4-23-10 LETTING ITEM 306

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

Various Routes
D 5 OSS REPL 2010-46
Various Counties
Sheet 1 of 77
Contract Number 46110

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

INDEX OF SHEETS

VARIOUS ROUTES
D 5 OSS REPL 2010-46
VARIOUS COUNTIES
C-60-047-10

STANDARDS

701101-02
701106-02
701400-04
701406-05
701411-06
701421-02
701601-06
701901-01
720001-01
720006-02
720021-02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 2/05 2010
PASSED
Aaron Weatherholtz
ENGINEER OF OPERATIONS
March 19, 2010
Scott E. Stitt, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT
APPROVED March 19, 2010
Christine M. Reed
DIRECTOR DIVISION OF HIGHWAYS

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

CONTRACT NO. 46110

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	Y002 - 1C 100% STATE TOTAL QUANTITY	URBAN	RURAL
67100100	MOBILIZATION	L SUM	1.00		1.00
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	9.00		9.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	17.00		17.00
72000300	SIGN PANEL - TYPE 3	SQFT	2769.00		2769.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	2584.00		2584.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	10932.00		10932.00
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	190.00		190.00
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	130.00		130.00
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	75.00		75.00
73400100	CONCRETE FOUNDATIONS	CUYD	27.30		27.30
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	27.00		27.00
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	3.00		3.00
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	16.00		16.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	16.00		16.00
73800100	STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	6.00		6.00
81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	135.00		135.00
T9996300	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	12.00		12.00
X7012615	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	EACH	2.00		2.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	9.00		9.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	64.00		64.00
X7330105	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	268.00		268.00
X7330110	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	60.00		60.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	20.00		20.00
Z0002005	ATTENUATOR BASE	SQYD	35.00		35.00
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	6.00		6.00
Z0030150	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1.00		1.00

FILE NAME = c:\pw_work\pwidot\craigre\d0180151\D546110-sht-SOQ.dgn	USER NAME = craigre	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000 ' / IN.	DRAWN -	REVISED -			*	D-5 OSS REPL 2010-46	Various	77	2
	PLOT DATE = 2/4/2010	CHECKED -	REVISED -			* Various		CONTRACT NO. 46110		
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

GENERAL NOTES

G.N.-100
ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-UTILITY LOCATE

THE PLAN SHEETS PROVIDED ARE INTENDED TO SHOW SIGN TRUSS REPLACEMENTS AND PROPOSED GROUND MOUNTED SIGNAGE LOCATIONS. APPROXIMATE LIGHTING CIRCUIT ELECTRICAL INFORMATION IS SHOWN ONLY TO PROVIDE THE CONTRACTOR WITH AN ESTIMATE OF THE WORK INVOLVED WITH THE PAY ITEM "ELECTRICAL SERVICE DISCONNECT". NO OTHER UTILITY INFORMATION IS SHOWN OR WAS INTENDED TO BE SHOWN. CONTRACTOR SHALL NOTIFY JULIE PER ARTICLE 107.31 PRIOR TO BEGINNING DRILLED SHAFT FOUNDATION WORK. REGARDING STATE OWNED UTILITIES, THE CONTRACTOR SHALL NOTIFY DAVE BURKYBILE THE DISTRICT TRAFFIC SIGNAL SYSTEM ENGINEER (OFFICE - 217-466-7383 / CELL - 217-836-8236) TWO WEEKS PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF STATE OWNED LINES. THE STATE WILL THEN LOCATE AND MARK THE HORIZONTAL LOCATIONS OF THE LINES AND PROVIDE ANY AVAILABLE INFORMATION AS TO THEIR DEPTH. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.). THE CONTRACTOR SHALL COORDINATE THE LOCATING OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE. AN EXAMPLE OF THIS SITUATION WOULD BE THE TRAFFIC SIGNALS ALONG NEIL ST OVER I-74. **THE CITY OF CHAMPAIGN IS A JULIE MEMBER AND SHOULD BE CONTACTED TO LOCATE THE CABLE, DETECTOR LOOPS, AND FIBER OPTIC ASSOCIATED WITH THE TRAFFIC SIGNALS. THE CONTRACTOR SHOULD VERIFY THIS LOCATE IS DONE PRIOR TO BEGINNING DRILLED SHAFTS.

SCHEDULE OF QUANTITIES

X8040310 - ELECTRIC SERVICE DISCONNECT

LOCATION NO.	STRUCTURE NO.	UNIT	QUANTITY	DESCRIPTION
OSSR-1	5 S 057 S009 R019.00	EACH	1.0	Re-using foundations. If truss is wired in series between light poles, use new end supports as junction box. If truss wiring is end of run stubbed from a light pole, disconnect electrical connection per "ELECTRIC SERVICE DISCONNECT"
OSSR-2	5 S 057 S009 R019.10	EACH	1.0	Re-using foundations. If truss is wired in series between light poles, use new end supports as junction box. If truss wiring is end of run stubbed from a light pole, disconnect electrical connection per "ELECTRIC SERVICE DISCONNECT"
OSSR-3	5 S 057 S009 R019.40	EACH	1.0	Re-using foundations. If truss is wired in series between light poles, use new end supports as junction box. If truss wiring is end of run stubbed from a light pole, disconnect electrical connection per "ELECTRIC SERVICE DISCONNECT"
OSSR-4	5 C 092 S001 L027.29	EACH	1.0	Truss lighting # 66/605 is end of run stubbed from nearby light pole # 66/128.
OSSR-5	5 C 092 S001 R027.13	EACH	1.0	Truss lighting # 65/603 is end of run stubbed from nearby light pole # 65/123.
OSSR-6	5 C 092 S001 L027.09	EACH	1.0	Truss lighting # 65/608 is end of run stubbed from nearby light pole # 65/135.
SR-1	5 C 092 S001 R026.99	EACH	1.0	Re-using foundation. Truss lighting # 65/613 wired in series with poles # 65/159 & # 65/158. Disconnect electrical connection and remove electrical components from truss. Use end support as junction box to maintain operation of existing lighting.
GM-1	5 C 092 S001 L027.48	EACH	1.0	Truss lighting # 66/603 is end of run stubbed from nearby light pole # 66/119.
GM-2	5 C 092 S001 L027.44	EACH	1.0	Truss lighting # 66/604 is end of run stubbed from nearby light pole # 66/125.
GM-3	5 C 092 S001 L027.25	EACH	1.0	Truss lighting # 65/607 is end of run stubbed from nearby light pole # 65/133.
GM-4	5 C 092 S001 R027.23	EACH	1.0	Truss lighting # 65/604 is end of run stubbed from nearby light pole # 65/125.
GM-5	5 C 092 S001 R027.03	EACH	1.0	Truss lighting # 65/612 wired in series with poles # 65/145 & # 65/146. Disconnect electrical connection at each pole and at the truss. 135' of new Unit Duct (UD 2#6 #6G XLPUSE 1") will be paid for between # 65/145 & # 65/146 to maintain circuit.
GM-6	5 C 092 I074 R209.90	EACH	1.0	Truss lighting # 62/601 is end of run stubbed from nearby light pole # 62/107.
GM-7	5 C 092 I074 L213.60	EACH	1.0	Truss lighting # 64/602 is end of run stubbed from nearby light pole # 64/141.
GM-8	5 C 092 I074 R213.70	EACH	1.0	Truss lighting # 64/604 is end of run stubbed from nearby light pole # 64/115.
GM-9	5 C 092 I074 L213.79	EACH	1.0	Truss lighting # 64/603 is end of run stubbed from nearby light pole # 64/134.
GM-10	5 C 010 I074 R000.05	EACH	1.0	Truss lighting # 52/605 is end of run stubbed from nearby light pole # 52/125.
GM-11	5 C 010 I074 R000.13	EACH	1.0	Truss lighting # 52/604 is end of run stubbed from nearby light pole # 52/121.
GM-12	5 C 010 I074 R000.19	EACH	1.0	Truss lighting # 52/603 is end of run stubbed from nearby light pole # 52/120.
GM-13	5 C 010 I074 L000.29	EACH	1.0	Truss lighting # 52/602 is end of run stubbed from nearby light pole # 52/116.

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. The pay items X8040310 ELECTRICAL SERVICE DISCONNECT and 81603035 UD 2#6 #6G XLPUSE 1 should cover all work needed to comply with "ELECTRICAL SERVICE DISCONNECT".

OSSR = Overhead Sign Structure Replacement
SR = Sign Replacement
GM = Ground Mount

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	3
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	Y002 - 1C 100% STATE TOTAL QUANTITY	OSSR-A 5S057 S009 R019.00	OSSR-B 5S057 S009 R019.10	OSSR-C 5S057 S009 R019.40	OSSR-D 5C092 S001 L027.29	OSSR-E 5C092 S001 R027.13	OSSR-F 5C092 S001 L027.09	SR-1 5C092 S001 R026.99	GM-1 5C092 S001 L027.48	GM-2 5C092 S001 L027.44	GM-3 5C092 S001 L027.25	GM-4 5C092 S001 R027.23	GM-5 5C092 S001 R027.03	GM-6 5C092 I074 R209.90	GM-7 5C092 I074 L213.60	GM-8 5C092 I074 R213.70	GM-9 5C092 I074 L213.79	GM-10 5C010 I074 R000.05	GM-11 5C010 I074 R000.13	GM-12 5C010 I074 R000.19	GM-13 5C010 I074 L000.29
				MCLEAN CO. - ILLINOIS 9			VERMILION COUNTY - ILLINOIS RT 1 - TILTON and I-74 @ US 150 / Exit 210 and I-74 @ G Street / Exit 214													CHAMPAIGN CO. - NEIL ST. over I-74			
67100100	MOBILIZATION	L SUM	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	9.00	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	17.00	-	-	-	2.00	2.00	2.00	1.00	1.00	1.00	2.00	2.00	1.00	1.00	-	-	2.00	-	-	-	-
72000300	SIGN PANEL - TYPE 3	SQFT	2768.25	264.50	397.25	458.50	84.00	84.00	75.00	75.00	27.00	140.00	93.75	50.00	105.00	214.50	68.75	74.25	114.00	154.00	79.75	60.50	148.50
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	2583.50	329.50	428.75	472.75	91.00	87.50	80.50	80.50	27.00	84.00	61.75	32.00	68.25	121.50	71.25	78.75	73.00	135.25	71.50	55.00	133.75
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	10931.50	-	-	-	-	-	-	-	375.00	1209.00	913.00	525.00	913.00	1624.50	457.50	457.50	957.00	1105.00	657.00	555.00	1183.00
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	190.00	80.00	-	110.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	130.00	-	130.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	75.00	-	-	-	24.00	25.00	26.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73400100	CONCRETE FOUNDATIONS	CUYD	27.28	-	-	-	-	-	-	-	1.40	2.54	2.36	1.40	2.36	4.18	1.40	1.40	2.36	2.54	1.40	1.40	2.54
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	27.00	-	-	-	9.00	9.00	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	3.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	16.00	-	-	-	1.00	1.00	1.00	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	16.00	-	-	-	1.00	1.00	1.00	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
73800100	STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	6.00	2.00	2.00	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GRND, (XLP-TYPE USE), 1" DIA. POLY	FOOT	135.00	-	-	-	-	-	-	-	-	-	-	-	135.00	-	-	-	-	-	-	-	-
T9996300	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	12.00	4.00	4.00	4.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X7012615	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	EACH	2.00	-	-	-	-	-	-	-	-	-	-	-	-	1.00	-	-	1.00	-	-	-	-
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	9.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-	-	-	1.00	1.00	-	1.00	1.00	1.00	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	64.00	-	-	-	7.00	4.00	4.00	1.00	4.00	4.00	4.00	4.00	4.00	14.00	-	-	14.00	-	-	-	-
X7330105	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	268.00	60.00	106.00	102.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X7330110	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	60.00	-	-	-	20.00	20.00	20.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	20.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Z0002005	ATTENUATOR BASE	SQYD	35.00	-	-	-	35.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	6.00	-	-	-	1.00	-	-	-	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-
Z0030150	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1.00	-	-	-	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

OSSR = Overhead Sign Structure Replacement

SR = Sign Replacement

GM = Ground Mount

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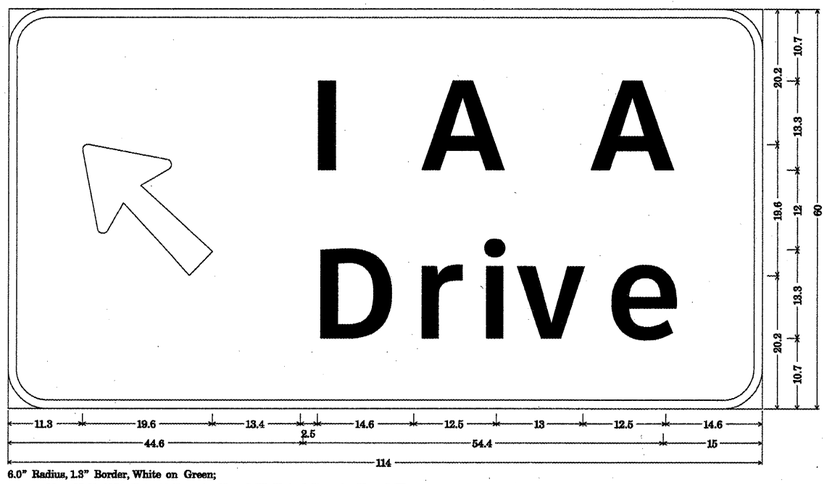
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	4
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

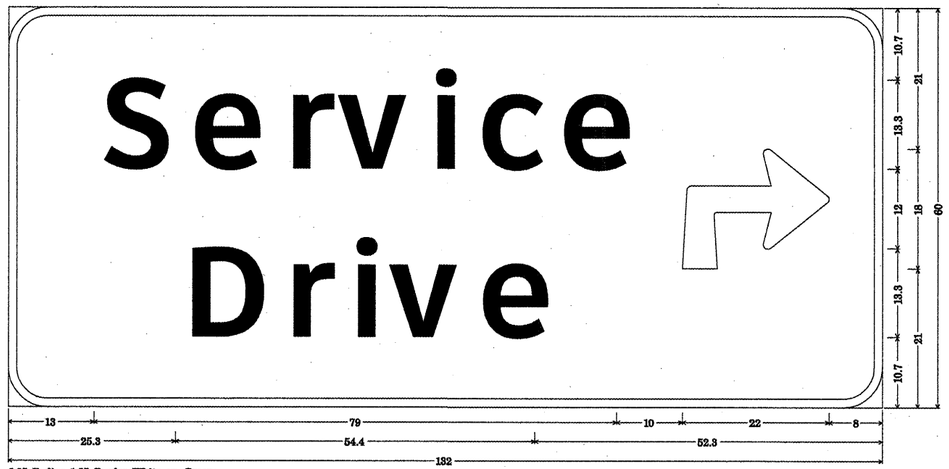
OS–1
5 S 057 S009 R019.00 – OSSR–A
LEFT SIGN



6.0" Radius, 1.3" Border, White on Green;
Arrow 80 – 25.0" 135{; [I A A] ClearviewHwy–5–W; [Drive] ClearviewHwy–5–W;
Table of letter and object lefts.

11.3	I 44.3	A 61.4	A 86.9
D 44.6	r 60.1	i 69.8	v 76.1	e 89.2

OS–3
5 S 057 S009 R019.00 – OSSR–A
RIGHT SIGN



6.0" Radius, 1.3" Border, White on Green;
[Service] ClearviewHwy–5–W; [Drive] ClearviewHwy–5–W; 90 Deg Advanced Turn Arrow 22.0" X 18.0";
Table of letter and object lefts.

S 13.0	e 26.4	r 40.7	v 49.0	i 62.4	c 69.8	e 82.2	102.0
D 25.3	r 40.7	i 50.5	v 56.7	e 69.9

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – MCLEAN CO.

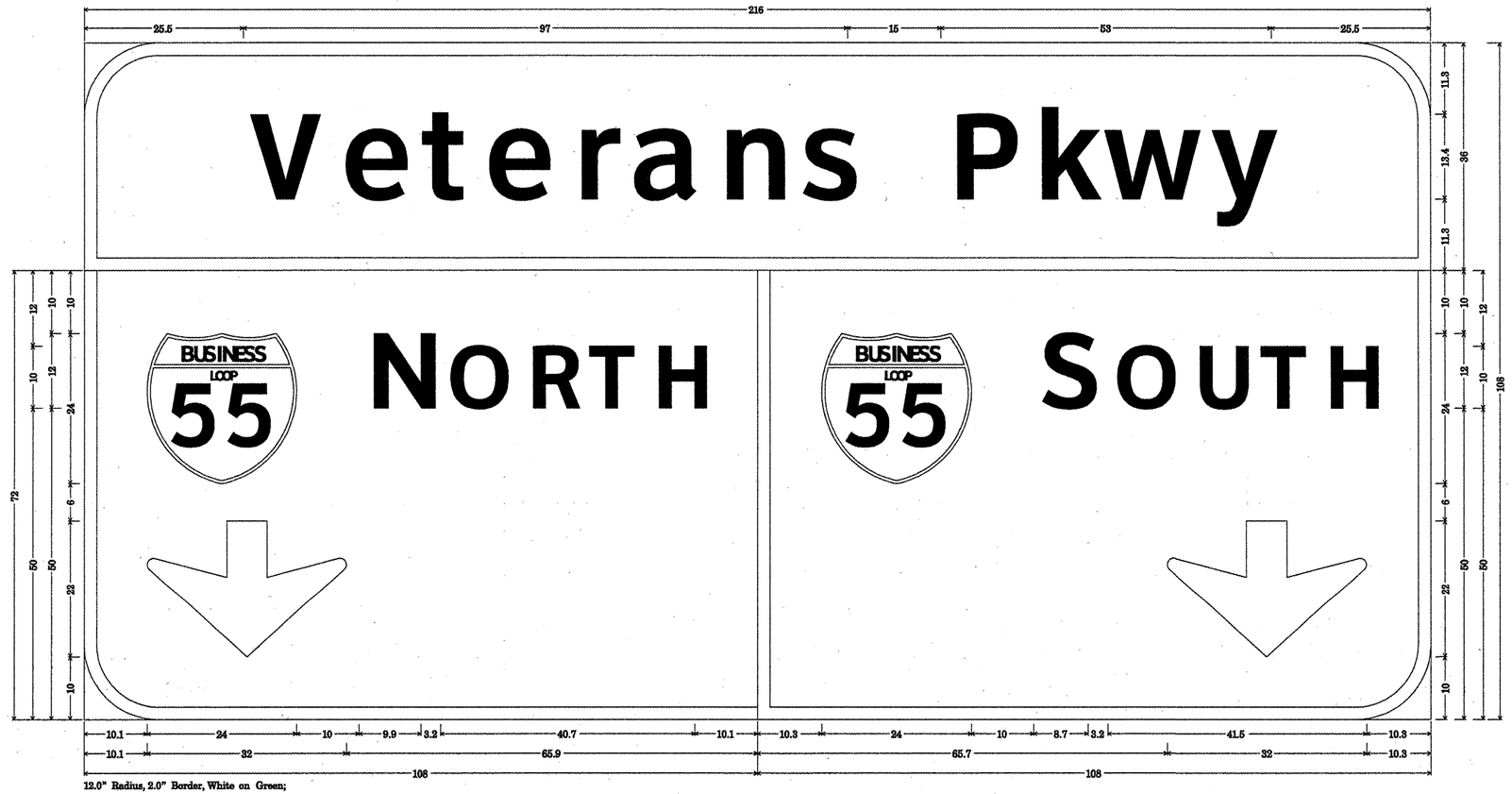
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	5
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

OS–2

5 S 057 S009 R019.00 – OSSR–A

MIDDLE SIGN



12.0" Radius, 2.0" Border, White on Green;
[Veterans Pkwy] ClearviewHwy–5–W;
12.0" Radius, 2.0" Border, White on Green;
[N ORTH] ClearviewHwy–5–W; Down Arrow 22.0" 270{;
12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy–5–W; Down Arrow 22.0" 270{;
Table of letter and object lefts.

V	e	t	e	r	a	n	s	P	k	w	y	
25.5	40.1	53.0	63.0	77.3	86.5	100.7	114.0	137.5	151.2	162.7	180.1	

N	O	R	T	H	
10.1	44.1	57.2	70.1	80.0	90.2

10.1

S	O	U	T	H	
118.3	152.3	164.2	177.1	187.8	198.0

178.7

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	PLOT DATE = 2/4/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – MCLEAN CO.

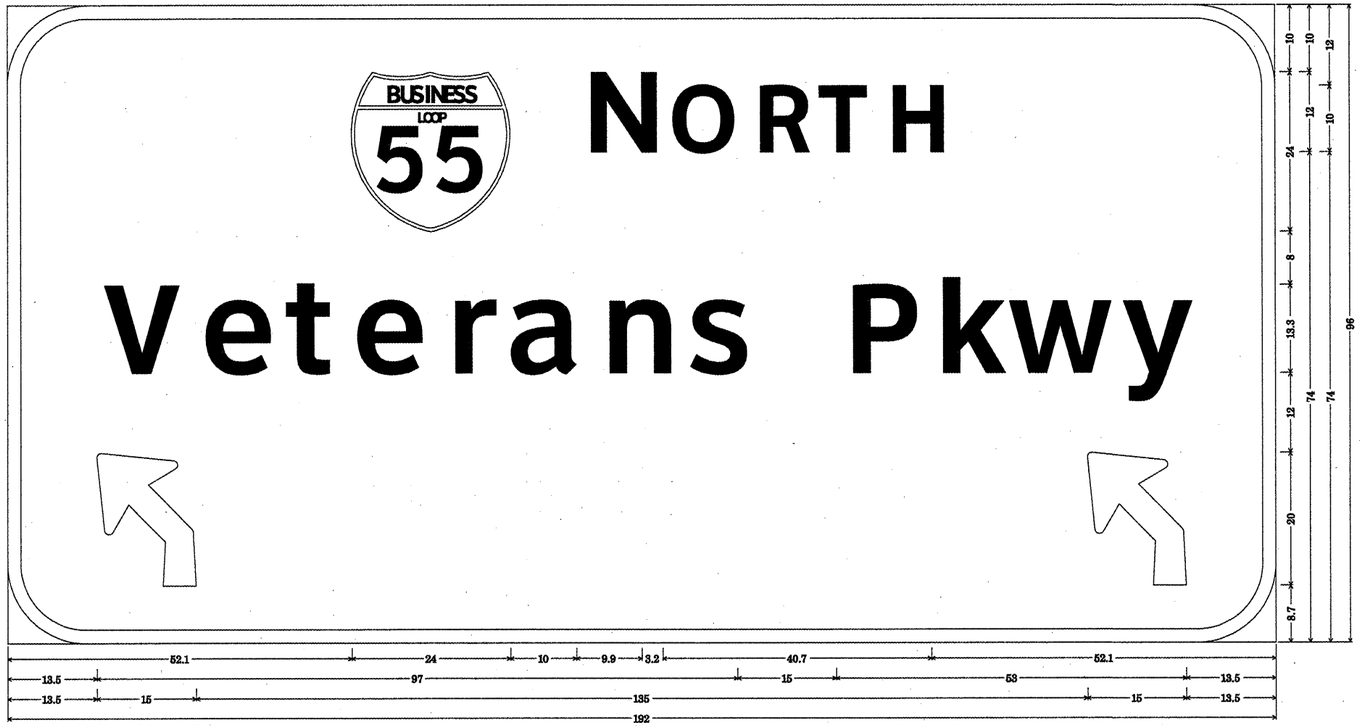
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 DSS REPL 2010-46	Various	77	6
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

OS–4

5 S 057 S009 R019.10 – OSSR–B

LEFT SIGN (EB)



12.0" Radius, 2.0" Border, White on Green;

[N ORTH] ClearviewHwy–5–W; [Veterans Pkwy] ClearviewHwy–5–W; 45 Deg Advanced Turn Arrow 15.0" X 20.0"; 45 Deg Advanced Turn Arrow 15.0" X 20.0";

Table of letter and object lefts.

52.1	N 86.1	O 99.2	R 112.1	T 122.0	H 132.2

V 13.5	e 28.1	t 41.0	e 51.0	r 65.3	a 74.5	n 88.7	s 102.0	P 125.5	k 139.2	w 150.7	y 168.1

13.5	163.5

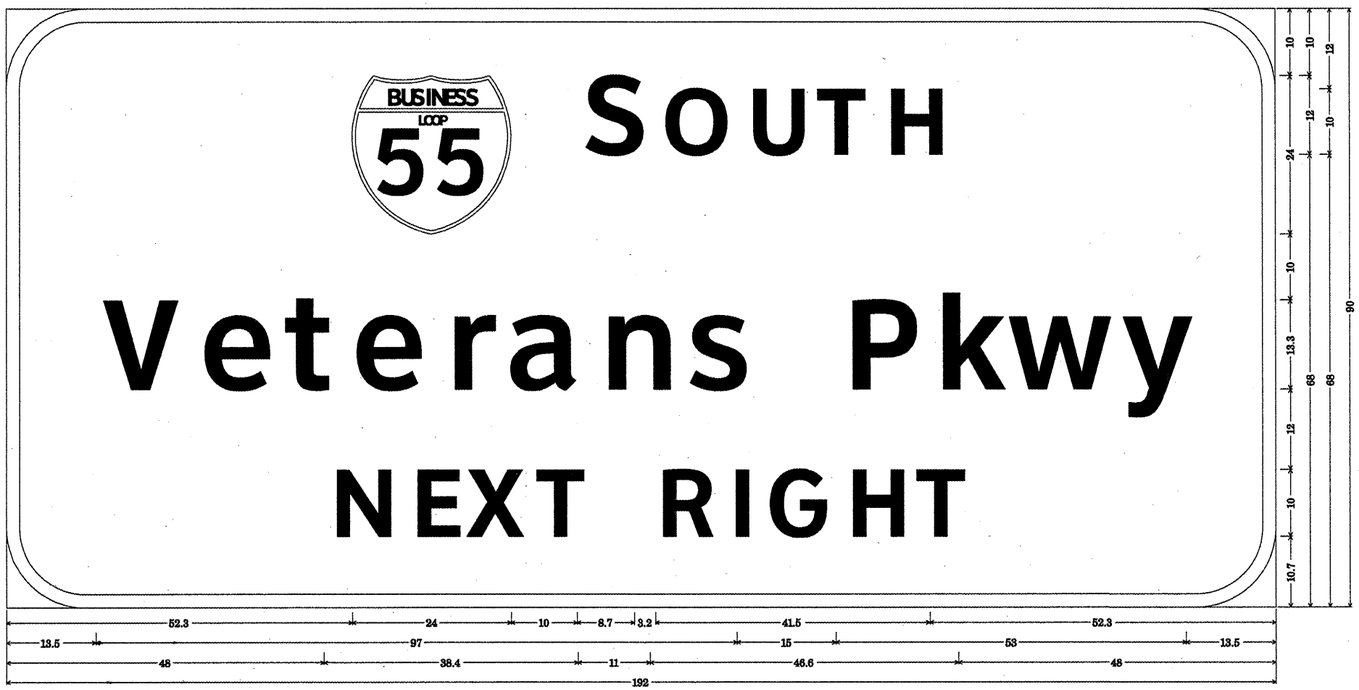
FILE NAME = c:\pw_work\PWIDOT\CRAIGRE\d0182151\D546110-sht-sign_details.dgn	USER NAME = craigre	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING DETAILS – MCLEAN CO.		
		DRAWN -	REVISED -				
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
	PLOT DATE = 2/4/2018	DATE -	REVISED -				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	7
•	Various	CONTRACT NO. 46110		
		ILLINOIS FED. AID PROJECT		

OS–5

5 S 057 S009 R019.10 – OSSR–B

RIGHT SIGN (EB)



12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy–5–W; [Veterans Pkwy] ClearviewHwy–5–W; [NEXT RIGHT] ClearviewHwy–5–W;
Table of letter and object lefts.

52.3	S 86.3	O 98.2	U 111.1	T 121.8	H 132.0							
V 13.5	e 28.1	t 41.0	e 51.0	r 65.3	a 74.5	n 88.7	s 102.0	P 125.5	k 139.2	w 150.7	y 168.1	
N 48.0	E 60.3	X 68.8	T 79.2	R 97.4	I 108.3	G 113.9	H 126.1	T 136.8				

FILE NAME = c:\pw_work\PWIDOT\CRAIGRE\d0180151\D546128-sht-sign_details.dgn	USER NAME = craigre	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 2/4/2018	DATE -	REVISED -

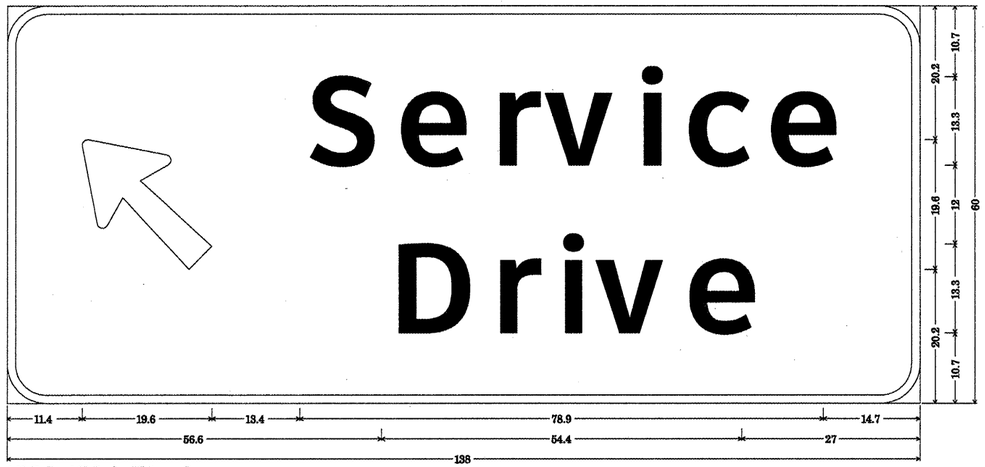
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – MCLEAN CO.

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	8
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

OS–6
5 S 057 S009 R019.10 – OSSR–B
LEFT SIGN (WB)

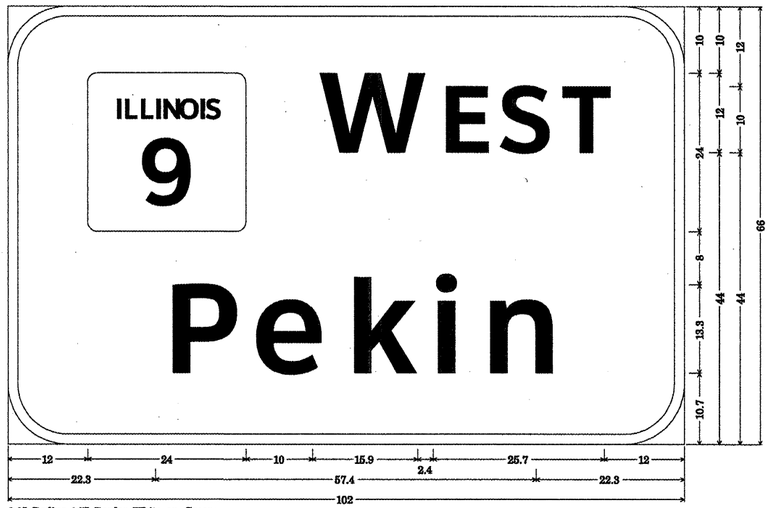


6.0" Radius, 1.3" Border, White on Green;
Arrow 80 – 25.0" 135{; [Service] ClearviewHwy–5–W; [Drive] ClearviewHwy–5–W;
Table of letter and object lefts.

	S	e	r	v	i	c	e
11.4	44.4	57.7	72.0	80.4	93.8	101.2	113.5

D	r	i	v	e
56.6	72.1	81.8	88.1	101.2

OS–7
5 S 057 S009 R019.10 – OSSR–B
MIDDLE SIGN (WB)

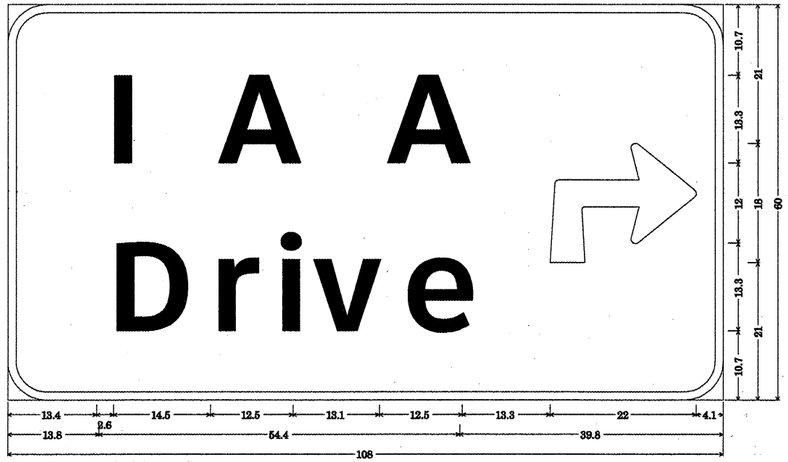


9.0" Radius, 1.5" Border, White on Green;
[W EST] ClearviewHwy–5–W; [Pekin] ClearviewHwy–5–W;
Table of letter and object lefts.

	W	E	S	T
12.0	46.0	64.3	73.3	82.7

P	e	k	i	n
22.3	35.6	49.9	62.5	70.4

OS–8
5 S 057 S009 R019.10 – OSSR–B
RIGHT SIGN (WB)



6.0" Radius, 1.3" Border, White on Green;
[I A A] ClearviewHwy–5–W; [Drive] ClearviewHwy–5–W; 90 Deg Advanced Turn Arrow 22.0" X 18.0";
Table of letter and object lefts.

I	A	A	r
13.4	30.5	56.1	81.9

D	r	i	v	e
13.8	29.2	39.0	45.2	58.4

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		DRAWN -	REVISED -
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	PLOT DATE = 2/4/2010	DATE -	REVISED -

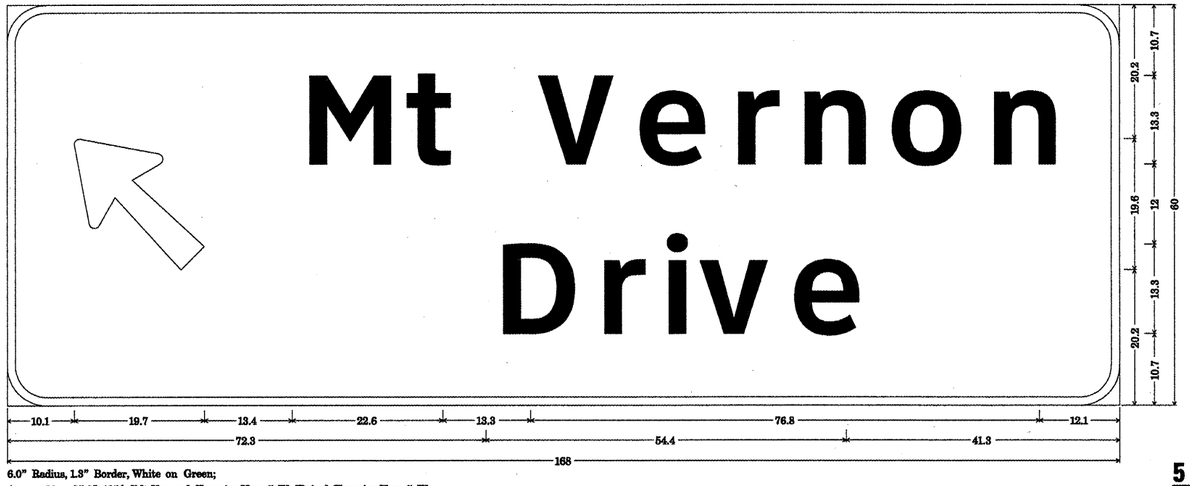
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – MCLEAN CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	9
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

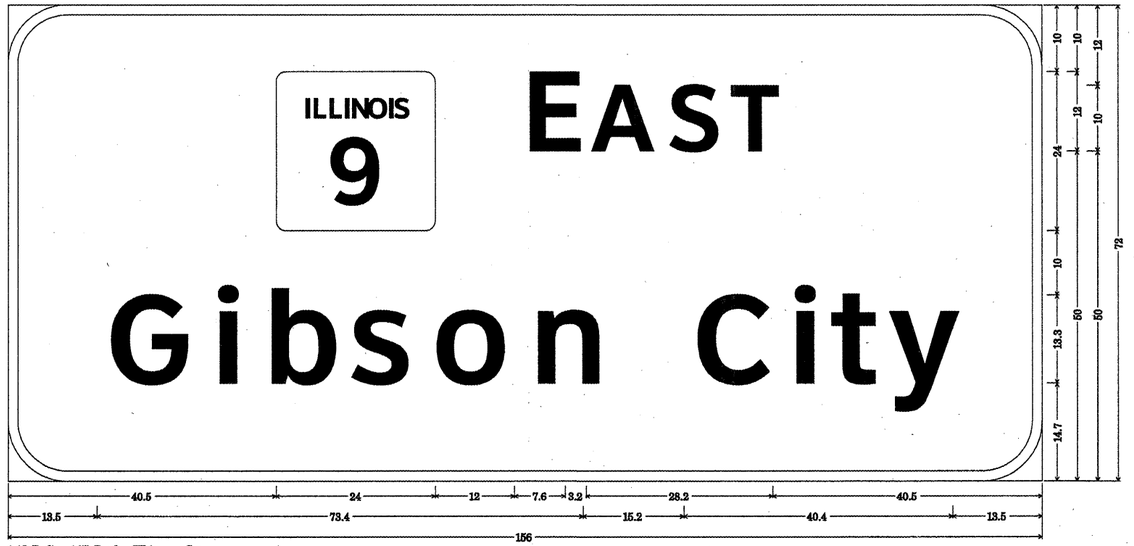
OS–9
5 S 057 S009 R019.40 – OSSR–C
LEFT SIGN (EB)



6.0" Radius, 1.3" Border, White on Green;
Arrow 80 – 25.0" 135{; [Mt Vernon] ClearviewHwy–5–W; [Drive] ClearviewHwy–5–W;
Table of letter and object lefts.

