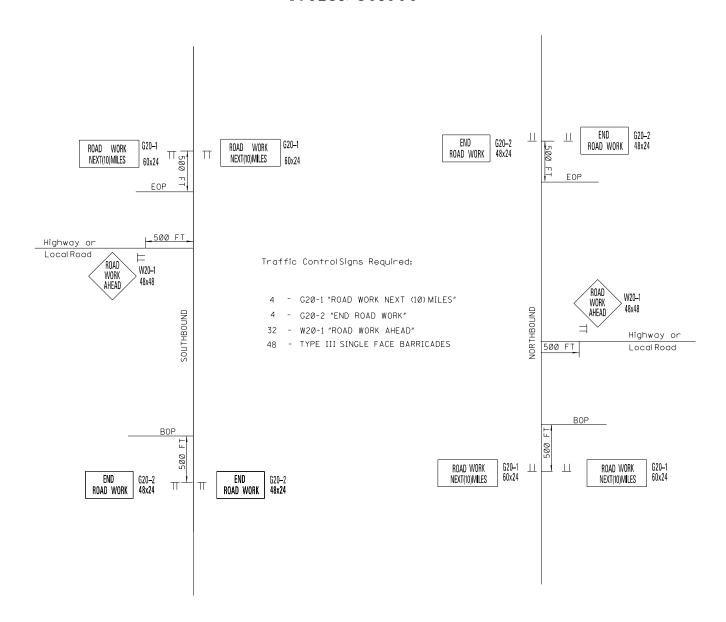
	Detection Zone		Detection	STOPBAR	Advance	Radar Cable		Existing Pole
Intersection	Location	Phase #	Zone Size	Radar Unit	Radar Unit	(ft)	Existing Controller Type	Configuration
	SB Left Turn Lane	1	6'X50'	1		160		
			330' from					
	SB Thru Lanes	6	STOPBAR		1	160		
	NB Left Turn Lane	5	6'X50'	1		450		
JS 49 at Kickapoo Road			330' from					
75 15 at Menapoo Noaa	NB Thru Lanes	2	STOPBAR		1	450	_	
	WB Lanes	3	6'X50'	1		330		
							M50 EPAC (one existing	
	EB Lanes	4	Existing Radar				Wavetronix Click 650 unit)	Mast Arm Pole
	SB Thru Lanes	6	6'X50'	1		200		
	NB Left Turn Lane	5	6'X50'					
US 49 at Presidential Dr US 49 at JFK Dr	NB Thru Lanes	2	6'X50'	1		100		
	WB Lanes	4	Existing Radar					
	EB Lanes	4	Existing Radar				M60 EPAC (existing Wavetronix Click 650 Unit)	Spanwire
	SB Thru Lanes	6	6'X50'	1		110		
	NB Left Turn Lane	5					i	
	NB Thru Lanes	2	Existing Radar					
	EB Lanes	4	Existing Radar				M60 EPAC (existing Wavetronix Click 650 Unit)	Spanwire
	SB Thru Lanes	6	6'X50'				,	
US 49 at Country Club/ Forest Ave Ext	SB Left Turn Lane	1	6'X50'	1		200		
	NB Thru Lanes	2	6'X50'	1		100		
	WB Lanes	8	Existing Radar					
							M60 EPAC (existing	
	EB Lanes	4	Existing Radar				Wavetronix Click 650 Unit)	Spanwire
			Total	8	2	2260		
							nall be responsible for transfering	

<sup>#2</sup> Radar units shall be mounted per manufacturer recommendations. Contractor shall be responsible for setting up all new signal controllers and detection units as per manufacturer recommendations

<sup>#3</sup> Contractor may remove existing detection loop cable, if necessary.

<sup>#4</sup> Cable quantities may be adjusted based on radar locations per manufacturer recommendations

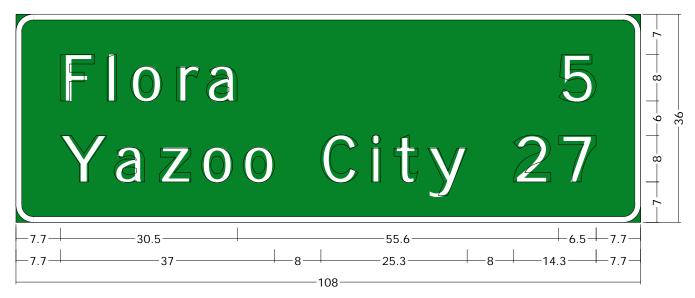
# CONSTRUCTION SIGNING DETAIL US 49 OVERLAY FROM Ø.45 MILES NORTH OF I-22Ø TO MADISON COUNTY LINE HINDS COUNTY 108231/301000



NOTES: One (1) W20-1 "ROAD WORK AHEAD" Sign is Required at each LocalRoad, Street, Ramps or Highway Entering the Project.

G20-1 and G20-2 signs mounted on Type III Single Faced Barricade.

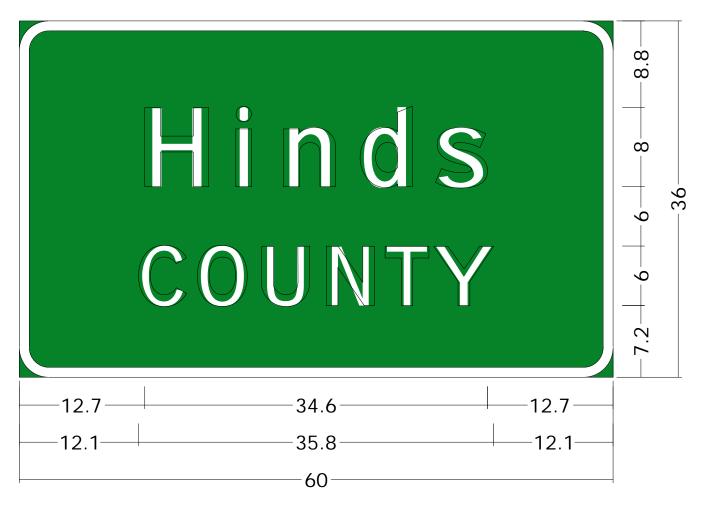
# 518+75 NB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

