

1-18-13 LETTING ITEM 001

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

FAI ROUTE 74 (I-74)  
D-5 OVD SIN STR REPL 2013-09  
CHAMPAIGN COUNTY  
Sheet 1 of 50  
Contract Number 46222

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

INDEX OF SHEETS

<u>NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	SUMMARY OF QUANTITIES
3 - 4	LOCATION MAP OF PROPOSED WORK
5 - 6	SCHEDULE OF QUANTITIES
7 - 11	SCHEDULES - INDIVIDUAL LOCATIONS
12 - 13	DETAIL - I-74 AUXILIARY / EXIT LANE CLOSURE
14 - 21	TRAFFIC CONTROL PLAN
22 - 30	SIGNING DETAILS
31 - 36	SIGN TRUSS MOUNTING DETAILS
37 - 47	OVERHEAD SIGN STRUCTURE SPAN DETAILS
48 - 50	BREAK-AWAY GROUND MOUNT SIGNAGE DETAILS

FAI ROUTE 74 (I-74)  
D-5 OVD SIN STR REPL 2013-09  
CHAMPAIGN COUNTY  
C-60-009-13

STANDARDS

- 701101-03
- 701106-02
- 701400-06
- 701401-07
- 701411-08
- 701901-03
- 720001-01
- 720006-03
- 720021-02

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Aug 22 20 12  
PASSED

Justin Mann, Jr.  
ENGINEER OF OPERATIONS

Dec 7 20 12  
acting John D. Baranzelli, PE  
ENGINEER OF DESIGN AND ENVIRONMENT

APPROVED Dec 7 20 12  
acting William R. Frey, Jr.  
DIRECTOR DIVISION OF HIGHWAYS

CONTRACT NO. 46222

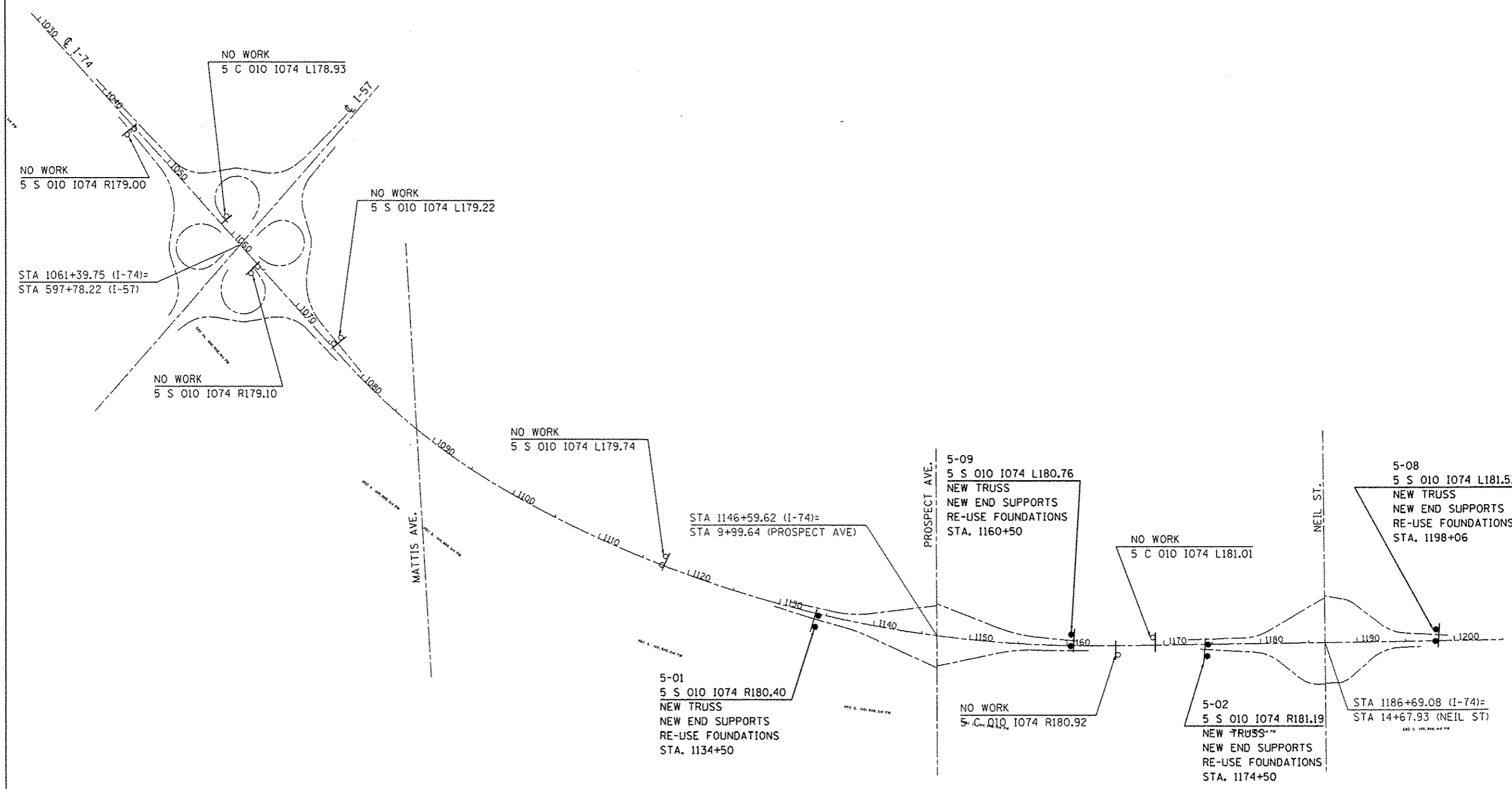
JOINT UTILITY LOCATING INFORMATION FOR  
EXCAVATIONS PHONE: 800-892-0123

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	RURAL 100% STATE 0040
63200310	GUARDRAIL REMOVAL	FOOT	229.00	229.00
67100100	MOBILIZATION	L SUM	1.00	1.00
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	10.00	10.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	14.00	14.00
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.00	1.00
72000300	SIGN PANEL - TYPE 3	SOFT	2380.25	2380.25
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	2161.50	2161.50
72400730	RELOCATE SIGN PANEL - TYPE 3	SOFT	107.25	107.25
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	5227.00	5227.00
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4' -0" X 4' -6")	FOOT	504.00	504.00
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	290.00	290.00
73400100	CONCRETE FOUNDATIONS	CUYD	10.90	10.90
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	6.00	6.00
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	3.00	3.00
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	3.00	3.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	26.00	26.00
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	24.00	24.00
X7350005	SIGN SUPPORT REPAIR	EACH	1.00	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	9.00	9.00
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.00	1.00

GENERAL DESCRIPTION OF FUND CODES:  
0040 = SPECIAL BRIDGE - OVERHEAD SIGN STRUCTURES

\* D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME * buklesjj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pvidot\buklesjj\d8388231\0546222-alt-500.dgn	PLOT SCALE * 40.0000' / in.	DRAWN -	REVISED -						74	*	Champaign	50	2
#MODELNAME*	PLOT DATE * 8/22/2012	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -									CONTRACT NO. 46222	



FILE NAME =	USER NAME = bucklesjj	DESIGNED =	REVISED =
c:\pwwork\pvidot\bucklesjj\d0308231\094222-shit-Location_Map.dgn		DRAWN =	REVISED =
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Default	PLOT DATE = 8/22/2012	DATE =	REVISED =

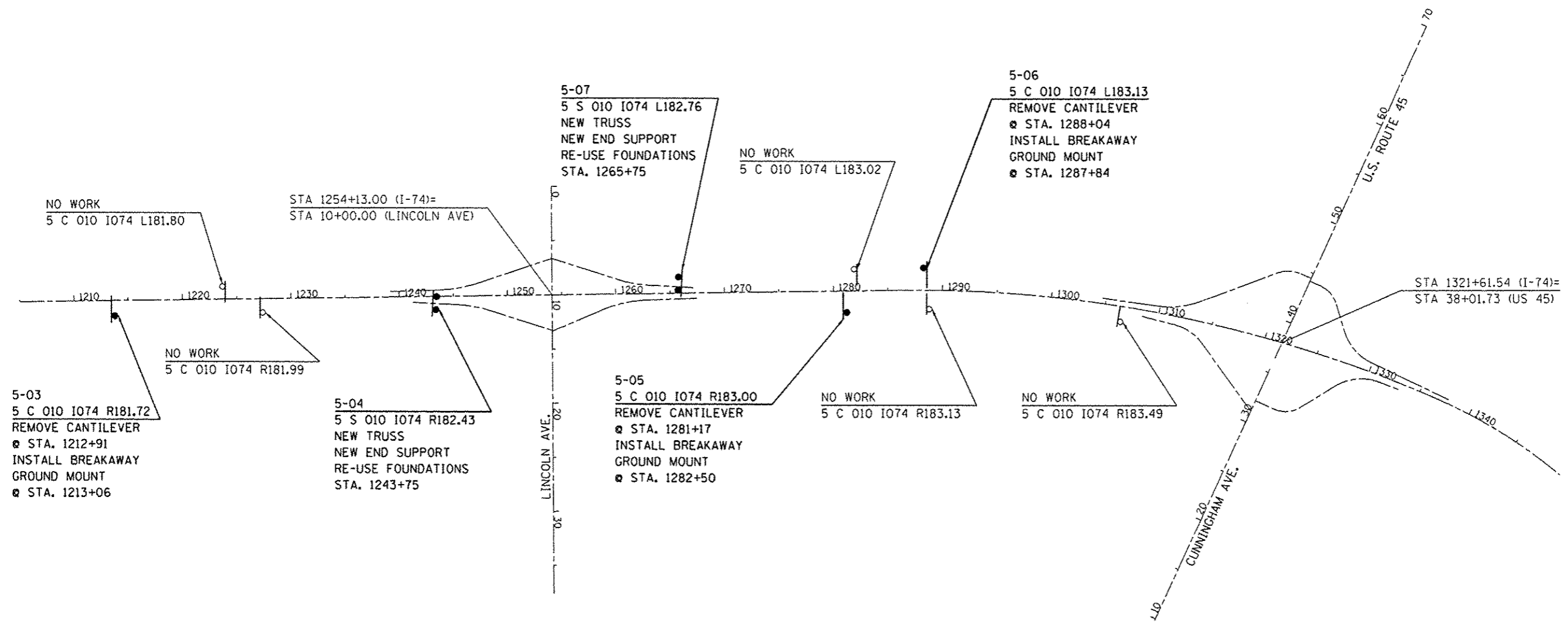
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**I-74 CHAMPAIGN COUNTY  
LOCATION MAP OF PROPOSED WORK**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	Champaign	50	3
CONTRACT NO. 46222				
ILLINOIS FED. AID PROJECT				

\* D-5 OVD SIN STR REPL 2013-09



FILE NAME *	USER NAME = bucklejj	DESIGNED -	REVISED -
c:\pwork\pedit\bucllejj\08308231\054	0222*shc:Location_Map.dgn	DRAWN -	REVISED -
Default	PLOT SCALE = 1000.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 07/22/2012	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**I-74 CHAMPAIGN COUNTY**  
**LOCATION MAP OF PROPOSED WORK**

SCALE:      SHEET      OF      SHEETS      STA.      TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	Champaign	50	4
CONTRACT NO. 46222				
ILLINOIS FED. AID PROJECT				

\* D-5 OVD SIN STR REPL 2013-09

**X8040310 - ELECTRIC SERVICE DISCONNECT**

LOCATION NO.	STRUCTURE NO.	UNIT	QUANTITY	DESCRIPTION
5-01	5 S 010 1074 R180.40	EACH	1.0	Re-using foundations. Truss lighting # 51/602 is wired in series with light poles # 51/111 & # 51/110. Use the new end support as a junction box to reconnect the electrical circuit and to maintain operation of the existing highway lighting.
5-02	5 S 010 1074 R181.19	EACH	1.0	Re-using foundations. Truss lighting # 52/601 is wired in series with light poles # 52/103 & # 52/102. There is a junction box in the center of the median foundation. Truss lighting # 52/601 is stubbed from the junction box. Use the junction box to reconnect the electrical circuit and to maintain operation of the existing highway lighting.
5-03	5 C 010 1074 R181.72	EACH	1.0	Truss lighting # 53/601 is end of run stubbed from nearby junction box attached to the SW abutment corner of 010-0021.
5-04	5 S 010 1074 R182.43	EACH	1.0	Re-using foundations. Truss lighting # 53/604 is end of run stubbed from nearby light pole # 53/127.
5-05	5 C 010 1074 R183.00	EACH	1.0	Truss lighting # 54/602 is end of run stubbed from sign truss # 54/603 - 700' to the east.
5-06	5 C 010 1074 L183.13	EACH	1.0	Truss lighting # 54/604 is end of run stubbed from sign truss # 54/605 - 620' to the west.
5-07	5 S 010 1074 L182.76	EACH	1.0	Re-using foundations. Truss lighting # 54/601 is end of run stubbed from nearby light pole # 54/107.
5-08	5 S 010 1074 L181.53	EACH	1.0	Re-using foundations. Truss lighting # 52/606 is end of run stubbed from nearby light pole # 52/128.
5-09	5 S 010 1074 L180.76	EACH	1.0	Re-using foundations. Truss lighting # 51/604 is wired in series with light poles # 51/121 & # 51/122. Use the new end support as a junction box to reconnect the electrical circuit and to maintain operation of the existing highway lighting.

See Special Provision - "ELECTRIC SERVICE DISCONNECT" for additional details.  
 The information provided in this chart and the electrical shown on the plans sheets is the best guess based on "As-Built" plans and by looking in each foundation for the number of unit ducts.  
 Contractor shall verify the existing path of the electrical circuit and adjust work as needed.

• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME *	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\backlog\108309231\0546222-Sht-Schedule.dgn	bucklesjj	DRAWN -	REVISED -						74	*	Champaign	50	5
MODEL NAME *	PLOT SCALE *	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 46222		
	PLOT DATE *	DATE -	REVISED -								ILLINOIS FED. AID PROJECT		

CODE NUMBER	PAY ITEM	UNIT	100% STATE TOTAL QUANTITY	5-01	5-02	5-03	5-04	5-05	5-06	5-07	5-08	5-09	
				5S010 I074 R180.40	5S010 I074 R181.19	5C010 I074 R181.72	5S010 I074 R182.43	5C010 I074 R183.00	5C010 I074 L183.13	5S010 I074 L182.76	5S010 I074 L181.53	5S010 I074 L180.76	
	General Location:			CHAMPAIGN - I-74 EB					CHAMPAIGN - I-74 WB				
	Scope of Work:			SS	SS	GM	SS	GM	GM	SS	SS	SS	
63200310	GUARDRAIL REMOVAL	FOOT	229.00	-	-	-	-	-	229.00	-	-	-	
67100100	MOBILIZATION	L SUM	1.00	0.13	0.13	0.07	0.13	0.07	0.08	0.13	0.13	0.13	
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	10.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	14.00	1.00	2.00	1.00	2.00	1.00	1.00	2.00	2.00	2.00	
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.00	0.11	0.11	0.11	0.12	0.11	0.11	0.11	0.11	0.11	
72000300	SIGN PANEL - TYPE 3	SOFT	2380.25	232.00	276.25	168.75	474.25	-	168.75	259.75	292.75	507.75	
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	2161.50	207.00	237.25	180.00	415.50	-	180.00	251.00	220.25	470.50	
72400730	RELOCATE SIGN PANEL - TYPE 3	SOFT	107.25	-	-	-	-	107.25	-	-	-	-	
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	5227.00	-	-	2071.00	-	1066.00	2090.00	-	-	-	
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4' -0" X 4' -6")	FOOT	504.00	84.00	77.00	-	91.00	-	-	85.00	84.00	83.00	
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	290.00	48.50	39.50	-	58.00	-	-	44.00	50.00	50.00	
73400100	CONCRETE FOUNDATIONS	CUYD	10.90	-	-	4.18	-	2.54	4.18	-	-	-	
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	6.00	1.00	1.00	-	1.00	-	-	1.00	1.00	1.00	
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	3.00	-	-	1.00	-	1.00	1.00	-	-	-	
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	3.00	-	-	1.00	-	1.00	1.00	-	-	-	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	26.00	**	**	**	**	**	**	**	**	**	
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	24.00	4.00	4.00	-	4.00	-	-	4.00	4.00	4.00	
X7350005	SIGN SUPPORT REPAIR	EACH	1.00	-	-	-	-	-	-	-	1.00	-	
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	9.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.00	0.11	0.11	0.11	0.12	0.11	0.11	0.11	0.11	0.11	

\*\* 7 days advance notice for I-74 EB simple span erection + 7 days I-74 WB + 3 days advance notice for I-74 EB ground mount drilled shaft foundations + 3 days I-74 WB + 3 days advance notice for I-74 EB cantilever removal and ground mount erection + 3 days I-74 WB = 26 CAL DA for CHANGEABLE MESSAGE SIGN

SS = Overhead Sign Structure Replacement w/ Simple Span - (Re-using Foundations)  
GM = Cantilever Sign Structure Replacement w/ Breakaway Ground Mount

\* 0-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME = buckleejj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pvidot\buclleejj\d0380231\054	222-Sht-Schedule.dgn	DRAWN -	REVISED -						74	*	Champaign	50	6	
#MODELNAME	PLOT SCALE = 1/8" = 1' in.	CHECKED -	REVISED -						CONTRACT NO. 46222				[ILLINOIS] FED. AID PROJECT	
	PLOT DATE = 8/22/2012	DATE -	REVISED -						SCALE:	SHEET	OF	SHEETS	STA.	TO

Location No.	5-01			
Structure No.	5 S 010 I074 R180.40			
County / Route	CHAMPAIGN CO. - I-74 EB - Just West of Prospect Ave.			
Scope of Work	This overhead sign structure is being replaced on existing foundations.			
CODE NUMBER	PAY ITEM	UNIT	QUANTITY	
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1.00	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00	
72000300	SIGN PANEL - TYPE 3	SOFT	232.00	
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	207.00	
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	84.00	
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	48.50	
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00	
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00	
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00	

Note: new end supports are included in the cost of the OVERHEAD SIGN STRUCTURE - SPAN per Section 733 of the Std. Specs.  
Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.

Location No.	5-02			
Structure No.	5 S 010 I074 R181.19			
County / Route	CHAMPAIGN CO. - I-74 EB - Just West of Nell St.			
Scope of Work	This overhead sign structure is being replaced on existing foundations.			
CODE NUMBER	PAY ITEM	UNIT	QUANTITY	
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1.00	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00	
72000300	SIGN PANEL - TYPE 3	SOFT	276.25	
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	237.25	
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	77.00	
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	39.50	
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00	
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00	
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00	

Note: new end supports are included in the cost of the OVERHEAD SIGN STRUCTURE - SPAN per Section 733 of the Std. Specs.  
Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.

• D-5 OVD SIGN STR REPL 2013-09

FILE NAME *	USER NAME * buckleejj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES INDIVIDUAL TRUSS LOCATIONS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\dot\buckleejj\d0388231\054	222-Sht-Schedule.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	74	Champaign	50	7
#MODELNAME*	PLOT SCALE * 40.0000 ' / in.	CHECKED -	REVISED -								CONTRACT NO. 46222			
	PLOT DATE * 8/22/2012	DATE -	REVISED -								[ILLINOIS] FED. AID PROJECT			

Location No.	5-03		
Structure No.	5 C 010 1074 R181.72		
County / Route	CHAMPAIGN CO. - I-74 EB - between Neil St. and Lincoln Ave.		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
72000300	SIGN PANEL - TYPE 3	SOFT	168.75
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	180.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	2071.00
73400100	CONCRETE FOUNDATIONS	CUYD	4.18
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Pay Item for CMS is for the advanced Interstate notice only. CMS shown on Standards are included in the cost of the Standard.

Location No.	5-04		
Structure No.	5 S 010 1074 R182.43		
County / Route	CHAMPAIGN CO. - I-74 EB - just West of Lincoln Ave.		
Scope of Work	This overhead sign structure is being replaced on existing foundations.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SOFT	474.25
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	415.50
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4' -0" X 4' -6")	FOOT	91.00
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	58.00
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Note: new end supports are included in the cost of the OVERHEAD SIGN STRUCTURE - SPAN per Section 733 of the Std. Specs.  
Pay Item for CMS is for the advanced Interstate notice only. CMS shown on Standards are included in the cost of the Standard.

• 0-5 OVD SIGN STR REPL 2013-09

FILE NAME *	USER NAME * buchiesjj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES INDIVIDUAL TRUSS LOCATIONS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pvidat\buchiesjj\0308231\05	222-Sht-Schedule.dgn	DRAWN -	REVISED -					74		Champaign	50	8
#MODELNAME*	PLOT SCALE * 10.0000 * / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 46222	
	PLOT DATE * 8/22/2012	DATE -	REVISED -								[ILLINOIS] FED. AID PROJECT	



Location No.	5-05		
Structure No.	5 C 010 I074 R183.00		
County / Route	CHAMPAIGN CO. - I-74 EB - between Lincoln Ave. and US Route 45.		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
72400730	RELOCATE SIGN PANEL - TYPE 3	SOFT	107.25
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1066.00
73400100	CONCRETE FOUNDATIONS	CUYD	2.54
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Existing sign is to be reused and reinstalled as a breakaway ground mount.  
Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.

Location No.	5-06		
Structure No.	5 C 010 I074 L183.13		
County / Route	CHAMPAIGN CO. - I-74 WB - between US Route 45 and Lincoln Ave.		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
63200310	GUARDRAIL REMOVAL	FOOT	229.00
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
72000300	SIGN PANEL - TYPE 3	SOFT	168.75
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	180.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	2090.00
73400100	CONCRETE FOUNDATIONS	CUYD	4.18
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.

\* 0-5 OVD SIGN STR REPL 2013-09

FILE NAME *	USER NAME = bucklesjj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES INDIVIDUAL TRUSS LOCATIONS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pe_work\pedit\bucksjj\0308231\054	222-Sht-Schedule.dgn	DRAWN -	REVISED -		74		Champaign	50	9				
#MODELNAME#	PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 46222	
	PLOT DATE = 8/22/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

Location No.	5-07		
Structure No.	5 S 010 I074 L182.76		
County / Route	CHAMPAIGN CO. - I-74 WB - just East of Lincoln Ave.		
Scope of Work	This overhead sign structure is being replaced on existing foundations.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SOFT	259.75
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	251.00
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	85.00
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	44.00
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Note: new end supports are included in the cost of the OVERHEAD SIGN STRUCTURE - SPAN per Section 733 of the Std. Specs.  
Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.

Location No.	5-08		
Structure No.	5 S 010 I074 L181.53		
County / Route	CHAMPAIGN CO. - I-74 WB - just East of Neil St.		
Scope of Work	This overhead sign structure is being replaced on existing foundations.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SOFT	292.75
72400330	REMOVE SIGN PANEL - TYPE 3	SOFT	220.25
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	84.00
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	50.00
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00
X7350005	SIGN SUPPORT REPAIR	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Note: new end supports are included in the cost of the OVERHEAD SIGN STRUCTURE - SPAN per Section 733 of the Std. Specs.  
Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.  
An additional set-up of 701401 to close the WBPL will be paid for to address the pay item SIGN SUPPORT REPAIR. See Spec. Prov.

• D-5 OVD SIGN STR REPL 2013-09

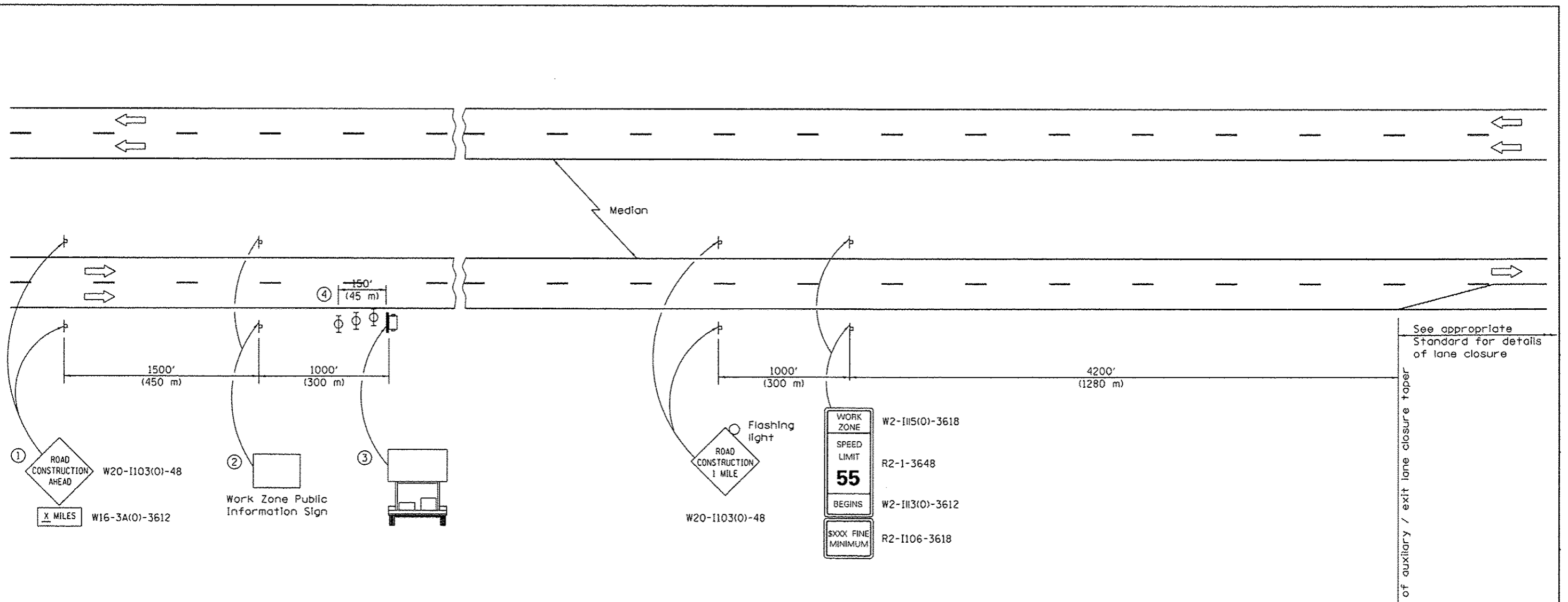
FILE NAME *	USER NAME * bucklesjj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES INDIVIDUAL TRUSS LOCATIONS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\dot\bucklesjj\d0308231\054222-Sht-Schedule.dgn		DRAWN -	REVISED -		74		Champaign	50	10				
PLOT SCALE * 10.0000 ' / in.		CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 46222				
#MODELNAME*		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

Location No.	5-09		
Structure No.	5 S 010 I074 L180.76		
County / Route	CHAMPAIGN CO. - I-74 WB - just East of Prospect Ave.		
Scope of Work	This overhead sign structure is being replaced on existing foundations.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SQFT	507.75
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	470.50
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4' -0" X 4' -6")	FOOT	83.00
73301810	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	50.00
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00
X7330070	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Note: new end supports are included in the cost of the OVERHEAD SIGN STRUCTURE - SPAN per Section 733 of the Std. Specs.  
Pay Item for CMS is for the advanced interstate notice only. CMS shown on Standards are included in the cost of the Standard.

\* 0-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME * buakiesjj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES INDIVIDUAL TRUSS LOCATIONS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pr_vork\p\dot\buakiesjj\08306231\054222-Sht-Schedule.dgn	DRAWN -	REVISED -			74	*	Champaign	50	11				
PLOT SCALE * 40.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 46222				[ILLINOIS] FED. AID PROJECT				
#MODELNAME*	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			



**SYMBOLS**

- Portable changeable message sign
- Sign
- Type II barricade, drum, or vertical barricade with monodirectional flashing light

- ① The Road Construction Ahead sign shall be located 3 to 5 miles in advance of the project limits.
- ② The message and size of the Work Zone Public Information Sign shall be as specified by the Department.
- ③ The message board shall be used to display status of lanes within the project. The primary message shall be:  
  
Rt. Exit Lane Closed / Merging Traffic Ahead
- ④ Three, Type II barricades, drums, or vertical barricades at 50' (15 m) centers.

**GENERAL NOTES**

This detail is used where, at any time any vehicle, equipment, workers or their activities require a closure of only the auxiliary / exit lane between the Prospect, Neil, Lincoln, and Cunningham interchanges on I-74 in Champaign.

This detail must always be used in combination with detail "I-74 Auxiliary / Exit Lane Closures - Champaign - Modified 701411 & 701401"

The first two signs and the message board are stationary.

The last two signs shall be moved as necessary to maintain the required distance from the start of the auxiliary / exit lane closure taper.

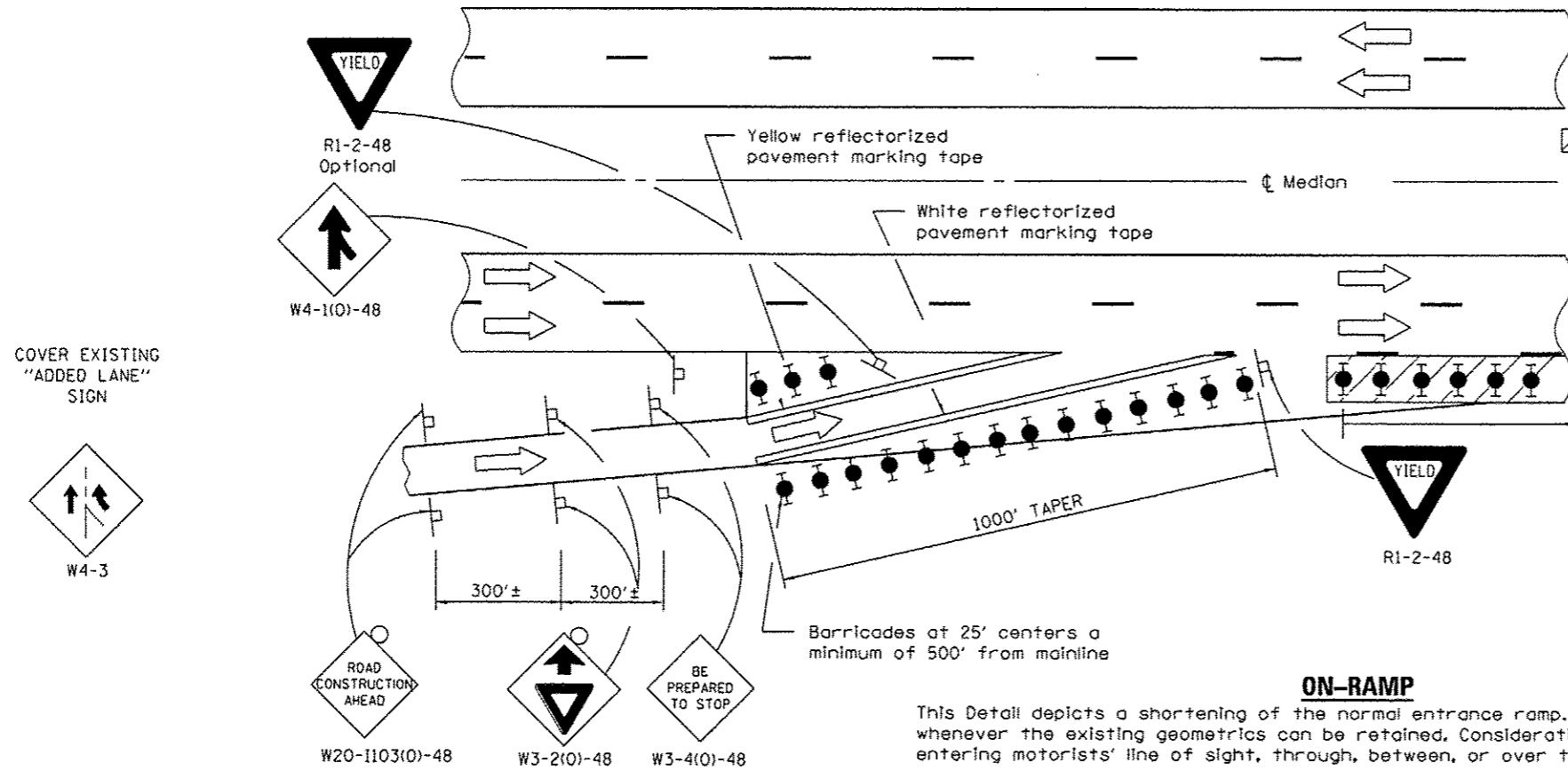
To avoid signage conflict, the existing yellow post mounted W4-3-48 "Added Lane" sign in the gore area must be covered.

All dimensions are in inches (millimeters) unless otherwise shown.

Start of auxiliary / exit lane closure taper

See appropriate Standard for details of lane closure

FILE NAME =	USER NAME = bucklesjj	DESIGNED =	REVISED =	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-74 AUXILIARY /EXIT LANE CLOSURES - CHAMPAIGN SHEET 1 OF 2 - MODIFIED 701400</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\privat\bucklesjj\d0308231\054222-shr-TS.dgn	PLT SCALE = 40:0.0000 '1" / in.	DRAWN =	REVISED =			74		CHAMPAIGN	50	12	
#MODELNAME#	PLT DATE = 8/22/2012	CHECKED =	REVISED =			CONTRACT NO. 46222					
		DATE =	REVISED =			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.



**SYMBOLS**

- Work area - Auxiliary/Exit Lane
- Sign
- Type II barricades or drums with steady burning monodirectional light
- Drums with steady burning monodirectional light

Type II barricades, drums, or vertical barricades at 100' centers ( 50' centers within 200' of ramp opening ) for entire length of auxiliary / exit lane.