10.1	M 43.2	t 59.3	V 79.1	e 93.6	r 107.9	n 118.0	o 131.7	n 146.6	
D 72.3	r 87.8	i 97.5	v 103.7	e 116.9					

OS–10
5 S 057 S009 R019.40 – OSSR–C
MIDDLE SIGN (EB)



9.0" Radius, 1.5" Border, White on Green;
[E AST] ClearviewHwy–5–W; [Gibson City] ClearviewHwy–5–W;
Table of letter and object lefts.

E 40.5	E 76.5	A 87.3	S 98.9	T 108.3							
G 13.5	i 29.5	b 37.4	s 50.5	o 62.7	n 77.6	C 102.1	i 116.7	t 123.2	y 132.1		

FILE NAME = c:\pw_work\PWIDOT\CRAIGRE\d0180151\D546110-sht-sign_details.dgn	USER NAME = craigre	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 2/4/2010	DATE -	REVISED -

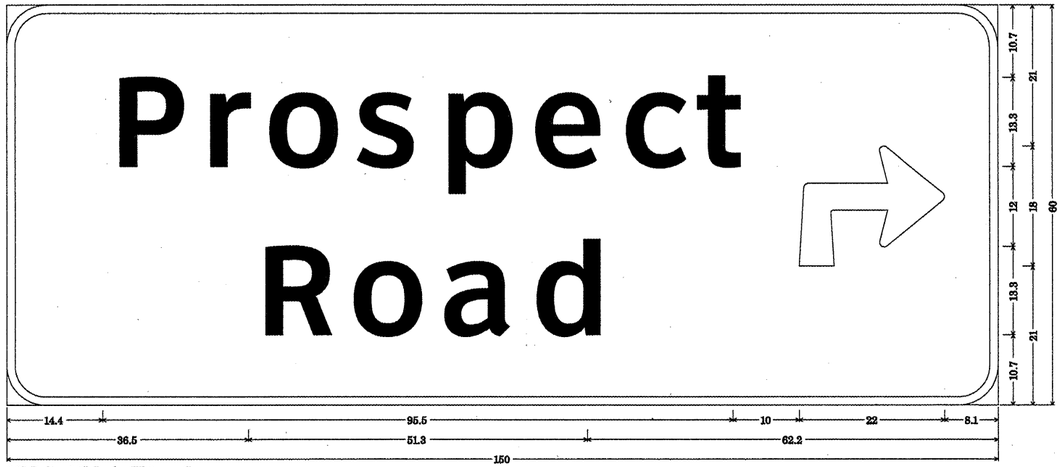
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – MCLEAN CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	10
*	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

OS–11
5 S 057 S009 R019.40 – OSSR–C
RIGHT SIGN (EB)



6.0" Radius, 1.3" Border, White on Green;
[Prospect] ClearviewHwy–5–W; [Road] ClearviewHwy–5–W; 90 Deg Advanced Turn Arrow 22.0" X 18.0";
Table of letter and object lefts.

P	r	o	s	p	e	c	t	⇨
14.4	28.3	37.8	51.6	64.4	78.0	91.8	103.3	119.9

R	o	a	d
36.5	50.5	64.5	78.2

FILE NAME = c:\pw_work\PWIDOT\CRAIGRE\d0188151\D546110-sht-sign_details.dgn	USER NAME = craigre	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 2/4/2010	DATE -	REVISED -

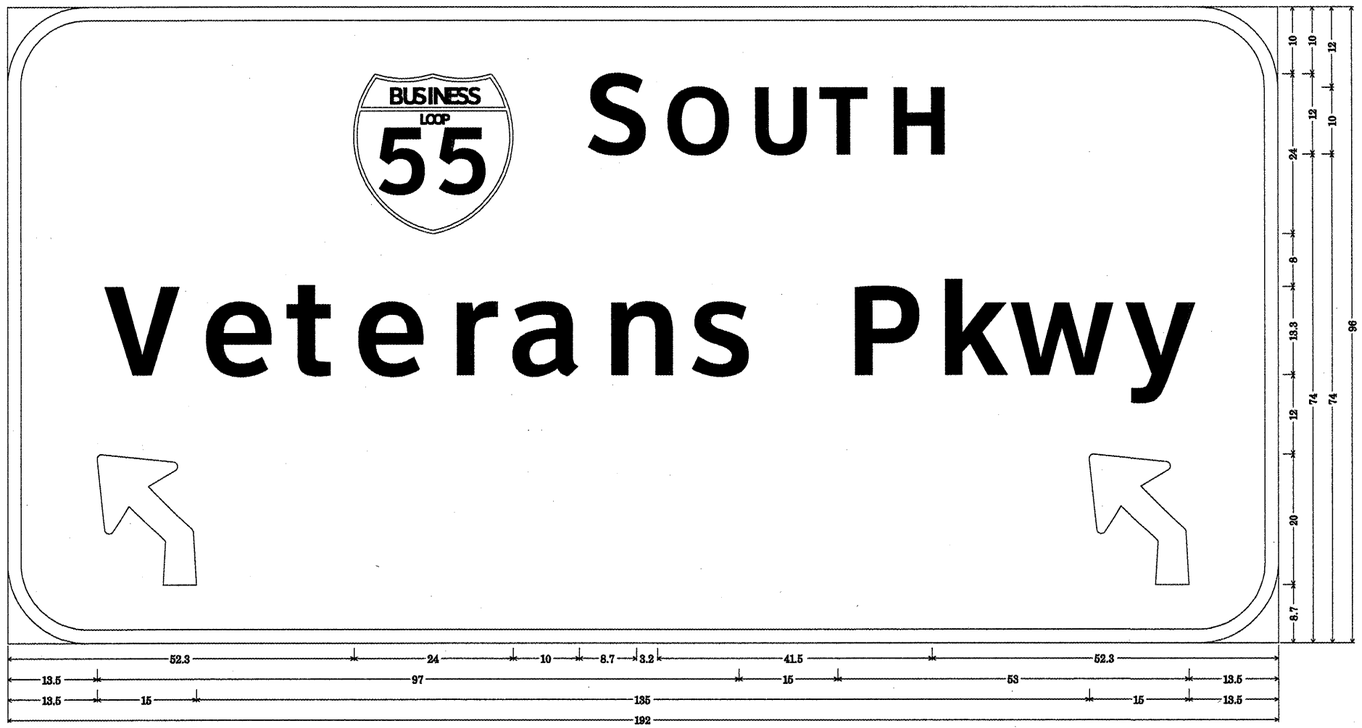
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – MCLEAN CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	11
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

OS–12
5 S 057 S009 R019.40 – OSSR–C
LEFT SIGN (WB)



12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy-5-W; [Veterans Pkwy] ClearviewHwy-5-W; 45 Deg Advanced Turn Arrow 15.0" X 20.0"; 45 Deg Advanced Turn Arrow 15.0" X 20.0";
Table of letter and object lefts.

Ⓣ 52.3	S 86.3	O 98.2	U 111.1	T 121.8	H 132.0

V 13.5	e 28.1	t 41.0	e 51.0	r 65.3	a 74.5	n 88.7	s 102.0	P 125.5	k 139.2	w 150.7	y 168.1

⇖ 13.5	⇗ 163.5

FILE NAME = c:\pw_work\PWIDOT\CRAIGRE\d0180151\D5461	USER NAME = craigre	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING DETAILS – MCLEAN CO.		
0-sht-sign_details.dgn	DRAWN -	REVISED -					
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
	PLOT DATE = 2/4/2010	DATE -	REVISED -				

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	12
*	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

OS–13

5 S 057 S009 R019.40 – OSSR–C

RIGHT SIGN (WB)

12.0" Radius, 2.0" Border, White on Green;

[N ORTH] ClearviewHwy–5–W; [Veterans Pkwy] ClearviewHwy–5–W; [NEXT RIGHT] ClearviewHwy–5–W;

Table of letter and object lefts.

52.1	N 86.1	O 99.2	R 112.1	T 122.0	H 132.2

V 13.5	e 28.1	t 41.0	e 51.0	r 65.3	a 74.5	n 88.7	s 102.0	P 125.5	k 139.2	w 150.7	y 168.1

N 48.0	E 60.3	X 68.8	T 79.2	R 97.4	I 108.3	G 113.9	H 126.1	T 136.8

FILE NAME = c:\pw_work\PWIDOT\CRAIGRE\d0180151\D546210-sht-sign_details.dgn	USER NAME = craigre	DESIGNED -	REVISED -
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	PLOT DATE = 2/4/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

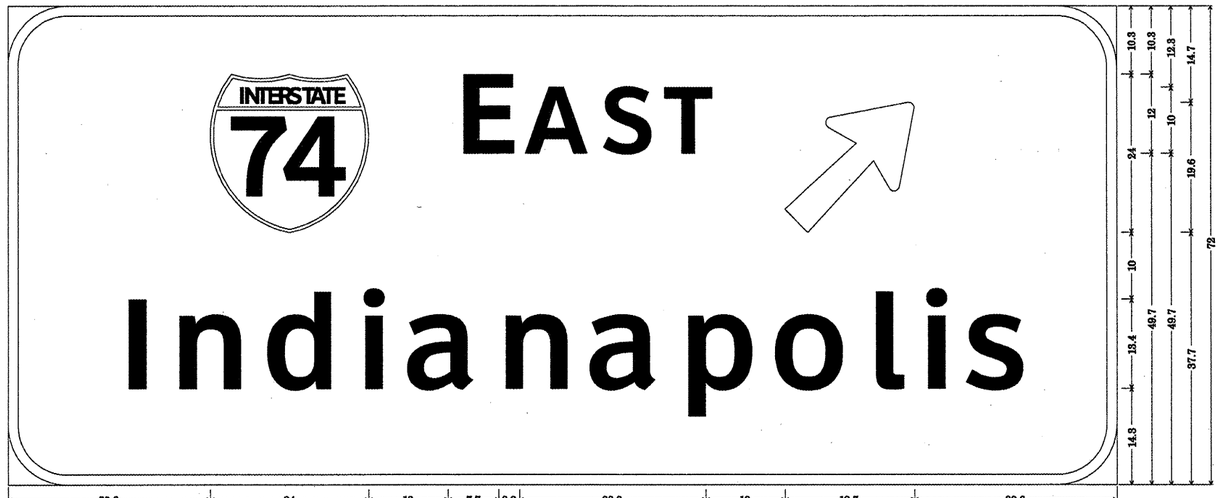
SIGNING DETAILS – MCLEAN CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	13
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

OS–14
5 C 092 S001 L027.29
OSSR–D

OS–15
5 C 092 S001 R027.13
OSSR–E



9.0" Radius, 1.5" Border, White on Green;
[E AST] ClearviewHwy-5-W; Arrow 80 – 25.0" 45{; [Indianapolis] ClearviewHwy-5-W;
Table of letter and object lefts.

30.6	E 66.6	A 77.5	S 89.0	T 98.4	117.7

I 15.7	n 23.5	d 37.3	i 51.7	a 58.8	n 72.9	a 86.4	p 100.6	o 114.2	l 129.0	i 137.0	s 143.8

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		DRAWN -	REVISED -
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	PLOT DATE = 2/4/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

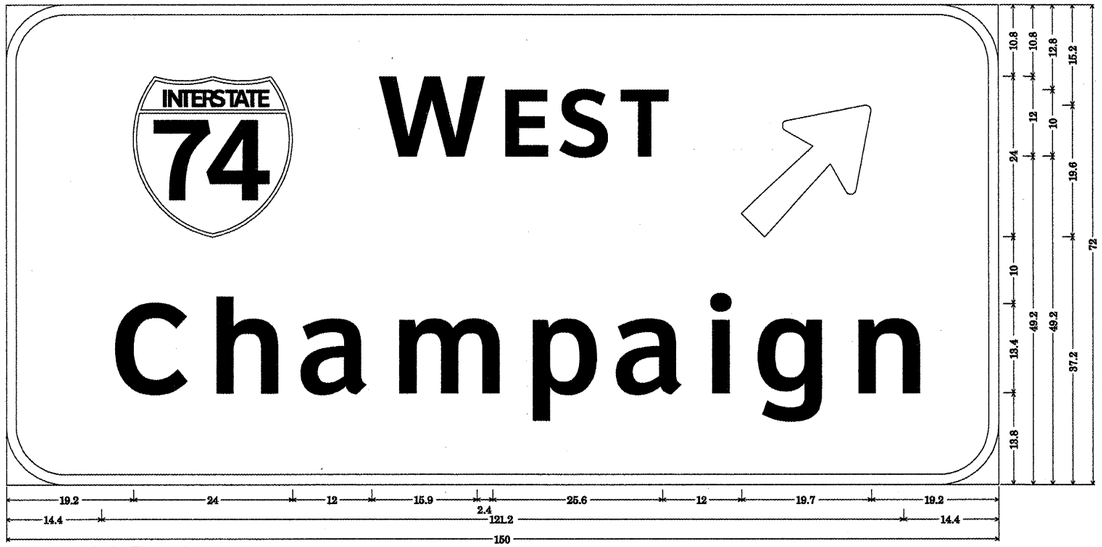
SIGNING DETAILS – VERMILION CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	14
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

OS–16
5 C 092 S001 L027.09
OSSR–F

OS–17
5 C 092 S001 R026.99
SR–1



9.0" Radius, 1.5" Border, White on Green;
[W EST] ClearviewHwy-5-W; Arrow 80 – 25.0" 45[; [Champaign] ClearviewHwy-5-W;
Table of letter and object lefts.

19.2	W 55.2	E 73.5	S 82.4	T 91.9	111.1

C 14.4	h 29.3	a 42.8	m 56.9	p 77.0	a 90.4	i 104.2	g 111.6	n 126.4

FILE NAME = c:\pw_work\PWIDOT\CRAIGRE\d0180151\D546110-sht-sign_details.dgn	USER NAME = craigre	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 2/4/2018	DATE -	REVISED -

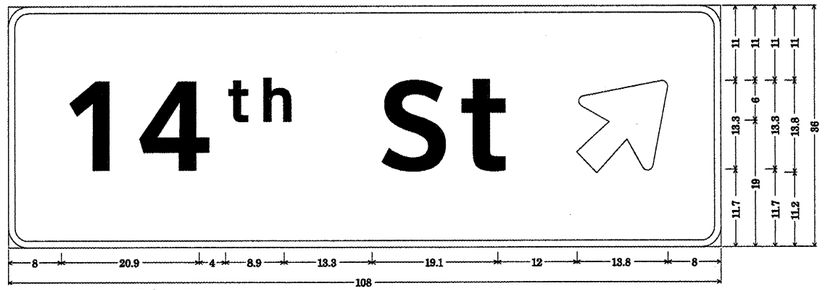
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – VERMILION CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	15
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

GM–1
5 C 092 S001 L027.48



3.0" Radius, 1.0" Border, White on Green;
[14] ClearviewHwy–5–W; [th] ClearviewHwy–5–W; [St] ClearviewHwy–5–W; Arrow 80 – 17.0" 45{;
Table of letter and object lefts.

1	4	t	h	S	t	↗
8.0	18.3	32.9	37.6	55.1	67.6	86.2

GM–2
5 C 092 S001 L027.44

12.0" Radius, 2.0" Border, White on Green;
[Champaign] ClearviewHwy–5–W; [Indianapolis] ClearviewHwy–5–W; [* MILE] ClearviewHwy–5–W;
Table of letter and object lefts.

1/4
72.0

C	h	a	m	p	a	i	g	n
23.4	38.3	51.8	65.9	86.0	99.4	113.2	120.6	135.4

I	n	d	i	a	n	a	p	o	l	i	s
15.7	23.5	37.3	51.7	58.8	72.9	86.4	100.6	114.2	129.0	137.0	143.8

*	M	I	L	E
49.4	84.1	97.2	103.2	112.2

FILE NAME =	USER NAME = craigre	DESIGNED -	REVISED -
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	PLOT DATE = 2/4/2010	DATE -	REVISED -

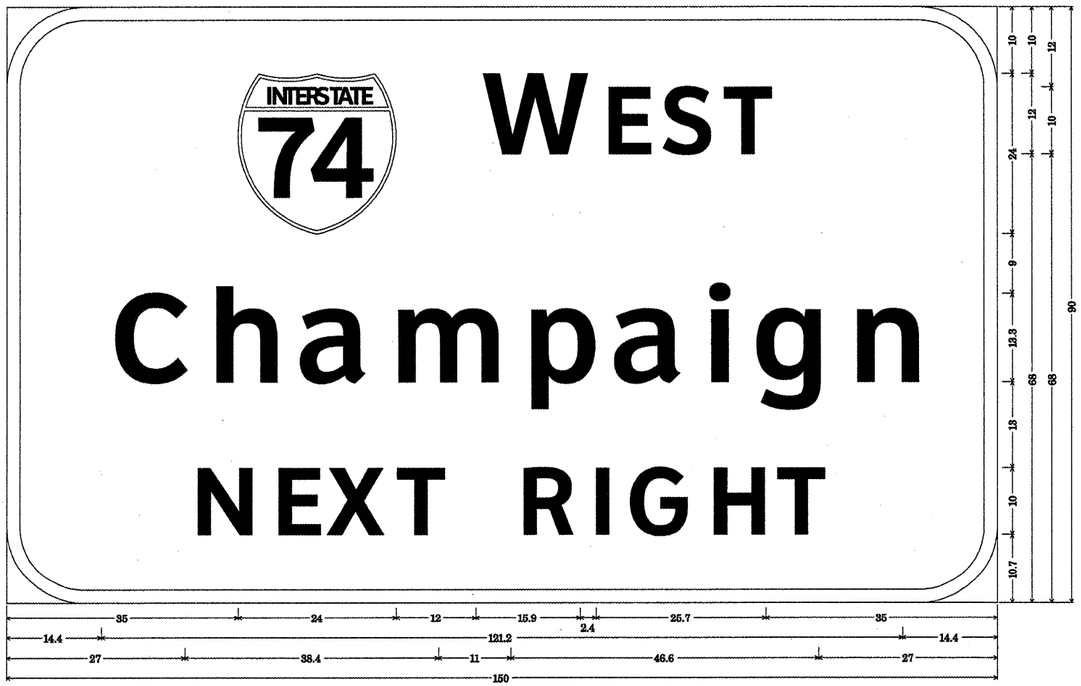
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – VERMILION CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	16
*	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

GM–3
5 C 092 S001 L027.25



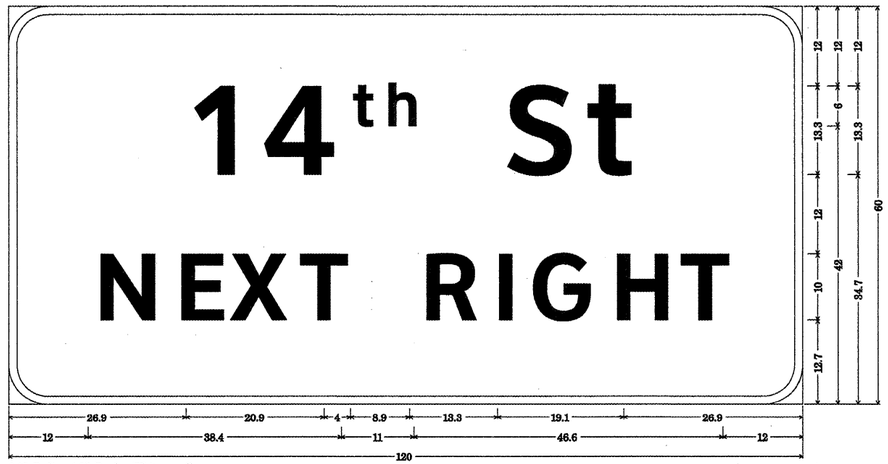
12.0" Radius, 2.0" Border, White on Green;
[W EST] ClearviewHwy–5–W; [Champaign] ClearviewHwy–5–W; [NEXT RIGHT] ClearviewHwy–5–W;
Table of letter and object lefts.

W	W	E	S	T
35.0	71.0	89.3	98.3	107.7

C	h	a	m	p	a	i	g	n
14.4	29.3	42.8	56.9	77.0	90.4	104.2	111.6	126.4

N	E	X	T	R	I	G	H	T
27.0	39.3	47.8	58.2	76.4	87.3	92.9	105.1	115.8

GM–4
5 C 092 S001 R027.23



6.0" Radius, 1.3" Border, White on Green;
[14] ClearviewHwy–5–W; [th] ClearviewHwy–5–W; [St] ClearviewHwy–5–W; [NEXT RIGHT] ClearviewHwy–5–W;
Table of letter and object lefts.

1	4	t	h	S	t
26.9	37.2	51.8	56.5	74.0	86.5

N	E	X	T	R	I	G	H	T
12.0	24.3	32.8	43.2	61.4	72.3	77.9	90.1	100.8

FILE NAME =	USER NAME = craigre	DESIGNED -	REVISED -
c:\pw_work\PWIDOT\CRAIGRE\d0180151\D546128-sht-sign_details.dgn		DRAWN -	REVISED -
	PLOT SCALE = 48.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/4/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – VERMILION CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	17
*	Various	CONTRACT NO. 46110		
	ILLINOIS	FED. AID PROJECT		

GM–5

5 C 092 S001 R027.03

12.0" Radius, 2.0" Border, White on Green;
[Indianapolis] ClearviewHwy–5–W; [NEXT RIGHT] ClearviewHwy–5–W;
Table of letter and object lefts.

72.0	

I	n	d	i	a	n	a	p	o	l	i	s
15.7	23.5	37.3	51.7	58.8	72.9	86.4	100.6	114.2	129.0	137.0	143.8

N	E	X	T	E	I	G	H	T	
36.0	48.3	56.8	67.2	85.4	96.3	101.9	114.1	124.8	

FILE NAME = c:\pw_work\PWIDOT\CRAIGRE\d0180151\D546128-sht-sign_details.dgn	USER NAME = craigre	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 48.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/4/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

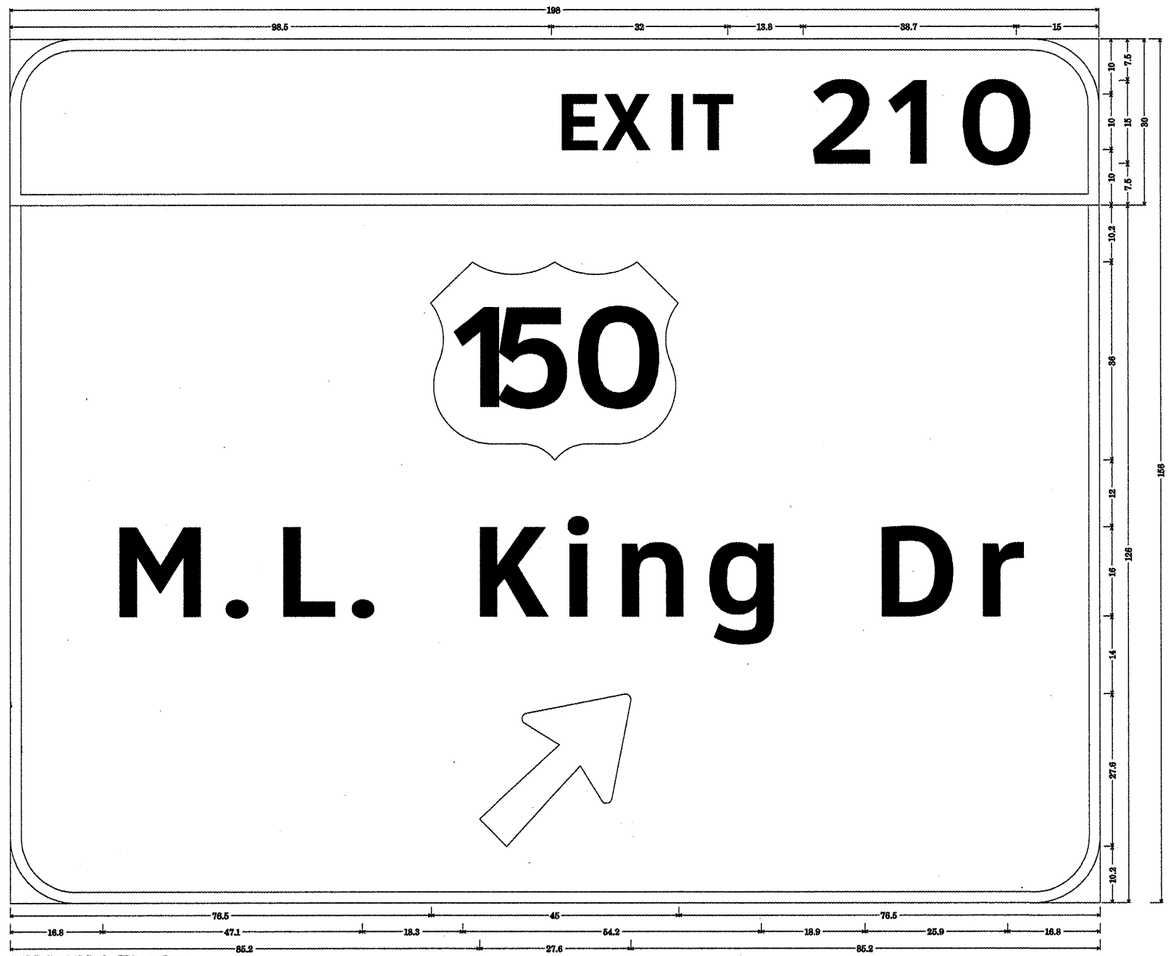
SIGNING DETAILS – VERMILION CO.

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	18
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

GM–6

5 C 092 I074 R209.90



12.0" Radius, 2.0" Border, White on Green;
[EXIT 210] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[M.L. King Dr] ClearviewHwy-5-W; Arrow 160 – 35.0" 45[;
Table of letter and object lefts.

E 98.5	X 107.0	] 118.4	T 133.3	2 144.3	1 158.4	0 170.8	
69 76.5							
M 16.8	. 37.0	L 46.5	. 59.9	K 82.2	i 98.7	n 108.2	g 194.5	D 155.3	r 173.8
37 85.2									

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

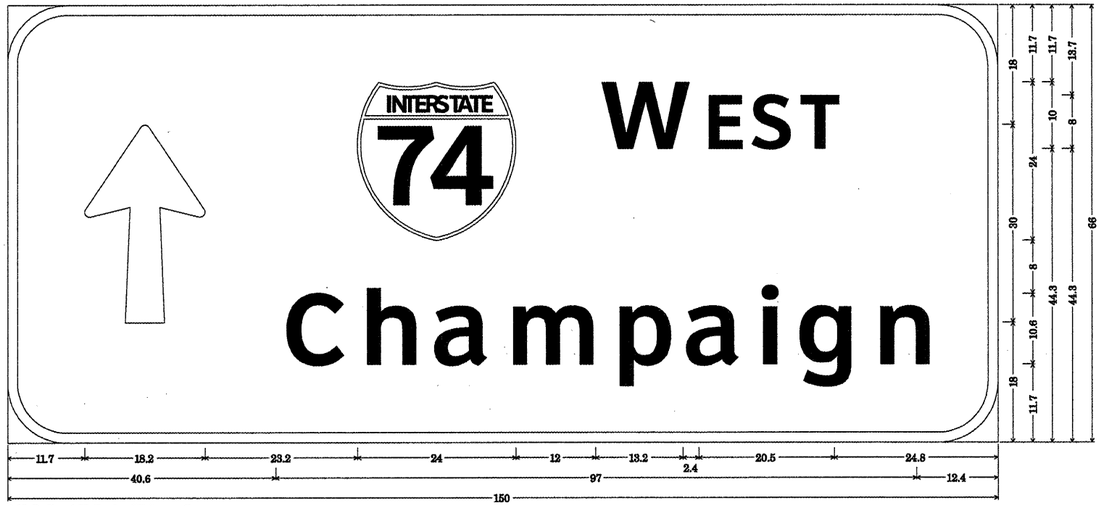
SIGNING DETAILS – VERMILION CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	19
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

GM–7

5 C 092 I074 L213.60



9.0" Radius, 1.5" Border, White on Green;
Arrow 133 – 30.0" 90{; [W EST] ClearviewHwy-5-W; [Champaign] ClearviewHwy-5-W;
Table of letter and object lefts.

11.7	53.1	89.1	104.7	111.9	119.4

C	h	a	m	p	a	i	g	n
40.6	52.5	63.3	74.7	90.8	101.4	112.5	118.4	130.2

GM–8

5 C 092 I074 R213.70

9.0" Radius, 1.5" Border, White on Green;
Arrow 133 – 30.0" 90{; [E AST] ClearviewHwy-5-W; [Indianapolis] ClearviewHwy-5-W;
Table of letter and object lefts.

11.5	61.5	97.5	106.2	115.5	123.0

I	n	d	i	a	n	a	p	o	l	i	s
40.5	46.7	57.8	69.3	74.9	86.3	97.1	108.4	119.3	131.2	137.5	143.0

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – VERMILION CO.

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	20
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

GM–9

5 C 092 I074 L213.79

12.0" Radius, 2.0" Border, White on Green;
[EXIT 214] ClearviewHwy–5–W;
12.0" Radius, 2.0" Border, White on Green;
[G Street] ClearviewHwy–5–W; Arrow 160 – 35.0" 45{;
Table of letter and object lefts.

E	X	I	T	2	1	4	
45.6	54.1	65.5	70.4	91.4	105.5	117.1	
G	S	t	r	e	e	t	
16.9	48.1	63.1	75.8	87.1	103.7	119.2	
58.2							

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	PLOT DATE = 2/4/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

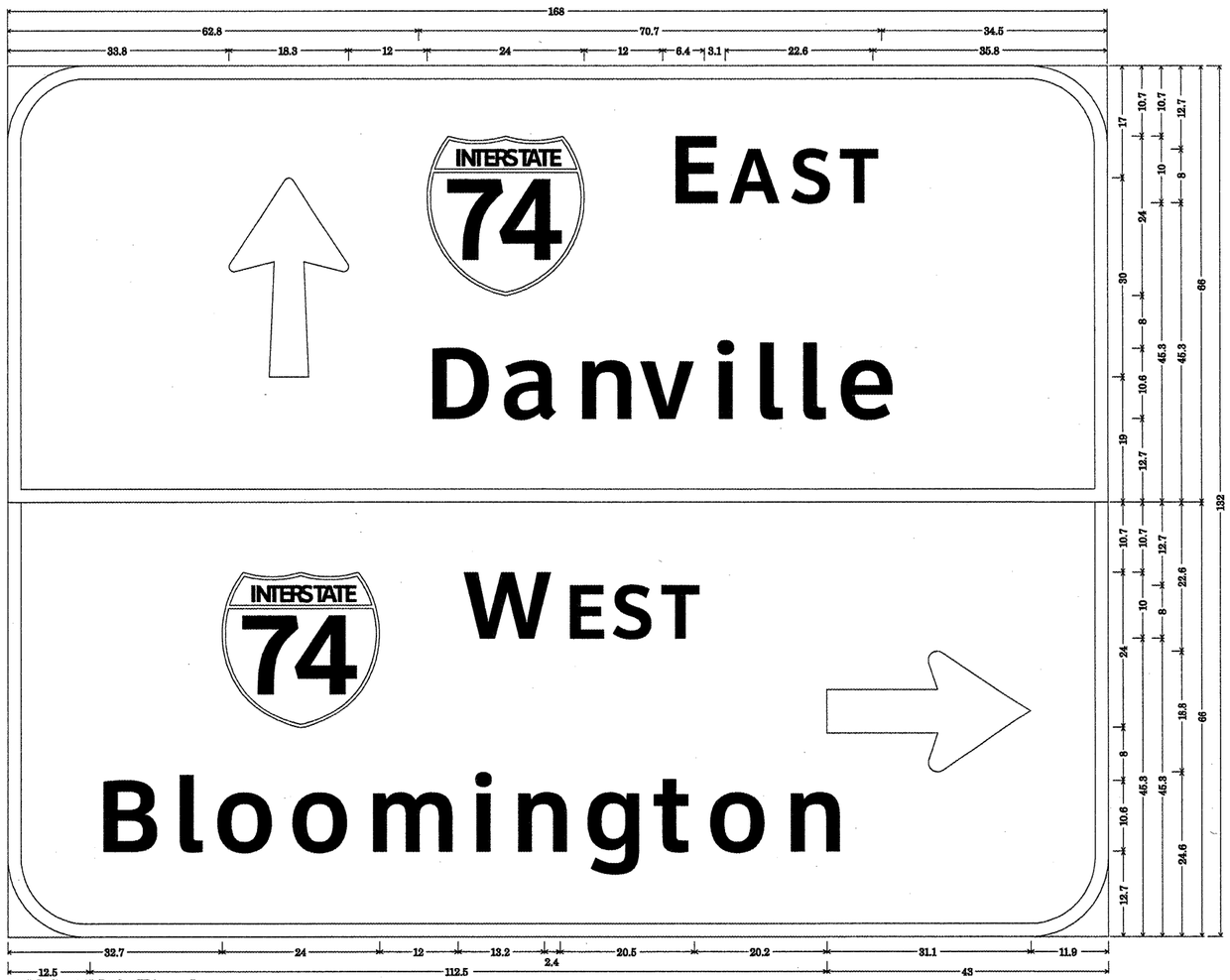
SIGNING DETAILS – VERMILION CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	21
* Various		CONTRACT NO. 46110		
ILLINOIS FED. AID PROJECT				

GM–10

5 C 010 I074 R000.05



12.0" Radius, 2.0" Border, White on Green;
Arrow 133 – 30.0" 90{; [E AST] ClearviewHwy–5–W; [Danville] ClearviewHwy–5–W;
12.0" Radius, 2.0" Border, White on Green;
[W EST] ClearviewHwy–5–W; [Bloomington] ClearviewHwy–5–W; Standard Arrow Custom 31.1" X 18.8" 0{;
Table of letter and object lefts.

⇧ 33.8	M 64.1	E 100.1	A 109.6	S 118.9	T 126.4	
D 62.8	a 74.5	n 85.8	v 95.9	i 106.6	l 113.0	l 119.5	e 125.7
M 32.7	W 68.7	E 84.3	S 91.5	T 99.1	⇨ 125.0	
B 12.5	l 24.3	o 30.4	o 41.9	m 53.8	i 69.6	n 75.9	g 87.0	t 97.7	o 105.7	n 117.6

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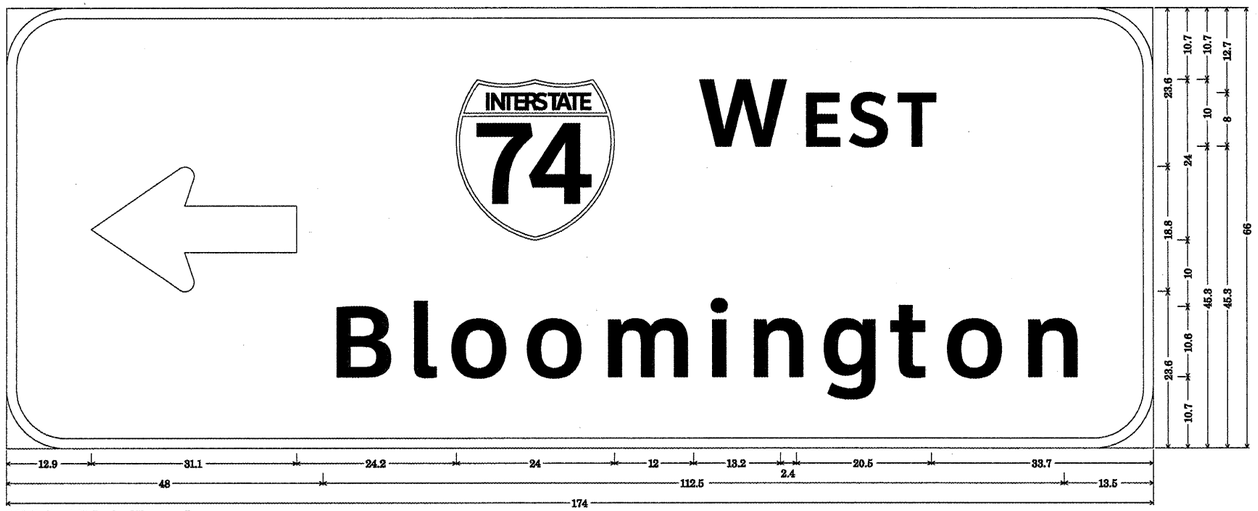
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – CHAMPAIGN CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	22
*	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

GM–11
5 C 010 I074 R000.13

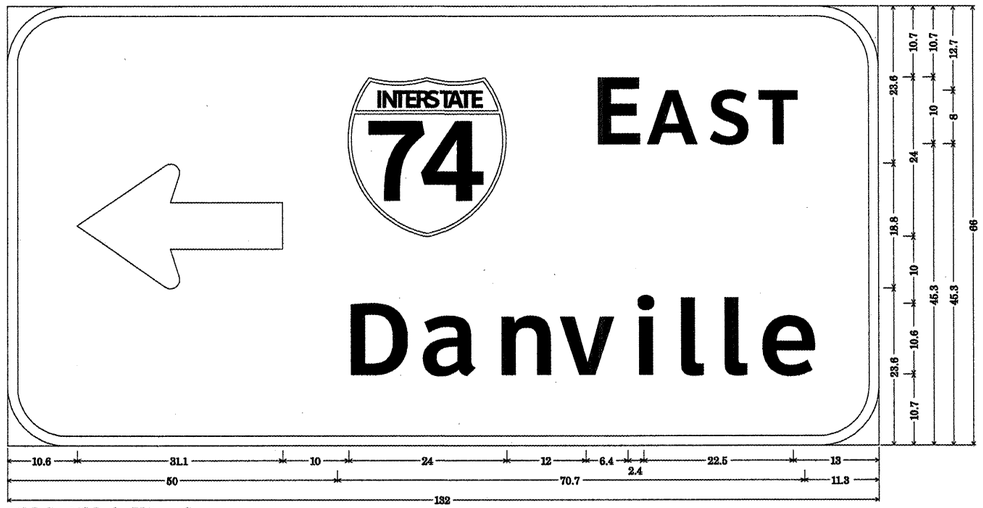


9.0" Radius, 1.5" Border, White on Green;
Standard Arrow Custom 31.1" X 18.8" 180{; [W EST] ClearviewHwy-5-W; [Bloomington] ClearviewHwy-5-W;
Table of letter and object lefts.

