DIVISION OF HIGHWAYS

Various Routes
D 1 OVD SIN STR REPL 2010-29
Various Counties
Sheet 1 of 16
Contract Number 46092

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

Various Routes
D 1 OVD SIN STR REPL 2010-29
Various Counties
C-60-030-10

INDEX OF SHEETS

NO. DESCRIPTION

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2 SUMMARY AND SCHEDULE OF QUANTITIES
3-16 SCHEDULE OF LOCATIONS FOR DISTRICT 1

STANDARDS 701101-02 701106-02 701400-04 701401-05 701406-05 701411-06 701901-01

720021-02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED NOV. 2 20 09
ENGINEER OF OPERATIONS

PASSED

ENGINEER OF OPERATIONS

PAGE OF DESIGN AND ENVIRONMENT

APPROVED Allember 4, 20 09

Christine M. Reed Re

DIRECTOR DIVISION OF HIGHWAYS

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

CONTRACT NO.

46092

Summary and Schedule of Quantities

CODE NUMBER	PAY ITEM AND	UNIT	Y002 - 1C 100% STATE TOTAL QUANTITY	URBAN	
T9995400	FURNISH V INSTALL SADDLE SHIM BLOCK	EACH	48.00	48.00	
T9996200	REPAIR CONCRETE FOUNDATION FOR OVERHEAD SIGN STRUCTURE	EACH	2.00	2.00	·
T9996300	OVERHEAD SIGN SUPPORT GROUT REPAIR	EACH	16.00	16.00	
T9997255	FURNISH INSTALL INTERNAL TRUSS DAMPER	EACH	12.00	12.00	
T9997700	FURNISH INSTALL SAFETY CHAIN	EACH	24.00	24.00	
T9998820	FURNISH INSTALL HANDRAIL	FOOT	905.25	905.25	
T9998910	FURNISH VINSTALL METAL SCREEN	EACH	32.00	32.00	
67100100	MOBILIZATION	L SUM	1.00	1.00	
70101700	TRAFFIC CONTROL PROTECTION	LSUM	1.00	1.00	
73305000	OVERHEAD SIGN STRUCTURE WALKWAY	FOOT	1,110.00	1,110.00	
73800100	STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE-SPAN	EACH	24.00	24.00	
73801100	REMOVE RE ERECT OVERHEAD SIGN STRUCTURE-SPAN	EACH	12.00	12.00	
X0325702	NIGHTTIME WORK ZONE LIGHTING	L SUM	1.00	1.00	
X0326714	REPLACE OVERHEAD SIGN STRUCTURE ANCHOR ROD	EACH	5.00	5.00	
X0326715	REMOVE LIGHT GLARE REDUCTION SYSTEM	EACH	1.00	1.00	

Various Routes D 1 OVD SIN STR REPL 2010-29 Various Counties Sheet 3 of 16 Contract Number 46092

District 1 Schedule of Overhead Sign Structure Repair & Replacement

Location No.:	1-01	State I.D). No.:	1	S045U0	30R0	00.0-001	I(KG6)
County:	nty: Kane Route: US-30 M.P.: 0.0 Direction							ction: EB
Description of Work Uni								Quantity
Remove & Re-erect Overhead Sign Structure - Span Each 1.00								
Structural Ste	el Support Ove	rhead Si	gn Stru	cture	Э		Each	2.00
Furnish & Inst	all Internal Trus	s Dampe	r				Each	1.00
Furnish & Inst	all Safety Chai	ń					Each	2.00
Overhead Sig	ın Support Gro	ut Repair					Each	4.00
Overhead Sig	n Structure Wa	alkway					Foot	70.00
Furnish & Install Saddle Shim Block Ea								4.00
This work shall	l be completed	during Dis	trict 1 r	ight-	time hou	ırs.		

Location N	o.: 1-02	State I.D). No.:	1S049L	041R0	00.0-004	4 (T3)	
County:	Lake	Route:	US-41	M.P.:	0.0	Direc	tion: NB	
Description	n of Work					Unit	Quantity	
Remove Li	escription of Work emove Light Glare Reduction System							
This work sl	hall be complete	d during Dis	trict 1 nigh	nt-time ho	urs.			