**GENERAL NOTES**

This detail is used where, at any time any vehicle, equipment, workers or their activities require a closure of only the auxiliary / exit lane between the Prospect, Neil, Lincoln, and Cunningham interchanges on I-74 in Champaign.

This detail must always be used in combination with detail "I-74 Auxiliary / Exit Lane Closures - Champaign - Modified 701400"

To avoid signage conflict, the existing yellow post mounted W4-3-48 "Added Lane" sign in the gore area must be covered.

When work does not exceed 3 days, pavement marking tape may be omitted.

A check barricade shall be placed in the middle of the closed auxiliary / exit lane and at the shoulder at 1000' (300 m) centers.

Traffic control devices delineating the exit ramp may be omitted if the work zone ends 500' (150 m) before the ramp opening.

All dimensions are in inches (millimeters) unless otherwise shown.

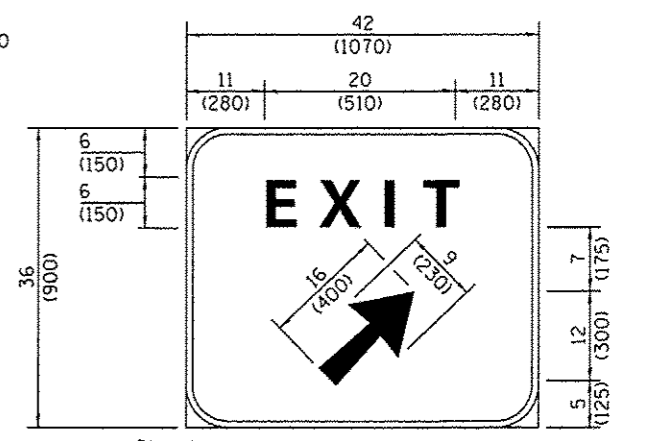
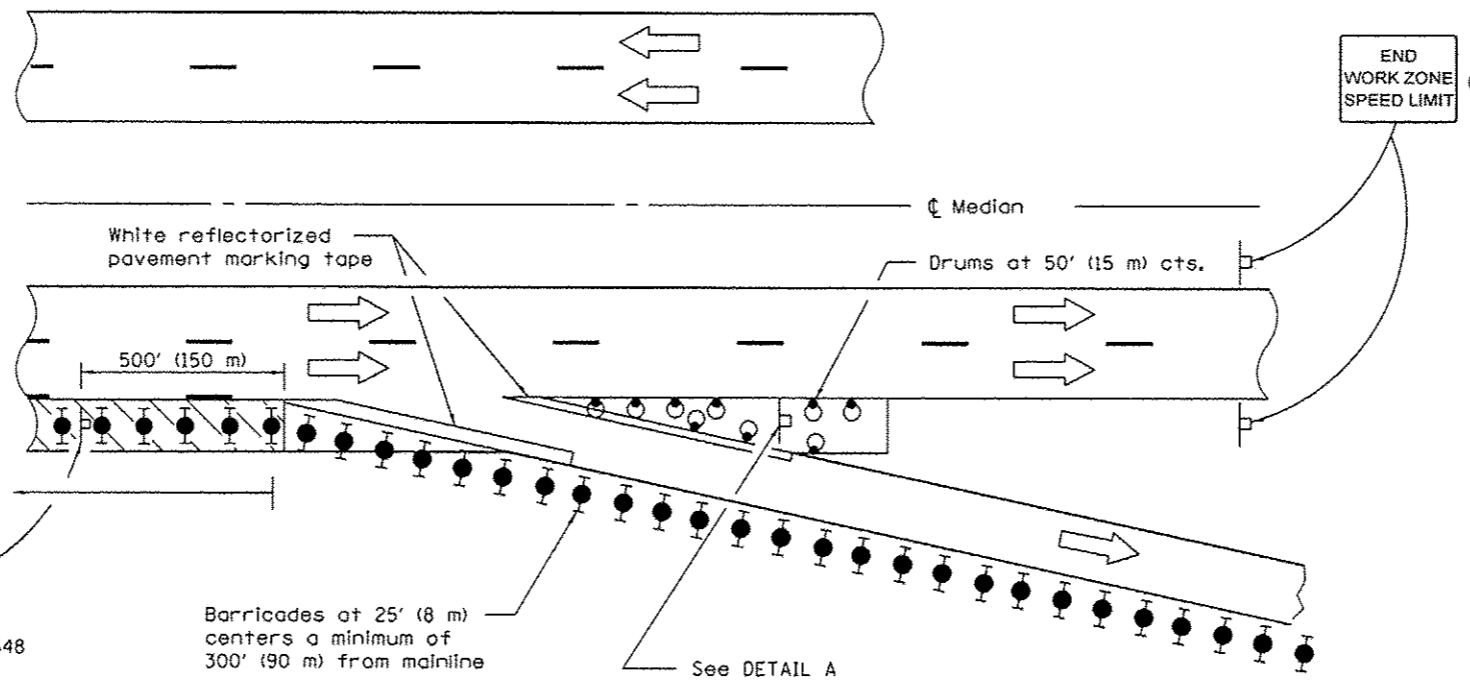
**ON-RAMP**

This Detail depicts a shortening of the normal entrance ramp. This method shall be used whenever the existing geometrics can be retained. Consideration should be given to the entering motorists' line of sight, through, between, or over the delineation devices.

**SYMBOLS**

- Work area - Auxiliary/Exit Lane
- Sign
- Type II barricades or drums with steady burning monodirectional light
- Drums with steady burning monodirectional light

Type II barricades, drums, or vertical barricades at 100' centers ( 50' centers within 200' of ramp opening ) for entire length of auxiliary / exit lane.



Background - Green  
 Border and legend - White  
 "D" size letters  
 EXIT SIGN - SPECIAL

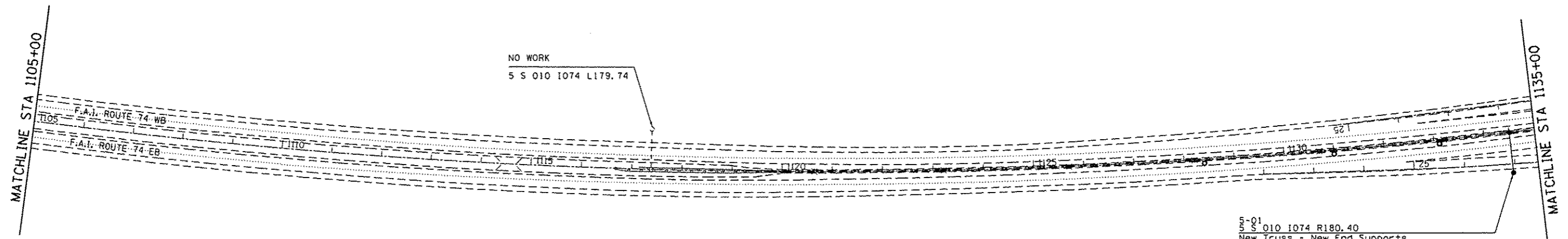
**DETAIL A**

(To be utilized where distance between the two rows of channelizing devices is 6' (1.8 m) in width.)

**OFF RAMP**

This Detail depicts an extension of the normal exit ramp. This method shall be used whenever existing geometrics can be retained. Consideration should be given to the exiting motorists' line of sight through, between or over the delineation devices.

FILE NAME =	USER NAME = bucklesj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-74 AUXILIARY /EXIT LANE CLOSURES - CHAMPAIGN SHEET 2 OF 2 - MODIFIED 701411 + 701401</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pr-work\p1dot\bucklesj\0808231\056222-shr-TS.dgn	PLOT SCALE = 40x0.0000 1" / in.	DRAWN -	REVISED -			74	.	CHAMPAIGN	50	13	
#MODELNAME#	PLOT DATE = 8/22/2012	CHECKED -	REVISED -			CONTRACT NO. 46222					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



NO WORK  
5 S 010 1074 L179, 74

5-01  
5 S 010 1074 R180.40  
New Truss - New End Supports  
Re-Use Foundations  
Sta. 1134+50  
TRAFFIC CONTROL  
- Driving Lane & Auxiliary / Exit Lane Closure  
Standards - 701400, 701401, 701411  
Payment - 701401 = 1.0 Each  
701411 = 1.0 Each  
Start of taper for 701401  
Taper - Sta. 1117+00 to 1127+00  
Tangent - Sta. 1127+00 to 1141+00  
One set-up 701411 - I-74 EB off-ramp to Prospect Ave.

• 0-5 OVD SIN STR REPL 2013-09

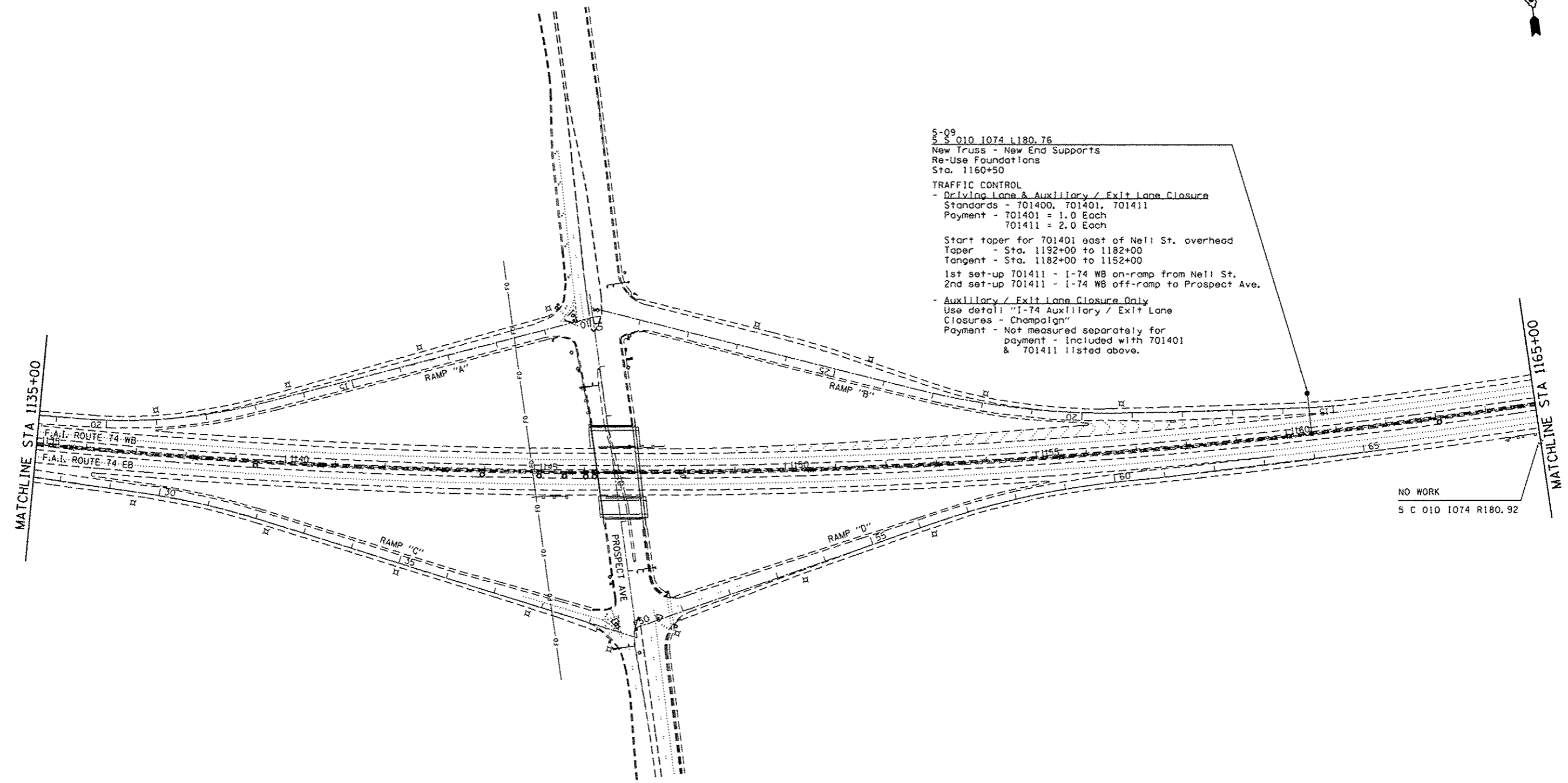
FILE NAME *	USER NAME = buaklee,jj	DESIGNED -	REVISED -
c:\pwwork\pwwork\buaklee,jj\d0308231\0546222-ht-plan-108.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 200.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 8/22/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	14
CONTRACT NO. 46222				
ILLINOIS FED. AID PROJECT				



5-09  
 5 S 010 1074 R180.76  
 New Truss - New End Supports  
 Re-Use Foundations  
 Sta. 1160+50

TRAFFIC CONTROL  
 - Driving Lane & Auxiliary / Exit Lane Closure  
 Standards - 701400, 701401, 701411  
 Payment - 701401 = 1.0 Each  
               701411 = 2.0 Each

Start taper for 701401 east of Nell St. overhead  
 Taper - Sta. 1192+00 to 1182+00  
 Tangent - Sta. 1182+00 to 1152+00  
 1st set-up 701411 - I-74 WB on-ramp from Nell St.  
 2nd set-up 701411 - I-74 WB off-ramp to Prospect Ave.

- Auxiliary / Exit Lane Closure Only  
 Use detail "I-74 Auxiliary / Exit Lane  
 Closures - Champaign"  
 Payment - Not measured separately for  
 payment - Included with 701401  
 & 701411 listed above.

NO WORK  
 5 C 010 1074 R180.92

• D-5 OVD SIN STR REPL 2013-09

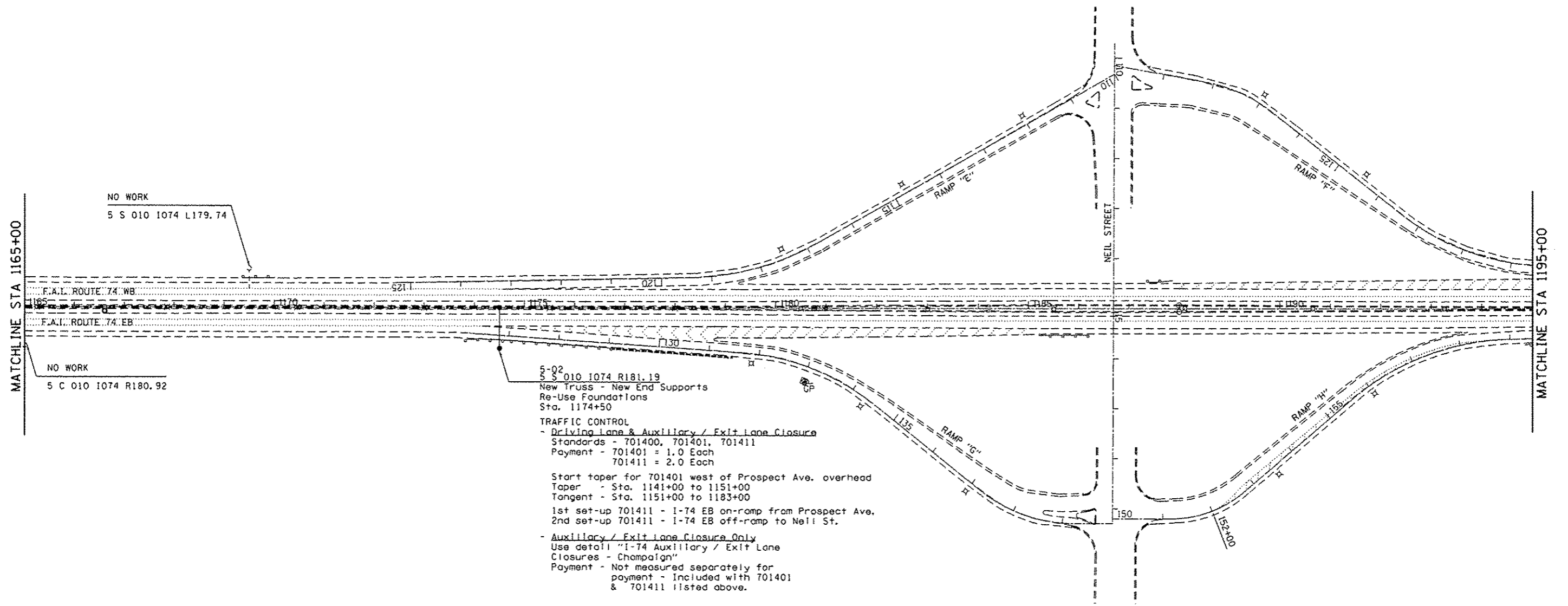
FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -
c:\pwork\pvidos\bucklesjj\0208231\054222.sht-plan.100.dgn		DRAWN -	REVISED -
	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/22/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	15
				CONTRACT NO. 46222
ILLINOIS FED. AID PROJECT				



NO WORK  
5 S 010 1074 L179.74

NO WORK  
5 C 010 1074 R180.92

5-02  
5 S 010 1074 R181.19  
New Truss - New End Supports  
Re-Use Foundations  
Sta. 1174+50

**TRAFFIC CONTROL**  
- Driving Lane & Auxiliary / Exit Lane Closure  
Standards - 701400, 701401, 701411  
Payment - 701401 = 1.0 Each  
701411 = 2.0 Each

Start taper for 701401 west of Prospect Ave. overhead  
Taper - Sta. 1141+00 to 1151+00  
Tangent - Sta. 1151+00 to 1183+00  
1st set-up 701411 - I-74 EB on-ramp from Prospect Ave.  
2nd set-up 701411 - I-74 EB off-ramp to Neil St.

- Auxiliary / Exit Lane Closure Only  
Use detail "I-74 Auxiliary / Exit Lane Closures - Champaign"  
Payment - Not measured separately for payment - included with 701401 & 701411 listed above.

• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME *	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL PLAN</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\ridet\bucklesj\0308231\054	222-shr-plan-188.dgn	DRAWN -	REVISED -						74		CHAMPAIGN	50	16
Default	PLT SCALE * 200.0000 1 / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 46222				
	PLT DATE * 8/22/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								





5-08  
 5 S 010 1074 L181.53  
 New Truss - New End Supports  
 Re-Use Foundations  
 Sta. 1198+06

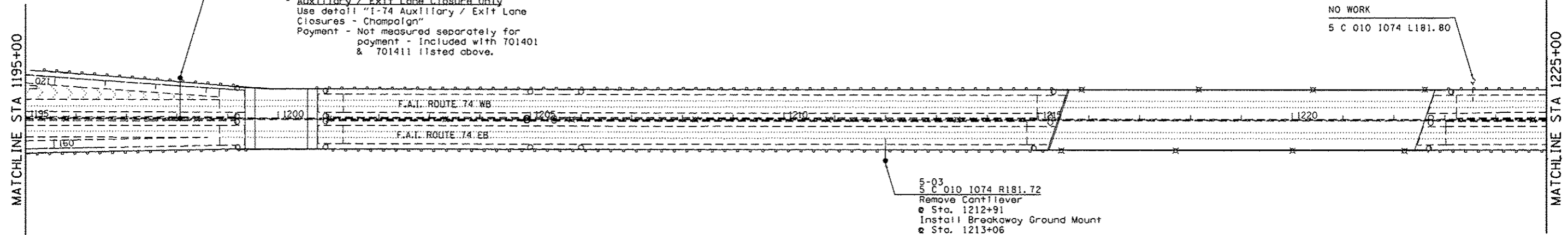
TRAFFIC CONTROL  
 - Driving Lane & Auxiliary / Exit Lane Closure  
 Standards - 701400, 701401, 701411  
 Payment - 701401 = 2.0 Each  
 701411 = 2.0 Each

Start taper for 701401 east of Lincoln Ave. overhead  
 Taper - Sta. 1259+00 to 1249+00  
 Tangent - Sta. 1249+00 to 1191+00

1st set-up 701411 - I-74 WB on-ramp from Lincoln Ave.  
 2nd set-up 701411 - I-74 WB off-ramp to Neil St.

- Auxiliary / Exit Lane Closure Only  
 Use detail "I-74 Auxiliary / Exit Lane  
 Closures - Champaign"  
 Payment - Not measured separately for  
 payment - Included with 701401  
 & 701411 listed above.

NO WORK  
 5 C 010 1074 L181.80



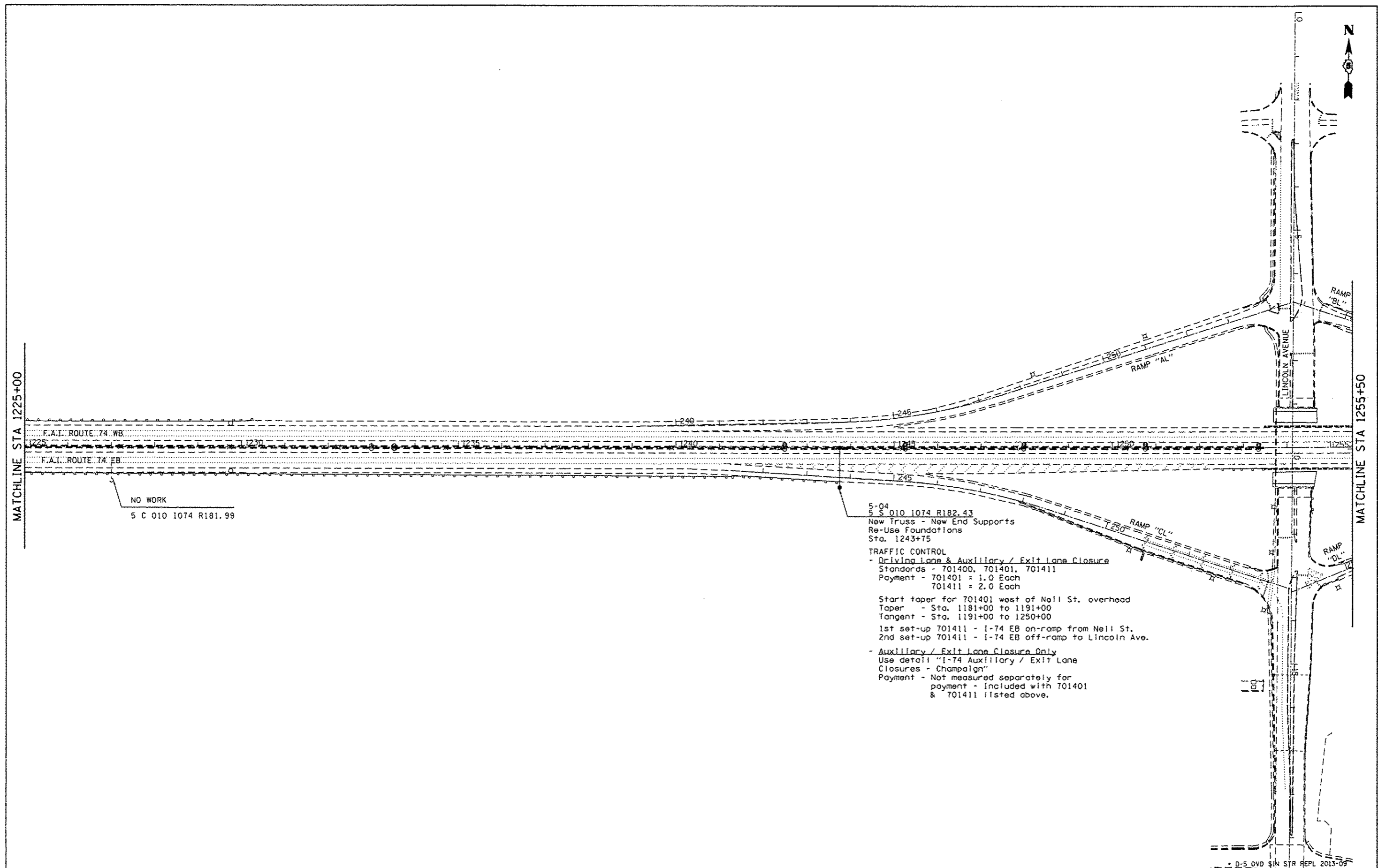
5-03  
 5 C 010 1074 R181.72  
 Remove Cantilever  
 • Sta. 1212+91  
 Install Breakaway Ground Mount  
 • Sta. 1213+06

TRAFFIC CONTROL  
 - Auxiliary / Exit Lane Closure Only  
 Use detail "I-74 Auxiliary / Exit Lane  
 Closures - Champaign"  
 Payment - 701401 = 1.0 Each  
 701411 = 1.0 Each

Modified 701411 - I-74 EB on-ramp from Neil St.

• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME * bucklesjj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL PLAN</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
o:\pwork\pwork\pwork\bucklesjj\d030231\054	222-shr-plan.188.dgn	DRAWN -	REVISED -						74	.	CHAMPAIGN	50	17
Default	PLOT SCALE * 200.0000 * / in.	CHECKED -	REVISED -						CONTRACT NO. 46222				
	PLOT DATE * 8/22/2012	DATE -	REVISED -						SCALE:	SHEET	OF	SHEETS	STA.



NO WORK  
5 C 010 1074 R181.99

5-04  
5 S 010 1074 R182.43  
New Truss - New End Supports  
Re-Use Foundations  
Sta. 1243+75

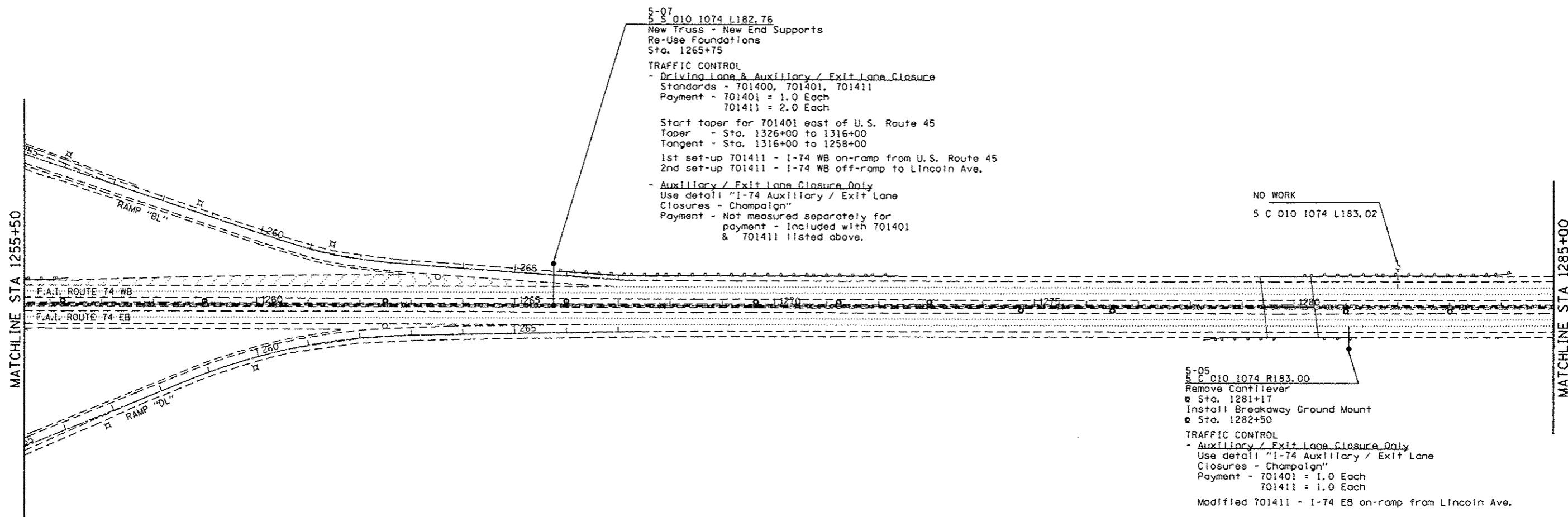
TRAFFIC CONTROL  
- Driving Lane & Auxiliary / Exit Lane Closure  
Standards - 701400, 701401, 701411  
Payment - 701401 = 1.0 Each  
701411 = 2.0 Each  
  
Start taper for 701401 west of Nell St. overhead  
Taper - Sta. 1181+00 to 1191+00  
Tangent - Sta. 1191+00 to 1250+00  
  
1st set-up 701411 - I-74 EB on-ramp from Nell St.  
2nd set-up 701411 - I-74 EB off-ramp to Lincoln Ave.  
  
- Auxiliary / Exit Lane Closure Only  
Use detail "I-74 Auxiliary / Exit Lane  
Closures - Champaign"  
Payment - Not measured separately for  
payment - Included with 701401  
& 701411 listed above.