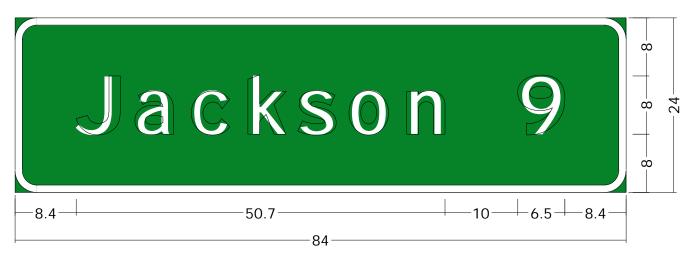
"Flora", E Mod 2K; "5", E Mod 2K; "Yazoo City", E Mod 2K; "27", E Mod 2K;

571+25 SB RIGHT SHOULDER



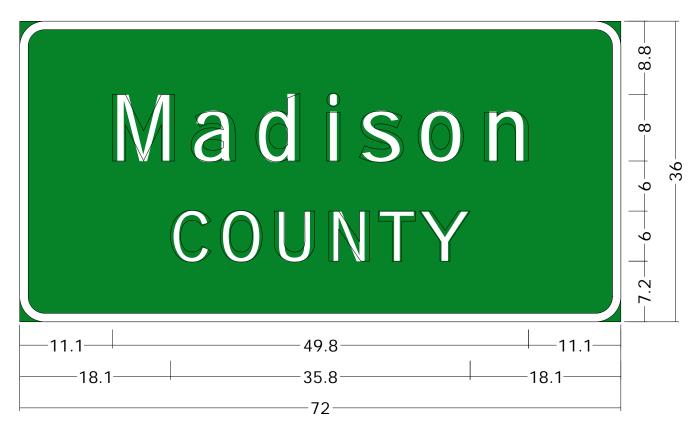
3.0" Radius, 1.0" Border, White on, Green; "Hinds", E Mod 2K; "COUNTY", E Mod 2K;

### 508+20 SB RIGHT SHOULDER



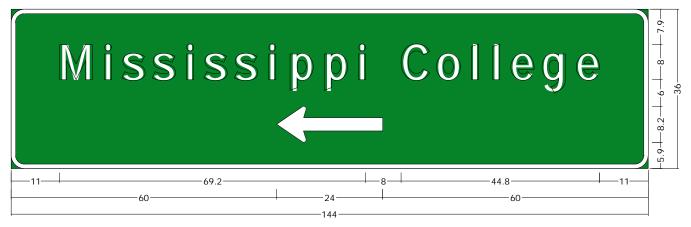
3.0" Radius, 1.0" Border, White on, Green; "Jackson", E Mod 2K; "9", E Mod 2K;

571+25 NB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green; "Madison", E Mod 2K; "COUNTY", E Mod 2K;

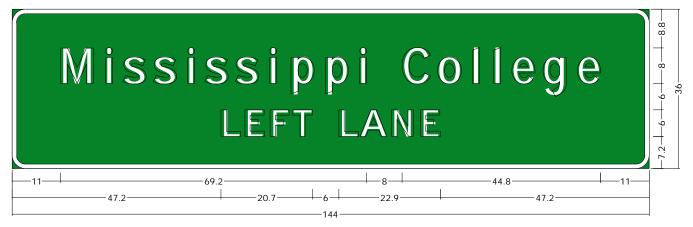
### 302+00 NB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Mississippi College", E Mod 2K; Standard Arrow Custom 24.0" X 8.1" 180';

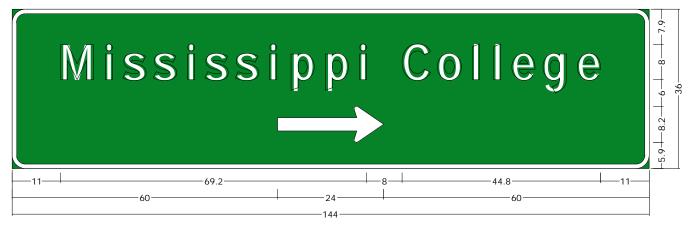
### 314+75 NB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Mississippi College", E Mod 2K; "LEFT LANE", E Mod 2K;

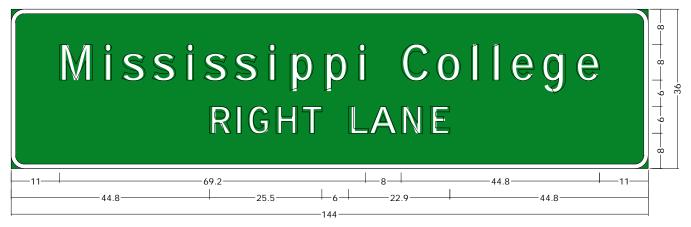
### 320+75 SB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Mississippi College", E Mod 2K; Standard Arrow Custom 24.0" X 8.1" 0';

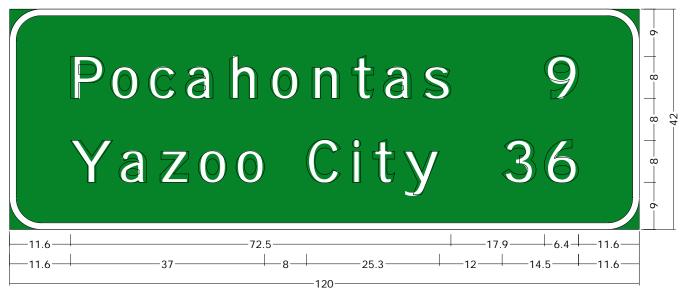
### 325+50 SB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Mississippi College", E Mod 2K; "RIGHT LANE", E Mod 2K;

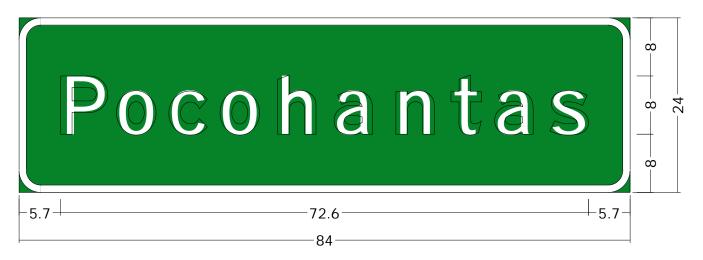
### 558+44 NB RIGHT SHOULDER



6.0" Radius, 1.3" Border, White on, Green;

"Pocahontas", E Mod 2K; "9", E Mod 2K; "Yazoo City", E Mod 2K; "36", E Mod 2K;

