

North Dakota Department of Transportation

Grant Levi, P.E. *Director*

Jack Dalrymple Governor

ADDENDUM 2 - JOB 9

TO: All prospective bidders on project SHE-1-999(025), Job No. 9, scheduled for the October 9, 2015 bid opening.

The following plan and request for proposal revisions shall be made:

Plan Revisions:

See attached summary from Vance Hanson; Stanley Consultants Inc, dated September 30, 2015 for an explanation.

Request for Proposal Revisions:

Remove and replace pages 7-8 of 10 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed pages revised 10/2/2015.

Page 7 of 10:

Item 754 0110 FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING; quantity decreased from 6198 to 6166 SF.

Item 754 0210 GALV STEEL POSTS-STANDARD PIPE; quantity decreased from 2365 to 2342 LF.

Item 754 0214 GALV STEEL POSTS-W-SHAPE POSTS (TWO OR MORE); quantity increased from 351 to 649 LF.

Page 8 of 10:

Item 754 1100 CLASS AE CONCRETE-SIGN FOUNDATIONS; quantity decreased from 39.8 to 38.9 CY

Item 754 1104 REMOVE SIGN FOUNDATION; quantity decreased from 99 to 97 EA.

This addendum is to be incorporated into the bidder's proposal for this project.

Expedite bid files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at http://www.bidx.com/ or the Department's web page (http://www.dot.nd.gov) and load it into the Expedite program.

For CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:plm Enclosure



September 30, 2015

ADDENDUM 2 Job No. 9

TO: All prospective bidders and suppliers on Project SHE-1-999(025) PCN 20639, Job No. 2, scheduled for the October 9, 2015 bid opening.

Revisions for SHE-1-999(025):

Remove and Replace Plan Sheets:

- Section 8 Sheet 1
- Section 110 Sheet 9
- Section 110 Sheet 10
- Section 110 Sheet 14
- Section 110 Sheet 15
- Section 110 Sheet 17
- Section 110 Sheet 18
- Section 110 Sheet 19
- Section 110 Sheet 20
- Section 110 Sheet 21
- Section 110 Sheet 36
- Section 110 Sheet 37
- Section 110 Sheet 44
- Section 110 Sheet 61
- Section 110 Sheet 62
- Section 110 Sheet 76
- Section 110 Sheet 77
- Section 110 Sheet 77a
- Section 110 Sheet 90
- Section 110 Sheet 92
- Section 110 Sheet 93
- Section 110 Sheet 96

Section 8

- Remove and Replace Sheet 1.
- Revised quantity for bid item 754-214 Galv Steel Post-W-Shape Posts (two or more).
- Change in the quantities for bid items 754 110, 754 210, 754 1100, and 754 1104



Section 110

- Remove and Replace Sheet 9.
- Revised the post type for sign 160.792 Rt mdn from perforated tube to steel post. Moved to Section 110 Sheet 19.

Section 110

- Remove and Replace Sheet 10.
- Revised the post type for sign from steel post to perforated tube for 156-5 Rt. Moved from Section 110 Sheet 15.
- Revised Quantity for Perforated Tube.

Section 110

- Remove and Replace Sheet 14.
- Removed signs 917.043-1 Lt and 917.043-2 Lt mdn.

Section 110

- Remove and Replace Sheet 15.
- Revised the post type for sign from steel post to perforated tube for 156-5 Rt. Moved to Section 110 Sheet 10.
- Added a notes for signs 156-5 Rt and 156-4 Rt mdn.

Section 110

- Remove and Replace Sheet 17.
- Summary list shifted due to removal of signs 917.043-1 Lt and 917.043-2 Lt mdn.

Section 110

- Remove and Replace Sheet 18.
- Summary list shifted due to removal of signs 917.043-1 Lt and 917.043-2 Lt mdn.

Section 110

- Remove and Replace Sheet 19.
- Revised Post Type for sign 160.792 Rt mdn, and added note referring to Standard Drawing D-754-85G. Moved from Section 110 Sheet 9.



Section 110

- Remove and Replace Sheet 20.
- Added notes to signs 152.949 Lt and 152.949 Lt mdn referring to standard drawing D-754-85G.

Section 110

- Remove and Replace Sheet 21.
- Revised total quantities due to removal of signs 917.043-1 Lt and 917.043-2 Lt mdn.

Section 110

- Remove and Replace Sheet 36.
- Revised notes to signs 152.949 Lt, 152.949 Lt mdn, and 156-5 Rt.

Section 110

- Remove and Replace Sheet 37.
- Revised post type for 160.792 Rt mdn. Moved to Section 110 Sheet 19.

Section 110

- Remove and Replace Sheet 44.
- Removed signs 917.043-1 Lt and 917.043-2 Lt mdn.

Section 110

- Remove and Replace Sheet 61.
- Removed signs 917.043-1 Lt and 917.043-2 Lt mdn.

Section 110

- Remove and Replace Sheet 62.
- Revised Special Assembly for signs 156-4 Rt mdn and 156-5 Rt.

Section 110

- Remove and Replace Sheet 76.
- Updated State Route marker symbol for sign 6.

Section 110

- Remove and Replace Sheet 77.
- Updated State Route marker symbol for sign 8.



Section 110

- Add Sheet 77a.
- Added new detail sheet for the new state route marker design.

Section 110

- Remove and Replace Sheet 90.
- Removed signs 917.043-1 Lt and 917.043-2 Lt mdn and Special Assembly B.

Section 110

- Remove and Replace Sheet 92.
- Revised flashing beacon sign size.

Section 110

- Remove and Replace Sheet 93.
- Revised special assembly K (Added sign 160.792 Rt mdn from Section 110 Sheet 96) and L (Added sign 156-5 Rt from Section 110 Sheet 92) signs and notes.

Section 110

- Remove and Replace Sheet 96.
- Removed Special Assembly Y (sign moved to SA-K, Section 110 Sheet 93).

This addendum is to be incorporated into bidder's proposal for this project.

Sincerely,

Vance Hanson Project Manager

Enclosure(s): Revised Plan Sheets Project#: SHE-1-999(025)

cc: NDDOT

North Dakota Department of Transportation

BID OPENING: October 09, 2015

BID ITEMS

Job 009 Page 7 of 10 Rev: 10/2/2015

Projec	ct: SHE-1-999(025) (PCN-20639)		

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and
total. Do not carry unit prices further than three (3) decimal places.

		total	. Do not carry unit prices further than three (3) de	ecimal	places.				
	Spec	Code			Approx.	Unit Price	!	Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	251	0200	SEEDING CLASS II	ACRE	.380				
003	253	0201	HYDRAULIC MULCH	ACRE	.380				
004	702	0100	MOBILIZATION	L SUM	1.				
005	704	0100	FLAGGING	MHR	100.				
006	704	1000	TRAFFIC CONTROL SIGNS	UNIT	1,832.				
007	704	1060	DELINEATOR DRUMS	EA	80.				
800	704	1067	TUBULAR MARKERS	EA	76.				
009	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2.				
010	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	6,166.				
011	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	699.				
012	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	4,548.				
013	754	0210	GALV STEEL POST-STANDARD PIPE	LF	2,342.				
014	754	0214	GALV STEEL POSTS-W-SHAPE POSTS(TWO OR MORE)	LF	649.				
015	754	0534	PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING	SF	1,641.				
016	754	0541	OVERLAY PANEL-TYPE IV REFLECTIVE SHEETING	SF	294.				

BID OPENING: October 09, 2015

Job 009Page 8 of 10

	Page	0 01	10
BID ITEMS	Rev:	10/2/2	2015

Pro	ject:	SHE-	1-999(025) (PCN-20639)						
		Bido	der must type or neatly print unit prices in nu I. Do not carry unit prices further than three	merals, mak	e extensions f	or each iten	n, and		
Item	Spec			(0)		Unit Price		Amount	
No.	No.	No.	Description	Unit	Approx. Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
017	754	0592	RESET SIGN PANEL	EA	39.				
018	754	1100	CLASS AE CONCRETE-SIGN FOUNDATIONS	СҮ	38.900				
019	754	1104	REMOVE SIGN FOUNDATION	EA	97.				
						_			
			TOTAL SUM BID						

ESTIMATED QUANTITIES

STATE	PROJECT NO.	SECTION NO.	SHEET NO.	
ND	SHE-1-999(025)	8	1	

		TOTAL ESTIMATED Q	UANTITIES				
SPEC	CODE	ITEM	UNIT	Mandan	Bismarck	Mainline	QUANTITY
103	100	CONTRACT BOND	L SUM			1	1
251	200	SEEDING CLASS II	ACRE			0.38	0.38
253	201	HYDRAULIC MULCH	ACRE			0.38	0.38
702	100	MOBILIZATION	L SUM			1	1
704	100	FLAGGING	MHR			100	100
704	1000	TRAFFIC CONTROL SIGNS	UNIT			1832	1832
704	1060	DELINEATOR DRUMS	EA			80	80
704	1067	TUBULAR MARKERS	EA			76	76
704	1087	SEQUENCING ARROW PANEL – TYPE C	EA			2	2
754	112	FLAT SHEET FOR SIGNS TYPE IV REFL SHEETING	SF		97	602	699
754	110	FLAT SHEET FOR SIGNS TYPE XI REFL SHEETING	SF	308	50	5808	6166
754	206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	101	63	4384	4548
754	210	GALV STEEL POSTS-STANDARD PIPE	LF	92		2250	2342
754	214	GALV STEEL POSTS-W-SHAPE POSTS (TWO OR MORE)	LF			649	649
754	534	PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING	SF			1641	1641
754	541	OVERLAY PANEL-TYPE IV REFLECTIVE SHEETING	SF			294	294
754	592	RESET SIGN PANEL	EA		_	39	39
754	1100	CLASS AE CONCRETE-SIGN FOUNDATIONS	CY	0.4		38.5	38.9
754	1104	REMOVE SIGN FOUNDATION	EA	2		95.0	97.0