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
c:\pwork\pvidot\bucklesj\40308231\094	b222-ctrlplan.100.dgn	DRAWN :	REVISED :
Default	PLOT SCALE :	CHECKED :	REVISED :
	PLOT DATE :	DATE :	REVISED :

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL PLAN</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	18
CONTRACT NO. 46222				
ILLINOIS FED. AID PROJECT				



• 0-5 OVD SIN STR REPL 2013-09

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
c:\pwwork\pwwork\dot\bucklesj\0308231\094222-shr-plan.100.dgn	bucklesj	-	-
Default	PLOT SCALE :	CHECKED :	REVISED :
	200.0000' / in.	-	-
	PLOT DATE :	DATE :	REVISED :
	8/22/2012	-	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

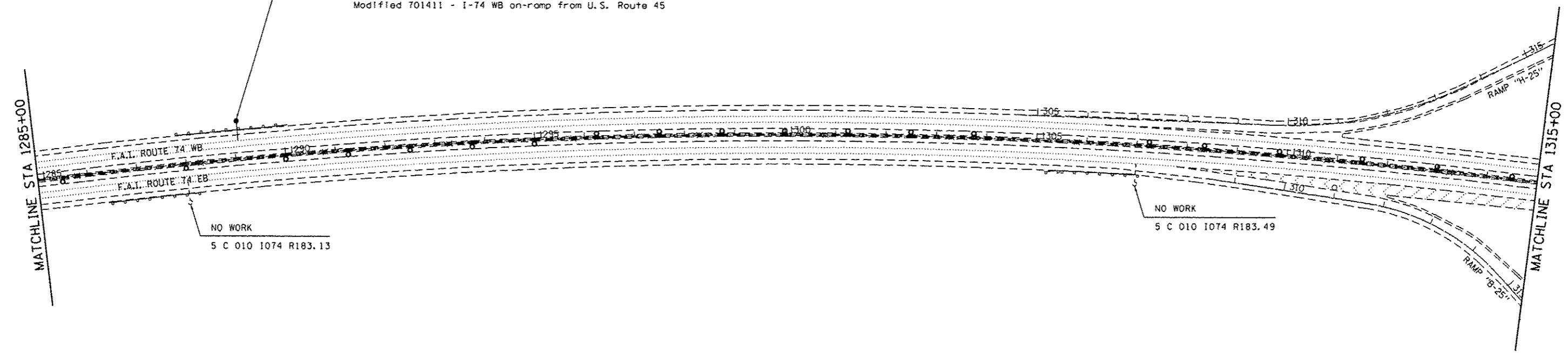
TRAFFIC CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	19
CONTRACT NO. 46222			ILLINOIS FED. AID PROJECT	

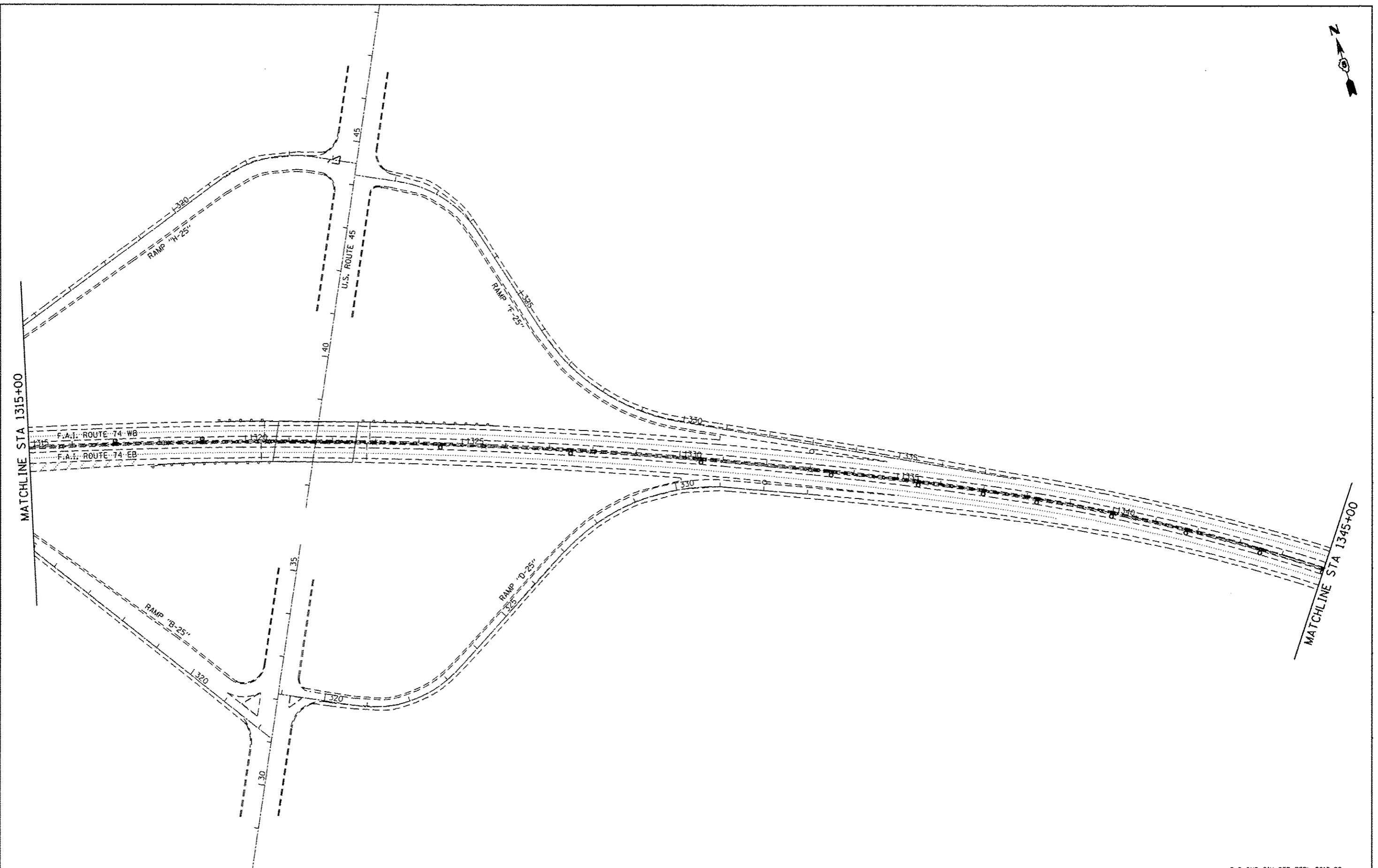


5-06  
 5 C 010 1074 R183.13  
 Remove Cantilever  
 @ Sta. 1288+04  
 Install Breakaway Ground Mount  
 @ Sta. 1287+84  
 TRAFFIC CONTROL  
 - Auxiliary / Exit Lane Closure Only  
 Use detail "I-74 Auxiliary / Exit Lane  
 Closures - Champaign"  
 Payment - 701401 = 1.0 Each  
 701411 = 1.0 Each  
 Modified 701411 - I-74 WB on-ramp from U.S. Route 45



\* D-5 OVD SIN STR REPL 2013-09

FILE NAME : c:\pwr_work\pvidot\bucklesj\40380231\094	USER NAME : bucklesj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL PLAN</b>		F.A.I. RTE. 74	SECTION -	COUNTY CHAMPAIGN	TOTAL SHEETS 50	SHEET NO. 20	
	PLOT SCALE : 200.0000 ' / in.	CHECKED -	REVISED -				CONTRACT NO. 46222					
On/Off:	PLOT DATE : 8/22/2012	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



FILE NAME = c:\pwwork\p\d01\buoklesj\d0308231\056222-ehf-plan.108.dgn	USER NAME = buoklesj	DESIGNED -	REVISED -
Default	PLOT SCALE = 200.0000 ' / in.	DRAWN -	REVISED -
	PLOT DATE = 8/22/2012	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

* D-5 OVD SIN STR REPL 2013-09				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	21
			CONTRACT NO. 46222	
ILLINOIS FED. AID PROJECT				

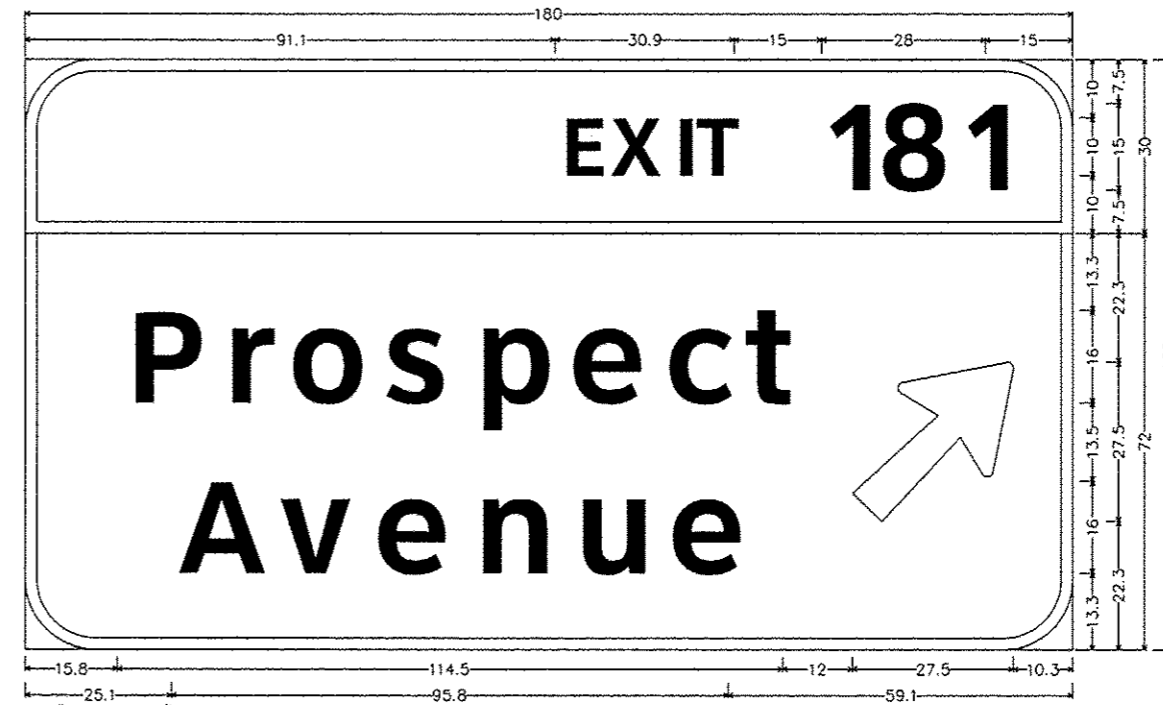
5-01 A  
5 S 010 1074 R180.40  
LEFT SIGN



12.0" Radius, 2.0" Border, White on Green;  
[EXIT 182] E Mod 2K;  
12.0" Radius, 2.0" Border, White on Green;  
[Neil] ClearviewHwy-5-W; [Street] ClearviewHwy-5-W; [ ? MILE ] E Mod 2K;  
Table of letter and object lefts.

E	X	I	T	1	8	2
17.6	26.5	37.3	41.0	63.9	71.5	86.9
N	e	i	l	l		
31.9	50.8	67.5	77.0			
S	t	r	e	e	t	
17.5	32.5	45.1	56.9	73.1	88.6	
?	M	I	L	E		
21.1	59.5	71.6	76.4	85.4		

5-01 B  
5 S 010 1074 R180.40  
RIGHT SIGN



12.0" Radius, 2.0" Border, White on Green;  
[EXIT 181] E Mod 2K;  
12.0" Radius, 2.0" Border, White on Green;  
[Prospect] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W; Arrow 160 - 35.0" 45};  
Table of letter and object lefts.

E	X	I	T	1	8	1
91.1	100.0	110.8	114.5	137.0	145.0	160.5
P	r	o	s	p	e	c
15.8	32.4	43.8	60.3	75.6	92.0	108.5
A	v	e	n	u	e	
25.1	42.6	58.3	75.6	92.8	109.1	

\* D-5 QVD SIN STR REPL 2013-09

FILE NAME *	USER NAME = bucklesjj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p\work\p\dat\bucllesjj\d0300231\054	222-Sht-Sign_Details.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CHAMPAIGN	50	22
	PLOT SCALE * 40.0000 ' / in.	CHECKED -	REVISED -								CONTRACT NO. 46222		
#MODELNAME*	PLOT DATE * 8/22/2012	DATE -	REVISED -								ILLINOIS FED. AID PROJECT		

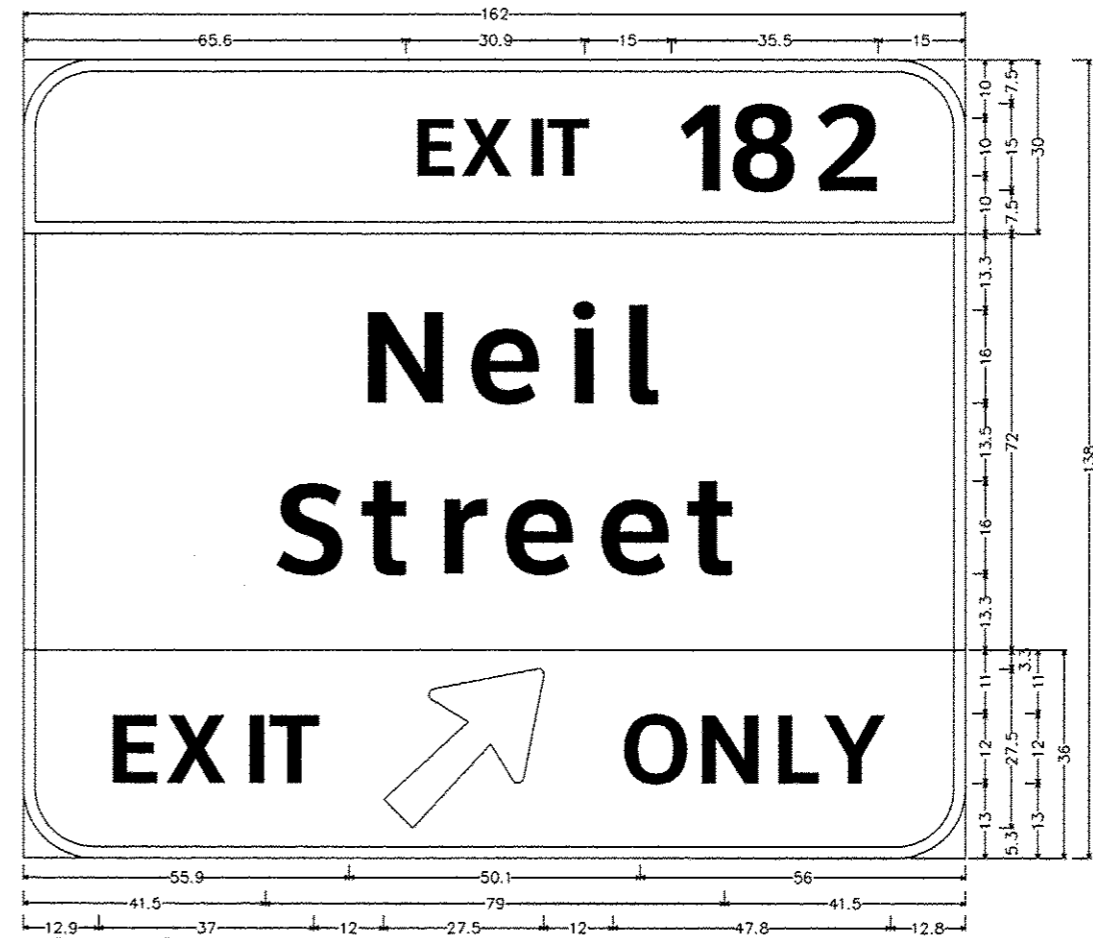
5-02 A  
5 S 010 I074 R181.19  
LEFT SIGN



12.0" Radius, 2.0" Border, White on Green;  
[EXIT 183] E Mod 2K;  
12.0" Radius, 2.0" Border, White on Green;  
[Lincoln] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W; [1 MILE] E Mod 2K;  
Table of letter and object lefts.

E	X	I	T	1	8	3
36.5	45.4	56.1	60.0	82.4	90.5	104.9
L	i	n	c	o	i	n
19.3	33.1	42.6	59.1	74.0	91.8	101.6
A	v	e	n	u	e	
18.1	35.6	51.5	68.6	85.8	102.1	
1	M	I	L	E		
39.6	59.1	71.3	76.0	85.0		

5-02 B  
5 S 010 I074 R181.19  
RIGHT SIGN



12.0" Radius, 2.0" Border, White on Green;  
[EXIT 182] E Mod 2K;  
12.0" Radius, 2.0" Border, White on Green;  
[Neil] ClearviewHwy-5-W; [Street] ClearviewHwy-5-W;  
12.0" Radius, 2.0" Border, Black on Yellow;  
[EXIT] E Mod 2K; Arrow 160 - 35.0" 45; [ONLY] E Mod 2K;  
Table of letter and object lefts.

E	X	I	T	1	8	2		
65.6	74.5	85.3	89.0	111.5	119.5	134.9		
N	e	i	l					
55.9	74.6	91.5	100.9					
S	t	r	e	e	t			
41.5	56.5	69.1	80.5	97.0	112.6			
E	X	I	T	O	N	L	Y	
12.9	23.5	36.4	41.0	61.9	101.4	114.4	127.4	137.0

• 0-5 OVD SIN STR REPL 2013-03

FILE NAME = c:\pwork\pvidot\bucklesj\08308231\054	USER NAME = bucklesj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGNING DETAILS</b>			F.A.J. RTE. 74	SECTION -	COUNTY CHAMPAIGN	TOTAL SHEETS 50	SHEET NO. 23			
MODEL NAME =	PLOT SCALE = 48.0000" / in.	DRAWN -	REVISED -					SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT
	PLOT DATE = 8/22/2012	CHECKED -	REVISED -					CONTRACT NO. 46222							

5-03  
 5 C 010 I074 R181.72



12.0" Radius, 2.0" Border, White on Green;  
 [University] ClearviewHwy-5-W; [of Illinois] ClearviewHwy-5-W;  
 12.0" Radius, 2.0" Border, White on Brown;  
 [County] ClearviewHwy-5-W; [Fairgrounds] ClearviewHwy-5-W; [EXIT 183] E Mod 2K;  
 Table of letter and object lefts.

U	n	i	v	e	r	s	i	t	y	
25.7	41.3	55.3	61.5	74.6	88.9	97.9	110.5	117.0	125.9	
o	f	i	l	l	i	n	o	s		
25.8	39.6	60.5	68.4	76.6	84.6	92.5	106.2	120.8	127.6	
C	o	u	n	t	y					
43.2	57.5	72.3	86.6	99.5	108.4					
F	a	i	r	g	r	o	u	n	d	s
14.9	26.6	40.5	48.3	57.8	72.6	82.1	96.9	111.1	124.8	138.5
E	x	i	t	1	8	3				
40.8	49.6	60.4	64.2	86.6	94.7	109.1				

• D-5 DVD SIGN STR REPL 2013-09

FILE NAME *	USER NAME = bucklesjj	DESIGNED -	REVISED -
c:\pwwork\pwwork\bucllesjj\d0388231\054	222-Sht-Sign_Details.dgn	DRAWN -	REVISED -
	PLOT SCALE = 48.0000 ' / in.	CHECKED -	REVISED -
#MODELNAME#	PLOT DATE = 8/22/2012	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

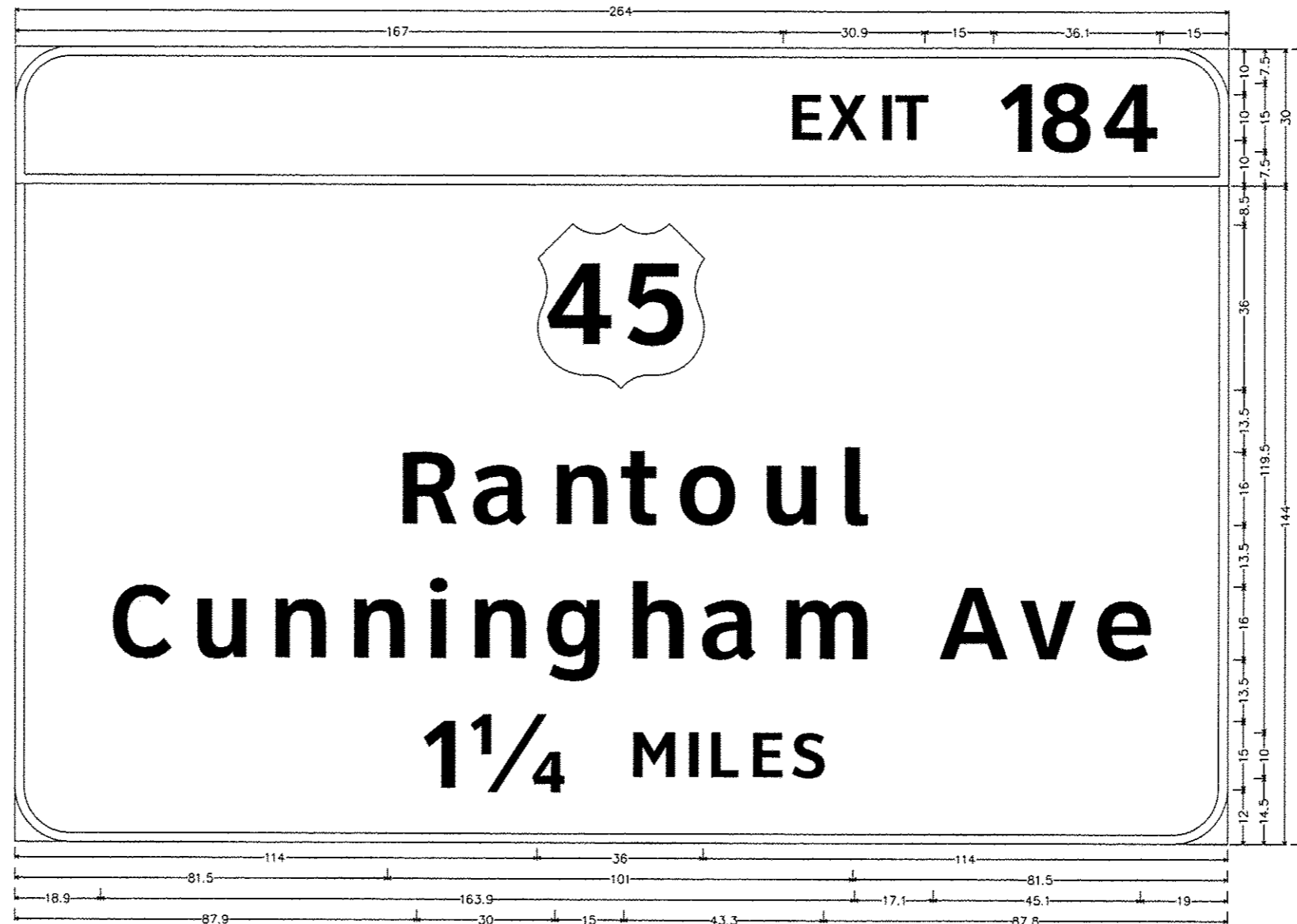
SIGNING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	24
CONTRACT NO. 46222				
[ILLINOIS] FED. AID PROJECT				



5-04 A  
 5 S 010 1074 R182.43  
 LEFT SIGN



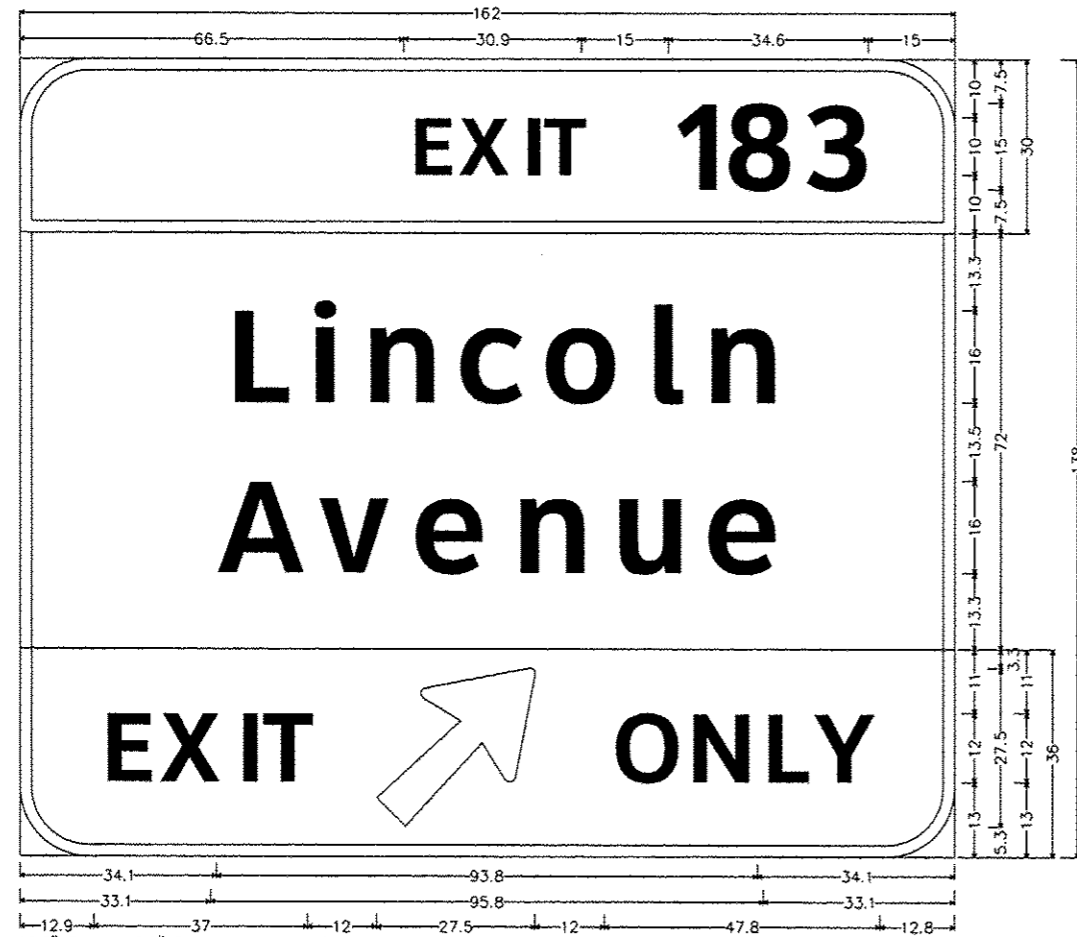
12.0" Radius, 2.0" Border, White on Green;  
 [EXIT 184] E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 [Rantoul] ClearviewHwy-5-W; [Cunningham Ave] ClearviewHwy-5-W; [1 1/4 MILES] E Mod 2K;  
 Table of letter and object lefts.

E	X	I	T	1	8	4
167.0	175.9	186.6	190.5	212.9	221.0	235.0
3						
114.0						
R	a	n	t	o	u	l
81.5	98.0	115.0	130.5	142.6	160.4	177.4
C	u	n	n	i	n	g
18.9	36.9	53.8	71.0	87.8	97.3	113.9
131.5	147.8	164.8	200.0	217.5	233.4	
1	1/4	M	I	L	E	S
87.9	97.8	132.9	145.0	149.8	158.8	168.0

• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME * bucklesjj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING DETAILS				F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pvidat\bucklesjj\d0308231\054	222-Sht-Sign_Details.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	74	CHAMPAIGN	50	25
#MODELNAME*	PLOT SCALE * 40,0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 46222									
	PLOT DATE * 8/22/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT										

5-04 B  
 5 S 010 1074 R182.43  
 RIGHT SIGN



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT 183] E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 [Lincoln] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W;  
 12.0" Radius, 2.0" Border, Black on Yellow;  
 [EXIT] E Mod 2K; Arrow 160 - 35.0" 45°; [ONLY] E Mod 2K;  
 Table of letter and object lefts.

E	X	I	T	1	8	3		
66.5	75.4	86.1	90.0	112.4	120.5	134.9		
L	I	N	C	O	L	I	N	
34.1	48.1	57.6	74.1	88.9	106.8	116.6		
A	V	E	N	U	E			
33.1	50.6	66.4	83.6	100.8	117.1			
E	X	I	T	↑	O	N	L	Y
12.9	23.5	36.4	41.0	61.9	101.4	114.4	127.4	137.0

5-06  
 5 C 010 1074 L183.13



12.0" Radius, 2.0" Border, White on Green;  
 [University] ClearviewHwy-5-W; [of Illinois] ClearviewHwy-5-W;  
 12.0" Radius, 2.0" Border, White on Brown;  
 [County] ClearviewHwy-5-W; [Fairgrounds] ClearviewHwy-5-W; [EXIT 183] E Mod 2K;  
 Table of letter and object lefts.

U	n	i	v	e	r	s	i	t	y	
25.7	41.3	55.3	61.5	74.6	88.9	97.9	110.5	117.0	125.9	
o	f	i	l	l	i	n	o	f		
25.8	39.6	60.5	68.4	76.6	84.6	92.5	106.2	120.8	127.6	
C	o	u	n	t	y					
43.2	57.5	72.3	86.6	99.5	108.4					
F	a	i	r	g	r	o	u	n	d	s
14.9	26.6	40.5	48.3	57.8	72.6	82.1	96.9	111.1	124.8	138.5
E	X	I	T	1	8	3				
40.8	49.6	60.4	64.2	86.6	94.7	109.1				

FILE NAME *	USER NAME * bucklesjj	DESIGNED -	REVISED -
c:\pwwork\paxidat\bucklesjj\0308231\05-222-Sign-Details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	CHAMPAIGN	50	26
			CONTRACT NO. 46222	
ILLINOIS FED. AID PROJECT				

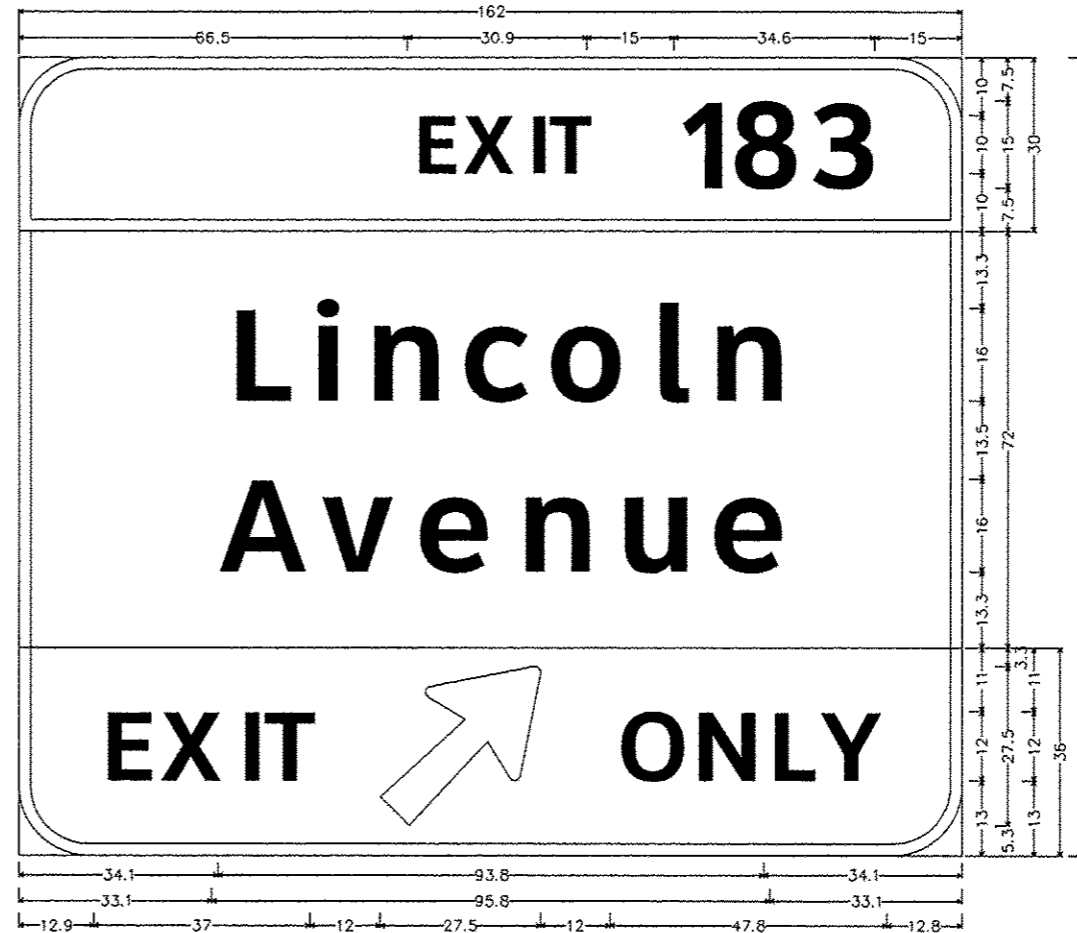
5-07 A  
5 S 010 1074 L182.76  
LEFT SIGN



12.0" Radius, 2.0" Border, White on Green;  
[EXIT 182] E Mod 2K;  
12.0" Radius, 2.0" Border, White on Green;  
[Neil] ClearviewHwy-5-W; [Street] ClearviewHwy-5-W; [1 MILE] E Mod 2K;  
Table of letter and object lefts.

E	X	I	T	1	8	2
17.6	26.5	37.3	41.0	63.5	71.5	86.9
N	e	i	l	s	t	
31.9	50.8	67.5	77.0			
S	t	r	e	e	t	
17.5	32.5	45.1	55.3	73.1	88.6	
1	M	I	L	E		
30.6	50.1	62.3	67.0	76.0		

5-07 B  
5 S 010 1074 L182.76  
RIGHT SIGN



12.0" Radius, 2.0" Border, White on Green;  
[EXIT 183] E Mod 2K;  
12.0" Radius, 2.0" Border, White on Green;  
[Lincoln] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W;  
12.0" Radius, 2.0" Border, Black on Yellow;  
[EXIT] E Mod 2K; Arrow 160 - 35.0" 45j; [ONLY] E Mod 2K;  
Table of letter and object lefts.

E	X	I	T	1	8	3
66.5	75.4	86.1	90.0	112.4	120.5	134.9
L	i	n	c	o	l	n
34.1	48.1	57.6	74.1	88.9	106.8	116.6
A	v	e	n	u	e	
33.1	50.6	66.4	83.6	100.8	117.1	
E	X	I	T	A	R	R
12.9	23.9	36.4	41.0	61.9	101.4	114.4
					127.4	137.0

• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME # buckleejj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\p\work\p\eidot\buclleejj\40388231\09	222-Sht-Sign_Details.dgn	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	74	50	27
	PLOT SCALE * 48.0000' / in.	CHECKED -	REVISED -								CHAMPAIGN	50	27
#MODELNAME*	PLOT DATE * 8/22/2012	DATE -	REVISED -								CONTRACT NO. 46222		

ILLINOIS FED. AID PROJECT

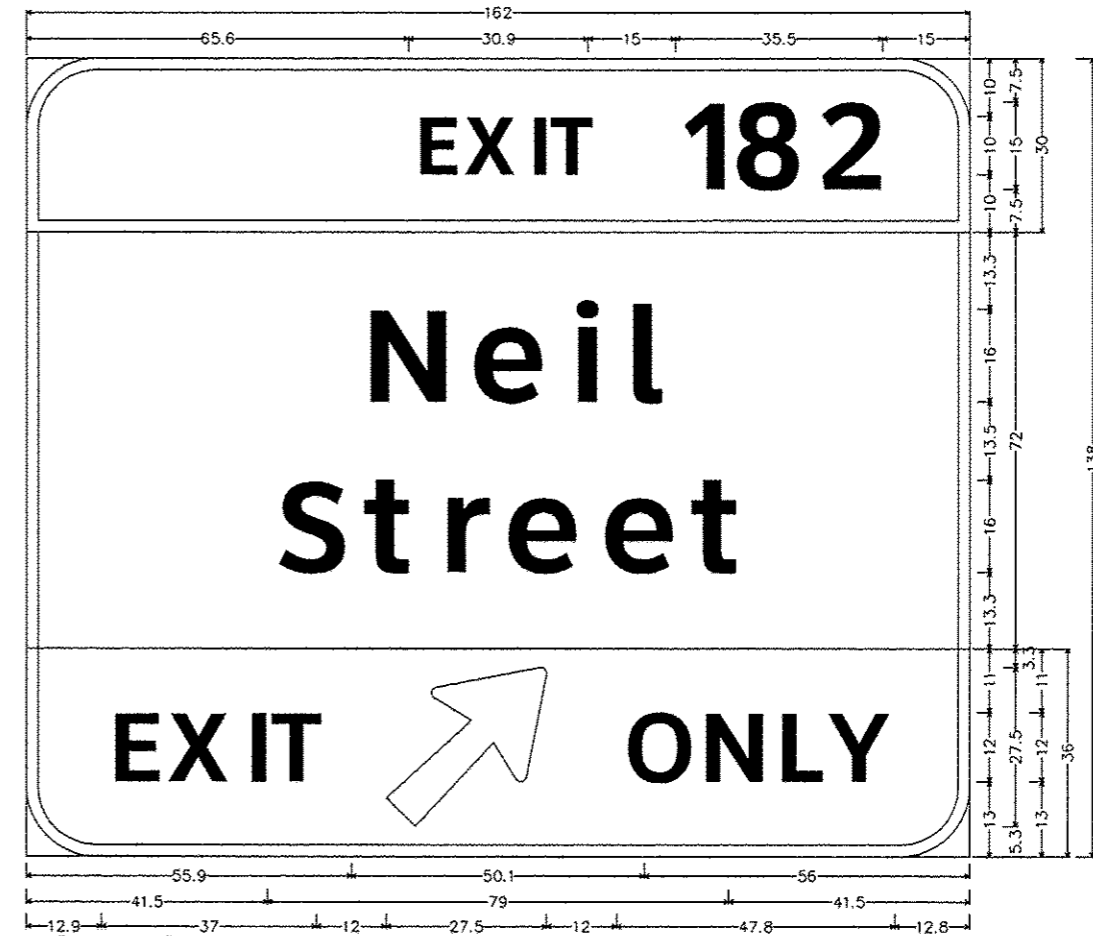
5-08 A  
 5 S 010 I074 L181.53  
 LEFT SIGN



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT 181] E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 [Prospect] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W; [? MILE] E Mod 2K;  
 Table of letter and object lefts.