⇦	W	E	S	T
12.9	68.2	104.2	119.8	127.0	134.5

B	l	o	o	m	i	n	g	t	o	n
48.0	59.8	65.9	77.4	89.2	105.1	111.4	122.4	133.2	141.2	153.0

GM–12
5 C 010 I074 R000.19



9.0" Radius, 1.5" Border, White on Green;
Standard Arrow Custom 31.1" X 18.8" 180{; [E AST] ClearviewHwy-5-W; [Danville] ClearviewHwy-5-W;
Table of letter and object lefts.

⇦	W	E	A	S	T
10.6	51.7	87.7	96.5	105.7	113.3

D	a	n	v	i	l	l	e
50.0	61.7	73.0	83.1	93.9	100.2	106.8	112.9

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

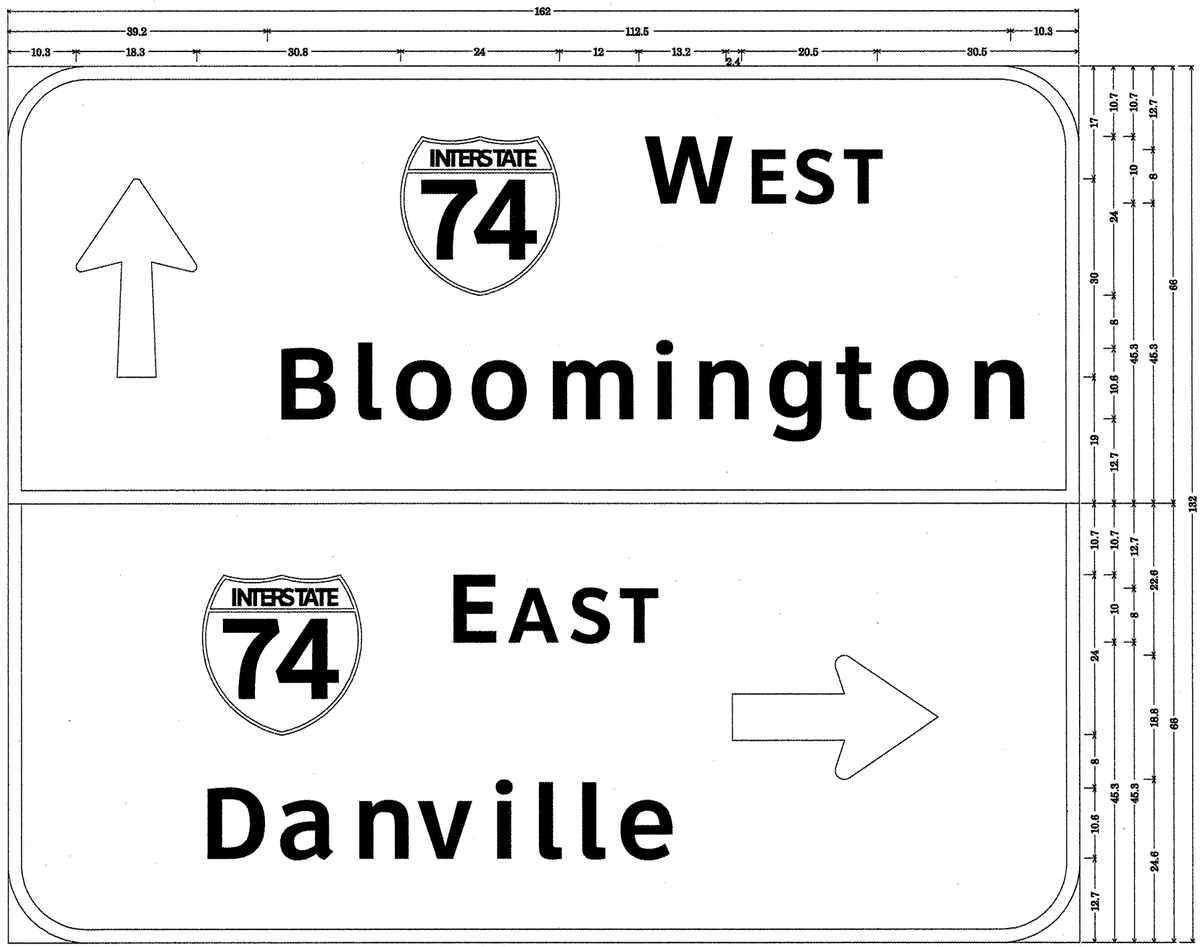
SIGNING DETAILS – CHAMPAIGN CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	23
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

GM–13

5 C 010 I074 L000.29



12.0" Radius, 2.0" Border, White on Green;
Arrow 133 – 30.0" 90{; [W EST] ClearviewHwy–5–W; [Bloomington] ClearviewHwy–5–W;
12.0" Radius, 2.0" Border, White on Green;
[E AST] ClearviewHwy–5–W; [Danville] ClearviewHwy–5–W; Standard Arrow Custom 31.1" X 18.8" 0{;
Table of letter and object lefts.

⇧ 10.3	W 59.4	W 95.4	E 111.0	S 118.2	T 125.7

B 39.2	l 51.0	o 57.1	o 68.6	m 80.5	i 96.3	n 102.6	g 113.7	t 124.4	o 132.4	n 144.3

W 29.4	E 65.4	A 75.0	S 84.2	T 91.7	⇨ 109.5

D 28.1	a 39.8	n 51.1	v 61.2	i 71.9	l 78.3	l 84.8	o 91.0

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS – CHAMPAIGN CO.

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	24
* Various.		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

MCLEAN COUNTY SIGN STRUCTURES
ILLINOIS 9 @ LOOP 55 /VETERANS PARKWAY

Location No.	OSSR-A		
Structure No.	5 S 057 S009 R019.00		
County / Route	MCLEAN CO. - ILLINOIS 9 - just west of Bus. Loop I-55		
Scope of Work	This overhead sign structure is being replaced on existing foundations.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	264.50
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	329.50
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	80.00
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00
73800100	STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	2.00
T9996300	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X7330105	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	60.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	OSSR-C		
Structure No.	5 S 057 S009 R019.40		
County / Route	MCLEAN CO. - ILLINOIS 9 - just west of Bus. Loop I-55		
Scope of Work	This overhead sign structure is being replaced on existing foundations.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	458.50
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	472.75
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	110.00
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00
73800100	STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	2.00
T9996300	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X7330105	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	102.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	OSSR-B		
Structure No.	5 S 057 S009 R019.10		
County / Route	MCLEAN CO. - ILLINOIS 9 - just west of Bus. Loop I-55		
Scope of Work	This overhead sign structure is being replaced on existing foundations.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	397.25
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	428.75
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	130.00
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1.00
73800100	STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - SPAN	EACH	2.00
T9996300	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	4.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X7330105	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	106.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

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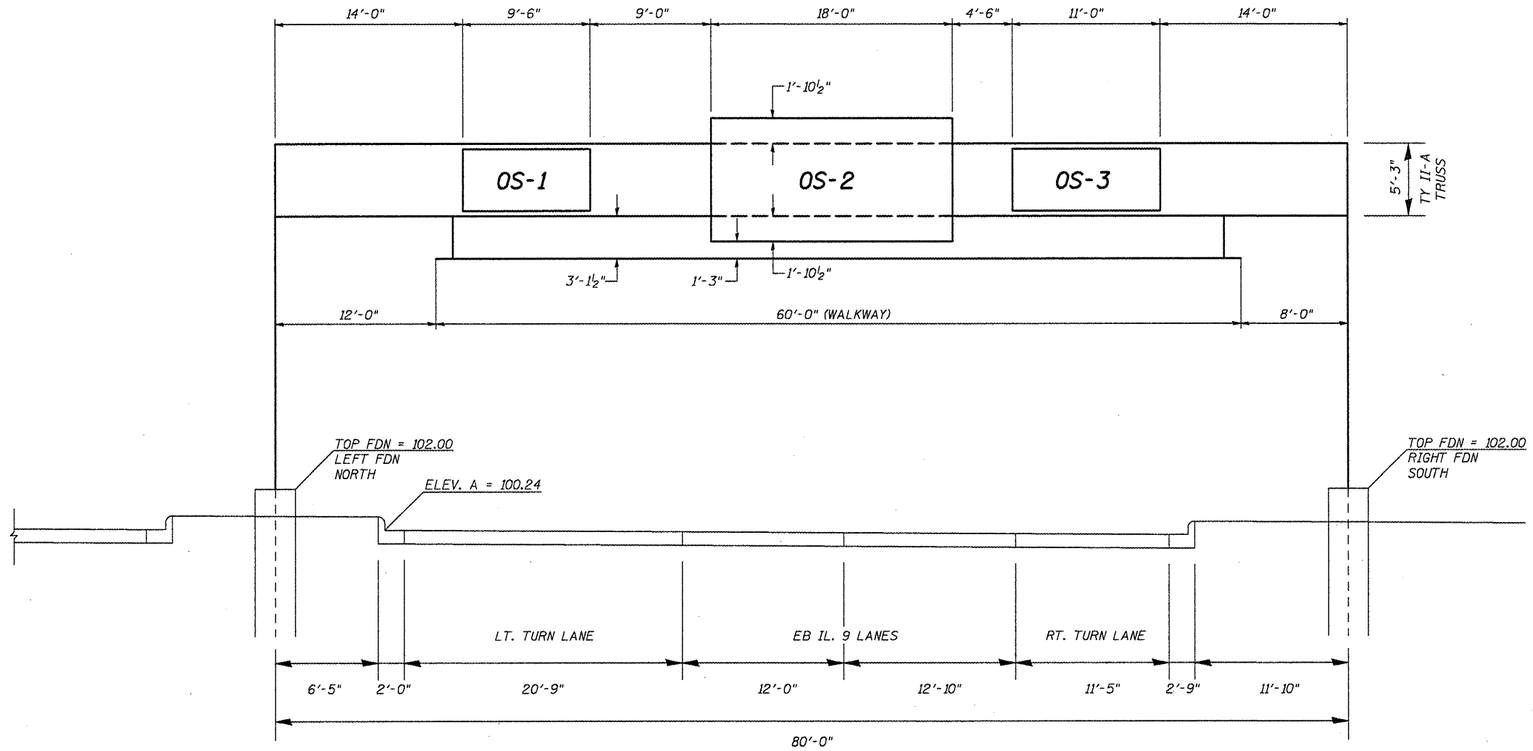
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MCLEAN COUNTY SIGN STRUCTURES
ILLINOIS 9 @ LOOP 55 /VETERANS PARKWAY

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	D-5 OSS REPL 2010-46	Various	77	25
-	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

SIGN TRUSS MOUNTING DETAIL
5 S 057 S009 R019.00 – OSSR–A



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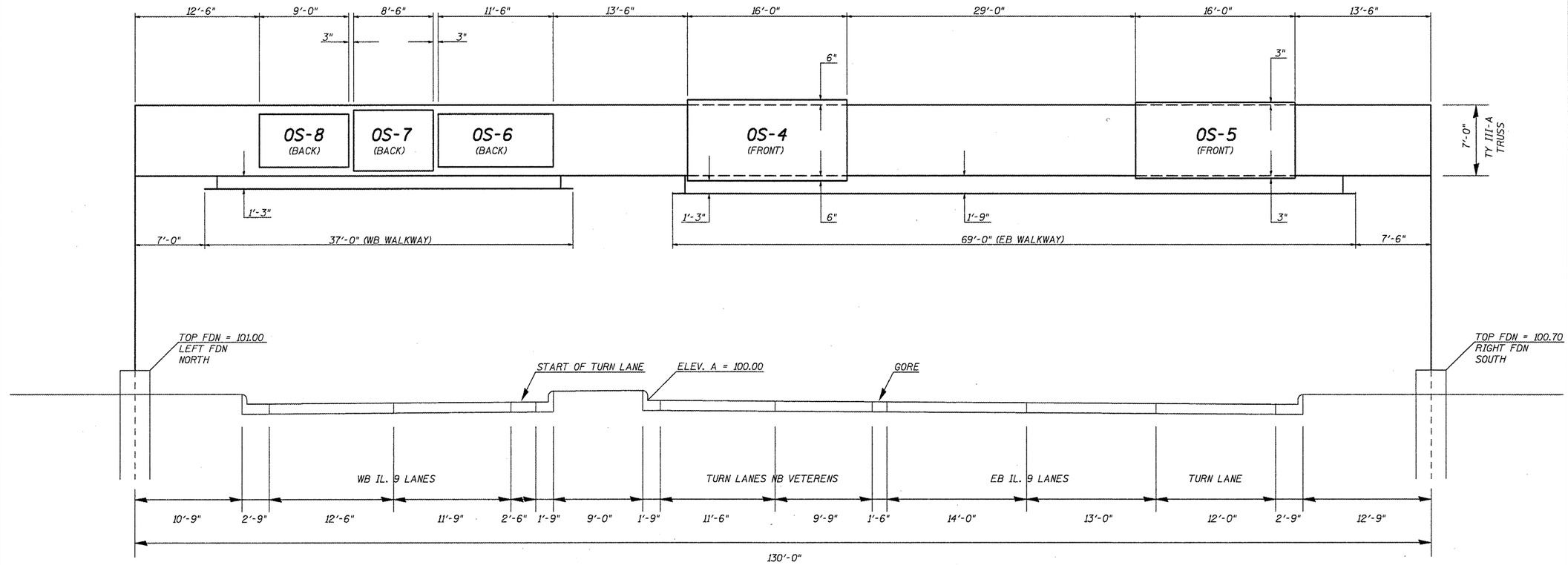
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN TRUSS MOUNTING DETAIL

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	26
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

SIGN TRUSS MOUNTING DETAIL
5 S 057 S009 R019.10 – OSSR–B



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	PLOT DATE = 2/4/2018	DATE -	REVISED -

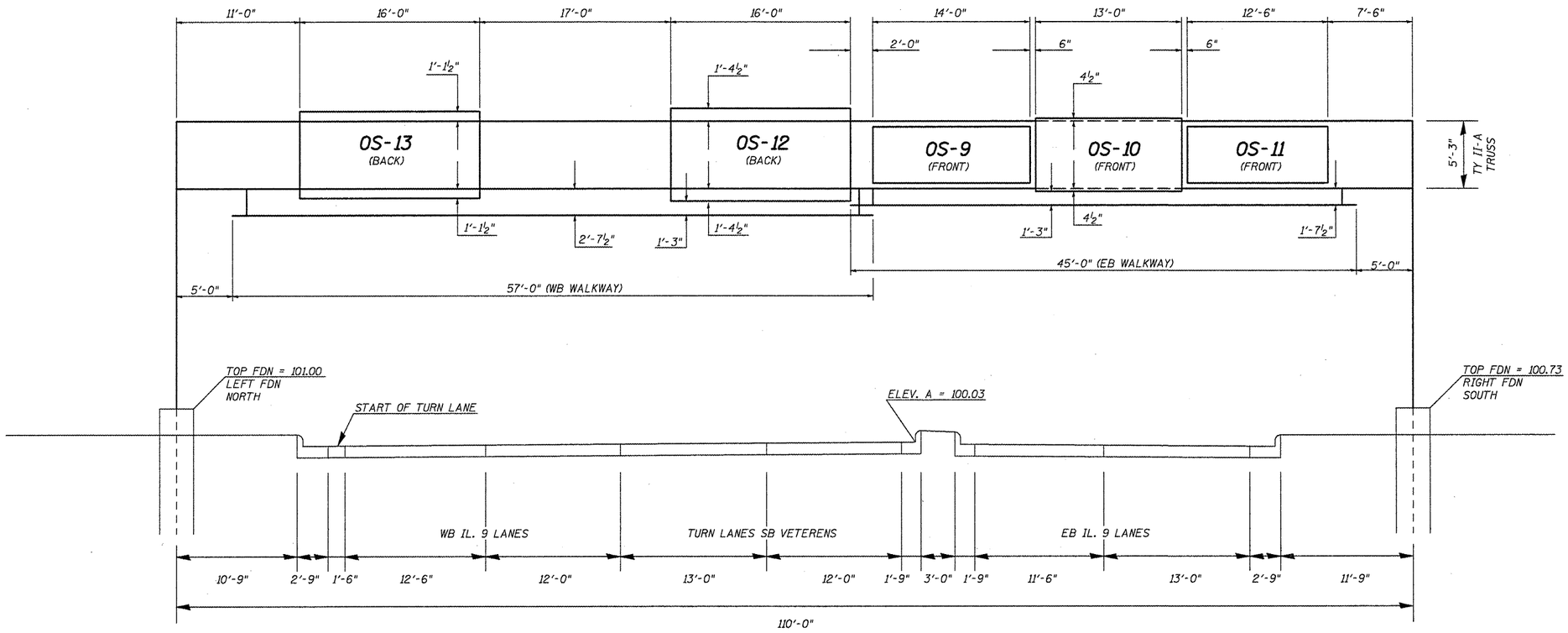
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN TRUSS MOUNTING DETAIL

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	27
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

SIGN TRUSS MOUNTING DETAIL
5 S 057 S009 R019.40 – OSSR–C



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN TRUSS MOUNTING DETAIL

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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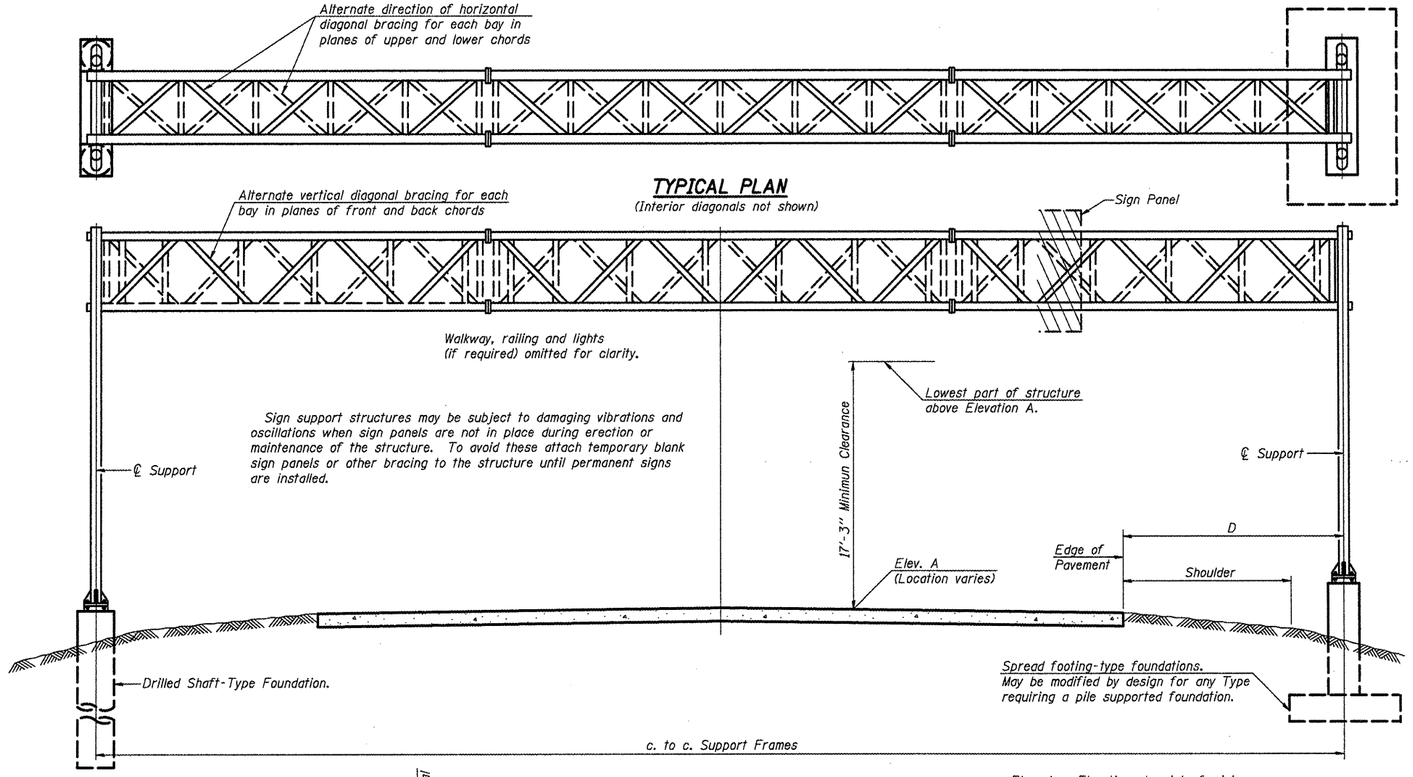
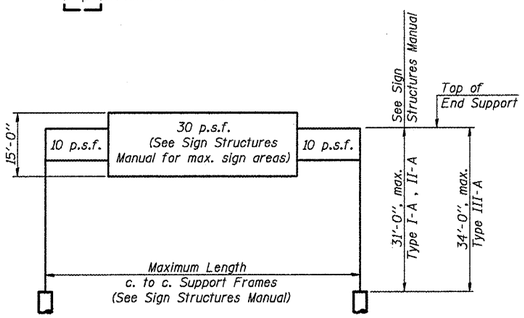
- Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



TYPICAL PLAN

(Interior diagonals not shown)



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**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign ****	Total Sign Area
5 S 057 S009 R019.00	148+15	II-A	80'-0"	100.24	***	9'-0"	264.5
5 S 057 S009 R019.10	156+50	III-A	130'-0"	100.00	***	8'-0"	397.25
5 S 057 S009 R019.40	170+70	II-A	110'-0"	100.03	***	8'-0"	458.5

**Looking upstation for structures with signs both sides.

***See sign truss mounting details.

****End support heights based on 15'-0" sign height per OS-A-6 & OS4-A-8a

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.
fy = 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 Specificiations.

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 at 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 AASHTO M314 Gr. 36, 55 or 105 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

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.

* 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.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	190.0
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	130.0
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	268.0

NUMBER	REVISION	DATE

OS-A-1

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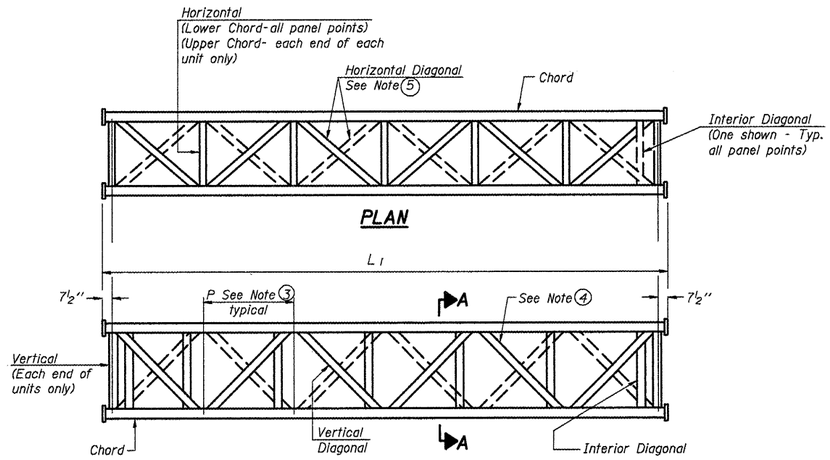
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

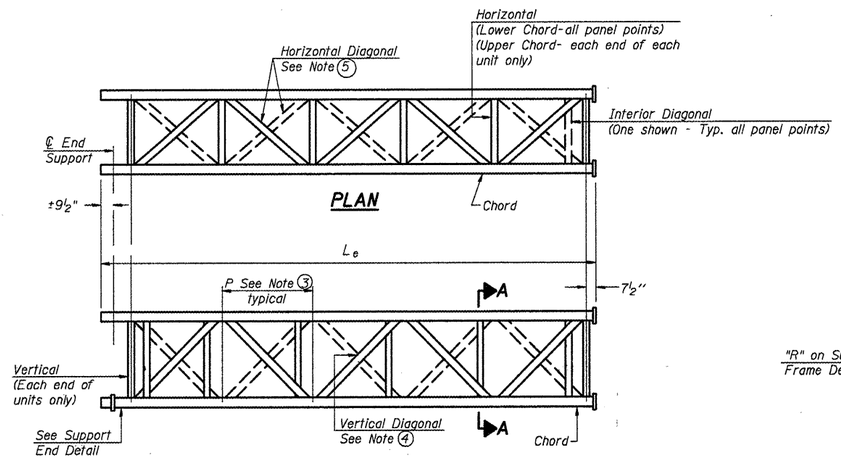
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	29
*	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



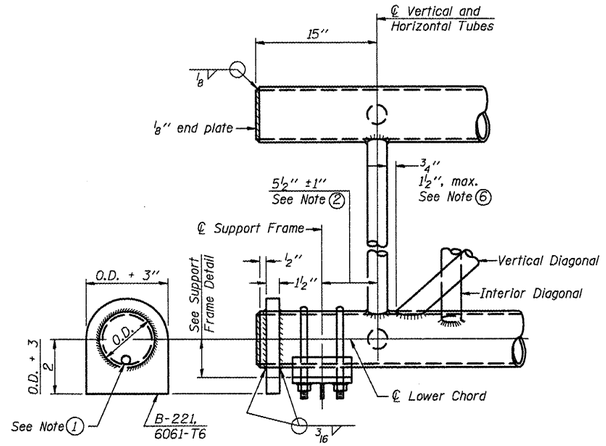
ELEVATION
TYPICAL INTERIOR UNIT

Even number of panels/interior unit required.

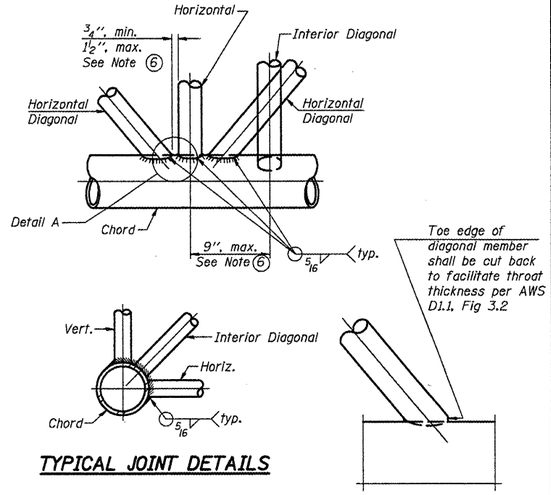


ELEVATION
TYPICAL EXTERIOR UNIT

Even or odd number of panels/exterior units allowed.

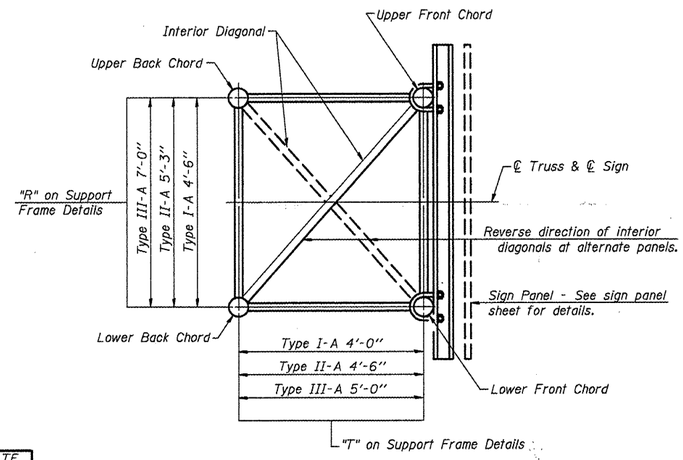


SUPPORT END DETAIL FOR EXTERIOR UNIT



TYPICAL JOINT DETAILS

DETAIL A



SECTION A-A

1. *Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)*
2. *5½" 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 ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.*

NUMBER	REVISION	DATE

OS-A-2

FILE NAME =	USER NAME = pearlockjd	DESIGNED -	REVISED -
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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

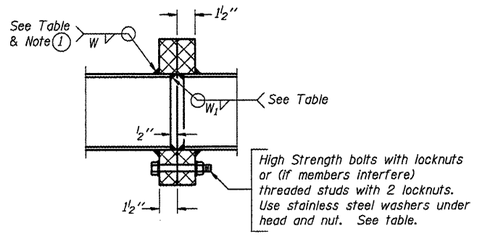
OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	30
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

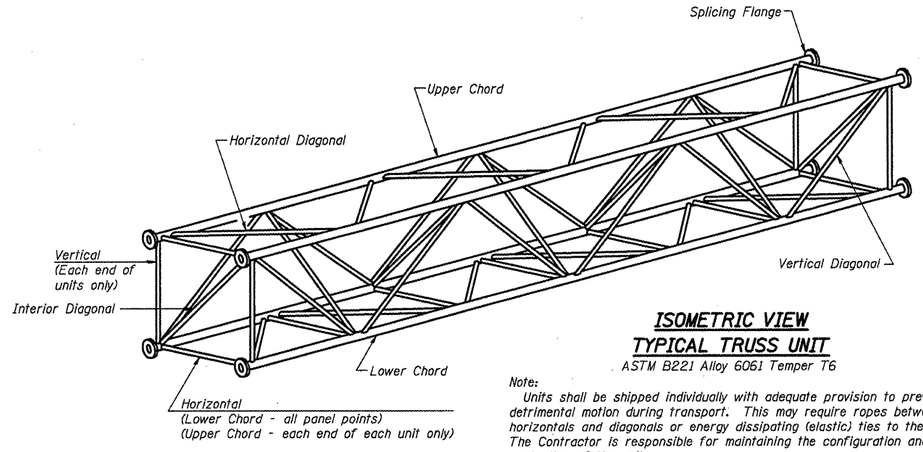
TRUSS UNIT TABLE

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_e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L_i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W_1		
5 S 057 S009 R019.00	148+15	II-A	5	29'-2"	5'-5½"	1	4	23'-1"	5'-5½"	5½"	5/16"	3"	5/16"	2"	6	⅞"	⅜"	¼"	9¼"	12¼"
5 S 057 S009 R019.10	156+50	III-A	6	33'-3"	5'-2¾"	2	6	32'-7½"	5'-2¾"	7"	⅜"	3¼"	5/16"	3¾"	8	1"	9/16"	7/16"	11½"	15"
5 S 057 S009 R019.40	170+70	II-A	7	39'-2½"	5'-4"	1	6	33'-3"	5'-4"	6½"	5/16"	3"	5/16"	3¾"	6	1"	⅜"	¼"	11"	14½"



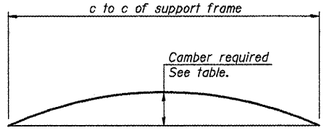
SECTION B-B

(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.



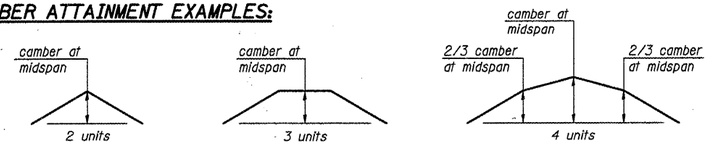
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

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.

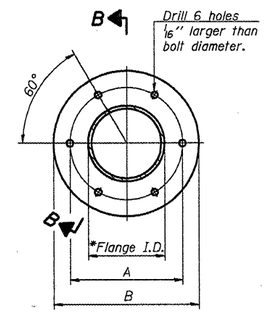


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

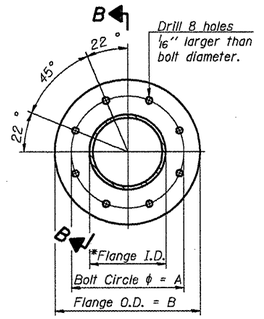
CAMBER ATTAINMENT EXAMPLES:



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".

NUMBER	REVISION	DATE

OS4-A-2

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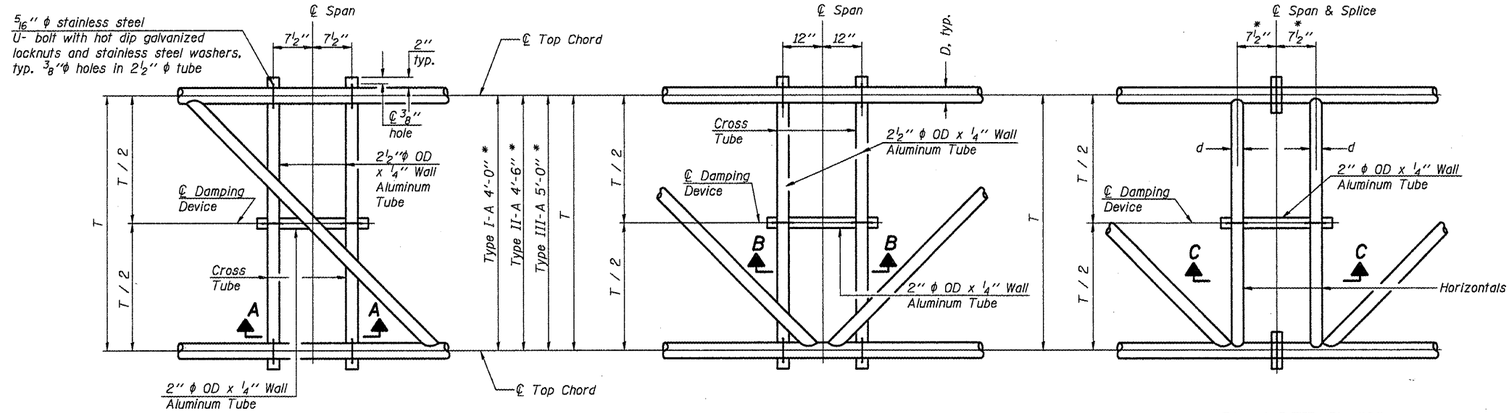
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	31
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

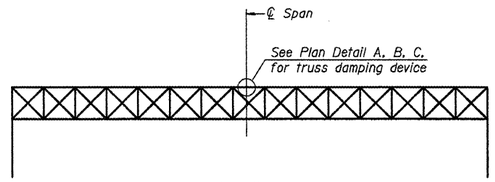
* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.



PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at ℄ Chord Splice

PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

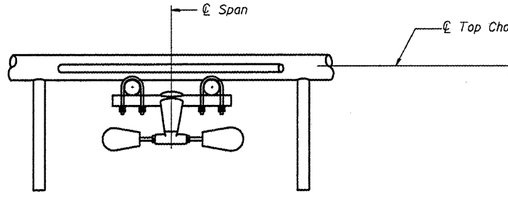


ELEVATION
Aluminum Overhead Sign Truss

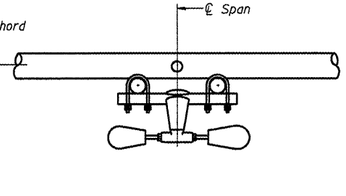
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

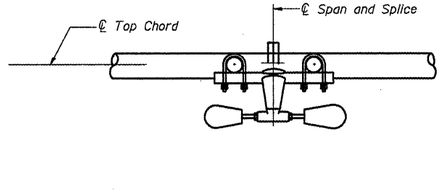
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



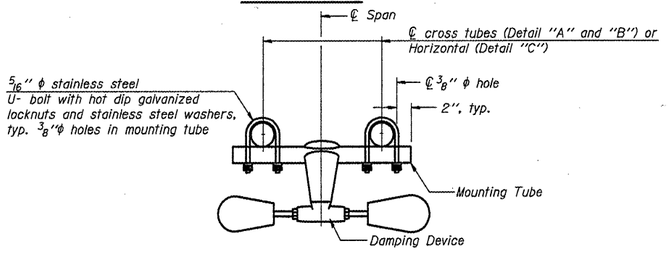
SECTION A-A



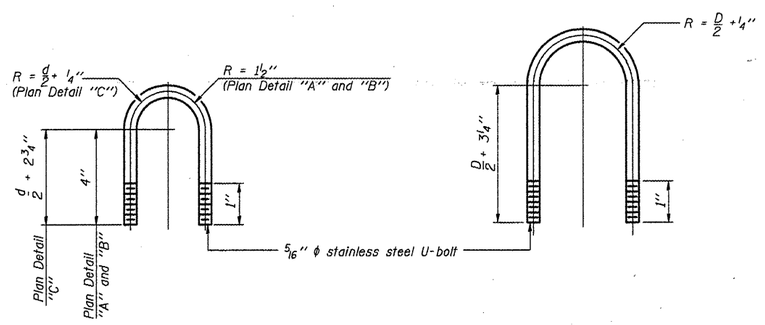
SECTION B-B



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")

OS-A-D

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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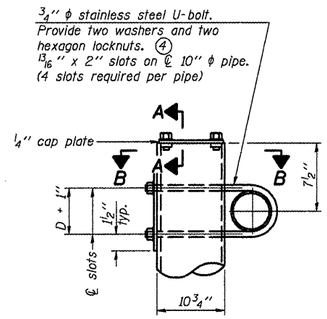
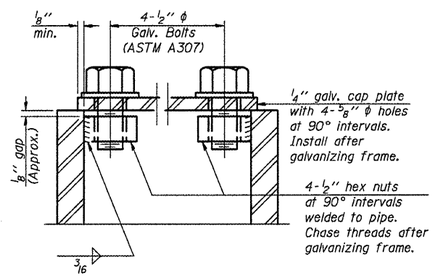
•	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

NON-STANDARD DESIGN

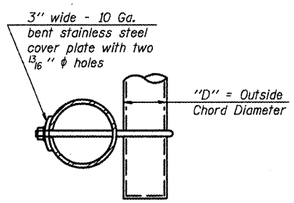


DETAIL A

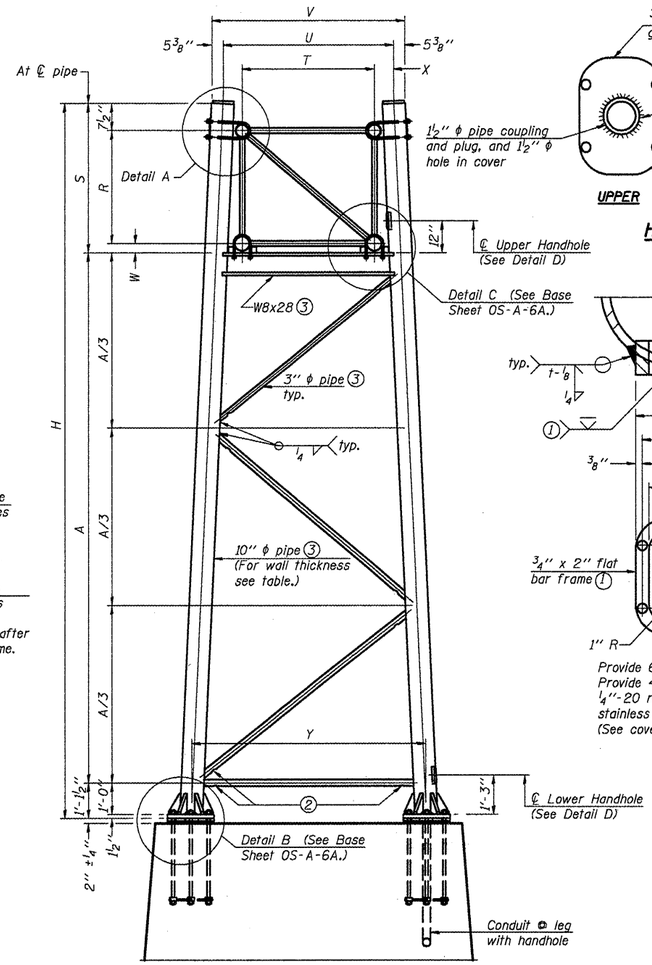


SECTION A-A

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

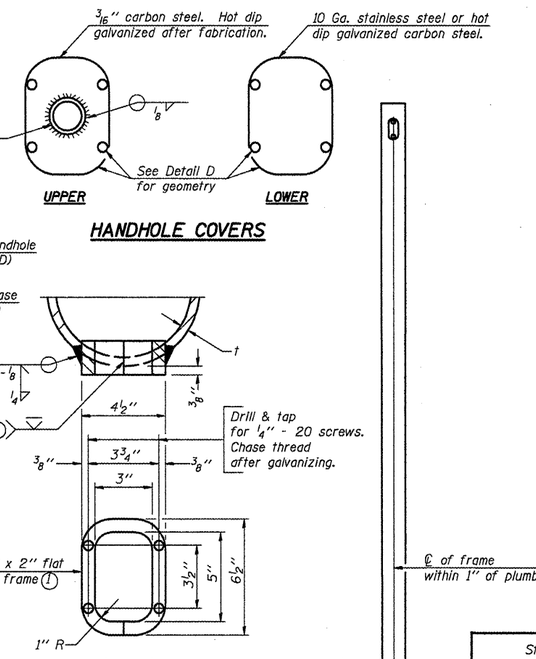


SECTION B-B



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

SIDE ELEVATION



HANDHOLE COVERS

Provide 6½" x 4½" cover.
Provide 4-5/16" ϕ holes in cover for 1/4"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

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 min 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.