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																				STATE]	PROJECT NO.	SECTION NO.	SHEET NO.
																				N.D.		s	HE-1-999(025)	110	9
Sta/RP	Sign No.	Assembly No.	Flat Sh For Si IV SF		Sign Sur 1st LF	pport Ler 2nd LF	ngth 3rd LF	4th LF	Support Size	Max Post Len LF	Slee 1st LF	eve Length 2nd LF	3rd LF	4th LF	Sleeve Size	Anchor EA	Anch LF	nor Anchor - Size	Rese Sign Pane EA	Sign	rt Brea	k-Awa EA	y Comments		
I-94 Westbou	nd																								
157.358 Rt		10		7.5	10.2				2.25 x 2.25 12 ga	10.6						1	4	2.5 x 2.5 12 ga							
Sub Total			0.0	7.5		Total	10.2									Total	I 4		0	0		0			
Rest Area 119	9.5																								
3.0067 Rt		12		20.0	13.2	13.5			2.25 x 2.25 12 ga	14.0	4.3	4.6			2 x 2 12 ga	2	4					2			
3.0676 Rt	SN-11		18.0		14.3	14.5	14.8		2.5 x 2.5 12 ga	15.1						3	4	•				3			
3.1005 Rt	04.14	14		4.0	10.4				2 x 2 12 ga	13.0						1		2.25 x 2.25 12 ga				4			
3.1098 Rt 3.177 Rt	SA-N SN-O			10.0 0.0	11.7				2.5 x 2.5 10 ga	13.3						1	4	3 x 3 7 ga				1	Mount on Existing Supports		
Sub Total	SIN-U		18.0	34.0		Total	92.4									Total	I 28		0	0		6	would on Existing Supports		
Rest Area 118	8.5																								
1.2931 Rt	-	7		1.5																			Mount on Existing Supports		
1.2988 Rt		7		1.5																			Mount on Existing Supports		
1.3229 Rt		22		6.0																			Mount on Existing Supports		
3.1763 Rt		50		2.0																			Mount on Existing Supports		
Sub Total			0.0	11.0		Total	0.0									Total	I 0		0	0		0			
Exit I-194 Bis	marck																								
920.345 Lt mdn	SA-AB			21.0																			Mount on Existing Supports		
Sub Total			0.0	21.0		Total	0.0									Total	I 0		0	0		0			
Scenic View 1	151																								
151.737 Rt		9		5.0	13.5				2.25 x 2.25 12 ga	15.0						1	4	2.5 x 2.5 12 ga							
Sub Total			0.0	5.0		Total	13.5									Total	I 4		0	0		0			
												sis of Estim Support Le						This docu	ıment	was	Sign Su	mmary	,		
										using	support the follo	lengths have	e been c al cleara	nces:)")			originall and se Vance I Registratio PE-8 on 09/30/ original o	y issue aled b Hanso on Nur 3522, 15 and docume	ed y n, nber the ent	Perforat	ed Tuk	oe		
9/30/2015 2:35:03 Page 5 of 6	РМ																	is stored a Dakota D of Trans	it the N epartn	lorth ent					

N.D.	SHE-1-999(025)	110	10	-
STATE	PROJECT NO.	SECTION NO.	SHEET NO.	

Sta/RP	Sign No.	Assembly No.	Flat S For S IV SF		Sign Su 1st LF	pport Lei 2nd LF	ngth 3rd LF	4th LF	Support Size	Max Post Len LF	Slee 1st LF	eve Leng 2nd LF	th 3rd LF	4th LF	Sleeve Size	Anchor EA	Ancho LF	r Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Awa EA	ry Comments
Rest Area 10	68.5																					
1.4912 Lt		4		3.9	12.7				2 x 2 12 ga	13.6						1	4 2	.25 x 2.25 12 ga				
1.5833 Lt		15		6.3	10.4			2	2.25 x 2.25 12 ga	11.6						1	4	2.5 x 2.5 12 ga				
1.5917 Rt		15		6.3	12.4				2.5 x 2.5 12 ga	14.5						1	4	3 x 3 7 ga				
1.6845 Lt		9		5.0	13.4			2	2.25 x 2.25 12 ga	15.0						1	4	2.5 x 2.5 12 ga				
1.7288 Rt		12		20.0	16.6	17.1	17.6		2.5 x 2.5 10 ga	18.2						3	4	3 x 3 7 ga			3	
3.0988 Lt		9		5.0	10.3				2 x 2 12 ga	11.5						1	4 2	.25 x 2.25 12 ga				
3.1363 Lt		15		6.3	11.2			2	2.25 x 2.25 12 ga	11.6						1	4	2.5 x 2.5 12 ga				
3.2373 Lt		4			12.4				2 x 2 12 ga	13.6						1	4 2	.25 x 2.25 12 ga				
Sub Total			0.0	52.8		Total	134.1									Tota	I 40		0	0	3	
Exit 156-Mo	rton I-194																					
156-5 Rt	SA-I			16.0	13.9	14.4		2	2.25 x 2.25 12 ga	15.3	4.6	5.1			2 x 2 12 ga	2	4	3 x 3 7 ga			2	Mount on existing support
Sub Total			0.0	16.0		Total	28.3									Tota	I 8		0	0	2	
Grand Total			137.5 1	156.7		Total	1887.6									Tota	I 544		0	0	120	

The sign support lengths have been calculated using the following vertical clearances:

Urban/rural expressway and freeway - 84" (Offset - 60")

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Sign Summary Perforated Tube

I-94

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N.D.	SHE-1-999(025)	110	14
STATE	PROJECT NO.	SECTION NO.	SHEET NO.

Sta/RP	Sign/ Assembly No.			Pand For Sid IV SF		Ove Par IV SF			eel Post ard Pipe 2nd LF	Size	W-Sh 1st	Steel F ape Po 2nd LF	Max Post Len LF	Post Space FT	Revise Fuse Joint EA		l Pipe F Dep FT		W-Shape Pile LF	Remove Conc Fdn EA	Sign Fdns W-Shape Pile EA	Sign	Reset Sign Support EA	Stub Post	Dir Bas	
Exit 147-M	orton ND	25																								
1.1851 Lt	SA-Q	8	3.8					10.8		3.5			21.3													
1.228 Lt	SA-F	22						14.8		3.5			16.6			1.3	6.0	0.3		1						
1.2294 Rt	SA-E		9.3					13.4		3.5			16.1			1.3	6.0	0.3		1						
147.031 Rt	SN-15			52.3				13.0	13.0	4			13.9	4.8		1.3	7.5	0.8		2						
3.155 Lt	SA-Q	8	3.8					10.2		3.5			21.3													
3.1773 Rt	SA-D	7	'.2					13.0		3.5			25.5													
3.2109 Rt	SA-E	19	9.3					14.3		3.5			16.1			1.3	6.0	0.3								
3.2118 Lt	SA-F	22	2.0					14.4		3.5			16.6			1.3	6.0	0.3		1						
Sub Total		0.0 107	' .4	52.3	0.0	0.0	0.0	Tota	I 116.9		Tota	1 0.0						2.0	0	5	0	0	0	0	0	
Exit 153-M	orton ND	1806																								
1.2316 Lt	SA-Q	8	3.8					10.5		3.5			21.3													
153.874 Rt	SN-17			52.3				12.8	12.8	4			13.9	4.8		1.3	7.5	0.8		2						
3.2529 Lt	SA-Q	8	3.8					10.9		3.5			21.3													
3.2855 Rt	SA-E	19	9.3																			2				Reset Sign on Existing Supports
Sub Total		0.0 36	6.9	52.3	0.0	0.0	0.0	Tota	I 47.0		Tota	l 0.0						0.8	0	2	0	2	0	0	0	
Exit 155-M	orton I-94	4B																								
155.09 Rt	SA-T	16	6.0					17.2		4			17.3			1.3	7.5	0.4		1						
917.043-3 Rt	SA-S	20	0.0					14.4		5			23.2			1.8	6.5	0.6		1						
917.043-4 Rt	SA-T	16	6.0					18.3		5			27.7													
917.043-5 Rt	SA-U	12	2.5					11.6		3.5			15.0													
Sub Total		0.0 64	1.5	0.0	0.0	0.0	0.0	Tota	I 61.5		Tota	l 0.0						1.0	0	2	0	0	0	0	0	

The sign support lengths have been calculated using the following vertical clearances:

Urban/rural expressway and freeway - 84" (Offset - 60")

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Sign Summary Round Steel Pipe and W-Shape