E	X	I	T	1	8	1	
61.1	70.0	80.8	84.5	107.0	115.0	130.5	
P	r	o	s	p	e	c	t
17.8	34.4	45.8	62.3	77.8	94.0	110.6	124.4
A	v	e	n	u	e		
27.1	44.6	60.5	77.6	94.8	111.1		
3/4	M	I	L	E			
39.1	77.5	89.6	94.4	103.4			

5-08 B  
 5 S 010 I074 L181.53  
 RIGHT SIGN



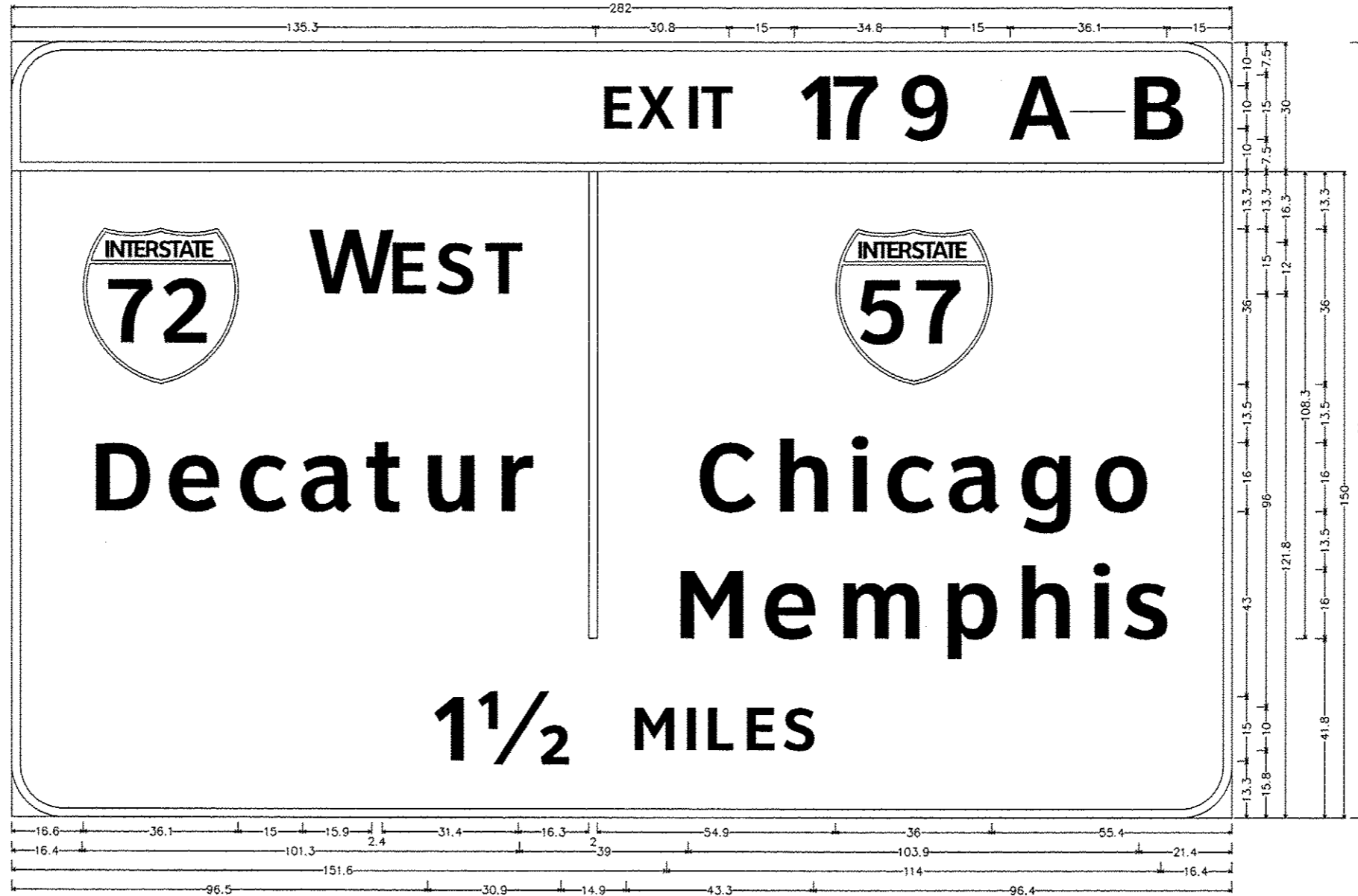
12.0" Radius, 2.0" Border, White on Green;  
 [EXIT 182] E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 [Neil] ClearviewHwy-5-W; [Street] ClearviewHwy-5-W;  
 12.0" Radius, 2.0" Border, Black on Yellow;  
 [EXIT] E Mod 2K; [Arrow 160 - 35.0° 45]; [ONLY] E Mod 2K;  
 Table of letter and object lefts.

E	X	I	T	1	8	2		
65.6	74.5	85.3	89.0	111.5	119.5	134.9		
N	e	i	l					
55.9	74.6	91.5	100.9					
S	t	r	e	e	t			
41.5	56.5	69.1	80.5	97.0	112.6			
E	X	I	T	O	N	L	Y	
12.9	23.5	36.4	41.0	61.9	101.4	114.4	127.4	137.0

• 0-5 DVD SIN STR REPL 2013-09

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\backlog\id030823\054	222-Sign_Details.dgn	DRAWN :	REVISED :			74	*	CHAMPAIGN	50	28	
PLOT SCALE :	CHECKED :	REVISOR :	REVISIONS :			CONTRACT NO. 46222					
#MODELNAME#	PLOT DATE :	DATE :	REVISIONS :			ILLINOIS FED. AID PROJECT					

5-09 A  
 5 S 010 1074 L180.76  
 LEFT SIGN



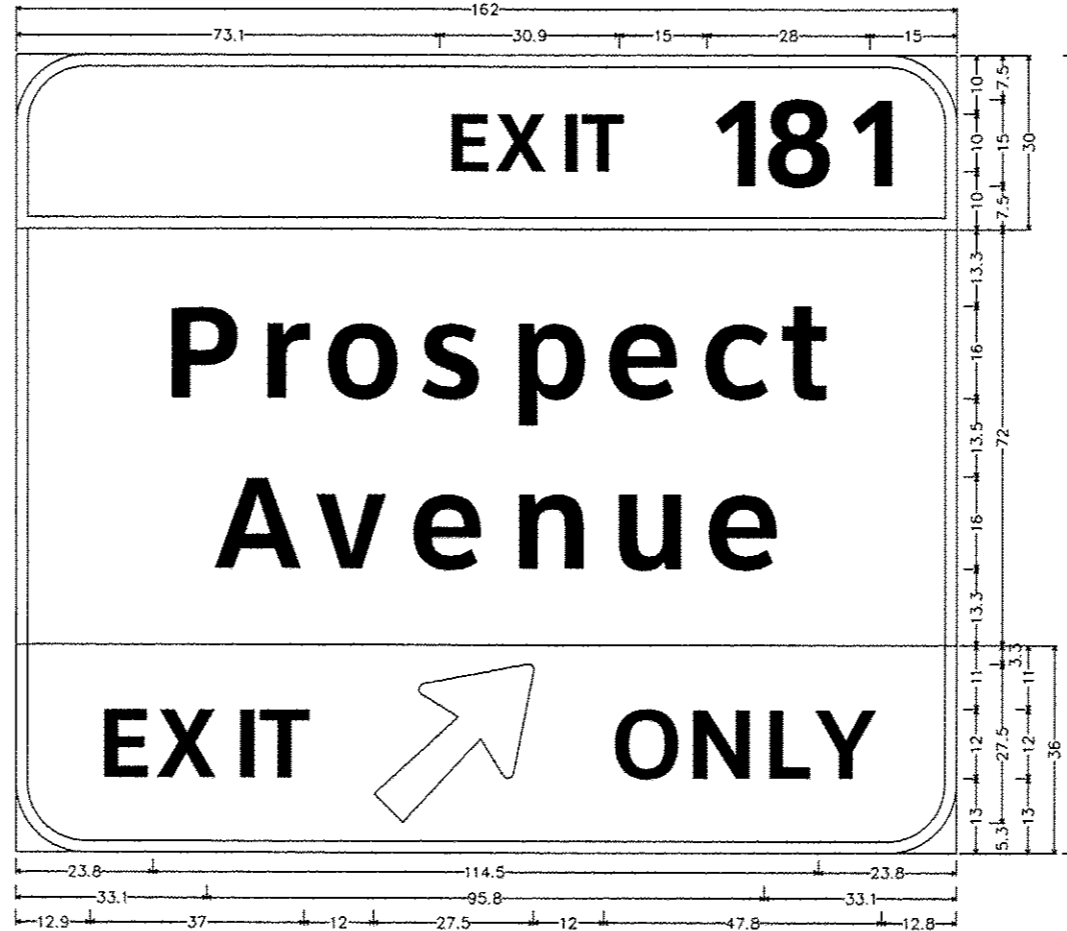
12.0" Radius, 2.0" Border, White on Green;  
 [EXIT 179 A-B] E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 [WEST] E Mod 2K; [Decatur] ClearviewHwy-5-W; [Chicago] ClearviewHwy-5-W; [Memphis] ClearviewHwy-5-W; [1 1/2 MILES] E Mod 2K;  
 Table of letter and object lefts.

E	X	I	T	1	7	9	A	-	B				
135.3	144.0	154.9	158.6	181.0	188.5	203.8	230.9	247.0	254.9				
W	E	S	T										
16.6	67.8	86.0	97.0	108.5	133.6	190.6							
D	e	c	a	t	u	r	C	h	i	c	a	g	o
16.4	34.4	50.9	65.4	80.8	93.4	110.4	156.8	174.6	191.4	200.3	214.8	231.1	248.8
M	e	m	p	h	i	s							
151.6	172.0	189.1	213.4	230.4	247.1	255.4							
1	1/2	M	I	L	E	S							
96.5	106.4	142.4	154.4	159.3	168.3	177.4							

• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME * buaklesjj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGNING DETAILS</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\buaklesjj\030231\054222-Sign-Details.dgn	PLLOT SCALE * 48,0000' / in.	DRAWN -	REVISED -						74		CHAMPAIGN	50	29
MODELNAME *	PLLOT DATE * 8/22/2012	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 46222 ILLINOIS FED. AID PROJECT	
		DATE -	REVISED -										

5-09 B  
 5 S 010 1074 L180.76  
 RIGHT SIGN



12.0" Radius, 2.0" Border, White on Green;  
 [EXIT 181] E Mod 2K;  
 12.0" Radius, 2.0" Border, White on Green;  
 [Prospect] ClearviewHwy-5-W; [Avenue] ClearviewHwy-5-W;  
 12.0" Radius, 2.0" Border, Black on Yellow;  
 [EXIT] E Mod 2K; Arrow 160 - 35.0" 45; [ONLY] E Mod 2K;  
 Table of letter and object lefts.

E	X	I	T	1	8	1		
73.1	82.0	92.8	96.9	119.0	127.0	142.9		
P	r	o	s	p	e	c		
23.8	40.3	51.6	68.3	83.6	100.0	116.5		
A	v	e	n	u	e			
33.1	50.6	66.4	83.8	100.8	117.1			
E	X	I	T	2	O	N	L	Y
12.9	23.9	36.4	41.0	61.9	101.4	114.4	127.4	137.0

• 0-5 OVD SIN STR REPL 2013-09

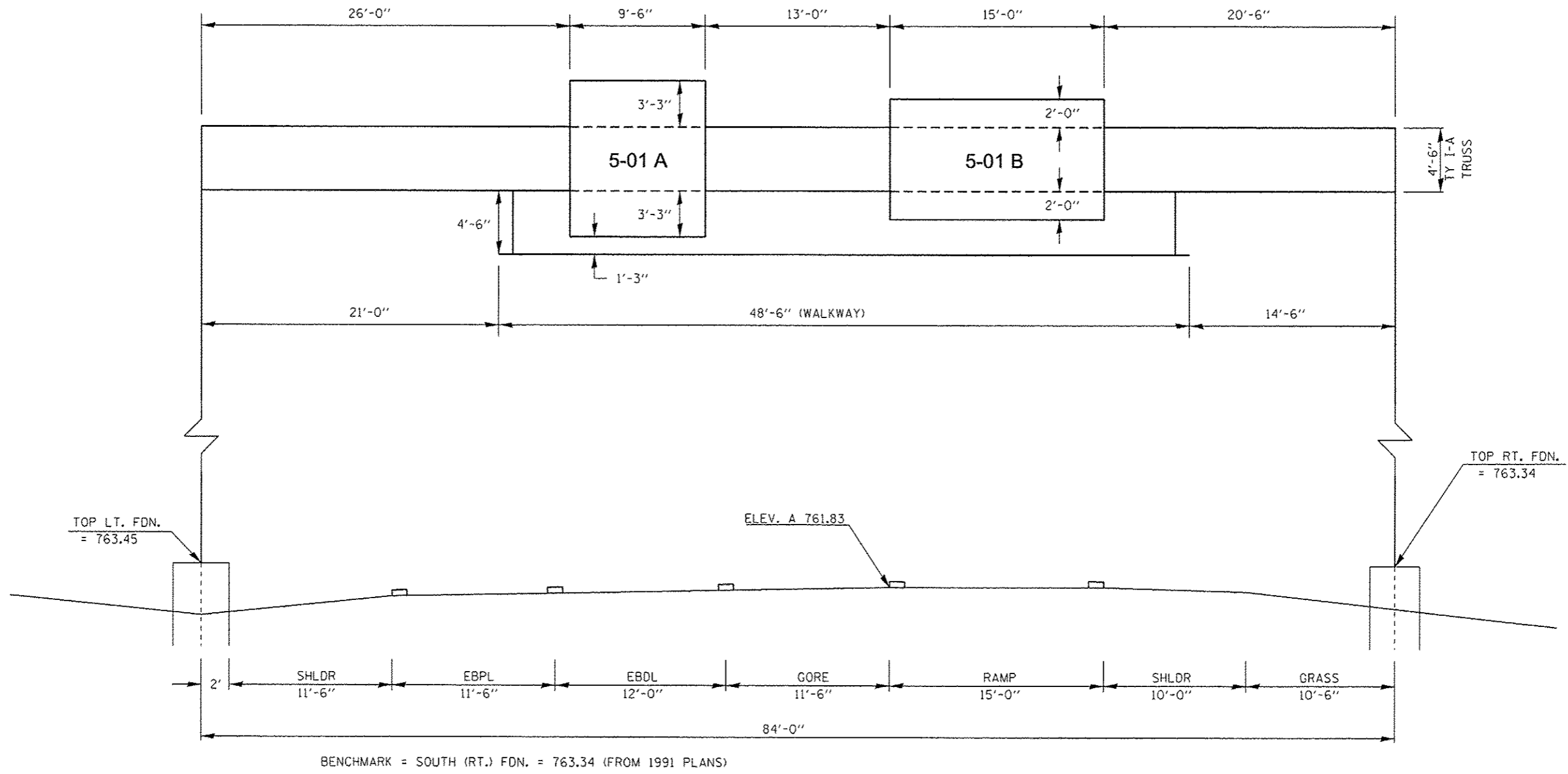
FILE NAME *	USER NAME * bucklejj	DESIGNED -	REVISED -
c:\pwork\pvidot\bucllej\0308231\09	222-Sign-Detail.dgn	DRAWN -	REVISED -
	PLOT SCALE * 40.0000' / in.	CHECKED -	REVISED -
#MODELNAME*	PLOT DATE * 8/22/2012	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

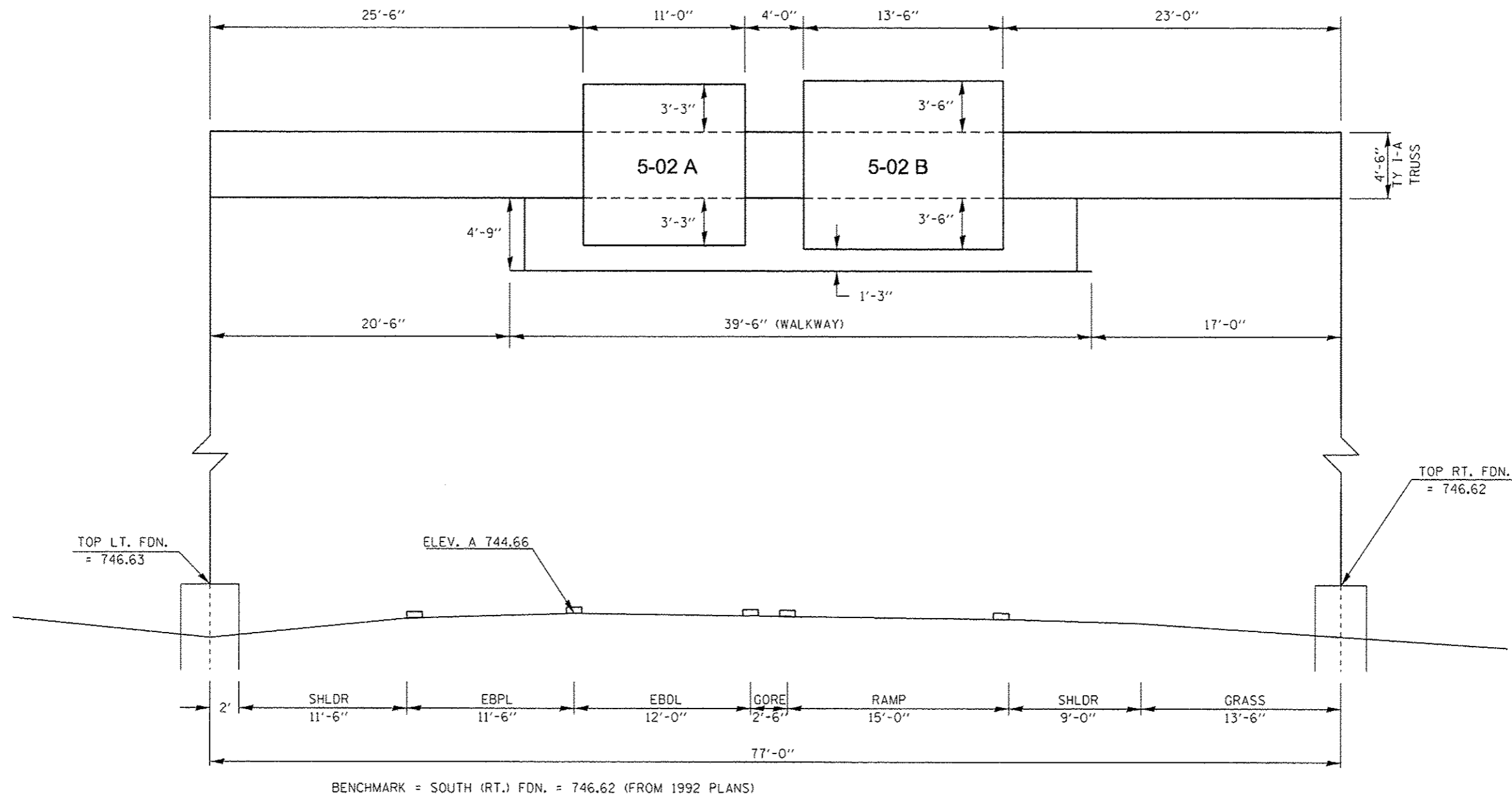
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	CHAMPAIGN	50	30
CONTRACT NO. 46222			ILLINOIS FED. AID PROJECT	



• D-5 OVD SIN STR REPL 2013-09

FILE NAME * d:\pwork\pvidot\buoklesj\0808231\09	USER NAME * buoklesj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN TRUSS MOUNTING DETAIL 5 S 010 1074 R180.40</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	222-Sign-Truss-Details.dgn	DRAWN -	REVISED -				74	*	CHAMPAIGN	50	31
Default	PLOT SCALE * 40.0000 ' / in.	CHECKED -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 46222		ILLINOIS FED. AID PROJECT			
	PLOT DATE * 8/22/2012	DATE -	REVISED -								



\* D-5 OVD SIN STR REPL 2013-09

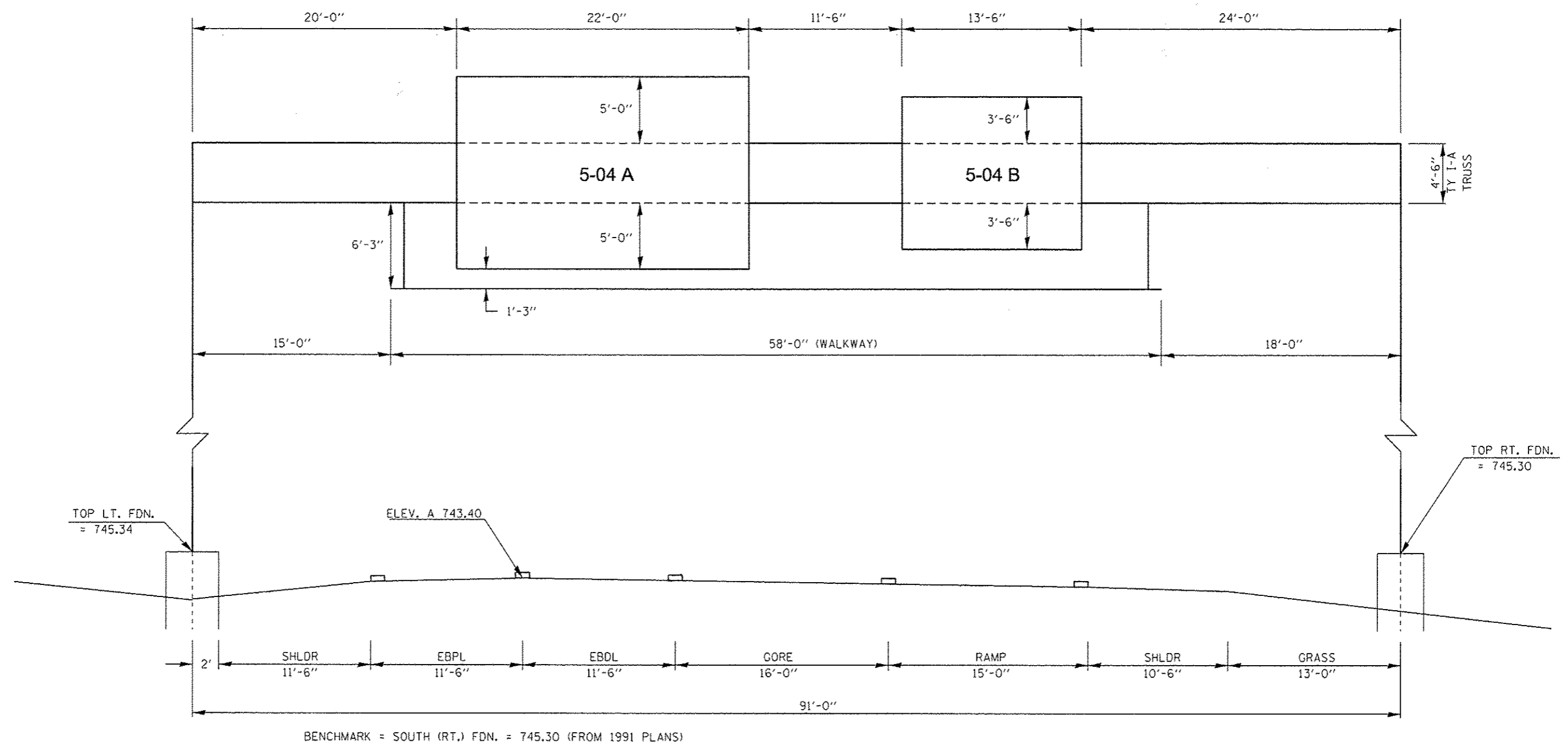
FILE NAME *	USER NAME *	DESIGNED -	REVISED -
c:\pwwork\pvidot\buchles\j\4038823\054	buchlesjj	222-Sign-Truss-Details.dgn	
	PLOT SCALE *	CHECKED -	REVISED -
Default	48.0000' / in.		
	PLOT DATE *	DATE -	REVISED -
	8/22/2012		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIGN TRUSS MOUNTING DETAIL</b>			
5 S 010 1074 R181.19			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

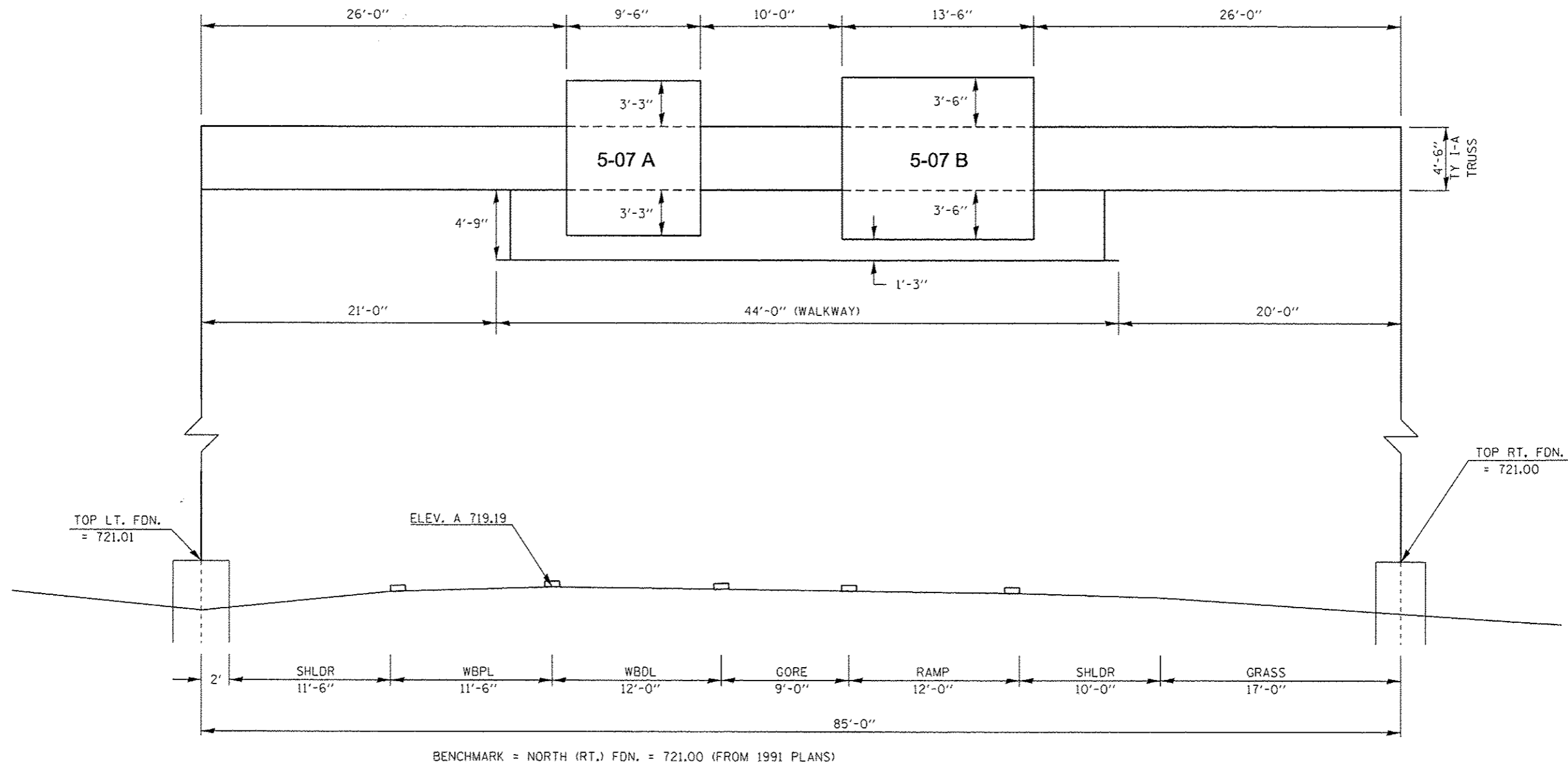
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	32
CONTRACT NO. 46222			ILLINOIS FED. AID PROJECT	





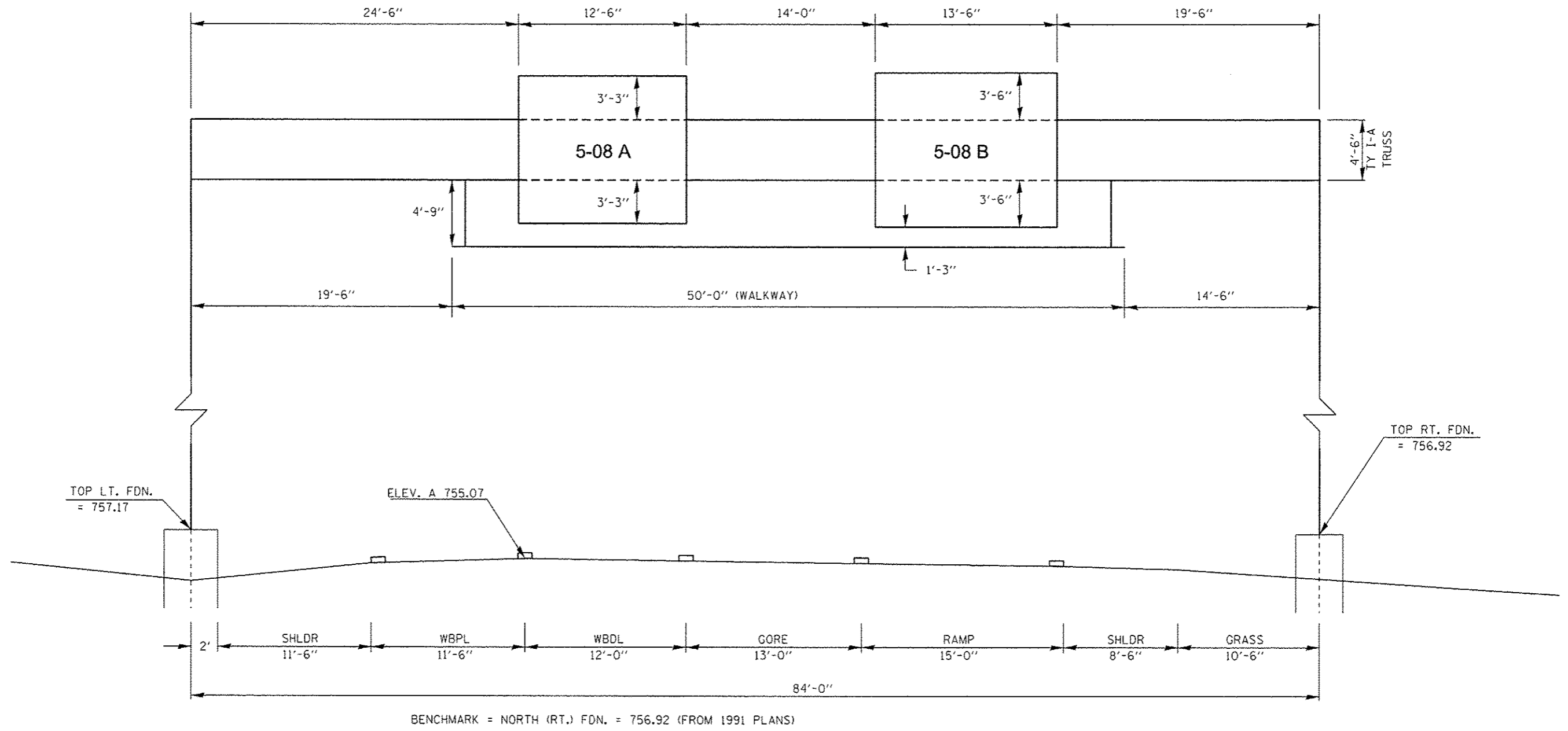
• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME *	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN TRUSS MOUNTING DETAIL</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwworkspace\dot\buoklesj\d0300231\05	222-Sht-Sign-Truss-Detail.dgn	DRAWN -	REVISED -		5 S 010 1074 R182.43		74		CHAMPAIGN	50	33
Default	PLOT SCALE * 48.0000 ' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 46222
	PLOT DATE * 8/22/2012	DATE -	REVISED -								ILLINOIS FED. AID PROJECT



• D-5 OVD SIGN STR REPL 2013-09

FILE NAME *	USER NAME * bucklejj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN TRUSS MOUNTING DETAIL</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\p\dot\bucliejj\d0388231\0546222-Sign-Truss-Details.dgn		DRAWN -	REVISED -		5 S 010 1074 L182.76		74	*	CHAMPAIGN	50	34
PLOT SCALE * 48.0000 ' / in.		CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 46222
Default	PLOT DATE * 8/22/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						



