

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. <u> 1 </u>	DATED <u> 5/12/2023 </u>	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____

Number	Description
1	Revised NTB No. 4187; Revised Bid Items; Amendment EBSx 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.

SP-2791-00(009)/ 108265301000 & SP-2791-00(010)/ 108266301000

Yalobusha & Calhoun County(ies)

Revised 01/26/2016

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4187

CODE: (SP)

DATE: 05/12/2023

SUBJECT: Scope of Work

**PROJECT: SP-2791-00(009) / 108265301 – Yalobusha County &
SP-2791-00(010) / 108266301 - Calhoun 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”.

The work to be accomplished using the pay items and corresponding specifications set forth in this contract is for the full depth reclamation with a Double Bituminous Surface Treatment of State Route 32, beginning at the intersection with Old Highway 7 in Water Valley and going easterly for approximately 21.3 miles to State Route 330.

Termini:

Yalobusha County:

Old Highway 7 (MP:18.368) to Calhoun County Line (MP:28.809) (10.44 Miles)

Calhoun County:

Yalobusha County Line (MP:0.000) to State Route 330 (MP:10.822) (10.82 Miles)

It shall be the responsibility of the Contractor to protect the roadway and all existing structures, such as bridges and curb, from damage occurring as a result of the Contractor’s operations. Damages to existing features caused by the Contractor’s operations shall be repaired or replaced at no cost to the Department.

At bridge ends and at the end of workday, a taper of one vertical inch (1”) for each three horizontal feet (3’) shall be provided.

The Contractor shall make a utility location request to 811 prior to any excavation, except for trench widening or pavement removal/repair.

In order to expedite the safe movement of traffic and to protect each phase of the work as it is performed, a firm sequence of operations is essential. The work shall be begun and continually prosecuted.

The work shall consist of the following:

1. The Contractor shall erect and maintain 40 mile per hour signs and gravel road signs throughout the project at 1-mile alternating intervals. These signs will be included in pay item

618-A: Maintenance of Traffic. The project shall be divided into seven (7) sections. The roadway will be closed to through traffic in one section at a time until reconstruction work is complete in that section. No more than one section can be closed at a time. Ingress and egress of local traffic will be allowed for destinations within a section of closed roadway. After all necessary work through the placement of at least a single seal course and temporary traffic stripe is completed to the satisfaction of the Engineer in a section, that section shall be reopened to traffic and work can begin in another section. Once a section of the project is reopened to traffic, all traffic control standards for a two-lane roadway shall apply for all subsequent work.

Section	Termini				Length
	From	MP	To	MP	
1	B.O.P	18.37	W. Br. End	20.16	1.79
2	E. Br. End	20.21	CR 123	22.84	2.63
3	CR 123	22.84	CR 212	25.95	3.11
4	CR 212	25.95	Calhoun CL	28.81	2.86
5	Calhoun CL	0.00	CR 235	3.09	3.09
6	CR 235	3.09	CR 260	7.07	3.98
7	CR 260	7.07	SR 330	10.82	3.75

Changeable message signs shall be in place at the approaches of each section seven (7) days prior and during the closure of the road. Type III barricades with ROAD CLOSED TO THRU TRAFFIC (R11-4) shall be provided at the termini of each section with the cost being included in pay item 618-A: Maintenance of Traffic. Concrete driveways (Yalobusha County) at the following locations will have to be sawcut and removed to 12' from centerline of the roadway.

Station #	Length	Width	SY
1+35	31	2	6.89
2+20	70	2	15.56
4+50	65	2	14.44
10+50	59	2	13.11
28+80	20	2	4.44
71+15	31	2	6.89
79+15	24	2	5.33
304+65	48	2	10.67
446+85	28	2	6.22
490+90	51	2	11.33
			94.89

2. The Contractor shall pulverize and mix the sub-grade/asphalt according to Special Provision 907-424, Roadbed Reclamation. The mixing depth will be nine inches (9") deep. The volume of cement to be mixed will be six (6%) percent by volume. The majority of the material to be mixed will be approximately six inches (6") and variable of stripped asphalt and three inches (3") of granular base. Traffic shall not be allowed on the reclamation area for a period of three (3) hours after final mixing and compaction. The total mixing width shall be twenty-four feet (24') wide. The Contractor will have the option to seal the reclamation area by placing a curing

seal with sand blotter material or keep the reclamation area damp at all times until the chip seal course is placed. The Contractor will open lanes up for two-way local traffic only at the end of each day.

The pulverized section shall be placed on grade and the required cross-slopes established prior to spreading of cement. The horizontal curves shall be placed on the proper cross slopes, as provided by the Department, with the pulverized material. The maximum amount of material to be moved shall not be more than three inches (3") in depth.

NOTE: Horizontal curve at Station 370+59 (Yalobusha County) will be reconstructed at the existing cross slopes with the reclaimed material.

NOTE: The following locations will be omitted from the full depth reclamation.

Yalobusha County

Station 83+00 to Station 112+00 *

Station 137+00 to Station 139+00

Station 418+75 to Station 427+25

* Equation 87+00 BK = 27+00 AH

* Equation 49+40.48 BK = 110+58.56 AH

Calhoun County

Station 181+00 to Station 188+00

Station 388+00 to Station 411+00

Station 46+50 to Station 48+50

NOTE: The following pipe crossings could be damaged during the reclamation process. The Contractor is advised to field verify the depth of these pipes and adjust the mixing depth to prevent any damage at these locations.

Station #	Cover (feet)
Yalobusha County	
3+39	1.4
8+19	2.1
22+30	1.6
29+73	1.7
33+65	1.7
39+81	1.1
64+00	1.1
81+00	1.3
374+44	1.4
433+30	1.3
472+15	1.4
505+05	1.3
513+75	1.5

Calhoun County	
Station #	Cover (feet)
52+50	1.6
62+40	1.4
91+00	1.1
96+85	1.2
115+80	1.7
131+00	2.5
138+00	2.9
160+50	2.9

- Grade stakes and tolerances for the reclaimed roadbed will follow the specifications for Bases listed in Subsection 321.03.7.2.2 of the Standard Specifications. The Contractor will be required to profile the existing centerline prior to the pulverization of the roadbed. The existing centerline grade shall be established with an acceptable profile grade prior to placement of the chip seal. The reclaimed roadbed shall be reconstructed to a negative two percent (-2%) cross slope or the appropriate super elevation rate. The trimmed material will be allowed to be placed along the shoulders of the highway as long as it can be mixed, incorporated and graded to a negative four percent (-4%) cross slope or the appropriate slope in super elevated sections. The Contractor shall be required to maintain the centerline alignment of the existing roadway. The Contractor shall ensure the finished mixed roadbed will allow for a smooth tie in of the existing asphalt surface course at all project limit tie-ins. Construction staking shall be required on this project and shall be in accordance with Section 699, Construction Stakes.

The Contractor shall utilize the proper surveying equipment that will ensure the grade control operations meet the acceptable tolerances for grade and cross-slopes. Grade stakes shall be set at 50-foot intervals in tangent sections and 25-foot intervals in curves.

4. A double bituminous surface treatment shall be placed on the previous reclaimed base. All roadway surfaces shall be broomed before the placement of the CRS-2P material. The application rate of CRS-2P shall be per the table listed below or as directed by the Engineer depending on field conditions.

Seal aggregates shall be placed in accordance with the requirements specified in Section 410 of the Standard Specifications and per the table listed below or as directed by the Engineer depending on field conditions.

Application Rate			
Application	CRS-2P (gal/sy)	Cover Agg. (#7) (ft ³ /sy)	Cover Agg. (#89) (ft ³ /sy)
1 st Course	0.39 – 0.44	0.25 – 0.31	
2 nd Course	0.39 – 0.44		0.25 – 0.31

All traffic control needed for the chip seal work shall be included in pay item 618-A: Maintenance of Traffic. The Contractor shall place temporary centerline strip and chip seal reflective raised markers at the end of each days run along the centerline of the highway. Costs of the chip seal reflective raised markers shall be included in pay item 618-A: Maintenance of Traffic.

A minimum of a single chip seal course shall be placed on the reclaimed roadbed within three (3) calendar days of mixing. The Contractor will be charged a fee of \$5,000.00 for each full or partial day in which the reclaimed roadbed area is left uncovered after the three (3) calendar days.

5. A single bituminous surface treatment shall be placed on the following sections:

Yalobusha County

Station 83+00 to Station 112+00 *

Station 137+00 to Station 139+00

Station 418+75 to Station 427+25

* Equation 87+00 BK = 27+00 AH

* Equation 49+40.48 BK = 110+58.56 AH

Calhoun County

Station 181+00 to Station 188+00

Station 388+00 to Station 411+00

Station 46+50 to Station 48+50

Application Rate	
CRS-2P (gal/sy)	Cover Agg. (#89) (ft ³ /sy)
0.39 – 0.44	0.25 – 0.31

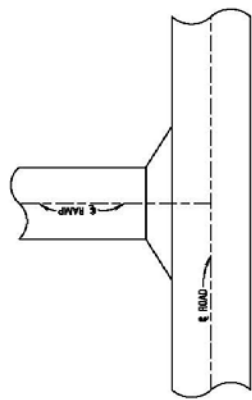
6. Temporary traffic stripe shall be placed daily as per Section 618 of the Standard Specifications.
7. A fog seal shall be placed on the final chip sealed surface at a rate of 0.11 gal/sy, or as directed by the Engineer. The fog seal shall be placed within 72 hours after completion of the chip seal placement.
8. Permanent pavement markings (thermoplastic striping, two-way clear reflective high performance raised markers and two-way yellow reflective high performance raised markers) shall be placed as required.
9. All existing post mounted standard roadside signs as shown in the attached tables shall be removed and relaced. Existing signs will become the property of the Department. Signs will be delivered to the maintenance shop located on 14510 CR 436 in Coffeerville. The sign post shall become the property of the Contractor. Signs on existing round pipe post will be replaced on the existing post. The cost of the removal of the existing sign shall be included in other items of work. The Contractor is required to verify the sign and post quantity prior to ordering material.

The Contractor shall provide all signs and traffic handling devices necessary to safely maintain traffic around or through the work areas.

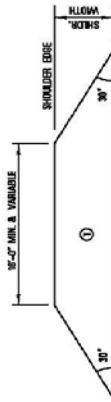
Incidental work such as removing vegetation, shaping and compaction of shoulder, necessary and incidental grading of roadway ditches and other incidental work that is necessary to complete the work will not be measured for separate payment and the cost will be included in the bid items provided.

The Engineer may direct the use of additional cones at County roads or intersections within lane closures and will be absorbed in pay item 618-A: Maintenance of Traffic.

STATE	PROJECT NO.
MISS.	



PLAN VIEW OF RAMP



DETAIL OF PAVED APRON

① 1'-4" & VARIABLE DEPTH ASPHALT PAVEMENT REQUIRED



MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
MISCELLANEOUS DETAIL	
PROJECT NUMBER	MIS-1
SHEET NUMBER	
FILE NAME	MSL1
DATE	08/03/04
BY	
CHECKED	
APPROVED	

Yalobusha County

Station #	Lane	Sign Description	Sign Code	Removal U-Channel	Notes	Type 3 OM	0.08"	0.1"	0.125"	Square Tube Post 2.0 lb/ft
+80	R	SR 32	M1-6	1			4			15
+80	R	East	M3-2		same post as SR 32		2			
2+25	L	Right Arrow	M5-1R	1			2.19			15
2+25	L	SR 32	M1-6		same post as right arrow		4			
2+25	L	West	M3-4		same post as right arrow		2			
5+30	R	No Parking Any Time	R7-1	1			1.5			15
5+30	R	No Parking Any Time	R7-1		same post as no parking any time		1.5			
6+15	L	Stop Ahead Symbol	W3-1a	1					9	15
7+10	R	No Parking Any Time	R7-1	1			1.5			15
7+10	R	No Parking Any Time	R7-1		same post as no parking any time		1.5			
8+05	R	No Parking Any Time	R7-1	1			1.5			15
8+05	R	No Parking Any Time	R7-1		same post as no parking any time		1.5			
9+40	R	No Parking Any Time	R7-1	1			1.5			15
9+40	R	No Parking Any Time	R7-1		same post as no parking any time		1.5			
9+75	R	Right Curve Ahead	W1-2R	1					9	15
13+80	L	Speed Limit 35	R2-1	1			5			15
21+20	R	Speed Limit 45	R2-1	1			5			15
21+25	L	Left Curve Ahead	W1-2L	1					9	15
22+30	Both	Type 3 OM's	OM-3L & R	2		4				0
29+75	Both	Type 3 OM's	OM-3L & R	2		4				0
33+75	Both	Type 3 OM's	OM-3L & R	2		4				0
34+40	R	Speed Limit 55	R2-1	1			5			15
34+60	L	Speed Limit 45	R2-1	1			5			15
39+75	Both	Type 3 OM's	OM-3L & R	2		4				0
47+00	Both	Type 3 OM's	OM-3L & R	2		4				0
47+15	R	Side Road Left	W2-2L	1					9	15
49+21	Both	Type 3 OM's	OM-3L & R	2		4				0
52+50	L	36" Stop	R1-1	1				7.46		15
52+50	L	Stop Ahead Symbol	W3-1a	1					9	15
52+50	R	Left Right Arrow	W1-7		missing			8		30
53+94	R	SR 32	M1-6	1			4			15
53+94	R	East	M3-2		same post as SR 32		2			
59+50	L	Side Road Right	W2-2R	1					9	15
59+60	Both	Type 3 OM's	OM-3L & R	2		4				0
64+00	Both	Type 3 OM's	OM-3L & R	2		4				0
70+25	Both	Type 3 OM's	OM-3L & R	2		4				0
77+75	R	Side Road Right	W2-2R	1					9	15
81+00	Both	Type 3 OM's	OM-3L & R	2		4				0
82+30	R	36" Stop	R1-1	1				7.46		15
82+30	R	Stop Ahead Symbol	W3-1a	1					9	15
82+30	L	Left Right Arrow	W1-7		missing			8		30
83+25	Both	Type 3 OM's	OM-3L & R	4		4				0
Equation										
27+15	R	Bridge May Ice	W8-13	1					9	15
27+15	L	Side Road Left	W2-2L	1					9	15
34+00	Both	Type 3 OM's	OM-3L & R	2		2				0

Yalobusha County

Station #	Lane	Sign Description	Sign Code	Removal U-Channel	Notes	Type 3 OM	0.08"	0.1"	0.125"	Square Tube Post 2.0 lb/ft
37+00	Both	Type 3 OM's	OM-3L & R	2		2				0
38+00	L	Do Not Enter	R5-1	1				9		15
38+00	L	Yield	R1-2		same post as do not enter		5.1			
38+45	L	36" Stop	R1-1	1				7.46		15
38+45	L	Stop Ahead Symbol	W3-1a	1					9	15
38+45	R	Left Right Arrow	W1-7		missing			8		30
39+00	L	Do Not Enter	R5-1	1				9		15
39+00	L	Yield	R1-2		same post as do not enter		5.1			
44+75	L	Bridge May Ice	W8-13	1					9	15
49+00	Both	Type 3 OM's	OM-3L & R	4		4				0
Equation										
120+00	Both	Type 3 OM's	OM-3L & R	2		4				0
127+00	Both	Type 3 OM's	OM-3L & R	2		4				0
137+00	Both	Type 3 OM's	OM-3L & R	4		4				0
138+00	R	Left Curve Ahead	W1-2L		missing				9	15
138+00	R	40 mph	W13-1		on same post as left curve ahead		4			
145+00	Both	Type 3 OM's	OM-3L & R	2		4				0
148+50	Both	Type 3 OM's	OM-3L & R	2		4				0
154+75	L	Right Curve Ahead	W1-2R	1					9	15
154+75	L	40 mph	W13-1		on same post as right curve ahead		4			
158+75	R	Right/Left Curves Ahead	W1-4R	1					9	15
158+75	R	35 mph	W13-1		on same post as right/left curves ahead		4			
186+50	L	Right/Left Curves Ahead	W1-4R	1					9	15
186+50	L	35 mph	W13-1		on same post as right/left curves ahead		4			
186+50	R	Right/Left Curves Ahead	W1-4R	1					9	15
186+50	R	35 mph	W13-1		on same post as right/left curves ahead		4			
202+25	Both	Type 3 OM's	OM-3L & R	2		4				0
203+00	L	Right/Left Curves Ahead	W1-4R	1					9	15
203+00	L	35 mph	W13-1		on same post as right/left curves ahead		4			
210+50	Both	Type 3 OM's	OM-3L & R	2		4				0
219+00	R	Right Curve Ahead	W1-2R	1					9	15
219+00	R	40 mph	W13-1		on same post as right curve ahead		4			
224+15	Both	Type 3 OM's	OM-3L & R	2		4				0
227+50	Both	Type 3 OM's	OM-3L & R	2		4				0
228+00	L	Left Curve Ahead	W1-2L	1					9	15
228+00	L	40 mph	W13-1		on same post as left curve ahead		4			