Location No.:	1-03	State I.I	D. No.:		18045	S056L	.000.0 (H	lG3)	
County:	Kane	Route:	IL 56	3	M.P.:	0.0	Direc	tion: WB	
Description of Work Uni								Quantity	
Remove & Re-erect Overhead Sign Structure-Span Each 1.00									
Structural Steel Sign Support Overhead Sign Structure Each 2.00									
Furnish & Install Internal Truss Damper Each 1.00									
Furnish & Inst	all Safety Chair	1					Each	2.00	
Overhead Sig	ın Support Gro	ut Repai	r				Each	4.00	
Overhead Sig	ın Structure Wa	lkway	ō				Foot	67.00	
Furnish & Inst	all Saddle Shin	n Block					Each	4.00	
Repair Concrete Foundation for Overhead Sign Structure Each 2.00									
This work shal	l be completed o	during Di	strict 1 n	ight-	time hou	rs.			

Location No.:	1-04	State I	.D. No.:		1S01	61057F	34	1.9 (V	V2)
County:	County: Cook Route: I-57 M.P.: 341.9 Direction: N							tion: NB	
Description of Work Unit Quantity								Quantity	
Remove & Re-erect Overhead Sign Structure-Span Each 1.00									
Structural Steel Sign Support Overhead Sign Structure Each 2.00									
Furnish & Install Internal Truss Damper Each 1.00								1.00	
Furnish & Inst	all Safety Chai	n					E	ach	2.00
Overhead Sig	n Structure Wa	alkway					F	oot	111.50
Furnish & Inst	all Saddle Shir	n Block					E	Each	4.00
Furnish & Install Metal Screen Each 4.00									4.00
This work shall be completed during District 1 night-time hours.									

Location No.:	1-05	State I.	D. No.:		1S01	61057L3	342.4 (V	/1)
County:	Cook	Route:	I- 57	·	И.Р.:	342.4	Direc	tion: SE
Description of	f Work						Unit	Quantit
Remove & Re	e-erect Overhea	ad Sign	Structur	e-Spa	n		Each	1.00
Structural Ste	el Sign Suppor	t Overhe	ad Sig	n Struc	ture		Each	2.00
Furnish & Inst	all Internal Trus	s Damp	er				Each	1.00
Furnish & Inst	all Safety Chair	n					Each	2.00
Overhead Sig	n Structure Wa	lkway					Foot	112.50
Furnish & Inst	all Saddle Shin	n Block					Each	4.00
Furnish & Inst	all Metal Scree	n					Each	4.00
This work shall	l be completed o	during Di	strict 1 r	night-tir	ne ho	urs.		

Location No.:	1-06	State I.D.	No.:	1801	61057L	342.4 (V	/1)
County:	Cook	Route:	l- 57	M.P.:	342.4	Direc	tion: NB
Description of	Work					Unit	Quantity
Remove & Re	-erect Overhea	ad Sign St	tructure-S	Span		Each	1.00
Structural Stee	el Sign Suppor	t Overhea	d Sign S	tructure		Each	2.00
Furnish & Insta	all Internal Trus	s Damper	•			Each	1.00
Furnish & Insta	all Safety Chai	n				Each	2.00
Overhead Sig	n Structure Wa	alkway				Foot	112.50
Furnish & Insta	all Saddle Shir	n Block				Each	4.00
Furnish & Insta	all Metal Scree	n				Each	4.00
This work shall	be completed	during Dist	rict 1 nigh	ıt-time hou	ırs.		

Location No.:	1-07	State I.D	. No.:	1C01	61080R	154.3 (E	E2)
County:	Cook	Route:	I-80	M.P.:	154.3	Direc	tion: EB
Description of	Work			*************************		Unit	Quantity
Remove & Re	-erect Overhea	ad Sign S	tructure -	- Span		Each	1.00
	el Support Ove			ure		Each	2.00
Furnish & Insta	all Internal Trus	s Dampe	r			Each	1.00
Furnish & Insta	all Safety Chair	n				Each	2.00
Overhead Sig	n Support Gro	ut Repair				Each	4.00
	n Structure Wa					Foot	89.50
Furnish & Insta	all Saddle Shin	n Block				Each	4.00
Replace Anch	or Bolt					Each	3.00
This work shall	be completed of	during Dist	rict 1 nig	ht-time hou	rs.	***********	

Location No.:	1-08	State I.D	. No.:	18016	31094L	.000.0 (F	(2)		
County:	Cook	Route:	⊦ 94	M.P.:	0.0	Direc	tion: WB		
Description of	f Work					Unit	Quantity		
Remove & Re-erect Overhead Sign Structure - Span EACH 1.00									
Structural Steel Support Overhead Sign Structure EACH 2.00									
Furnish & Install Internal Truss Damper EACH 1.00									
Furnish & Inst	all Safety Chai	n				EACH	2.00		
Overhead Sig	n Support Gro	ut Repair				EACH	4.00		
	n Structure Wa					FOOT	60.00		
Furnish & Install Saddle Shim Block EACH 4.00									
This work shall	be completed	during Dis	trict 1 nigl	nt-time hou	rs.				