TOP RT. FDN.  
= 756.92

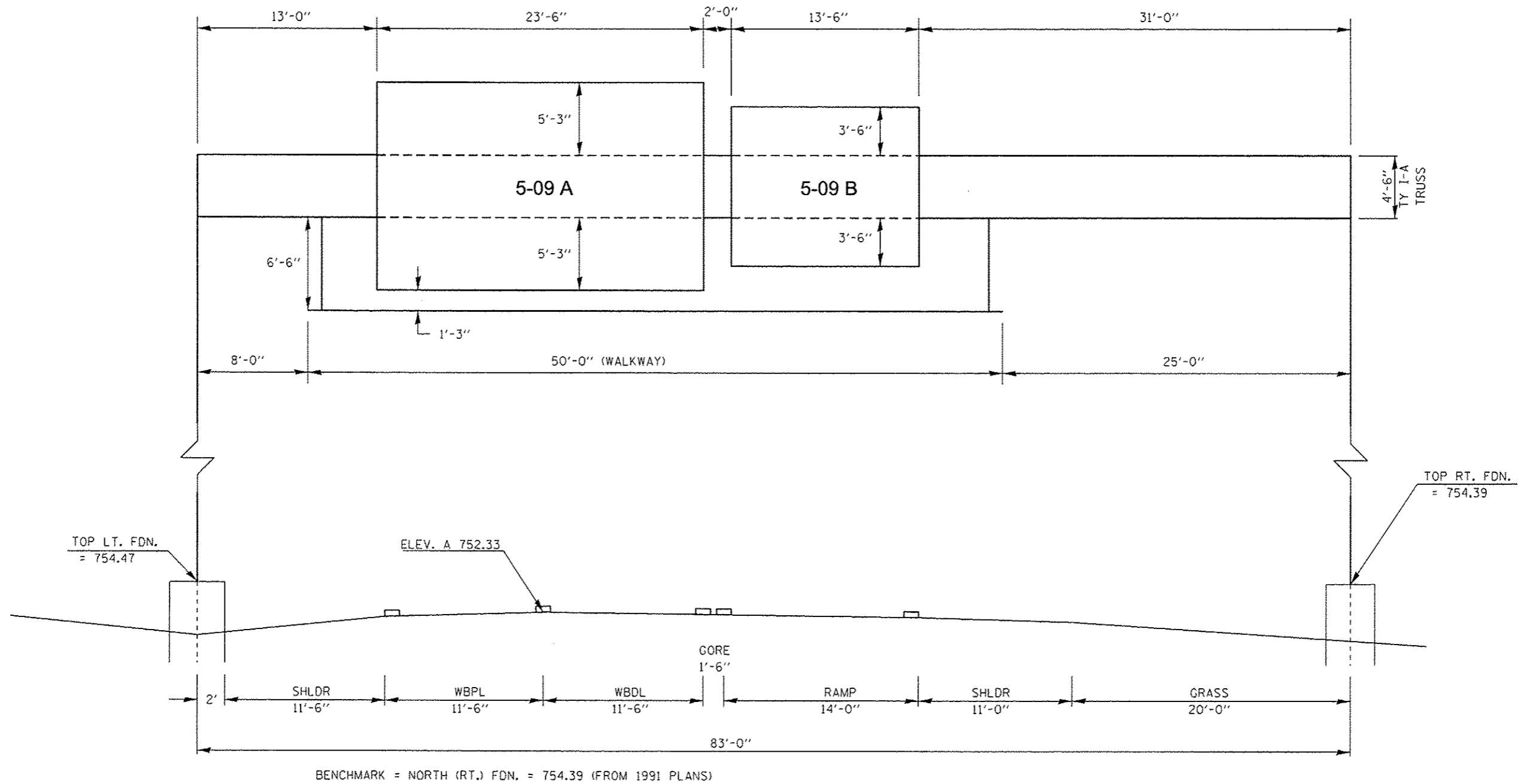
TOP LT. FDN.  
= 757.17

ELEV. A 755.07

BENCHMARK = NORTH (RT.) FDN. = 756.92 (FROM 1991 PLANS)

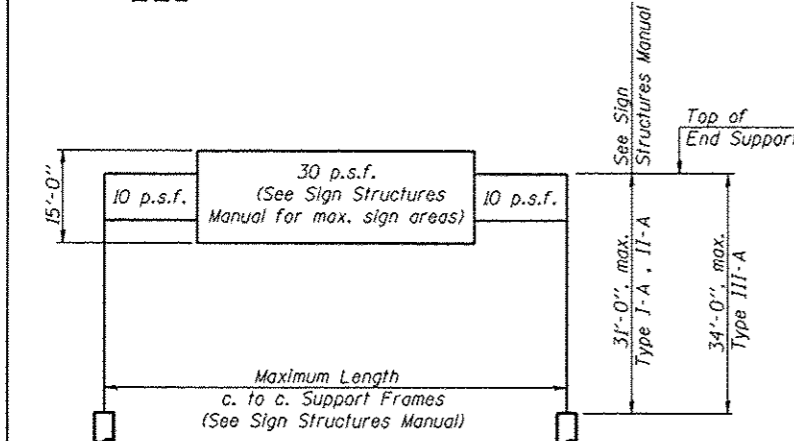
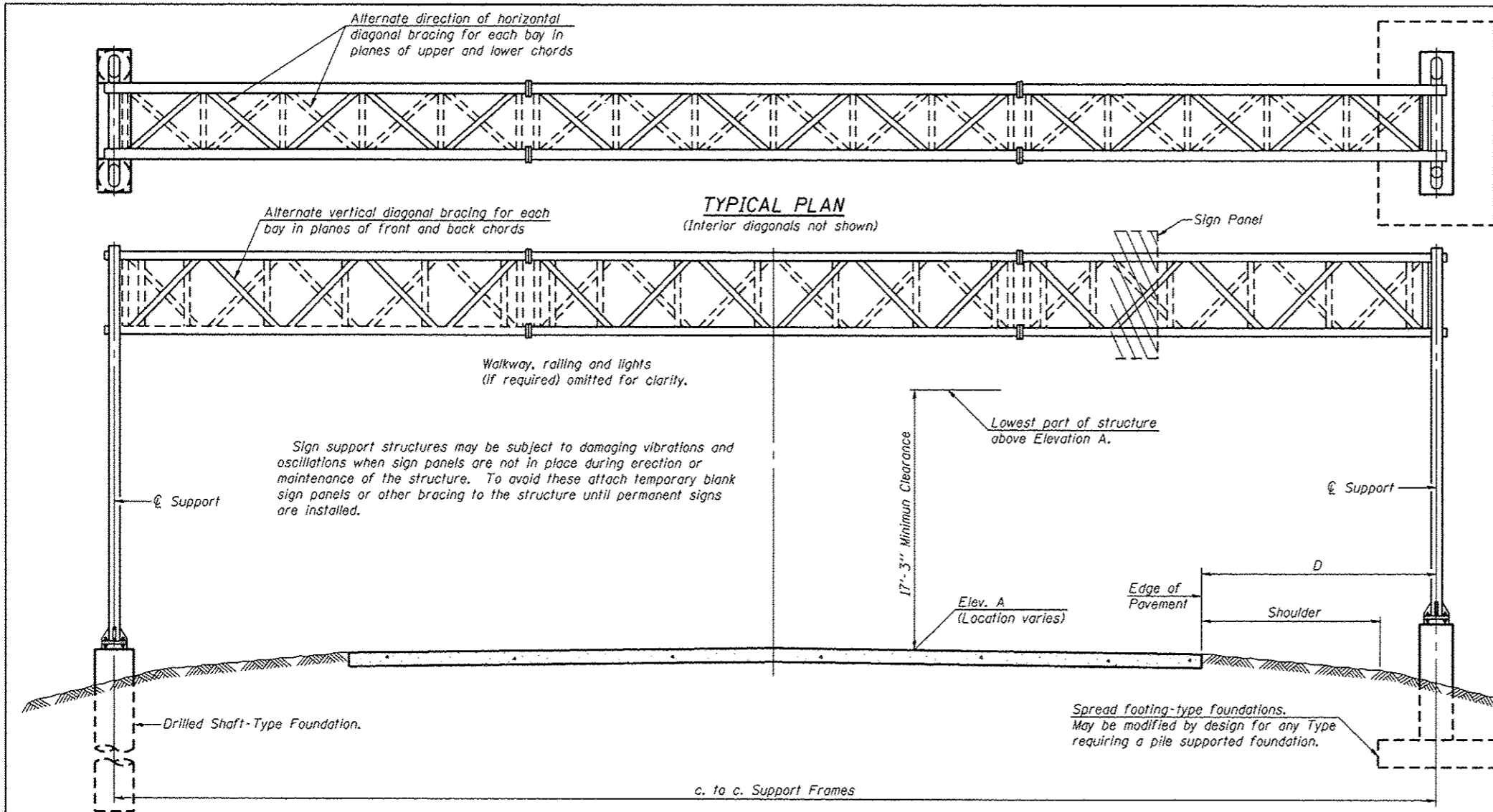
• D-5 OVD SIN STR REPL 2013-09

FILE NAME	USER NAME	DESIGNED	REVISED	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN TRUSS MOUNTING DETAIL 5 S 010 1074 L181.53</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\p\work\p\dot\bucklesj\030823\054	222-Sht-Sign-Truss-Detail.dgn	DRAWN	REVISED					T4		CHAMPAIGN	50	35	
	PLOT SCALE	CHECKED	REVISED		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 46222	
Default	8/22/2012	DATE	REVISED										



• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME = bucklesjj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGN TRUSS MOUNTING DETAIL 5 S 010 1074 1180.76</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	222-Sht-Sign-Truss-Details.dgn	DRAWN -	REVISED -					74		CHAMPAIGN	50	36
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 46222	
	PLOT DATE = 8/22/2012	DATE -	REVISED -									



**DESIGN WIND LOADING DIAGRAM**  
 Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

**TYPICAL ELEVATION**  
 (Looking at Face of Signs)\*\*)

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
5-01 5S 010 1074 R180.40	1134+50	I-A	84'-0"	761.83	***	11'-0"	232.0
5-02 5S 010 1074 R181.19	1174+50	I-A	77'-0"	744.66	***	11'-6"	276.25
5-04 5S 010 1074 R182.43	1243+75	I-A	91'-0"	743.40	***	14'-6"	474.25
5-07 5S 010 1074 L182.76	1265+75	I-A	85'-0"	719.19	***	11'-6"	259.75
5-08 5S 010 1074 L181.53	1198+06	I-A	84'-0"	755.07	***	11'-6"	292.75
5-09 5S 010 1074 L180.76	1160+50	I-A	83'-0"	752.33	***	15'-0"	507.75

- \* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.
- \*\* Looking upstation for structures with signs both sides.
- \*\*\* See sign truss mounting details
- \*\*\*\* End support height based on 15'-0" sign height or tallest sign whichever is greater per OS-A-4 and OS-A-6.

OS-A-1

6-1-12

FILE NAME	USER NAME	DESIGNED	REVISED
al:\pwork\pvidot\bucklesj\10808231\09-222-Sig-Str-Structure-Details.dgn	bucklesj	-	-
PLOT SCALE	CHECKED	DATE	REVISED
1/4" = 1'-0"	-	8/22/2012	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - GENERAL PLAN &  
 ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	37
CONTRACT NO.			46222	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")  
**CONSTRUCTION:** Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

**LOADING:** 90 M.P.H. WIND VELOCITY  
**WALKWAY LOADING:** Dead load plus 500 lbs. concentrated live load.

**DESIGN STRESSES:**  
 Field Units  
 $f'_c = 3,500$  p.s.i.  
 $f_y = 60,000$  p.s.i. (reinforcement)

**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

**MATERIALS:** Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs of the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

**FASTENERS FOR ALUMINUM TRUSSES:** All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

**U-BOLTS AND EYEBOLTS:** U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

**GALVANIZING:** All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

**ANCHOR RODS:** Shall conform to ASTM F1554 Gr. 105.

**CONCRETE SURFACES:** All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

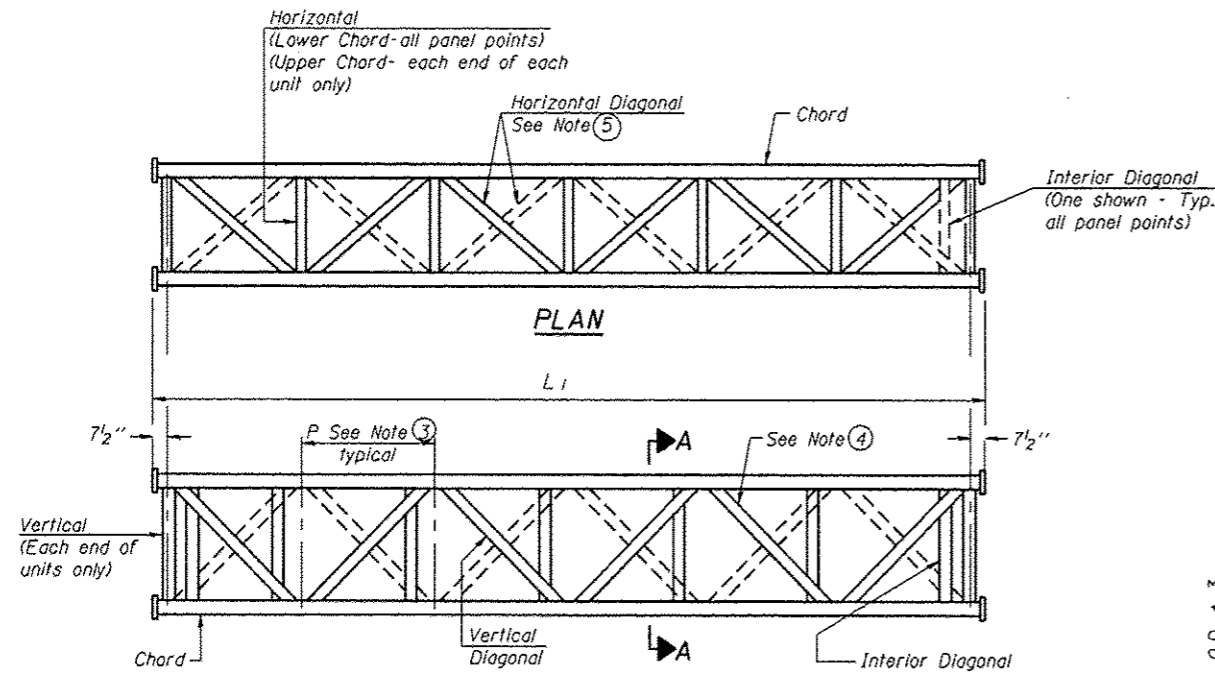
**REINFORCEMENT BARS:** Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

**FOUNDATIONS:** The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

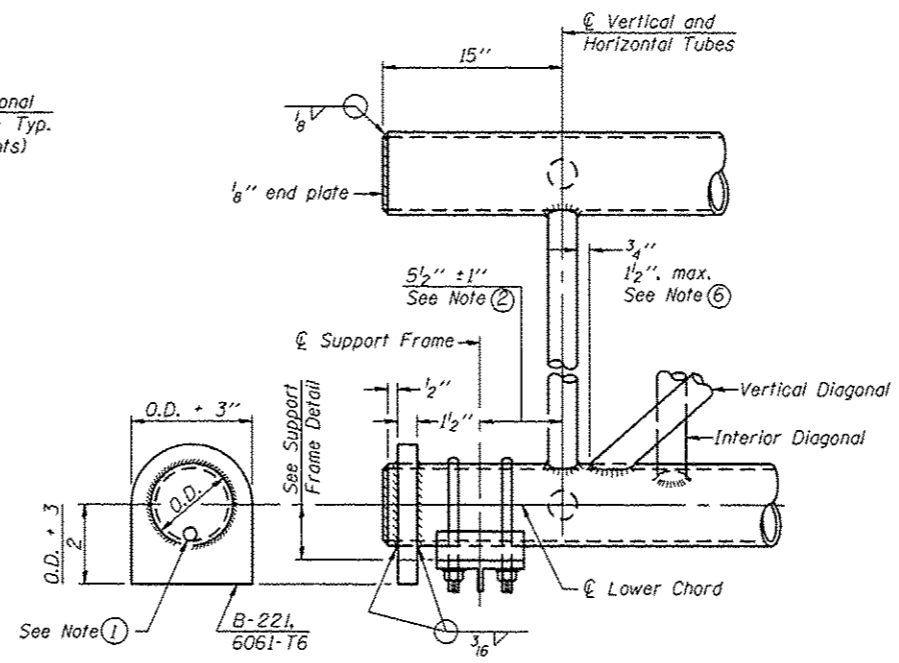
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	

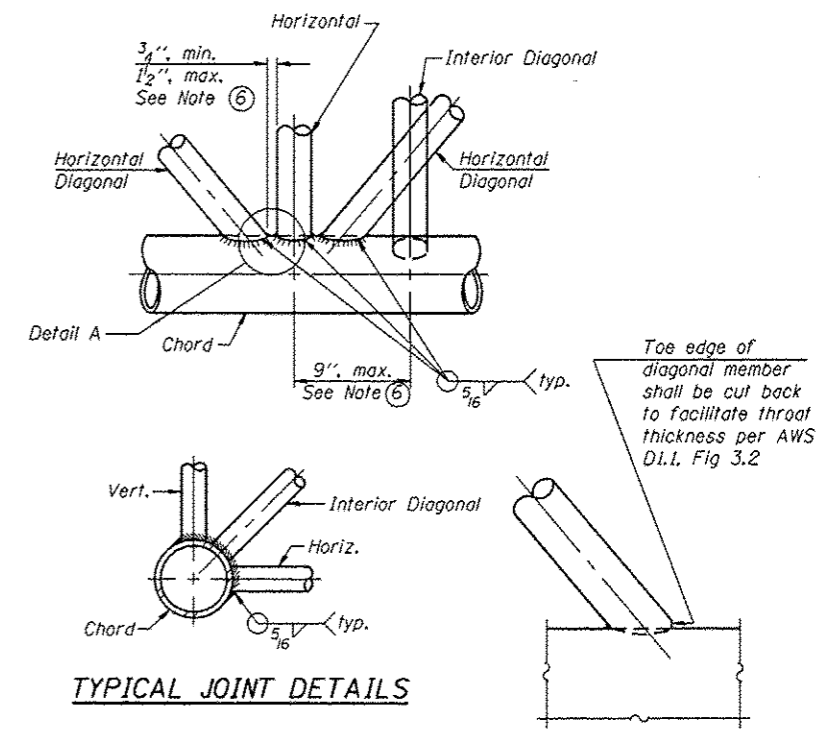
\* D-5 OVD SIG STR REPL 2013-09



**ELEVATION  
TYPICAL INTERIOR UNIT**  
Even number of panels/interior unit required.

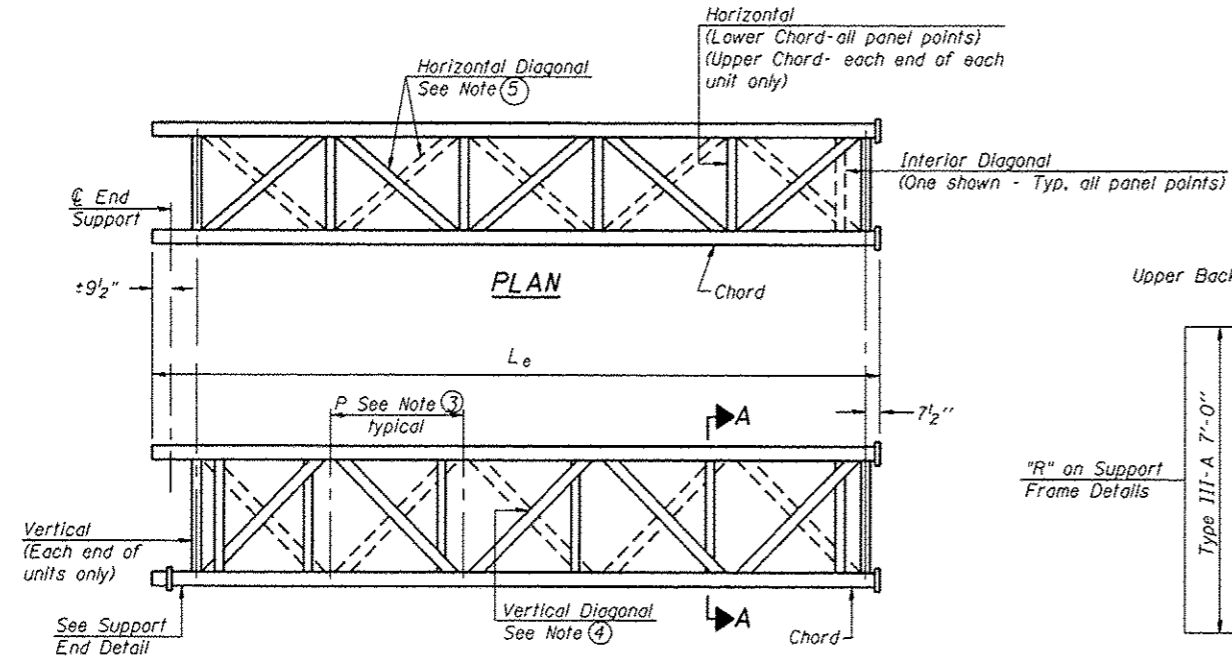


**SUPPORT END DETAIL FOR EXTERIOR UNIT**

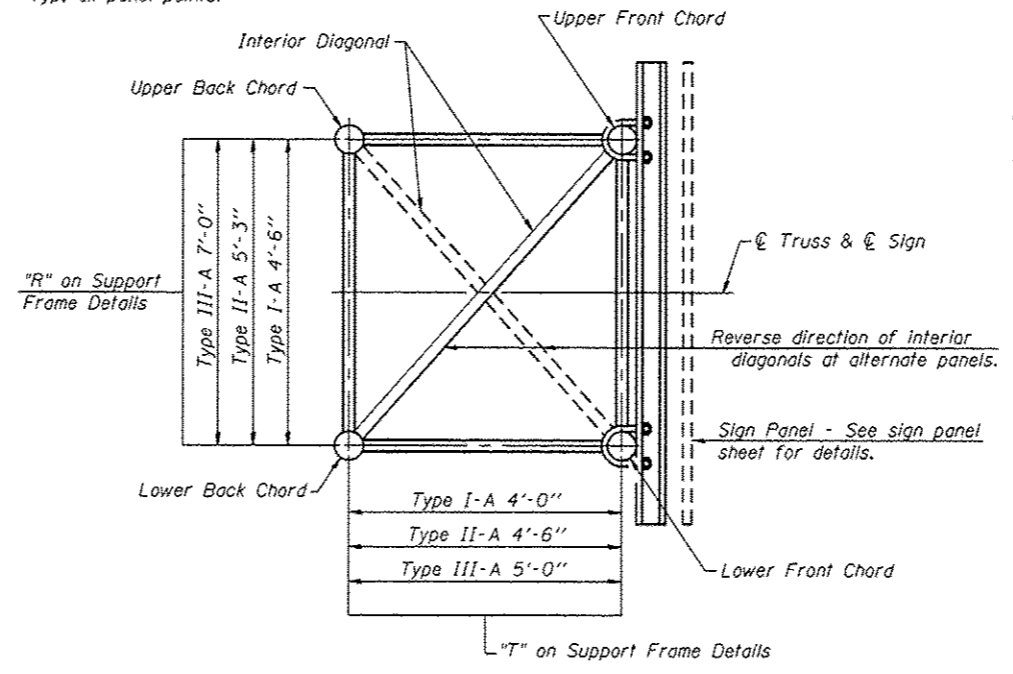


**TYPICAL JOINT DETAILS**

**DETAIL A**



**ELEVATION  
TYPICAL EXTERIOR UNIT**  
Even or odd number of panels/exterior units allowed.



**SECTION A-A**

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" φ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

OS-A-2

6-1-12

• D-5 OVD SIN STR REPL 2013-09

FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -
c:\pr-work\pvdos\bucklesjj\d0388231\094222-Sht-Sign-Structure-Details.dgn		DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.		CHECKED -	REVISED -
Default	PLOT DATE = 8/22/2012	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

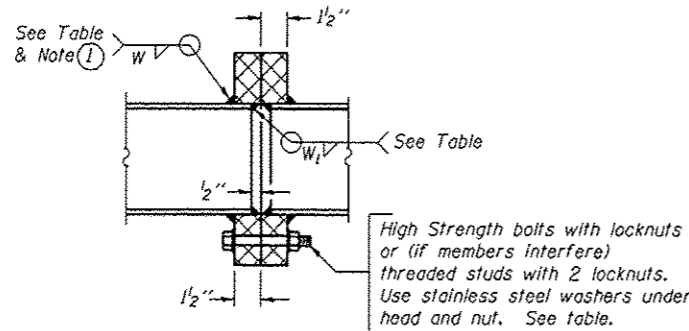
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS  
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	-	CHAMPAIGN	50	38
			CONTRACT NO. 46222	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

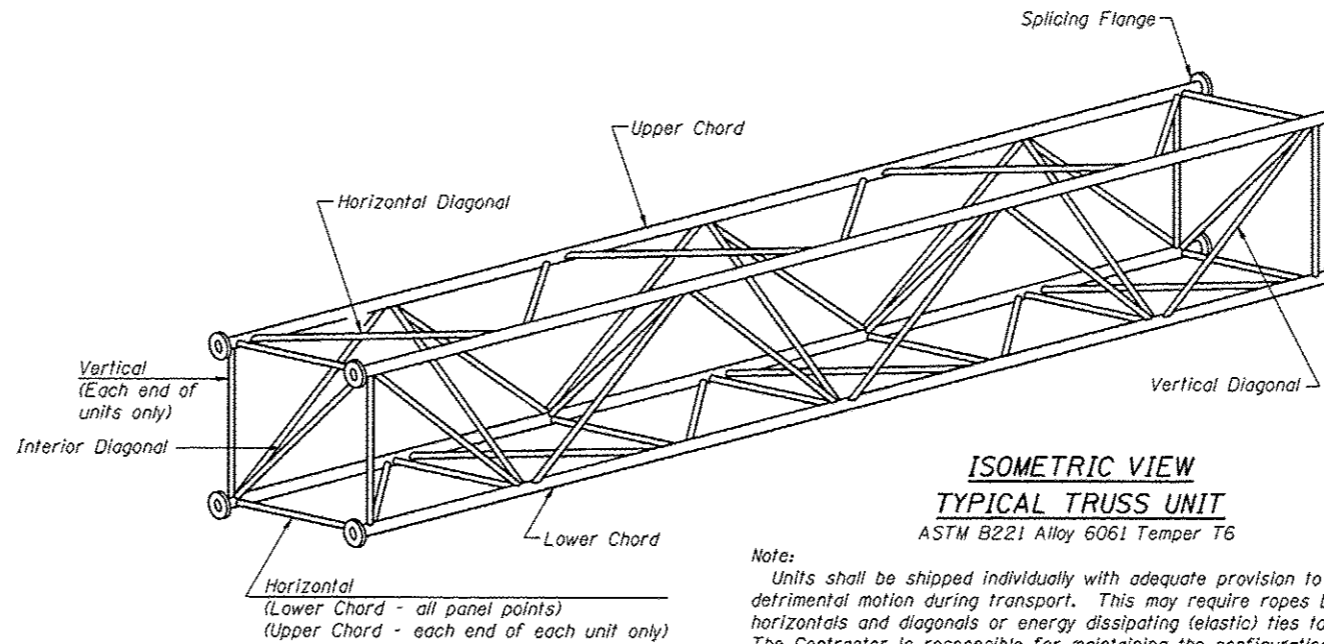
**TRUSS UNIT TABLE**

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals: Horizontals: Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L <sub>e</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W <sub>1</sub>		
5-01 5S 010 1074 R180.40	1134+50	I-A	6	28'-9"	4'-5 <sup>3</sup> / <sub>4</sub> "	1	6	28'-1 <sup>1</sup> / <sub>2</sub> "	4'-5 <sup>3</sup> / <sub>4</sub> "	5"	5/16"	2 <sup>1</sup> / <sub>2</sub> "	5/16"	2 <sup>1</sup> / <sub>2</sub> "	6	7/8"	5/16"	1/4"	8 <sup>3</sup> / <sub>4</sub> "	11 <sup>3</sup> / <sub>4</sub> "
5-02 5S 010 1074 R181.19	1174+50	I-A	8	39'-2 <sup>1</sup> / <sub>2</sub> "	4'-8"	-	-	-	-	5"	5/16"	2 <sup>1</sup> / <sub>2</sub> "	5/16"	2"	6	7/8"	5/16"	1/4"	8 <sup>3</sup> / <sub>4</sub> "	11 <sup>3</sup> / <sub>4</sub> "
5-04 5S 010 1074 R182.43	1243+75	I-A	6	31'-1 <sup>1</sup> / <sub>2</sub> "	4'-10 <sup>1</sup> / <sub>2</sub> "	1	6	30'-6"	4'-10 <sup>1</sup> / <sub>2</sub> "	5 <sup>1</sup> / <sub>2</sub> "	5/16"	2 <sup>1</sup> / <sub>2</sub> "	5/16"	2 <sup>3</sup> / <sub>4</sub> "	6	7/8"	3/8"	1/4"	9 <sup>1</sup> / <sub>4</sub> "	12 <sup>1</sup> / <sub>4</sub> "
5-07 5S 010 1074 L182.76	1265+75	I-A	6	29'-1 <sup>1</sup> / <sub>2</sub> "	4'-6 <sup>1</sup> / <sub>2</sub> "	1	6	28'-6"	4'-6 <sup>1</sup> / <sub>2</sub> "	5"	5/16"	2 <sup>1</sup> / <sub>2</sub> "	5/16"	2 <sup>1</sup> / <sub>2</sub> "	6	7/8"	5/16"	1/4"	8 <sup>3</sup> / <sub>4</sub> "	11 <sup>3</sup> / <sub>4</sub> "
5-08 5S 010 1074 L181.53	1198+06	I-A	6	28'-9"	4'-5 <sup>3</sup> / <sub>4</sub> "	1	6	28'-1 <sup>1</sup> / <sub>2</sub> "	4'-5 <sup>3</sup> / <sub>4</sub> "	5"	5/16"	2 <sup>1</sup> / <sub>2</sub> "	5/16"	2 <sup>1</sup> / <sub>2</sub> "	6	7/8"	5/16"	1/4"	8 <sup>3</sup> / <sub>4</sub> "	11 <sup>3</sup> / <sub>4</sub> "
5-09 5S 010 1074 L180.76	1160+50	I-A	5	26'-9 <sup>1</sup> / <sub>4</sub> "	4'-11 <sup>3</sup> / <sub>4</sub> "	1	6	31'-1 <sup>1</sup> / <sub>2</sub> "	4'-11 <sup>3</sup> / <sub>4</sub> "	5"	5/16"	2 <sup>1</sup> / <sub>2</sub> "	5/16"	2 <sup>1</sup> / <sub>2</sub> "	6	7/8"	5/16"	1/4"	8 <sup>3</sup> / <sub>4</sub> "	11 <sup>3</sup> / <sub>4</sub> "



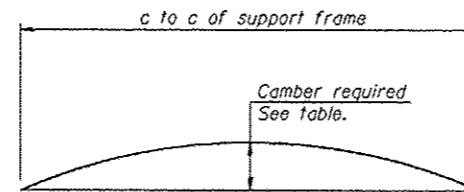
**SECTION B-B**

① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



**ISOMETRIC VIEW  
TYPICAL TRUSS UNIT**

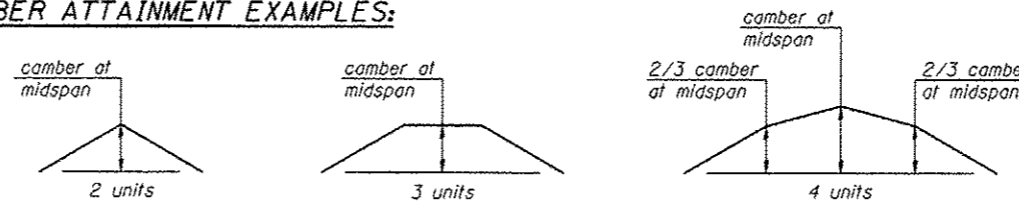
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



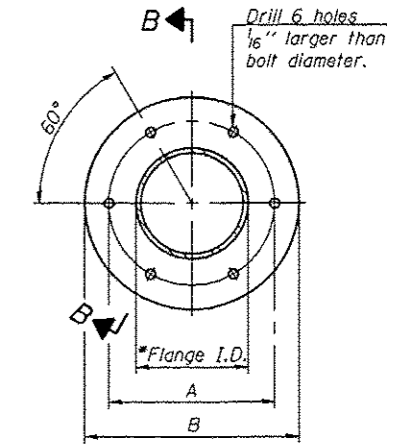
**CAMBER DIAGRAM**

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

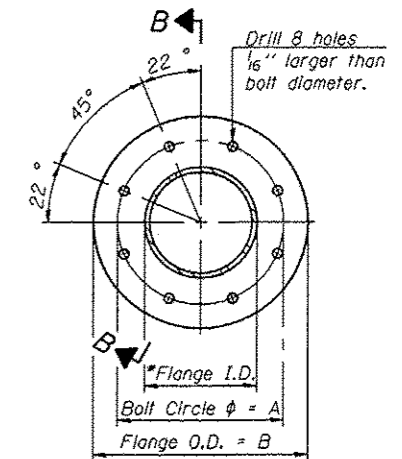
**CAMBER ATTAINMENT EXAMPLES:**



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



**TRUSS TYPES I-A, II-A, & III-A**



**TRUSS TYPES II-A & III-A**

**SPLICING FLANGES**

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651

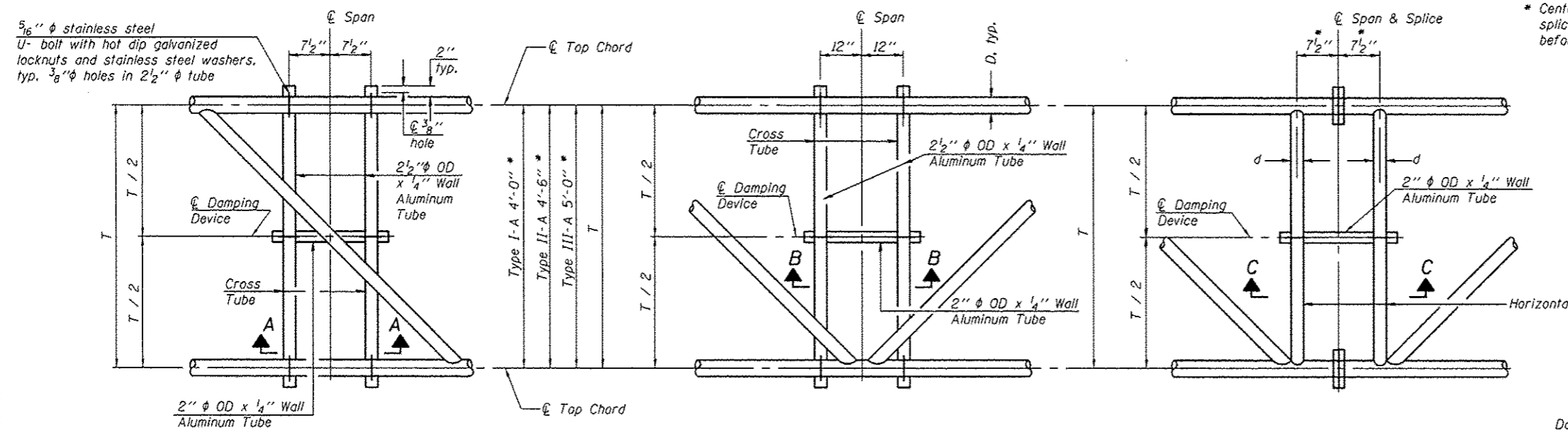
\*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