I-94

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																				5	STATE		PROJECT NO.	SECTION NO.	SHE NC
																				<u></u>	N.D.		SHE-1-999(025)	110	15
ta/RP	Sign/ Assembly No.	Flat S For S IV SF		Par For S IV SF	el igns XI SF	Over Pan IV SF	lay lel XI SF	Galv Steel Standard F 1st 2n LF LI	ipe d	Galv Steel Post W-Shape Posts 1st 2nd 3rd LF LF LF	Max Post Len LF	Post Space FT	Revise Fuse Joint EA	Dia	Pipe Fd Dep FT	n Vol CY	W-Shape Pile LF	Remove : Conc Fdn EA	<u>Sign Fdns</u> W-Shape Pile EA	Sign	Reset Sign Suppor EA	Post	Base		
xit 156-M	orton I-1	94																							
55.026-1 Lt n			12.5																						
55.026-2 Rt	SA-J	11.7	40.0																						
56-1 Rt mdn 56-2 Rt	SA-T SA-T		16.0 16.0																						
56-3 Rt	SA-1		9.0																						
56-4 Rt mdn			16.0																				Mount on existing bar	rier mounted supr	oort
56-6 Rt	SA-V		9.0																				Ÿ		
56-7 Rt	SA-S		20.0					15.1	5		23.2			1.8	6.5	0.6		1							
ub Total		11.7	98.5	0.0	0.0	0.0	0.0	Total 15	.1	Total 0.0						0.6	0	1	0	0	0	0	0		
xit 157-Βι	ırleigh T	yler																							
.2113 Rt	SA-Q		8.8					9.2	3.5		21.3														
.327 Rt	SA-S		20.0																						
3339 Lt	SA-Q		8.8					10.7	3.5		21.3														
57.414 Rt	SN-18		0.0	52.3					3.0 4		13.9	4.8		1.3	7.5	8.0			2						
.1477 Lt .1477 Rt	SA-Q SA-Q		8.8					10.5 10.4	3.5		21.3 21.3														
.2693 Rt	SA-W		8.8					11.8	3.5		23.5														
3.2723 Lt	SA-F		22.0					12.5	3.5		16.6														
ub Total		0.0	85.2	52.3	0.0	0.0	0.0	Total 90	.9	Total 0.0						8.0	0	0	2	0	0	0	0		
xit 159-US	S-83																								
.1811 Lt	SA-F		22.0					11.2	3.5		16.6														
59.272 Rt	SN-19			52.3					3.2 4		13.9	4.8		1.3	7.5	8.0		2							
.2036 Lt	SA-F		22.0					11.2	3.5		16.6														
ub Total		0.0	44.0	52.3	0.0	0.0	0.0	Total 48	.8	Total 0.0						8.0	0	2	0	0	0	0	0		
											Basis of E Sign Suppo							or	s docum	issued		Sign Su Round	ummary Steel Pipe and W-Shape		
										The sign suppusing the	oort lengths following v	s have beer ertical clea	n calculated rances:	d				V Reg	and seal ance Ha istration	Numb	oer	I-94			
/1/2015 9:07:										Urban/rural expre	ssway and	freeway - 8	34" (Offset -	- 60")				on (ori is st	PE-85 09/30/15 ginal do ored at t cota Dep	22, and t cumer he No	he nt orth				

N.D.	SHE-1-999(025)	110	17
STATE	PROJECT NO.	SECTION NO.	SHEET NO.

Sta/RP	Sign/ Assembly No.	Flat Sheet For Signs IV XI SF SF	For S IV	nel Signs XI SF	Over Par IV SF		Galv Ste Standa 1st LF	eel Post rd Pipe 2nd LF	Size	W-Sh 1st	Steel Po ape Po 2nd LF	sts	Max Post Len LF	Post Space FT	Revise Fuse Joint EA	Dia	l Pipe F Dep FT	Vol	W-Shape Pile LF	Remove Conc Fdn EA	Sign Fdns W-Shape Pile EA	Sign	Reset Sign Support EA	Stub Post EA	Dir Base
Exit 182-1	ND-14/US-	33																							
1.2011 Lt	SA-Q	8.8					11.2		3.5				21.3												
1.3025 Lt	SA-F	22.0																							
1.3062 Rt	SA-E	6.0					14.2		3.5				16.1			1.3	6.0	0.3		1		1			
3.2542 Lt	SA-Q	8.8					11.0		3.5				21.3												
3.2949 Lt	SA-F	19.0					16.7		4				17.6			1.3	7.5	0.4		1		1			
3.2987 Rt	SA-E		19.3				13.1		3.5				16.1			1.3	6.0	0.3		1					
Sub Total		0.0 64.6	19.3	0.0	0.0	0.0	Total	l 66.2		Tota	al 0.0							1.0	0	3	0	2	0	0	0
Exit 190-4	105th St																								
1.2185 Lt	SA-Q	8.8					10.4		3.5				21.3												
1.262 Lt	SA-F	22.0					12.4		3.5				16.6												
1.2685 Rt	SA-E	19.3					12.7		3.5				16.1												
3.2613 Lt	SA-Q	8.8					10.6		3.5				21.3												
3.3091 Lt	SA-F	22.0					13.0		3.5				16.6												
3.3138 Rt	SA-E	19.3					13.1		3.5				16.1			1.3	6.0	0.3		1					
Sub Total		0.0 100.2	0.0	0.0	0.0	0.0	Total	l 72.2		Tota	al 0.0							0.3	0	1	0	0	0	0	0
Exit 195-2	20th Ave																								
1.1851 Lt	SA-Q	8.8					10.3		3.5				21.3												
1.2718 Lt	SA-F	22.0					12.3		3.5				16.6												
1.2784 Rt	SA-E	19.3					12.5		3.5				16.1												
3.2051 Lt	SA-Q	8.8					10.3		3.5				21.3												
3.2509 Lt	SA-F	22.0																							
3.2575 Rt	SA-E	19.3					13.1		3.5				16.1			1.3	6.0	0.3		1					
Sub Total		0.0 100.2	0.0	0.0	0.0	0.0	Total	I 58.4	_	Tota	al 0.0		_		_			0.3	0	1	0	0	0	0	0

The sign support lengths have been calculated using the following vertical clearances:

Urban/rural expressway and freeway - 84" (Offset - 60")

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Sign Summary Round Steel Pipe and W-Shape

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	SHE-1-999(025)	110	18

	Sign/ Assembly	Flat S For Si IV		Pand For Sign		Over Pan IV	-	Galv Ste Standa 1st			Galv St W-Shap		ts Po		Post Space	Revise Fuse Joint		Pipe F Dep		W-Shape Pile	Remove Conc Fdn	Sign Fdns W-Shape Pile	Sign		n P	ost	Multi Dir Base
Sta/RP	No.	SF	SF	SF	SF	SF	SF	LF	LF	Size	LF L	F L	LF L	.F	FT	EA	FT	FT	CY	LF	EA	EA	EA	EA	.		EA Comments
Exit 200-N	ND-3																										
1.2248 Lt	SA-Q		8.8					11.1		3.5			21	.3													
1.2679 Lt	SA-F		22.0					13.0		3.5			16	6.6													
1.2698 Rt	SA-E		13.3					12.6		3.5			16	5.1													
3.2609 Lt	SA-Q		8.8					10.6		3.5			21	.3													
3.3096 Lt	SA-F		22.0					13.0		3.5			16	6.6													
3.3115 Rt	SA-E		19.3					13.0		3.5			16	5.1			1.3	6.0	0.3		1						
Sub Total		0.0	94.2	0.0	0.0	0.0	0.0	Total	73.2		Total	0.0							0.3	0	1	0	0	0		0	0
Exit 205-3	30th Ave																										
1.2021 Lt	SA-Q		8.8					10.3		3.5			21	.3													
1.2493 Lt	SA-F		19.3					13.5		3.5			16	5.1			1.3	6.0	0.3		1						
1.2512 Rt	SA-E		22.0					13.5		3.5			16	6.6													
3.2016 Lt	SA-Q		8.8					10.1		3.5			21	.3			1.3	4.5	0.2								
3.2486 Lt	SA-F		22.0					12.7		3.5			16	6.6													
3.2505 Rt	SA-E		19.3					12.9		3.5			16	5.1			1.3	6.0	0.3		1						
Sub Total		0.0	100.2	0.0	0.0	0.0	0.0	Total	73.1		Total	0.0							0.8	0	2	0	0	0		0	0
Exit 208-N	ND-3/Lake	Ave																									
1.19 Lt	SA-Q		8.8					10.4		3.5			21	.3													
1.2406 Lt	SA-F		22.0					15.9		3.5			16	5.6			1.3	6.5	0.3		1						
1.2424 Rt	SA-E		19.3					12.7		3.5			16	5.1													
Sub Total		0.0	50.1	0.0	0.0	0.0	0.0	Total	38.9	_	Total	0.0				_			0.3	0	1	0	0	0		0	0

The sign support lengths have been calculated using the following vertical clearances:

Urban/rural expressway and freeway - 84" (Offset - 60")

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Sign Summary Round Steel Pipe and W-Shape

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N.D.	SHE-1-999(025)	110	19
STATE	PROJECT NO.	SECTION NO.	SHEET NO.

	Sign/ Assembly		gns	Par For S IV			erlay nel XI	Galv St Standa 1st	eel Post ard Pipe 2nd		W-S	v Steel F Shape Po 2nd	osts	Max Post Len	Post Space	Revise Fuse Joint	Std Dia	Pipe F Dep		W-Shape Pile	Remove Conc Fdn	Sign Fdns W-Shape Pile	Sign	Reset Sign Suppor	Post	Multi Dir Base
Sta/RP	No.	SF	XI SF	SF	SF	SF	SF	LF	LF	Size	LF	LF	LF	LF	FT	EA		FT	CY	LF	EA	EA	EA	EA	EA	
I-94 Eastbo	ound																									
102.435 Rt	SN-1			99.0						W5x16	15.1	16.5		17.2	8.5					28	2					
102.693 Rt	SA-T		16.0					16.8		4				17.3			1.3	7.0	0.4							
107.037 Rt	SN-3			116.8						W6x20	17.2	17.2		22.4	7.3					28		2				
108.037 Rt	SN-5			99.0						W6x20	16.6	17.8		21.7	8.5					28	2					
109.034 Rt	SA-S		20.0					14.7		5				23.2			1.8	6.5	0.6		1					
109.244 Rt	SN-6			181.3						W8x28	22.6	23.9		24.4	7.3					28	2					
110.002 Rt	SN-8			211.0					,	W10x39	23.7	24.7		33.5	7.3					28	2					
111.093 Rt	SA-S		20.0					14.6		5				23.2			1.8	6.5	0.6		1					
117.034 Rt	SN-9			62.3				12.4	12.4	5				15.0	3.3		1.8	8.0	1.4		2					
123.2 Rt	SA-S		20.0					13.9		4				14.4			1.3	7.5	0.4		1					
133.788 Rt	SN-12			236.3					,	W10x39	19.4	21.4		28.7	11.3					28		2				
145.355 Rt	SN-14			120.0						W6x20	15.9	17.3		18.0	10.0					28		2				
147.183 Rt	SA-S		20.0					14.7		5				23.2			1.8	6.5	0.6		1					
151.583 Rt	SA-S		20.0					13.4		3.5				13.5			1.3	6.5	0.3		1					
151.72 Rt	SN-16			63.8						W5x16	17.8	18.9		21.8	4.3					28	2					
152.843 Rt	SA-S		20.0					15.3		5				23.2			1.8	6.5	0.6		1					
155.026-3 Lt	SA-U		12.5					11.5		3.5				15.0												
157.865 Rt	SA-J	11.7						13.3		3.5				18.1			1.3	5.5	0.3		1					
157.97 Rt md	n SA-S		20.0					12.3		3.5				13.5												
160.103 Rt	SA-S		20.0					15.5		5				23.2			1.8	6.5	0.6		1					
160.103 Rt m	d SA-S		20.0					15.5		5				23.2			1.8	6.5	0.6		1					
160.792 Rt m	d SA-K		16.0					14.4		3.5				15.6			1.3	6.0	0.3							Pully Winch fold-down (D-754-85G)
162.103 Rt	SA-S		20.0					14.6		5				23.2			1.8	6.5	0.6		1					
171.023 Rt	SA-M		25.2					19.0		5				20.0			1.8	8.0	0.7		1					
171.212 Rt	SA-S		20.0					15.6		5				23.2			1.8	6.5	0.6		1					
177.191 Rt	SA-S		20.0					15.0		5				23.2			1.8	6.5	0.6		1					
183.156 Rt	SA-S		20.0					15.4		5				23.2			1.8	6.5	0.6		1					
190.11 Rt	SA-S		20.0					13.3		3.5				13.5												
201.229 Rt	SA-M		25.2					19.7		5				20.0			1.8	8.5	0.8		1					
201.429 Rt	SA-S		20.0																							
Sub Total		11.7	394.9	1189.5	0.0	0.0	0.0	Tota	323.0		То	tal 305.	9						10.4	224	27	6	0	0	0	0