Location No.:	1-09	State I.D	. No.:	1S01	6I057L	_345.0 (T	3)	
County:	Cook	Route:	l-57	M.P.:	345.0) Direc	tion: SB	
Description of	Description of Work							
Remove & Re-erect Overhead Sign Structure - Span EAC								
Structural Ste	EACH	2.00						
Furnish & Inst	EACH	1.00						
Furnish & Inst	all Safety Cha	in				EACH	2.00	
Overhead Sig	n Structure W	alkway				FOOT	116.50	
Furnish & Inst	all Saddle Shi	m Block				EACH	4.00	
Furnish & Inst	all Metal Scree	en				EACH	4.00	
This work shall	be completed	during Dis	trict 1 nig	ht-time hou	ırs.			

Location No.:	1-10	State I.	D. No.:		1S01	610571	_344.6) (T	5)	
County:	Cook	Route:	I-57	7	M.P.:	344.6	Di	rec	tion:	SB
Description of	Description of Work Unit							t	Qua	antity
Remove & Re-erect Overhead Sign Structure - Span EACH 1.00									00	
Structural Steel Support Overhead Sign Structure EACH 2.00										
Furnish & Install Internal Truss Damper EACH 1.00									00	
Furnish & Inst	tall Safety Chai	n					EAC	Н	2.	00
Overhead Sig	gn Structure Wa	ılkway					FOC	T	128	3.50
Furnish & Inst	tall Saddle Shin	n Block					EAC	Н	4.	00
Furnish & Install Metal Screen EACH 4.00										00
This work shall	This work shall be completed during District 1 night-time hours.									

Various Routes D 1 OVD SIN STR REPL 2010-29 Various Counties Sheet 4 of 16 Contract Number 46092

District 1 Schedule of Overhead Sign Structure Repair & Replacement

Location No.:	1-11	State I.E). No.:	1S01	61057R	344.6 (L	J6)		
County:	Cook	Route:	⊦ 57	M.P.:	344.6	Direc	tion: NB		
Description of Work Unit									
Remove & Re-erect Overhead Sign Structure - Span EACH 1.00									
Structural Steel Support Overhead Sign Structure EACH 2.00									
Furnish & Install Internal Truss Damper EACH 1.00									
Furnish & Inst	all Safety Cha	in				EACH	2.00		
Overhead Sig	ın Structure W	alkway				FOOT	109.50		
Furnish & Inst	all Saddle Shi	m Block				EACH	4.00		
Furnish & Inst	all Metal Scree	en				EACH	4.00		
This work shal	This work shall be completed during District 1 night-time hours.								

Location No.:									
County:	Cook	Route:	l-57	M.P.:	345 Direction: N				
Description of \	Work					Unit	Quantity		
Remove & Re-erect Overhead Sign Structure - Span EACH 1.00									
Structural Steel	Support Ove	rhead Sig	n Struct	ure		EACH	2.00		
Furnish & Instal	Furnish & Install Internal Truss Damper								
Furnish & Instal	l Safety Chair	n				EACH	2.00		
Overhead Sign	Structure Wa	lkway				FOOT	106.50		
Furnish & Instal	l Saddle Shin	n Block				EACH	4.00		
Furnish & Instal	l Metal Scree	n .				EACH	4.00		
Replace Anchor Bolt						EACH	2.00		
This work shall b	oe completed o	during Dist	trict 1 nig	ht-time hou	rs.				

		,						
Location No.:	1-13	State I.D	. No.:	1S	<u>016l-80</u>	DR153.0		
County:	Cook	Route:	Route: I-80 M.P.: 153.0 Direction: E					
Description of Work							Quantity	
Remove & Re-erect Overhead Sign Structure - Span Each 1.00								
Structural Ste	el Support Ove	rhead Sig	n Struct	ure		Each	2.00	
Furnish & Install Internal Truss Damper							1.00	
Furnish & Inst	all Safety Chai	n				Each	2.00	
Overhead Sig	n Structure Wa	lkway				Foot	69.00	
Furnish & Inst	all Saddle Shir	n Block				Each	4.00	
Furnish & Install Metal Screen						Each	4.00	
This work shal	be completed	during Dist	trict 1 nig	ht-time hou	rs.			