6-1-12

\* 0-5 OVD SIN STR REPL 2013-09

FILE NAME: c:\p\work\pvidot\bucklesj\48388231\094222-Sign-Structure-Details.dgn	USER NAME: bucklesj	DESIGNED: -	REVISED: -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A</b>	F.A.I. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:	
PLOT SCALE: 40.0000' / in.	CHECKED: -	REVISED: -	74				CHAMPAIGN	50	39		
Default	DATE: -	REVISED: -	SCALE:			SHEET OF SHEETS:	STA. TO STA.:	CONTRACT NO. 46222			
PLOT DATE: 8/22/2012								ILLINOIS FED. AID PROJECT			



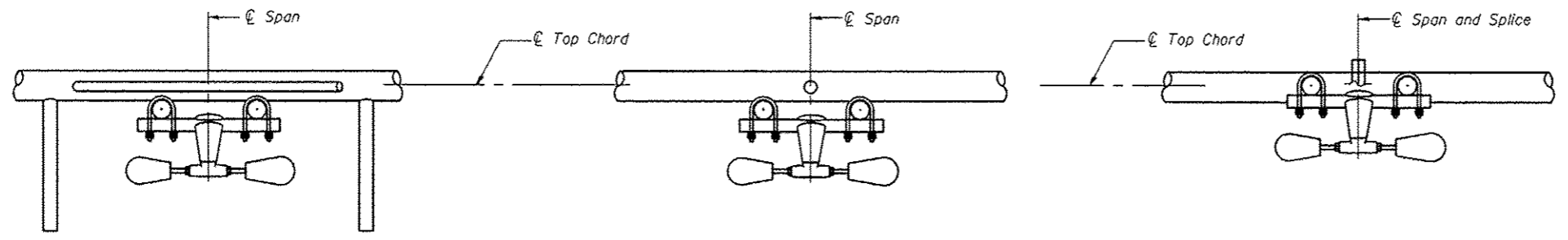
\* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

**PLAN DETAIL "A"**  
Span between Panel Points

**PLAN DETAIL "B"**  
Span at Panel Point

**PLAN DETAIL "C"**  
Span at Chord Splice

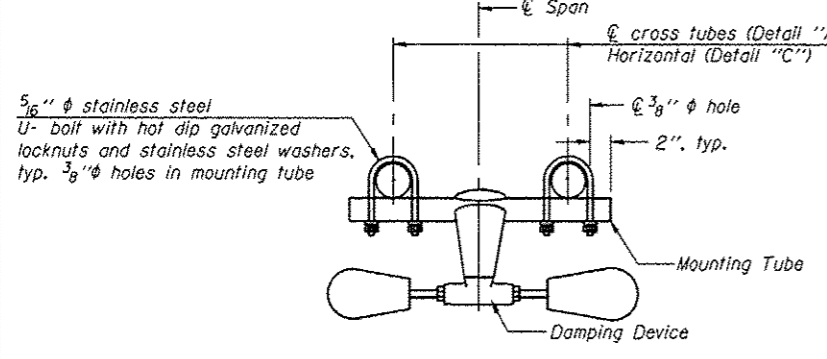
**NOTES**  
 Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...  
 Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



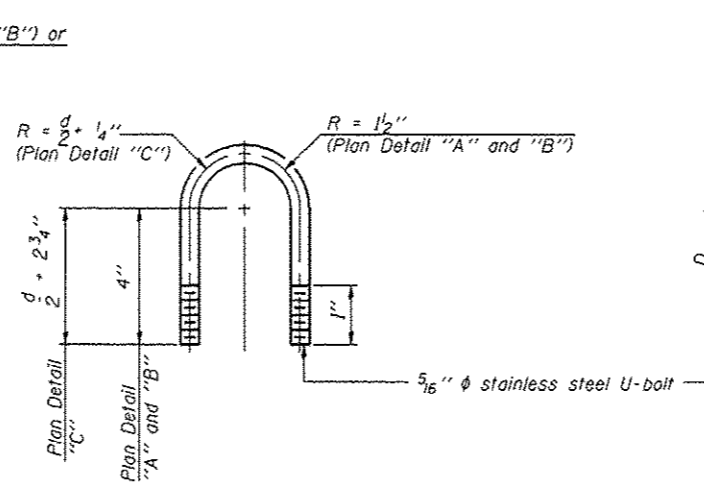
**SECTION A-A**

**SECTION B-B**

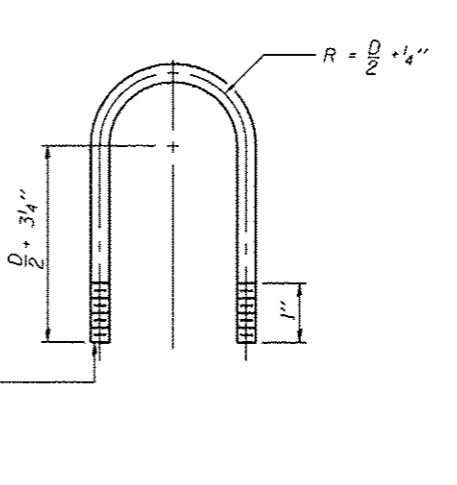
**SECTION C-C**



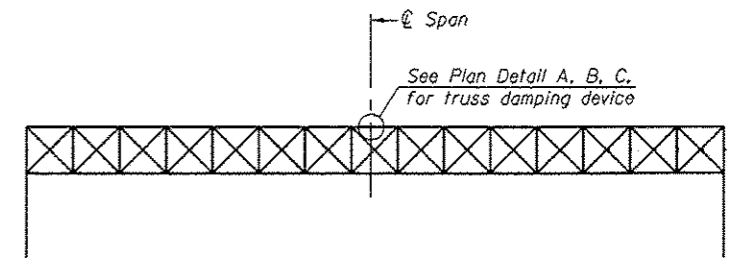
**TRUSS DAMPING DEVICE CONNECTION DETAIL**  
(Typical)



**DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL**  
(Typical)



**TOP CHORD TO CROSS TUBE U-BOLT DETAIL**  
(Typical - Detail "A" and "B")



**ELEVATION**  
Aluminum Overhead Sign Truss

OS-A-D

6-1-12

\* D-5 OVO SIN STR REPL 2013-09

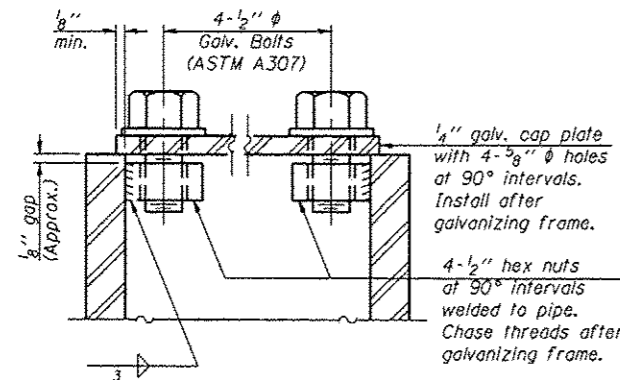
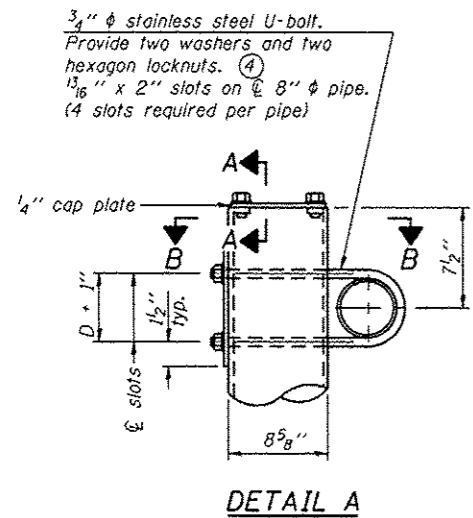
FILE NAME *	USER NAME = bucklesj	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

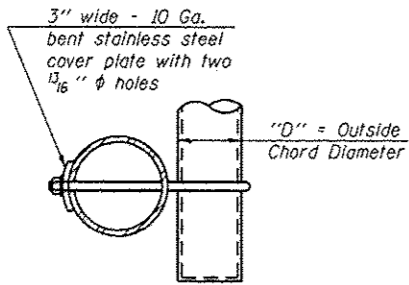
<b>OVERHEAD SIGN STRUCTURE</b>			
<b>DAMPING DEVICE</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T4		CHAMPAIGN	50	40
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46222	

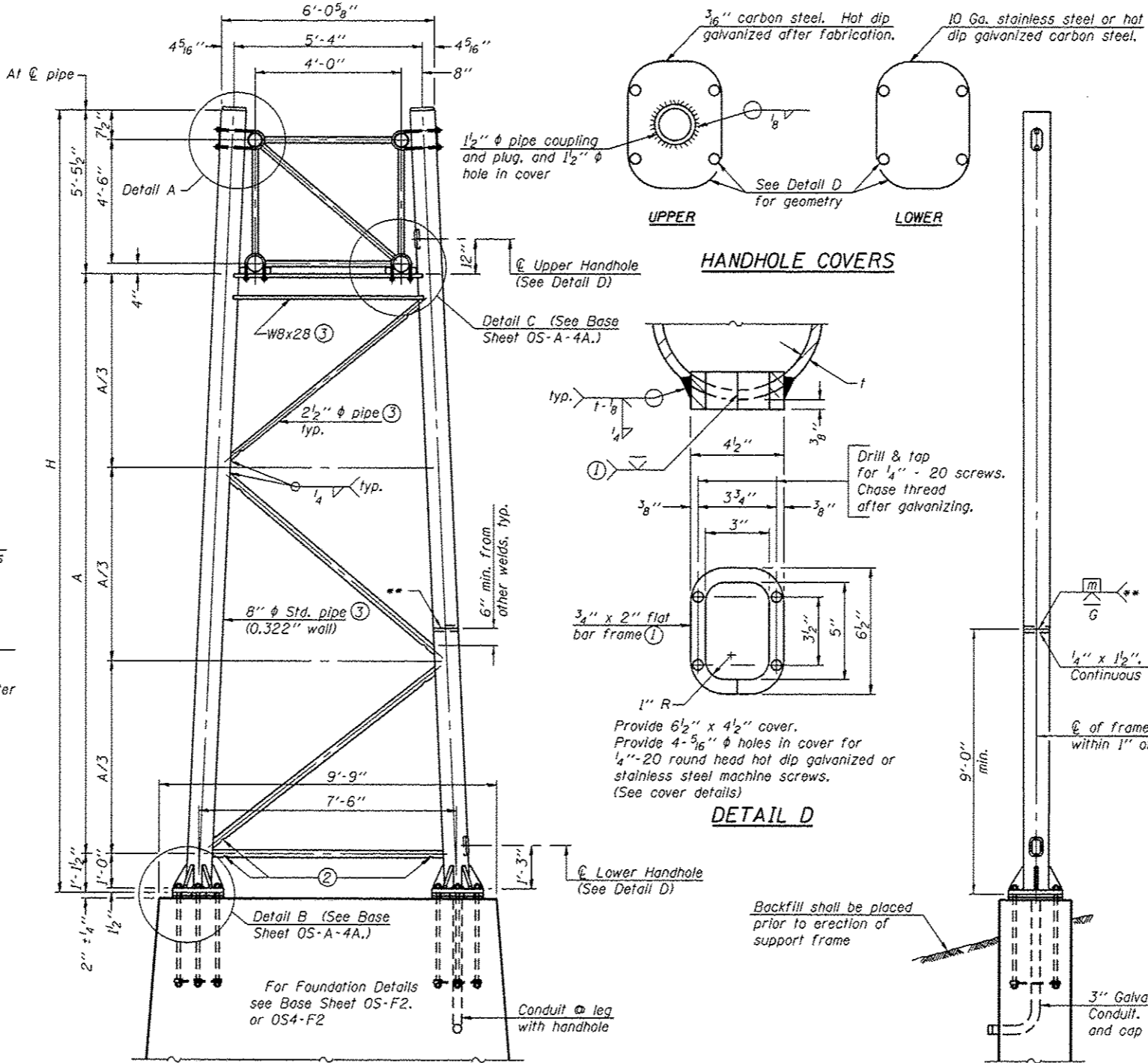




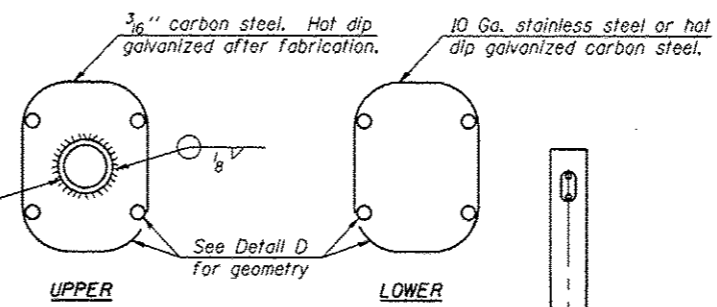
**SECTION A-A**  
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



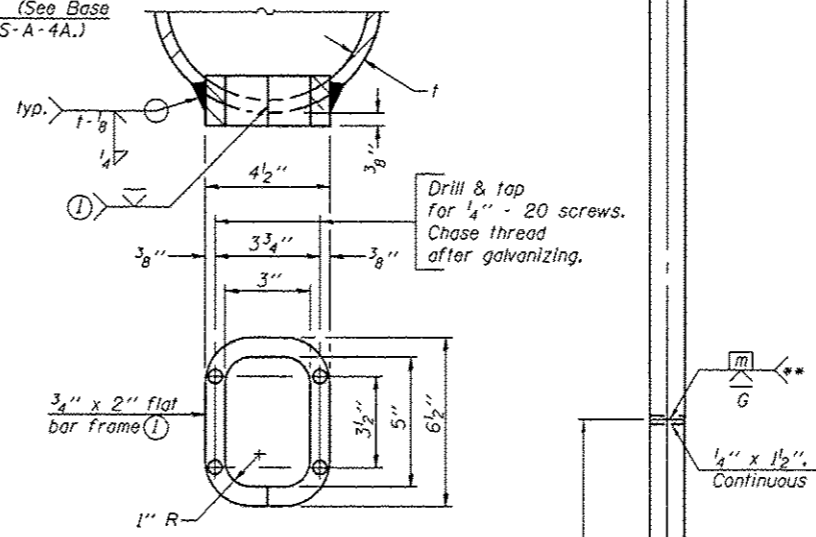
**SECTION B-B**



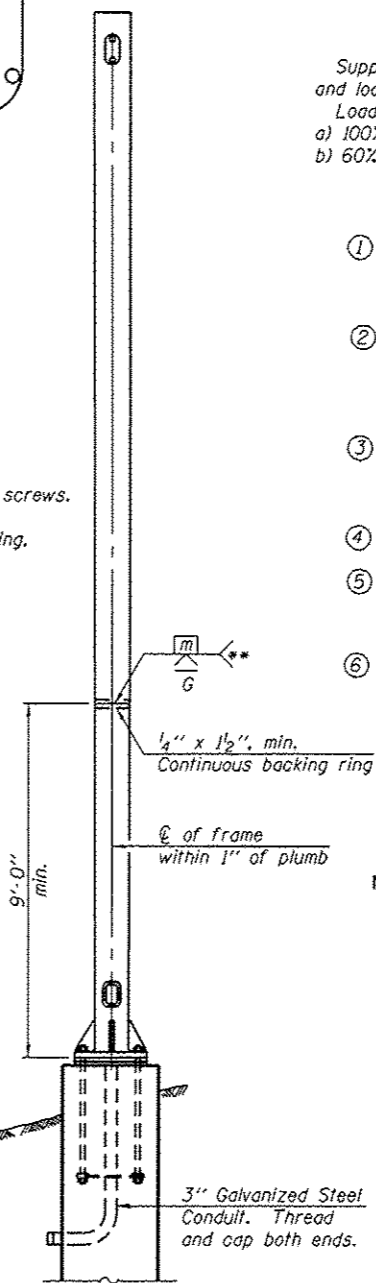
**SIDE ELEVATION**



**HANDHOLE COVERS**



**DETAIL D**



**END ELEVATION**

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μIn or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

NOTES: Location 5-02

1. New End Supports to be installed on existing concrete foundations and existing anchor bolts. Contractor shall furnish and install new anchor rod locknuts, leveling nuts, and washers. Anchor rod nuts and washers shall be galvanized per Article 1094.02, Article 1006.09, and AASHTO M232.
2. The Contractor shall field verify the existing end support dimensions and the existing anchor bolt dimensions to verify the dimensions provided in the plans prior to fabrication of the new end supports.
3. Removing all grout between the base plate and the foundation, cleaning and painting the exposed anchor bolts, and installing a stainless steel screen will be paid for under "Overhead Sign Support Grout Repair".

**8" Ø PIPE TRUSS SUPPORT FRAME**

\*\* One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		H ⑥	A
		Left	Right		
5-02	5S 010 1074 R181.19	North	South	27'-7"	21'-0"

OS-A-4

6-1-12

FILE NAME =	USER NAME = buchlejj	DESIGNED -	REVISED -
c:\pwork\pedit\buchlejj\d0308231\054222-Sht-Str-Structure-Details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

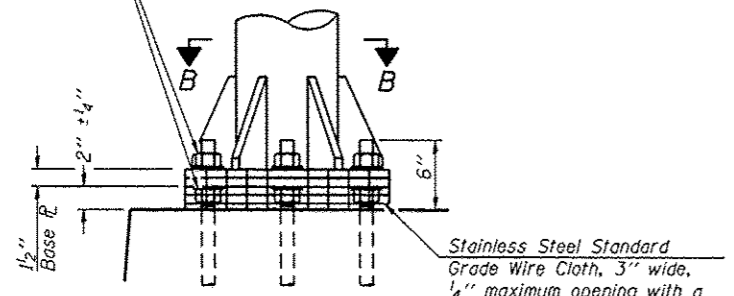
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS**

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	*	CHAMPAIGN	50	41
CONTRACT NO. 46222				
ILLINOIS FED. AID PROJECT				

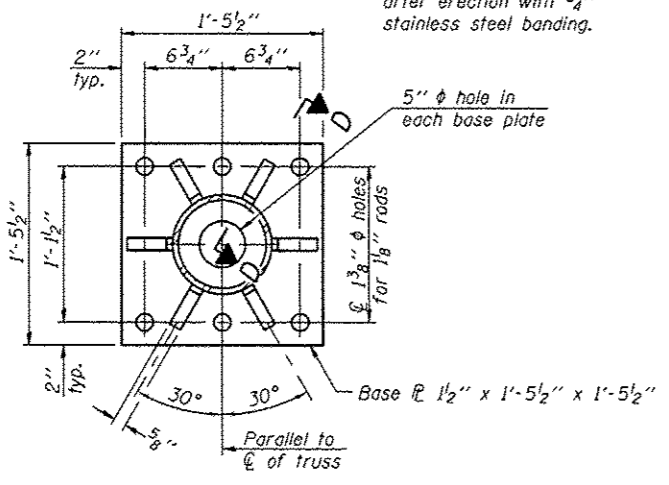
\* D-5 QVD SIN STR REPL 2013-09

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

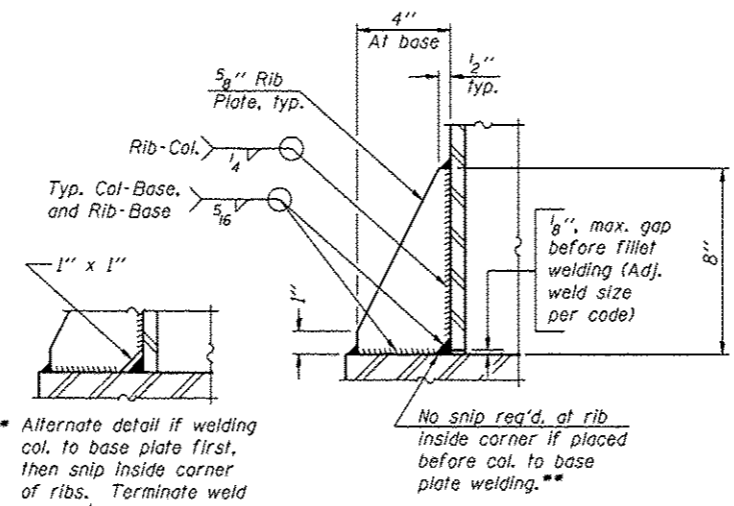


**DETAIL B**

Ribs shall be cut to fit slope of pipe.  
Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



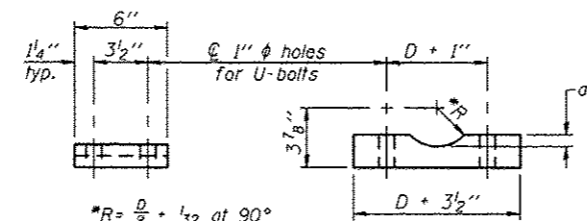
**SECTION B-B**



**SECTION D-D**

\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

No snip req'd. at rib inside corner if placed before col. to base plate welding.



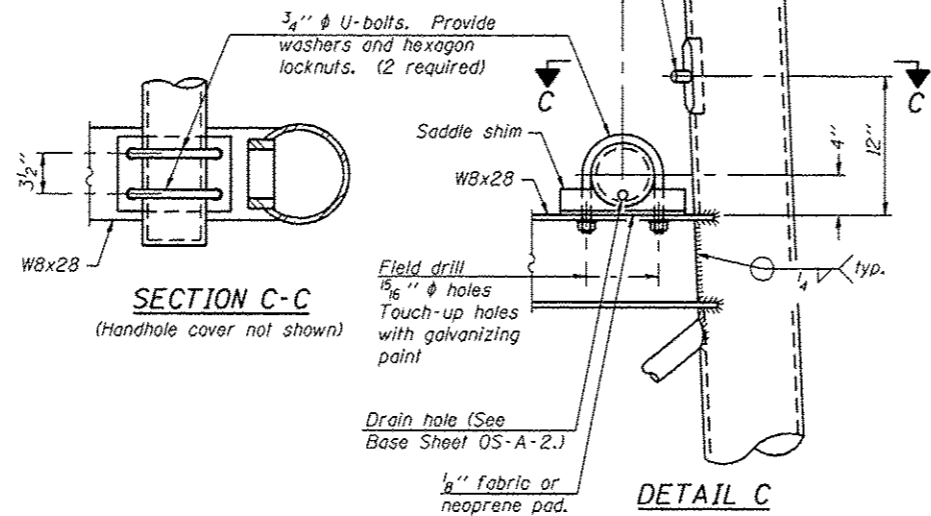
**SADDLE SHIM DETAIL**

ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"

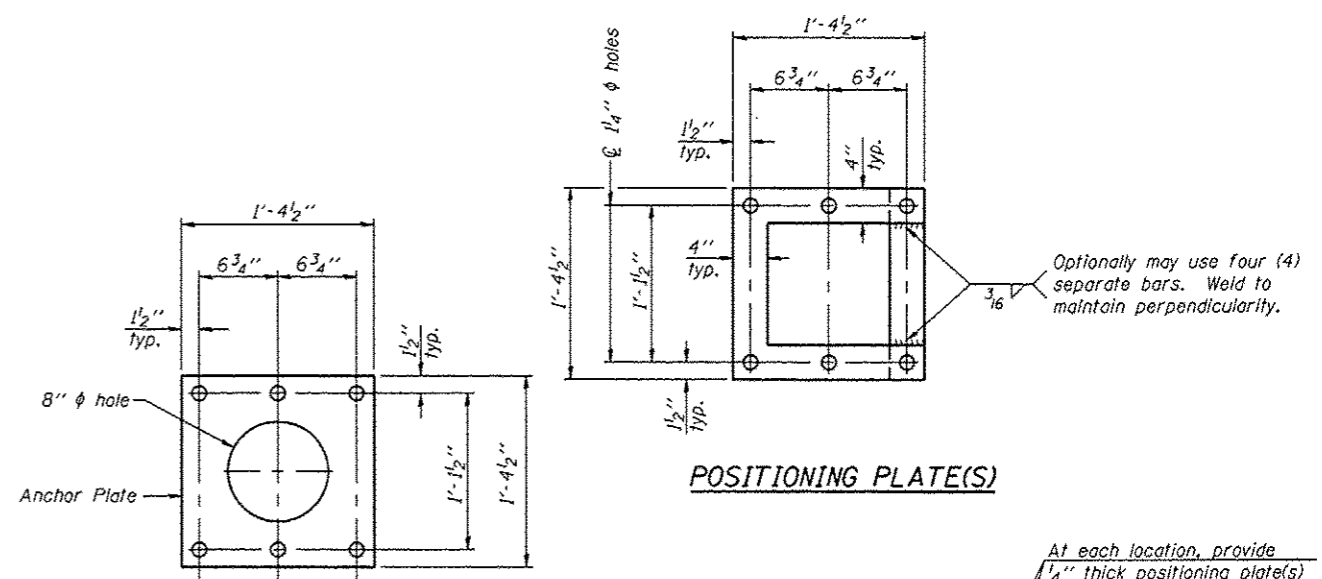
**NOTES:** Location 5-02

1. New End Supports to be installed on existing concrete foundations and existing anchor bolts. Contractor shall furnish and install new anchor rod locknuts, leveling nuts, and washers. Anchor rod nuts and washers shall be galvanized per Article 1094.02, Article 1006.09, and AASHTO M232.
2. The Contractor shall field verify the existing end support dimensions and the existing anchor bolt dimensions to verify the dimensions provided in the plans prior to fabrication of the new end supports.
3. Removing all grout between the base plate and the foundation, cleaning and painting the exposed anchor bolts, and installing a stainless steel screen will be paid for under "Overhead Sign Support Grout Repair".



**SECTION C-C**

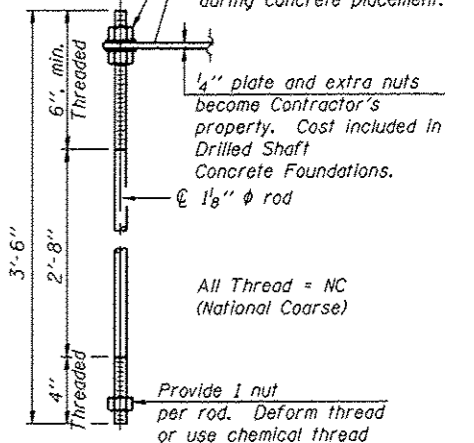
**DETAIL C**



**ANCHOR ROD DETAIL**  
Spread Footing Foundation

**POSITIONING PLATE(S)**

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



**ANCHOR ROD DETAIL**  
Drilled Shaft Foundation

All Thread = NC (National Coarse)

All Thread = NC (National Coarse)

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

**RE-USING EXISTING ANCHOR RODS - INFORMATION ONLY**

**TYPE I-A TRUSS**  
8" φ PIPE SUPPORT FRAME DETAILS

OS-A-4A

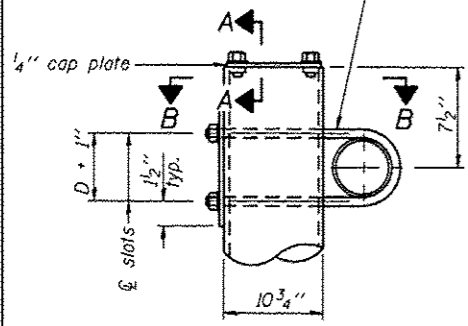
6-1-12

D-5 OVD SIN STR REPL 2013-09

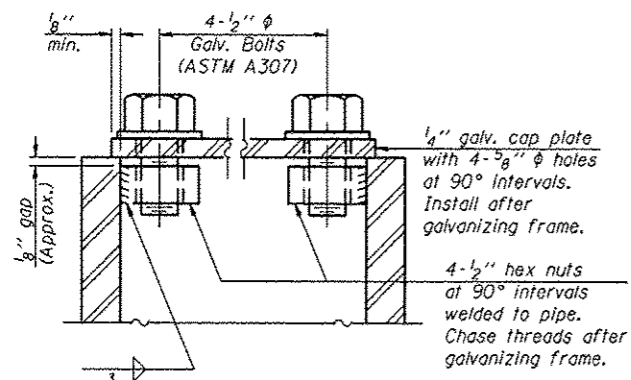
FILE NAME =	USER NAME = bucklesj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES SUPPORT FRAME DETAILS - ALUMINUM TRUSS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\bucljesj\d0389231\054222-Sht-Sign-Structure-Details.dgn	222-Sht-Sign-Structure-Details.dgn	DRAWN -	REVISED -			74		CHAMPAIGN	50	42
PLOT SCALE = 48,0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 46222				
PLOT DATE = 8/22/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

**NON STANDARD DESIGN**

3/4" φ stainless steel U-bolt.  
Provide two washers and two hexagon locknuts. (4)  
1 1/16" x 2" slots on 10" φ pipe.  
(4 slots required per pipe)

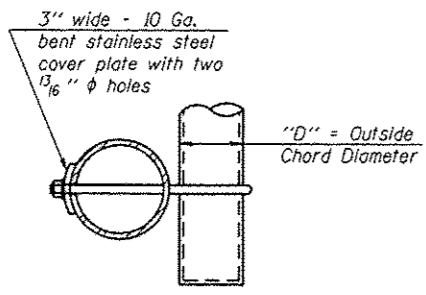


**DETAIL A**

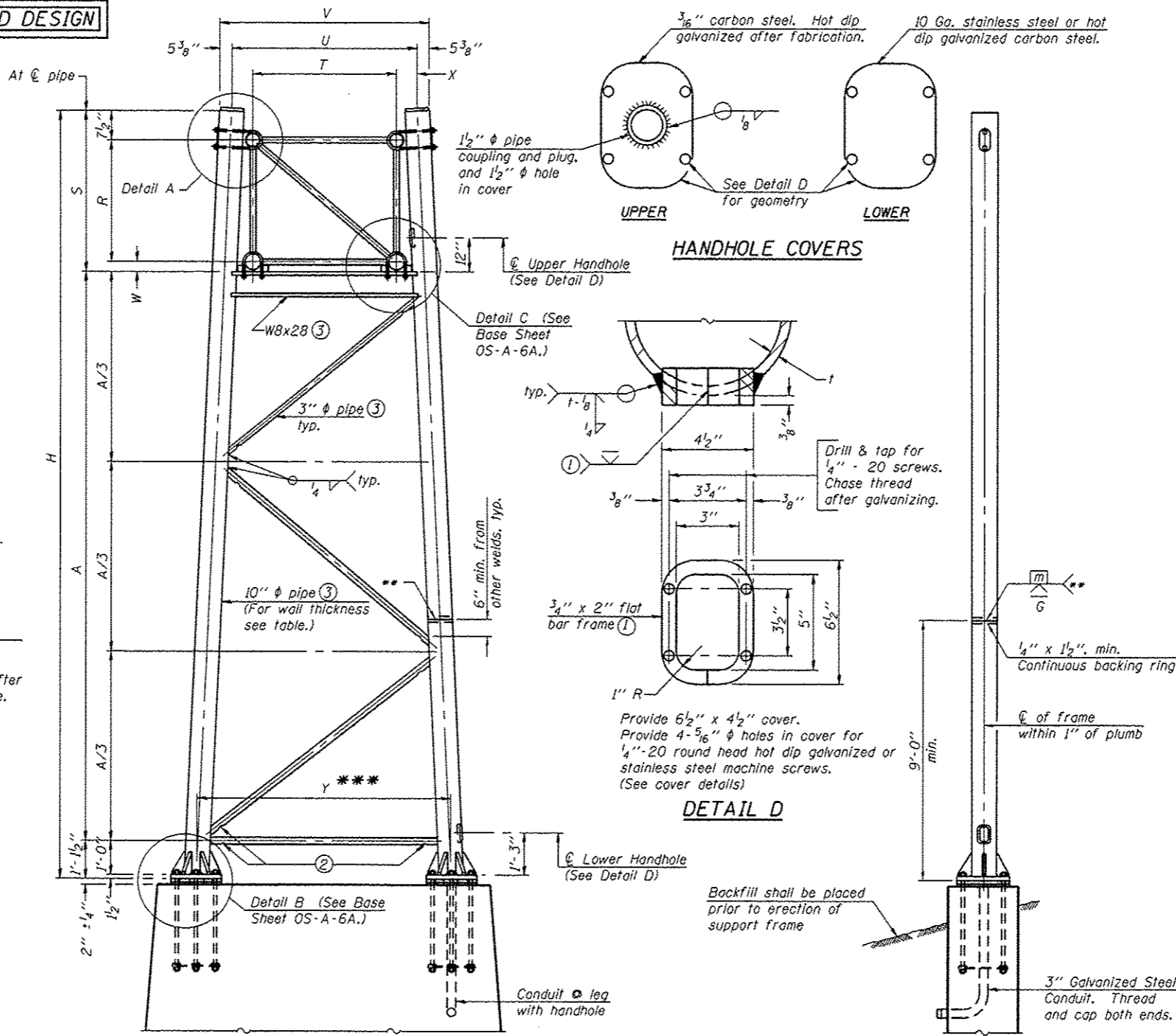


**SECTION A-A**

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



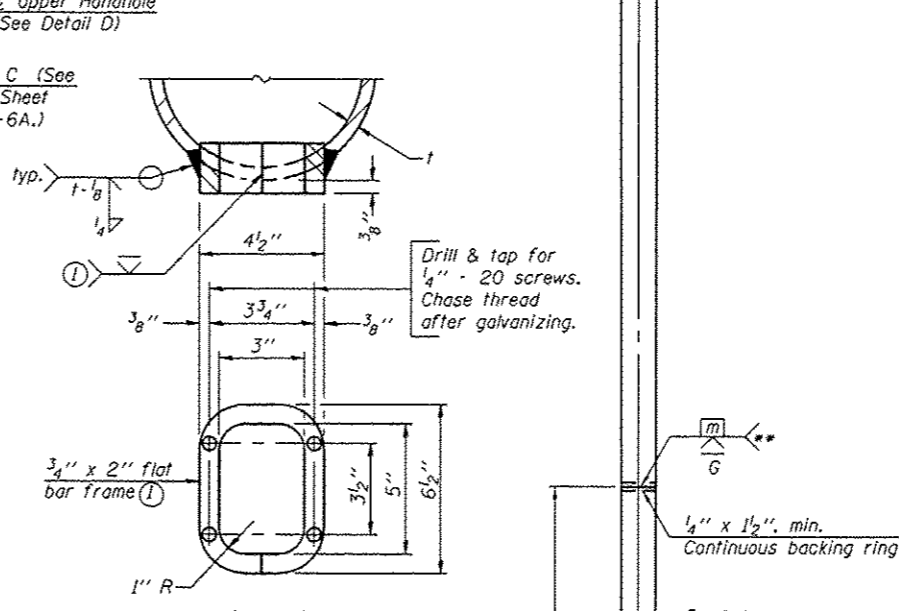
**SECTION B-B**



For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

**SIDE ELEVATION**

**HANDHOLE COVERS**



**DETAIL D**

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.  
Load combinations checked include deadload plus:  
a) 100% wind normal to sign, 20% parallel to sign  
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

NOTES: Locations 5-01, 5-04, 5-07, 5-08, and 5-09

1. New End Supports to be installed on existing concrete foundations and existing anchor bolts. Contractor shall furnish and install new anchor rod locknuts, leveling nuts, and washers. Anchor rod nuts and washers shall be galvanized per Article 1094.02, Article 1006.09, and AASHTO M232.
2. The Contractor shall field verify the existing end support dimensions and the existing anchor bolt dimensions to verify the "non-standard" dimensions provided in the plans prior to fabrication of the new end supports.
3. Removing all grout between the base plate and the foundation, cleaning and painting the exposed anchor bolts, and installing a stainless steel screen will be paid for under "Overhead Sign Support Grout Repair".