The sign support lengths have been calculated using the following vertical clearances:

Urban/rural expressway and freeway - 84" (Offset - 60")

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Sign Summary Round Steel Pipe and W-Shape

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N.D.	SHE-1-999(025)	110	20	
STATE	PROJECT NO.	SECTION NO.	SHEET NO.	

Sta/RP	Sign/ Assembly No.	For S	Sheet Signs XI SF	Pane For Sig IV SF		Over Pan IV SF			eel Post ord Pipe 2nd LF	Size	W-Sha	2nd 3	ts	Max Post Len LF	Post Space FT	Revise Fuse Joint EA	Dia	Pipe F Dep FT		W-Shape Pile LF	Remove Conc Fdn EA	Sign Fdns W-Shape Pile EA	Sign	Res Siç Supp	gn F port		Multi Dir Base EA Commen	:s		
I-94 Westb	ound																													
102.051 Lt	SA-S		20.0					12.5		3.5				13.5																
103.138 Rt	SA-T		16.0					17.3		4				17.3			1.3	7.5	0.4											
107.673 Lt	SA-S		20.0					14.5		5				23.2			1.8	6.5	0.6		1									
109.699 Lt	SA-S		20.0					14.0		4				14.4																
122.641 Lt	SA-S		20.0					14.8		5				23.2			1.8	6.5	0.6		1									
152.949 Lt	SA-K		16.0					18.5		5				27.7			1.8	6.5	0.6		1						Standard	Drawing D-75	4-85G	
152.949 Lt md	SA-K		16.0					17.5		5				27.7			1.8	6.5	0.6		1						Standard	Drawing D-75	4-85G	
158.73 Lt	SA-S		20.0					13.1		3.5				13.5			1.3	6.5	0.3		1									
158.73 Lt mdn	n SA-S		20.0					14.8		5				23.2			1.8	6.5	0.6		1									
158.926 Lt	SA-J	11.7						12.5		3.5				15.8																
160.103 Lt	SA-S		20.0					14.2		4				14.4			1.3	7.5	0.4		1									
160.103 Lt md	SA-S		20.0					14.3		4				14.4			1.3	7.5	0.4		1									
160.202 Lt	SA-X		16.0																											
160.202 Lt md	SA-X		16.0																											
160.942 Lt	SA-M		25.2					18.4		5				20.0			1.8	8.0	0.7		1									
169.8328 Rt	SA-S		20.0					15.0		5				23.2			1.8	6.5	0.6		1									
175.801 Lt	SA-S		20.0					16.2		5				23.2			1.8	7.0	0.6		1									
181.8 Lt	SA-S		20.0					14.9		5				23.2			1.8	6.5	0.6		1									
189.424 Lt	SA-S		20.0					14.4		4				14.4			1.3	7.5	0.4		1									
189.613 Lt		11.7						12.8		3.5				18.1																
200.073 Lt	SA-S		20.0					15.4		5				23.2			1.8	6.5	0.6		1									
204.63 Lt	SA-M		25.2					18.7		5				20.0			1.8	8.0	0.7		1									
207.98 Lt	SA-S		20.0					15.5		5				23.2			1.8	6.5	0.6		1									
917.043 Rt	SA-V		9.0					9.4		3.5				20.7			1.3	4.5	0.2											
Sub Total		23.4	419.4	0.0	0.0	0.0	0.0	Tota	I 328.5		Total	0.0							9.4	0	16	0	0	(0	0	0			
Rest Area	168.5																													
3.0094 Rt	SA-S		20.0					15.8		5				23.7			1.8	6.5	0.6		1									
Sub Total		0.0	20.0	0.0	0.0	0.0	0.0	Tota	I 15.8		Total	0.0							0.6	0	1	0	0	(0	0	0			

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Urban/rural expressway and freeway - 84" (Offset - 60")

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Sign Summary Round Steel Pipe and W-Shape

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N.D.	SHE-1-999(025)	NO. 110	NO. 21
STATE	PROJECT NO.	SECTION NO	SHEET NO

Sta/RP	Sign/ Assembly No.		s I XI		s XI SF	Overla Pane IV SF			eel Post ird Pipe 2nd LF	Size		Steel Phape Po 2nd LF		Max Post Len LF	Post Space FT	Revise Fuse Joint EA		Pipe F Dep FT	dn Vol CY	W-Shape Pile LF	Remove Conc Fdn EA	Sign Fdns W-Shape Pile EA	Sign	Rese Sign Suppo	Pos	it l	Multi Dir Base EA Comments
				-	<u> </u>	<u> </u>	<u> </u>			0.20																	
Exit I-194 E	sismarck																										
0.701 Lt	SA-S	20	0.0																								
1.848 Lt	SN-24				1	126.0																					Mounted on Overhead Sign Structure
1.848 Rt	SN-25				1	168.0																					Mounted on Overhead Sign Structure
1.878 Rt	SN-3		1	9.5					,	W4x13	13.4	14.1		35.7	3.3					28	2						
1.903 Rt mdn	SA-Q	8	3.8																								
1.923 Lt	SA-Z	24	1.0					10.8		3.5				14.8			1.3	5.5	0.3								
1.928 Lt	SA-F	22	2.0																								
920.321 Rt	SA-X	16	6.0																								
920.346 Lt	SA-AA	25	5.0					10.7		3.5				15.6			1.3	5.5	0.3								
920.359 Lt mo	I SA-Q	8	3.8					9.2		3.5				21.3			1.3	4.5	0.2								
920.360 Lt	SA-Q	8	3.8					9.2		3.5				21.3			1.3	4.5	0.2								
920.468 Rt	SA-S	20	0.0																								
920.469 Lt	SA-S	20	0.0																								
Sub Total		0.0 173	3.4 1	9.5	0.0 2	294.0	0.0	Total	1 39.8		To	al 27.5							1.0	28	2	0	0	0	0		0
Grand Total		46.8 3045	5.1 153	39.3	0.0 2	294.0	0.0	Total	2340.3		To	al 333.	4						38.7	252	89	8	18	0	0		0

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Urban/rural expressway and freeway - 84" (Offset - 60")

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Sign Summary Round Steel Pipe and W-Shape