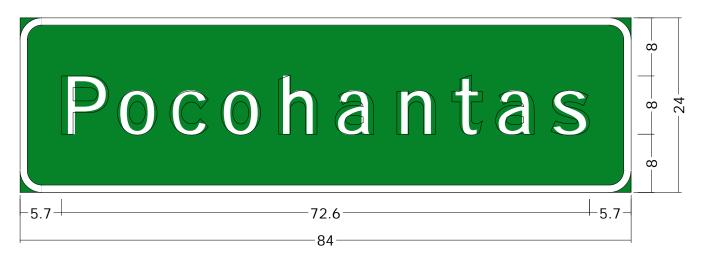
#### 501+10 NB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Pocohantas", E Mod 2K;

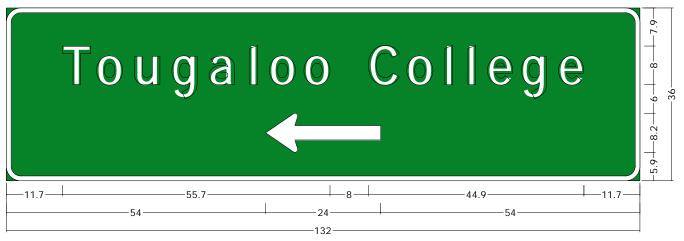
### 518+90 SB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Pocohantas", E Mod 2K;

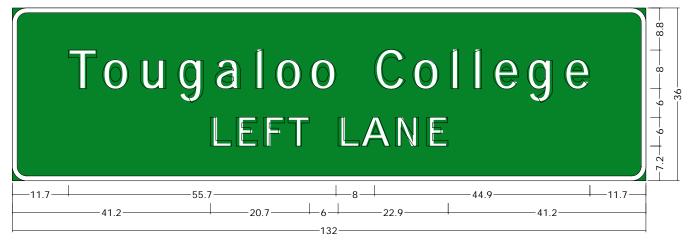
#### 234+45 SB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Tougaloo College", E Mod 2K; Standard Arrow Custom 24.0" X 8.1" 180';

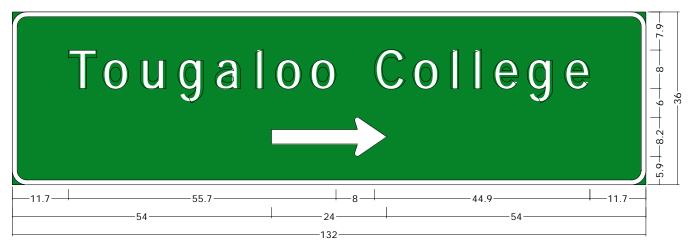
### 255+45 SB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Tougaloo College", E Mod 2K; "LEFT LANE", E Mod 2K;

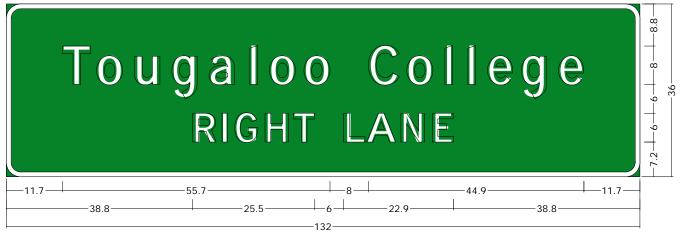
#### 270+45 NB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green;

"Tougaloo College", E Mod 2K; Standard Arrow Custom 24.0" X 8.1" 0';

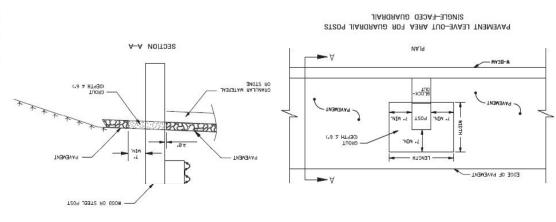
### 220+45 NB RIGHT SHOULDER

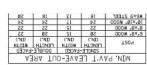


3.0" Radius, 1.0" Border, White on, Green;

"Tougaloo College", E Mod 2K; "RIGHT LANE", E Mod 2K;

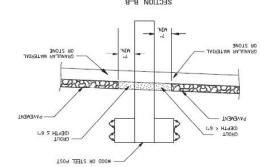
## Guardrail Post Installation in Paved Areas