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y ***
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3" ***
II-A ⑤	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

\*\*\* 5-07 5 S 010 1074 L182.76 - LI FDN. Y=8'-3" - RI FDN. Y=8'-1 1/2"  
Non-Standard dimension to match existing foundations

**10" φ PIPE TRUSS SUPPORT FRAME**

One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

**END ELEVATION**

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H ⑥	A
		Left	Right				
5-01 5S 010 1074 R180.40	1134+50	North		I-A	0.279	27'-5 1/2"	20'-10 1/2"
			South				
5-04 5S 010 1074 R182.43	1243+75	North	South	I-A	0.279	27'-7"	21'-0"
5-07 5S 010 1074 L182.76	1265+75	South	North	I-A	0.279	27'-7"	21'-0"
5-08 5S 010 1074 L181.53	1198+06	South		I-A	0.279	27'-4"	20'-9"
			North				
5-09 5S 010 1074 L180.76	1160+50	South		I-A	0.279	27'-7"	21'-0"
			North				

OS-A-6

6-1-12

FILE NAME *	USER NAME *	DESIGNED -	REVISED -
al\px\work\pedit\backles\j\d0380231\054	222-Sht-Sign-Structure-Detail.dgn	DRAWN -	REVISED -
	PLOT SCALE * 48.0000 / in.	CHECKED -	REVISED -
Default	PLOT DATE * 8/22/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

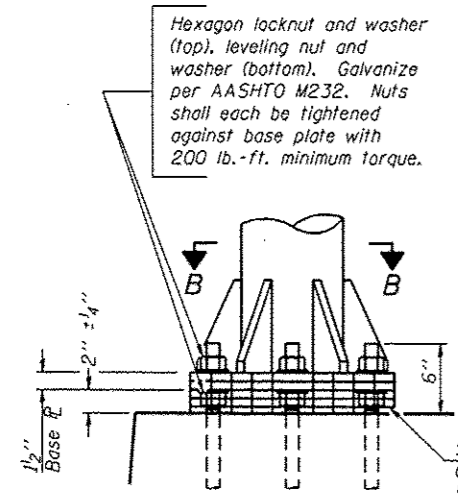
OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME FOR ALUMINUM TRUSS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	43
CONTRACT NO. 46222				
[ILLINOIS] FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

\* D-5 OVD SIN STR REPL 2013-09

**NON STANDARD DESIGN**

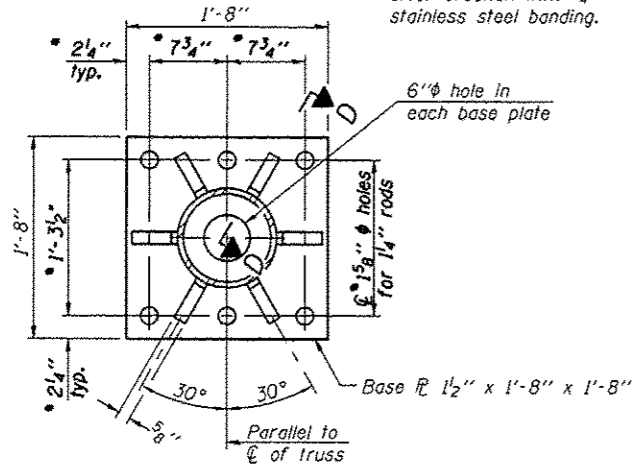


**DETAIL B**

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.

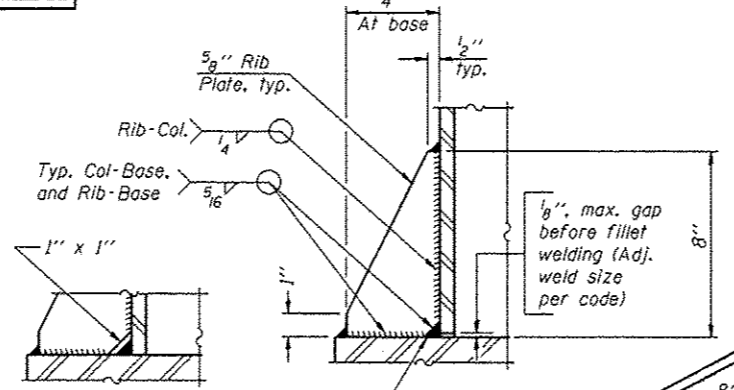
Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



**SECTION B-B**

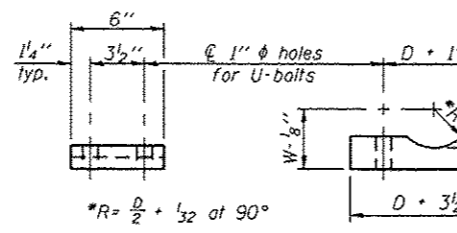
\* Non-Standard dimension to match existing foundations



**SECTION D-D**

\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

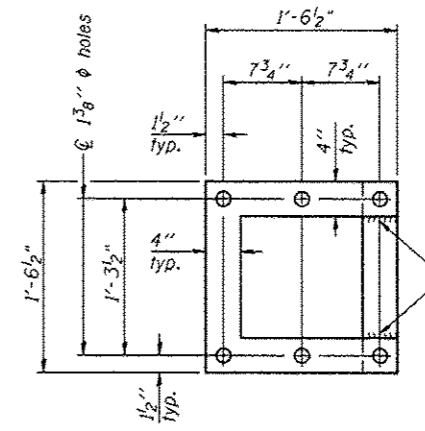
No snip req'd. at rib inside corner if placed before col. to base plate welding.



**SADDLE SHIM DETAIL**

ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

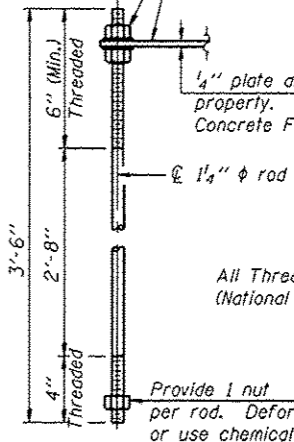
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"
7"	1"



**POSITIONING PLATE(S)**

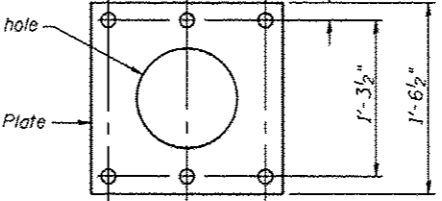
Optionally may use four (4) separate bars. Weld to maintain perpendicularity.

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.

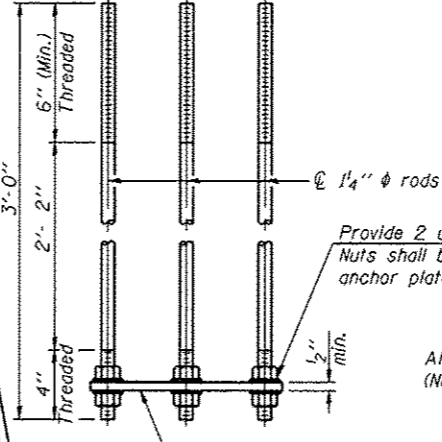


**ANCHOR ROD DETAIL**

Drilled Shaft Foundation



**Anchor Plate**



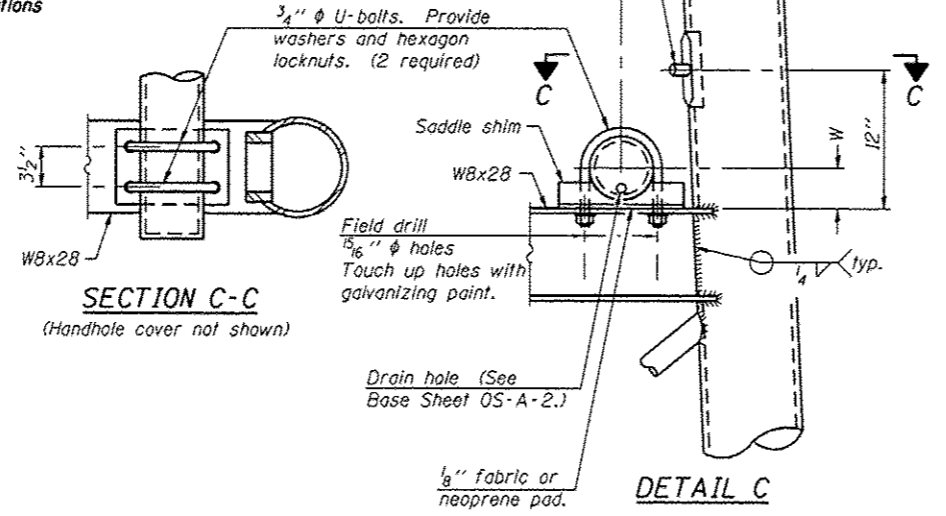
**ANCHOR ROD DETAIL**

Spread Footing Foundation

All Thread = NC (National Coarse)

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

**RE-USING EXISTING ANCHOR RODS - INFORMATION ONLY**



**SECTION C-C**

(Handhole cover not shown)

**DETAIL C**

NOTES: Locations 5-01, 5-04, 5-07, 5-08, and 5-09

1. New End Supports to be installed on existing concrete foundations and existing anchor bolts. Contractor shall furnish and install new anchor rod locknuts, leveling nuts, and washers. Anchor rod nuts and washers shall be galvanized per Article 1094.02, Article 1006.09, and AASHTO M232.
2. The Contractor shall field verify the existing end support dimensions and the existing anchor bolt dimensions to verify the "non-standard" dimensions provided in the plans prior to fabrication of the new end supports.
3. Removing all grout between the base plate and the foundation, cleaning and painting the exposed anchor bolts, and installing a stainless steel screen will be paid for under "Overhead Sign Support Grout Repair".

OS-A-6A

6-1-12

FILE NAME	USER NAME	DESIGNED	REVISED
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		CHECKED	REVISED
		DATE	REVISED

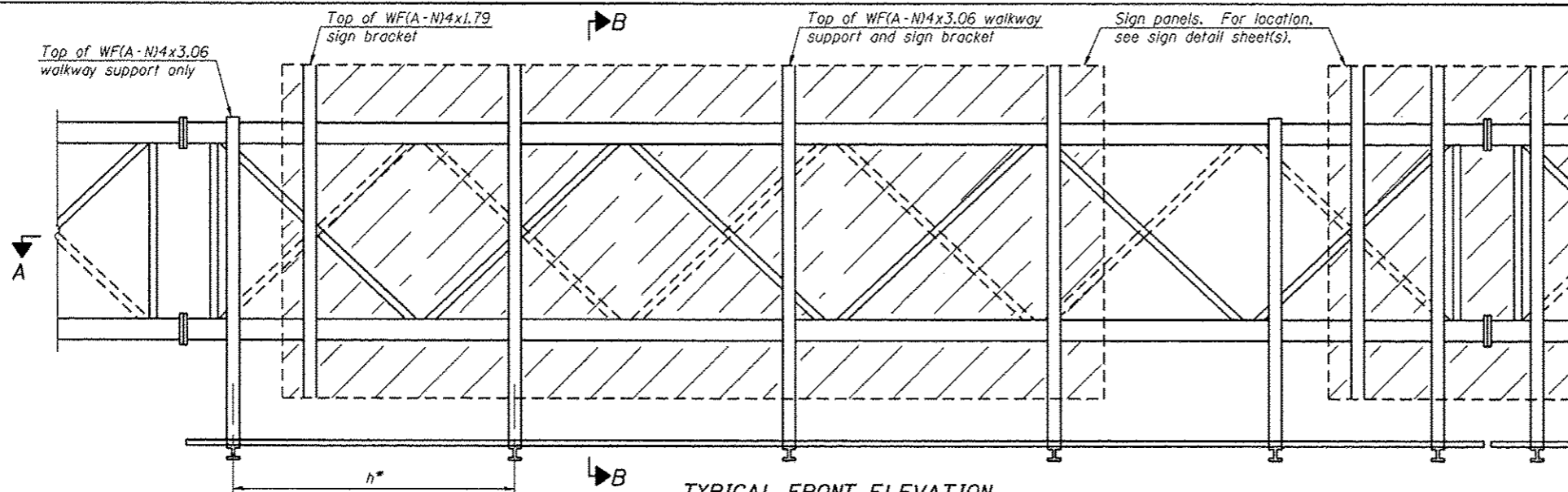
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

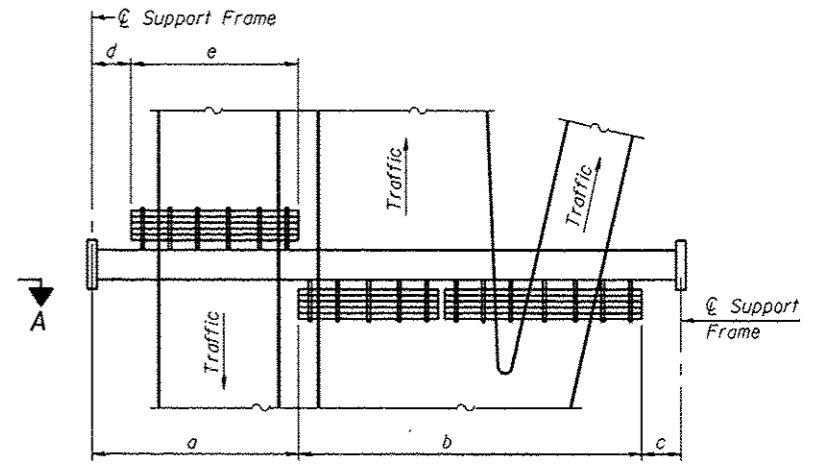
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	44
			CONTRACT NO. 46222	
[ILLINOIS] FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

• D-5 OVD SIN STR REPL 2013-09



**TYPICAL FRONT ELEVATION**  
 With lights and handrail omitted for clarity.  
 For Section B-B, see Base Sheet OS-A-10.



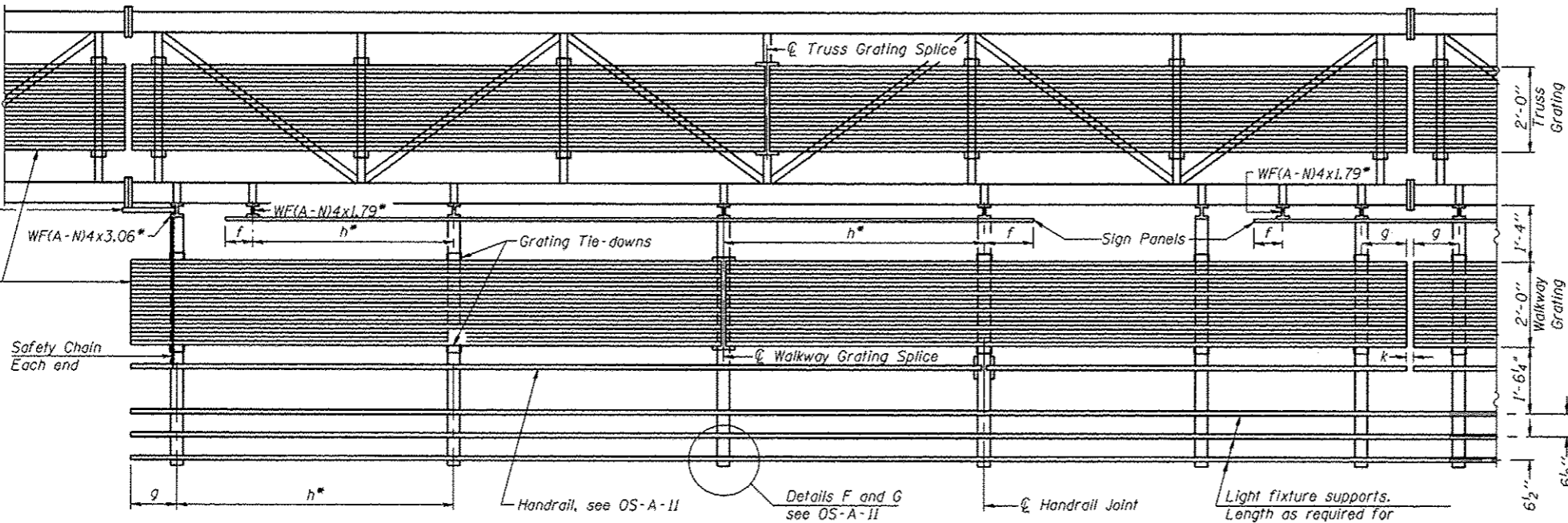
**PLAN WALKWAY AND HANDRAIL SKETCH**  
 (Road plan beneath truss varies)

**BRACKET TABLE**

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
8'-0"	8'-0"	2
14'-0"	14'-0"	3
20'-0"	20'-0"	4
26'-0"	26'-0"	5
32'-0"	32'-0"	6

- Notes:
- Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
  - f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
  - g = 12" maximum, 4" minimum (End of walkway grating to center of nearest support bracket)
  - h = 6'-0" maximum (center to center of sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
  - k = 2" maximum gap between adjacent walkway grating sections and handrail ends

\*\* Alternate angle  
 for safety chain  
 attachment



**SECTION A-A**

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.  
 For Handrail Details see Base Sheet OS-A-11.

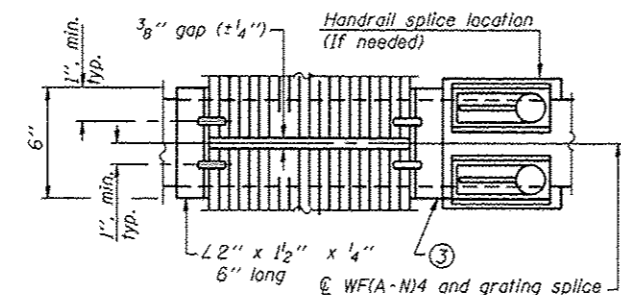
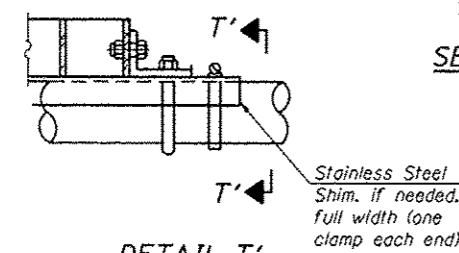
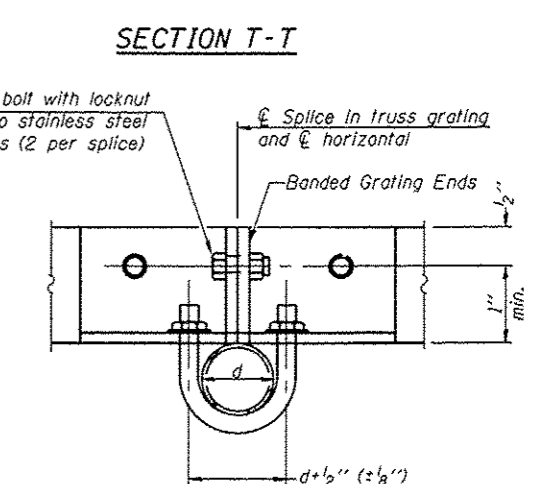
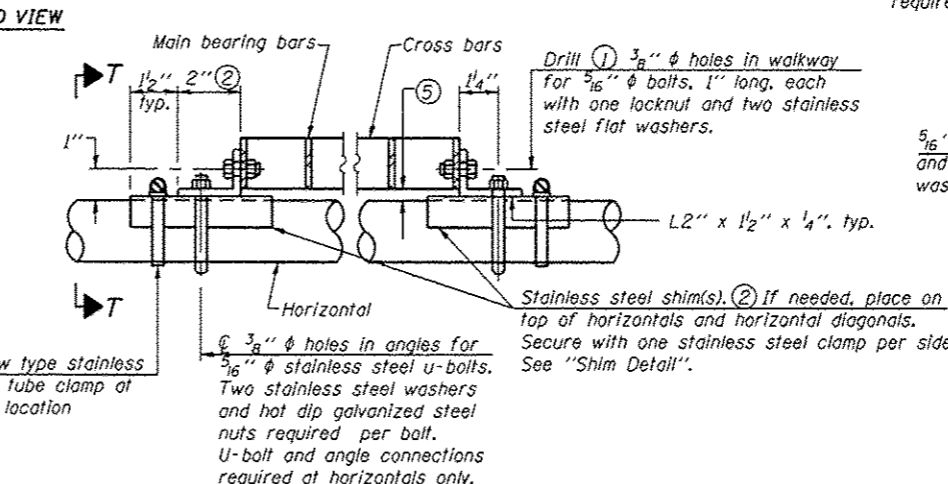
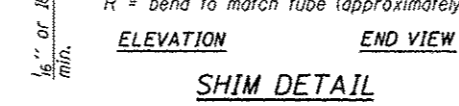
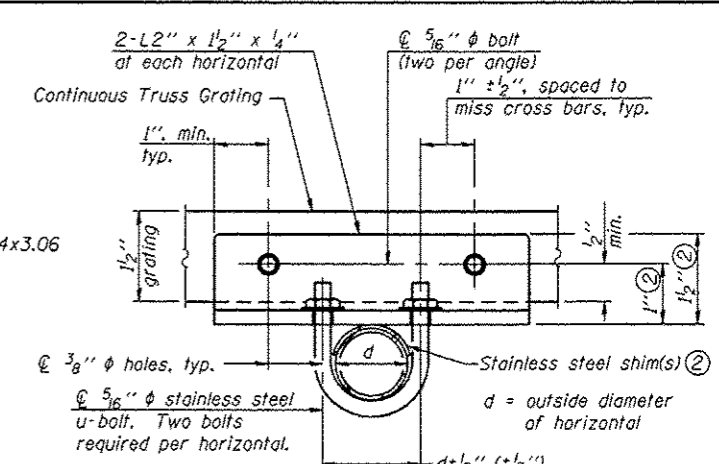
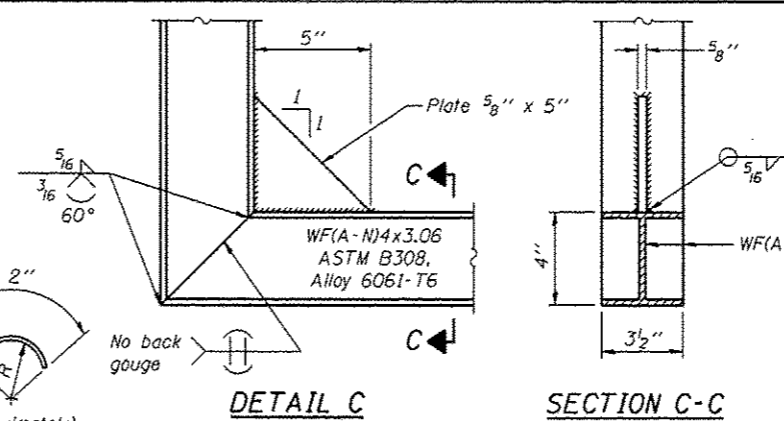
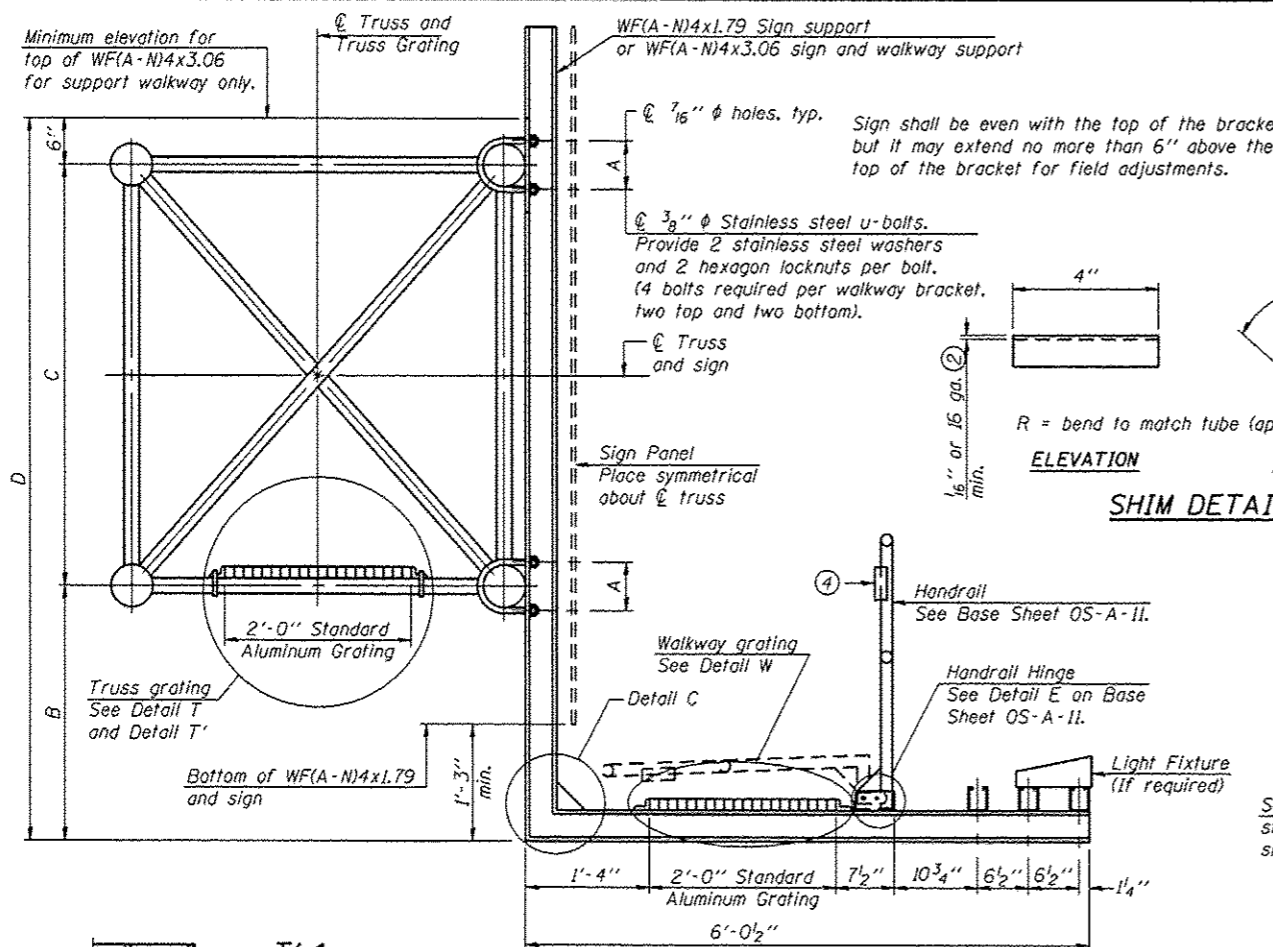
Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
5-01 5S 010 1074 R180.40	1134+50	21'-0"	48'-6"	14'-6"	-	-	48'-6"
5-02 5S 010 1074 R181.19	1174+50	20'-6"	39'-6"	17'-0"	-	-	39'-6"
5-04 5S 010 1074 R182.43	1243+75	15'-0"	58'-0"	18'-0"	-	-	58'-0"
5-07 5S 010 1074 L182.76	1265+75	21'-0"	44'-0"	20'-0"	-	-	44'-0"
5-08 5S 010 1074 L181.53	1198+06	19'-6"	50'-0"	14'-6"	-	-	50'-0"
5-09 5S 010 1074 L180.76	1160+50	8'-0"	50'-0"	25'-0"	-	-	50'-0"

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary ±1/2" based on available standard widths.

OS-A-9

6-1-12



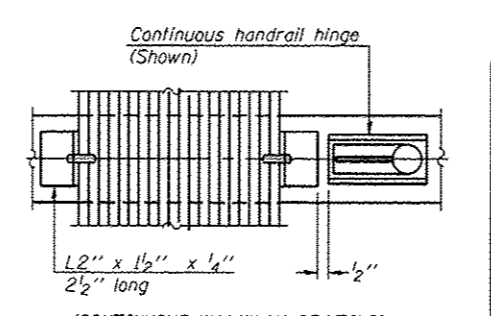
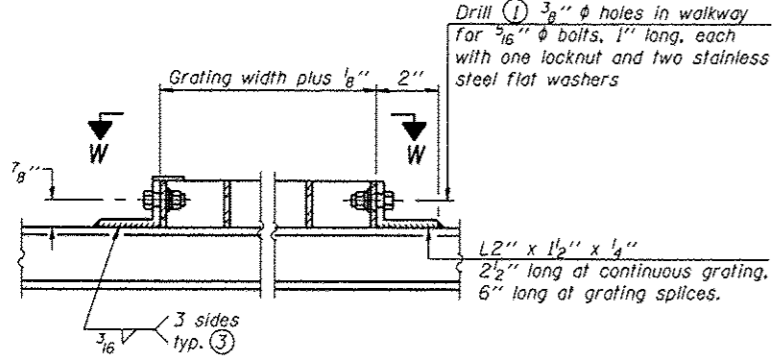
**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

Main Bearing Bars shall be 3/16" x 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.  
 Cross bars shall be 3/16" x 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "4" sections for main bearing bars shall meet the following requirements:  
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- ④ R 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2"; max. to align walkway, allow for camber, etc.
- ⑥ Based on actual height of tallest sign given on OS-A-1.



Structure Number	Station	A	⑥ B	C	⑥ D *
5-01 5S 010 1074 R180.40	1134+50		4'-6"	4'-6"	9'-6"
5-02 5S 010 1074 R181.19	1174+50		4'-9"	4'-6"	& VAR.
5-04 5S 010 1074 R182.43	1243+75		6'-3"	4'-6"	11'-3"
5-07 5S 010 1074 L182.76	1265+75		4'-9"	4'-6"	9'-9"
5-08 5S 010 1074 L181.53	1198+06		4'-9"	4'-6"	9'-9"
5-09 5S 010 1074 L180.76	1160+50		6'-6"	4'-6"	11'-6"

\* See also " Sign Truss Mounting Details " sheets 31-36 for the information needed to determine the variable walkway support and sign support lengths.