Yalobusha County

Station #	Lane	Sign Description	Sign Code	Removal U-Channel	Notes	Type 3 OM	0.08"	0.1"	0.125"	Square Tube Post 2.0 lb/ft
230+50	R	Side Road Left	W2-2L	1					9	15
232+15	R	Right Curve Ahead	W1-2R	1					9	15
232+15	R	40 mph	W13-1		on same post as right curve ahead		4			
234+00	Both	Type 3 OM's	OM-3L & R	2		4				0
236+50	L	36" Stop	R1-1	1				7.46		15
236+50	L	Stop Ahead Symbol	W3-1a	1					9	15
236+50	R	Left Right Arrow	W1-7	1				8		30
242+75	L	Left Curve Ahead	W1-2L	1					9	15
242+75	L	40 mph	W13-1		on same post as left curve ahead		4			
242+75	R	Left Curve Ahead	W1-2L	1					9	15
242+75	R	35 mph	W13-1		on same post as left curve ahead		4			
243+75	R	Side Road Right	W2-2R	1					9	15
244+00	L	Side Road Right	W2-2R	1					9	15
247+50	Both	Type 3 OM's	OM-3L & R	2		4				0
248+00	R	36" Stop	R1-1	1				7.46		15
248+00	R	Stop Ahead Symbol	W3-1a	1					9	15
248+00	L	Left Right Arrow	W1-7		missing			8		30
250+00	R	Curves Ahead	W1-5	1					9	15
250+00	R	35 mph	W13-1		on same post as curves ahead		4			
252+75	L	Side Road Left	W2-2L	1					9	15
253+70	L	Right Curve Ahead	W1-2R	1					9	15
253+70	L	35 mph	W13-1		on same post as right curve ahead		4			
255+00	Both	Type 3 OM's	OM-3L & R	2		4				0
289+50	R	Curves Ahead	W1-5		missing				9	15
289+50	R	35 mph	W13-1		on same post as curves ahead		4			
289+50	L	Curves Ahead	W1-5		missing				9	15
289+50	L	35 mph	W13-1		on same post as curves ahead		4			
331+50	R	Curves Ahead	W1-5		missing				9	15
331+50	R	35 mph	W13-1		on same post as curves ahead		4			
331+50	L	Curves Ahead	W1-5		missing				9	15
331+50	L	35 mph	W13-1		on same post as curves ahead		4			
351+00	Both	Type 3 OM's	OM-3L & R	2		4				0
353+75	L	Curves Ahead	W1-5	1					9	15
353+75	L	35 mph	W13-1		on same post as curves ahead		4			
360+60	R	Left/Right Curves Ahead	W1-4L	1					9	15
360+60	R	40 mph	W13-1		on same post as left/right curve ahead		4			
367+00	Both	Type 3 OM's	OM-3L & R	2		4				0
370+75	Both	Type 3 OM's	OM-3L & R	2		4				0
374+50	Both	Type 3 OM's	OM-3L & R	4		4				0
380+25	L	Right/Left Curves Ahead	W1-4R	1					9	15
380+25	L	40 mph	W13-1		on same post as right/left curves ahead		4			
374+50	Both	Type 3 OM's	OM-3L & R	4		4				0
380+00	R	Left Curve Ahead	W1-2L		missing				9	15

Yalobusha County

Station #	Lane	Sign Description	Sign Code	Removal U-Channel	Notes	Type 3 OM	0.08"	0.1"	0.125"	Square Tube Post 2.0 lb/ft
380+00	R	50 mph	W13-1		on same post as left curve ahead		4			
388+50	R	Bump		1	remove only					
389+75	Both	Type 3 OM's	OM-3L & R	2		4				0
391+00	L	Bump		1	remove only					
393+50	L	Right Curve Ahead	W1-2R	1					9	15
393+50	L	50 mph	W13-1		on same post as right curve ahead		4			
395+00	R	Left Curve Ahead	W1-2L	1					9	15
395+00	R	35 mph	W13-1		on same post as left curve ahead		4			
396+50	Both	Type 3 OM's	OM-3L & R	2		4				0
398+65	R	Side Road Right	W2-2R	1					9	15
401+36	Both	Type 3 OM's	OM-3L & R	3		4				0
402+00	R	36" Stop	R1-1	1				7.46		15
402+00	R	Stop Ahead Symbol	W3-1a	1					9	15
402+00	L	Left Right Arrow	W1-7	1				8		30
406+00	L	Side Road Left	W2-2L	1					9	15
406+70	R	SR 32	M1-6	1			4			15
406+70	R	East	M3-2	1	same post as SR 32		2			
408+25	L	Right Curve Ahead	W1-2R	1					9	15
408+25	L	35 mph	W13-1		same post as right curve ahead		4			
411+25	Both	Type 3 OM's	OM-3L & R	2		4				0
412+00	R	Side Road Right	W2-2R		missing				9	15
419+00	R	36" Stop	R1-1	1				7.46		15
419+00	R	Stop Ahead Symbol	W3-1a	1					9	15
419+00	L	Left Right Arrow	W1-7	1				8		30
426+00	L	Side Road Left	W2-2L	1					9	15
433+25	Both	Type 3 OM's	OM-3L & R	4		4				0
434+00	R	Side Road Left	W2-2L		missing				9	15
439+00	L	36" Stop	R1-1	1				7.46		15
439+00	L	Stop Ahead Symbol	W3-1a	1					9	15
439+00	R	Left Right Arrow	W1-7		missing			8		30
444+00	L	Side Road Right	W2-2R	1					9	15
448+00	Both	Type 3 OM's	OM-3L & R		missing	4				0
456+50	Both	Type 3 OM's	OM-3L & R	2		4				0
459+25	Both	Type 3 OM's	OM-3L & R	2		4				0
472+00	Both	Type 3 OM's	OM-3L & R	4		4				0
479+00	Both	Type 3 OM's	OM-3L & R	2		4				0
498+50	Both	Type 3 OM's	OM-3L & R	2		4				0
505+00	Both	Type 3 OM's	OM-3L & R	4		4				0
505+50	R	Side Road Left	W2-2L	1					9	15
512+00	L	36" Stop	R1-1	1				7.46		15
512+00	L	Stop Ahead Symbol	W3-1a		missing				9	15
512+00	R	Left Right Arrow	W1-7	1				8		30
513+00	Both	Type 3 OM's	OM-3L & R	4		4				0

Yalobusha County

Station #	Lane	Sign Description	Sign Code	Removal U-Channel	Notes	Type 3 OM	0.08"	0.1"	0.125"	Square Tube Post 2.0 lb/ft
519+75	L	Side Road Left	W2-2L	1					9	15
525+00	Both	Type 3 OM's	OM-3L & R	4		4				0
530+75	Both	Type 3 OM's	OM-3L & R	2		4				0
536+25	Both	Type 3 OM's	OM-3L & R	2		4				0
546+50	Both	Type 3 OM's	OM-3L & R		missing	4				0
188						188	164.4	157	486	1425

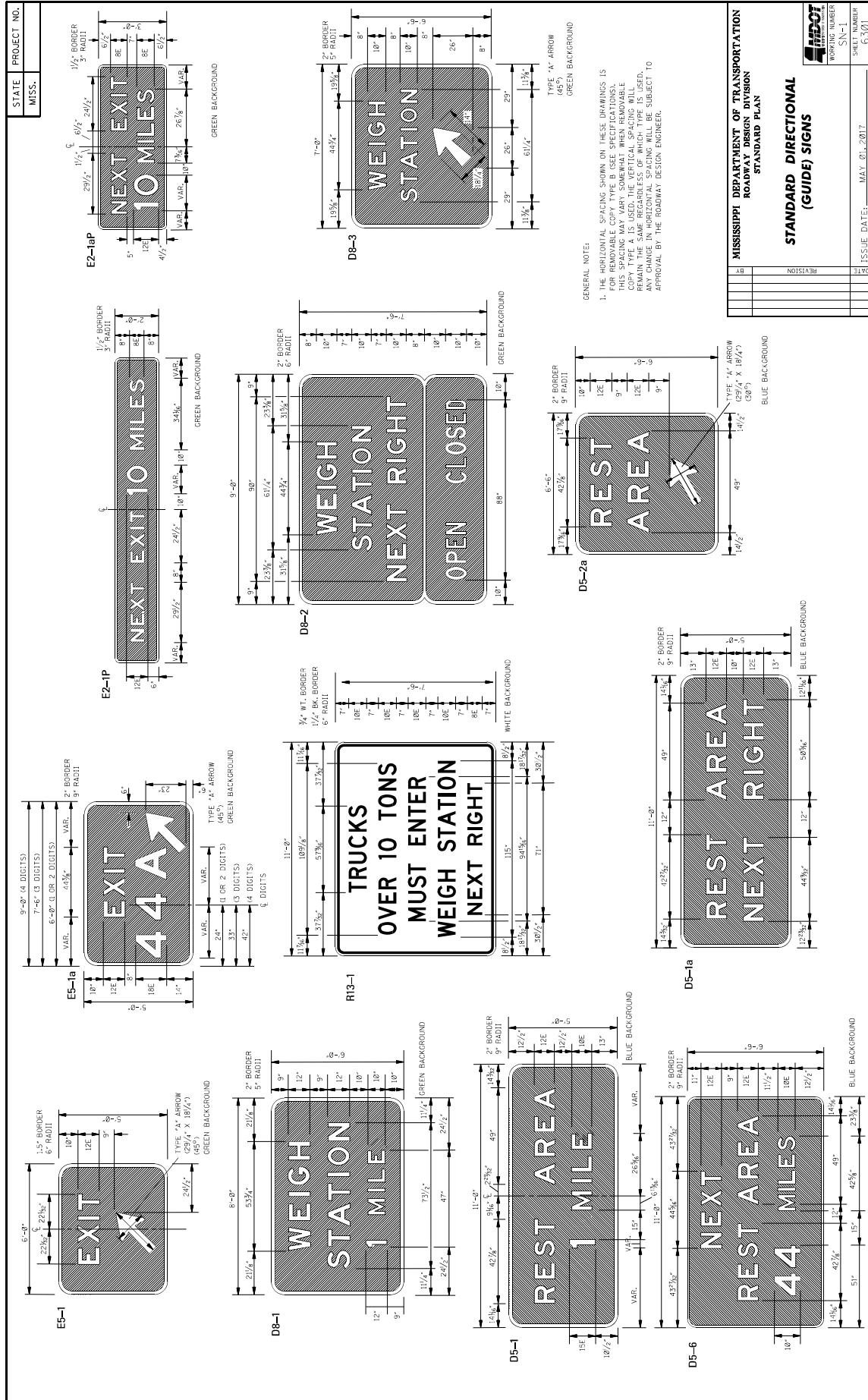
Calhoun County

Location (Sta. #)	Lane Location	Sign Code	Sign Description	Type 3 Object Markers	0.08"	0.1"	0.125"	Small tube (2#/LF)	Removal U-Channel	Notes
58+50	R	W2-7L	Side Road Rt./Lt.				9	15	1	replace existing side road right @ 61+50
63+50	L	R1-1	36" Stop			7.46		15	1	
63+50	L	W3-1	Stop Sign Ahead				9	15	1	
63+50	R	W1-7	Lt./Rt. Arrow			8		15		missing
70+50	R	R1-1	36" Stop			7.46		15	1	
70+50	R	W3-1	Stop Sign Ahead				9	15	1	
70+50	L	W1-7	Lt./Rt. Arrow			8		15		missing
72+50	R	Custom	School Bus Stop Ahead				9	15	1	"School Bus Stop Ahead" on Yellow background
77+00	L	W2-7R	Side Road Rt./Lt.				9	15	1	replace existing side road left
141+50	Both	OM-3L/R	Type 3 OM	4				0	2	double sided on same post
159+50	R	W2-1	Crossroad				9	15	1	
166+50	R	R1-1	36" Stop			7.46		15	1	
166+50	R	W3-1	Stop Sign Ahead				9	15	1	
166+50	L	R1-1	36" Stop			7.46		15	1	
166+50	L	W3-1	Stop Sign Ahead				9	15	1	
170+00	R	M1-6	SR 32		4			15	1	
170+00	R	M3-2	East		2.19					on same post as SR 32
174+00	L	W2-1	Crossroad				9	15	1	
176+00	R	W8-13	Bridge May Ice				9	15		missing
181+00	Both	OM-3L/R	Type 3 OM	2				0	2	Bridge
183+00	Both	OM-3L/R	Type 3 OM	2				0	2	Bridge
187+00	R	W2-2L	Side Road Lt.				9	15	1	missing
192+00	L	W8-13	Bridge May Ice				9	15	1	
193+50	L	R1-1	36" Stop			7.46		15	1	
193+50	L	W3-1	Stop Sign Ahead				9	15	1	
19+30	R	W1-7	Lt./Rt. Arrow			8		15		missing
202+00	L	W2-2R	Side Road Rt.				9	15	1	
204+50	R	W2-2L	Side Road Lt.				9	15	1	
209+75	R	W1-7	Lt./Rt. Arrow			8		15	1	
210+00	L	R1-1	36" Stop			7.46		15	1	
210+00	L	W3-1	Stop Sign Ahead				9	15	1	
218+50	L	W2-2R	Side Road Rt.				9	15	1	
238+00	L	Custom	Trucks Entering Hwy.				9	15	1	"Trucks Entering Highway" on Yellow background
238+00	R	W2-2R	Side Road Rt.				9	15		missing
243+00	R	R1-1	36" Stop			7.46		15	1	
243+00	R	W3-1	Stop Sign Ahead				9	15	1	
243+00	L	W1-7	Lt./Rt. Arrow			8		15		missing
248+00	L	W2-2L	Side Road Lt.				9	15		missing
255+00	L	Custom	School Bus Stop Ahead				9	15	1	"School Bus Stop Ahead" on Yellow background
278+00	R	W2-2L	Side Road Lt.				9	15	1	
285+00	L	R1-1	36" Stop			7.46		15	1	
285+00	L	W3-1	Stop Sign Ahead				9	15	1	
292+00	L	W2-2R	Side Road Rt.				9	15	1	
315+00	R	W2-7R	Side Road Rt./Lt.				9	15		missing
320+50	R	R1-1	36" Stop			7.46		15	1	
320+50	R	W3-1	Stop Sign Ahead				9	15	1	
320+50	L	W1-7	Lt./Rt. Arrow			8		15		missing
325+50	L	R1-1	36" Stop			7.46		15	1	
325+50	L	W3-1	Stop Sign Ahead				9	15	1	
325+50	R	W1-7	Lt./Rt. Arrow			8		15		missing
331+00	L	W2-7L	Side Road Rt./Lt.				9	15		missing
371+00	R	W2-2R	Side Road Rt.				9	15	1	
378+00	L	W1-7	Lt./Rt. Arrow			8		15	2	
378+00	R	R1-1	36" Stop			7.46		15	1	

Calhoun County

Location (Sta. #)	Lane Location	Sign Code	Sign Description	Type 3 Object Markers	0.08"	0.1"	0.125"	Small tube (2#/LF)	Removal U-Channel	Notes
378+00	R	W3-1	Stop Sign Ahead				9	15	1	
384+00	L	W2-2L	Side Road Lt.				9	15	1	
393+00	R	W8-13	Bridge May Ice				9	15	1	
401+50	Both	OM-3L/R	Type 3 OM	2				0	2	Bridge
403+00	Both	OM-3L/R	Type 3 OM	2				0	2	Bridge
410+00	L	W8-13	Bridge May Ice				9	15		missing
410+00	R	W8-13	Bridge May Ice				9	15		missing
415+50	R	W2-2L	Side Road Lt.				9	15	1	
417+50	Both	OM-3L/R	Type 3 OM	2				0	2	Bridge
419+50	Both	OM-3L/R	Type 3 OM	2				0	2	Bridge
423+00	R	W1-7	Lt./Rt. Arrow				8	15		missing
423+00	L	R1-1	36" Stop			7.46		15	1	
423+00	L	W3-1	Stop Sign Ahead				9	15	1	
Equation 427+50 Bk. = 19+42 Ah.										
24+00	L	W2-2R	Side Road Rt.				9	15	1	
47+00	R	W2-2R	Side Road Rt.				9	15		missing
52+00	R	R1-1	36" Stop			7.46		15	1	
52+00	R	W3-1	Stop Sign Ahead				9	15	1	
57+00	L	W2-2L	Side Road Lt.				9	15	1	
70+00	Both	OM-3L/R	Type 3 OM	4				0	4	
121+00	R	W1-2L	Left Curve Ahead				9	15	1	
131+00	Both	OM-3L/R	Type 3 OM	4				0	4	
138+00	Both	OM-3L/R	Type 3 OM	4				0		missing
160+50	Both	OM-3L/R	Type 3 OM	4				0	4	
163+50	R	M1-6	SR 330		5			15	1	
163+50	R	M2-1	Jct.		2.19					same post as SR 330

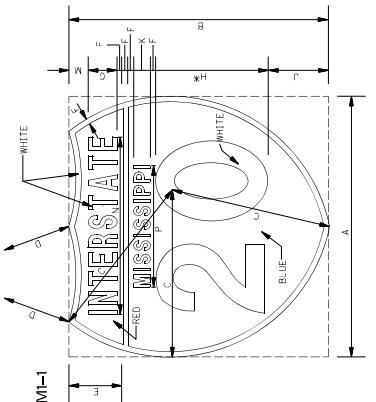
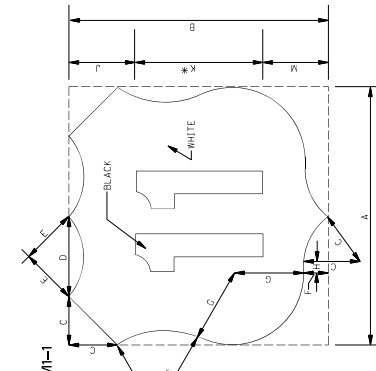
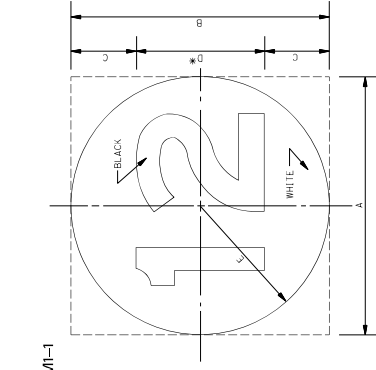
32 13.38 169 378 990 79



STATE	PROJECT NO.
MISS.	