Structure Number	Station	Support Left	Support Right	Truss Type	Pipe Wall Thickness	H (5)	A
5 S 057 S009 R019.00	148+15	x	x	II-A	0.365(STD)	28'-4 3/4"	21'-0"
5 S 057 S009 R019.40	170+70	NORTH		II-A	0.365(STD)	29'-1 1/2"	21'-8 3/4"
	170+70		SOUTH	II-A	0.365(STD)	29'-4 3/4"	22'-0"

NOTES: Structure No. 5S057S009R019.00 & 5S057S009R019.40

1. New End Supports to be installed on existing concrete foundations with existing anchor bolts. Provide new anchor bolt nuts and washers as necessary.
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".

NUMBER	REVISION	DATE

10" ϕ PIPE TRUSS SUPPORT FRAME

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

OS-A-6 * Non-Standard dimension to match existing foundations

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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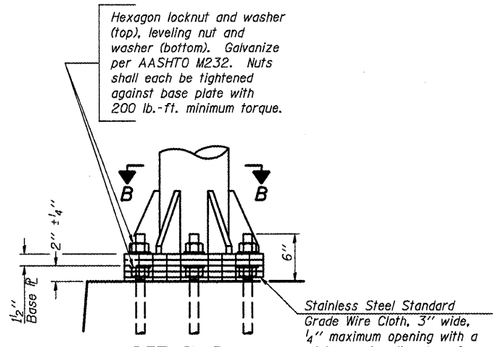
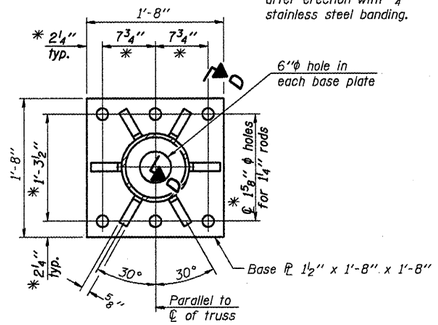
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

NON-STANDARD DESIGN

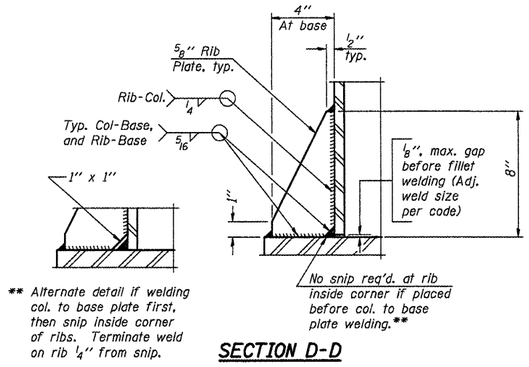


DETAIL B

Ribs shall be cut to fit slope of pipe.

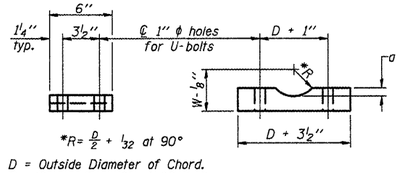


SECTION B-B



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

SECTION D-D



*R= D/2 + 1/32 at 90°

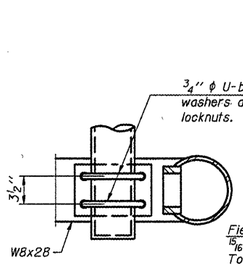
D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

SADDLE SHIM DETAIL

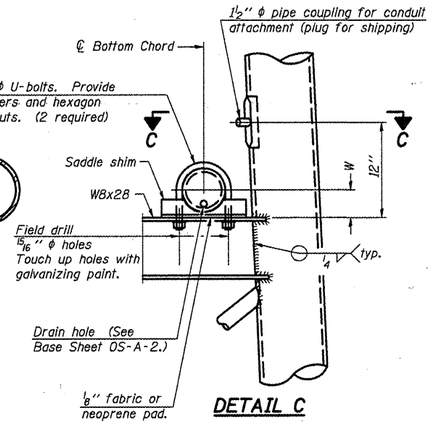
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

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

NUMBER	REVISION	DATE



SECTION C-C
(Handhole cover not shown)



DETAIL C

NOTES: Structure No. 5S057S009R019.00 & 5S057S009R019.40

1. New End Supports to be installed on existing concrete foundations with existing anchor bolts. Provide new anchor bolt nuts and washers as necessary.
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".

10" ϕ PIPE SUPPORT FRAME DETAILS

OS-A-6A * Non-Standard dimension to match existing foundations

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		DRAWN -	REVISED -
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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS ALUMINUM TRUSS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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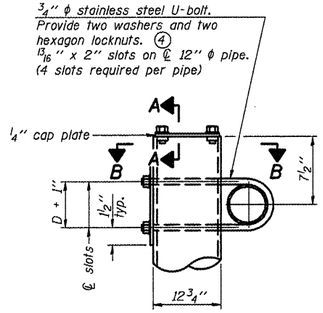
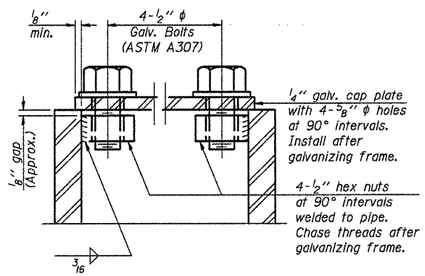
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

NON-STANDARD DESIGN

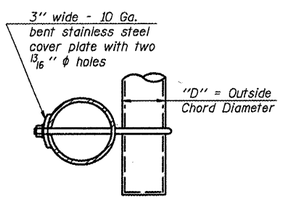


DETAIL A

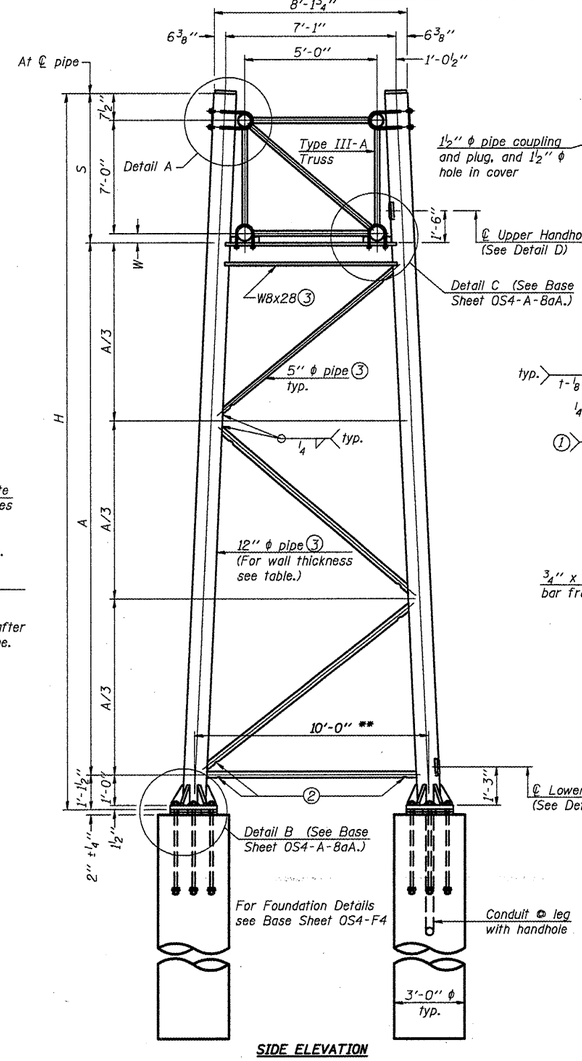


SECTION A-A

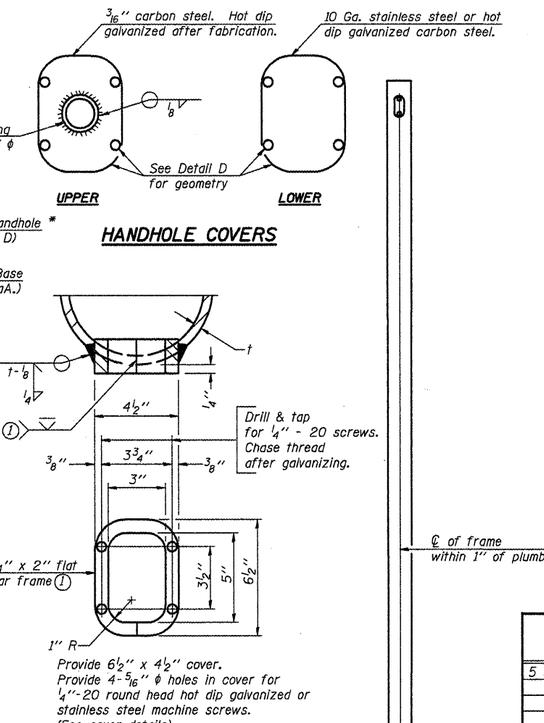
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION



HANDHOLE COVERS

Provide 6½" x 4½" cover.
Provide 4-5/16" ϕ holes in cover for ¼"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0¼"
8½"	5½"	8'-1"
9"	5 3/4"	8'-1¼"

TRUSS SUPPORT DETAILS

(12" ϕ Pipe-Type III-A Truss

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 min 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

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Structure Number	Station	Support Left	Support Right	Pipe Wall Thickness	H (6)	A
5 S 057 S009 R019.10	156+50	NORTH		0.33	29'-10¼"	20'-8½"
	156+50		SOUTH	0.33	30'-1 3/4"	21'-0"

NOTES: Structure No. 5S057S009R019.10

1. New End Supports to be installed on existing concrete foundations with existing anchor bolts. Provide new anchor bolt nuts and washers as necessary.
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".

NUMBER	REVISION	DATE

OS4-A-8a ** Non-Standard dimension to match existing foundations

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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2010	DATE -	REVISED -

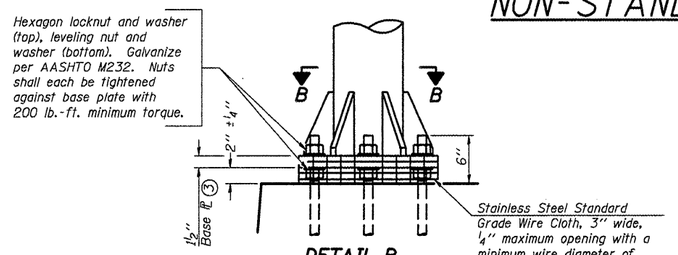
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

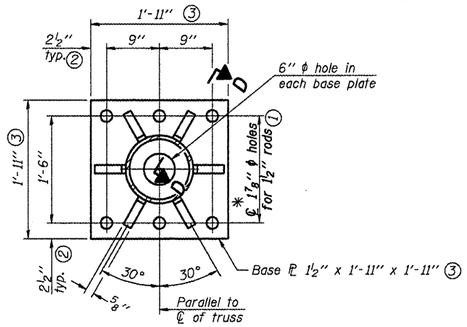
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	35
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

NON-STANDARD DESIGN

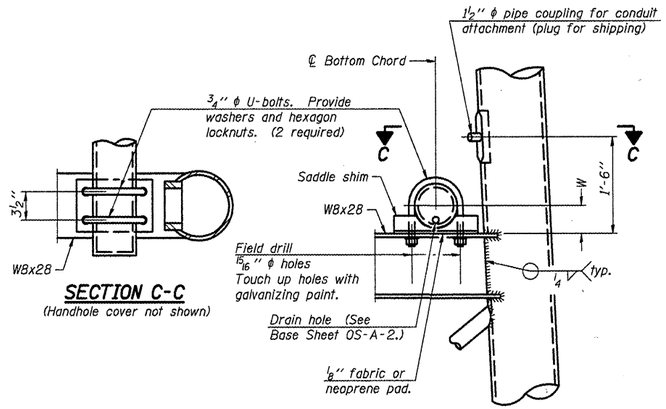


DETAIL B

Ribs shall be cut to fit slope of pipe.



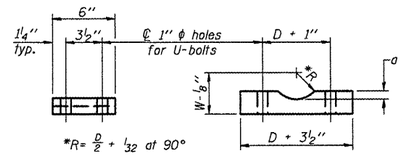
SECTION B-B



SECTION C-C

(Handhole cover not shown)

DETAIL C



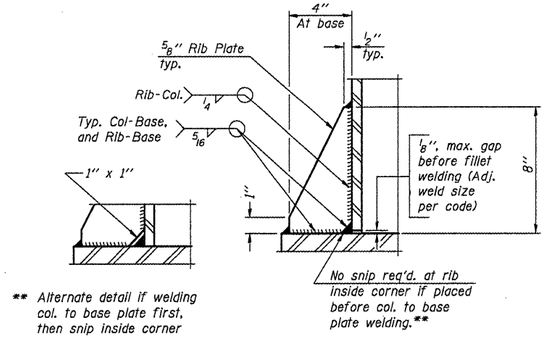
*R= D/2 + 1/32 at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

SADDLE SHIM DETAIL

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



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

SECTION D-D

TYPE III-A TRUSS
12" ϕ PIPE SUPPORT FRAME DETAILS

Notes:
For Type III-A Truss spans greater than 150 ft. and up to 160 ft.:

① 1 3/4" ϕ rod, 2" ϕ holes

② 2 3/4" edge distance

③ Base ℙ 1 5/8" x 1'-11 1/2" x 1'-11 1/2"

NOTES: Structure No. 5S057S009R019.10

1. New End Supports to be installed on existing concrete foundations with existing anchor bolts. Provide new anchor bolt nuts and washers as necessary.
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".

NUMBER	REVISION	DATE

OS4-A-8aA * Non-Standard dimension to match existing foundations

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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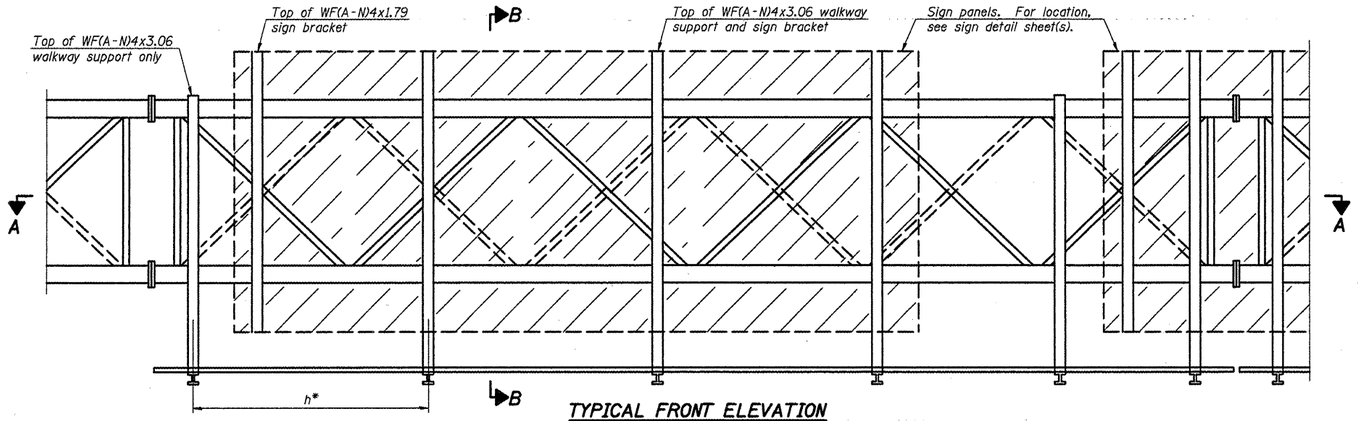
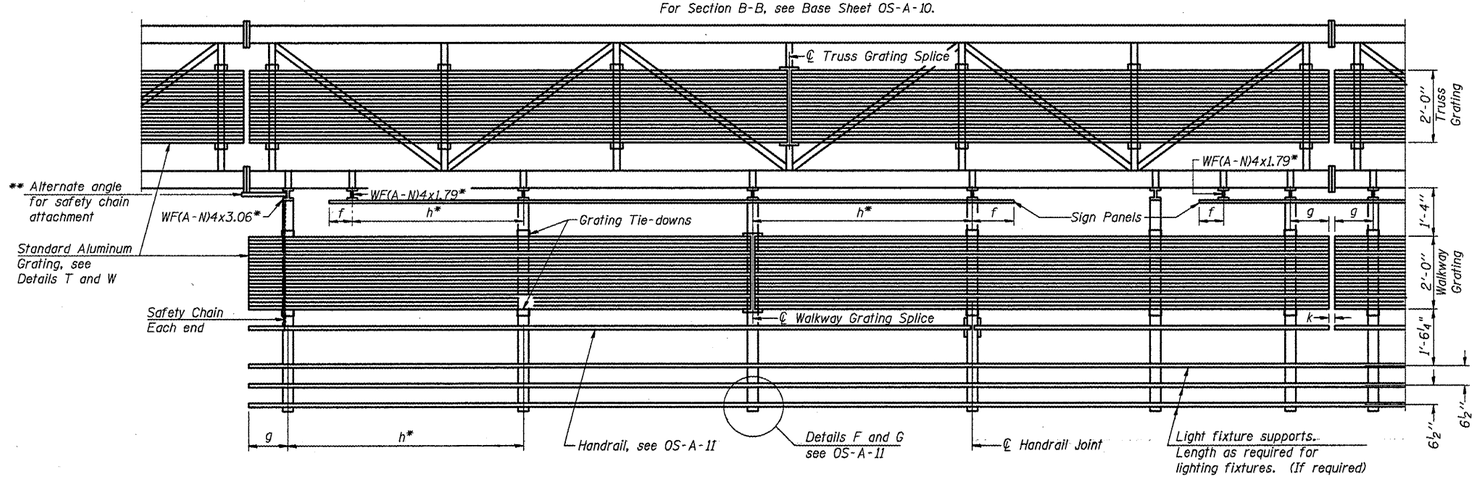
•	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



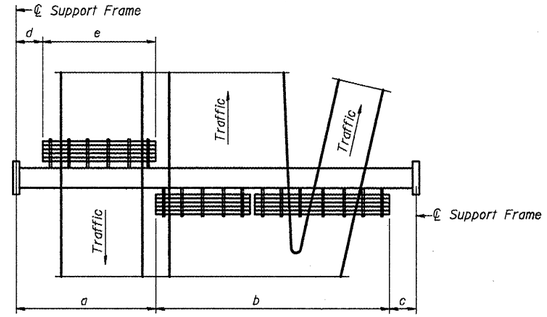
TYPICAL FRONT ELEVATION

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



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.



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"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-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 ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ 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

** *If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.*

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.

NUMBER	REVISION	DATE

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 ±½" based on available standard widths.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
5 S 057 S009 R019.00	148+15	12'-0"	60'-0"	8'-0"	-	-	60'-0"
5 S 057 S009 R019.10	156+50	53'-6"	69'-0"	7'-6"	7'-0"	37'-0"	69'(EB) & 37'(WB)
5 S 057 S009 R019.40	170+70	60'-0"	45'-0"	5'-0"	5'-0"	57'-0"	45'(EB) & 57'(WB)

OS-A-9

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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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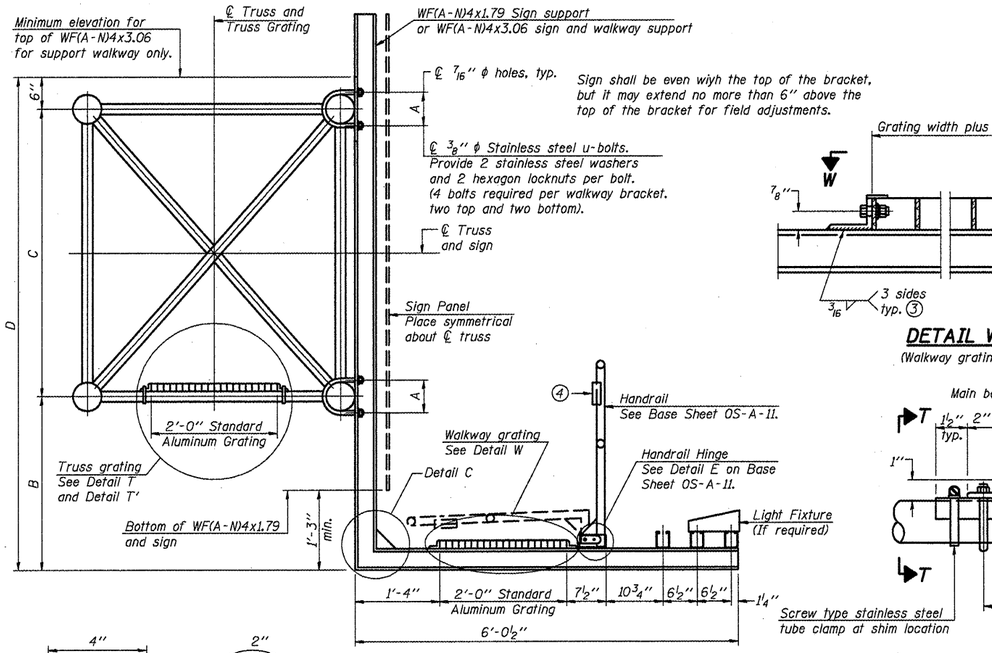
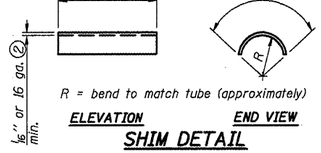
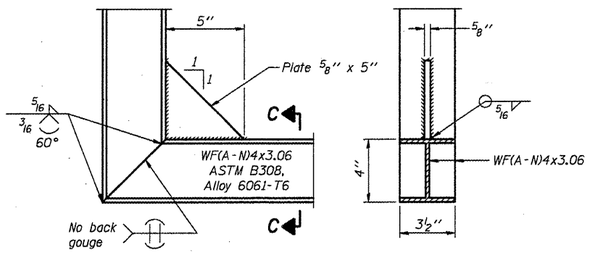
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



SECTION B-B

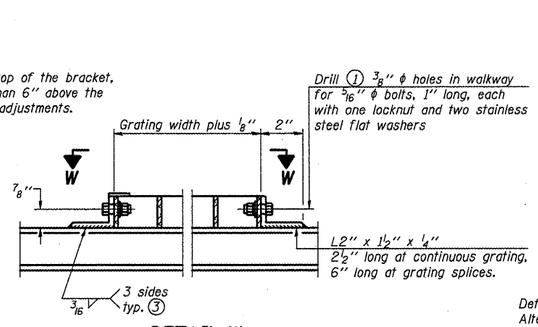


SHIM DETAIL



DETAIL C

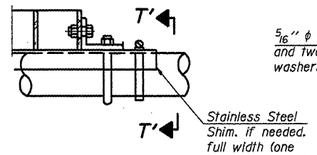
SECTION C-C



Sign shall be even wiyh the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

DETAIL W

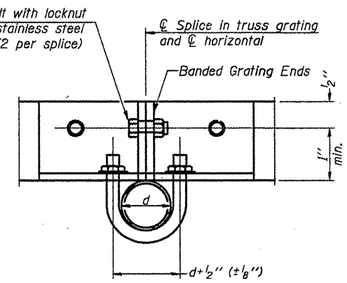
(Walkway grating)



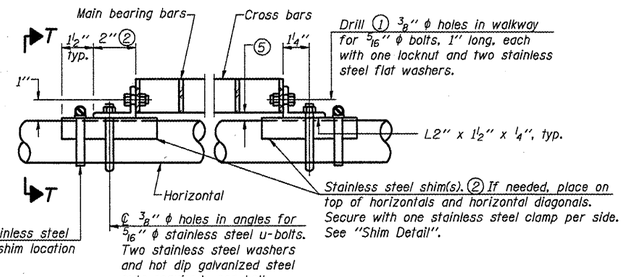
DETAIL T'

(Truss grating splice)

Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.

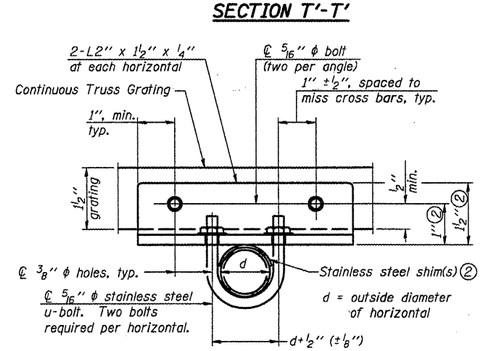


SECTION T'-T'

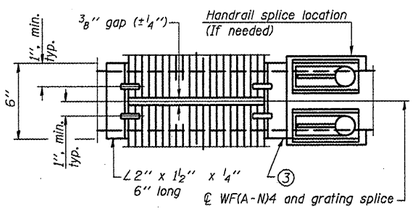


DETAIL T

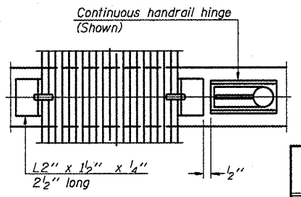
(Continuous Truss grating)



SECTION T-T



(AT WALKWAY GRATING SPLICE)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1-3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" 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.³ per bar, a depth of 1½", spaced on 1-3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	(6) B	C	(6) D
5 S 057 S009 R019.00	148+15	5 15/16"	3'-1½"	5'-3"	8'-10½" & VAR.
5 S 057 S009 R019.10	156+50	7 7/16"	*	7'-0"	*
5 S 057 S009 R019.40	170+70	6 15/16"	*	5'-3"	*
*Varies for EB & WB walkways - Use "Sign Truss Mounting Detail"- Sheets 26, 27, & 28, for the information needed to determine walkway support & sign support lengths.					

NUMBER	REVISION	DATE

(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 ¼" extension bars. (See Base Sheet OS-A-11.)

(4) PL ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.

(5) Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.

(6) Based on actual height of tallest sign given on OS-A-1.

OS-A-10

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		DRAWN -	REVISED -
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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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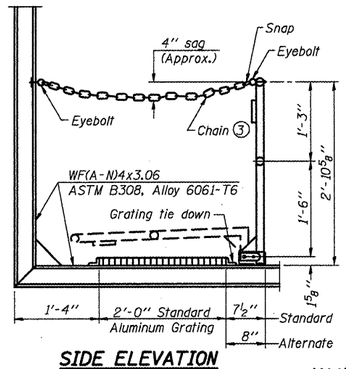
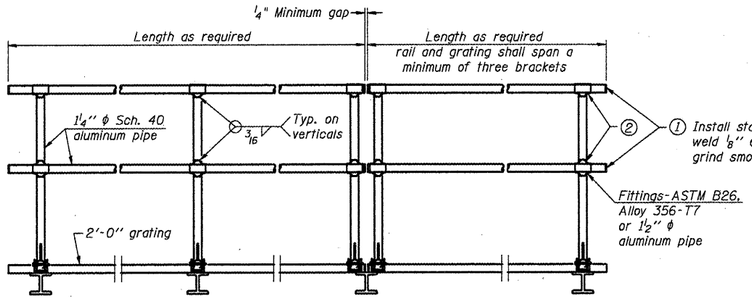
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



SIDE ELEVATION

(Showing safety chain w/o sign)



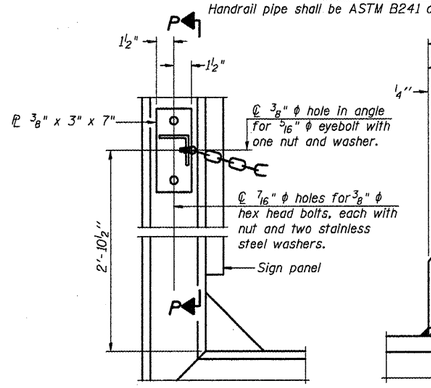
FRONT ELEVATION

(1) Install standard force-fit end caps or weld ⅛" end plates with ⅛" c.f.w. and grind smooth. (All rail ends)

(2) Horizontal handrail member shall be continuous thru fitting. Provide 7/16" ϕ hole in fitting for ⅜" ϕ bolt. Field drill 7/16" ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16"ϕ holes on top rail at ends only.)

HANDRAIL DETAILS

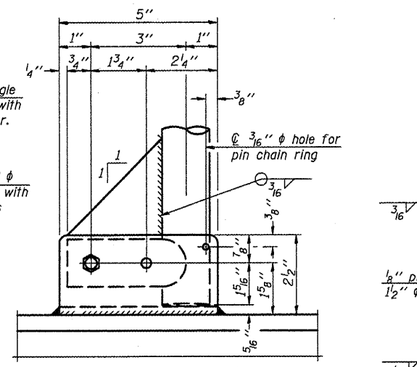
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.



ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)

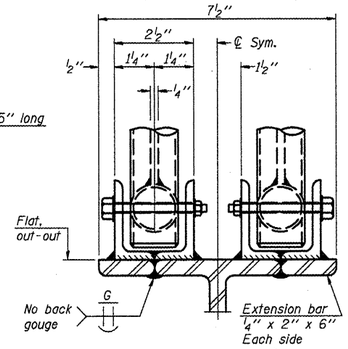
Items not shown same as "Side Elevation" of "Handrail Details"



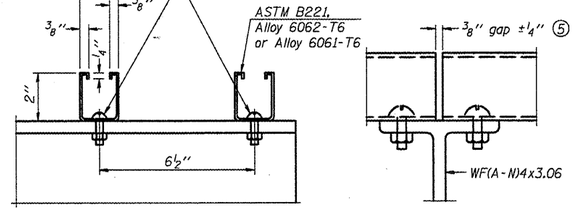
SIDE ELEVATION

FRONT ELEVATION

See "Elevation" at right for dimensions.



ELEVATION AT HANDRAIL JOINT (4)

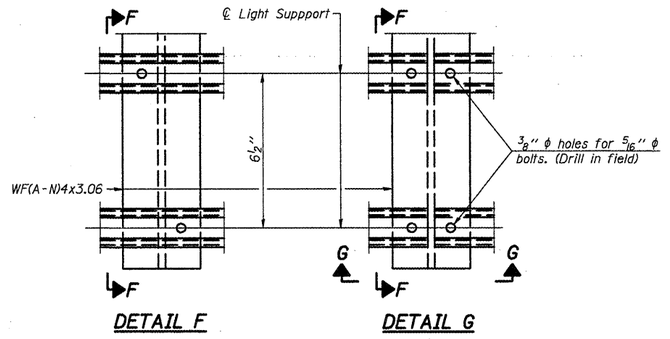


SECTION F-F

SECTION G-G

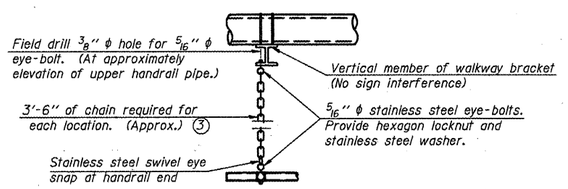
LIGHTING FIXTURE MOUNTS (IF REQUIRED)

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



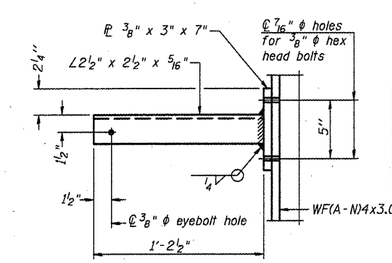
DETAIL F

DETAIL G

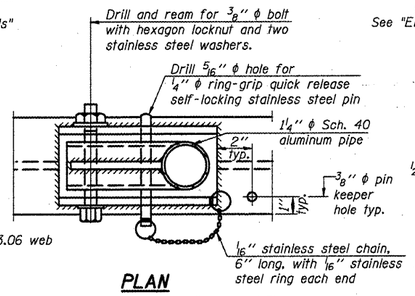


SAFETY CHAIN

One required for each end of each walkway.



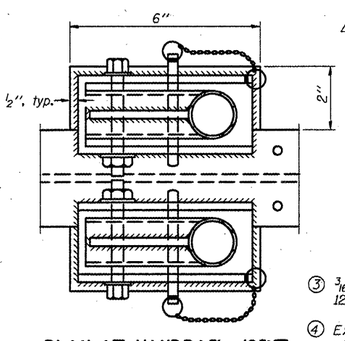
SECTION P-P



PLAN

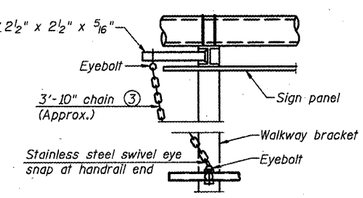
DETAIL E HANDRAIL HINGE

NUMBER	REVISION	DATE



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.