OS-A-10

6-1-12

FILE NAME * c:\pr\work\p\dots\buckles\j\08308231\054222-Sht-Sign-Structure-Details.dgn	USER NAME * bucklesj	DESIGNED -	REVISED -
PLOT SCALE * 40.0000 / in.	CHECKED -	DRAWN -	REVISED -
Default	PLOT DATE * 8/22/2012	DATE -	REVISED -

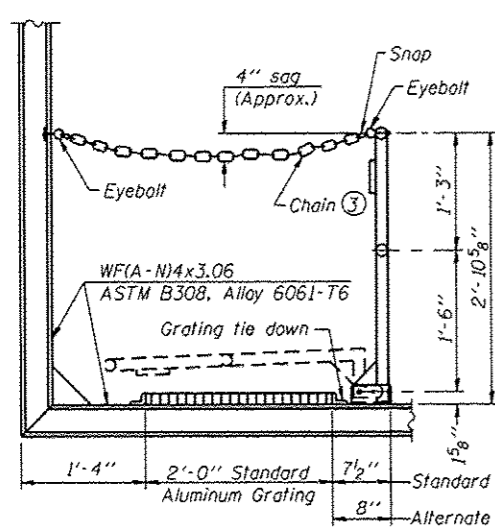
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS

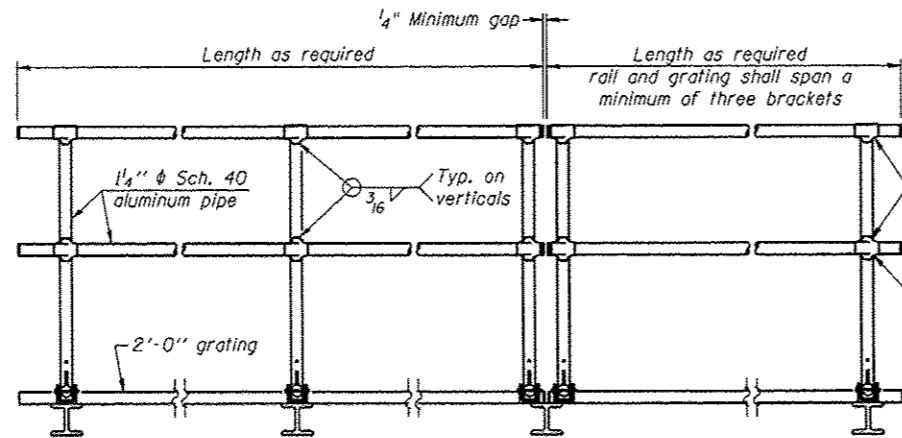
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T4	*	CHAMPAIGN	50	46
CONTRACT NO. 46222				
[ILLINOIS] FED. AID PROJECT				

D-5 OVD SIN STR REPL 2013-09



**SIDE ELEVATION**  
(Showing safety chain w/o sign)



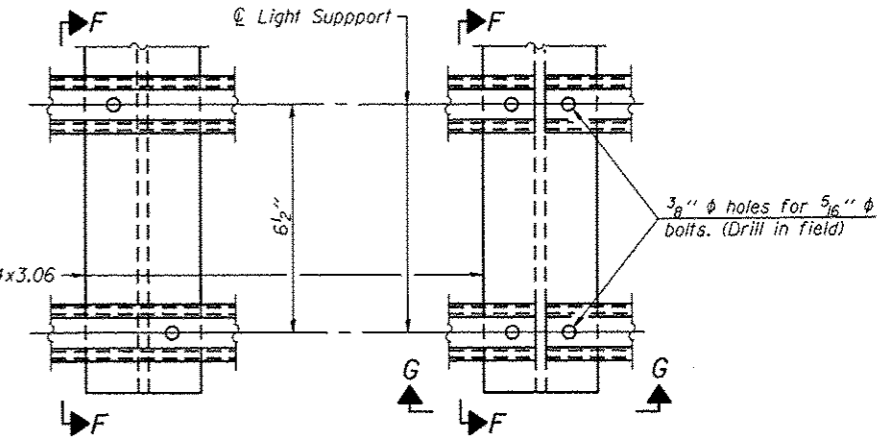
**FRONT ELEVATION**

**HANDRAIL DETAILS**

Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

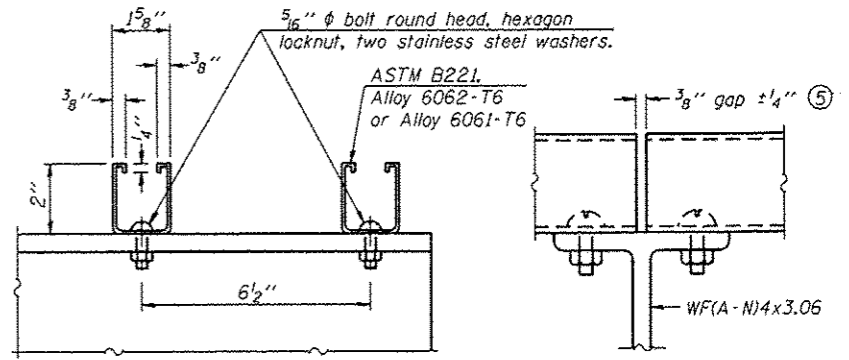
① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)

② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" hole in fitting for 3/8" bolt. Field drill 1/16" hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" holes on top rail at ends only.)



**DETAIL F**

**DETAIL G**

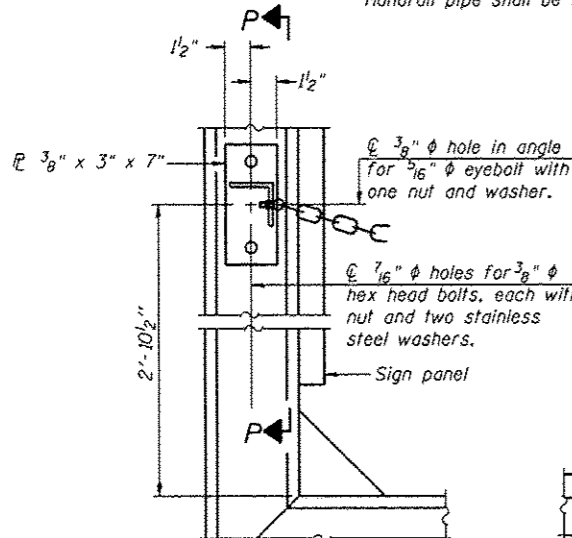


**SECTION F-F**

**SECTION G-G**

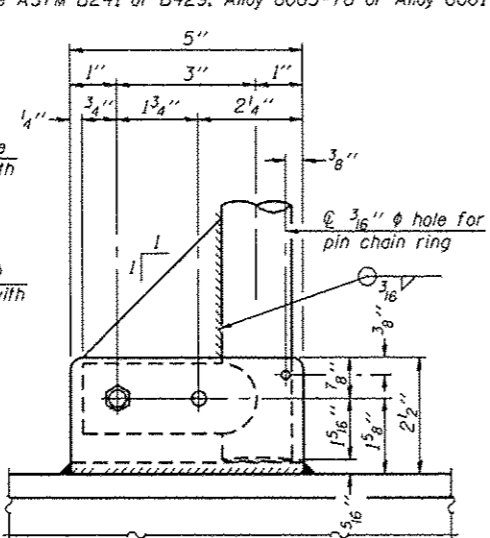
**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

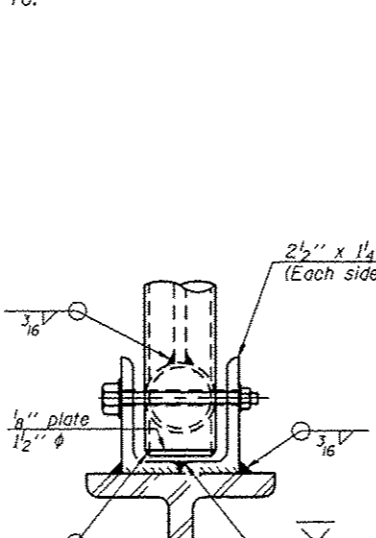


**ALTERNATE SAFETY CHAIN ATTACHMENT**

(With Sign Present)  
Items not shown same as "Side Elevation" of "Handrail Details"

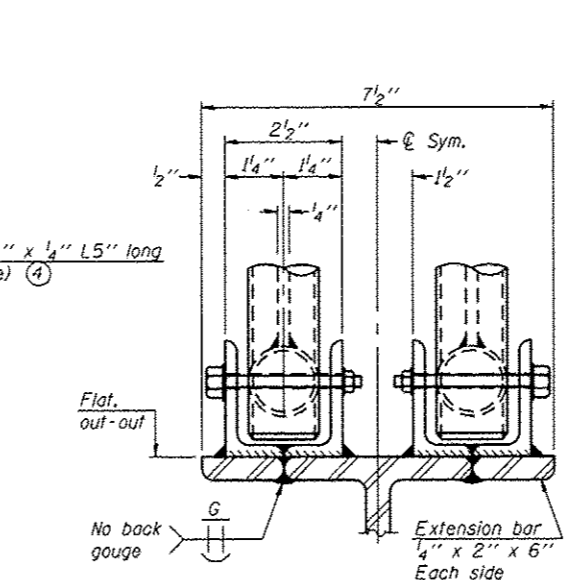


**SIDE ELEVATION**

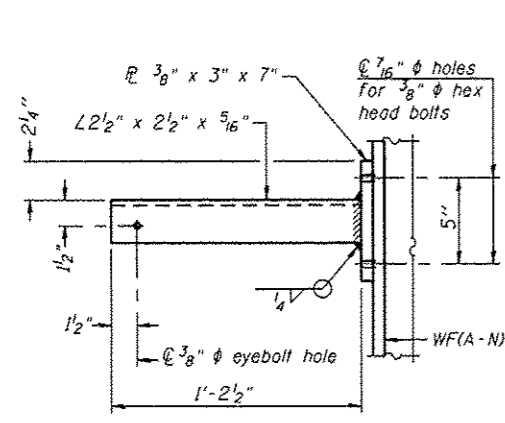


**FRONT ELEVATION**

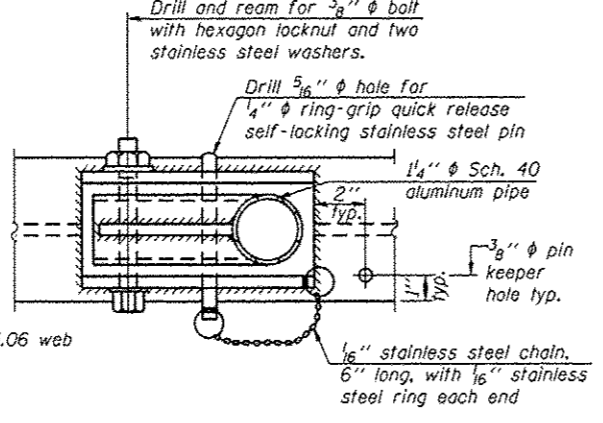
See "Elevation" at right for dimensions.



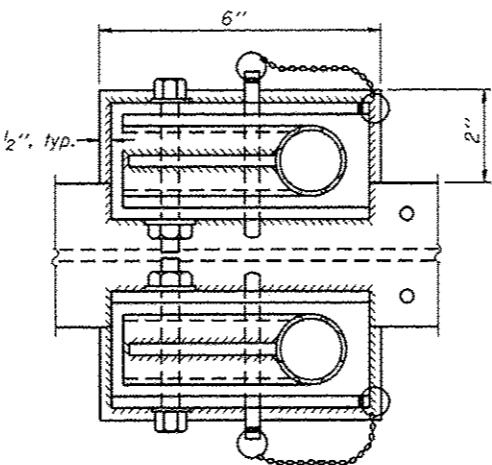
**ELEVATION AT HANDRAIL JOINT**



**SECTION P-P**

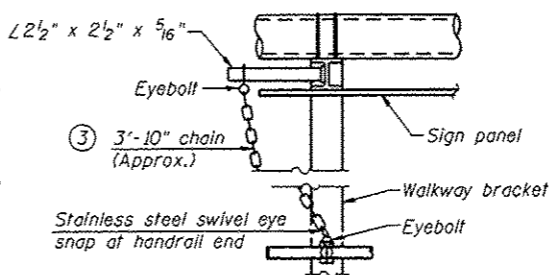


**PLAN  
DETAIL E HANDRAIL HINGE**



**PLAN AT HANDRAIL JOINT**

Details not shown same as "PLAN"

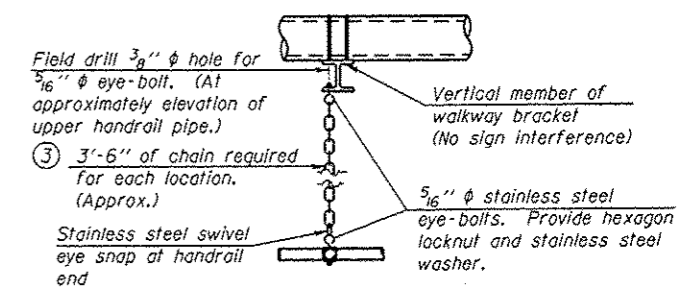


**ALTERNATE SAFETY CHAIN ATTACHMENT**

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.

④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



**SAFETY CHAIN**

One required for each end of each walkway.

OS-A-II

6-1-12

• 0-5 OVD SIN STR REPL 2013-09

FILE NAME =	USER NAME = bucklesjj	DESIGNED -	REVISED -
c:\pwork\pndot\bucljesjj\d0380231\0546222-Sht-Sign_Structure_Details.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES  
ALUMINUM HANDRAIL DETAILS**

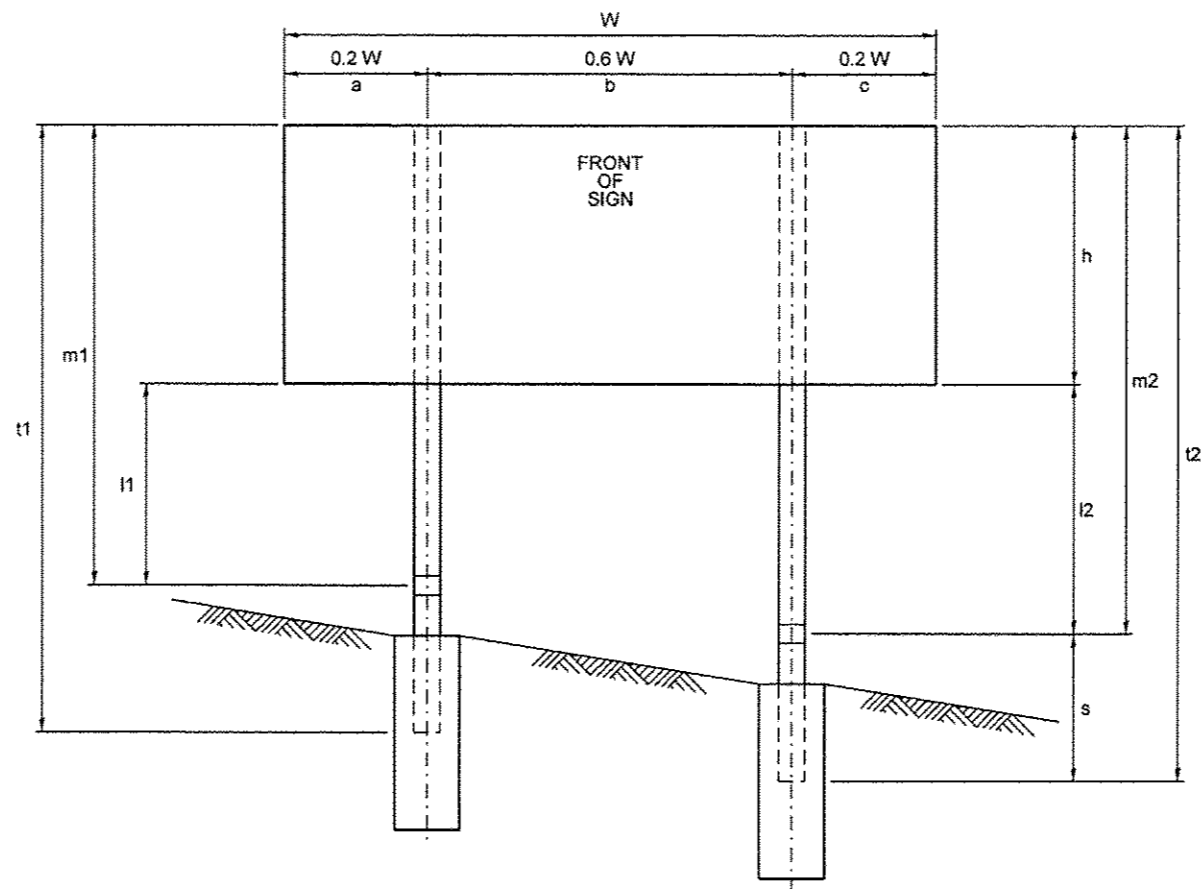
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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P.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74		CHAMPAIGN	50	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 46222	

# BREAK AWAY GROUND MOUNT SIGNAGE LAYOUT CHAMPAIGN COUNTY

Location No.	Structure No.	Mounting OFFSET to the near edge of sign	Mounting HEIGHT to the bottom edge of sign	Sign Size W x h ft	Sign Width W ft	0.2W a ft	0.6W b ft	0.2W c ft	Clear Height CH ft	Sign Height h ft	leg 1 l1 ft	leg 2 l2 ft	main post 1 m1 ft	main post 2 m2 ft	stub post s ft	Total post 1 t1 ft	Total post 2 t2 ft	Post Type	Nominal wt. lbs/ft	Total Weight (both posts) lbs	Total Concrete cu. yds.
5-03	5 C 010 1074 R181.72	4 feet from face of guardrail	7 feet from white stripe / edge of pavement	13.5' x 12.5'	13.5	2.7	8.1	2.7	13.0	12.5	9.5	13.0	22.0	25.5	3.5	25.5	29.0	W14 x 38	38.0	2071.0	4.18
5-05	5 C 010 1074 R183.00	23 feet from white stripe / edge of pavement	7 feet from white stripe / edge of pavement	16.5' x 6.5'	16.5	3.3	9.9	3.3	12.0	6.5	10.0	12.0	16.5	16.5	3.0	19.5	21.5	W10 x 26	26.0	1066.0	2.54
5-06	5 C 010 1074 L183.13	30 feet from white stripe / edge of pavement	7 feet from white stripe / edge of pavement	13.5' x 12.5'	13.5	2.7	8.1	2.7	12.0	12.5	11.0	12.0	23.5	24.5	3.5	27.0	28.0	W14 x 38	38.0	2090.0	4.18

Location No.	Structure No.	Station - Proposed Location
5-03	5 C 010 1074 R181.72	The proposed breakaway ground mount is to be at Sta. 1213+06. This is 15' east of the existing cantilever to be removed (1212+91).
5-05	5 C 010 1074 R183.00	The proposed breakaway ground mount is to be at Sta. 1282+50. This is 133' east of the existing cantilever to be removed (1281+17).
5-06	5 C 010 1074 L183.13	The proposed breakaway ground mount is to be at Sta. 1287+84. This is 20' west of the existing cantilever to be removed (1288+04).

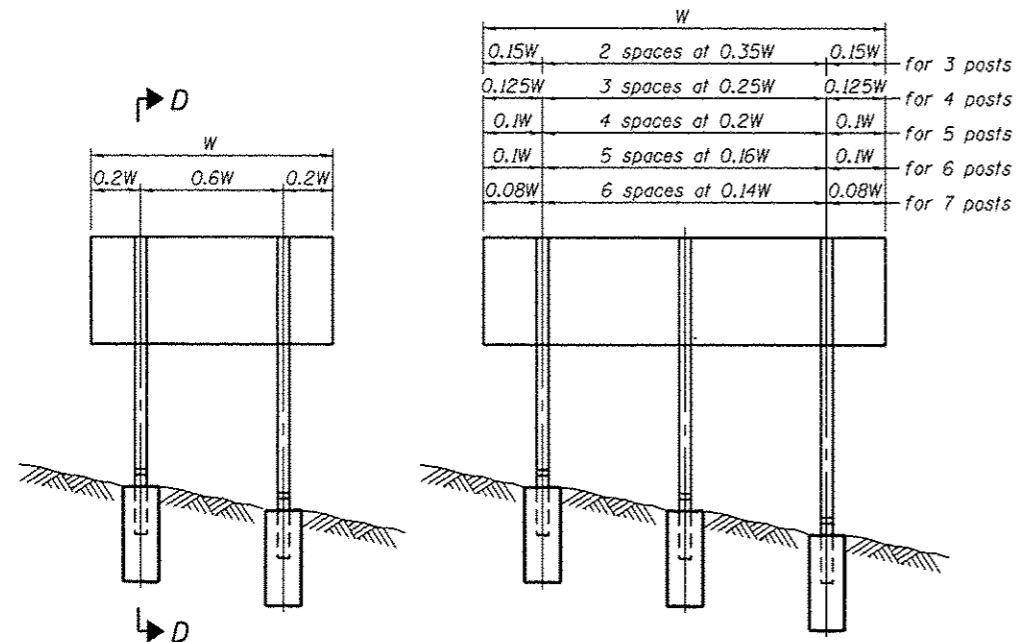


CH = Clear Height = the greater of l1 or l2

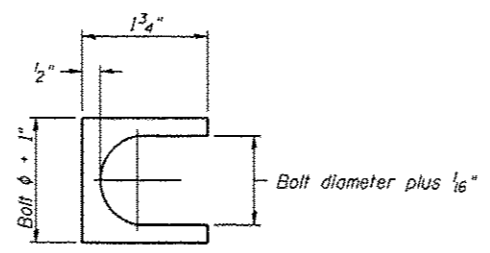
• D-5 QVD SIN STR REPL 2013-09

FILE NAME =	USER NAME = bucklesjj	DESIGNED - JAL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BREAK AWAY GROUND MOUNT SIGNAGE LAYOUT CHAMPAIGN COUNTY</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pe\work\p1dot\bucklesjj\0308231\05	222-Sht-Details.dgn	DRAWN -	REVISED -					74		CHAMPAIGN	50	48	
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		SCALE:			SHEET NO. 15 OF 17 SHEETS		STA. TO STA.		CONTRACT NO. 46222	
	PLOT DATE = 8/22/2012	DATE - 04/26/11	REVISED -		ILLINOIS FED. AID PROJECT								

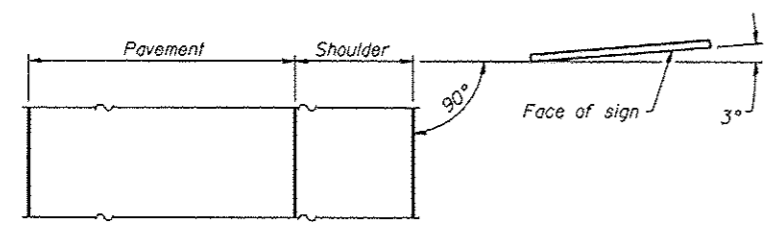




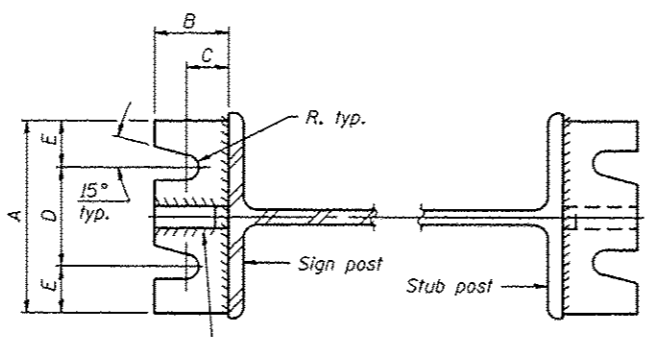
ELEVATION



**SHIM DETAIL**  
Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

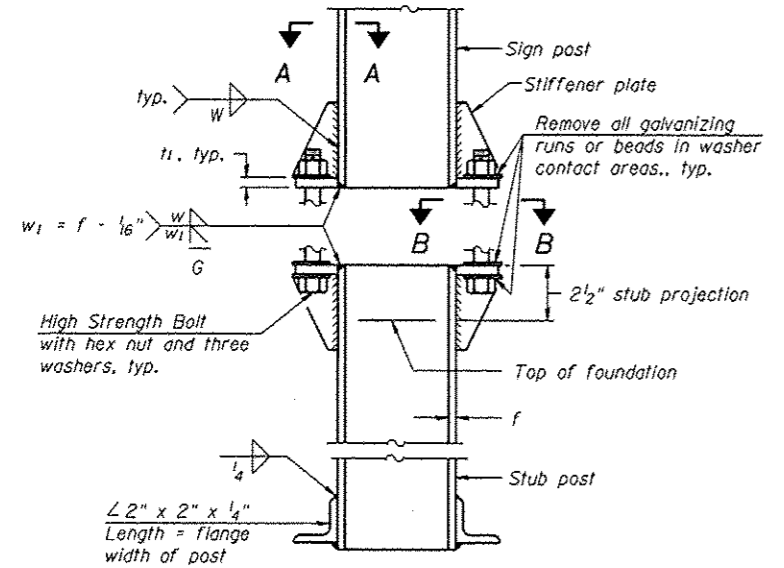


LOCATION SKETCH

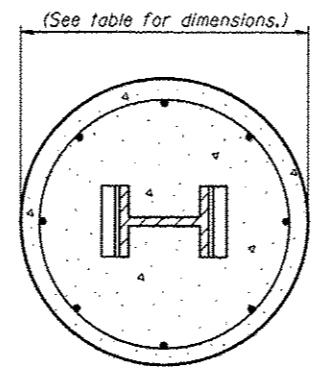


SECTION A-A

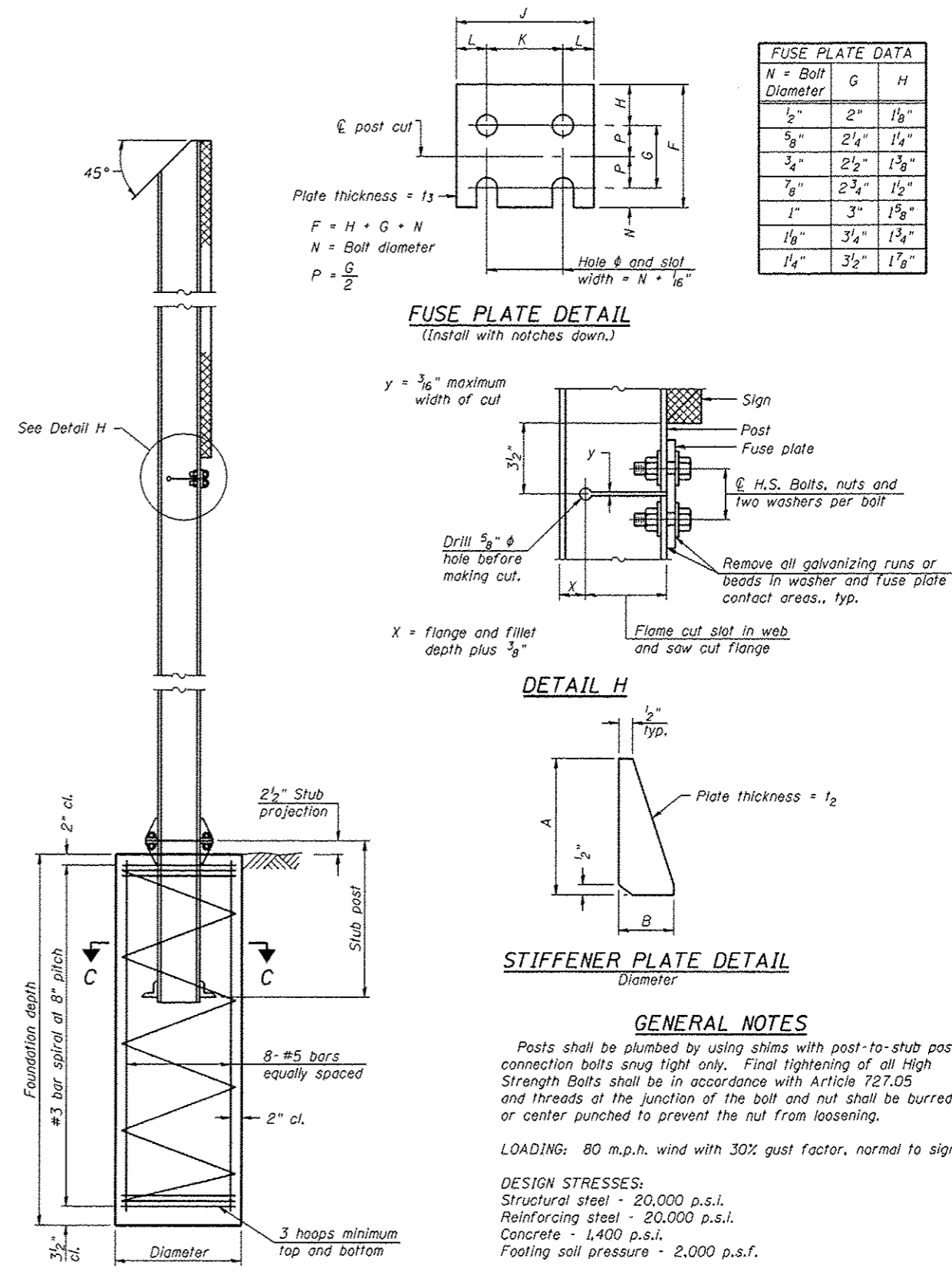
SECTION B-B



ELEVATION  
SIGN POST & STUB POST



SECTION C-C



**FUSE PLATE DETAIL**  
(Install with notches down.)

**DETAIL H**

**STIFFENER PLATE DETAIL**  
Diameter

N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"

**GENERAL NOTES**

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
Structural steel - 20,000 p.s.i.  
Reinforcing steel - 20,000 p.s.i.  
Concrete - 1,400 p.s.i.  
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

BAW-A-1

6-1-12

(Sheet 1 of 2)

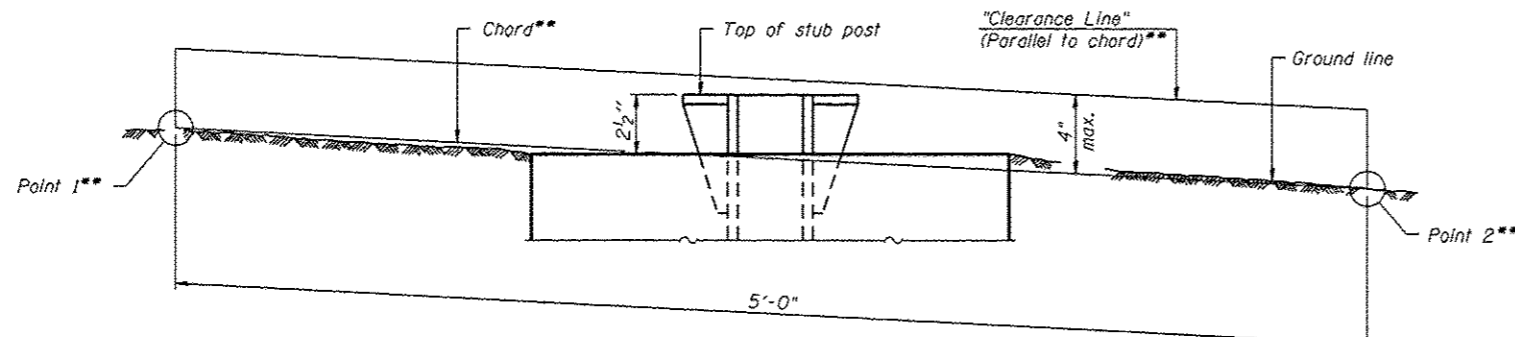
Work this sheet with Base Sheet BAW-A-2.  
• 0-5 OVD SIN STR REPL 2013-09

FILE NAME * c:\p\work\p\sdot\bucklesj\0308231\05222-Sht-Details.dgn	USER NAME * bucklesj	DESIGNED - JAL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE * 1/8" = 1'-0"	CHECKED -	REVISOR -	T4				CHAMPAIGN	50	49	
PLOT DATE * 8/22/2012	DATE - 04/26/11	REVISOR -					CONTRACT NO.	46222		
						SCALE:	SHEET NO. 16 OF 17 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>
	Diameter	Minimum Depth	Concrete (cu. yds.)	Vertical Bars Length	Bar Diameter	Spirals Length	lbs. (2)															
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1 1/2"	1 1/2"	1 1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1 1/2"	1 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1 1/2"	1 3/2"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1 1/2"	1 3/2"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/2"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/2"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 5/2"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-0"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/2"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/2"	3/8"	7"	3 1/2"	1 3/4"	1/2"

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																					
	Sign Height																					
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	---	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



**ELEVATION**  
**GROUND LINE & STUB POST**

\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

Note: All necessary excavation or drilling, backfilling, disposal of material, formwork, and furnishing and placing all materials including Class DS Concrete and reinforcing steel shall be included in the pay item for "Concrete Foundations".

BAW-A-2

6-1-12

(Sheet 2 of 2)

• D-5 OVD SIN STR REPL 2013-09

FILE NAME *	USER NAME *	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BREAK-AWAY WIDE FLANGE</b> <b>STEEL SIGN POST TABLES</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\backus\j\10308231\054222-Sht-Details.dgn	buchler,j	JAL	-			74	-	CHAMPAIGN	50	50	
PLOT SCALE *	CHECKED -	DATE	REVISED -			CONTRACT NO. 46222					
1/8" = 1'-0"	-	04/26/11	-			[ILLINOIS] FED. AID PROJECT					