GENERAL NOTES:

- U.S. AND MISSISSIPPI SHIELDS DO NOT HAVE AN OUTSIDE BORDER.
- INTERSTATE, U.S. AND MISSISSIPPI SHIELDS ARE TO BE USED ONLY ON GUIDE SIGNS. SEE OTHER DRAWINGS FOR SHIELDS TO BE USED INDEPENDENTLY AS ROUTE NUMBERS.
- ON INTERSTATE SHIELDS, THE LEGEND AND BACKGROUND SHALL BE REFLECTORIZED.
- ON U.S. AND MISSISSIPPI SHIELDS, THE BACKGROUND SHALL BE REFLECTORIZED.
- IN SOME CASES, NUMERALS CANNOT BE ACCOMMODATED WITHIN THE SHIELD. IN THESE SITUATIONS, THE STANDARD SERIES "D" NUMERALS MAY BE REDUCED TO SERIES "C" NUMERALS OR AS SMALLER HEIGHT COMMONLY AVAILABLE.

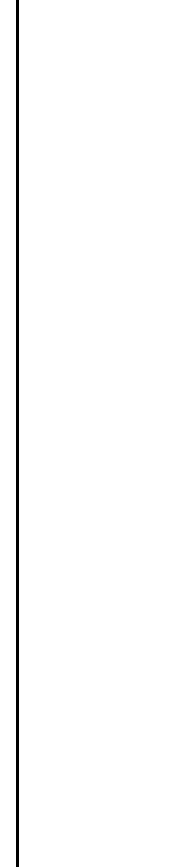
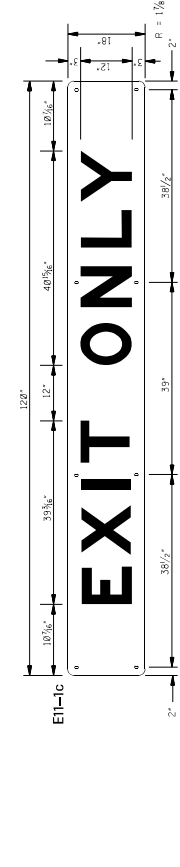
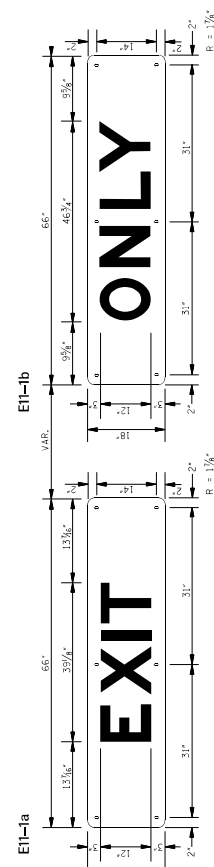


18" NUMERALS	18" NUMERALS	24" NUMERALS	24" NUMERALS
2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS
A	2 1/4"	3 3/8"	4 1/2"
B	2 1/4"	3 3/8"	4 1/2"
C	1 1/2"	2 1/4"	3 1/4"
D	1 1/2"	2 1/4"	3 1/4"
E	1 1/2"	2 1/4"	3 1/4"
F	1 1/2"	2 1/4"	3 1/4"
G	1 1/2"	2 1/4"	3 1/4"
H	1 1/2"	2 1/4"	3 1/4"
I	1 1/2"	2 1/4"	3 1/4"
J	1 1/2"	2 1/4"	3 1/4"
K	1 1/2"	2 1/4"	3 1/4"
L	1 1/2"	2 1/4"	3 1/4"
M	1 1/2"	2 1/4"	3 1/4"
N	1 1/2"	2 1/4"	3 1/4"
O	1 1/2"	2 1/4"	3 1/4"
P	1 1/2"	2 1/4"	3 1/4"

18" NUMERALS	18" NUMERALS	24" NUMERALS	24" NUMERALS
2 DIGITS	3 DIGITS	2 DIGITS	3 DIGITS
A	2 1/4"	3 3/8"	4 1/2"
B	2 1/4"	3 3/8"	4 1/2"
C	1 1/2"	2 1/4"	3 1/4"
D	1 1/2"	2 1/4"	3 1/4"
E	1 1/2"	2 1/4"	3 1/4"
F	1 1/2"	2 1/4"	3 1/4"
G	1 1/2"	2 1/4"	3 1/4"
H	1 1/2"	2 1/4"	3 1/4"
I	1 1/2"	2 1/4"	3 1/4"
J	1 1/2"	2 1/4"	3 1/4"
K	1 1/2"	2 1/4"	3 1/4"
L	1 1/2"	2 1/4"	3 1/4"
M	1 1/2"	2 1/4"	3 1/4"
N	1 1/2"	2 1/4"	3 1/4"
O	1 1/2"	2 1/4"	3 1/4"
P	1 1/2"	2 1/4"	3 1/4"

	DIMENSIONS (INCHES)			
	A	B	C	D
12-DIGITS	24"	36"	36"	36"
12-DIGITS	36"	54"	54"	54"
12-DIGITS	48"	72"	72"	72"
12-DIGITS	60"	90"	90"	90"
12-DIGITS	72"	108"	108"	108"
12-DIGITS	84"	126"	126"	126"
12-DIGITS	96"	144"	144"	144"
12-DIGITS	108"	162"	162"	162"
12-DIGITS	120"	180"	180"	180"
12-DIGITS	132"	198"	198"	198"
12-DIGITS	144"	216"	216"	216"

- GENERAL NOTES:
- THESE SIGNS SHALL BE FABRICATED ON 0.063" THICK ALUMINUM OR GALVANIZED STEEL. THE NUMERALS (OR LETTERS) SHALL BE REVERSED FOR DIRECTIONAL TRAVEL. THESE SIGNS WILL NOT BE PAID FOR AS SEPARATE SIGNS BUT SHALL BE CONSIDERED AS PART OF THE MAJOR SIGNS TO WHICH THEY ARE AFFIXED.
 - LETTER SIZE: 12" SERIES "D".
COLOR: LEGEND - BLACK; BACKGROUND - HI-INTENSITY YELLOW.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
ROUTE SHIELDS AND "EXIT ONLY" PANELS	
BY	REVISION
DATE	ISSUE DATE: MAY 01, 2012
	SHEET NUMBER SN-2
	TOTAL NUMBER 63/62

SIGN NUMBER ALUMINUM 6061-T6 SILK BLACK THICKNESS	D19-2	D18-1	D18-2	D18-3	D18-1a	D18-2a	D18-3a	D18-4	D18-5	M1-1	M1-4	STATE PROJECT NO.	
												MISS.	
	0.080"	0.080"	0.080"	0.100"	0.080"	0.100"	0.100"	0.100"	0.100"	0.080"	0.080"	M1-6	
LETTER & NUMERAL SERIES	29" SERIES 30" SERIES "E" MOD. "F" MOD. "E" MOD. "F" MOD.	4" SERIES "B" 10" SERIES "D"	4" SERIES "B" 10" SERIES "D"	4" SERIES "B" 10" SERIES "D"	4" SERIES "B" 10" SERIES "D"	4" SERIES "B" 10" SERIES "D"	4" SERIES "B" 10" SERIES "D"	6" SERIES "B" 8" SERIES "B" 6" SERIES "B" 8" SERIES "B"	1/2" WHITE 3/4" WHITE 1/2" WHITE 18" X 60" 30" X 24" (3 DIGITS) 18" X 54" 45" X 36" (3 DIGITS)	1/2" WHITE 3/4" WHITE	(SEE NOTES 1 & 2 BELOW)	WEST MILE 41 2 WEST MILE 41 2 WEST MILE 41 2 WEST MILE 41 2	
WIDTH OF BORDER	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE
SIZE (WIDTH X HEIGHT)	24" X 24" 36" X 36"	12" X 24" 12" X 36"	12" X 36" 12" X 48"	12" X 48" 12" X 96"	12" X 96" 12" X 48"	12" X 48" 12" X 96"	12" X 48" 12" X 96"	18" X 54" 45" X 36" (3 DIGITS)	18" X 60" 30" X 24" (3 DIGITS)	36" X 36" (1 OR 2 DIGITS) 45" X 36" (3 DIGITS)	24" X 24" (1 OR 2 DIGITS) 30" X 24" (3 DIGITS)	24" X 24" (1 OR 2 DIGITS) 30" X 24" (3 DIGITS)	24" X 24" (1 OR 2 DIGITS) 30" X 24" (3 DIGITS)
COLORS	WHITE BLUE	WHITE BLUE	WHITE GREEN	WHITE GREEN	WHITE GREEN	WHITE GREEN	WHITE GREEN	WHITE GREEN	WHITE RED-BLUE GREEN	WHITE RED-BLUE GREEN	WHITE RED-BLUE GREEN	WHITE RED-BLUE GREEN	WHITE RED-BLUE GREEN
REFLECTORIZATION	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
NUMBER OF POSTS FOR MOUNTING	1	1	1	1	1	1	1	1	1	1	1	1	1
NUMBER OF HOLES TO BE PUNCHED	2	2	2	2	2	2	2	2	2	2	2	2	2
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	12" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)	6" (VERT. CENTER)
PUNCHING DISTANCE FROM TOP EDGE	3" : 21"	3" : 21"	3" : 21"	3" : 21"	3" : 21"	3" : 21"	3" : 21"	6" : 48"	6" : 54"	6" : 54"	6" : 54"	6" : 54"	6" : 54"
SIGN NUMBER	M1-1	M3-5 *	M3-3 *	M4-4	M4-5 *	M5-1	M5-1	M5-2	M5-2	M5-2	M5-2	M5-2	M5-2
SILK BLACK THICKNESS	0.080"	0.080"	0.080"	0.080"	0.080"	0.080"	0.080"	0.080"	0.080"	0.080"	0.080"	0.080"	0.080"
LETTER & NUMERAL SERIES	9" SERIES "C" 10" SERIES "C" 9" SERIES "C" 10" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"	7" SERIES "C" 8" SERIES "C"
WIDTH OF BORDER	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE	1/2" WHITE 3/4" WHITE
SIZE (WIDTH X HEIGHT)	21" X 15" 24" X 12"	24" X 12" 30" X 15"	30" X 15" 24" X 12"	30" X 15" 24" X 12"	24" X 12" 30" X 15"	24" X 12" 30" X 15"	24" X 12" 30" X 15"	21" X 15" 21" X 15"	21" X 15" 21" X 15"	21" X 15" 21" X 15"	21" X 15" 21" X 15"	21" X 15" 21" X 15"	21" X 15" 21" X 15"
COLORS	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE	BLACK WHITE
REFLECTORIZATION	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
NUMBER OF POSTS FOR MOUNTING	1	1	1	1	1	1	1	1	1	1	1	1	1
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)	12" (VERT. CENTER)
PUNCHING DISTANCE FROM TOP EDGE	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)	5" (V.L.)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

STANDARD
ROADSIDE SIGNS

ISSUE DATE: MAY 01, 2017
SHEET NUMBER
SN-3
TOTAL SHEETS
62/63

REVISION	DATE	DESCRIPTION

US2B-1	US2B-2	US2B-3	US2B-4	US2B-5	US2B-6	US2B-7	US2B-8
MS-1A	MS-2A	MS-3A	MS-4A	MS-5A	MS-6A	MS-7A	MS-8A
MS-10A	MS-102A	MS-103A	MS-104A	MS-105A	MS-106A	MS-107A	MS-108A

- IN SOME CASES, NUMERALS CANNOT BE ACCOMMODATED WITHIN THE SPACE AVAILABLE FOR THESE SITUATIONS, THE STANDARD SERIES "0" NUMERAL SHALL BE REDUCED TO SERIES "C".
- IN SOME CASES, NUMERALS CANNOT BE ACCOMMODATED WITHIN THE SPACE AVAILABLE FOR THESE SITUATIONS, THE STANDARD SERIES "0" NUMERAL SHALL BE REDUCED TO SERIES "C".
- ROUTE MARKERS AND SHIELDS SHOWN ON THIS SHEET ARE FOR USE INDEPENDENTLY FOR INTERSTATE DIRECTIONAL GUIDED SIGNS. SEE OTHER DRAWINGS FOR SHIELDS TO BE USED ON INTERSTATE DIRECTIONAL GUIDED SIGNS.
- THE QUANTITIES LISTED ON THIS SUMMARY SHEET FOR THE QUANTITIES SHOWN ON THIS SHEET WILL BE USED AS THE BASIS FOR FINAL PAYMENT, EXCEPT WHERE SIGNS ARE MODIFIED FROM THAT SHOWN.

GENERAL NOTES:
1. THE DIMENSIONS FOR THE INTERSTATE AND U.S. SHIELDS SHALL CONFORM WITH THOSE SHOWN IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. ROUTE MARKERS AND SHIELDS SHOWN ON THIS SHEET ARE FOR USE INDEPENDENTLY FOR INTERSTATE DIRECTIONAL GUIDED SIGNS. SEE OTHER DRAWINGS FOR SHIELDS TO BE USED ON INTERSTATE DIRECTIONAL GUIDED SIGNS.
3. THE QUANTITIES LISTED ON THIS SUMMARY SHEET FOR THE QUANTITIES SHOWN ON THIS SHEET WILL BE USED AS THE BASIS FOR FINAL PAYMENT, EXCEPT WHERE SIGNS ARE MODIFIED FROM THAT SHOWN.

STATE	PROJECT NO.	MISS.	MISS.
RS-1	0.125"	0.100"	0.125"
RS-2	0.080"	0.100"	0.125"
RS-3	0.125"	0.080"	0.100"
RS-4	0.100"	0.080"	0.100"
RS-5	0.080"	0.100"	0.125"
RS-6	0.125"	0.100"	0.125"
RS-7	0.100"	0.080"	0.100"
RS-8	0.125"	0.100"	0.125"
RS-9	0.100"	0.080"	0.100"
RS-10	0.125"	0.100"	0.125"
RS-11	0.100"	0.080"	0.100"
RS-12	0.125"	0.100"	0.125"
RS-13	0.100"	0.080"	0.100"
RS-14	0.125"	0.100"	0.125"
RS-15	0.100"	0.080"	0.100"
RS-16	0.125"	0.100"	0.125"
RS-17	0.100"	0.080"	0.100"
RS-18	0.125"	0.100"	0.125"
RS-19	0.100"	0.080"	0.100"
RS-20	0.125"	0.100"	0.125"
RS-21	0.100"	0.080"	0.100"
RS-22	0.125"	0.100"	0.125"
RS-23	0.100"	0.080"	0.100"
RS-24	0.125"	0.100"	0.125"
RS-25	0.100"	0.080"	0.100"
RS-26	0.125"	0.100"	0.125"
RS-27	0.100"	0.080"	0.100"
RS-28	0.125"	0.100"	0.125"
RS-29	0.100"	0.080"	0.100"
RS-30	0.125"	0.100"	0.125"
RS-31	0.100"	0.080"	0.100"
RS-32	0.125"	0.100"	0.125"
RS-33	0.100"	0.080"	0.100"
RS-34	0.125"	0.100"	0.125"
RS-35	0.100"	0.080"	0.100"
RS-36	0.125"	0.100"	0.125"
RS-37	0.100"	0.080"	0.100"
RS-38	0.125"	0.100"	0.125"
RS-39	0.100"	0.080"	0.100"
RS-40	0.125"	0.100"	0.125"
RS-41	0.100"	0.080"	0.100"
RS-42	0.125"	0.100"	0.125"
RS-43	0.100"	0.080"	0.100"
RS-44	0.125"	0.100"	0.125"
RS-45	0.100"	0.080"	0.100"
RS-46	0.125"	0.100"	0.125"
RS-47	0.100"	0.080"	0.100"
RS-48	0.125"	0.100"	0.125"
RS-49	0.100"	0.080"	0.100"
RS-50	0.125"	0.100"	0.125"
RS-51	0.100"	0.080"	0.100"
RS-52	0.125"	0.100"	0.125"
RS-53	0.100"	0.080"	0.100"
RS-54	0.125"	0.100"	0.125"
RS-55	0.100"	0.080"	0.100"
RS-56	0.125"	0.100"	0.125"
RS-57	0.100"	0.080"	0.100"
RS-58	0.125"	0.100"	0.125"
RS-59	0.100"	0.080"	0.100"
RS-60	0.125"	0.100"	0.125"
RS-61	0.100"	0.080"	0.100"
RS-62	0.125"	0.100"	0.125"
RS-63	0.100"	0.080"	0.100"
RS-64	0.125"	0.100"	0.125"
RS-65	0.100"	0.080"	0.100"
RS-66	0.125"	0.100"	0.125"
RS-67	0.100"	0.080"	0.100"
RS-68	0.125"	0.100"	0.125"
RS-69	0.100"	0.080"	0.100"
RS-70	0.125"	0.100"	0.125"
RS-71	0.100"	0.080"	0.100"
RS-72	0.125"	0.100"	0.125"
RS-73	0.100"	0.080"	0.100"
RS-74	0.125"	0.100"	0.125"
RS-75	0.100"	0.080"	0.100"
RS-76	0.125"	0.100"	0.125"
RS-77	0.100"	0.080"	0.100"
RS-78	0.125"	0.100"	0.125"
RS-79	0.100"	0.080"	0.100"
RS-80	0.125"	0.100"	0.125"
RS-81	0.100"	0.080"	0.100"
RS-82	0.125"	0.100"	0.125"
RS-83	0.100"	0.080"	0.100"
RS-84	0.125"	0.100"	0.125"
RS-85	0.100"	0.080"	0.100"
RS-86	0.125"	0.100"	0.125"
RS-87	0.100"	0.080"	0.100"
RS-88	0.125"	0.100"	0.125"
RS-89	0.100"	0.080"	0.100"
RS-90	0.125"	0.100"	0.125"
RS-91	0.100"	0.080"	0.100"
RS-92	0.125"	0.100"	0.125"
RS-93	0.100"	0.080"	0.100"
RS-94	0.125"	0.100"	0.125"
RS-95	0.100"	0.080"	0.100"
RS-96	0.125"	0.100"	0.125"
RS-97	0.100"	0.080"	0.100"
RS-98	0.125"	0.100"	0.125"
RS-99	0.100"	0.080"	0.100"
RS-100	0.125"	0.100"	0.125"

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**STANDARD
ROADSIDE SIGNS**

ISSUE DATE: MAY 01, 2017

WORKING NUMBER: SN-5A
SHEET NUMBER: 02/04

GENERAL NOTES:

1. THE QUANTITIES LISTED ON THE SUMMARY OF QUANTITIES SHEET FOR THE SIGNS SHOWN ON THIS SHEET WILL BE USED AS THE BASIS FOR FINAL PAYMENT, EXCEPT WHERE SIGNS ARE MODIFIED FROM THAT SHOWN.
2. THE SPEED LIMITS REQUIRED ON SIGNS RS-1 AND RS-4g WILL BE SHOWN ON INDIVIDUAL PLAN SHEETS.