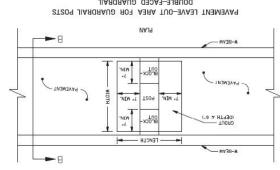




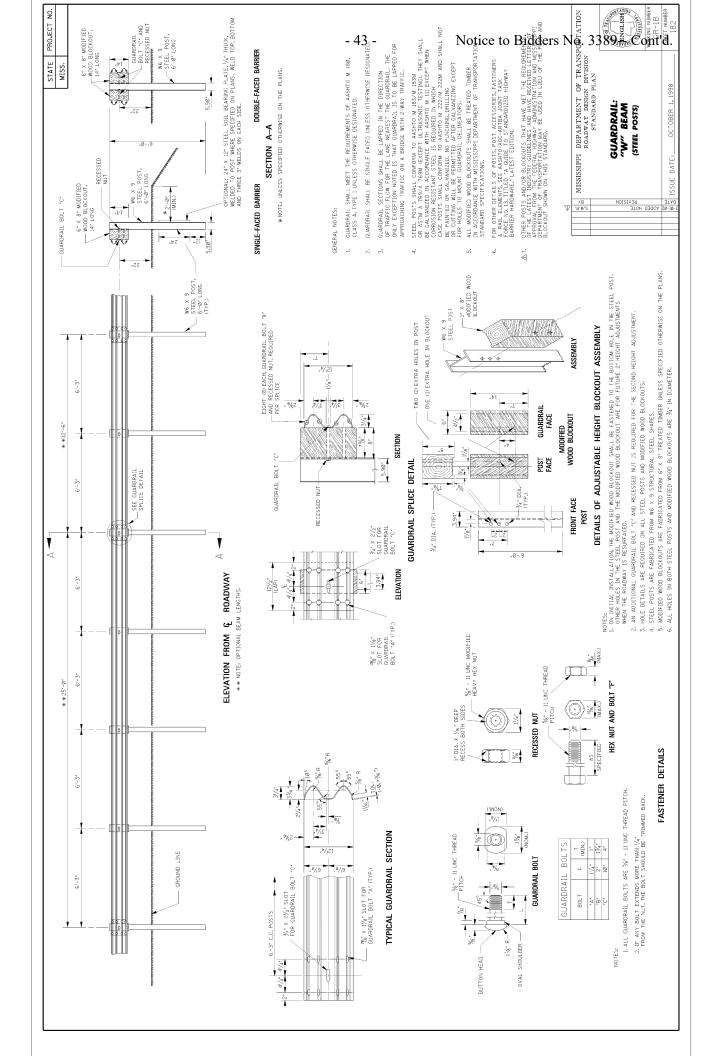
CERERAL NOTES

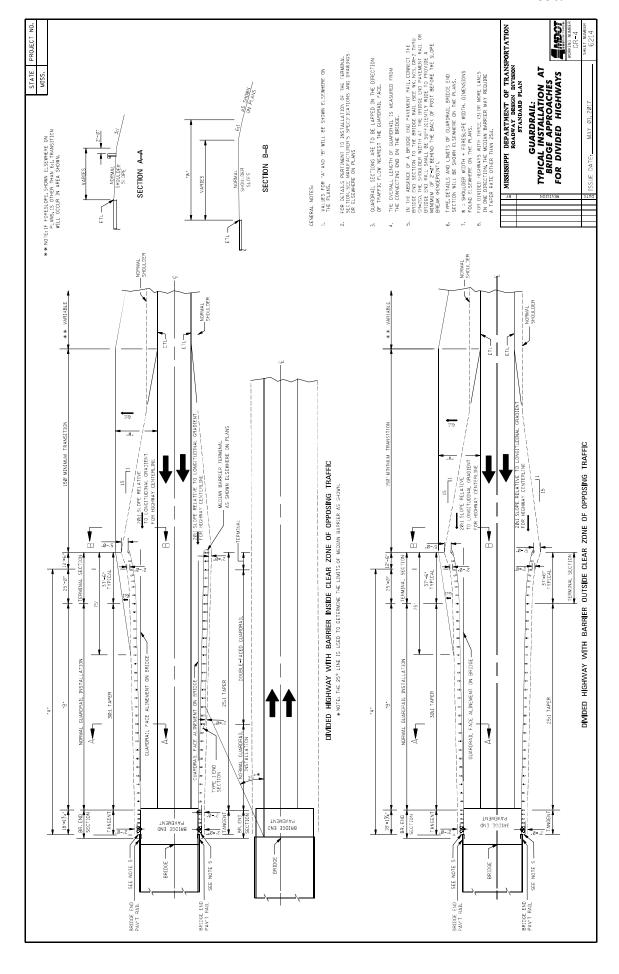
STANDARD EMBEDWENT DEPTHS STILL APPLY, WEASUMED FROM THE TOP OF THE PROJECTED PAVEMENT SURFACE.