Location No.:	1-14	State I.	D. No					0
County: [Du Page	Route:		*	M.P.:	6	Direc	tion: EB
Description of	Work			************	~~~	· · · · · · · · · · · · · · · · · · ·	Unit	Quantity
FURNISH & IN	STALL HAND	DRAIL					FOOT	24.50
* Elgin - O'Har	e Expressway	/	····					
This work shall	be completed	during D	istrict	1 night-	time ho	ours.		<u> </u>

Location No.:	Location No.: 1-15 State I.D. No.: 1C022S						4
County:	Du Page	Route:	*	M.P.:	6.4	Direc	tion:
Description o	f Work					Unit	Quantity
FURNISH & I	NSTALL HAN	DRAIL				FOOT	24.00
* Elgin - O'Ha	re Expresswa	у		**********			
This work sha	l be completed	during Dist	rict 1 night	-time hou	rs.		

Location No.:	1-16	State I.D	. No.:	1C0	22S0	00R006.6	3
County:	Du Page	Route:	*	M.P.:	6.6	Direc	tion: EB
Description o	f Work					Unit	Quantity
FURNISH & I	NSTALL HAND	PRAIL				FOOT	24.00
* Elgin - O'Ha	re Expressway	·					
				~~~~			
This work shal	l be completed	during Dis	trict 1 nigh	t-time hou	rs.		

Location No.								
County:	Du Page	Route:	*	M.P.:	6.8	Dir	ectio	n: EB
Description of	of Work					Unit	i Q	uantity
FURNISH &	INSTALL HAI	NDRAIL				FOO	T	16.00
* Elgin - O'Ha	are Expressw	ay						
<u></u>								
This work sha	il be complete	a auring Dis	strict 1 nig	gnt-time ho	ours.			

Location No.:	1-18	State I.D. No.:	State I.D. No.: 1C016S000R008.2				
County:	Cook	Route: *	M.P.:	8.2	Direc	tion: EB	
Description of	Work				Unit	Quantity	
FURNISH & IN	ISTALL HAI	NDRAIL			FOOT	17.00	
* Elgin - O'Har	e Expressw	ay					
This work shall	be complete	d during District 1	night-time hou	rs.			

Location No.:	1-19	State I.D. N	State I.D. No.: 1C016S			00R008.	7
County:	Cook	Route:	Route: * M.P.: 8.7 Directio				tion: EB
Description of	f Work					Unit	Quantity
FURNISH & IN	ISTALL HA	NDRAIL				FOOT	23.00
				***************************************			
* Elgin - O'Hai	re Expressw	ay					
This work shall	be complete	d during Distric	ct 1 nig	ht-time hou	s.		

Location No.:	1-20	State I.D.	No.:	1S0	1650	00R009.1	
County:	Cook	Route:	*	M.P.:	9.1	Direc	tion: EB
Description of	Work	***************************************	***************************************			Unit	Quantity
FURNISH & IN	ISTALL HANI	DRAIL				FOOT	50.00
			********************				
* Elgin - O'Hai	re Expresswa	<u> </u>	***********	······································			
	*****			****			
This work shall	be completed	during Dist	rict 1 night	t-time hou	rs.		

Location No.:	1-21	State I.D	. No.:	1C0	1650	00R009.9	9
County:	Cook	Route:	*	M.P.:	9.9	Direc	tion: EB
Description of	Work	***************************************	······			Unit	Quantity
FURNISH & IN	ISTALL HAI	NDRAIL				FOOT	24.00
* Elgin - O'Har	e Expressw	ay					
This work shall	be complete	d during Dis	trict 1 nig	ht-time hou	rs.		

Location No	o.: 1 <b>-</b> 22	State I.D.	No.:	1C01	6500	0R010.4	4
County:	Cook	Route:	*	M.P.:	10.4	Direc	tion: EB
Description	of Work					Unit	Quantity
FURNISH 8	INSTALL HAI	NDRAIL				FOOT	24.00
* Elgin - O'h	lare Expressw	ay					
This work sh	all be complete	d during Distr	ict 1 ni	ght-time hour	<u>s.  </u>		