STATE PROJECT NO.
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ROADSIDE SIGN IN RURAL AREA

ROADSIDE SIGN IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA

* THE 2 FT. MINIMUM OFFSET APPLIES ONLY TO STANDARD SIGNS MOUNTED ON U-POSTS. ALL STANDARD SIGNS MOUNTED ON PIPE WILL BE OFFSET 4 FT. FROM THE SHOULDERS.

WARNING SIGN WITH ADVISORY SPEED PLAQUE IN RURAL AREA

ROADSIDE ASSEMBLY IN RURAL AREA

INTERSTATE OR FREEWAY SIGN WITH SECONDARY SIGN

OVERHEAD SIGN

SIGNS IN ISLANDS OR BEHIND CURB USING U-POSTS OR PIPE POSTS

PLAN

ELEVATION

SIGN ON NOSE OF MEDIAN

GENERAL NOTES:

- SEE SECTION 2A-19 OF THE MUTCD FOR REDUCED LATERAL OFFSET DISTANCES THAT MAY BE USED IN AREAS WHERE LATERAL OFFSETS ARE LIMITED, AND IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREAS WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.
- LOCATED OUTSIDE THE CLEAR ZONE UNLESS PLACED ON A BREAKAWAY OR YIELDING SUPPORT.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

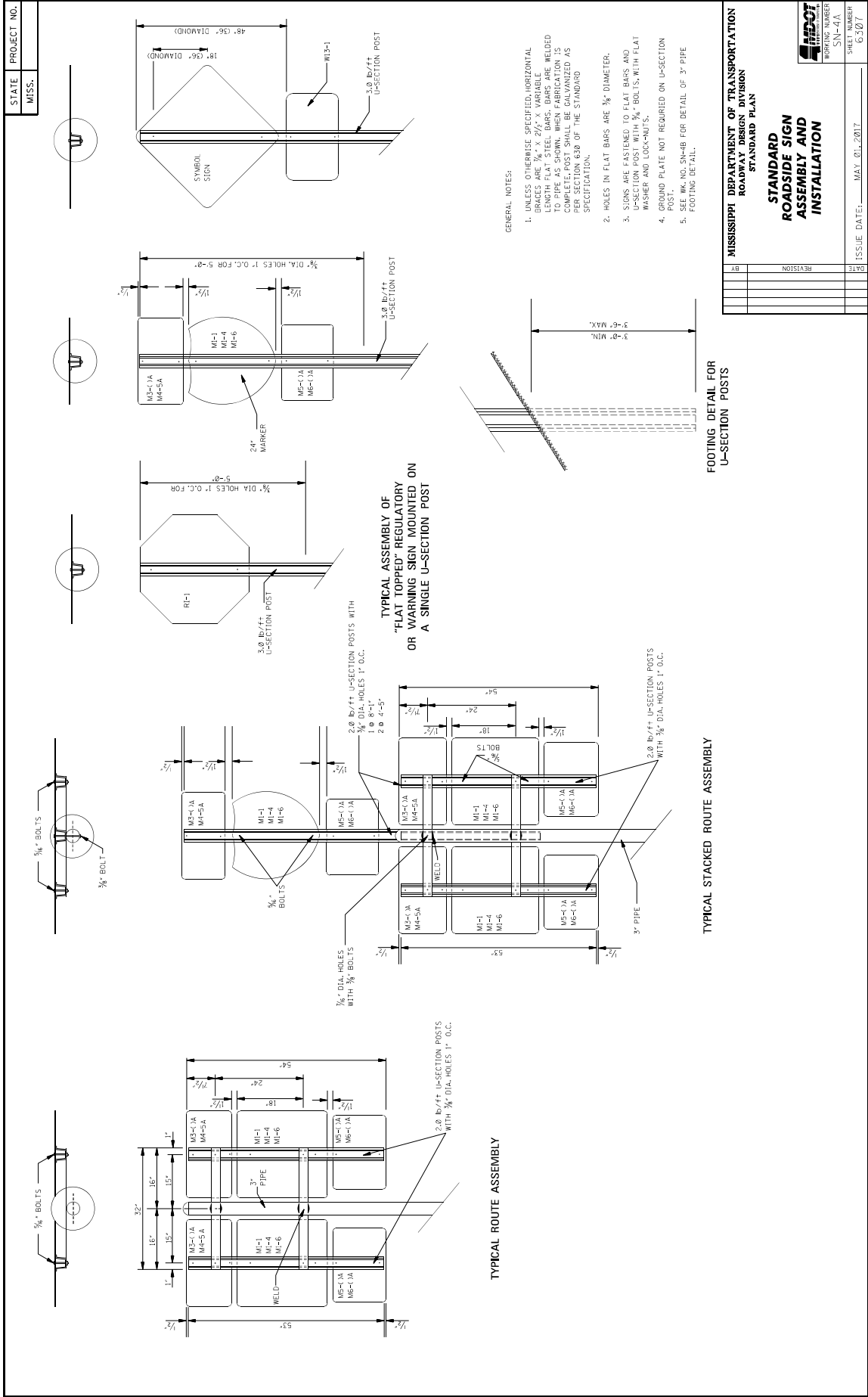
STANDARD SIGN ASSEMBLY AND INSTALLATION

DATE: _____ REVISION: _____

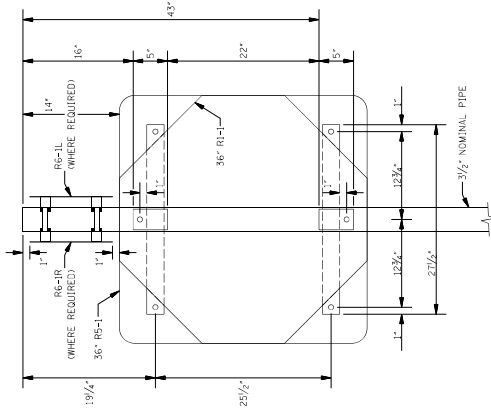
ISSUE DATE: MAY 01, 2017

SHEET NUMBER: 6306

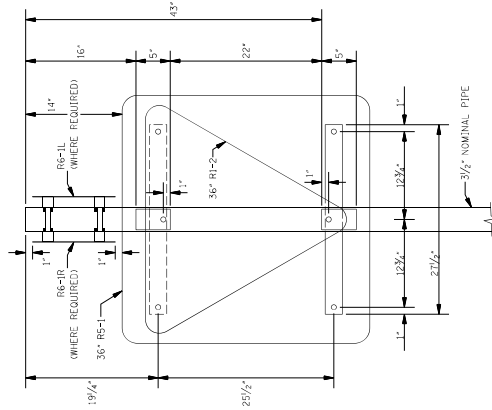
WORKING NUMBER: SN-4



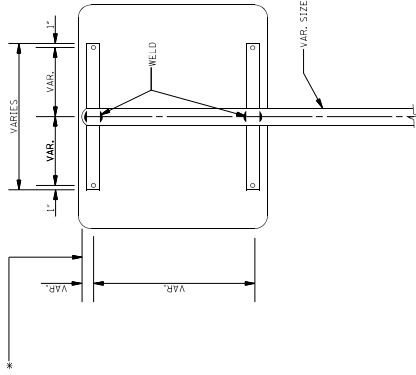
STATE	PROJECT NO.
MISS.	



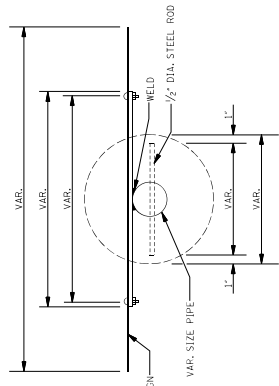
TYPICAL BACK-TO-BACK SIGN MOUNT
SHOWING RS-1 WITH R1-1



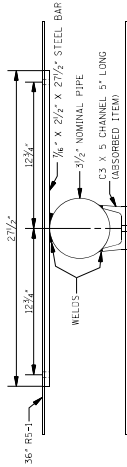
TYPICAL BACK-TO-BACK SIGN MOUNT
SHOWING RS-1 WITH R1-2



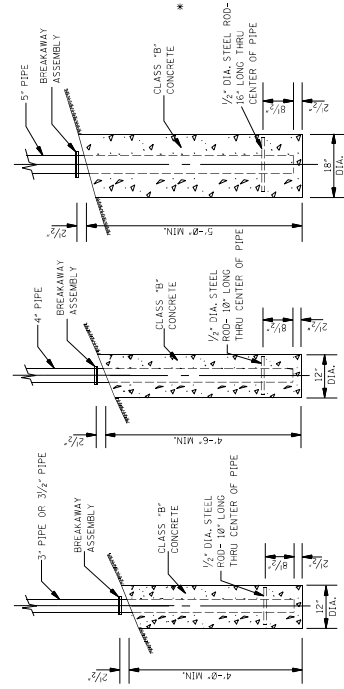
TYPICAL ASSEMBLY ON PIPE



TYPICAL PLAN VIEW



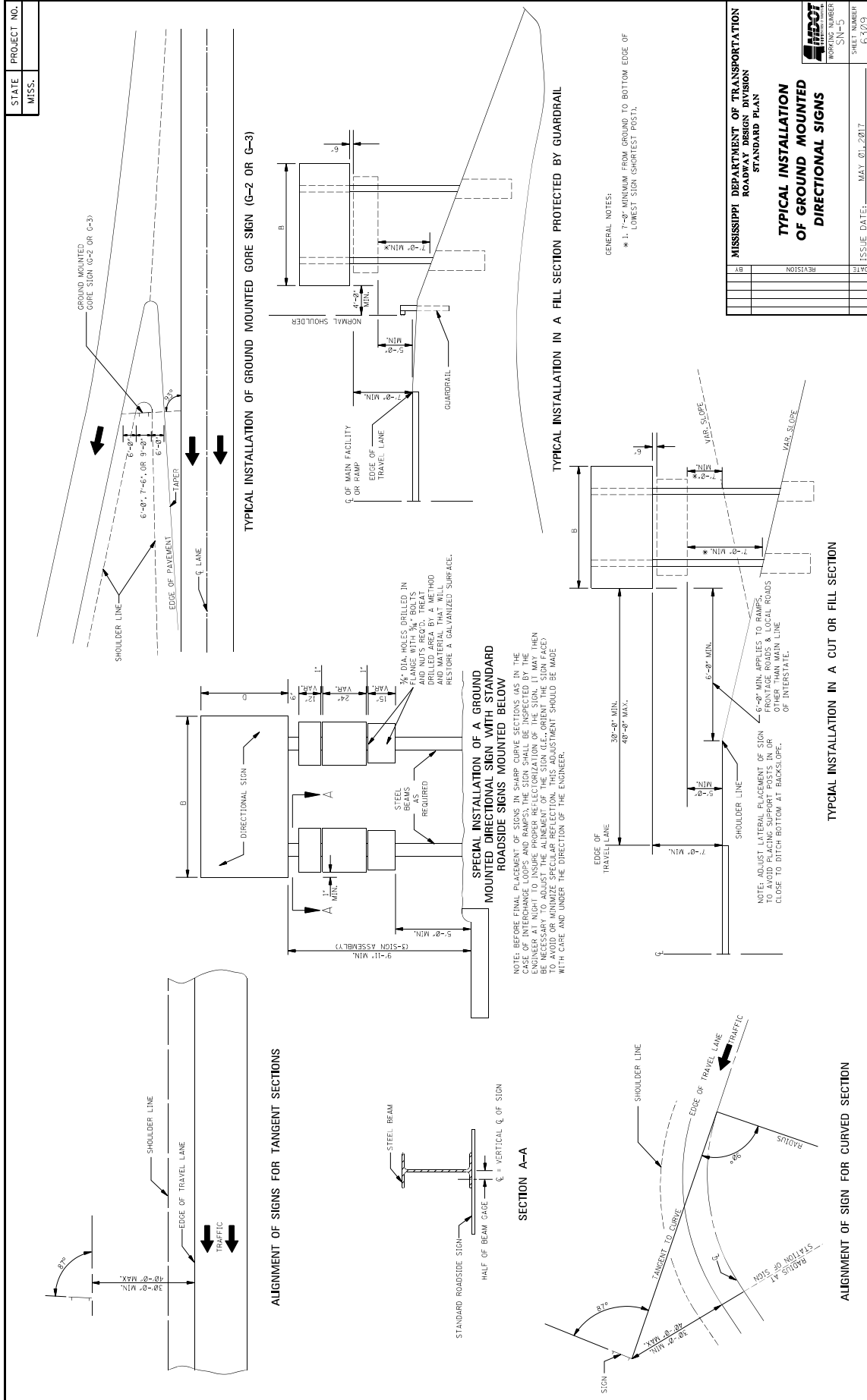
PLAN VIEW OF DOUBLE MOUNTING OF SIGNS



FOOTING DETAILS

- GENERAL NOTES:
- UNLESS OTHERWISE SPECIFIED, HORIZONTAL BRACES ARE 3/4" X 2 1/2" X VARIABLE LENGTH FLAT STEEL BARS. BARS ARE WELDED TO PIPE AS SHOWN. WHEN FABRICATION LIST OR DETAILS ARE SHOWN, ALL WELDS SHALL BE GALVANIZED AS PER SECTION 658 OF THE STANDARD SPECIFICATION.
 - HOLES IN FLAT BARS ARE 3/8" DIAMETER.
 - STONS ARE FASTENED TO THE FLAT BARS AND I-SECTION POSTS WITH W8 BOLTS WITH FLAT WASHERS AND LOCK NUTS.
 - WHERE REQUIRED, STONS, BUSH AND RS-1R ARE TO BE MOUNTED ON PIPES WITH CLAMPS OR BUCKLE BRACKETS (NOT A PAY ITEM).
 - ALL WELDS SHALL BE 3/8" FILLET.
 - TOP OF POST

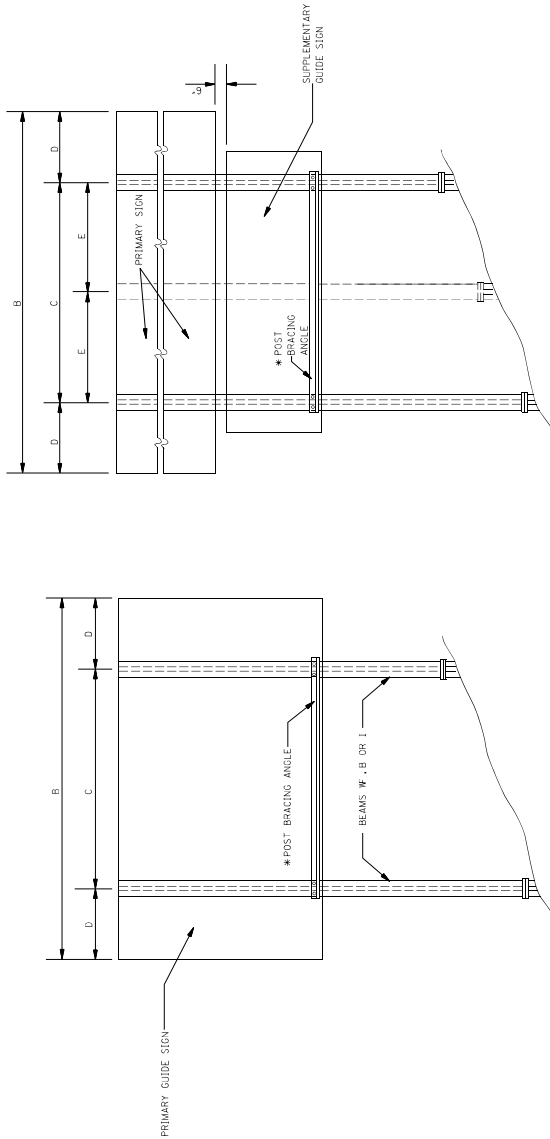
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION	
DATE	ISSUE DATE: MAY 01, 2017
BY	SHEET NUMBER SN-413
REVISION	WORKING NUMBER 6208



STATE MISS. PROJECT NO.