OS-A-11

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		DRAWN -	REVISED -
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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM HANDRAIL DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	39
* Various		CONTRACT NO. 46110		
		ILLINOIS FED. AID PROJECT		

VERMILION COUNTY SIGN STRUCTURES
ILLINOIS 1 – TILTON

Location No.	GM-1		
Structure No.	5 C 092 S001 L027.48		
County / Route	VERMILION CO. - ILLINOIS 1 NB - Tilton - just south of 14th St.		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
72000300	SIGN PANEL - TYPE 3	SQFT	27.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	27.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	375.00
73400100	CONCRETE FOUNDATIONS	CUYD	1.40
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	4.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1.00

Location No.	OSSR-D		
Structure No.	5 C 092 S001 L027.29		
County / Route	VERMILION CO. - ILLINOIS 1 NB - Tilton - between 14th St. & I-74		
Scope of Work	This overhead cantilever is being replaced on a new foundation.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SQFT	84.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	91.00
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	24.00
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	9.00
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	7.00
X7330110	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	20.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00
Z0002005	ATTENUATOR BASE	SQYD	35.00
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1.00
Z0030150	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1.00

Location No.	GM-2		
Structure No.	5 C 092 S001 L027.44		
County / Route	VERMILION CO. - ILLINOIS 1 NB - Tilton - just south of 14th St.		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
72000300	SIGN PANEL - TYPE 3	SQFT	140.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	84.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1209.00
73400100	CONCRETE FOUNDATIONS	CUYD	2.54
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	4.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1.00

Location No.	GM-3		
Structure No.	5 C 092 S001 L027.25		
County / Route	VERMILION CO. - ILLINOIS 1 NB - Tilton - between 14th St. & I-74		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SQFT	93.75
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	61.75
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	913.00
73400100	CONCRETE FOUNDATIONS	CUYD	2.36
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	4.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1.00

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	PLOT DATE = 2/4/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VERMILION COUNTY SIGN STRUCTURES
ILLINOIS 1 – TILTON

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	40
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

VERMILION COUNTY SIGN STRUCTURES
ILLINOIS 1 – TILTON

Location No.	GM-4		
Structure No.	5 C 092 S001 R027.23		
County / Route	VERMILION CO. - ILLINOIS 1 SB - Tilton - between 14th St. & I-74		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SQFT	50.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	32.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	525.00
73400100	CONCRETE FOUNDATIONS	CUYD	1.40
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	4.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1.00

Location No.	OSSR-E		
Structure No.	5 C 092 S001 R027.13		
County / Route	VERMILION CO. - ILLINOIS 1 SB - Tilton - just south of I-74		
Scope of Work	This overhead cantilever is being replaced on a new foundation.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SQFT	84.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	87.50
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	25.00
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	9.00
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	4.00
X7330110	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	20.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	OSSR-F		
Structure No.	5 C 092 S001 L027.09		
County / Route	VERMILION CO. - ILLINOIS 1 NB - Tilton - just north of I-74		
Scope of Work	This overhead cantilever is being replaced on a new foundation.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SQFT	75.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	80.50
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	26.00
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CUYD	9.00
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	4.00
X7330110	OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	FOOT	20.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	GM-5		
Structure No.	5 C 092 S001 R027.03		
County / Route	VERMILION CO. - ILLINOIS 1 SB - Tilton - just north of & I-74		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
72000300	SIGN PANEL - TYPE 3	SQFT	105.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	68.25
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	913.00
73400100	CONCRETE FOUNDATIONS	CUYD	2.36
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
81603035	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GRND, (XLP-TYPE USE), 1" DIA. POLY	FOOT	135.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	4.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	1.00

Location No.	SR-1		
Structure No.	5 C 092 S001 R026.99		
County / Route	VERMILION CO. - ILLINOIS 1 SB - Tilton - north of I-74		
Scope of Work	Replace green sign & remove electrical. Cantilever structure to remain in place.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	1.00
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
72000300	SIGN PANEL - TYPE 3	SQFT	75.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	80.50
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VERMILION COUNTY SIGN STRUCTURES
ILLINOIS 1 – TILTON

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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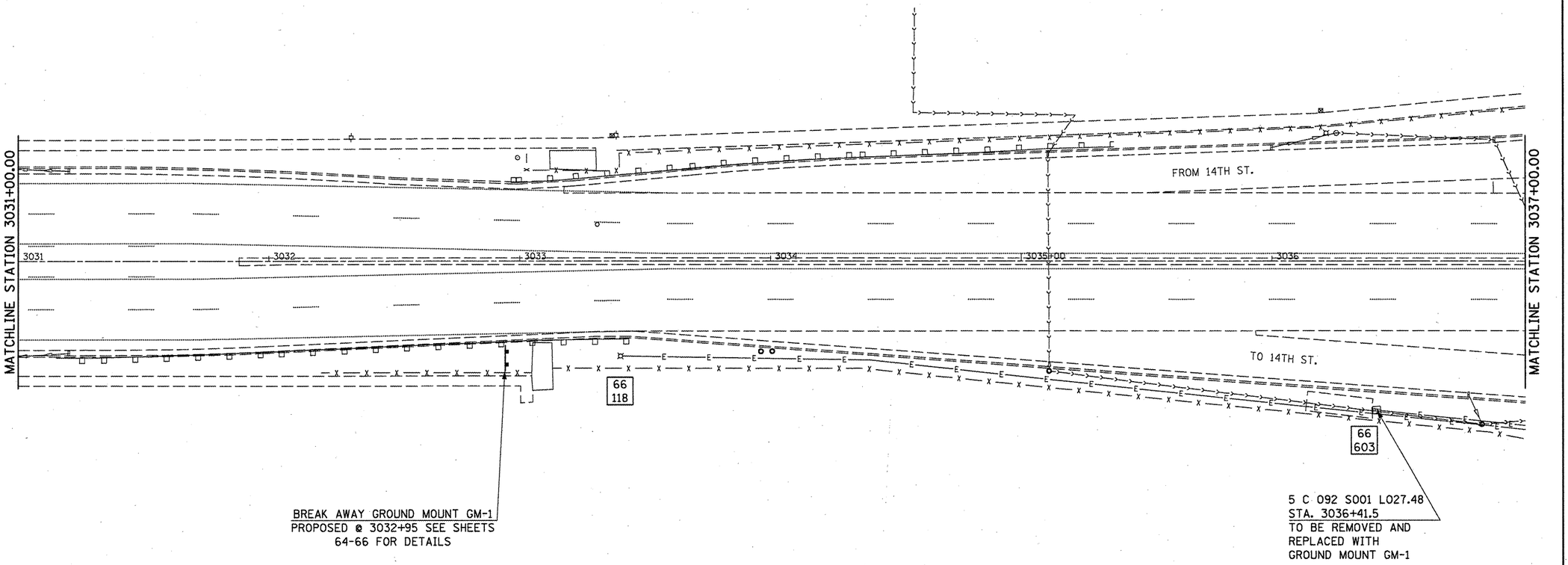
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TILTON /DANVILLE PLAN VIEW

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	42
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

N

MATCHLINE STATION 3037+00.00

MATCHLINE STATION 3043+00.00

3037 | 3038 | 3039 | 3040+00 | 3041 | 3042

FROM 14TH ST.

TO 14TH ST.

66
604

18" S.S.

18" S.S.

BREAK AWAY GROUND MOUNT GM-2
PROPOSED ℄ 3038+72 SEE SHEETS
64-66 FOR DETAILS

66
126

TO 14TH ST.

66
119

5 C 092 S001 L027.44
STA. 3038+60
TO BE REMOVED AND
REPLACED WITH
GROUND MOUNT GM-2

FROM 14TH ST.

66
125

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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TILTON /DANVILLE PLAN VIEW

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	43
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

MATCHLINE STATION 3043+00.00

MATCHLINE STATION 3049+00.00

FROM E.B. I-74

TO E.B. I-74

POT Sta 3044+18.95

3043 3044 3045+00 3046 3047 3048

66 107

65 125

65 607

66 127

66 605

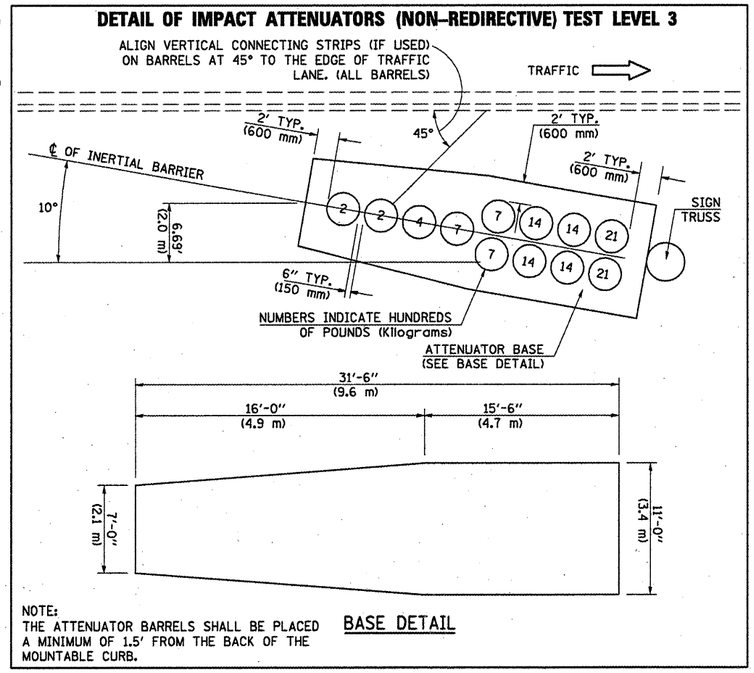
66 128

BREAK AWAY GROUND MOUNT GM-3
PROPOSED ℄ 3048+30 SEE SHEETS 64-66 FOR DETAILS

5 C 092 S001 L027.29
STA. 3046+12
REMOVE AND REPLACE STR.
PROPOSED ℄ 3046+27
OSSR-D SEE SHEETS 54-63
FOR DETAILS

5 C 092 S001 L027.25
STA. 3048+14
TO BE REMOVED AND
REPLACED WITH
GROUND MOUNT GM-3

DETAIL OF IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 3



BASE DETAIL

NOTE:
THE ATTENUATOR BARRELS SHALL BE PLACED A MINIMUM OF 1.5' FROM THE BACK OF THE MOUNTABLE CURB.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TILTON /DANVILLE PLAN VIEW

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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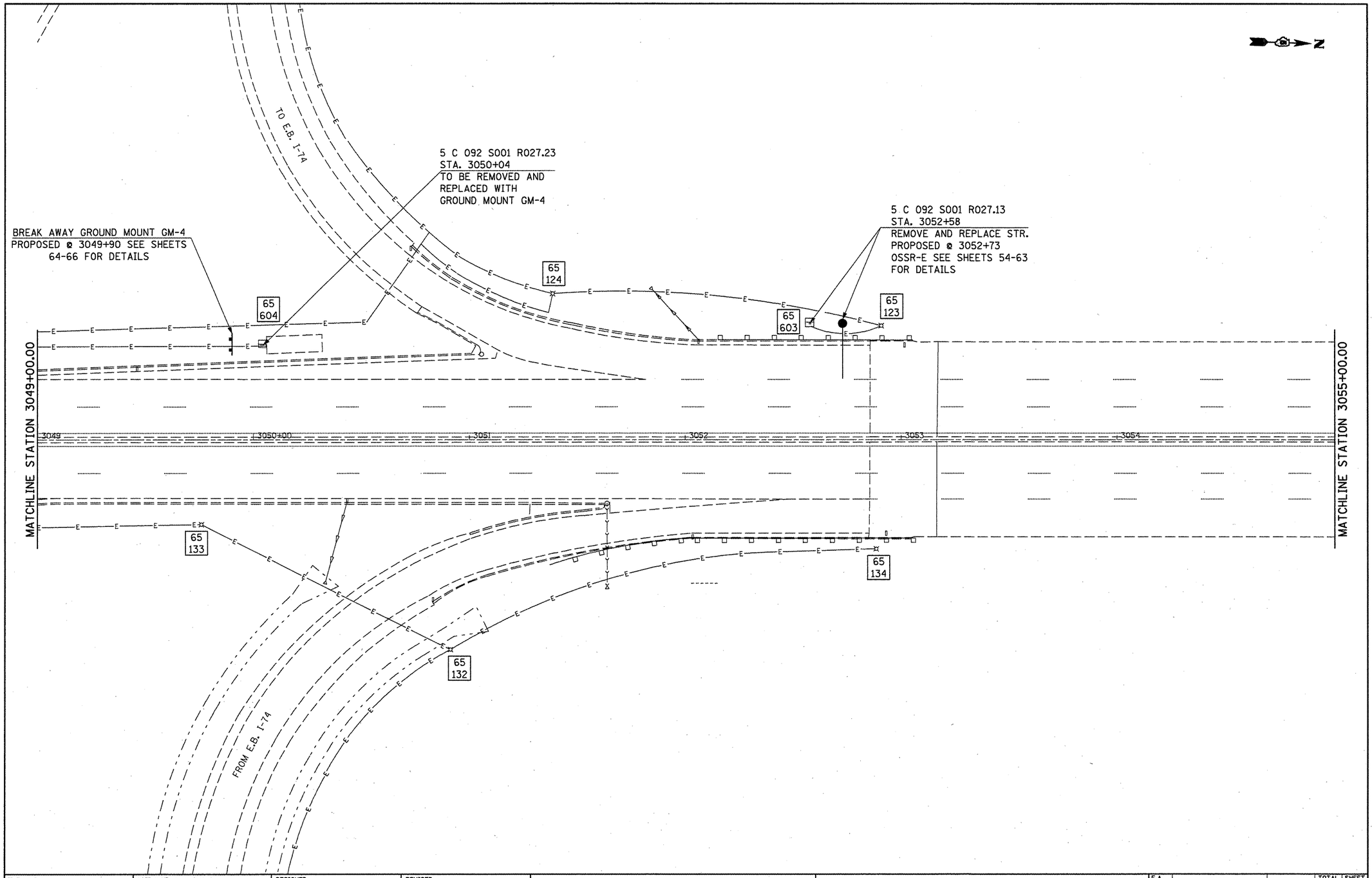
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TILTON /DANVILLE PLAN VIEW

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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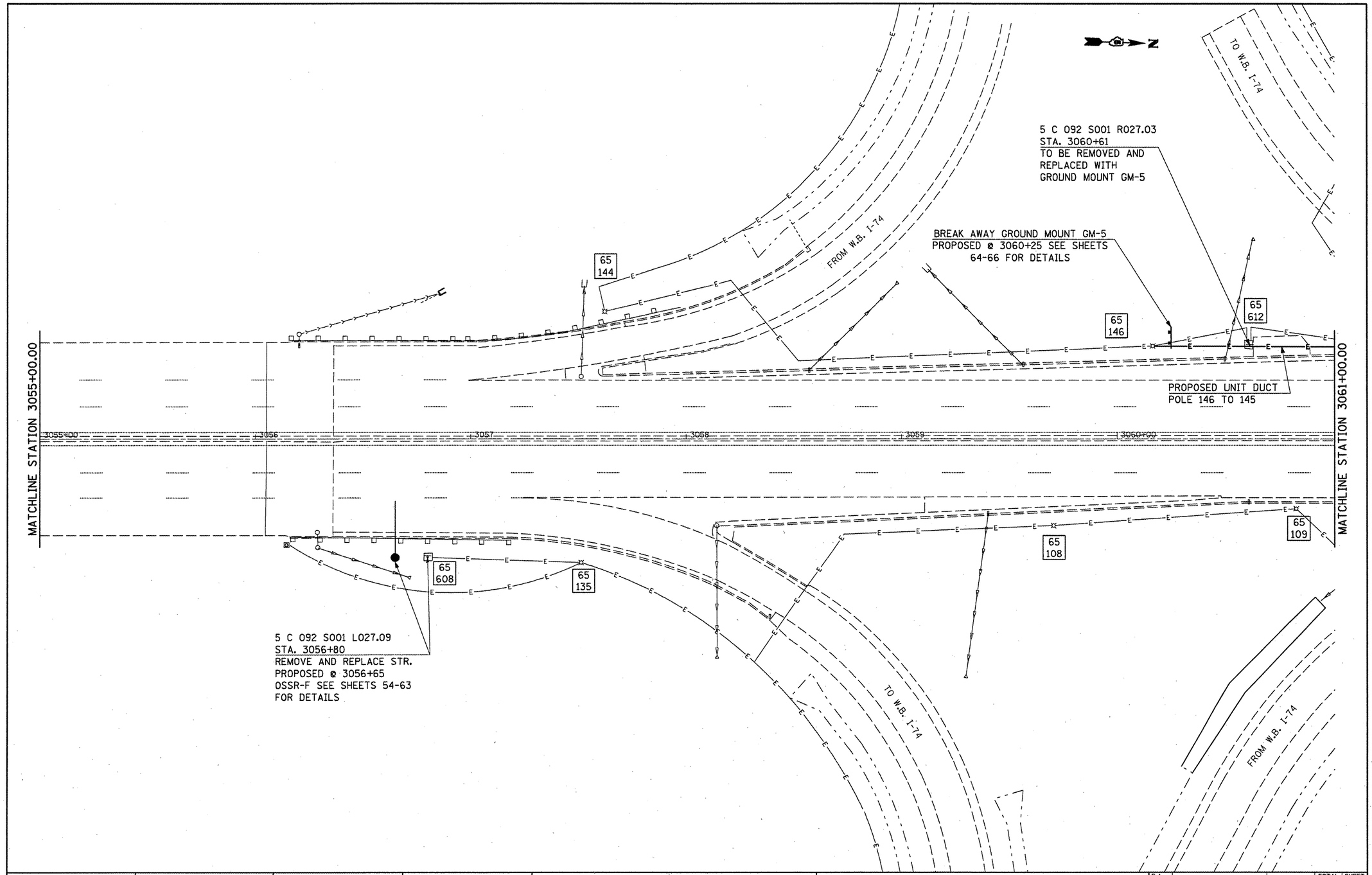
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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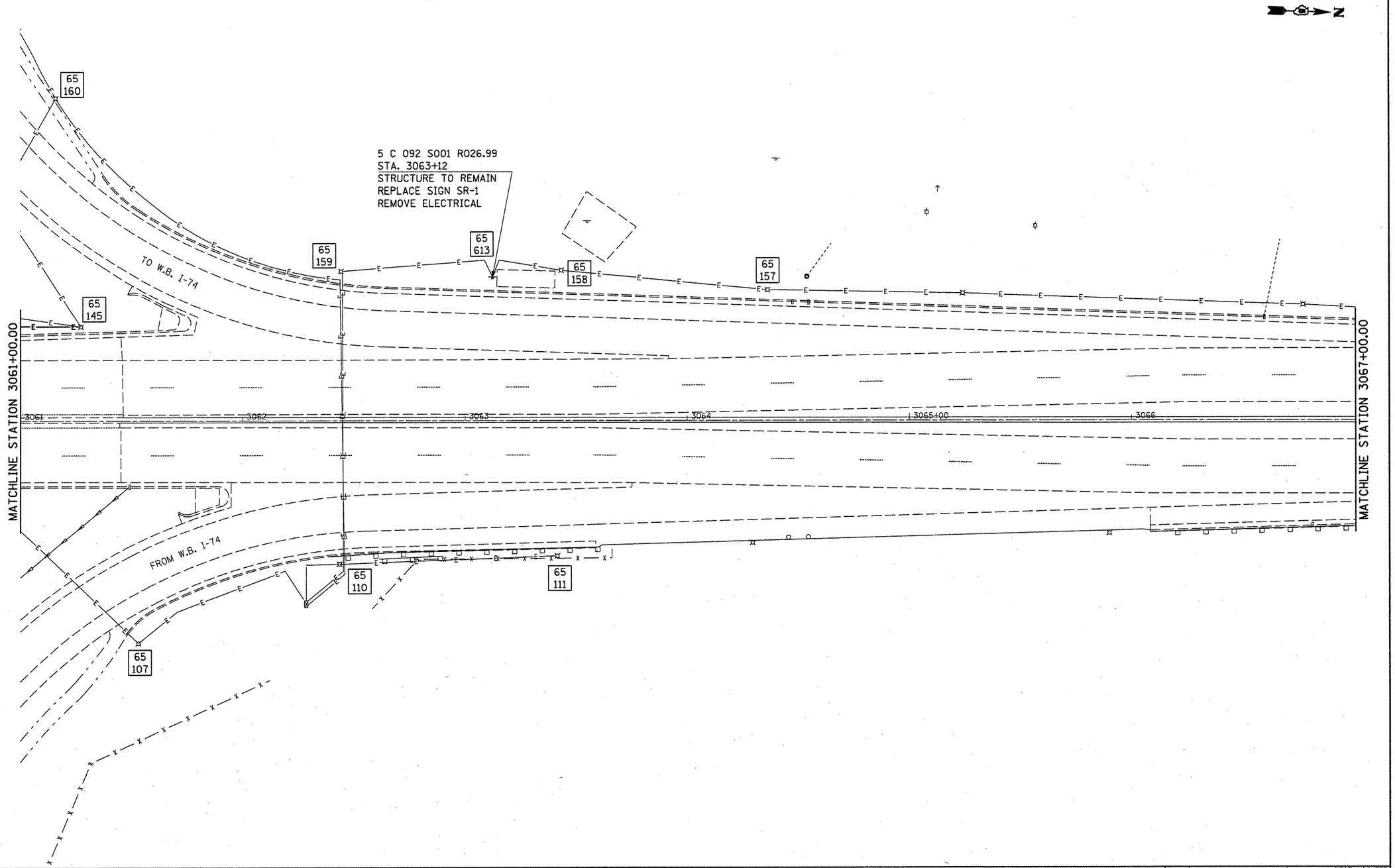
	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TILTON /DANVILLE PLAN VIEW

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	46
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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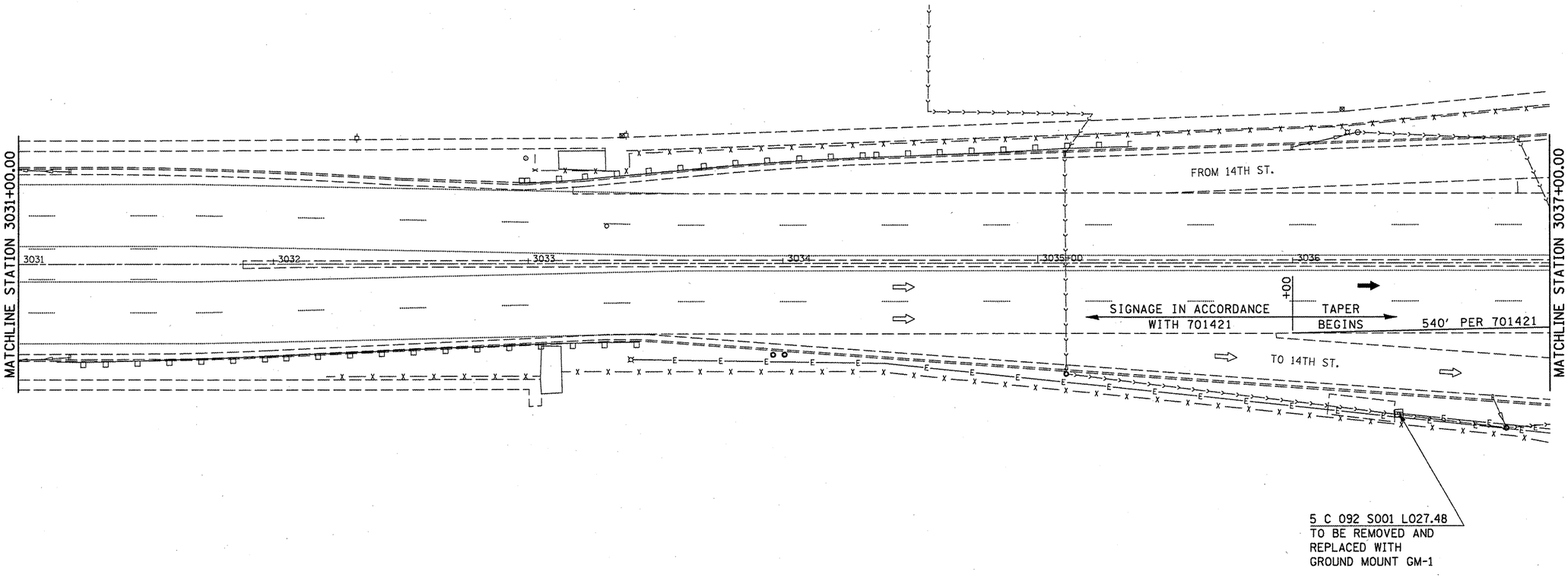
	PLOT SCALE = 40.0000 ' / IN.	DRAWN -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 1/21/2018	CHECKED -	REVISED -		
		DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	47
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

IL 1 TRAFFIC CONTROL EXAMPLES

5 C 092 S001 L027.29
5 C 092 S001 L027.25
5 C 092 S001 R027.13
5 C 092 S001 R027.23



THIS SHEET SHOWS GENERAL TRAFFIC CONTROL LAYOUT ONLY. ALL SIGNS, ARROW BOARDS, BARRICADES, & FLAGGERS SHALL BE PLACED IN ACCORDANCE WITH 701421 & 701411 OR AS DIRECTED BY THE ENGINEER. SIGN SPACINGS IN 701421 & 701411 MAY BE ALTERED TO BEST FIT THE URBAN FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. ALSO REFER TO THE SITE SPECIFIC TRAFFIC CONTROL DESCRIPTIONS IN THE SPECIAL PROVISIONS.

⇦/⇨ TRAFFIC OUTSIDE THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

⬅/➡ TRAFFIC WITHIN THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

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	PLOT DATE = 1/21/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TRAFFIC CONTROL EXAMPLES

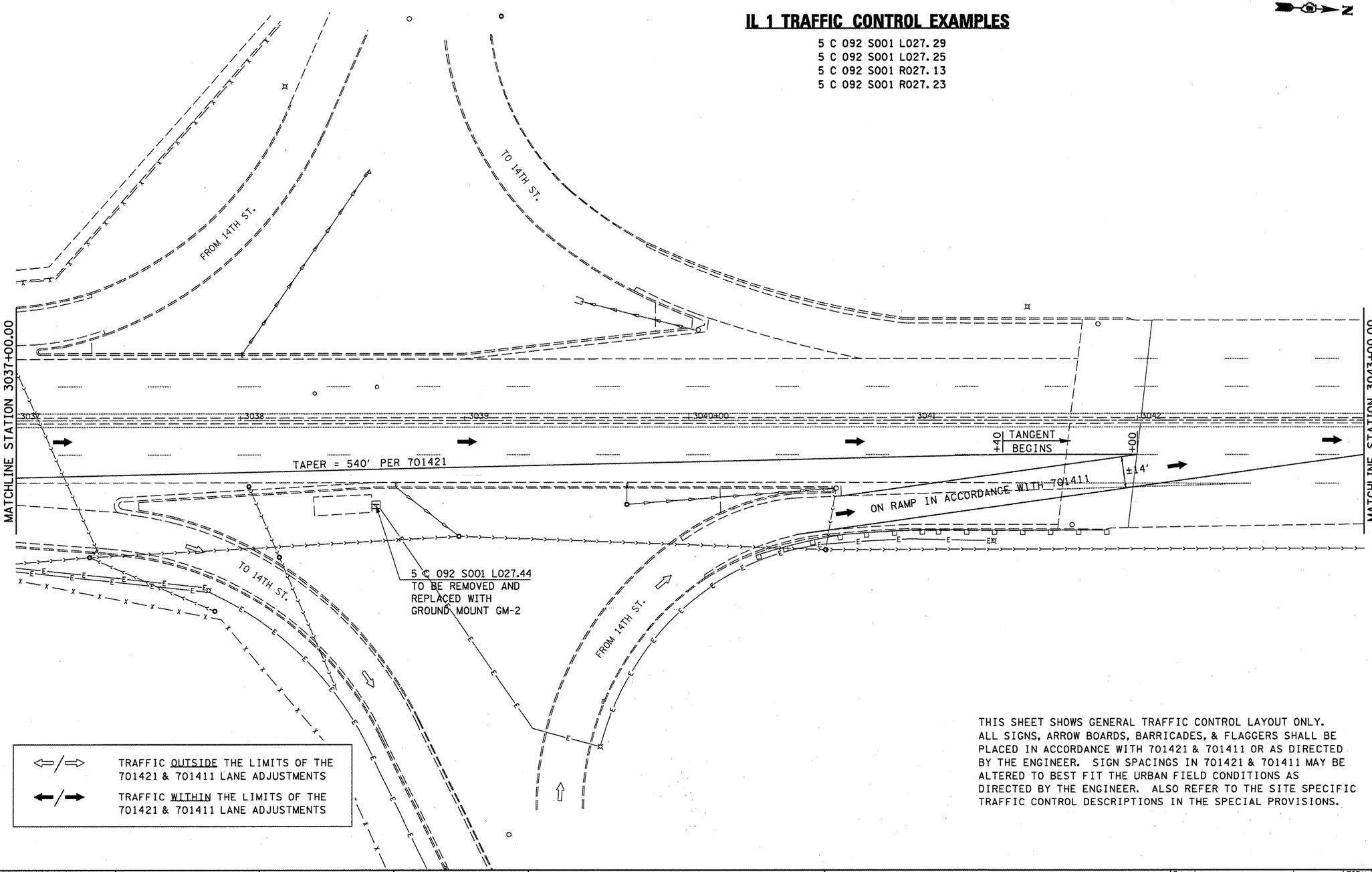
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	48
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

IL 1 TRAFFIC CONTROL EXAMPLES

5 C 092 S001 L027.29
5 C 092 S001 L027.25
5 C 092 S001 R027.13
5 C 092 S001 R027.23

N



⇦/⇨ TRAFFIC OUTSIDE THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

⬅/➡ TRAFFIC WITHIN THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

THIS SHEET SHOWS GENERAL TRAFFIC CONTROL LAYOUT ONLY. ALL SIGNS, ARROW BOARDS, BARRICADES, & FLAGGERS SHALL BE PLACED IN ACCORDANCE WITH 701421 & 701411 OR AS DIRECTED BY THE ENGINEER. SIGN SPACINGS IN 701421 & 701411 MAY BE ALTERED TO BEST FIT THE URBAN FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. ALSO REFER TO THE SITE SPECIFIC TRAFFIC CONTROL DESCRIPTIONS IN THE SPECIAL PROVISIONS.

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	PLOT DATE = 1/21/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TRAFFIC CONTROL EXAMPLES

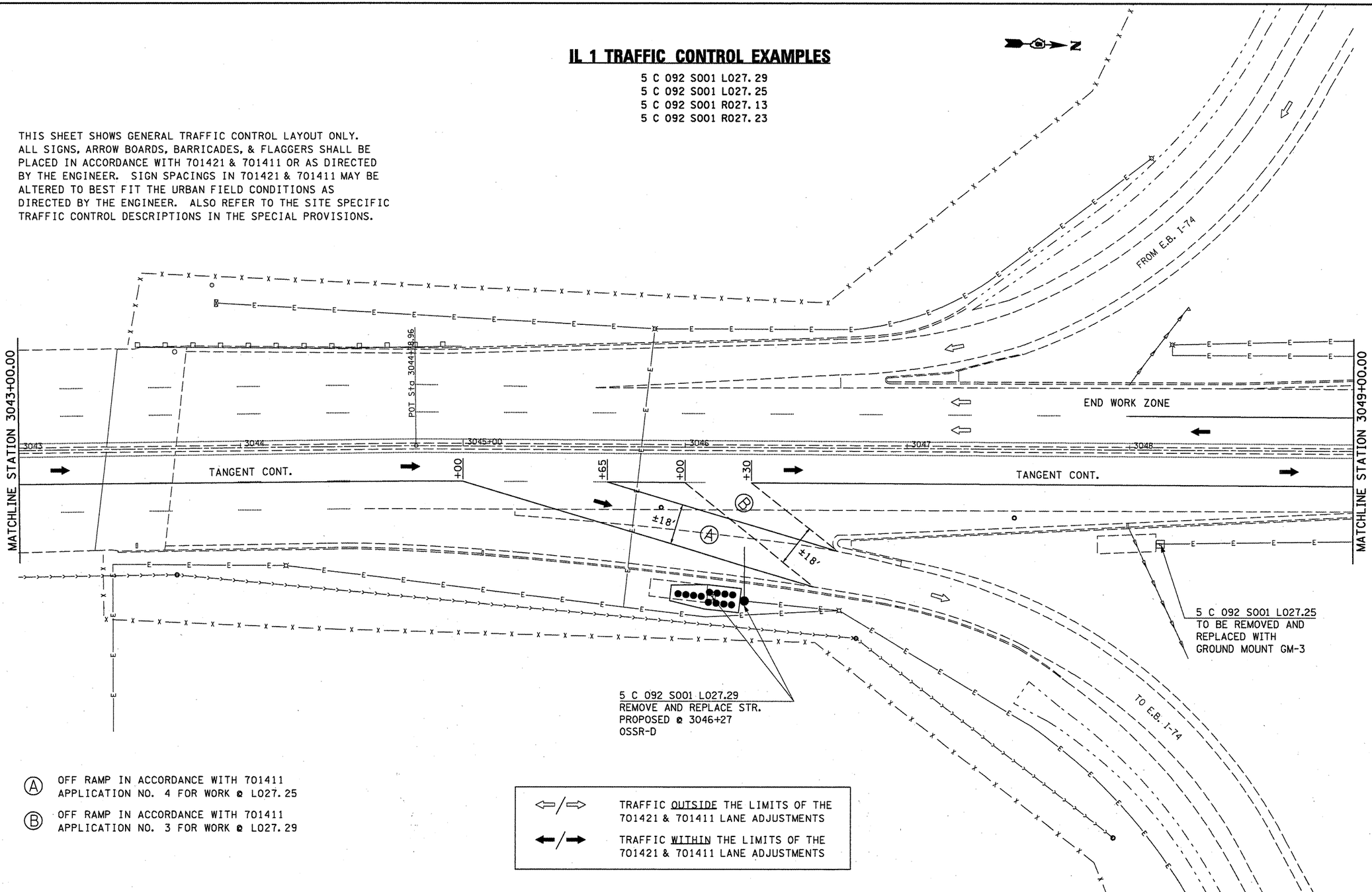
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	49
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

IL 1 TRAFFIC CONTROL EXAMPLES

5 C 092 S001 L027.29
5 C 092 S001 L027.25
5 C 092 S001 R027.13
5 C 092 S001 R027.23

THIS SHEET SHOWS GENERAL TRAFFIC CONTROL LAYOUT ONLY. ALL SIGNS, ARROW BOARDS, BARRICADES, & FLAGGERS SHALL BE PLACED IN ACCORDANCE WITH 701421 & 701411 OR AS DIRECTED BY THE ENGINEER. SIGN SPACINGS IN 701421 & 701411 MAY BE ALTERED TO BEST FIT THE URBAN FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. ALSO REFER TO THE SITE SPECIFIC TRAFFIC CONTROL DESCRIPTIONS IN THE SPECIAL PROVISIONS.



Ⓐ OFF RAMP IN ACCORDANCE WITH 701411 APPLICATION NO. 4 FOR WORK @ L027.25

Ⓑ OFF RAMP IN ACCORDANCE WITH 701411 APPLICATION NO. 3 FOR WORK @ L027.29

⇦/⇨ TRAFFIC OUTSIDE THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

⬅/➡ TRAFFIC WITHIN THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TRAFFIC CONTROL EXAMPLES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

IL 1 TRAFFIC CONTROL EXAMPLES

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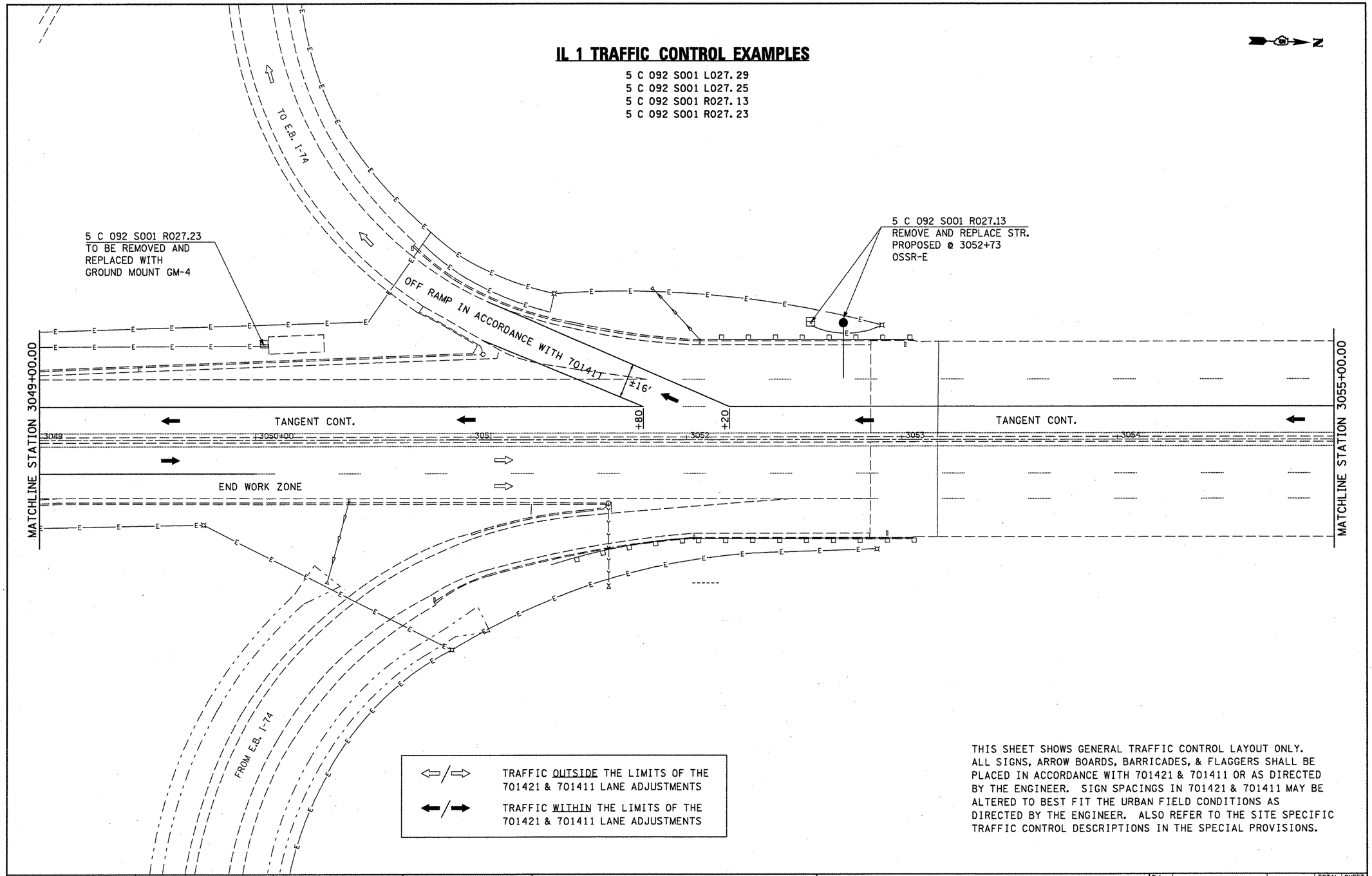
5 C 092 S001 R027.13
5 C 092 S001 R027.23



THIS SHEET SHOWS GENERAL TRAFFIC CONTROL LAYOUT ONLY. ALL SIGNS, ARROW BOARDS, BARRICADES, & FLAGGERS SHALL BE PLACED IN ACCORDANCE WITH 701421 & 701411 OR AS DIRECTED BY THE ENGINEER. SIGN SPACINGS IN 701421 & 701411 MAY BE ALTERED TO BEST FIT THE URBAN FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. ALSO REFER TO THE SITE SPECIFIC TRAFFIC CONTROL DESCRIPTIONS IN THE SPECIAL PROVISIONS.