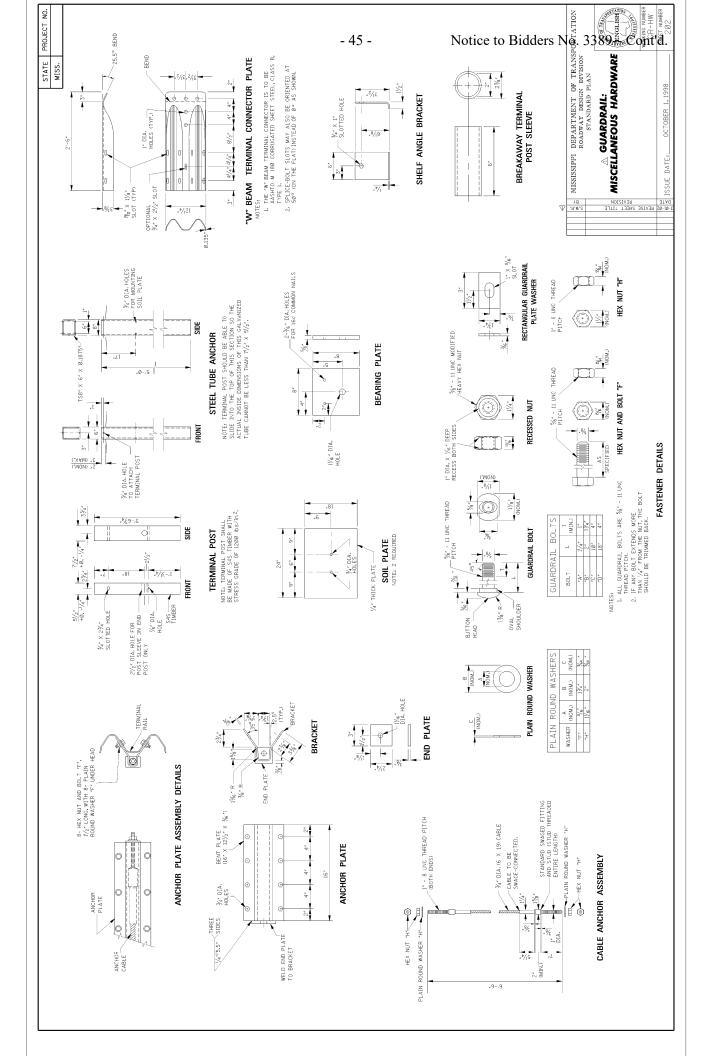


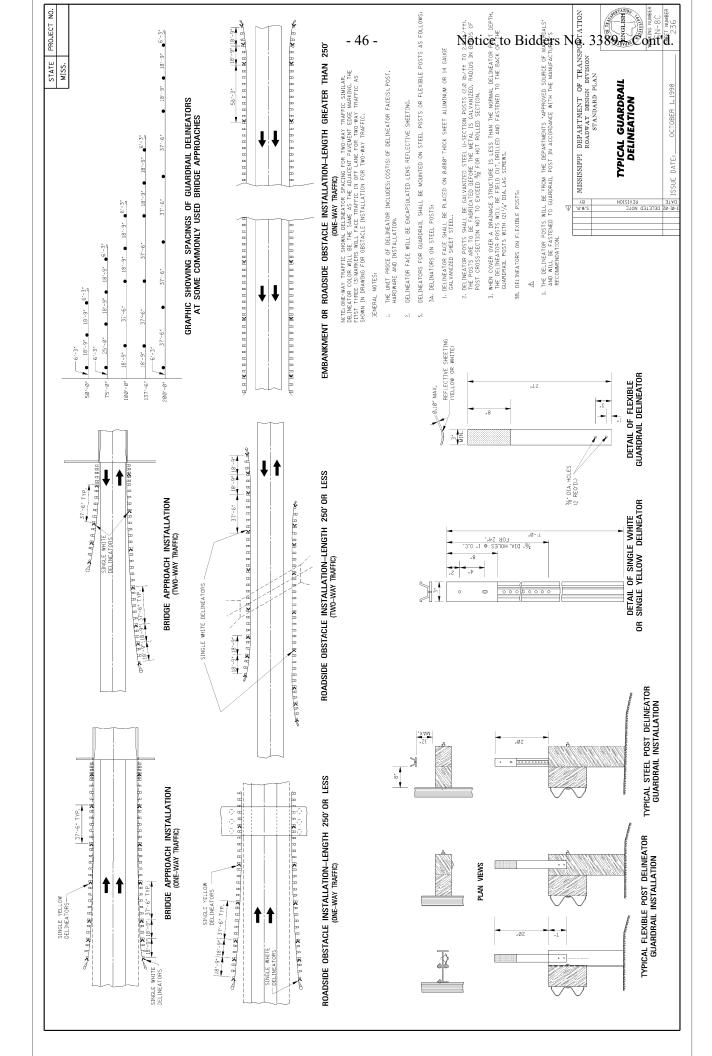


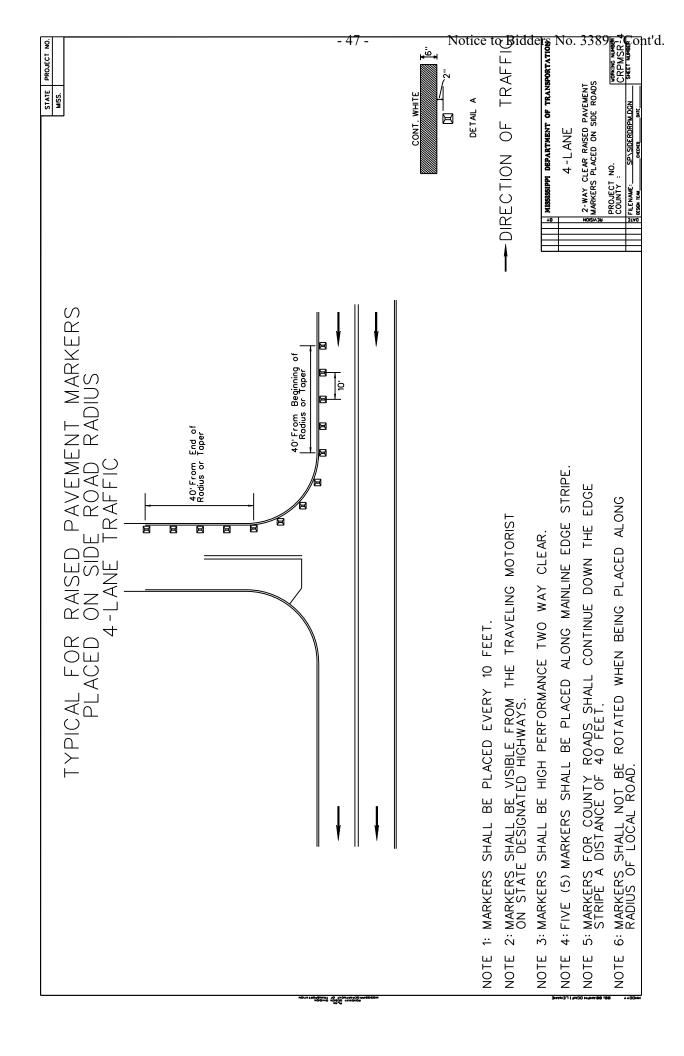
DOUBLE-FACED GUARDRAIL

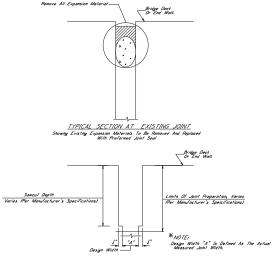




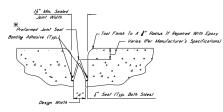








TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT Showing Limits OF what Proporation for Application Of New Joint Seek Materials And Security Seek Materials And Security



TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing Sealed Joint After Sawcut

#### \* MOTES

- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
  - A. Silicoflex Joint Sealing System
    Manufactured By R.J. Walson, Inc. In Alden, NY
    www.r.jwalson.com
  - B. Wabo 5P5 Joint System Manufactured By Walson Bowman Acme Corporation In Amherst, N www.wberop.com
  - C. Silspec 555 Silicone Strip Seal Manufactured By 551 Commercial & Highway Construction Material
- 2. For Estimating Purposes, The RJ. Watson Silicative Joint Sealing System Was Selected. However, Should Mather Supplier De Classen, It is The Contractor's Responsibility to Casure That The Menutecturer's Recommendations Are Followed For Joint Proposition, Installation Joydin, Air Willias, Advances Selfing Times, Manufacturer Representative Shall De Present At The Time Joint Sealing Begins In Engineer That The Contractor is Propored, Schooled in Installation Of the American Service Schooled in Statistical Contractor is Propored, Schooled in Installation Of the American Service Schooled in Statistical Contractor is Propored.
- 3. Joints Shall Bu Scoled of Their Design Wildles, Discussion 3.4 Which is Delived in the Actual World Of the Joint Ogening, This Wild Doos had recount for The it Seat Required On Both Sides Of The Joint, Preference Joint Seat, Type 1, Shall Bu Side for Decognition of the Sides of the Sides of the Seat of Sides of

#### NOTES ON ASSOCIATED ITEMS OF WORK:

#### 907-808-A002 JOINT REPAIR

0.....

Payment: The Accepted Quantities Will Be Paid For In Linear Fe

The Contract Unit Price Along The Length Of The Br.