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.	
ND	SHE-1-999(025)	110	36	

HIGHWAY	Exit	REFERENCE POINT	LEFT RIGHT	DIR. FACING	SIGN NUMBER	SIGN DESCRIPTION	WIDTH	HEIGHT	NOTES	TYPE IV SF	TYPE XI SF
I-94		152.746	Rt	W	M3-2-36	EAST	36	18	Mount new sign on existing support	4.50	
I-94		152.746	Rt	W	M1-1-36	I-94	36	36	Mount new sign on existing support	7.20	
I-94		152.843	Rt mdn	W	R2-1-48	SPEED LIMIT 60	48	60	Mount new sign on existing support		20.00
I-94		152.843	Rt	W	R2-1-48	SPEED LIMIT 60	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94		152.949	Lt	E	W20-3-48	ROAD CLOSED 1/2 MILE STORM GATE	48	48	New sign, support, and foundation, pully fold-down, see Summary Sheet, Standard Drawing D-754-85G		16.00
I-94		152.949	Lt mdn	E	W20-3-48	ROAD CLOSED 1/2 MILE STORM GATE	48	48	New sign, support, and foundation, pully fold-down, see Summary Sheet, Standard Drawing D-754-85G		16.00
I-94		153.31	Rt	E	R2-1-48	SPEED LIMIT 60	48	60	Mount new sign on existing support		20.00
I-94		153.874	Rt	W	SN-17	EXIT 153 45 DEGREE ARROW	114	66	New sign, support, and foundation, see Summary Sheet	52.25	
I-94	Exit 153	1.2316	Lt	W	R5-1A-42	WRONG WAY	42	30	New sign and new support on existing foundation		8.75
I-94	Exit 153	3.2529	Lt	Е	R5-1A-42	WRONG WAY	42	30	New sign and new support on existing foundation		8.75
I-94	Exit 153	3.2855	Rt	W	R1-1-48	STOP SIGN	48	48	Mount new sign on existing support		13.25
I-94	Exit 153	3.2855	Rt	S	R6-1(L)-36	LEFT ONE WAY	36	12	Mount new sign on existing support		3.00
I-94	Exit 153	3.2855	Rt	N	R6-1(R)-36	RIGHT ONE WAY	36	12	Mount new sign on existing support		3.00
I-94		155.09	Rt	W	W4-6(L)-48	MERGING TRAFFIC	48	48	New sign, support, and foundation, see Summary Sheet		16.00
I-94	Exit 155	155.026-1	Lt mdn	E	M6-2-60	LARGE 45 DEGREE ARROW	60	30	Mount new sign on existing support	12.50	
I-94	Exit 155	155.026-3	Lt	S	W1-6-60	LARGE SINGLE ARROW	60	30	New sign and new support on existing foundation		12.50
I-94	Exit 155	155.026-2	Rt	W	M3-2-36	EAST	36	18	Mount new sign on existing support	4.50	
I-94	Exit 155	155.026-2	Rt	W	M1-1-36	I-94	36	36	Mount new sign on existing support	7.20	
I-94	Exit 156	156-2	Rt	E	W4-1R-48	MERGING TRAFFIC	48	48	Mount new sign on existing support		16.00
I-94	Exit 156	156-1	Rt mdn	W	W4-3L-48	MERGING TRAFFIC	48	48	Mount new sign on existing support		16.00
I-94	Exit 156	156-3	Rt	W	R8-3-24	NO PARKING	24	30	Mount new sign on existing support		5.00
I-94	Exit 156	156-4	Rt mdn	W	W5-2M-48	WATCH FOR ICE ON BRIDGE FLASHING LIGHT	48	48	Mount new fold down sign on existing support		16.00
I-94	Exit 156	156-5	Rt	W	W5-2M-48	WATCH FOR ICE ON BRIDGE FLASHING LIGHT	48	48	Mount new fold down sign on existing support		16.00
I-94	Exit 156	156-6	Rt	W	R8-3-24	NO PARKING	24	24	Mount new sign on existing support		4.00
I-94	Exit 156	156-7	Rt	W	R2-1-48	SPEED LIMIT 60	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94	Exit 157	1.327	Rt	W	W13-2-48	25 MPH	48	60	Mount new sign on existing support		20.00
I-94		157.358	Rt	N	R2-1-30	SPEED LIMIT 35	30	36	New sign and support, see Summary Sheet		7.50
I-94		157.414	Rt	W	SN-18	EXIT 157 45 DEGREE ARROW	114	66	New sign, support, and foundation, see Summary Sheet	52.25	
I-94		157.865	Rt	W	M3-2-36	EAST	36	18	New sign, support, and foundation, see Summary Sheet	4.50	
I-94		157.865	Rt	W	M1-1-36	I-94	36	36	New sign, support, and foundation, see Summary Sheet	7.20	
I-94		157.97	Rt mdn	W	R2-1-48	SPEED LIMIT 60	48	60	New sign and new support on existing foundation		20.00
I-94		157.972	Rt	W	R2-1-48	SPEED LIMIT 60	48	60	Mount new sign on existing support		20.00
I-94	Exit 157	3.1477	Lt	W	R5-1A-42	WRONG WAY	42	30	New sign and new support on existing foundation		8.75
I-94	Exit 157	3.1477	Rt	W	R5-1A-42	WRONG WAY	42	30	New sign and new support on existing foundation		8.75
	•	•	•	•			•	•	Subtotal This Sheet	152.10	335.25

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Sign Layout I-94

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SHE-1-999(025)	110	37

HIGHWAY	Exit	REFERENCE POINT	LEFT RIGHT	DIR. FACING	SIGN NUMBER	SIGN DESCRIPTION	WIDTH	HEIGHT	NOTES	TYPE IV SF	TYPE XI SF
I-94	Exit 157	3.2693	Rt	Е	R1-2-36	YIELD	36	36	New sign and new support on existing foundation		3.90
I-94	Exit 157	3.2723	Lt	Е	R6-1(L)-36	ONE WAY LEFT	36	12	New sign and new support on existing foundation		3.00
I-94	Exit 157	3.2723	Lt	S	R6-1(R)-36	ONE WAY RIGHT	36	12	New sign and new support on existing foundation		3.00
I-94	Exit 157	3.2723	Lt	Е	R5-1-48	DO NOT ENTER	48	48	New sign and new support on existing foundation		16.00
I-94	Exit 157	1.2113	Rt	W	R5-1A-42	WRONG WAY	42	30	New sign and new support on existing foundation		8.75
I-94		158.73	Lt mdn	Е	R2-1-48	SPEED LIMIT 60	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94		158.73	Lt	Е	R2-1-48	SPEED LIMIT 60	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94		158.926	Lt	Е	M3-4-36	WEST	36	18	New sign and new support on existing foundation	4.50	
I-94		158.926	Lt	Е	M1-1-36	I-94	36	36	New sign and new support on existing foundation	7.20	
I-94		159.272	Rt	W	SN-19	EXIT 159 45 DEGREE ARROW	114	66	New sign and new support on existing foundation	52.25	
I-94	Exit 159	1.1811	Lt	N	R6-1(L)-36	ONE WAY LEFT	36	12	New sign and new support on existing foundation		3.00
I-94	Exit 159	1.1811	Lt	S	R6-1(R)-36	ONE WAY RIGHT	36	12	New sign and new support on existing foundation		3.00
I-94	Exit 159	1.1811	Lt	Е	R5-1-48	DO NOT ENTER	48	48	New sign and new support on existing foundation		16.00
I-94	Exit 159	3.2036	Lt	N	R6-1(L)-36	ONE WAY LEFT	36	12	New sign and new support on existing foundation		3.00
I-94	Exit 159	3.2036	Lt	S	R6-1(R)-36	ONE WAY RIGHT	36	12	New sign and new support on existing foundation		3.00
I-94	Exit 159	3.2036	Lt	Е	R5-1-48	DO NOT ENTER	48	48	New sign and new support on existing foundation		16.00
I-94		160.103	Rt mdn	W	R2-1-48	SPEED LIMIT 75	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94		160.103	Rt	W	R2-1-48	SPEED LIMIT 75	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94		160.103	Lt	E	R2-1-48	SPEED LIMIT 60	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94		160.103	Lt mdn	Е	R2-1-48	SPEED LIMIT 60	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94		160.202	Lt	Е	W3-5-48	REDUCED SPEED AHEAD	48	48	Mount new sign on existing support		16.00
I-94		160.202	Lt mdn	Е	W3-5-48	REDUCED SPEED AHEAD	48	48	Mount new sign on existing support		16.00
I-94		160.792	Rt mdn	W	W20-3-48	ROAD CLOSED 1/2 MILE STORM GATE	48	48	New sign, support, pully winch fold-down, see Summary Sheet, Standard Drawing D-754-85G		16.00
I-94		160.942	Lt	Е	M3-4-36	WEST	36	18	New sign, support, and foundation, see Summary Sheet	4.50	
I-94		160.942	Lt	Е	M1-1-36	I-94	36	36	New sign, support, and foundation, see Summary Sheet	7.20	
I-94		160.942	Lt	Е	M3-1-36	NORTH	36	18	New sign, support, and foundation, see Summary Sheet	4.50	
I-94		160.942	Lt	Е	M1-4-36	US 83	36	36	New sign, support, and foundation, see Summary Sheet	9.00	
I-94		161.278	Rt	W	SN-20	EXIT 161 45 DEGREE ARROW	108	66	New sign, support, and foundation, see Summary Sheet	49.50	
I-94	Exit 161	161.439-9	Lt	N	R3-1(R)-48	NO RIGHT TURN	48	48	Mount new sign on existing support		16.00
I-94	Exit 161	161.439-11	Rt	S	R2-1-30	SPEED LIMIT 40	30	36	Mount new sign on existing light pole		7.50
I-94	Exit 161	161.439-10	Rt	S	M1-4-24	US 83	24	24	Mount new sign on existing support	4.00	
I-94	Exit 161	161.439-10	Rt	S	M3-2-24	EAST	24	12	Mount new sign on existing support	2.00	
I-94	Exit 161	161.439-10	Rt	S	M1-1-24	INTERSTATE 94	24	24	Mount new sign on existing support	3.20	
I-94	Exit 161	161.439-10	Rt	S	M3-3-24	SOUTH	24	12	Mount new sign on existing support	2.00	
I-94	Exit 161	161.439-10	Rt	S	M6-1-21	DIRECTIONAL ARROW	21	15	Mount new sign on existing support	2.19	
									Subtotal This Sheet	152.04	270.15