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TRAFFIC CONTROL EXAMPLES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	51
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

IL 1 TRAFFIC CONTROL EXAMPLES

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5 C 092 S001 R027.13
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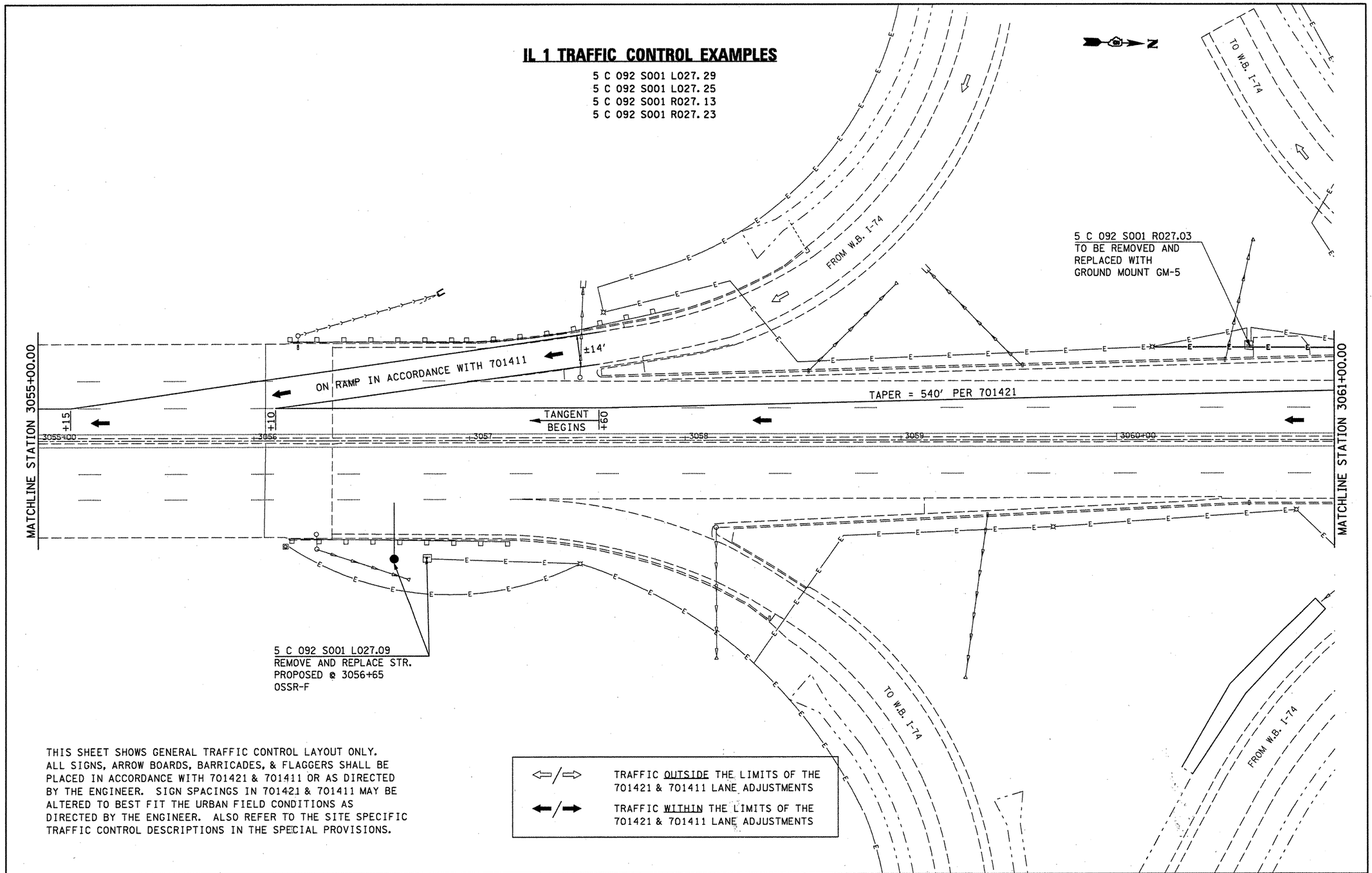

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⇦/⇨ TRAFFIC OUTSIDE THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

⬅/➡ TRAFFIC WITHIN THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

FILE NAME = c:\pw_work\PWIDOT\CEARLOCKJD\d0180151\D546118-sht-IL 1-Traffic Control-plan.dgn	USER NAME = cearlockjd	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TRAFFIC CONTROL EXAMPLES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	52
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

IL 1 TRAFFIC CONTROL EXAMPLES

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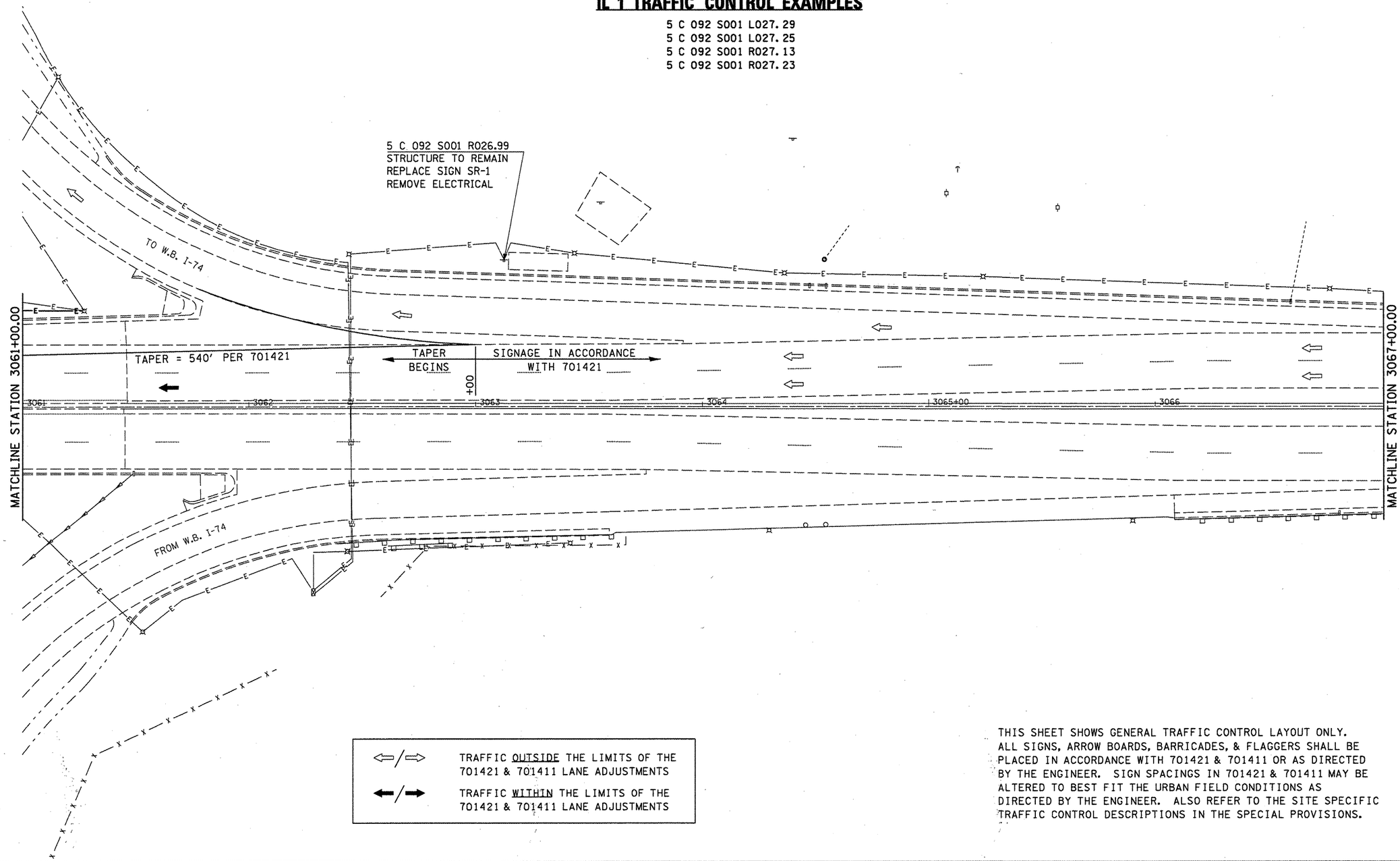
5 C 092 S001 L027.25
5 C 092 S001 R027.13
5 C 092 S001 R027.23



TRAFFIC OUTSIDE THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

TRAFFIC WITHIN THE LIMITS OF THE 701421 & 701411 LANE ADJUSTMENTS

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	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2010	DATE -	REVISED -

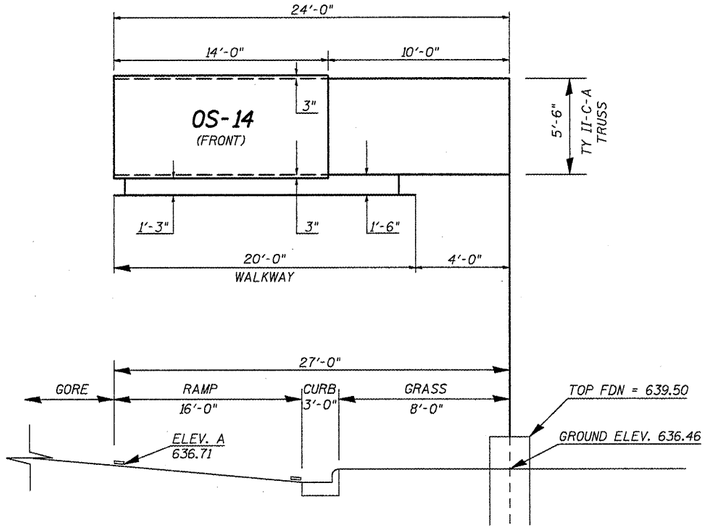
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 1 TRAFFIC CONTROL EXAMPLES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

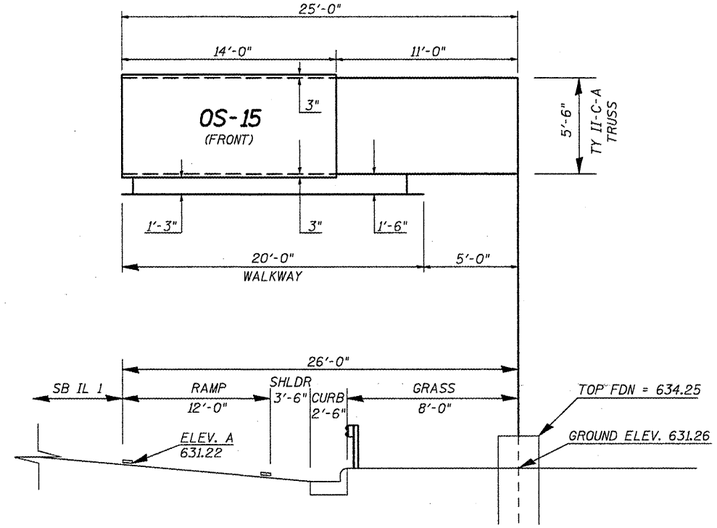
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	53
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

SIGN TRUSS MOUNTING DETAIL
5 C 092 S001 L027.29 RT STA. 3046+27 – OSSR–D



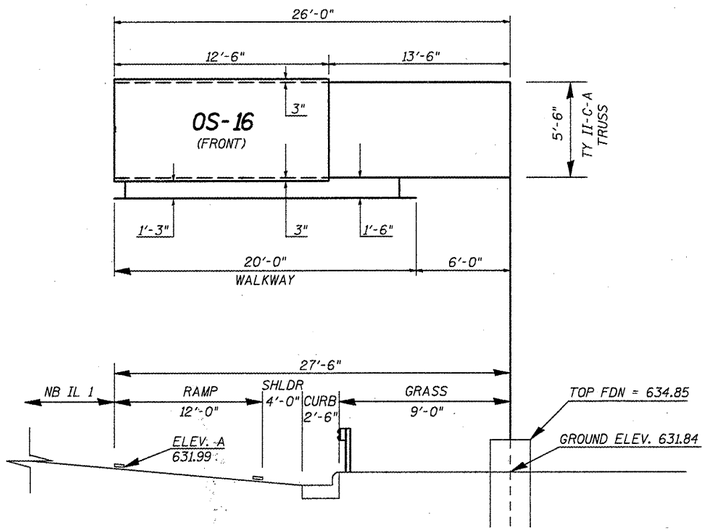
TEMP. BENCHMARK : CHIS. "X" ON NW ANCHOR BOLT = 639.73 (FROM 1964 PLANS)

SIGN TRUSS MOUNTING DETAIL
5 C 092 S001 R027.13 LT. STA. 3052+73 – OSSR–E



TEMP. BENCHMARK : CHIS. "X" ON SE ANCHOR BOLT = 633.37 (FROM 1971 PLANS)

SIGN TRUSS MOUNTING DETAIL
5 C 092 S001 L027.09 RT. STA. 3056+65 – OSSR–F



TEMP. BENCHMARK : CHIS. "X" ON NW ANCHOR BOLT = 633.63 (FROM 1971 PLANS)

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		DRAWN -	REVISED -
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	PLOT DATE = 2/4/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN TRUSS MOUNTING DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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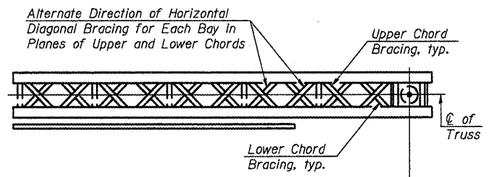
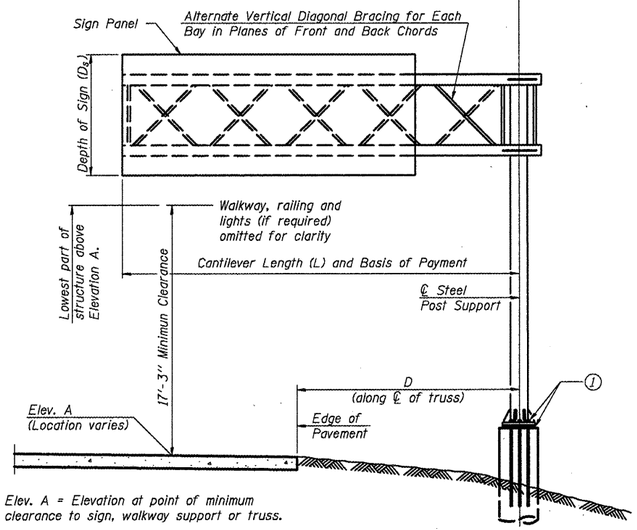
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



TYPICAL PLAN
(Walkway not shown)



Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

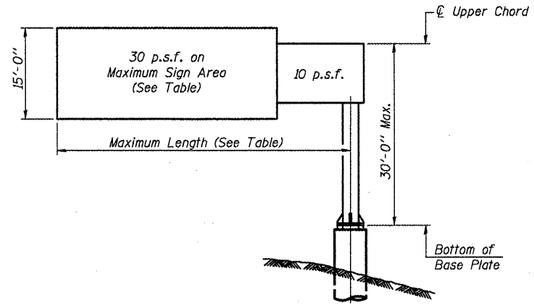
TYPICAL ELEVATION
Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D_s ***	Total Sign Area
5 C 092 S001 L027.29	3046+27	II-C-A	24'-0"	636.71	**	6'-0"	84.0
5 C 092 S001 R027.13	3052+73	II-C-A	25'-0"	631.22	**	6'-0"	84.0
5 C 092 S001 L027.09	3056+65	II-C-A	26'-0"	631.99	**	6'-0"	75.0

** SEE SIGN TRUSS MOUNTING DETAILS.
*** END SUPPORT HEIGHTS BASED ON 15'-0" SIGN HEIGHT PER OSC-A-5

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



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

1 After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

Note:
Trusses 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 trusses.

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.
fy = 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 Specificiations.

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 at 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 AASHTO M314 Gr. 105 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F.

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 Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

* 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.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	75.0
OVERHEAD SIGN STRUCTURE WALKWAY, CANTILEVER, TYPE A	Foot	60.0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	27.0

NUMBER	REVISION	DATE

OSC-A-1 12-1-08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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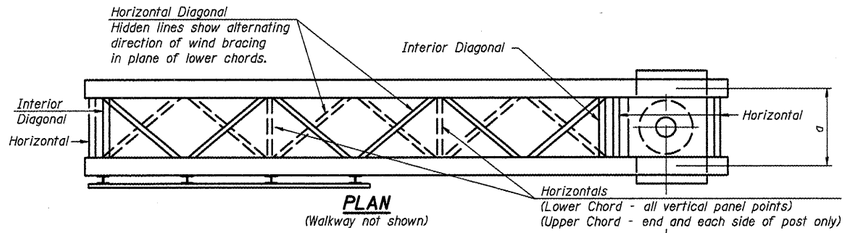
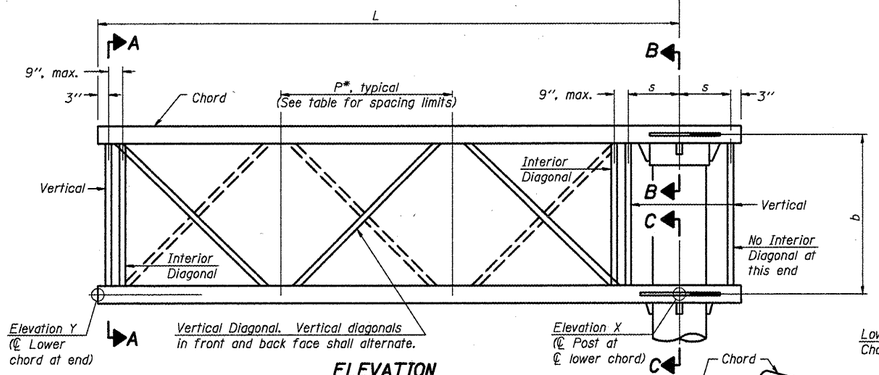
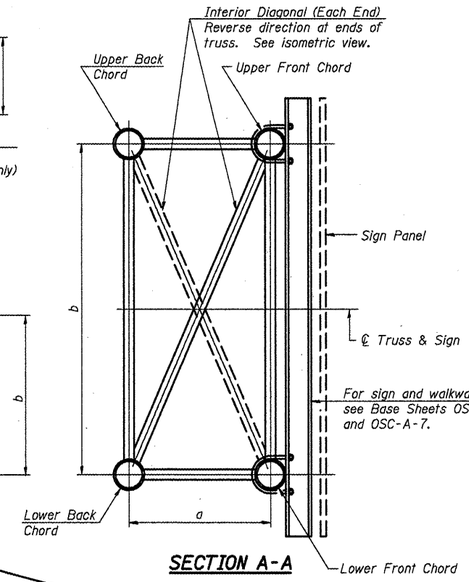
•	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



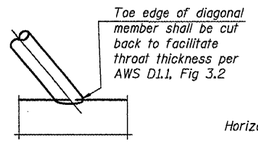
PLAN
(Walkway not shown)



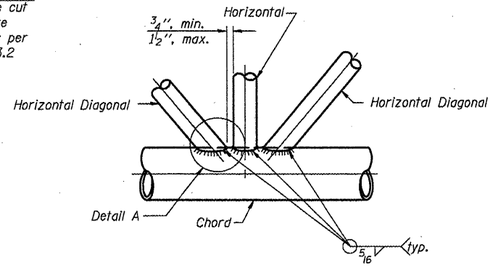
ELEVATION
(Sign and walkway omitted for clarity)



SECTION A-A



DETAIL A

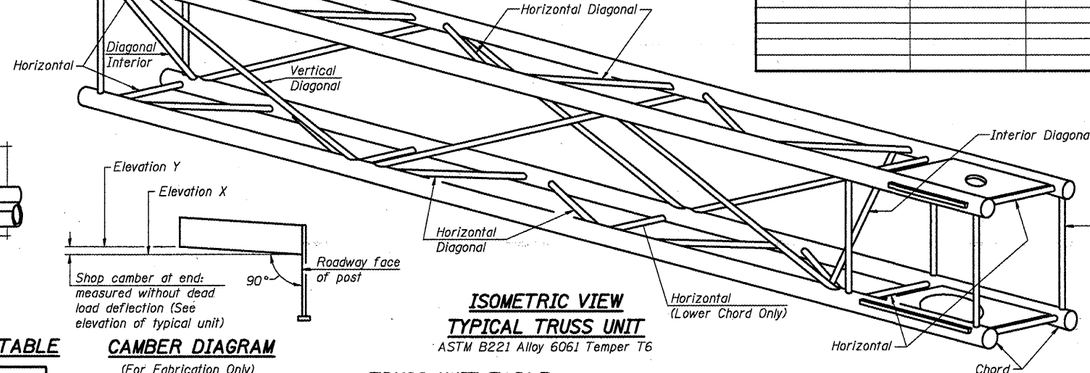


TRUSS INTERIOR JOIT DETAIL

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
5 C 092 S001 L027.29	3046+27	II-C-A	24'-0"	6	3'-8"
5 C 092 S001 R027.13	3052+73	II-C-A	25'-0"	6	3'-10"
5 C 092 S001 L027.09	3056+65	II-C-A	26'-0"	6	4'-0"

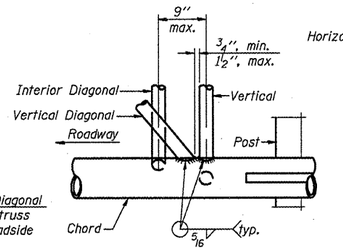
TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSC-A-3.

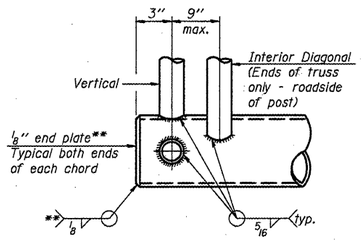


ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Note:
There are twice as many horizontal diagonals as there are vertical diagonals.



POST END JOINT DETAIL



CANTILEVER END JOINT DETAIL
** Contractor may alternatively use standard aluminum drive-fit cap to close ends.

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"

CAMBER DIAGRAM
(For Fabrication Only)

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord O.D.	Up. & Low. Chord Wall	Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals O.D.	Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$*P = \frac{L - s - 3''}{\#\ Panels}$

NUMBER	REVISION	DATE

OSC-A-2 12-1-08

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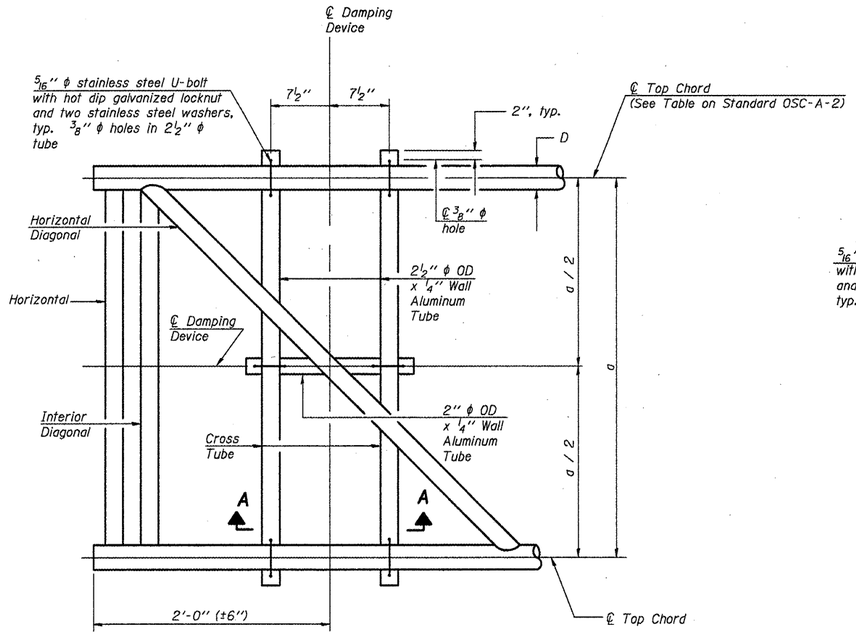
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

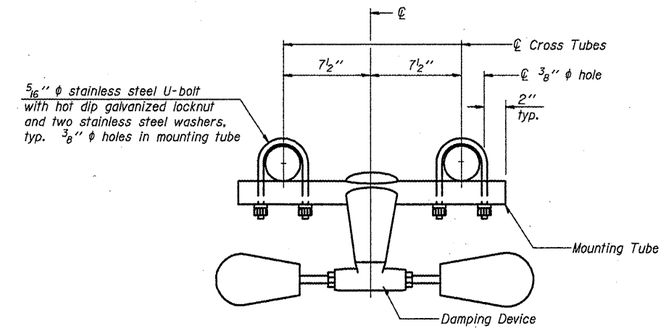
CANTILEVER SIGN STRUCTURES TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

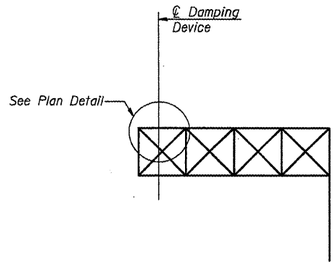
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	56
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



PLAN DETAIL



TRUSS DAMPING DEVICE CONNECTION DETAIL



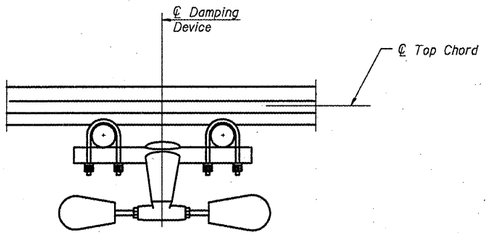
ELEVATION

Aluminum Cantilever - Sign Structure

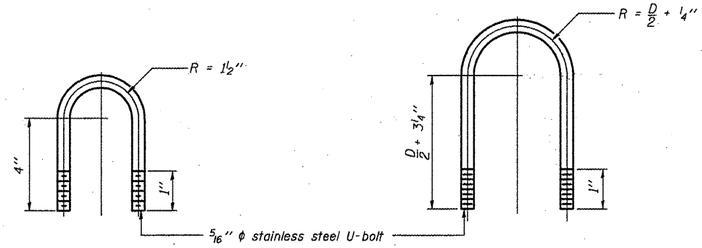
GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)

Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL

(Typical)

TOP CHORD TO CROSS TUBE U-BOLT DETAIL

(Typical)

OSC-A-D 12-1-08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
DAMPING DEVICE

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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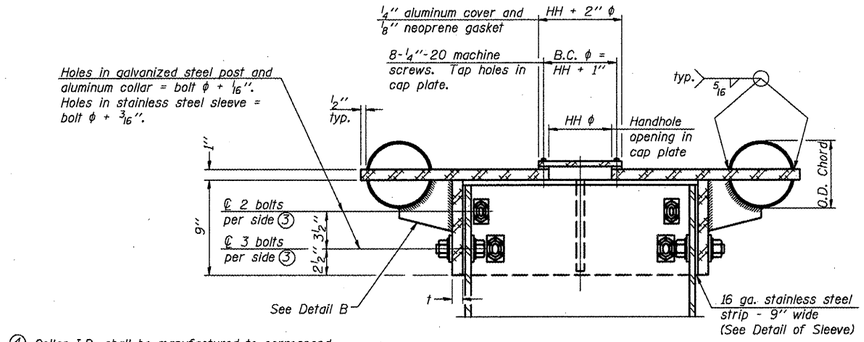
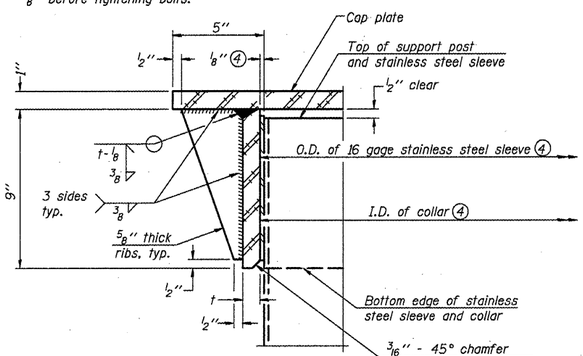
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



SECTION B-B

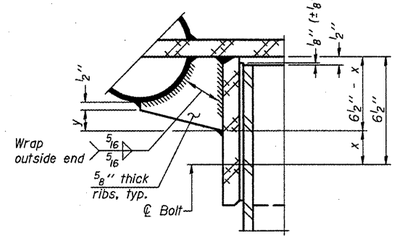
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.



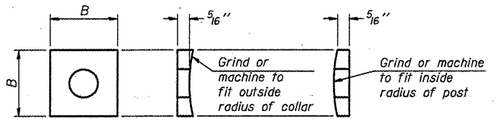
DETAIL A

(Two locations)



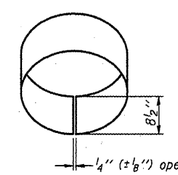
DETAIL B

Two locations
(For details not shown, see Detail C)



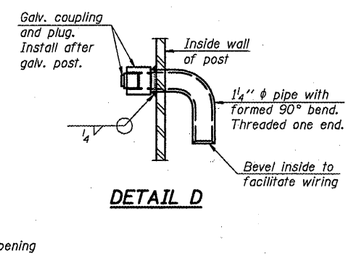
CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"



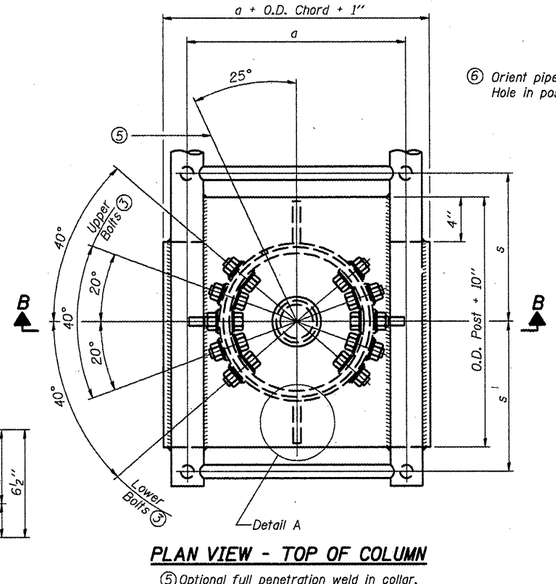
DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.



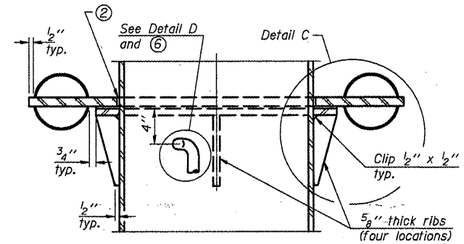
DETAIL D

NUMBER	REVISION	DATE

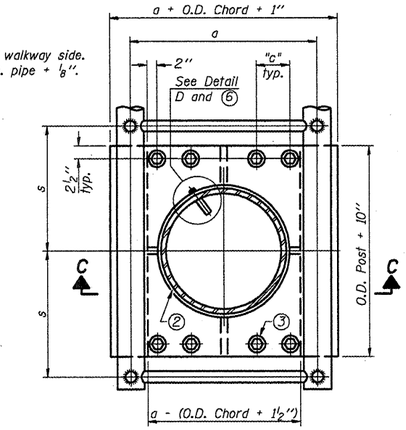


PLAN VIEW - TOP OF COLUMN

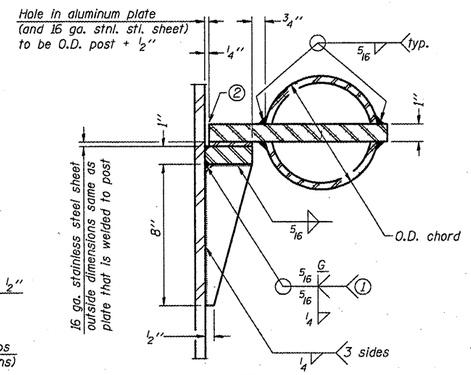
⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)



SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS



DETAIL C

① Grind top if required to fully seat aluminum plate and stainless steel sheet.

② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" ϕ (83#/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" ϕ (125#/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" ϕ (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" ϕ (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3

12-1-08

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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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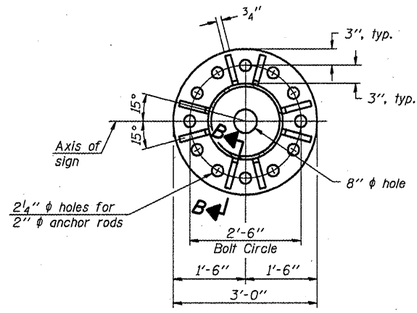
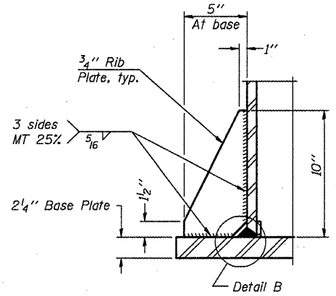
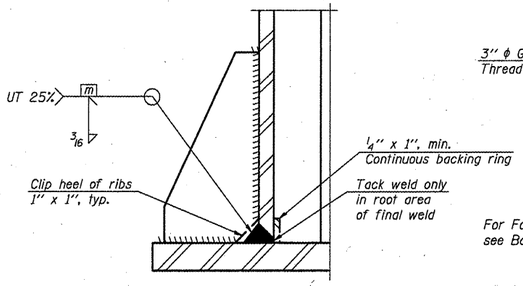
• Various		CONTRACT NO. 46110		
		ILLINOIS FED. AID PROJECT		



SECTION A-A

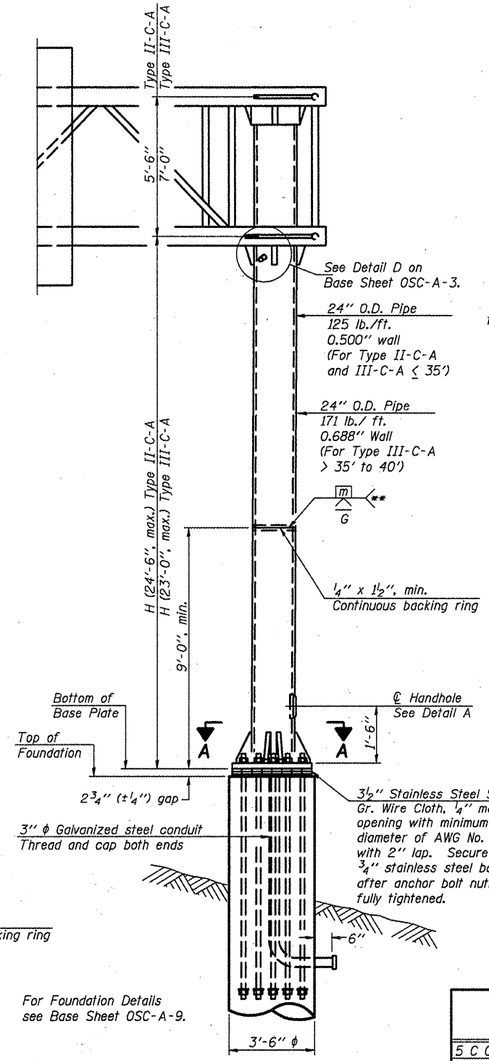


SECTION B-B



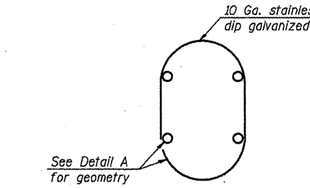
DETAIL B

(Typical rib)

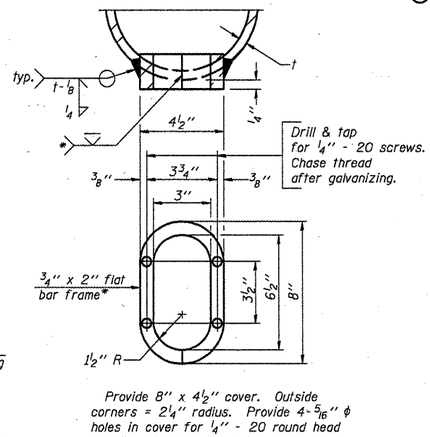


For Foundation Details see Base Sheet OSC-A-9.

FRONT ELEVATION



HANDHOLE COVER

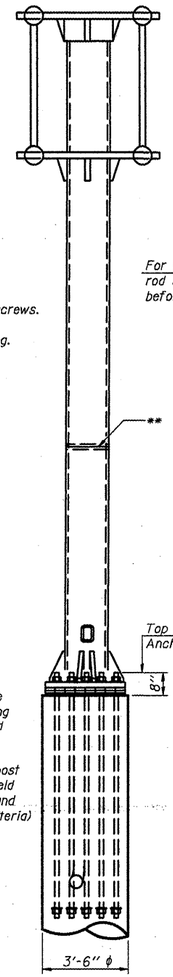


Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" ϕ holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

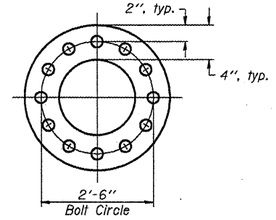
DETAIL A

* Bent bars may be butt welded top and bottom or bottom only. 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 min or less.

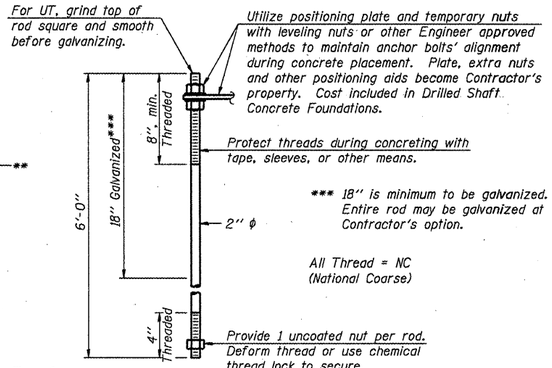
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 105 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum***) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

Structure Number	Station	H
5 C 092 S001 L027.29	3046+27	21'-0"
5 C 092 S001 R027.13	3052+73	21'-0"
5 C 092 S001 L027.09	3056+65	21'-0"

Note: "H" based on 15'-0" or actual sign height, whichever is greater.