7-808-4003 JOINT REPAIR WITHOUT EPOXY

- SON BOO SON REPAIR WITHOUT EFONT

Shall Include The Work Necessary to Negar Joints In Proportion for the Potenneal Of New Expansion Malerial, As Designette The Detail Designs Provided Recovery to Design the Control of the Potential Provided Recovery As a Shall Be Included India The Mod Work. All Other Requirements Shall Be Included India This Mod Mark All Other Requirements Shall Be In Accordance With The Applicable Provision Of Section 608 Of The Specifications And Any Other Sections

Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At
The Contract Unit Price Alone The Length Of The Bridge Deck

ON EACH SIDE OF THE CENTERINE JOHN.

secription: The Saw Cut, Danth Shall Re Equipplant To The Installation Of

Required By The Manufacturer's Specifications, The Saw Cut I Type Shall Be The Same As The Preformed Joint Seal Selected.

asis of Psyment: The Accepted Quantities Will be Paid for In Linear Feet At The Confract Unit Price Mang The Length Of The Bridge Deci On Each Side Of The Centerline Joint, It is The Contractor Responsibility To Ensure That The Proper Depth is Selected

Based On The Manufacturer's Recomendations,

907-823-4001 PREFORMED JOINT SEAL, TYPE / 907-823-4002 PREFORMED JOINT SEAL, TYPE //

Description: Shall include in Remarks Liver's Required Joint Preparation Including Sandblasting Both Sides Of The Joint And Blowing The Joint Free Of Debris With Compressed Air And Placement Of The New

reformed Joint Seal The Accented Ovantitis

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At
The Contract Unit Price Along The Length Of The Centerline

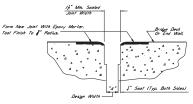
Join!.

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

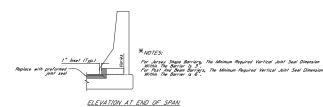
EPOXY MORTAR AND POLYMER CONCRETE NOTES: Either Epoxy Martar Or Polymer Concrete May Be Used. Guidelines For Selection Of Materials Can Be Found In Section 808 of the Specifications.

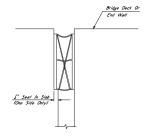
#### GENERAL NOTES:

- 1. Specifications: Mississippi Standard Specifications For Road
- 2. No Change Of Plans Will Be Permitted Except By Written
  Approval Of The Director Of Structures, State Bridge Engineer,
  Minor Changes To Detail Of Design Or Construction Procedure
  May Be Authorized By The Bridge Engineer Provided Such Chang
- May be Authorized by the Bridge Engineer Provided Such Chang Will Not Be Couse For Contract Price Adjustment, opposit Will 3. Work For Which No Pay Item Is Provided In The Processal Will Not Be Paid For Directly And Shall Therefore Be Considered A



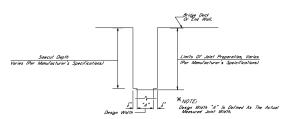
TYPICAL SECTION AT SAWCUT & JOINT REPAIR
Showing Area Where Repairs Are Made After Sawcut,
With Epoxy Morter Or Approved Equivalent





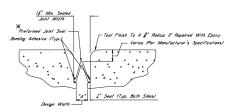
TYPICAL SECTION AT EXISTING JOINT

Showing Existing Expansion Device To Be Removed And Replaced
With Preformed Joint Seel



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT.

Showing Limits Of Joint Proporation for Application Of New Joint
Seek Materials And Joseph



TYPICAL SECTION AT SAWCUT & SEALED JOINT

The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:

A. Silicoflex Joint Sealing System
Manufactured By R.J. Watson, Inc. In Alden, NY
www.riwafson.com

#### NOTES ON ASSOCIATED ITEMS OF WORK:

#### 907-808-A002 JOINT REPAIR

Description:

907-808-4003

907-823-8001 SAW CUT, TYPE / 8 907-823-8002 SAW CUT, TYPE //

907-823-A001 PREFORMED JOINT SEAL, TYPE ! 907-823-A002 PREFORMED JOINT SEAL, TYPE !!

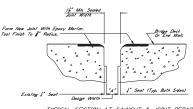
Shall Include The Manufacturer's Required Joint Preparation Including Sandhasting Both Sides Of The Joint And Blowing The Joint Free Of Dath's With Compressed Air And Placement Of The New Preformed Joint Seal

EPOXY MORTAR AND POLYMER CONCRETE NOTES: Either Epoxy Morter Or Polymer Concrete May Be Used. Guitelines For Selection Of Materials Can Be Found In Section 808 of the Specifications.

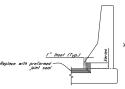
#### GENERAL NOTES:

- Specifications. After 2 (pp. 5) united. Specifications. For Road to Bright, Control 160.

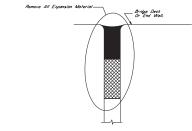
  No. Chappe Of Pines. Will be Premitted. Except by Written Approach of The Direction of Structures. Solid bright engineer. After the Authorized by The Bright Engineer. Provided Social Control Will had be acted for the Bright Engineer. Provided Social Chapter 2 (pp. 160.) And the Structure of the Bright Engineer. Provided Social Chapter 2 (pp. 160.) And the Provided Social Chapter



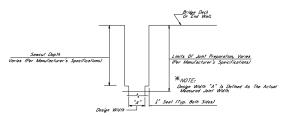
TYPICAL SECTION AT SAWCUT & JOINT REPAIR
Showing Area Where Repairs Are Made After Sawcut,
With Epoxy Mortar Or Approved Equivalent



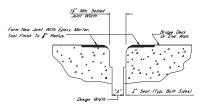
ELEVATION AT END OF SPAN



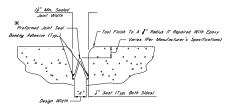
TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Material To Be Removed And Repla
With Preformed Joint Seal



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT Showing Limits Of Joint Proporation For Application Of New Joint Seal Materials And Security Seal Materials And Security



IYPICAL SECTION AT SAWCUT & JOINT REPAIR
Showing Area Where Repairs Are Mode After Sawcut,
With Epoxy Mortar Or Approved Equivalent



TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing Seeled Joint After Sowcut And
Repair With Epoxy Montar

#### \*\* NOTES:

- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
  - A. Silicoflex Joint Sealing System Manufactured By R.J. Watson, Inc. In Alden, NY www.r.jwatson.com

#### NOTES ON ASSOCIATED ITEMS OF WORK:

907-808-A002 JOINT REPAIR

907-823-A001 PREFORMED JOINT SEAL, TYPE I 907-823-A002 PREFORMED JOINT SEAL, TYPE II

Shall Include The Manufacturer's Required Joint Preparation Including Sandblasting Both Sides Of The Joint And Blowing The Join Free Of Debris With Compressed Air And Placement Of The New Preformed Joint Seal