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Sign Layout I-94

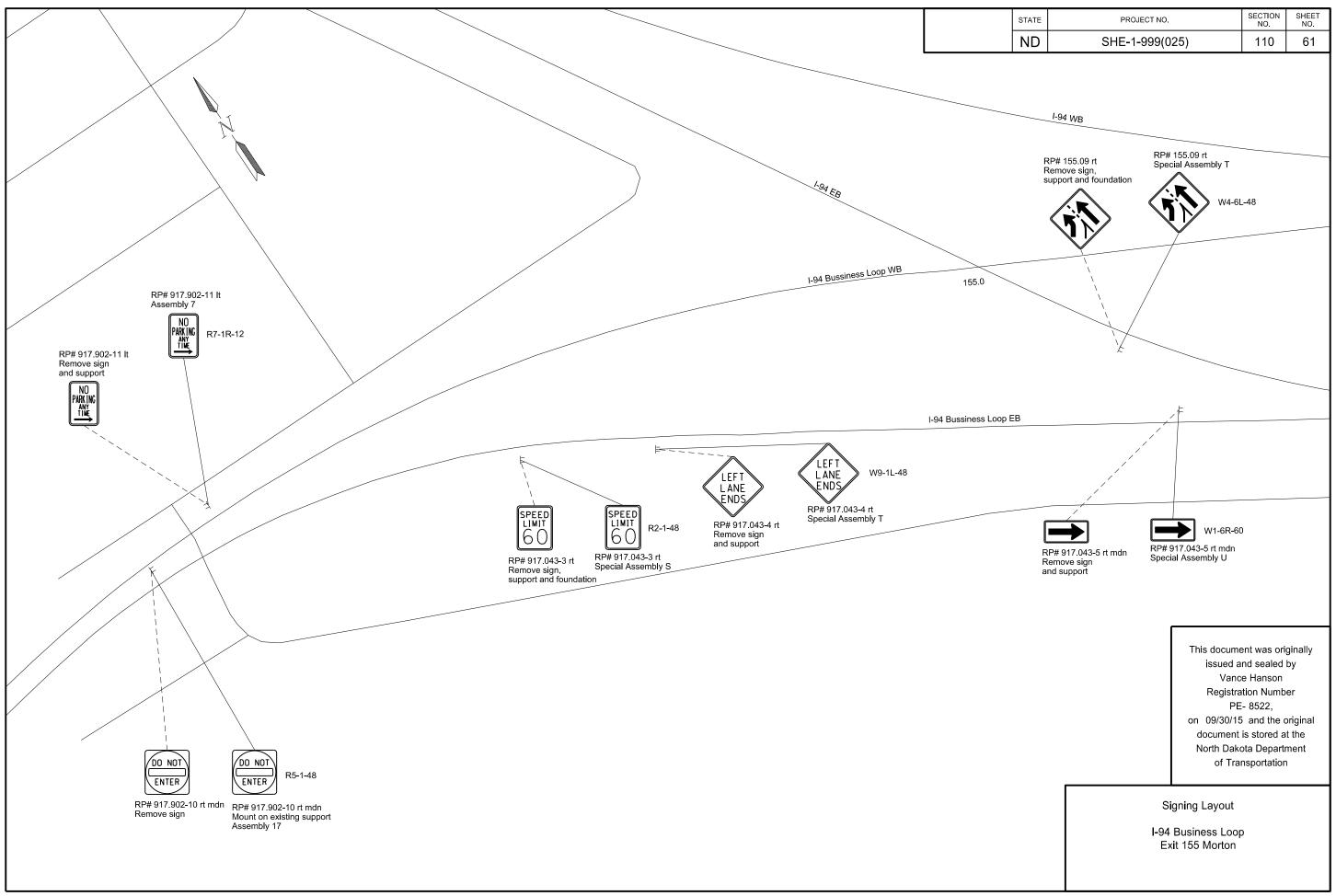
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SHE-1-999(025)	110	44

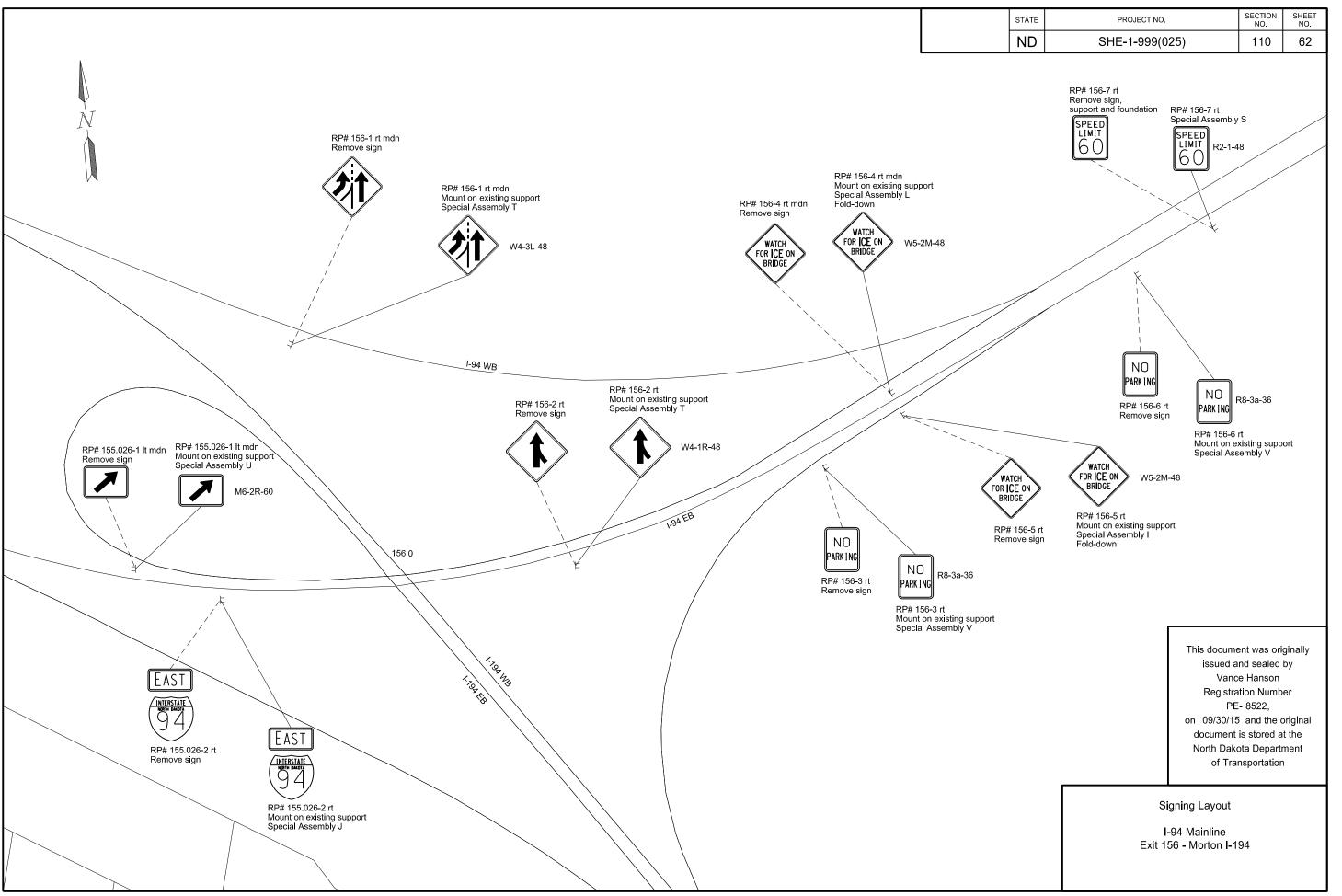
HIGHWAY	Exit	REFERENCE POINT	LEFT RIGHT	DIR. FACING	SIGN NUMBER	SIGN DESCRIPTION	WIDTH	HEIGHT	NOTES	TYPE IV SF	TYPE XI SF
1-94	Exit 205	3.2505	Rt	N	R6-1(R)-36	ONE WAY RIGHT	36	12	New sign, support, and foundation, see Summary Sheet		3.00
I-94	Exit 205	3.2505	Rt	N	R1-1-48	STOP SIGN	48	48	New sign, support, and foundation, see Summary Sheet		13.25
I-94	Exit 205	1.2512	Lt	N	R6-1(L)-36	ONE WAY LEFT	36	12	New sign, support, and foundation, see Summary Sheet		3.00
I-94	Exit 205	1.2512	Lt	S	R6-1(R)-36	ONE WAY RIGHT	36	12	New sign, support, and foundation, see Summary Sheet		3.00
1-94	Exit 205	1.2512	Lt	W	R1-1-48	STOP SIGN	48	48	New sign, support, and foundation, see Summary Sheet		13.25
I-94		207.98	Lt	E	R2-1-48	SPEED LIMIT 75	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94	Exit 208	1.19	Lt	E	R5-1A-42	WRONG WAY	42	30	New sign and new support on existing foundation		8.75
I-94	Exit 208	1.2406	Lt	N	R6-1(L)-36	ONE WAY LEFT	36	12	New sign, support, and foundation, see Summary Sheet		3.00
I-94	Exit 208	1.2406	Lt	S	R6-1(R)-36	ONE WAY RIGHT	36	12	New sign, support, and foundation, see Summary Sheet		3.00
I-94	Exit 208	1.2406	Lt	E	R5-1-48	DO NOT ENTER	48	48	New sign, support, and foundation, see Summary Sheet		16.00
I-94	Exit 208	1.2424	Rt	N	R6-1(L)-36	ONE WAY LEFT	36	12	New sign and new support on existing foundation		3.00
I-94	Exit 208	1.2424	Rt	S	R6-1(R)-36	ONE WAY RIGHT	36	12	New sign and new support on existing foundation		3.00
I-94	Exit 208	1.2424	Rt	Е	R1-1-48	STOP SIGN	48	48	New sign and new support on existing foundation		13.25
I-94B*	Business Loop	916.581	Lt	Е	R10-10L-30	LEFT TURN SIGNAL	30	36	Mount new sign on mast arm		7.50
I-94B*	Business Loop	916.581	Rt	W	R3-5(R)-30	ARROW TO THE RIGHT AND AN ONLY	30	36	Mount new sign on signal pole		7.50
I-94B*	Business Loop	916.581	Rt	W	R10-10L-30	LEFT TRUN SIGNAL	30	36	Mount new sign on mast arm		7.50
I-94B*	Business Loop	917.043	Lt	Е	R2-1-30	SPEED LIMT 30	30	36	Mount new sign on light pole		7.50
I-94B*	Business Loop	917.043-3	Rt	W	R2-1-48	SPEED LIMIT 60	48	60	New sign, support, and foundation, see Summary Sheet		20.00
I-94B*	Business Loop	917.043	Rt	Е	R3-7L-36	LEFT LANE MUST TURN	36	36	New sign, support, and foundation, see Summary Sheet		9.00
I-94B*	Business Loop	917.043-4	Rt	W	W9-1L-48	LEFT LANE ENDS	48	48	New sign and new support on existing foundation		16.00
I-94B*	Business Loop	917.043-5	Rt mdn	W	W1-6-60	LARGE SINGLE ARROW	60	30	New sign and new support on existing foundation		12.50
I-94B*	Memorial Hwy	917.902-10	Rt mdn	N	R5-1-48	DO NOT ENTER	48	48	Mount new sign on existing support		16.00
I-94B*	Memorial Hwy	917.902-7	Lt	Е	R1-2-48	YIELD	48	48	New sign and support, see Summary Sheet		6.93
I-94B*	Memorial Hwy	917.902-11	Lt	S	R7-1-12	NO PARKING ANYTIME	12	18	New sign and support, see Summary Sheet		1.50
I-94B*	Memorial Hwy	917.902-8	Rt	N	R7-1-12	NO PARKING HERE TO CORNER	12	18	Mount new sign on existing support		1.50
I-94B*	Memorial Hwy	917.902-1	Rt mdn	N	R4-7(R)-36	KEEP RIGHT	36	48	New sign and support, see Summary Sheet		12.00
I-94B*	Memorial Hwy	917.902-9	Rt	Е	R3-7L-36	LEFT LANE MUST TURN	36	36	New sign, support, and foundation, see Summary Sheet		9.00
I-94B*	Memorial Hwy	917.902-3	Lt	Е	W3-3-36	SIGNAL AHEAD	36	36	New sign and support, see Summary Sheet		9.00
I-94B*	Memorial Hwy	917.902-2	Rt mdn	Е	R4-7(R)-36	KEEP RIGHT	36	48	New sign and support, see Summary Sheet		12.00
I-94B*	Memorial Hwy	917.902-5	Rt mdn	W	R4-7(R)-36	KEEP RIGHT	36	48	New sign and support, see Summary Sheet		12.00
I-94B*	Memorial Hwy	917.902-4	Rt	N	R2-1-30	SPEED LIMIT 40	30	36	New sign and support, see Summary Sheet		7.50
I-94B*	Memorial Hwy	917.902-6	Lt	Е	R2-1-30	SPEED LIMIT 40	30	36	Mount new sign on existing support		7.50
I-194	Exit I-194	1.923	Lt	N	R1-2-48	YIELD SIGN	48	48	New sign, support, and foundation, see Summary Sheet		6.93
L		L	ı	1			ı	l .	Subtotal This Sheet	0	294.86