NUMBER	REVISION	DATE

OSC-A-5 12-1-08

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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES TYPE II-C-A & III-C-A TRUSS SUPPORT POST ALUMINUM TRUSS & STEEL POST

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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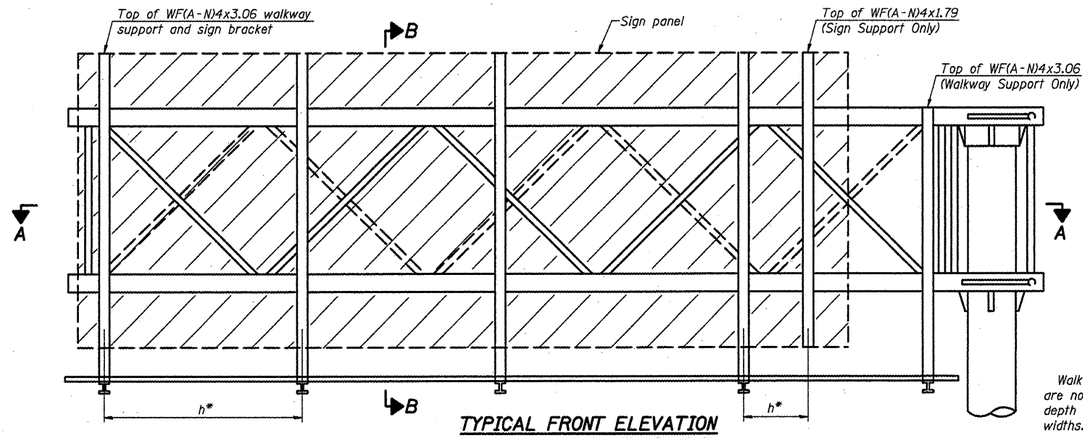
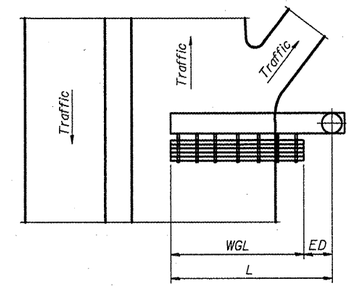
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



TYPICAL FRONT ELEVATION

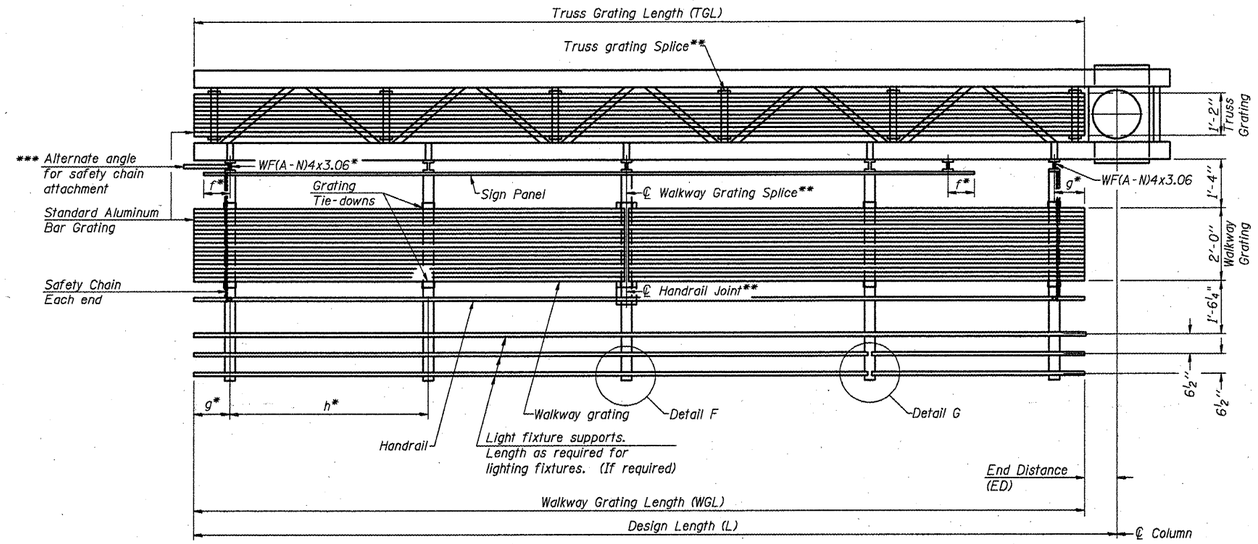
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ±½", depth ±½") based on available standard widths.



PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)



Structure Number	Station	WGL	ED	TGL
5 C 092 S001 L027.29	3046+27	20'-0"	4'-0"	22'-6"
5 C 092 S001 R027.13	3052+73	20'-0"	5'-0"	23'-6"
5 C 092 S001 L027.09	3056+65	20'-0"	6'-0"	24'-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 ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to ℄ of nearest bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

SECTION A-A

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6''\right)$$

NUMBER	REVISION	DATE

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"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6 12-1-08

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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES ALUMINUM WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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*	Various	CONTRACT NO. 46110		
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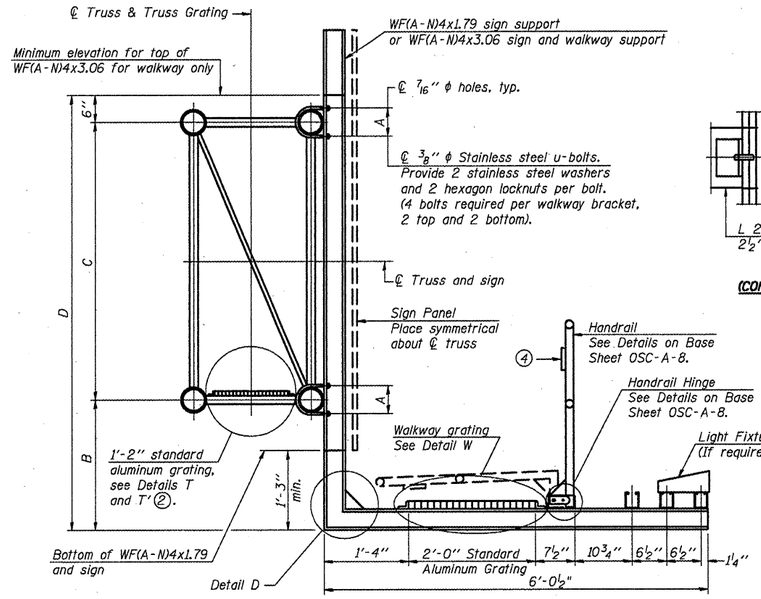
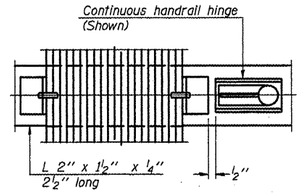
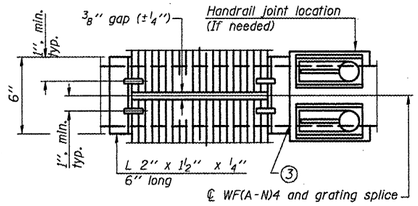


SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

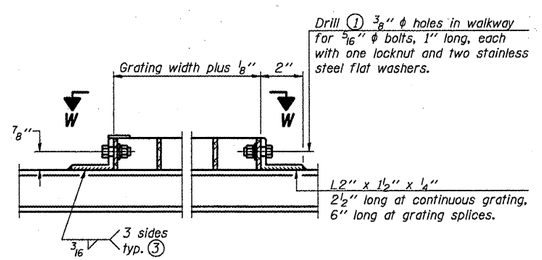


(CONTINUOUS WALKWAY GRATING)



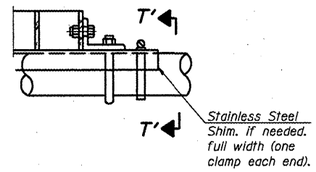
(AT WALKWAY GRATING SPLICE)

SECTION W-W



DETAIL W

(Walkway grating)



DETAIL T'

(Truss grating splice)

Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

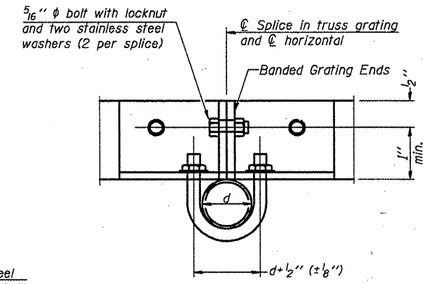
Cross bars (CB) shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

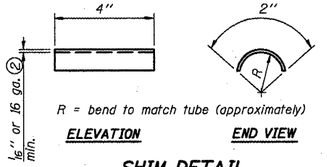
Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 $in.^3$ per bar, a depth of 1½", spaced on 1 3/16" centers.

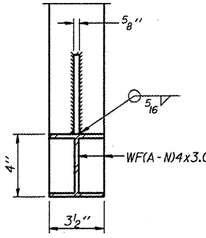
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



SECTION T'-T'

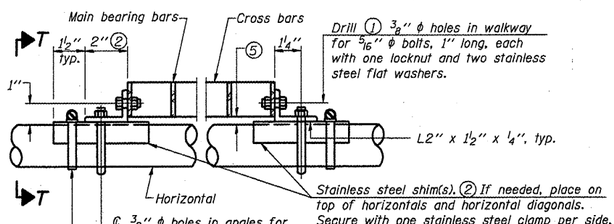


SHIM DETAIL



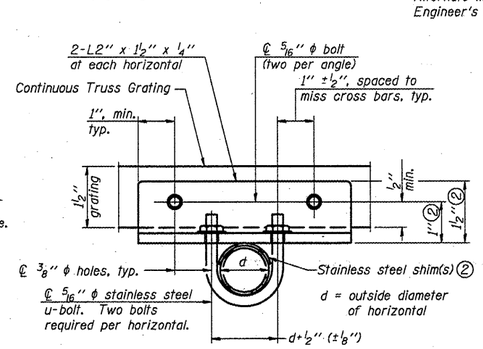
SECTION D-D

Screw type stainless steel tube clamp at shim location

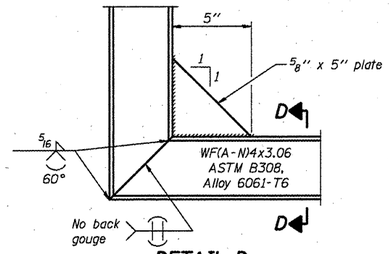


DETAIL T

(Continuous Truss grating)



SECTION T-T



DETAIL D

Structure Number	Station	A	(6) B	C	(6) D
5 C 092 S001 L027.29	3046+27	6 15/16"	1'-6"	5'-6"	7'-6"
5 C 092 S001 R027.13	3052+73	6 15/16"	1'-6"	5'-6"	7'-6"
5 C 092 S001 L027.09	3056+65	6 15/16"	1'-6"	5'-6"	7'-6"

(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 ¼" extension bars. (See Base Sheet OSC-A-8.)

(4) ℄ ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.

(5) Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.

(6) Based on actual sign height, D_S, given on OSC-A-1.

NUMBER	REVISION	DATE

OSC-A-7 6-1-09

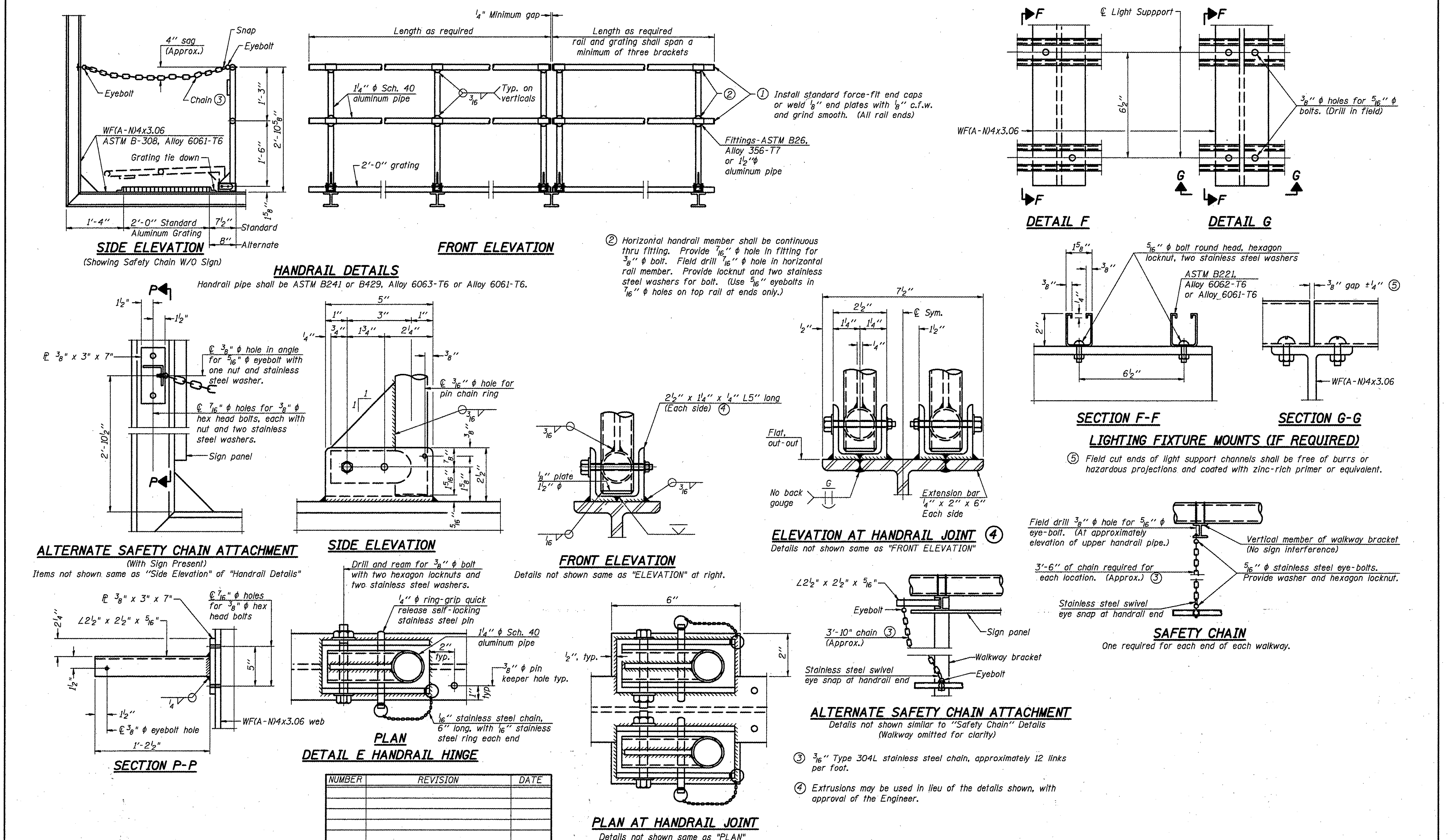
FILE NAME = c:\pw_work\pwidot\craigre\d0180151\D546130-sht-details.dgn	USER NAME = craigre	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/4/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	61
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



1/4" Minimum gap
Length as required
Length as required
rail and grating shall span a minimum of three brackets
Snap
4" sag (Approx.)
Eyebolt
Eyebolt
Chain ③
1'-3"
2'-10 5/8"
1'-6"
WF(A-N)4x3.06
ASTM B-308, Alloy 6061-T6
Grating tie down
1'-4"
2'-0" Standard Aluminum Grating
7 1/2" Standard
8" Alternate
1 5/8"
SIDE ELEVATION
(Showing Safety Chain W/O Sign)
1 1/4" φ Sch. 40 aluminum pipe
Typ. on verticals
3/16
2'-0" grating
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)
Fittings-ASTM B26, Alloy 356-T7 or 1 1/2"φ aluminum pipe
FRONT ELEVATION
HANDRAIL DETAILS
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.
② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" φ hole in fitting for 3/8" φ bolt. Field drill 7/16" φ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" φ holes on top rail at ends only.)
℄ Light Suppport
WF(A-N)4x3.06
6 1/2"
3/8" φ holes for 5/16" φ bolts. (Drill in field)
DETAIL F
DETAIL G
1 5/8"
3/8"
3/8"
1/4"
2"
5/16" φ bolt round head, hexagon locknut, two stainless steel washers
ASTM B221, Alloy 6062-T6 or Alloy 6061-T6
6 1/2"
3/8" gap ±1/4" ⑤
WF(A-N)4x3.06
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.
P
1 1/2"
1/2"
℄ 3/8" x 3" x 7"
℄ 3/8" φ hole in angle for 5/16" φ eyebolt with one nut and stainless steel washer.
℄ 7/16" φ holes for 3/8" φ hex head bolts, each with nut and two stainless steel washers.
2'-10 1/2"
Sign panel
ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"
5"
1"
3"
1"
1/4"
3/4"
1 3/4"
2 1/4"
3/8"
℄ 3/16" φ hole for pin chain ring
3/16
7/8"
1 5/16"
1 5/8"
2 1/2"
5/16"
SIDE ELEVATION
2 1/2" x 1 1/4" x 1/4" L5" long (Each side) ④
3/16
1/8" plate 1 1/2" φ
3/16
1/16
FRONT ELEVATION
Details not shown same as "ELEVATION" at right.
7 1/2"
2 1/2"
℄ Sym.
1 1/4"
1 1/4"
1/2"
1/2"
1/4"
Flat, out-out
No back gouge
G
Extension bar 1/4" x 2" x 6" Each side
ELEVATION AT HANDRAIL JOINT ④
Details not shown same as "FRONT ELEVATION"
Field drill 3/8" φ hole for 5/16" φ eye-bolt. (At approximately elevation of upper handrail pipe.)
3'-6" of chain required for each location. (Approx.) ③
Stainless steel swivel eye snap at handrail end
Vertical member of walkway bracket (No sign interference)
5/16" φ stainless steel eye-bolts. Provide washer and hexagon locknut.
SAFETY CHAIN
One required for each end of each walkway.
℄ 3/8" x 3" x 7"
∠2 1/2" x 2 1/2" x 5/16"
℄ 7/16" φ holes for 3/8" φ hex head bolts
2 1/4"
5"
1 1/2"
1/2"
℄ 3/8" φ eyebolt hole
1'-2 1/2"
WF(A-N)4x3.06 web
SECTION P-P
Drill and ream for 3/8" φ bolt with two hexagon locknuts and two stainless steel washers.
1/4" φ ring-grip quick release self-locking stainless steel pin
1 1/4" φ Sch. 40 aluminum pipe
2" typ.
3/8" φ pin keeper hole typ.
1" typ
1/16" stainless steel chain, 6" long, with 1/16" stainless steel ring each end
PLAN
DETAIL E HANDRAIL HINGE
6"
1/2", typ.
2"
PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"
∠2 1/2" x 2 1/2" x 5/16"
Eyebolt
3'-10" chain ③ (Approx.)
Sign panel
Walkway bracket
Eyebolt
Stainless steel swivel eye snap at handrail end
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.

NUMBER	REVISION	DATE

OSC-A-8 12-1-08

FILE NAME =	USER NAME = cearlockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES HANDRAIL DETAILS ALUMINUM TRUSS & STEEL POST
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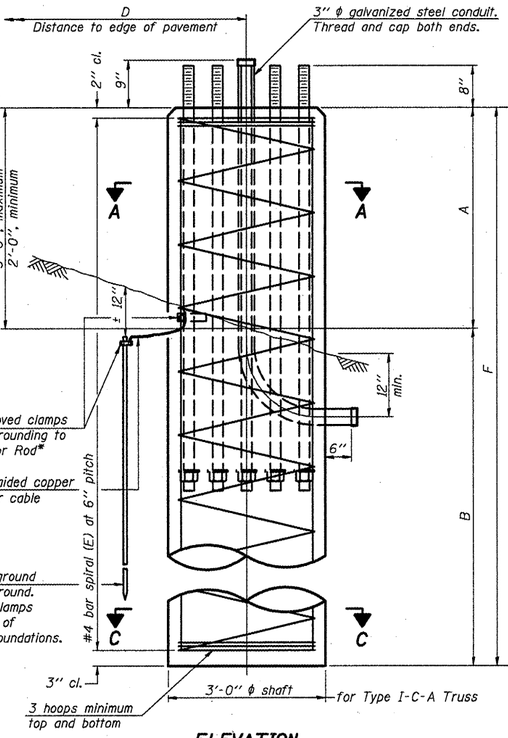
	PLOT DATE = 1/21/2010	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.
		DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	62
• Various		CONTRACT NO. 46110		
		ILLINOIS FED. AID PROJECT		

* Grind anchor rod to bright finish at ground clamp location before installing clamp.



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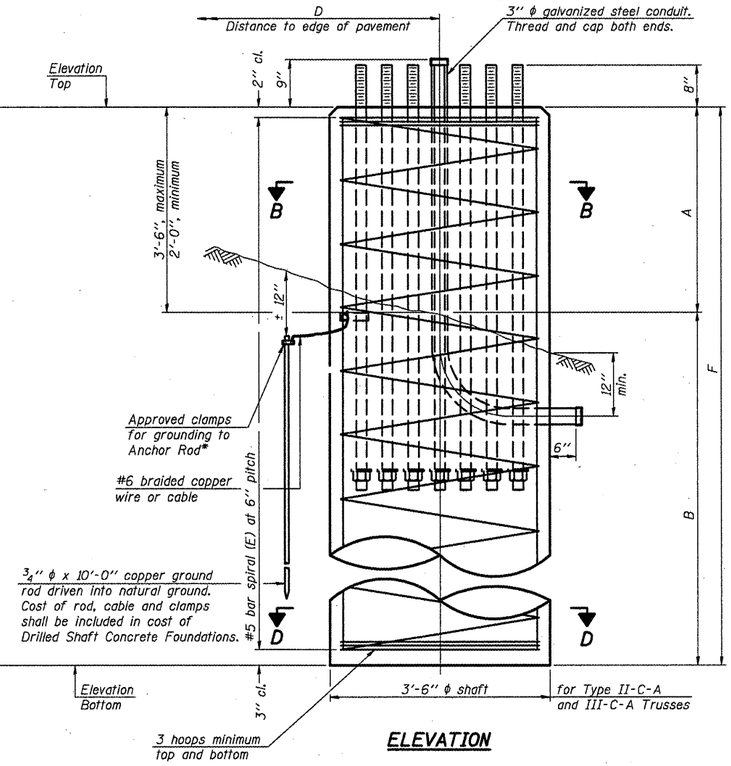

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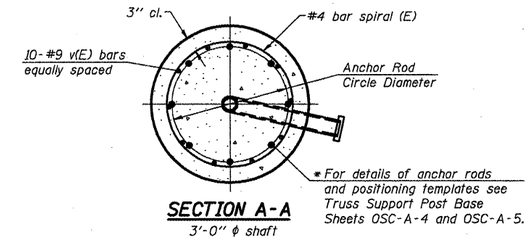
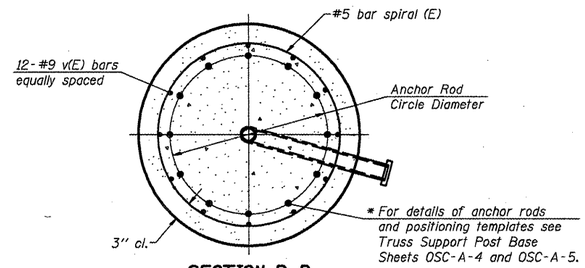
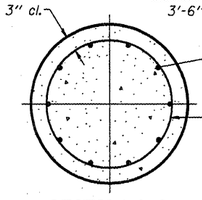


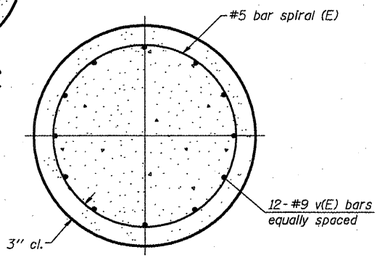
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DATA TABLE

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
5 C 092 S001 L027.29	3046+27	II-C-A	3'-6"	639.50			3'-0"	22'-0"	25'-0"	9.0
5 C 092 S001 R027.13	3052+73	II-C-A	3'-6"	634.25			3'-0"	22'-0"	25'-0"	9.0
5 C 092 S001 L027.09	3056+65	II-C-A	3'-6"	634.85			3'-0"	22'-0"	25'-0"	9.0

FOUNDATION DESIGN TABLE

Truss Type	Post Base Sheet	Maximum CantileverLength (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods No.	Anchor Rods Diameter (in)	Anchor Rod Circle Diameter (in)
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

NUMBER	REVISION	DATE

OSC-A-9 12-1-08

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	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

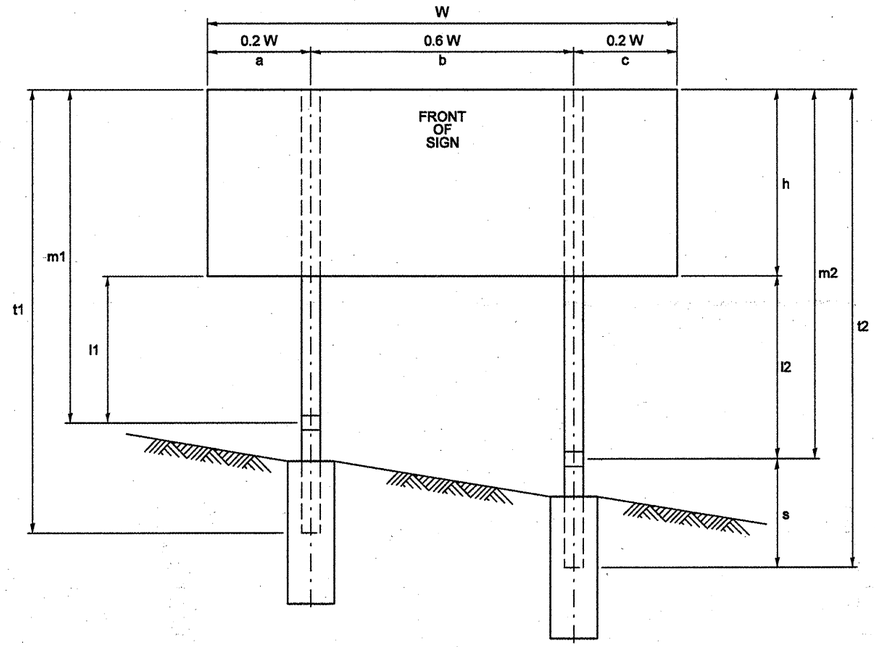
CANTILEVER SIGN STRUCTURES DRILLED SHAFT ALUMINUM TRUSS & STEEL POST

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	63
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

BREAK AWAY GROUND MOUNT SIGNAGE LAYOUT
VERMILION & CHAMPAIGN COUNTIES

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	leg2 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.
GM-1	5 C 092 S001 L027.48	Center between back of guardrail and chain link fence	7 feet from the top of curb	9.0' x 3.0'	9.0	1.8	5.4	1.8	7.0	3.0	7.0	7.0	10.0	10.0	2.5	12.5	12.5	W6 x 15	15.0	375.0	1.40
GM-2	5 C 092 S001 L027.44	6 feet from the back of curb	10 feet from the top of curb	14.0' x 10.0'	14.0	2.8	8.4	2.8	10.5	10.0	10.0	10.5	20.0	20.5	3.0	23.0	23.5	W10 x 26	26.0	1209.0	2.54
GM-3	5 C 092 S001 L027.25	6 feet from the back of curb	10 feet from the top of curb	12.5' x 7.5'	12.5	2.5	7.5	2.5	10.5	7.5	10.0	10.5	17.5	18.0	3.0	20.5	21.0	W10 x 22	22.0	913.0	2.36
GM-4	5 C 092 S001 R027.23	4 feet from the back of curb	10 feet from the top of curb	10.0' x 5.0'	10.0	2.0	6.0	2.0	10.0	5.0	10.0	10.0	15.0	15.0	2.5	17.5	17.5	W6 x 15	15.0	525.0	1.40
GM-5	5 C 092 S001 R027.03	4 feet from the back of curb	10 feet from the top of curb	14.0' x 7.5'	14.0	2.8	8.4	2.8	10.5	7.5	10.0	10.5	17.5	18.0	3.0	20.5	21.0	W10 x 22	22.0	913.0	2.36
GM-6	5 C 092 I074 R209.90	7.5' from E.O.S. = center fdn's around 30" pipe	8 feet from white stripe / edge of pavement	16.5' x 13.0'	16.5	3.3	9.9	3.3	7.0	13.0	7.0	2.75	20.0	15.75	3.5	23.5	19.25	W14 x 38	38.0	1624.5	4.18
GM-7	5 C 092 I074 L213.60	4 feet from the back of curb	7 feet from the top of curb	12.5' x 5.5'	12.5	2.5	7.5	2.5	7.5	5.5	7.5	7.0	13.0	12.5	2.5	15.5	15.0	W6 x 15	15.0	457.5	1.40
GM-8	5 C 092 I074 R213.70	4 feet from the back of curb	7 feet from the top of curb	13.5' x 5.5'	13.5	2.7	8.1	2.7	7.5	5.5	7.5	7.0	13.0	12.5	2.5	15.5	15.0	W6 x 15	15.0	457.5	1.40
GM-9	5 C 092 I074 L213.79	4 feet from edge of shoulder	7 feet from white stripe / edge of pavement	12.0' x 9.5'	12.0	2.4	7.2	2.4	10.0	9.5	8.5	10.0	18.0	19.5	3.0	21.0	22.5	W10 x 22	22.0	957.0	2.36
GM-10	5 C 010 I074 R000.05	4 feet from the back of curb to the left edge of sign	7 feet above the top of curb	14.0' x 11.0'	14.0	2.8	8.4	2.8	7.5	11.0	7.0	7.5	18.0	18.5	3.0	21.0	21.5	W10 x 26	26.0	1105.0	2.54
GM-11	5 C 010 I074 R000.13	6 feet from the back of curb to the left edge of sign	10 feet above the top of curb	14.5' x 5.5'	14.5	2.9	8.7	2.9	10.5	5.5	10.0	10.5	15.5	16.0	2.5	18.0	18.5	W8 x 18	18.0	657.0	1.40
GM-12	5 C 010 I074 R000.19	4 feet from the back of curb to the left edge of sign	10 feet above the top of curb	11.0' x 5.5'	11.0	2.2	6.6	2.2	10.5	5.5	10.5	10.5	16.0	16.0	2.5	18.5	18.5	W6 x 15	15.0	555.0	1.40
GM-13	5 C 010 I074 L000.29	6 feet from the back of curb to the left edge of sign	7 feet above the top of curb	13.5' x 11.0'	13.5	2.7	8.1	2.7	10.0	11.0	7.5	10.0	18.5	21.0	3.0	21.5	24.0	W10 x 26	26.0	1183.0	2.54



CH = Clear Height = the greater of l1 or l2

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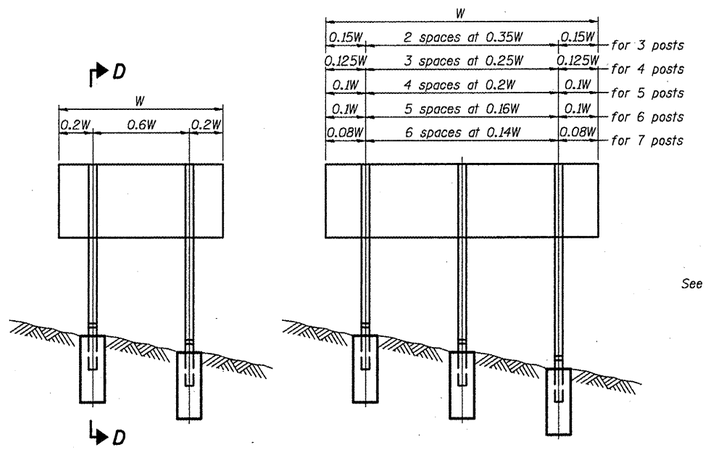
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/4/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

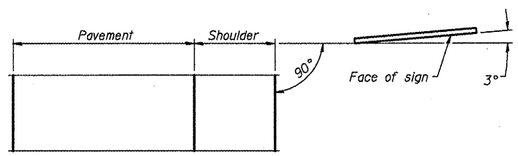
BREAK AWAY GROUND MOUNT SIGNAGE LAYOUT
VERMILION & CHAMPAIGN COUNTIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

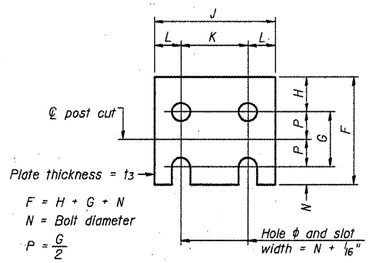
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	64
*	Various	CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



ELEVATION



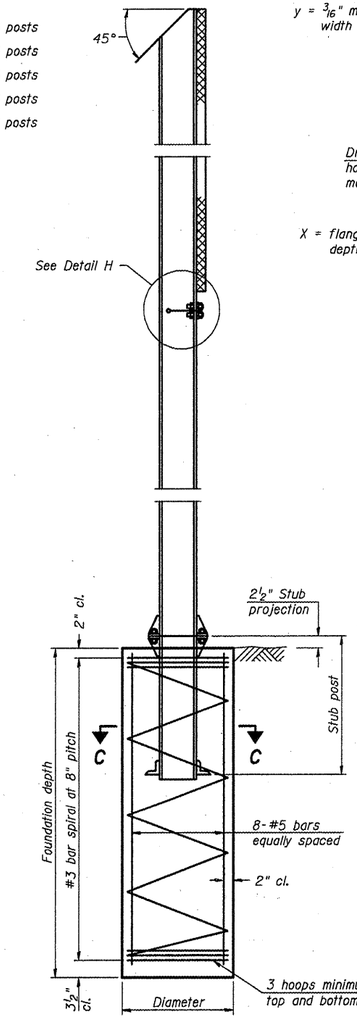
LOCATION SKETCH



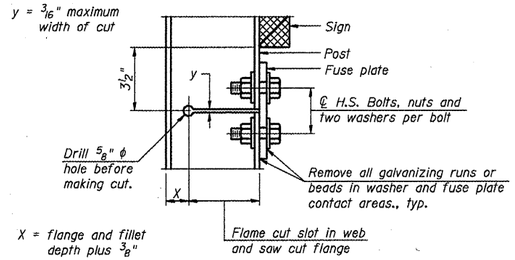
FUSE PLATE DETAIL

(Install with notches down.)

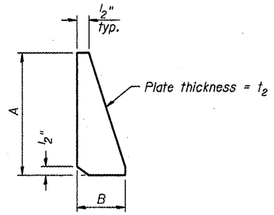
FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



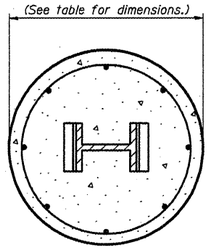
SECTION D-D



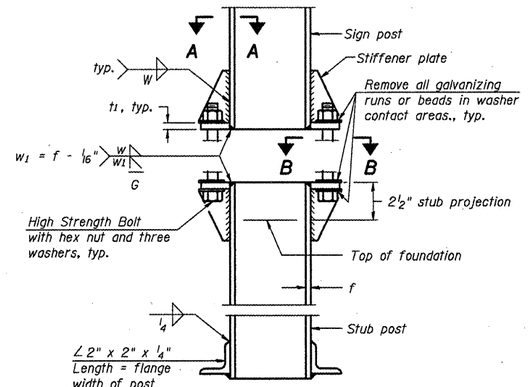
DETAIL H



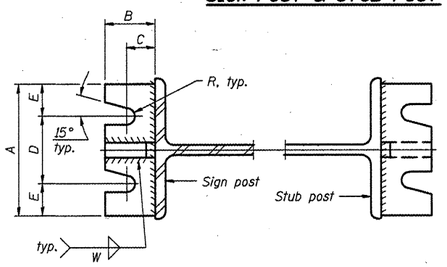
STIFFENER PLATE DETAIL



SECTION C-C

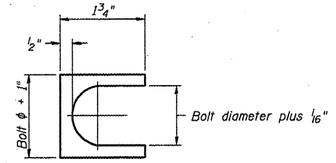


ELEVATION SIGN POST & STUB POST



SECTION A-A

SECTION B-B



SHIM DETAIL

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

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.

Work this sheet with Base Sheet BAW-A-2.

NUMBER	REVISION	DATE

BAW-A-1 12-1-08

FILE NAME = c:\pw_work\PWIDOT\CEARLOCKJD\d0180151\D546110-sht-details.dgn	USER NAME = cearlockjd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS

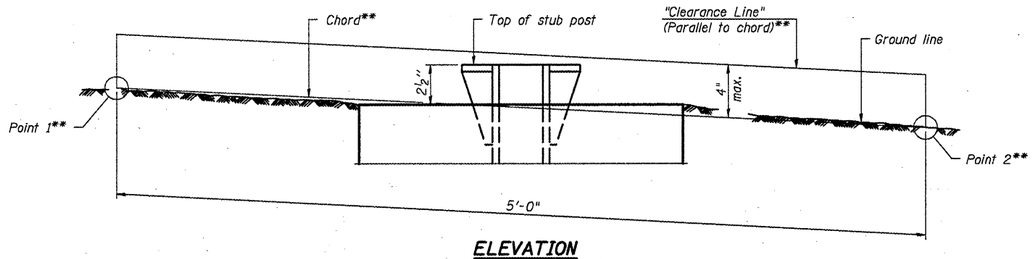
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	65
•	Various	CONTRACT NO. 46110		
ILLINOIS	FED. AID PROJECT			

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation		Reinforcement					Stub Post														
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length	Bolt Size	A	B	C	D	E	t_1	t_2	R	W	J	K	L	t_3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-3"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	4"	2¼"	⅞"	¼"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	6"	3½"	1¼"	⅜"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¼"	2¾"	1¼"	⅜"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2½"	105'-0"	92	3'-0"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¾"	2¾"	1½"	½"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2½"	112'-0"	98	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	5¾"	2¾"	1½"	⅝"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2½"	119'-0"	107	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6½"	3½"	1½"	⅝"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8½"	145'-0"	113	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6¾"	3½"	1⅝"	½"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8½"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	1⅝"	½"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8½"	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	7"	3½"	1¾"	½"

*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	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	—	—	—	—	—	—	—	—	—	—	—	—
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	—	—	—	—	—	—	—	—	—	—	—
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	—	—	—	—	—	—	—	—
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	—	—	—	—	—	—	—
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	—	—	—	—	—	—
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	—	—	—	—
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45	—	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



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.