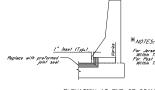
The Accepted Ovantities Will Be Paid For In Linear Feet Al The Contract Unit Price Along The Length Of The Centerline Initial

EPOXY MORTAR AND POLYMER CONCRETE NOTES: Either Epoxy Mortar Or Polymer Concrete May Be Used. Guidelin For Selection Of Materials Can Be Found In Section 808 of the

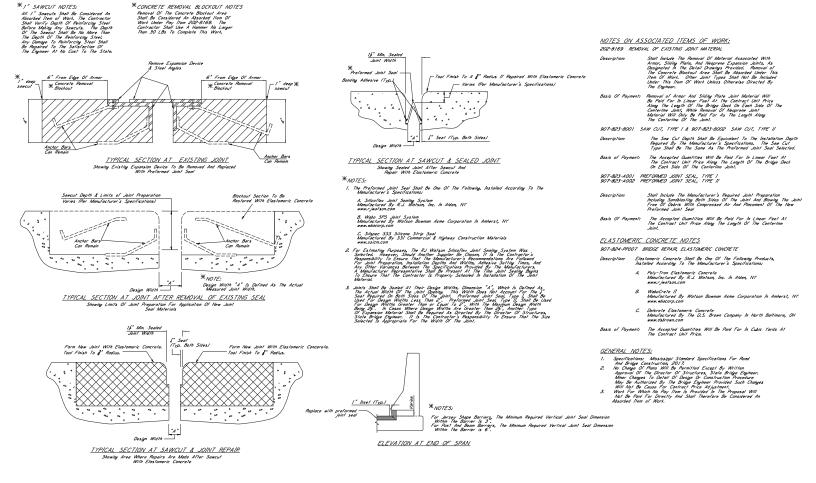
#### GENERAL NOTES:

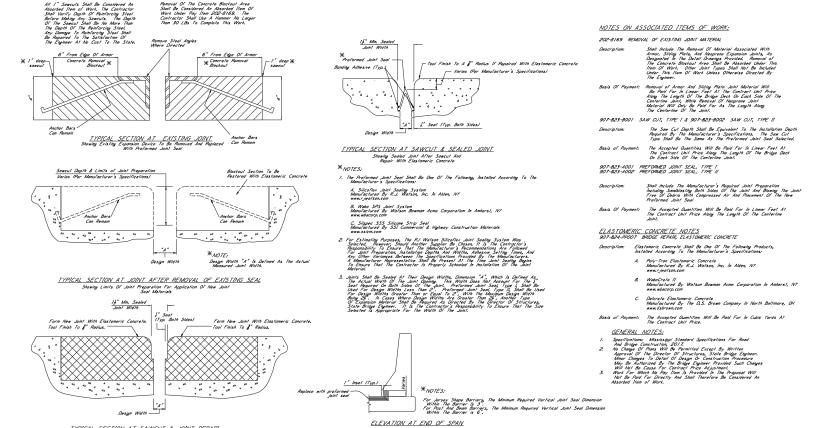
Shape Barrierz, The Minimum Required Vertical Joint Seal Dimension Barrier Is 3 . d Beam Barriers, The Minimum Required Vertical Joint Seal Dimension Barrier is 6 .

- SUCHEL VICTES.
  Specifications: Massissippi Stantand Specifications For Road And Bridge Construction, 2017.
  His Change of Den Will be Fermilled Excell by Written to Change of Den Will be Fermilled Excell by Written to Change in Delaid of Delaign to Construction Procedure. More Changes to Delaid of Delaign to Construction Procedure Will Not De Conserted by The Bridge Engineer Provided Socio Changes Will Not De Conser for Contract Price Adjustment. Work for Which to Psy Home I Provided In The Proposal Will Not De Paul For Devector, And Shall Therefore the Considered In Adaptive Him al West.



ELEVATION AT END OF SPAN

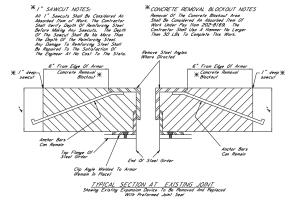


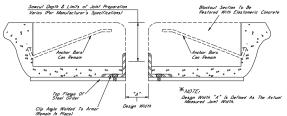


TYPICAL SECTION AT SAWCUT & JOINT REPAIR

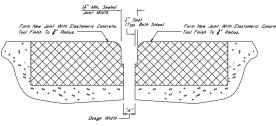
Showing Area Where Repairs Are Mode After Sawcut

With Elastomeric Concrete





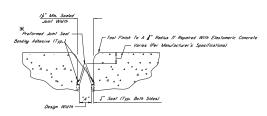
TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL
Showing Limits Of Joint Proparation For Application Of New Joint
Seal Materials



TYPICAL SECTION AT SAWCUT & JOINT REPAIR

Showing Area Where Repairs Are Made After Sawcut

With Elestomeric Concrete



TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing Sected Joint After Sewcut And
Repair With Elastomeric Concrete

The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:

A. Silicoflex Joint Sealing System
Manufactured By R.J. Watson, Inc. In Alden, NY
www.riwalson.com

### NOTES ON ASSOCIATED ITEMS OF WORK: 202-8169 REMOVAL OF EXISTING JOINT MATERIAL

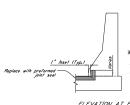
907-823-A001 PREFORMED JOINT SEAL, TYPE I 907-823-A002 PREFORMED JOINT SEAL, TYPE II

### ELASTOMERIC CONCRETE NOTES

Description: Elastomeric Concrete Shall Be One Of The Following Prop Installed According To The Manufacturer's Specifications:

Poly-Tron Elastomeric Concrete Manufactured By R.J. Watson, Inc. In Alden, NY www.rjwatson.com

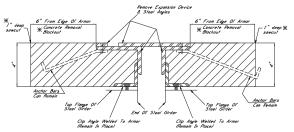
Basis of Payment: The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

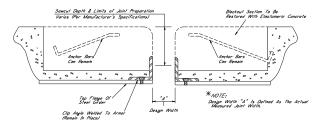


For Jersey Shape Barriers, The Minimum Required Vertical Joint Jean unoversamm Within The Barrier Is 3 For Post And Jean Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier is 6