GENERAL NOTES FOR WORKING SHEETS SN-6, SN-6A AND SN-6B:

- 1. FOOTINGS**
ALL FOOTINGS SHALL BE CLASS 'B' CONCRETE. POST STUBS SHALL BE SET IN CONCRETE FOOTING AT REQUIRED GRADE AND ALLOWMENT WITH CARE SO THAT MINIMUM SHIMMING WILL BE REQUIRED.
- 2. BASE CONNECTION PROCEDURE**
ASSEMBLE POST TO STUB WITH BOLTS AND WITH A FLAT WASHER ON EACH BOLT BETWEEN PLATES. SHIM AS REQUIRED TO PLUMB POST. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" TO 15" WRENCH TO BED WASHERS AND STUBS AND TO CLEAR BOLT HEADS. THEN LOOSEN EACH BOLT TO 1/2 TURN. REPEAT THIS PROCEDURE ON ALL BOLTS. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH. HIGH STRENGTH BOLTS IN BASE CONNECTIONS SHALL BE TIGHTENED TO TORQUE AS SHOWN BY TABLE ON SN-6A. DO NOT OVER TIGHTEN.
- 3. POST LENGTH**
ALL POST LENGTHS SHALL BE VERIFIED AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION. WHERE FIELD CONDITIONS REQUIRE THE POST LENGTH TO VARY MORE THAN 12", IT MAY BE NECESSARY TO CHANGE THE SIZE OR NUMBER OF POSTS. SUCH DETERMINATION WILL BE MADE BY THE ROADWAY DESIGN ENGINEER. ANY CHANGE OF SIZE OR NUMBER OF POSTS SHALL NOT BE JUSTIFICATION FOR ANY CONTRACT PRICE ADJUSTMENTS.
- 4. FABRICATOR NOTE**
IMPORTANT - ALL FRICTION PLATE BOLTS SHALL BE TIGHTENED IN SHOP BY A METHOD APPROVED BY THE BRIDGE DESIGN ENGINEER. TIGHTENING SHALL BE TO SUCH A DEGREE AS TO PROVIDE THE MINIMUM TENSION IN EACH BOLT WHEN ALL BOLTS ARE TIGHT, AS SHOWN BY TABLE SN-6A.
- 5. ALL HOLES IN FUSE PLATES AND HINGE PLATES SHALL BE DRILLED.**
- 6. ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS. FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GRINDING. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE ACCEPTABLE.**
- 7. WELDING FOR STEEL SIGN SUPPORTS**
WELDING SHALL BE PERFORMED IN SHOP BY ELECTRIC ARC PROCESS.
- 8. MATERIAL SPECIFICATIONS**
THE MATERIALS USED IN THE CONSTRUCTION OF THE GROUND MOUNTED SIGN SUPPORT STRUCTURES, AS LISTED BELOW SHALL CONFORM WITH THE REQUIREMENTS OF THE DESIGNATED ASTM SPECIFICATION. ALL OTHER MATERIALS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS, EXCEPT AS OTHERWISE NOTED ON THE PLANS.



TYPICAL 2-POST INSTALLATION WITHOUT EXIT SIGN

TYPICAL 2 OR 3 POST INSTALLATION WITH SUPPLEMENTARY GUIDE SIGN AND POST BRACING ANGLE LOCATION

* NOTE: PLACE POST BRACING ANGLE AT BOTTOM OF PRIMARY OR SUPPLEMENTARY SIGN WHICHEVER IS LOWER. (SEE "END ELEVATION OF POST AND FOOTING" ON SN-6A.)

DESCRIPTION	MATERIALS PER ASTM SPECIFICATION	GALVANIZE PER ASTM DESIGNATION
POSTS OF STEEL PIPE	A 53 (GRADE 70) (2)	A 153
BASE CONNECTION PLATES FOR PIPES	A 36	A 123
POSTS OF STEEL W, B, AND I BEAMS INCLUDING BASE CONNECTION, FUSE AND HINGE PLATES, ANGLES AND FLAT BARS USED IN FABRICATION AND ERECTION OF SIGN SUPPORTS	A 572 GRADE 50 OR A 36	A 123
HIGH STRENGTH BOLTS, NUTS AND WASHERS OTHER THAN HIGH STRENGTH (3)	A 307 (GRADE 24)	A 153

- ① ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION EXCEPT AS NOTED ON THE PLANS.
- ② PIPES MAY BE WELDED OR SEAMLESS.
- ③ BOLTS, WASHERS, AND NUTS USED FOR FASTENING ALUMINUM SIGN SHEETS AND PANELS SHALL BE ALUMINUM AS PER FOLLOWING TABLE.

DESCRIPTION	ASTM DESIGNATION	ALLOY
BOLTS AND WASHERS	B 283	2024-T4
PANEL BOLT NUTS	B 211	6063-T6
STOP NUTS	B 211	2017-T4

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

BREAKAWAY SIGN SUPPORTS

ISSUE DATE: MAY 01, 2017
SHEET NUMBER SN-6
WORKING NUMBER 6310

2 POST		3 POST	
POST HEIGHT	POST CENTER-TO-CENTER SPACING	POST HEIGHT	POST CENTER-TO-CENTER SPACING
4'-0"	15'-0"	4'-0"	15'-0"
4'-6"	15'-6"	4'-6"	15'-6"
5'-0"	16'-0"	5'-0"	16'-0"
5'-6"	16'-6"	5'-6"	16'-6"
6'-0"	17'-0"	6'-0"	17'-0"
6'-6"	17'-6"	6'-6"	17'-6"
7'-0"	18'-0"	7'-0"	18'-0"
7'-6"	18'-6"	7'-6"	18'-6"
8'-0"	19'-0"	8'-0"	19'-0"
8'-6"	19'-6"	8'-6"	19'-6"
9'-0"	20'-0"	9'-0"	20'-0"
9'-6"	20'-6"	9'-6"	20'-6"
10'-0"	21'-0"	10'-0"	21'-0"
10'-6"	21'-6"	10'-6"	21'-6"
11'-0"	22'-0"	11'-0"	22'-0"
11'-6"	22'-6"	11'-6"	22'-6"
12'-0"	23'-0"	12'-0"	23'-0"
12'-6"	23'-6"	12'-6"	23'-6"
13'-0"	24'-0"	13'-0"	24'-0"
13'-6"	24'-6"	13'-6"	24'-6"
14'-0"	25'-0"	14'-0"	25'-0"
14'-6"	25'-6"	14'-6"	25'-6"
15'-0"	26'-0"	15'-0"	26'-0"
15'-6"	26'-6"	15'-6"	26'-6"
16'-0"	27'-0"	16'-0"	27'-0"
16'-6"	27'-6"	16'-6"	27'-6"
17'-0"	28'-0"	17'-0"	28'-0"
17'-6"	28'-6"	17'-6"	28'-6"
18'-0"	29'-0"	18'-0"	29'-0"
18'-6"	29'-6"	18'-6"	29'-6"
19'-0"	30'-0"	19'-0"	30'-0"
19'-6"	30'-6"	19'-6"	30'-6"
20'-0"	31'-0"	20'-0"	31'-0"
20'-6"	31'-6"	20'-6"	31'-6"
21'-0"	32'-0"	21'-0"	32'-0"
21'-6"	32'-6"	21'-6"	32'-6"
22'-0"	33'-0"	22'-0"	33'-0"
22'-6"	33'-6"	22'-6"	33'-6"
23'-0"	34'-0"	23'-0"	34'-0"
23'-6"	34'-6"	23'-6"	34'-6"
24'-0"	35'-0"	24'-0"	35'-0"
24'-6"	35'-6"	24'-6"	35'-6"
25'-0"	36'-0"	25'-0"	36'-0"
25'-6"	36'-6"	25'-6"	36'-6"
26'-0"	37'-0"	26'-0"	37'-0"
26'-6"	37'-6"	26'-6"	37'-6"
27'-0"	38'-0"	27'-0"	38'-0"
27'-6"	38'-6"	27'-6"	38'-6"
28'-0"	39'-0"	28'-0"	39'-0"
28'-6"	39'-6"	28'-6"	39'-6"
29'-0"	40'-0"	29'-0"	40'-0"
29'-6"	40'-6"	29'-6"	40'-6"
30'-0"	41'-0"	30'-0"	41'-0"
30'-6"	41'-6"	30'-6"	41'-6"

STATE MISS.

PROJECT NO.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

BREAKAWAY SIGN SUPPORTS

ISSUE DATE: MAY 01, 2017

SHEET NUMBER 8311

BREAKAWAY SUPPORT STUD CLEARANCE DIAGRAM

NOTE: STUD OF SIGN SHALL BE FABRICATED FROM BRASS SHIM 3000 IN-TORSION. SHIM SHALL BE FABRICATED FROM BRASS SHIM ASTM B 36.

BASE CONNECTION DETAILS FOR W SHAPED POSTS

NOTE: INSTALLATION SIMILAR TO DETAIL "A", USE PLATE.

HINGE PLATE

NOTE: INSTALLATION SIMILAR TO DETAIL "A", USE PLATE.

FUSE PLATE DETAIL

NOTE: HINGE PLATE AND FUSE PLATE SHALL BE FABRICATED FROM BRASS SHIM WITH HEAT TREATING AND BEVELS ON FLAT WASHERS UNDER EACH BOLT HEAD AND BEVELS ON FLAT WASHERS UNDER HEADS UNDER OTHER NOTES.

STIFFENER PLATE DETAIL

NOTE: SEE TABLE FOR DIMENSIONS.

DIAGRAM OF "BOLT KEEPER"

NOTE: FABRICATED FROM Z8 COARSE GALVANIZED STEEL. DIMENSIONS AS REQUIRED FOR EACH INSTALLATION.

SHIM DETAIL

NOTE: FINISH: PAINTED. 1/8" THICK AND 3000 IN-TORSION. SHALL BE FABRICATED FROM BRASS SHIM ASTM B 36.

SECTION A-A

GENERAL NOTE:
1. SEE SHIM FOR GENERAL NOTES.

SECTION B-B

NOTE: D-3 REINFORCING BARS WITH HEAT TREATING AND BEVELS ON FLAT WASHERS UNDER EACH BOLT HEAD AND BEVELS ON FLAT WASHERS UNDER HEADS UNDER OTHER NOTES.

END ELEVATION OF POST AND FOOTING

POST BRACING DATA

POST SIZE	WE X 9	WE X 12	WE X 15	WE X 18	WE X 21	WE X 26
DESCRIPTION	W12 X 26	W18 X 22	W18 X 15	W18 X 12	W18 X 9	W12 X 9
BOLT SIZE	3/4" X 2 1/2"	3/4" X 2"	3/4" X 2"	3/4" X 2 1/2"	3/4" X 2 1/2"	3/4" X 2 1/2"
ANGLE LENGTH	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
ANGLE SIZE FOR POST SPACING OF	L3/2" X 4' X 3/4"	L3/2" X 3 1/2' X 1/2"	L3/2" X 3' X 1/2"	L3/2" X 3' X 1/2"	L3/2" X 3' X 1/2"	L3/2" X 3' X 1/2"
FOOTING DEPTH (AS REQUIRED ELSEWHERE ON PLANS)	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"

BASE CONNECTION DATA

POST SIZE	A	B	C	D	E	T ₁	T ₂	W	R	F	G	H	J	K	L	N	O ₁	O ₂	T ₃	MIN. BOLT TENSION (kips)	MIN. BOLT DIAMETER (inches)	FOOTING DIAMETER	FOOTING DEPTH
WE X 9	5'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	12,000	1/2"	2'-0"	3'-0"
WE X 12	5'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	12,000	1/2"	2'-0"	3'-0"	3'-0"
WE X 15	5'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	12,000	1/2"	2'-0"	3'-0"	3'-0"
WE X 18	5'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	12,000	1/2"	2'-0"	3'-0"	3'-0"
WE X 21	5'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	12,000	1/2"	2'-0"	3'-0"	3'-0"
WE X 26	5'-0"	2'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	12,000	1/2"	2'-0"	3'-0"	3'-0"

FOOTING DATA

POST SIZE	WE X 9	WE X 12	WE X 15	WE X 18	WE X 21	WE X 26
DESCRIPTION	W12 X 26	W18 X 22	W18 X 15	W18 X 12	W18 X 9	W12 X 9
BOLT SIZE	3/4" X 2 1/2"	3/4" X 2"	3/4" X 2"	3/4" X 2 1/2"	3/4" X 2 1/2"	3/4" X 2 1/2"
ANGLE LENGTH	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"
ANGLE SIZE FOR POST SPACING OF	L3/2" X 4' X 3/4"	L3/2" X 3 1/2' X 1/2"	L3/2" X 3' X 1/2"	L3/2" X 3' X 1/2"	L3/2" X 3' X 1/2"	L3/2" X 3' X 1/2"
FOOTING DEPTH (AS REQUIRED ELSEWHERE ON PLANS)	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"

REMOVE ALL GALVANIZING WASHERS ARE IN.

H.S. BOLT WITH HEX HEADS FOR POSTS AND CONCRETE WASHERS FOR POSTS. SEE TABLE FOR POST SIZES AND CONCRETE WASHERS FOR POSTS. SEE TABLE FOR POST SIZES AND CONCRETE WASHERS FOR POSTS. SEE TABLE FOR POST SIZES AND CONCRETE WASHERS FOR POSTS.

CONCRETE FOOTING SHALL BE REINFORCED WITH THREE #4 BARS AT TOP AND ONE #4 BAR AT BOTTOM.

NOTE: STUD PROJECTION SHALL BE MEASURED OVER A 4'-0" CHORD FOR HIGHWAY SIGNS, LAMPARIS AND TRAFFIC SIGNALS. LATEST EDITION.

*** NOTE: FOOTING DEPTH TO BE SHOWN ELSEWHERE IN THE PLANS.

NOTE: STUD PROJECTION SHALL BE MEASURED OVER A 4'-0" CHORD FOR HIGHWAY SIGNS, LAMPARIS AND TRAFFIC SIGNALS. LATEST EDITION.

*** NOTE: FOOTING DEPTH TO BE SHOWN ELSEWHERE IN THE PLANS.

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MISS.	

MULTI-DIRECTIONAL SIGN POST & STUB POST

U.S. HEX. BOLT
3 WASHERS ALSO
REQUIRED PER BOLT.

SECTION A-A

NOTE: SEE DATA TABLE FOR DIMENSIONS

PROVIDE 1/2" DIA. MAX. HOLE IN THE INSIDE RADIUS OF THE STUB POST FOR GALVANIZE DRAINAGE.

FRICION CAP DETAIL

NOTE: SEE NOTE 3

SHIM DETAIL

NOTE: FINISH 2x4, 2x6, 2x8, 2x10 AND 2x12 SHALL BE PER PLAN. SHIM SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B 36.

BOLT KEEPER PLATE DETAIL

NOTE: TO BE FABRICATED FROM 28 GAGE TYPE 42 GALVANIZED STEEL. CAP BE INSTALLED AS SHOWN IN DETAIL AT UPPER LEFT.