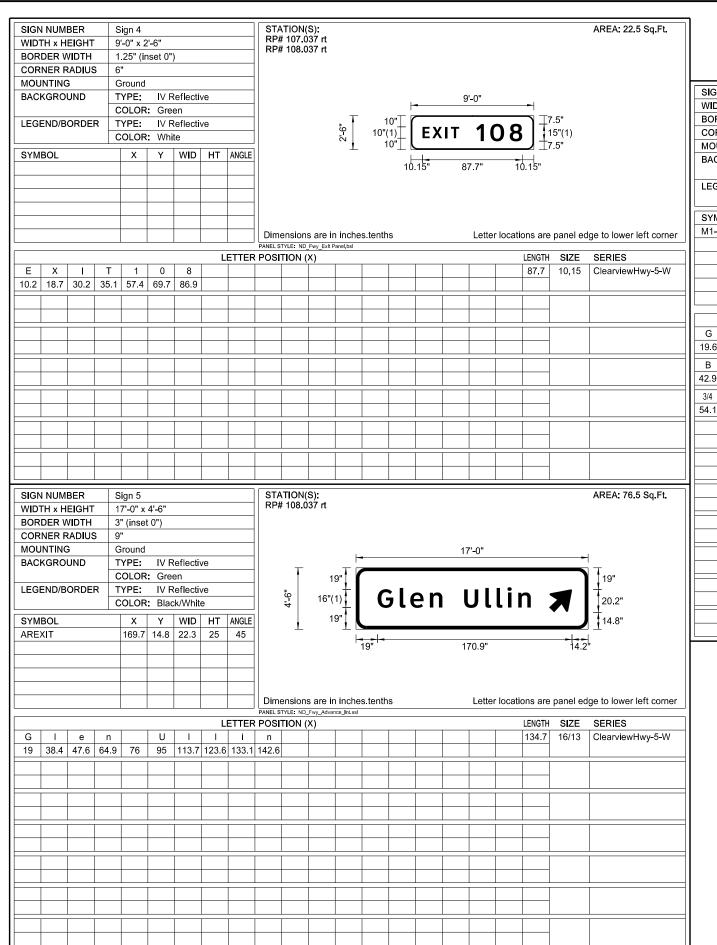
^{*} Secondary Regional System – Mandan

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Sign Layout I-94







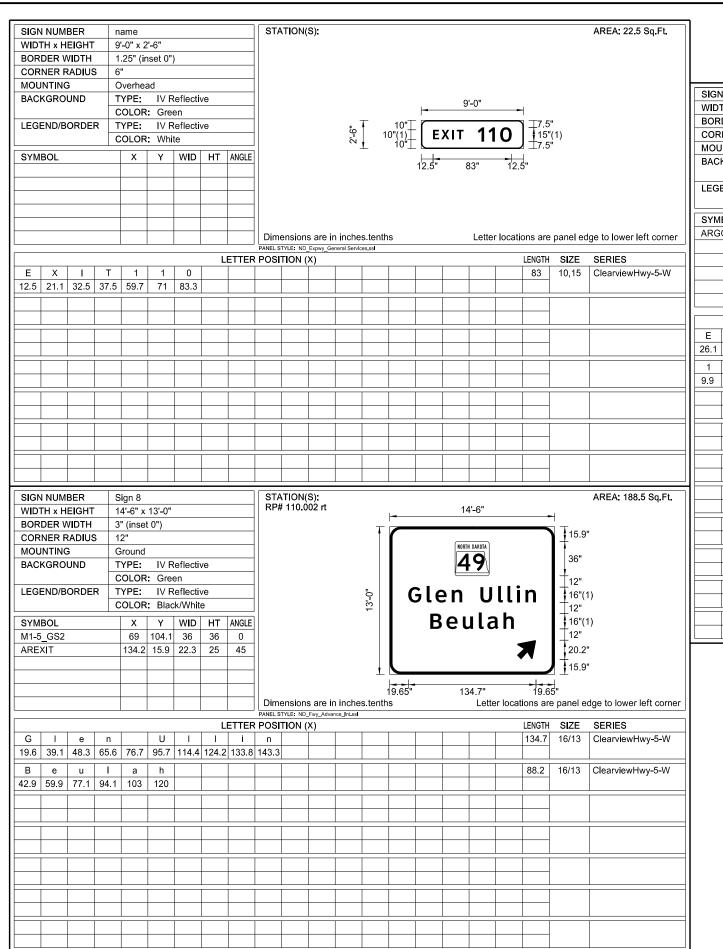
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SHE-1-999(025)	110	76

- 11																						
Ш	SIGN	NUM	BER	S	ign 6						MOITA						1	4'-6"				AREA: 181.3 Sq.Ft.
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	MOU	INTING	}	G	round												∥ ⁄	. 9 \			36	"
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7	В	е	u		а	h														88.2	16/13	ClearviewHwy-5-W
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Sign Details I-94

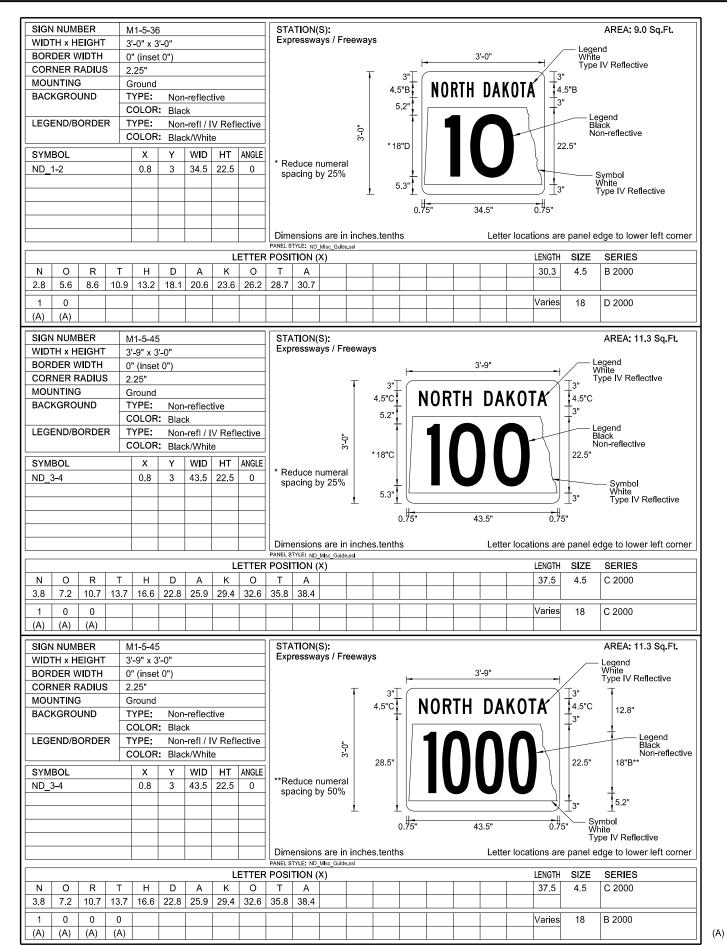


STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SHE-1-999(025)	110	77

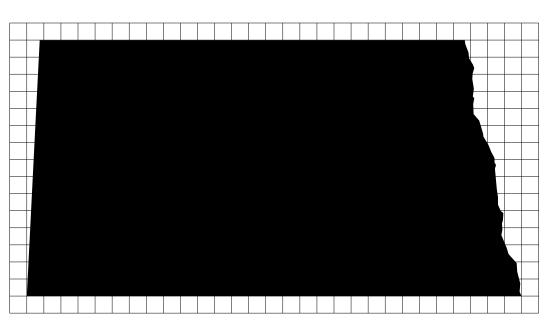
	SIGN	NUM I	BER	S	ign 9					STA	TION(S):										AREA: 29.3 Sq.Ft.
	WID.	TH x H	EIGHT		'-6" x 4					RP#	117.0	34 rt										
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	COR	NER F	RADIUS	3 9	"																	
	MOL	JNTINC	3	G	round												6	'-6"				
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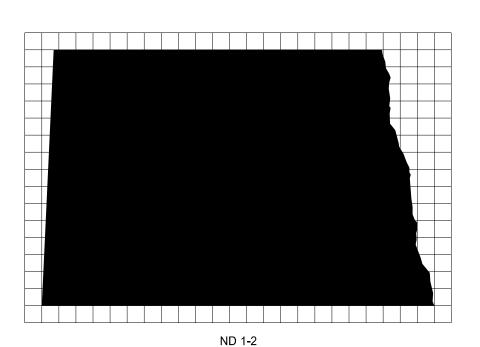
Sign Details I-94



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	1-999(025)	110	77a



ND 3-4



Note: Contact NDDOT Design Division for the North Dakota symbol.