NUMBER	REVISION	DATE

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 with "Concrete Foundations".

BAW-A-2 12-1-08

(Sheet 2 of 2)

FILE NAME = c:\pw_work\PWIDOT\CEARLOCKJD\d0180151\D548118-sht-details.dgn	USER NAME = cearlockjd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40.0000 ' / IN.	DRAWN -	REVISED -			•	D-5 OSS REPL 2010-46	Various	77	66
	PLOT DATE = 1/21/2010	CHECKED -	REVISED -			• Various		CONTRACT NO. 46110		
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

VERMILION COUNTY SIGN STRUCTURES
I–74 @ US 150 /EXIT 210 & G STREET /EXIT 214

Location No.	GM-6
Structure No.	5 C 092 I074 R209.90
County / Route	VERMILION CO. - I-74 EB - Exit 210 - US 150/MLK
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.

CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.00
72000300	SIGN PANEL - TYPE 3	SQFT	214.50
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	121.50
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1624.50
73400100	CONCRETE FOUNDATIONS	CUYD	4.18
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7012615	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	14.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	GM-8
Structure No.	5 C 092 I074 R213.70
County / Route	VERMILION CO. - intersection of G St. & 2nd St. - below I-74 EB - Exit 214
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.

CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	74.25
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	78.75
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	457.50
73400100	CONCRETE FOUNDATIONS	CUYD	1.40
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	GM-7
Structure No.	5 C 092 I074 L213.60
County / Route	VERMILION CO. - intersection of G St. & 1st St. - below I-74 WB - Exit 214
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.

CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	68.75
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	71.25
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	457.50
73400100	CONCRETE FOUNDATIONS	CUYD	1.40
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	GM-9
Structure No.	5 C 092 I074 L213.79
County / Route	VERMILION CO. - I-74 WB Mainline - Exit 214 - G Street
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.

CODE NUMBER	PAY ITEM	UNIT	QUANTITY
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2.00
72000300	SIGN PANEL - TYPE 3	SQFT	114.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	73.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	957.00
73400100	CONCRETE FOUNDATIONS	CUYD	2.36
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7012615	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	EACH	1.00
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	14.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

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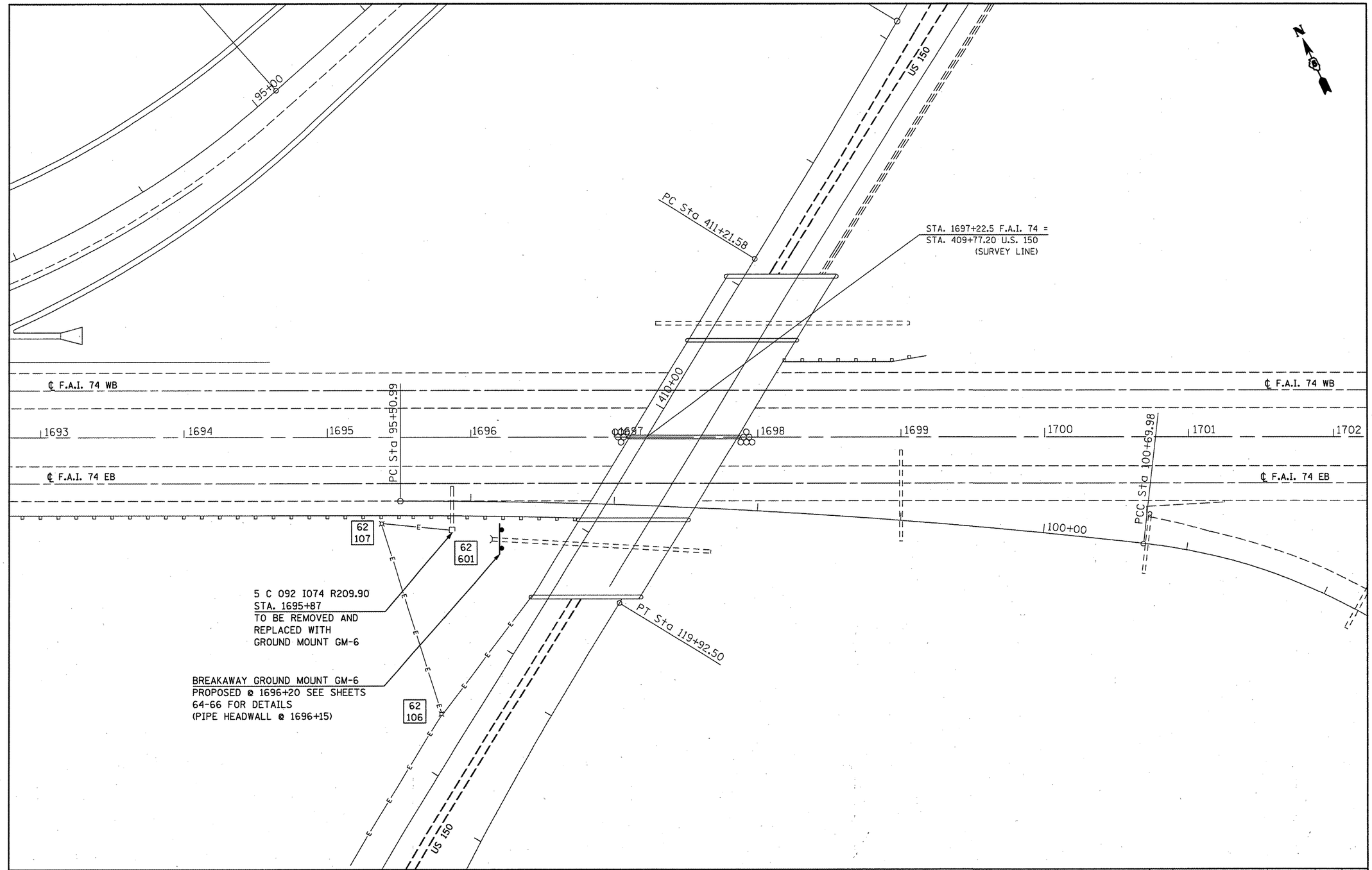
	PLOT DATE = 2/4/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VERMILION COUNTY SIGN STRUCTURES
I–74 @ US 150 /EXIT 210 & G STREET /EXIT 214

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	67
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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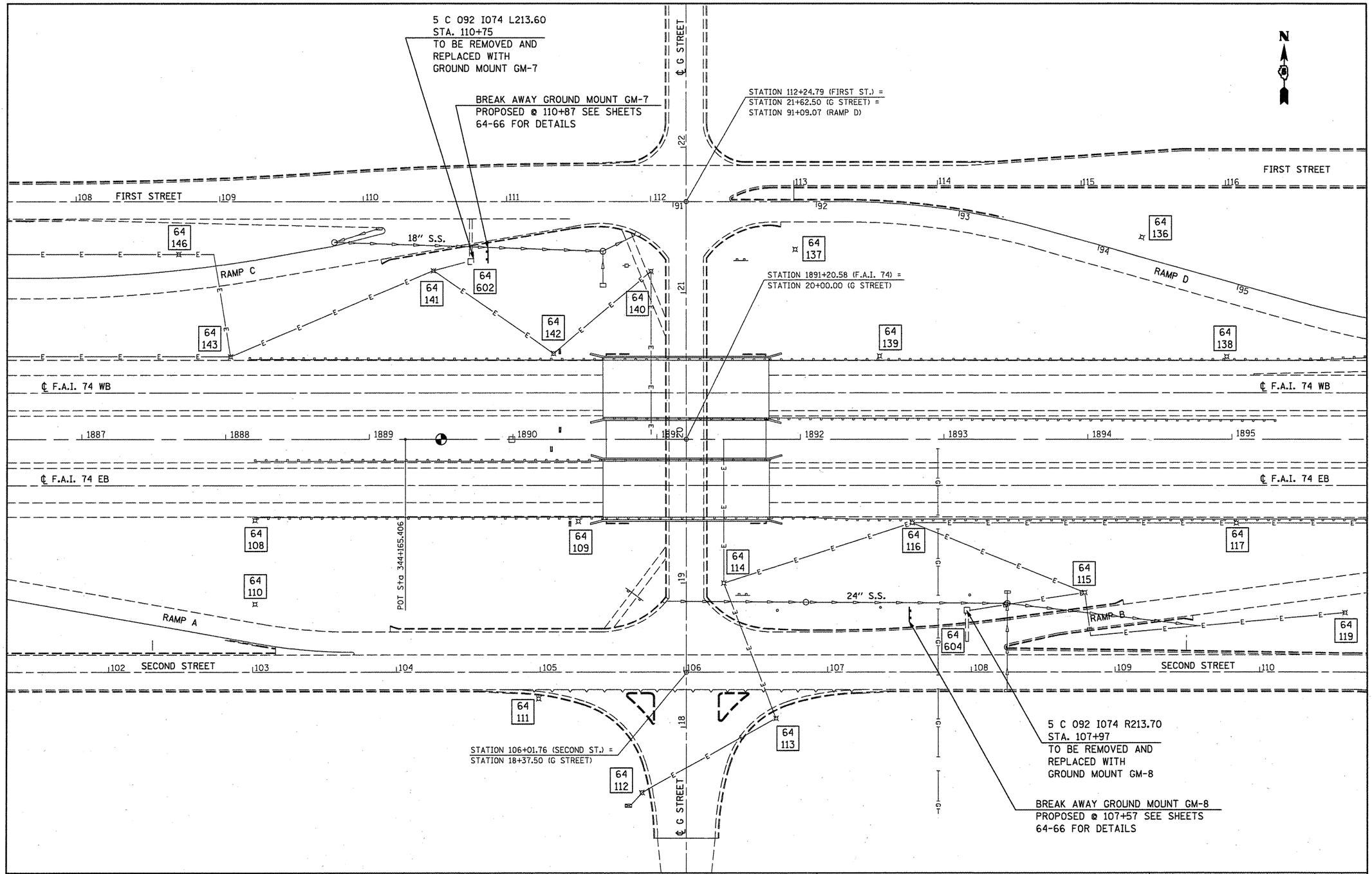
	PLOT DATE = 1/22/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIT 210 I-74 & US 150 /MLK PLAN VIEW

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	68
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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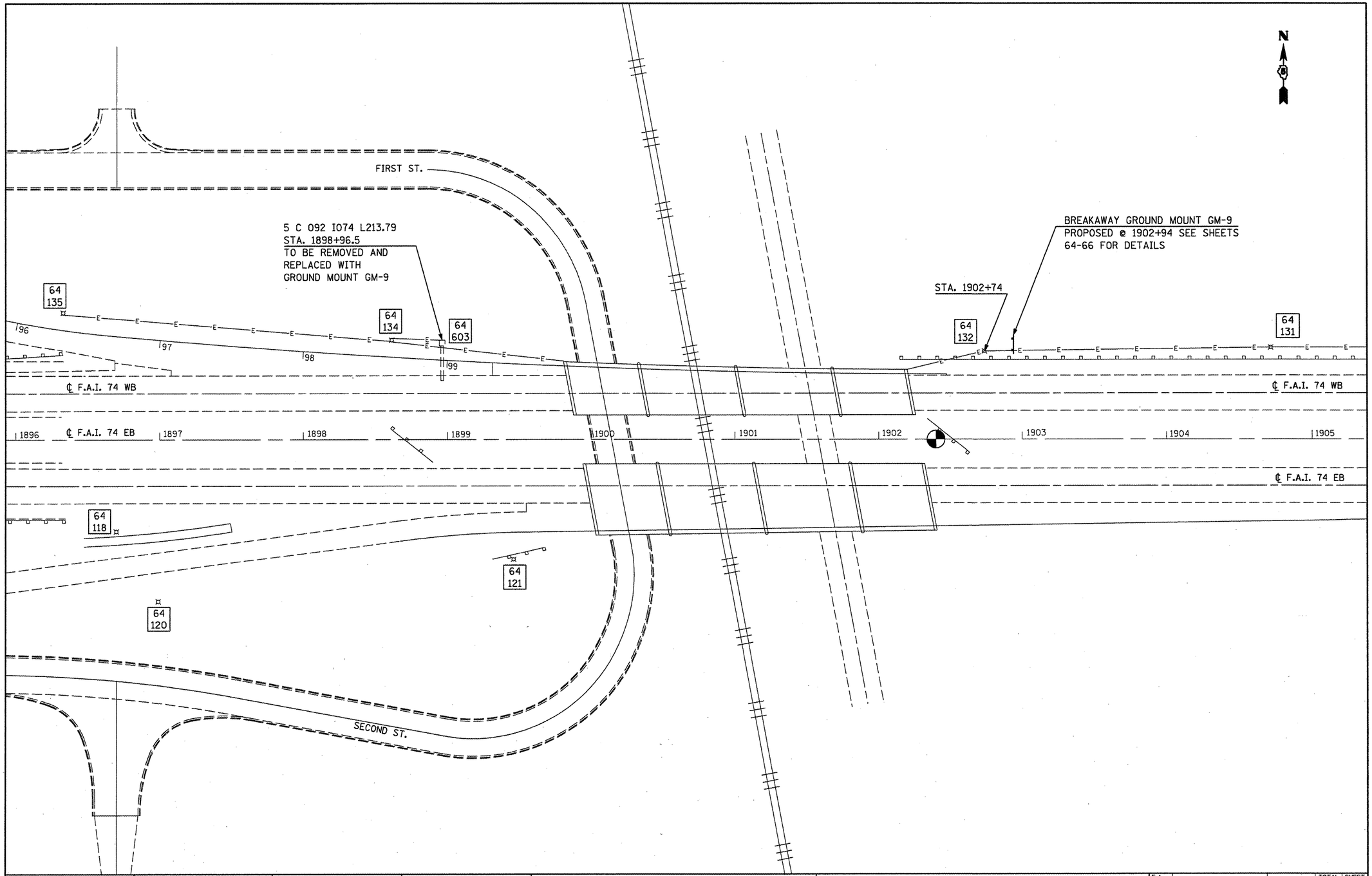
		DRAWN -	REVISED -
	PLOT SCALE = 60.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/22/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

G STREET PLAN VIEW

SCALE: 1" = 30' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	69
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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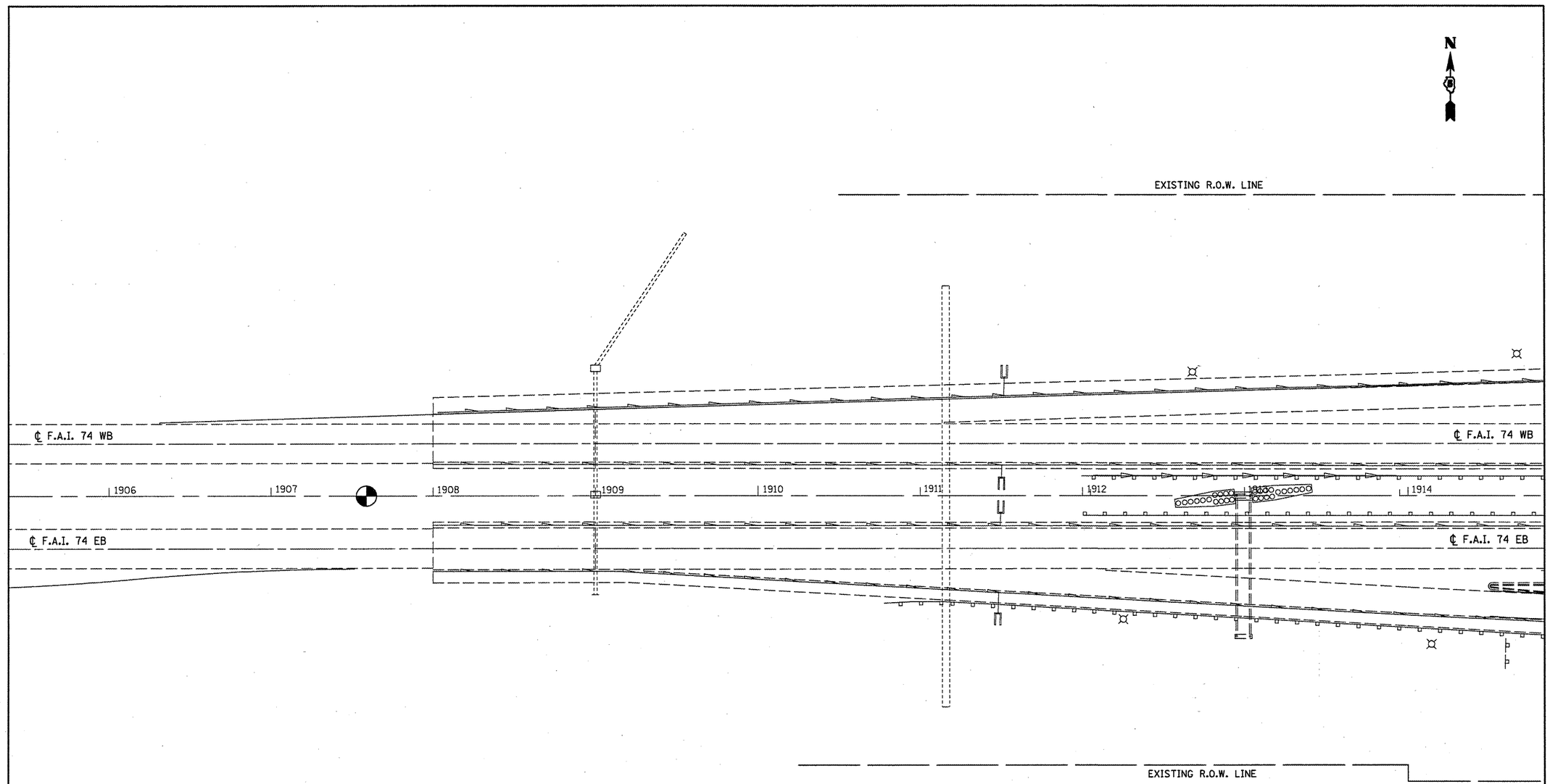
	PLOT DATE = 1/22/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

G STREET PLAN VIEW

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	70
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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	PLOT DATE = 1/22/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

G STREET PLAN VIEW

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	71
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
IDOT – Region 3/Dist 5

SOIL BORING LOG

Page 1 of 1

Date 11/3/09

ROUTE FA 332 (IL Rt. 1) DESCRIPTION Mast Arm on IL 1NB at FAI 74EB On Ramp LOGGED BY CNA

SECTION LOCATION SW, SEC. 17, TWP. 19N, RNG. 11W, 2nd PM GPS:

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 5 C 092 S001
STRUCT. NO. L027.29
Station 3046+09

BORING NO. 1 Mast Arm
Station 3046+22
Offset 69.0 ft Rt.
Ground Surface Elev. 636.2 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 617.7 ft ▼
Upon Completion Dry ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Black Silty Clay Loam (Topsoil)				
635.2				
Gray/Brown Mottled Silty Clay		2		
	-5	3	0.9	17
		3	B	
630.2				
Brown/Gray Silty Clay Loam Till		2		
		3	1.0	14
		6	B	
627.2		0		
Gray/Brown Sandy Clay Loam Till		2	1.0	15
	-10	3	E	
		2		
		4	1.0	11
		6	B	
		2		
		2	1.8	12
	-15	1	B	
620.2				
Brown/Gray Sand Loam Till		2		
		2	4.5	9
		3	P	
617.7 ▼				
Brown Oxidized Dirty Coarse Sand with Free Water		1		
		1		
	-20	2		
Brown Oxidized Dirty Coarse Sand with Free Water (continued)				
614.7		8		
Gray Sand Loam Till with Shale & Gravel Inclusions (Drilled Very Rough)		23		10
		28		
612.2		4		
Gray Shale (Bedrock)		18		13
611.2	-25	24		
End of Boring				
	-30			
	-35			
	-40			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

12/4/2009 10:16:43 AM S:\SOILS\BORING LOGS\VERMILION CNTY\MAST ARMS RT 1.GPJ

Illinois Department of Transportation
Division of Highways
IDOT – Region 3/Dist 5

SOIL BORING LOG

Page 1 of 1

Date 10/12/07

ROUTE Illinois Rt. 1 DESCRIPTION Mast Arm on IL Rt. 1 SB at FAI 74 Ramp LOGGED BY CNA

SECTION LOCATION SW, SEC. 17, TWP. 19N, RNG. 11W, 2nd PM GPS:

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 5 C 092 S001
STRUCT. NO. R027.13
Station 52+00

BORING NO. 1 Mast Arm
Station 52+14
Offset 27.0 ft Rt.
Ground Surface Elev. 630.9 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion Dry ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Sandy Loam with Broken Bricks & Concrete (Embankment)				
(Note: Large Concrete debris in fill to 12'– Had to change drilling location farther South)		4		
	-5	3		15
		5		
		2		
623.9				
Brown Sandy Clay Loam Till		3	2.1	20
		4	S	
		2		
		3	2.3	11
620.9	-10	5	S	
Brown/Pink Sandy Clay Loam Till		6		
		16		6
		20		
616.9		8		
Gray Massive Shale (Bedrock)		23		11
	-15	14		
		3		
		9	3.7	13
	-20	13	S	
Gray Massive Shale (Bedrock) (continued)				
(Drilled Hard)		20		
		37		9
605.9	-25	50–5"		
End of Boring				
	-30			
	-35			
	-40			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

12/4/2009 10:24:57 AM S:\SOILS\BORING LOGS\VERMILION CNTY\092-MAST ARMS RT 1 OCT 2007.GPJ

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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	72
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
IDOT – Region 3/Dist 5

SOIL BORING LOG

Date 10/11/07

ROUTE FAI Rt 74 DESCRIPTION I-74 EB Off Ramp to US 150 LOGGED BY CNA

SECTION LOCATION SW, SEC. 10, TWP. 19N, RNG. 12W, 2nd PM GPS:

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 5 C 092 1074
Station R209.90
54+50

BORING NO. 5 Mast Arm
Station 1595+99
Offset 14.0 ft Rt.
Ground Surface Elev. 621.3 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 615.3 ft
Upon Completion WASHED ft
After Hrs. ft

	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Silty Clay Loam				
		2		
		5		
	-5	4		
	615.3 ▼			
Brown Coarse Sand with Gravel		4		
		11		
(2 Feet of Sand Blow In)		12		
		3		
		11		
	-10	18		
	607.3	17		
Gray Clay Loam Till		16		8
	-15	21		
	604.3			
Pink/Brown Clay Loam Till				
		21		
		47		11
	-20	50-5"		

	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Pink/Brown Clay Loam Till (continued)				
		20		
		20	9.1	9
	-25	31	S	
	595.3			
Brown Coarse Sand with Gravel				
(8 Feet of Sand Blow In)				
	593.3			
Brown Clay Loam Till		13		
		31	9.1	8
(Rods Stuck in Augers From Sand Blow In -- Pulled Augers)	-30	37	S	
	591.3			
End of Boring				
	-40			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The SPT (N Value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

12/4/2009 10:25:35 AM S:\SOILS\BORING LOGS\VERMILION CNTY\092-MAST ARMS FAI RT 74 OCT 2007.GPJ

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	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	73
• Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			

CHAMPAIGN COUNTY SIGN STRUCTURES
NEIL STREET OVER I-74

Location No.	GM-10		
Structure No.	5 C 010 I074 R000.05		
County / Route	CHAMPAIGN CO. - SB Neil St. in Champaign - between Anthony Dr. & I-74		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	154.00
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	135.25
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1105.00
73400100	CONCRETE FOUNDATIONS	CUYD	2.54
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	GM-12		
Structure No.	5 C 010 I074 R000.19		
County / Route	CHAMPAIGN CO. - SB Neil St. in Champaign - between I-74 & Kenyon Rd.		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	60.50
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	55.00
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	555.00
73400100	CONCRETE FOUNDATIONS	CUYD	1.40
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	GM-11		
Structure No.	5 C 010 I074 R000.13		
County / Route	CHAMPAIGN CO. - NB Neil St. in Champaign - between I-74 & Anthony Dr.		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	79.75
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	71.50
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	657.00
73400100	CONCRETE FOUNDATIONS	CUYD	1.40
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

Location No.	GM-13		
Structure No.	5 C 010 I074 L000.29		
County / Route	CHAMPAIGN CO. - NB Neil St. in Champaign - between Kenyon Rd. & I-74		
Scope of Work	This overhead cantilever is to be removed & replaced with a breakaway ground mount.		
CODE NUMBER	PAY ITEM	UNIT	QUANTITY
72000300	SIGN PANEL - TYPE 3	SQFT	148.50
72400330	REMOVE SIGN PANEL - TYPE 3	SQFT	133.75
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	1183.00
73400100	CONCRETE FOUNDATIONS	CUYD	2.54
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	1.00
73700300	REMOVE CONCRETE FOUNDATION OVERHEAD	EACH	1.00
X7012630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	1.00
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	1.00

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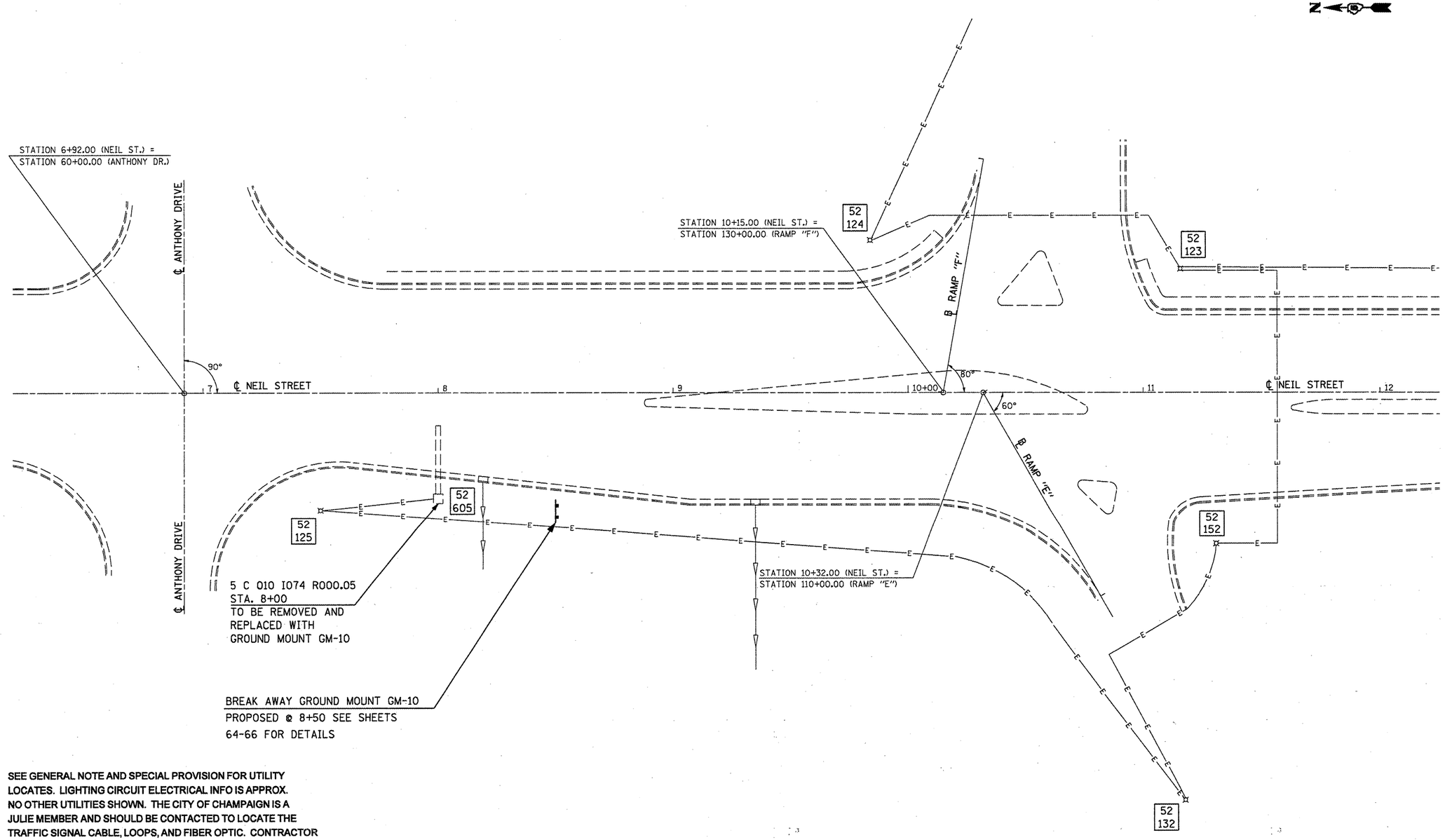
	PLOT DATE = 2/4/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHAMPAIGN COUNTY SIGN STRUCTURES
NEIL STREET OVER I-74

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	74
• Various		CONTRACT NO. 46110		
ILLINOIS FED. AID PROJECT				



SEE GENERAL NOTE AND SPECIAL PROVISION FOR UTILITY LOCATES. LIGHTING CIRCUIT ELECTRICAL INFO IS APPROX. NO OTHER UTILITIES SHOWN. THE CITY OF CHAMPAIGN IS A JULIE MEMBER AND SHOULD BE CONTACTED TO LOCATE THE TRAFFIC SIGNAL CABLE, LOOPS, AND FIBER OPTIC. CONTRACTOR SHALL VERIFY THIS LOCATE IS DONE PRIOR TO CONSTRUCTION.

FILE NAME = c:\pw_work\PWIDOT\CEARLOCKJD\d0180151\D46110-sht-Neil St-plan.dgn	USER NAME = cearlock_jd	DESIGNED -	REVISED -
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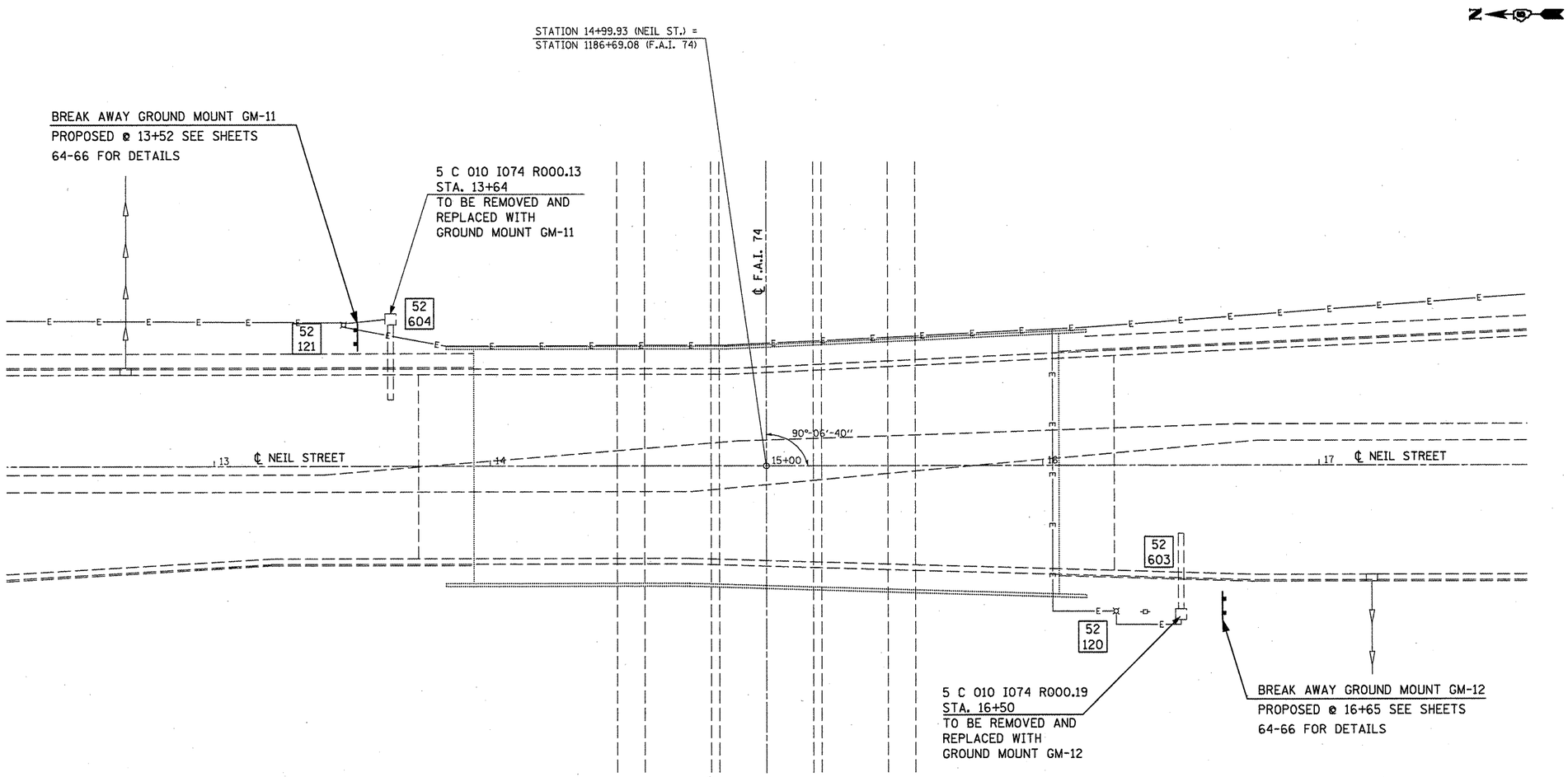
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NEIL STREET
Between Anthony Drive and Kenyon Road

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	D-5 OSS REPL 2010-46	Various	77	75
•	Various	CONTRACT NO. 46110		
		ILLINOIS FED. AID PROJECT		



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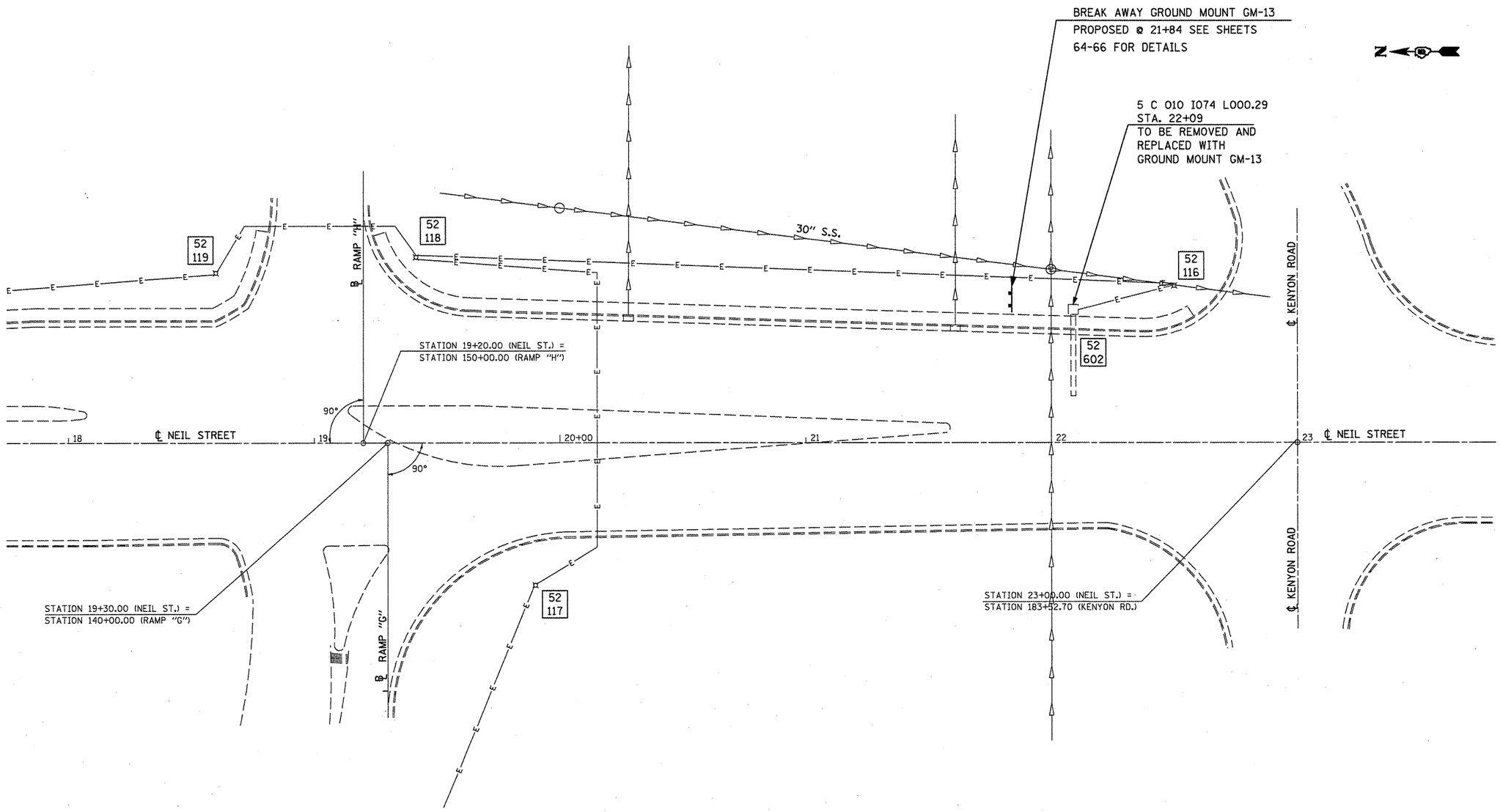
	PLOT DATE = 1/21/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NEIL STREET
Between Anthony Drive and Kenyon Road

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	76
* Various		CONTRACT NO. 46110		
	ILLINOIS FED. AID PROJECT			



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		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NEIL STREET
Between Anthony Drive and Kenyon Road

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	D-5 OSS REPL 2010-46	Various	77	77
* Various		CONTRACT NO. 46110		
ILLINOIS FED. AID PROJECT				