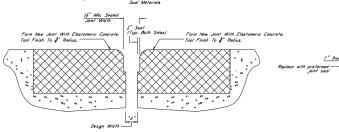
ELEVATION AT END OF SPAN



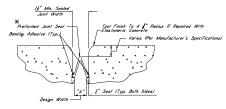




TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL Showing Limits Of Joint Proporation For Application Of New Joint Seat Materials



TYPICAL SECTION AT SAWCUT & JOINT REPAIR
Showing Area Where Repairs Are Mode After Sawcul
With Elastomeric Concrete



TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing Sealed Joint After Sawcut And
Repair With Elastomeric Concrete

The Preformed Joint Seal Shall Be One Of The Following, Installed Accordance furer's Specifications:

A. Silicoffex Joint Sealing System Manufactured By R.J. Watson, Inc. In Alden, NY www.r.jwatson.com

\*NOTES:

ELEVATION AT END OF SPAN

B. Wabo SPS Joint System
Manufactured By Watson Bowman Acme Corporation In Amherst, NY
www.wheelor.com

#### NOTES ON ASSOCIATED ITEMS OF WORK:

202-8169 REMOVAL OF EXISTING JOINT MATERIAL

907-823-8001 SAW CUT, TYPE 1 & 907-823-8002 SAW CUT, TYPE 11 The Saw Cut Depth Shall Be Equivalent To The Installation Dep Required By The Manufacturer's Specifications, The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected

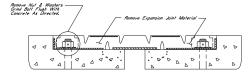
The Accepted Ovantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.

907-823-4001 PREFORMED JOINT SEAL, TYPE I 907-823-4002 PREFORMED JOINT SEAL, TYPE II

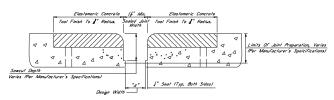
## ELASTOMERIC CONCRETE NOTES 907-824-PP007 BRIDGE REPAIR, ELASTOMERIC CONCRETE

Elastomeric Concrete Shall Be One Of The Following Proof Installed According To The Manufacturer's Specifications:

nt: The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

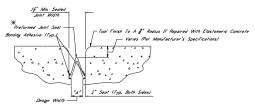


TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Device To Be Removed And Replaced
With Preformed Joint Seal



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL
Showing Limits Of Joint Proporation For Application Of New Joint
Seal Materials

\*NOTE:
Design Width "A" Is Defined As The Actual
Measured Joint Width.



#### TYPICAL SECTION AT SAWCUT & SEALED JOINT howing Sealed Joint After Sawcut A Repair With Elastomeric Concrete

The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:

A. Silicoflex Joint Sealing System
Manufactured By R.J. Watson, Inc. In Alden, NY
www.rieafson.com

NOTES ON ASSOCIATED ITEMS OF WORK;

The Saw Cut Depth Shall Be Equivalent To The Installation Dept. Required By The Manufacturer's Specifications, The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected.

The Accepted Ovantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.

907-823-A001 PREFORMED JOINT SEAL, TYPE | 907-823-A002 PREFORMED JOINT SEAL, TYPE ||

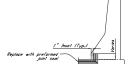
The Accepted Quantities Will Be Paid For In Linear The Contract Unit Price Along The Length Of The Cellins

ELASTOMERIC CONCRETE NOTES 907-824-PP007 BRIDGE REPAIR, ELASTOMERIC CONCRETE

Description: Elastomeric Concrete Shall Be One Of The Following Prop Installed According To The Manufacturer's Specifications:

A. Poly-Tron Elastomeric Concrete
Manufactured By R.J. Watson, Inc. In Alden, NY
www.rjwatson.com

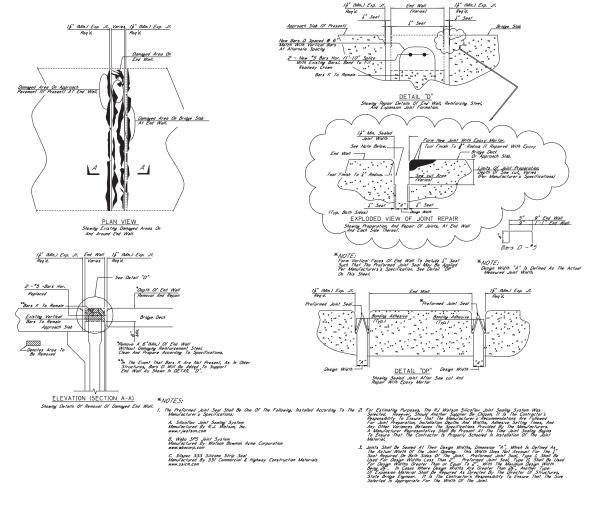
Basis of Payment: The Accepted Quantities The Contract Unit Price.



\* NOTES:

ELEVATION AT END OF SPAN

### GENERAL NOTES:



NOTES ON ASSOCIATED ITEMS OF WORK: 907-824-PP008 BRIDGE REPAIR, ENDWALL REPAIR

Shall Include The Work Necessary To Remove And Replace The Endwall, As Designated In The Detail Drawings Provided. Instea Limiting The Repair To The Damaged Section, The Specified De, Endwall Shall De Removed Along The Entire Width Of The Dring

Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Width Of The Bridge Deck.

Damage Coused To Other Elements Of The Structure Or Roadway While Completeing This Item Of Work Shall Be Repaired By The Contractor At No Cost To The Department

2500 psi prior to releasing to traffic 3-6% 6 inches

REMOVAL OF EXISTING JOINT MAY JOINT REPAIR WITHOUT EPOXY SAW CUT, TYPE I SAW CUT, TYPE I PREFORMED JOINT SEAL, TYPE I PREFORMED JOINT SEAL, TYPE II

GENERAL MILES:
Succileations, Messagio Standerd Specifications for Robed And Englage Construction, 2017.

In General Specifications of Messagio Standard Specifications for Robed And Englage Construction, 2017.

In Congress of Phase Will But Not Interference, State Bridge Construction Proceedings of Messagio Construction Procedures, Major Englanding of the Englage Construction Procedures, Major See Application of the Phase Office Construction Procedures, Major See Application of the Phase See Theory of the Proposition of the Phase See Theory of the Proposition of World See Application of Wo