GENERAL NOTES: (SEE MK. NO. SN-6 FOR ADDITIONAL GENERAL NOTES)

1. THE TOP PLATE OF THE TRIANGULAR SLIP BASE SHALL HAVE THE SAME EXTERIOR DIMENSIONS AS THE BOTTOM PLATE. THE LIFTING CONE SHALL BE WELDED TO THE BOTTOM PLATE ONLY. A HOLE EQUAL TO THE INSIDE DIAMETER OF THE SIGN POST SHALL BE LOCATED AT THE CENTER OF THE TOP PLATE WITH THE HOLE EDGE BEVELLED AS DETAILED. TOP & BOTTOM PLATES SHALL BE SYMMETRICAL FOR THE PURPOSE OF ASSEMBLY IN ANY POSITION.
2. BASE CONNECTION ASSEMBLY AS FOLLOWS:
 - A. ASSEMBLE POST TO STUB WITH 3 BOLTS AND WITH 3 FLAT WASHERS PER BOLT.
 - B. SHIM AS REQUIRED TO PLUMB POST TO BE VERTICAL WITH A 10° TO 15° WRENCH TO BED WASHERS, KEEPER PLATE, SHIMS AND TO CLEAN THREADS.
 - C. LOOSEN EACH BOLT IN TURN & RETIGHTEN IN A SYSTEMATIC FASHION TO PRESCRIBED TORQUE. (SEE BASE CONNECTION DATA TABLE).
 - D. BUREN THREADS AT JUNCTION WITH NUT WITH A CENTER PUNCH TO PREVENT NIT FROM LOOSENING.
3. FRICTION CAPS TO BE MANUFACTURED FROM HOT ROLLED OR COLD ROLLED STEEL SHEETS. FOR ALL PIPE SIZES, MINIMUM THICKNESS SHALL BE 20 GAGE SHEET METAL. RIM EDGES SHALL BE REASONABLY STRAIGHT AND SMOOTH. CAPS SHALL BE MANUFACTURED WITH A MINIMUM FRICTION FIT AND HAVE NO TENDENCY TO ROCK WHEN SEATED ON PIPE. THE DEPTH SHALL BE SUFFICIENT TO GIVE POSITIVE PROTECTION AGAINST ENTRANCE OF RAINWATER. CAPS SHALL BE MANUFACTURED WITH A PROTECTIVE FINISH AND SHOW NO SIGNS OF METAL FRACTURE. ALL CAPS TO BE SAME IN SHAPE AND GENERAL APPEARANCE AS APPROVED BY THE ENGINEER.
4. STUB PROJECTION SHOULD BE MEASURED OVER A 5'-0" CHORD AS PER AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR SIGN. SEE MK. NO. SN-6 FOR ADDITIONAL SPECIFIC SYMBOLS. LATEST EDITION. SEE MK. NO. SN-6A FOR DIAGRAM.
5. AS AN ALTERNATIVE THE POST LENGTH OF THE SIGN POST CAN BE MADE-UP USING A NOMINAL LENGTH OF GALVANIZED PIPE, A GALVANIZED SLIP BASE CASTING, GALVANIZED FLAT PLATES OR APPROVED EQUAL WITH ALL NECESSARY HARDWARE REQUIRED TO SECURE THEM TO THE SIGN POST. A GALVANIZED KEEPER PLATE AND A GALVANIZED FRICTION CAP. THE SLIP BASE CASTING SHALL HAVE 3-SOCKETS TO ACCEPT 3-BOLTS TO SECURE THEM TO THE SIGN POST. THE MANUFACTURER SHALL PROVIDE SHOP DRAWINGS OF THE COMPLETE ASSEMBLY FOR WOOD APPROVAL.

POST ELEVATION

BASE CONNECTION DATA TABLE

DIMENSIONS	BOLT SIZE	W	C	D	E	F	G	H	J	K	L	M	N	P	S	U	V	R	
3"	3/8"	1"	108"	2 1/2"	1/2"	3/8"	1/2"	3/4"	3/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2 1/4"	6"	9"	2"	4 1/4"	1/4"
3 1/2"	3/8"	1 1/8"	133"	2 1/2"	1/2"	3/8"	1/2"	3/4"	3/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2 1/4"	6"	9"	2"	4 1/4"	1/4"
5"	3/8"	1 1/4"	158"	2 1/2"	1/2"	3/8"	1/2"	3/4"	3/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	2 1/4"	6"	9"	2"	4 1/4"	1/4"

* NOTE: APPROXIMATE DIMENSIONS

PAY LENGTH FOR POST + POST LENGTH + STUB LENGTH

SEE DETAILS ELSEWHERE ON PLANS

SPACE BETWEEN PLATES DUE TO WASHERS & BOLT KEEPER

2 1/2"

TOP OF FOOTING FLUSH WITH GRADE

CONCRETE FOOTING

SIGN POST

SIGN FACE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
BREAKAWAY SIGN SUPPORTS	
DATE	ISSUE DATE: MAY 01, 2017
REVISION	SHEET NUMBER 6312

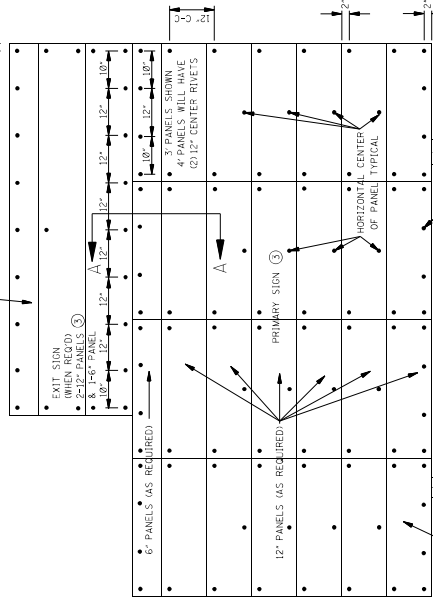
STATE: MISS. PROJECT NO.:

WORKING NUMBER: SN-05

SHEET NUMBER: 6312

STATE	PROJECT NO.
MISS.	

2 1/2" x 8", 0.063 GAUGE ALUMINUM FOR 2 DIGIT EXIT, 16" EXIT 47,
 2 1/2" x 10", 0.063 GAUGE ALUMINUM FOR 3 DIGIT EXIT, 16" EXIT 47A OR EXIT 38A.

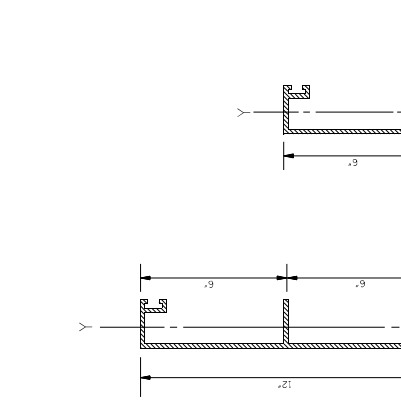
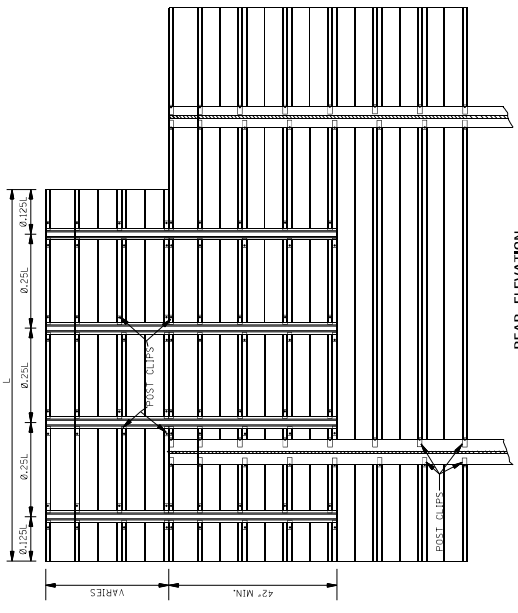


1. SIGN FACE IS TO BE CONSTRUCTED OF 3" AND 6" BOLT SPACING OVER 3" PANELS. EX. A 12" WIDE SIGN = (3) 4" PANELS. A 15" WIDE SIGN = (3) 4" + (3) 3" PANEL BOLT = 3/8" - 16 UNC X 3/4" WITH FLAT WASHER AND HEX NUT (24' O.C.)

2. U-SECTION POST (WHERE REQUIRED)

3. POST CLIP BOLT, 3/8" - 16 UNC X 2 1/2" NUT (WHERE REQUIRED)

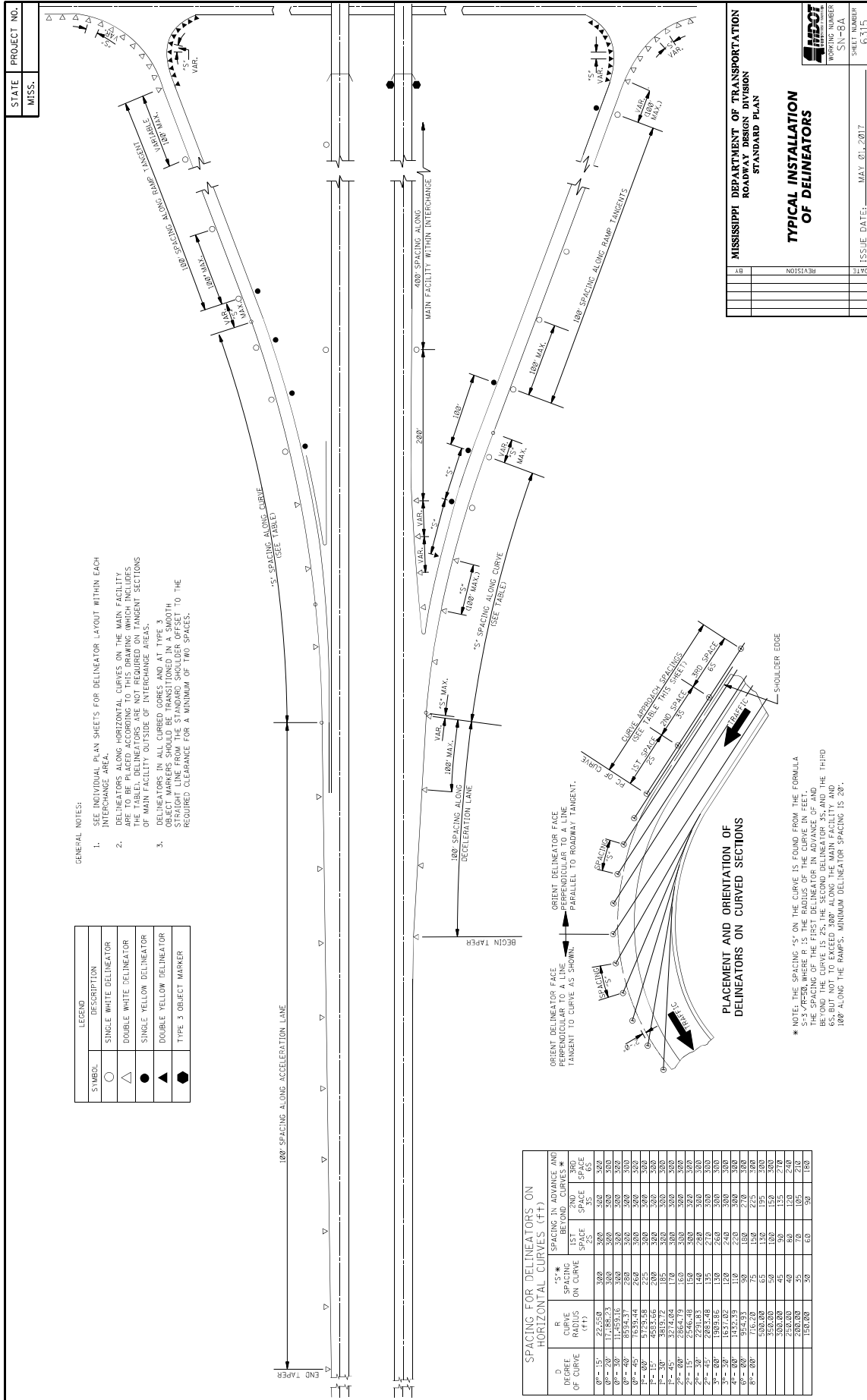
4. ALUMINUM POST CLIP WITH FLAT WASHER AND STOP STEEL BEAM (AS REQUIRED)



NOTE: THE REQUIRED SECTION MODULUS (MINIMUM) ABOUT THE PANELS = 8,108 in³
 6" PANELS = 0.257 in³

- GENERAL NOTES**
1. EXIT SIGNS, EXCEPT AS NOTED BELOW, SHALL BE ATTACHED TO PRIMARY SIGN PANELS AS SHOWN AND SHALL BE SECURED AND FOUR PUNCHED AS NEEDED FOR INSTALLATION. U-SECTION POST SHALL BE USED FOR ALL SIGNS WITH 12" UPPER PANELS AND 3"-6" FOR PRIMARY SIGNS WITH 12" UPPER PANELS. EACH POST SHALL HAVE SEVEN BOLTS - THREE (3) IN EXIT SIGN AND FOUR (4) IN PRIMARY SIGN, WHERE PANELS ARE MOUNTED TO STEEL BEAMS. THE BOLTS SHALL BE TIGHTENED TO THE PLACE BOLTS IN UPPER SLOT WHERE NECESSARY. THE POST SPACING SHOWN ON REAR ELEVATION MAY BE ADJUSTED SOMEWHAT TO STAY CLEAR OF SIGN POSTS AND POST CLIPS.
 2. ALL BOLTS, WASHERS AND NUTS IN THE FABRICATION OF EXTRUDED ALUMINUM SIGNS AND THE ATTACHMENT OF SAME TO STEEL BEAMS SHALL BE ALUMINUM, AS PER SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED. THE BOLTS SHALL BE LOCK-HEADED DESIGNED TO FIT THE BOLT SLOTS IN THE PANELS. THE LOCK-NUTS SHALL BE TIGHTENED ON CLEAN, DRY, "AS RECEIVED" THREADS TO A TORQUE OF 150 in • lbs.
 3. UNLESS OTHERWISE SPECIFIED, THE BACKGROUND OF ALL DIRECTIONAL SIGNS (INCLUDING OVERHEAD SIGNS) SHALL BE INTERSTATE GREEN REFLECTORIZED SHEETING (AS PER STANDARD SPECIFICATIONS) MOUNTED TO ALUMINUM SIGN PANELS OF 0.063" ALUMINUM. THE COPY SHALL BE WHITE, REFLECTORIZED, DIRECT APPLIED, ADHESIVE BACKED, LETTERS, NUMBERS, SYMBOLS, AND BORDER.
 4. SEE OTHER DRAWINGS FOR SELECTION AND DETAILS OF STEEL BEAMS FOR VERTICAL SUPPORTS (SIGN POSTS).
 5. THE DETAILS OF SIGN FACE CONSTRUCTION SHOWN ON THIS SHEET ARE THE SAME FOR OVERHEAD SIGNS, BUT THE METHOD OF MOUNTING IS SHOWN ON OVERHEAD TRUSS DRAWINGS.
 6. PLATE OF ERECTION AND SIGN SIZE WITHIN X HEIGHT SHALL BE LEGIBLY WRITTEN ON THE BACK OF EACH SIGN WITH A PERMANENT GREASE MARKER.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		WORKING NUMBER SN-7	SHEET NUMBER 6313
SIGN FACE CONST. AND ATTACHMENT OF GROUND MOUNTED DIRECTIONAL SIGNS TO STEEL BEAMS (EXTRUDED ALUMINUM)		ISSUE DATE: MAY 01, 2017	
DATE	REVISION		



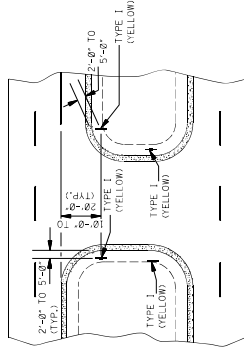
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TYPICAL INSTALLATION OF DELINEATORS

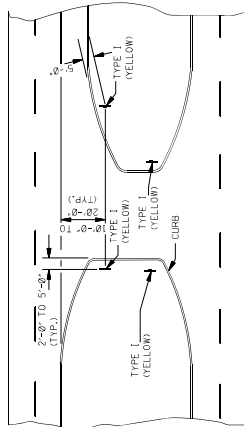
DATE: _____ REVISION: _____
BY: _____

ISSUE DATE: MAY 01, 2017
SHEET NUMBER: 6315
WORKING NUMBER: SN-8A

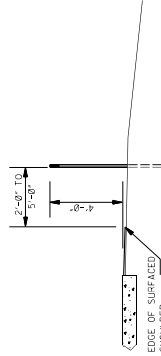
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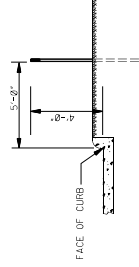
TYPICAL DELINEATION AT A CROSSOVER WITH USABLE SHOULDERS AND A MEDIAN WIDTH OVER 42'-0"



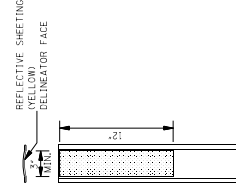
TYPICAL DELINEATION AT A CURBED CROSSOVER WITH A MEDIAN WIDTH OVER 42'-0"



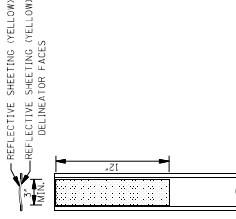
DELINEATOR MOUNTING ON CROSSOVER WITH USABLE SHOULDER



DELINEATOR MOUNTING ON CURBED CROSSOVER

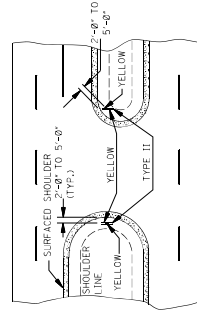


DETAIL OF TYPE I FLEXIBLE POST DELINEATOR

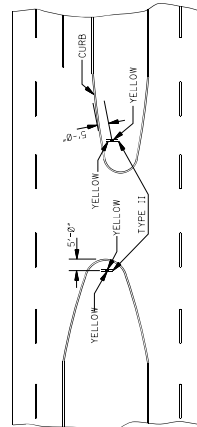


DETAIL OF TYPE II FLEXIBLE POST DELINEATOR

NOTE: CARBONITE'S SUPPLIED DELINEATOR POSTS ARE SHOWN. OTHER FLEXIBLE POSTS WHICH HAVE BEEN APPROVED BY THE MISSISSIPPI DEPARTMENT'S 'APPROVED SOURCE OF MATERIALS' MAY BE FURNISHED.



TYPICAL DELINEATION AT A CROSSOVER WITH USABLE SHOULDERS AND A MEDIAN WIDTH OF 42'-0" OR LESS



TYPICAL DELINEATION AT A CURBED CROSSOVER WITH A MEDIAN WIDTH OF 42'-0" OR LESS

NOTE: PLACE DELINEATORS NO MORE THAN 20'-0" FROM EDGE OF TRAVEL LINES EDGES.