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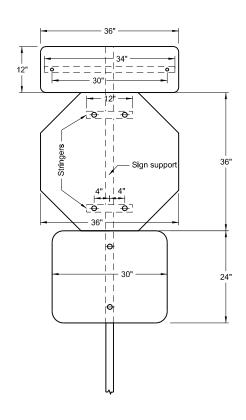
Sign Details

ND Route Markers

Expressways and Freeways

(A) Optically space numerals about vertical centerline.

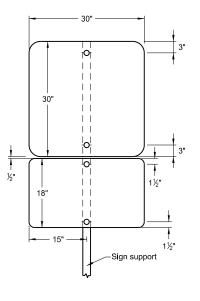
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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Special Assembly A

US 83 - RP 92.217 Rt US 83 - RP 93.475 Rt	US 83 - RP 110.647 Lt US 83 - RP 111.664 Lt
US 83 - RP 94.479 Rt	US 83 - RP 111.666 Rt
US 83 - RP 95.476 Rt	US 83 - RP 111.973 Rt
US 83 - RP 96.260 Rt	US 83 - RP 112.708 Lt
US 83 - RP 97.549 Rt	US 83 - RP 112.712 Rt
US 83 - RP 97.557 Rt	US 83 - RP 125.399 Lt
US 83 - RP 99.368 Rt	US 83 - RP 125.824 Lt
US 83 - RP 99.370 Rt	US 83 - RP 126.610 Rt
US 83 - RP 99.756 Rt	US 83 - RP 127.156 Lt
US 83 - RP 101.633 Rt	US 83 - RP 127.171 Rt
US 83 - RP 102.624 Lt	US 83 - RP 127.408 Lt
US 83 - RP 102.638 Rt	US 83 - RP 127.422 Rt
US 83 - RP 104.637 Rt	US 83 - RP 127.592 Lt
US 83 - RP 105.632 Lt	US 83 - RP 127.605 Rt
US 83 - RP 105.643 Rt	US 83 - RP 92.962 Lt
US 83 - RP 106.645 Rt	US 83 - RP 95.462 Lt
US 83 - RP 107.650 Rt	US 83 - RP 98.615 Lt
US 83 - RP 108.642 Lt	US 83 - RP 107.639 Lt
US 83 - RP 108.651 Rt	US 83 - RP 123.654 Lt

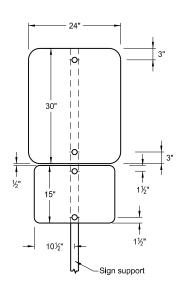
Design Area: 15.46 SF Pay Area: 18.46 SF



Special Assembly C

US 83 - RP 126.181 Rt

Design Area: 10.00 SF Pay Area: 10.00 SF



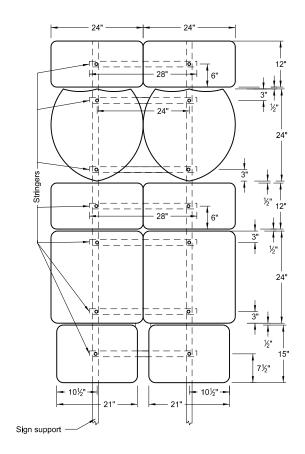
Special Assembly D

EXIT 147 - RP 3.1773 Rt (Steel) EXIT 147 - RP 147.183 Lt EXIT I-194 - RP 0.344 Lt

Design Area: 7.19 SF Pay Area: 7.19 SF

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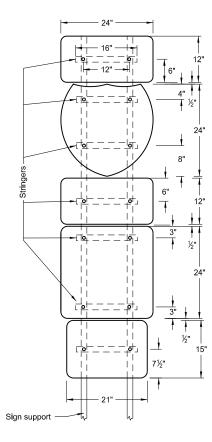
	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	SHE-1-999(025)	110	92



Special Assembly G

Exit 161 - RP 161.439-10 Rt Exit 161 - RP 161.439-4 Lt

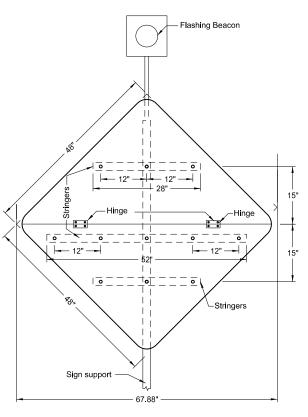
Design Area: 26.78 SF Pay Area: 26.78 SF



Special Assembly H

Exit 161 - RP 161.439-7 Lt Exit 161 - RP 161.439-8 Rt

Design Area: 13.39 SF Pay Area: 13.39 SF

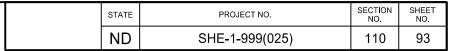


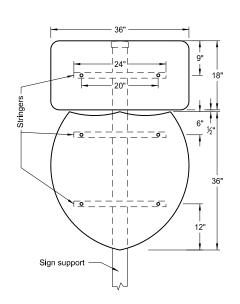
Special Assembly I

Exit 156 - RP 156-5 Rt

Design Area: 16.00 SF Pay Area: 16.00 SF

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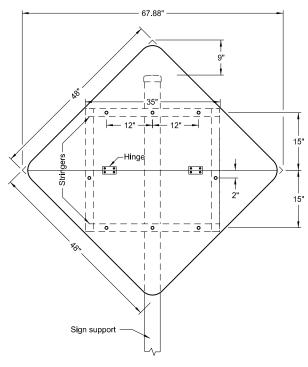




Special Assembly J

Exit 155 - RP 155.026-2 Rt RP 157 865 Rt RP 158.926 Lt RP 189.613 Lt RP 152.746 Rt RP 182.488 Rt RP 194.592 Lt RP 195.09 Rt RP 200.263 Lt

Design Area: 11.70 SF Pay Area: 11.70 SF

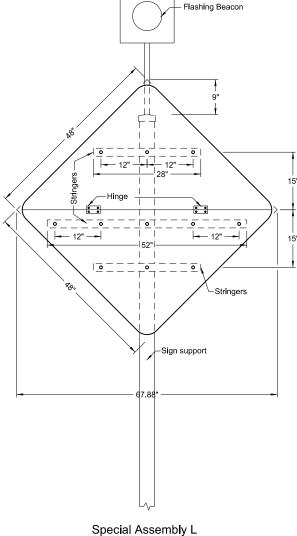


Special Assembly K

RP 152.949 Lt RP 152.949 Lt mdn RP 160.792 Rt mdn

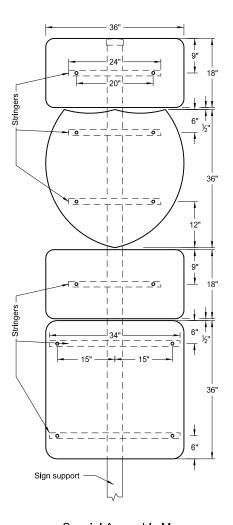
Design Area: 16.00 SF Pay Area: 16.00 SF

* SEE D-754-85 G FOR PULLEY WINCH DETAILS



Exit 156 - RP 156-4 Rt mdn

Design Area: 16.00 SF Pay Area: 16.00 SF



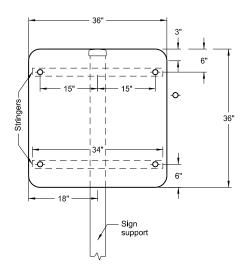
Special Assembly M

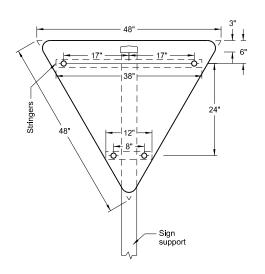
RP 171.023 Rt RP 201.229 Rt RP 160.942 Lt RP 204.63 Lt

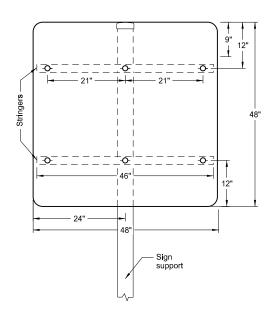
Design Area: 25.20 SF Pay Area: 25.20 SF

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Special Assembly V

Exit 156 - RP 156-3 Rt Exit 156 - RP 156-6 Rt Business Loop - RP 917.043 Rt

> Design Area = 9.00 SF Pay Area = 9.00 SF

Special Assembly W

Exit 157 - RP 3.2693 Rt Exit I-194 - RP 0.922 Rt

Design Area = 16.00 SF Pay Area = 16.00 SF Special Assembly X

Exit 102 - RP 1.4252 Rt RP 160.202 Lt RP 160.202 Lt mdn Memorial Hwy - RP 920.321 Rt

> Design Area = 16.00 SF Pay Area = 16.00 SF

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