GENERAL NOTES:

1. THE UNIT PRICE OF DELINEATORS INCLUDES COSTS OF DELINEATOR FACES, POST, HARDWARE AND INSTALLATION.
2. DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
3. POST REQUIRING THE INSTALLATION OF A BASE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
4. THE COLOR OF DELINEATORS SHALL BE THE COLOR OF THE ADJACENT EDGE LINE PER MUTED SECTION 31403.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

DATE	BY	REVISION

TYPICAL CROSSOVER DELINEATION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
WORKING NUMBER
SN-85

ISSUE DATE: MAY 01, 2017
SHEET NUMBER
6316

STATE MISS.	PROJECT NO.		
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**GRAPHIC SHOWING SPACINGS OF GUARDRAIL DELINEATORS
AT SOME COMMONLY USED BRIDGE APPROACHES**

EMBANKMENT OR ROADSIDE OBSTACLE INSTALLATION—LENGTH GREATER THAN 250'

NOTE: ONE-WAY TRAFFIC SHOWING DELINEATOR SPACING FOR TWO-WAY TRAFFIC. DELINEATOR COLOR WILL BE THE SAME AS THE ADJACENT PAVEMENT EDGE MARKING. THE FIRST THREE CHARMERS WILL FACE TRAFFIC IN OFF LANE FOR TWO-WAY TRAFFIC AS SHOWN IN DRAWING FOR OBSTACLE INSTALLATION FOR TWO-WAY TRAFFIC.

**BRIDGE APPROACH INSTALLATION
(TWO-WAY TRAFFIC)**

**ROADSIDE OBSTACLE INSTALLATION—LENGTH 250' OR LESS
(TWO-WAY TRAFFIC)**

**BRIDGE APPROACH INSTALLATION
(ONE-WAY TRAFFIC)**

**ROADSIDE OBSTACLE INSTALLATION—LENGTH 250' OR LESS
(ONE-WAY TRAFFIC)**

**DETAIL OF FLEXIBLE
GUARDRAIL DELINEATOR**

**TYPICAL FLEXIBLE POST DELINEATOR
GUARDRAIL INSTALLATION**

GENERAL NOTES:

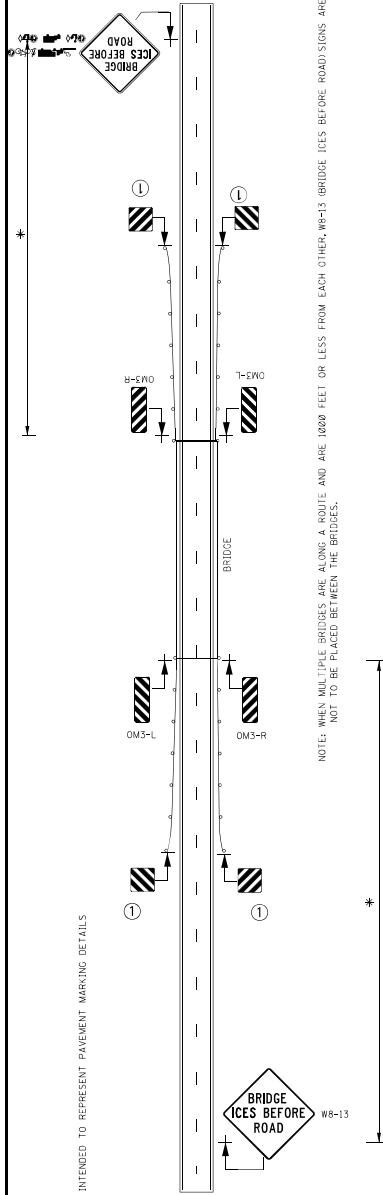
1. THE UNIT PRICE OF DELINEATOR (INCLUDES COSTS) OF DELINEATOR FACE(S), POST, HARDWARE AND INSTALLATION.
2. DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
3. DELINEATORS FOR GUARDRAIL SHALL BE MOUNTED ON FLEXIBLE POSTS AS FOLLOWS: THE DELINEATOR POSTS WILL BE FROM THE DEPARTMENT'S "APPROVED SOURCE OF MATERIALS" AND WILL BE FASTENED TO GUARDRAIL POST IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN**

**TYPICAL GUARDRAIL
DELINEATION**

REV	REVISION	DATE	SHEET NUMBER SN-8C	ISSUE DATE MAY 01, 2017	

STATE	PROJECT NO.
MISS.	



NOTE: WHEN MULTIPLE BRIDGES ARE ALONG A ROUTE AND ARE 1800 FEET OR LESS FROM EACH OTHER, W8-13 BRIDGE ICES BEFORE ROAD SIGNS ARE NOT TO BE PLACED BETWEEN THE BRIDGES.

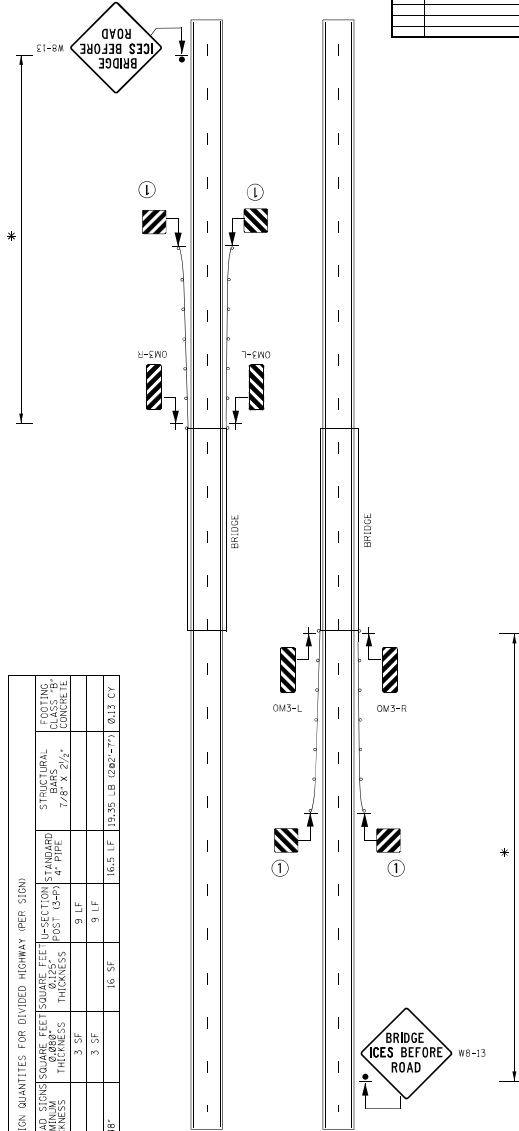
UNDIVIDED HIGHWAY DETAIL

SIGN QUANTITIES FOR UNDIVIDED HIGHWAY (PER SIGN)			
MUTCD NUMBER	STANDARD ROAD SIGN SHEET ALUMINUM THICKNESS	SQUARE FEET	OPERATION POST (S-P)
OM3-L	12" X 36"	3 SF	9 LF
OM3-R	12" X 36"	3 SF	9 LF
W8-13	36" X 36"	9 SF	15 LF

SIGN QUANTITIES FOR DIVIDED HIGHWAY (PER SIGN)			
MUTCD NUMBER	STANDARD ROAD SIGN SHEET ALUMINUM THICKNESS	SQUARE FEET	OPERATION POST (S-P)
OM3-L	12" X 36"	3 SF	9 LF
OM3-R	12" X 36"	3 SF	9 LF
W8-13	48" X 48"	16 SF	16.5 LF (267=75) 0.13 CF

* TABLE 7C-4 MUTCD	
SPEED (MPH)	MINIMUM PLACEMENT (FEET)
35	100
40	120
45	135
50	150
55	165
60	180
65	195
70	210
75	225
80	240
85	255
90	270
95	285
100	300

① REFLECTIVE ADHESIVE SHEETING WITH ALTERNATING BLACK AND YELLOW STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS) IS REQUIRED ON THE END OF THE TERMINAL END SECTION. NOT A SEPARATE PAY ITEM. COST TO BE ABSORBED IN GUARD RAIL.



DIVIDED HIGHWAY DETAIL

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

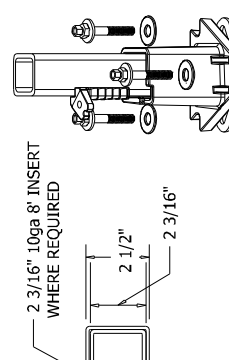
SIGNING DETAILS FOR BRIDGE APPROACHES

ISSUE DATE: MAY 01, 2017
SHEET NUMBER 6318

DRAWING NOT INTENDED TO REPRESENT PAVEMENT MARKING DETAILS

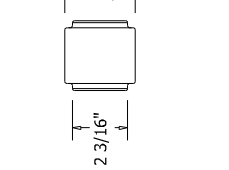
STATE	PROJECT NO.
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FLAT PANEL SIGN BRACE



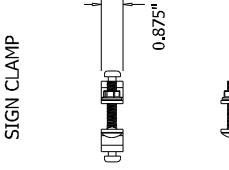
3/8" ALUMINUM SHELL / STEEL CORE RIVET WITH NYLON WASHER. MAXIMUM DISTANCE BETWEEN RIVETS SHOULD BE 12". WASHER SIGN BRACE IS AVAILABLE IN ALUMINUM SIGN PANEL. ALL EXTRUDED PANEL SIGNS SHALL USE 3/16"x3/8" GRIP RANGE ALUMINUM POP-RIVETS (#66).

EXTRUDED PANEL SIGN CLAMP



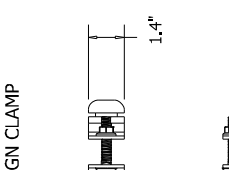
MATERIALS: 1.4" WIDE x 1 1/8" TYPE 304 #2B FINISHED STAINLESS STEEL BRACKET. INCLUDES STAINLESS STEEL NUT, ONE CLAMP REQUIRED FOR EACH BRACE TO POST JUNCTION.

POST CAP



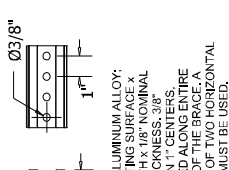
MADE OF 16GA PREGALVANIZED STEEL WITH AN ID CAPABLE OF FITTING INTO THE INSIDE OF A 2-1/2" SQUARE STEEL POST WITHOUT ANY FASTENERS. A CAST ALUMINUM FRICTION FIT CAP MAY ALSO BE USED.

UNIBASE ANCHOR STUB



38" UNIBASE ANCHOR A600 GRADE B TUBE WELDED TO A572 SLIP PLATE. GALVANIZED PER ASTM A153.

SIGN DRIVE RIVET W/WASHER



3/8" ALUMINUM SHELL / STEEL CORE RIVET WITH NYLON WASHER. MAXIMUM DISTANCE BETWEEN RIVETS SHOULD BE 12". WASHER SIGN BRACE IS AVAILABLE IN ALUMINUM SIGN PANEL. ALL EXTRUDED PANEL SIGNS SHALL USE 3/16"x3/8" GRIP RANGE ALUMINUM POP-RIVETS (#66).

POST LOCKING WEDGE



LOCKING WEDGE FORGED FROM SAE 1035 STEEL AND GALVANIZED PER ASTM A153.

SURFACE MOUNT BASE



A572 SLIP PLATE WELDED TO A600 GRADE B TUBE WELDED TO A572 MOUNTING PLATE. GALVANIZED PER ASTM A153.

SLIP PLATE DIMENSION

RECEIVER TO BE CAST FROM DUC TILITE PER SAE J45-12 GALVANIZED PER ASTM A153.

2-1/2" SQUARE POST RECEIVER

RECEIVER TO BE CAST FROM DUC TILITE PER SAE J45-12 GALVANIZED PER ASTM A153.

2-1/2" SQUARE POST RECEIVER

RECEIVER TO BE CAST FROM DUC TILITE PER SAE J45-12 GALVANIZED PER ASTM A153.

SLIP BASE MATCH PLATE HARDWARE KIT

1 1/2" x 3" x 1/4" GRADE 8 DOUBLE HEX BOLT, GALVANIZE PER ASTM B865 (3 EACH PER KIT)
 5/8" U.S.S. FLAT WASHER AND B. (8.22.11) GALVANIZE PER ASTM B865 (8 EACH PER KIT)
 1/4" SQUARE x 3/16" THICK TEFLON COATED HARDENED SLIP WASHER (3 EACH PER KIT)
 1/4" x 3/8" GRADE 8 LARGE FLANGE NUT GALVANIZE PER ASTM B865 (3 EACH PER KIT)

example slip base assembly (detailed below)

NOTES:

- A. CONCRETE FOOTING MUST BE 12" DIAMETER x 36" DEEP.
- B. BRASS SHIMS MAY BE USED BETWEEN SLIP PLATES TO LEVEL THE UPPER SLIP PLANE.
- C. SLIP BASE IS FHWA ACCEPTED. MEETING CURRENT AASHTO & NCHRP 350 REQUIREMENTS.
- D. SIGN BRACE CLAMPS ALLOW SIGN BRACE TO BE ADJUSTED UP, DOWN, LEFT OR RIGHT IN ORDER TO ACHIEVE PERFECT POSITION OF SIGN PANEL.
- E. USE INSTALLATION INSTRUCTION RT280U-S01.
- F. PRODUCT MUST MEET FHWA'S MADE IN AMERICA CLAUSE.
- G. PAID BY LENGTH OF POST, 36" STUB TO BE ABSORBED.

TABLE

SIGN CENTROID	2-1/2" x 10ga PSST	2-1/2" x 10ga & 2-3/16" x 10ga Inset PSST	Sign Bracing**
16'	24.82	43.46	18" maximum distance between braces
15'	26.48	46.36	18" maximum distance between braces
14'	28.38	49.66	18" maximum distance between braces
13'	30.56	53.48	18" maximum distance between braces
12'	33.10	57.94	18" maximum distance between braces
11'	36.12	63.20	18" maximum distance between braces

* based on two legs per sign

** Minimum of two braces per flat panel sign

NOTE: Sign area is in square feet.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SIGN SUPPORT HARDWARE
 2.5" SQUARE POST

PROJ. NO.:
 COUNTY:
 FILE NAME: JSS-LDGN

DATE: MAY, 2022

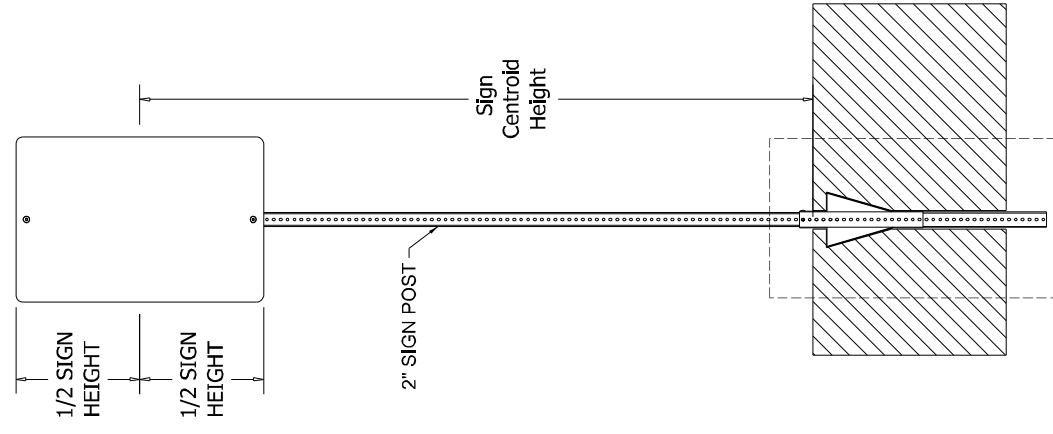
DESIGN TEAM: MOST

CHECKED: [Signature]

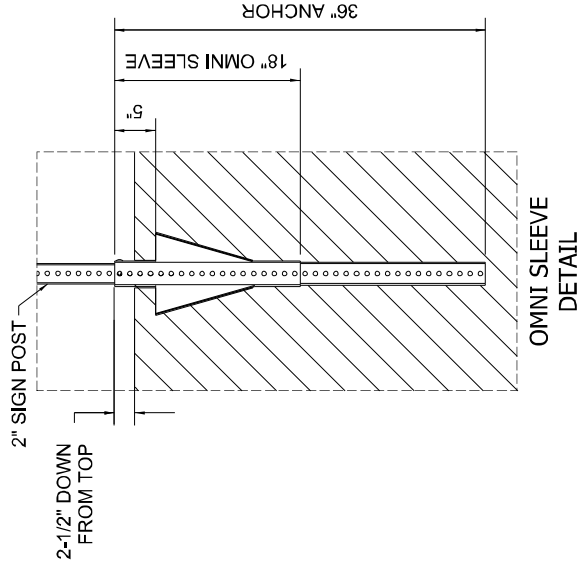
DATE: [Signature]

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SOIL INSTALLATION

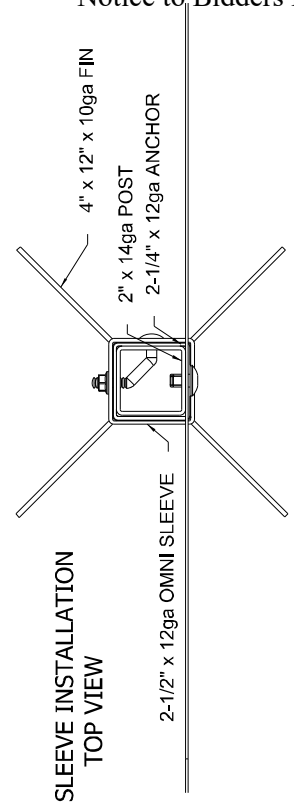


SEE OMNI SLEEVE DETAIL



OMNI SLEEVE DETAIL

OMNI SLEEVE INSTALLATION TOP VIEW

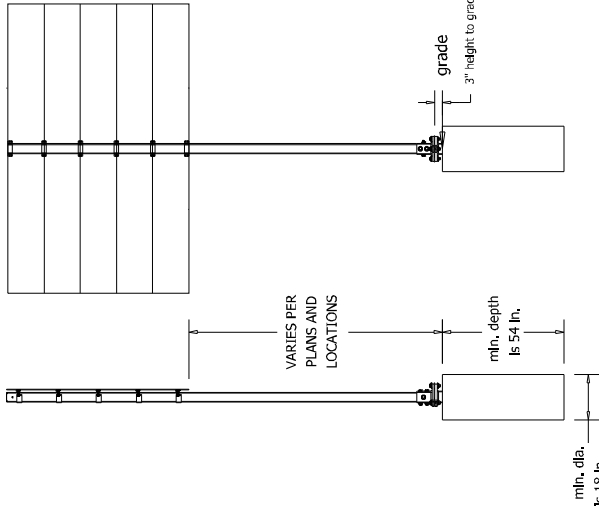


MATERIALS: PERFORATED SQUARE STEEL TUBE Post and Anchor (PSST): Must be ASTM A1011, Grade 50 steel, with an average minimum yield strength after cold-forming must be 60,000 psi. It must be corner welded, scarfed after welding, then zinc coated after scarfing. It must be coated with a chromate conversion coating and a clear organic polymer topcoat. Its interior and exterior will be galvanized. It must have 7/16" holes spaced 1" apart along the centerline of each of its four sides. POST must be 2" x 14ga x appropriate length. ANCHOR must be 2-1/4" x 12ga x 36". OMNI SLEEVE must be: 2-1/2" x 12ga x 18" and contain four 4" x 12" x 10ga ASTM A569 steel fins welded to each of the four corner edges of the square sleeve with 4" flat end of each fin positioned 5" down from one end, and must be galvanized. A medium corner bolt must be used to secure the assembly.

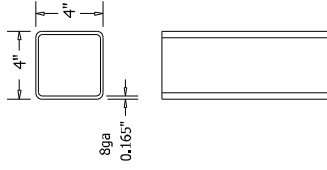
- NOTES:**
- A. PAID BY LENGTH OF POST. 36" ANCHOR TO BE ABSORBED.
 - B. OMNI SLEEVE TO BE ABSORBED IN PRICE BID FOR SQUARE POST.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
SIGN SUPPORT HARDWARE	
2.0" SQUARE POST	
PROJ. NO.:	
COUNTY:	
MODIFICATION NUMBER	PS-2
SHEET NUMBER	1
DATE	MAY 2002
DESIGN TEAM	MOBT
CHECKED	

SIGN CLAMP KIT



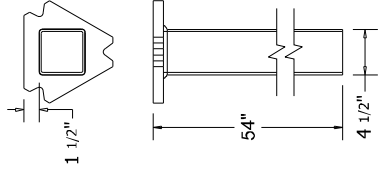
SIGN POSTS



STEEL CONFORMS TO ASTM A500, Grade C. MUST BE WELDED, SCARFED OUTSIDE AFTER WELDING, THEN ZINC FLOCCOAT GALVANIZED INTERIOR AND EXTERIOR AFTER SCARFING. MUST BE COATED WITH A CROMATE CONVERSION COATING & CLEAR ORGANIC POLYMER TOPCOAT. POST WEIGHT IS 8.8 lbs./ft.

MATERIALS: 2" WIDE x 3/16" TYPE 304, #2B FINISHED STAINLESS STEEL BRACKET. INCLUDES 2 STAINLESS STEEL 3/8"-16 x 2" T-HEAD BOLTS AND SERRATED FLANGED NUTS. ONE CLAMP REQUIRED FOR EACH BRACE TO POST JUNCTION.

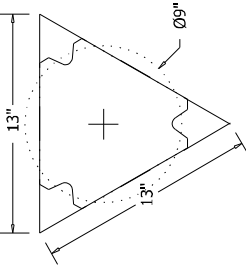
UNIBASE ANCHOR STUB



4-1/2" x 54" x 7 GA UNIBASE ANCHOR AS500 GRADE B TUBE WELDED TO 1" THICK A572 SLIP PLATE, GALVANIZED PER ASTM A153.

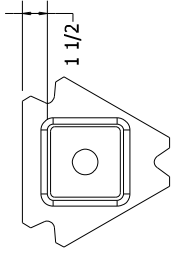
SIGN CLAMP KIT

SLIP PLATE DIMENSION

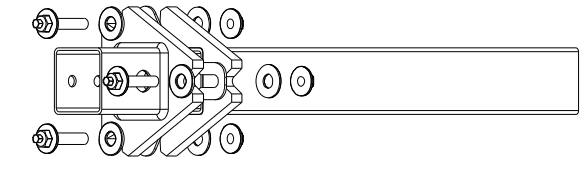


13" OMNIDIRECTIONAL SLIP BASE RECEIVER FOR 4" SQUARE STEEL POSTS. AS500 STEEL TUBE WELDED TO 1" THICK A572 SLIP PLATE, GALVANIZED PER ASTM A153.

4" SQUARE POST RECEIVER



SLIP BASE ASSEMBLY



POST ATTACHMENT HARDWARE KIT WILL CONSIST OF:
 (3) 5/8" x 1-1/2" HEX BOLTS - A325
 (3) 5/8" x 1-3/4" AR400 WASHER
 (3) 5/8" x 1-3/8" AR400 WASHER
 (3) 5/8" HEX NUTS - A563DH
 ALL HOT DIP GALVANIZED PER ASTM A153/F2329.
 NOTE: 1 POST ATTACHMENT HARDWARE KIT IS USED FOR SLIP BASE TOP POST RECEIVER. TORQUE TO 100 ft-lbs.

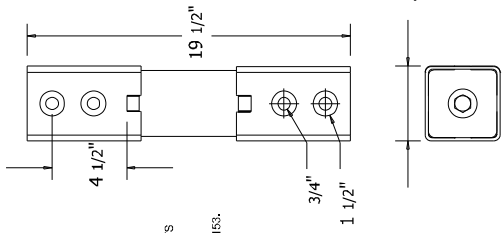
	3/4" x 10 x 3-1/2" GRADE 8, DOUBLE HEADED FLANGE BOLT, GALVANIZE PER ASTM B685, class 50, (8 EACH PER KIT)
	7/8" U.S.S. FLAT WASHER ANSIB 18-22.1, TYPE A WIDE, GALVANIZE PER ASTM B685, class 50 (8 EACH PER KIT)
	2-1/2" SQUARE x 3/16" THICK TEFLON COATED, HARDENED SLIP WASHER (8 EACH PER KIT)
	3/4" x 10 GRADE 8 FLANGE NUT GALVANIZE PER ASTM B685, class 50 (8 EACH PER KIT)

SLIP BASE MATCH PLATE HARDWARE KIT (SLIP BASE HARDWARE TORQUED IS 60 FT-LBS.)

NOTES:
 A. CONCRETE FOOTING MUST BE A MINIMUM OF 18" DIAMETER x 54" DEEP.
 B. BRASS SHIMS MAY BE USED BETWEEN SLIP PLATES TO LEVEL THE UPPER SLIP PLANE.
 C. MAXIMUM SIGN AREA PER SIGN BRACKET TOP POST JUNCTION IS 10FT².

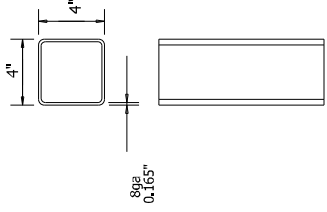
MISSISSIPPI DEPARTMENT OF TRANSPORTATION SIGN SUPPORT HARDWARE	
4" SQUARE POST (SINGLE POST)	
PROJ. NO.:	FILE NAME: TSS-3.DGN
COUNTY:	DESIGN TEAM: MDT
WORK NUMBER: TSS-3	CHECKED: DATE: MAY 2002
SHEET NUMBER: 1	

HINGE ASSEMBLY



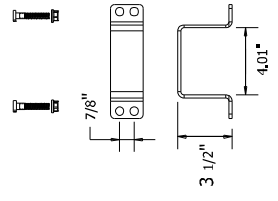
HINGE ASSEMBLY WILL CONSIST OF:
(2) STAINLESS STEEL HEX BOLTS
(2) FLAT WASHERS
(2) HINGE POST RECEIVER
SOCKETS - HDG PER ASTM A153.
(1) STAINLESS STEEL TUBE
(1) PIPE SLEEVE.
HDG PER ASTM A153.
TORQUE TO 100 FT-LBS.

SIGN POSTS

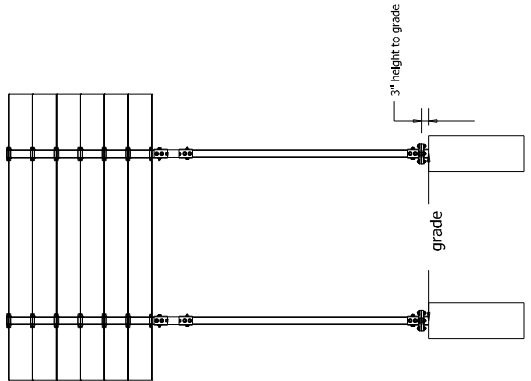


STEEL CONFORMS TO ASTM A500, GRADE C. MUST BE WELDED, SCARFED OUTSIDE AFTER WELDING, THEN ZINC FLO-COAT GALVANIZED INTERIOR AND EXTERIOR AFTER SCARFING. MUST BE COATED WITH A CROMATE CONVERSION COATING & CLEAR ORGANIC POLYMER TOPCOAT. POST WEIGHT IS 8.6 LBS./FT.

SIGN CLAMP KIT



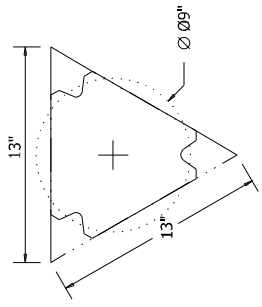
MATERIALS: 2" WIDE x 3/16" TYPE 304, #2B FINISHED STAINLESS STEEL BRACKET. INCLUDES 2 STAINLESS T-HEAD BOLTS AND SERRATED FLANGED NUTS. ONE CLAMP REQUIRED FOR EACH BRACE TO POST JUNCTION.



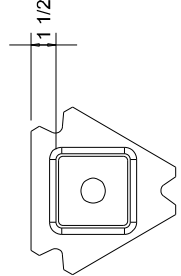
NOTE: TOP SIGN POST LENGTH IS SIGN HEIGHT PLUS 6".

min. dia. is 10 in.

SLIP PLATE DIMENSION

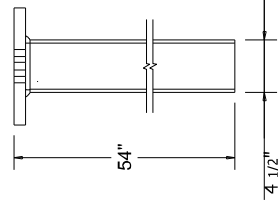


4" SQUARE POST RECEIVER



13" OMDIRECTIONAL SLIP BASE RECEIVER FOR 4" SQUARE SIGN POSTS. AS500 GRADE B TUBE WELDED TO 1" THICK A572 SLIP PLATE GALVANIZED PER ASTM A123.

UNIBASE ANCHOR STUB



4-1/2" x 54" x 7 GA UNIBASE ANCHOR AS500 GRADE B TUBE WELDED TO 1" THICK A572 SLIP PLATE, GALVANIZED PER ASTM A123.



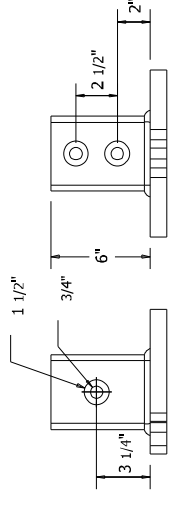
POST ATTACHMENT HARDWARE KIT WILL CONSIST OF:
(3) 5/8"-11 x 5-3/4" HEX BOLTS - A325
(3) 5/8" x 1-3/4" AR400 WASHER
(3) 5/8" x 1-3/8" AR400 WASHER
(3) 5/8" FLAT WASHERS - F436
(3) 5/8" HEX NUTS - A563DH

ALL HOT DIP GALVANIZED PER ASTM A153 F2329.
NOTE: 1 POST ATTACHMENT HARDWARE KIT IS USED FOR SLIP BASE TOP POST RECEIVER.
2 POST ATTACHMENT HARDWARE KITS ARE USED FOR HINGE ATTACHMENT TO MAIN POST AND TO SIGN POST.
TORQUE TO 100 FT-LBS.

	3/4" x 10 x 3/4" GRADE 8, DOUBLE HEADED FLANGE BOLT, GALVANIZE PER ASTM B689, CLASS 50, (3 EACH PER KIT)
	7/8" U.S. FLAT WASHERS AS500, TYPE A WIDE, GALVANIZE PER ASTM B689, CLASS 50 (6 EACH PER KIT)
	2-1/2" SQUARE x 3/16" THICK TEFLON COATED, HARDENED SLIP WASHER (3 EACH PER KIT)
	3/4" x 10 GRADE 8, LARGE FLANGE NUT GALVANIZE PER ASTM B689, CLASS 50, (3 EACH PER KIT)
SLIP BASE MATCH PLATE HARDWARE KIT (SLIP BASE HARDWARE TORQUE IS 60 FT-LBS.)	

- NOTES:
- CONCRETE FOOTING MUST BE A MINIMUM OF 18" DIAMETER x 54" DEEP.
 - BRASS SHIMS MAY BE USED BETWEEN SLIP PLATES TO LEVEL THE UPPER SLIP PLANE.
 - MAXIMUM SIGN AREA PER SIGN BRACKET TO POST JUNCTION IS 10FT².

4" SQUARE POST RECEIVER



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
SIGN SUPPORT HARDWARE

BY: _____ REVISION: _____
DATE: _____

4" SQUARE POST (DUAL POST)

PROJ. NO.: _____
COUNTY: _____

FILE NAME: JSS-4.DGN
DESIGN TEAM: _____
DATE: MAY 2021

WORKING NUMBER: JSS-4
SHEET NUMBER: _____

Full Depth Reclamation & DBST approximately 21 miles of SR 32 from Old Highway 7 to SR 330, known as State Project Nos. SP-2791-00(009) / 108265301 & SP-2791-00(010) / 108266301 in Yalobusha & Calhoun Counties.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
Roadway Items					
0010	202-B052		100	Square Yard	Removal of Concrete Driveways, All Depths
0020	202-B213		267	Each	Removal of Sign
0030	202-B240		2,435	Linear Feet	Removal of Traffic Stripe
0040	503-C010		1,300	Linear Feet	Saw Cut, Full Depth
0050	618-A001		1	Lump Sum	Maintenance of Traffic
0060	618-B001		2	Square Feet	Additional Construction Signs [\$10.00]
0070	619-A1001		68	Mile	Temporary Traffic Stripe, Continuous White
0080	619-A2002		60	Linear Feet	Temporary Traffic Stripe, Continuous Yellow
0090	619-A4002		11	Mile	Temporary Traffic Stripe, Skip Yellow
0100	619-A5001		4,000	Linear Feet	Temporary Traffic Stripe, Detail
0110	619-A6002		765	Linear Feet	Temporary Traffic Stripe, Legend
0120	620-A001		1	Lump Sum	Mobilization
0130	626-C002		46	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0140	626-D001		9	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0150	626-E001		40	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0160	626-G004		3,270	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0170	626-G005		1,260	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0180	626-H001		30	Square Feet	Thermoplastic Double Drop Legend, White
0190	626-H002		765	Linear Feet	Thermoplastic Double Drop Legend, White
0200	627-J001		472	Each	Two-Way Clear Reflective High Performance Raised Markers
0210	627-L001		2,445	Each	Two-Way Yellow Reflective High Performance Raised Markers
0220	630-A001		179	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0230	630-A003		864	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0240	630-A005		326	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.1" Thickness
0250	630-C005		2,415	Linear Feet	Square Tube Posts, 2.0 lb/ft
0260	630-G004		220	Each	Type 3 Object Markers, OM-3R or OM-3L
0270	699-A001		1	Lump Sum	Roadway Construction Stakes
0280	907-410-A002	(A2)	263,000	Gallon	Asphalt for Surface Treatment, Grade CRS-2P
0290	907-410-B001	(GY)	3,350	Cubic Yard	Seal Aggregate Cover Material, Size 7, Limestone
0300	907-410-B002	(GY)	2,900	Cubic Yard	Seal Aggregate Cover Material, Size 89, Limestone
0310	907-414-B001	(A2)	33,200	Gallon	Asphalt for Fog Seal
0320	907-424-A001		311,000	Square Yard	Roadbed Reclamation with Cement

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0330	907-424-B001		5,850	Ton	Cement
0340	907-619-E3001		2	Each	Changeable Message Sign