Location No.:	1-23	State I.D	). No.:	180	22500	00R010.9	9
County: Du F	age '	Route:	*	M.P.:	10.9	Direc	tion: EB
Description of Wo	rk					Unit	Quantity
FURNISH & INSTA	ALL HAN	DRAIL				FOOT	50.00
				÷			
* Elgin - O'Hare Ex	presswa	У				and the first distance and	
			~~~~			****	
This work shall be o	ompleted	during Dis	strict 1 nig	ht-time hou	ırs.		

Various Routes D 1 OVD SIN STR REPL 2010-29 Various Counties Sheet 5 of 16 Contract Number 46092

District 1 Schedule of Overhead Sign Structure Repair & Replacement

County:	Du Page	Route: *	M.P.:	11.5	Dire	ction: EB
Description					Unit	Quantity
FURNISH 8	k INSTALL HA	NDRAIL	***********************		FOOT	46.00

* []_:_ O!!	I F					
Eigin - Or	lare Expressw	/ay	· · · · · · · · · · · · · · · · · · ·			
This work sh	all be complete	ed during District 1 n	ight-time hou	ırs		-
					000011	0
Location No County:		State I.D. No.: Route: *	M.P.:	11.8	00R011.	o ction: EB
Description		[Noute.]	[] [] [] [] [] []	11.0	Unit	Quantity
	INSTALL HA	NDRAII	**************************************		FOOT	
TORNOTTO	CINOTALLTIA	INDIVAL			1001	22.00
* Elgin - O'h	dare Expressw	<i>r</i> ay	***************************************		***************************************	†
This work sh	nall be complete	ed during District 1 n	ght-time hou	ırs.		
Location No	o.: 1-26	State I.D. No.:	1C0	22500	0L011.9	9
County:	Du Page	Route: *	M.P.:	11.9	Direc	tion: WB
Description					Unit	Quantity
	of Work				Unit	
FURNISH 8	of Work & INSTALL HA	NDRAIL			Unit	
FURNISH 8	of Work	NDRAIL			Unit	
* Elgin - O'l	of Work k INSTALL HA Hare Expressw	NDRAIL /ay			Unit	
* Elgin - O'h	of Work k INSTALL HA Hare Expressw hall be complete	NDRAIL vay ed during District 1 n	ght-time hou	ırs.	Unit FOOT	22.50
* Elgin - O'h This work sh	n of Work k INSTALL HA Hare Expressw hall be complete	NDRAIL /ay ed during District 1 ni State I.D. No.:	ght-time hou	ırs	Unit FOOT	22.50
* Elgin - O'h This work sh Location No	of Work k INSTALL HA Hare Expressw hall be complete b.: 1-27 Du Page	NDRAIL vay ed during District 1 n	ght-time hou	ırs.	Unit FOOT 0L011.8	22.50 25.50 25.50 26.50 26.50 26.50 26.50 26.50 26.50 26.50 26.50
* Elgin - O'h This work sh Location No County: Description	of Work k INSTALL HA Hare Expressw hall be complete 1-27 Du Page of Work	NDRAIL /ay ed during District 1 n State I.D. No.: Route: *	ght-time hou	ırs	Unit FOOT 0L011.8 Direc Unit	22.50 tion: WB Quantity
* Elgin - O'h This work sh Location No County: Description	of Work k INSTALL HA Hare Expressw hall be complete b.: 1-27 Du Page	NDRAIL /ay ed during District 1 n State I.D. No.: Route: *	ght-time hou	ırs	Unit FOOT 0L011.8	22.50 25.50 25.50 26.50 26.50 26.50 26.50 26.50 26.50 26.50 26.50
* Elgin - O'h This work sh Location No County: Description	of Work k INSTALL HA Hare Expressw hall be complete 1-27 Du Page of Work	NDRAIL /ay ed during District 1 n State I.D. No.: Route: *	ght-time hou	ırs	Unit FOOT 0L011.8 Direc Unit	22.50 tion: WB Quantity
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* Elgin - O'h This work sh Location No County: Description FURNISH &	of Work k INSTALL HA Hare Expressw hall be complete 1-27 Du Page of Work	NDRAIL yay ed during District 1 n State I.D. No.: Route: *	ght-time hou	ırs	Unit FOOT 0L011.8 Direc Unit	22.50 tion: WB Quantity
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* Elgin - O'h This work sh Location No County: Description FURNISH & * Elgin - O'H	n of Work k INSTALL HA Hare Expressw hall be complete Du Page of Work INSTALL HAN lare Expresswa	NDRAIL yay ed during District 1 ni State I.D. No.: Route: * NDRAIL ay d during District 1 ni	ght-time hou 1S0 M.P.:	irs. 22S00 11.8	Unit FOOT 0L011.8 Direc Unit FOOT	22.50 stion: WB Quantity 64.00
* Elgin - O'h This work sh Location No County: Description FURNISH & * Elgin - O'H This work sh Location No	n of Work R INSTALL HA Hare Expressw hall be complete I 1-27 Du Page of Work INSTALL HAN hare Expresswa all be complete I 1-28	NDRAIL //ay ed during District 1 ni State I.D. No.: Route: * NDRAIL ay d during District 1 ni State I.D. No.:	ght-time hou 1S0 M.P.:	22S00 11.8 rs.	Unit FOOT 0L011.8 Direc Unit FOOT	22.50 Stion: WB Quantity 64.00
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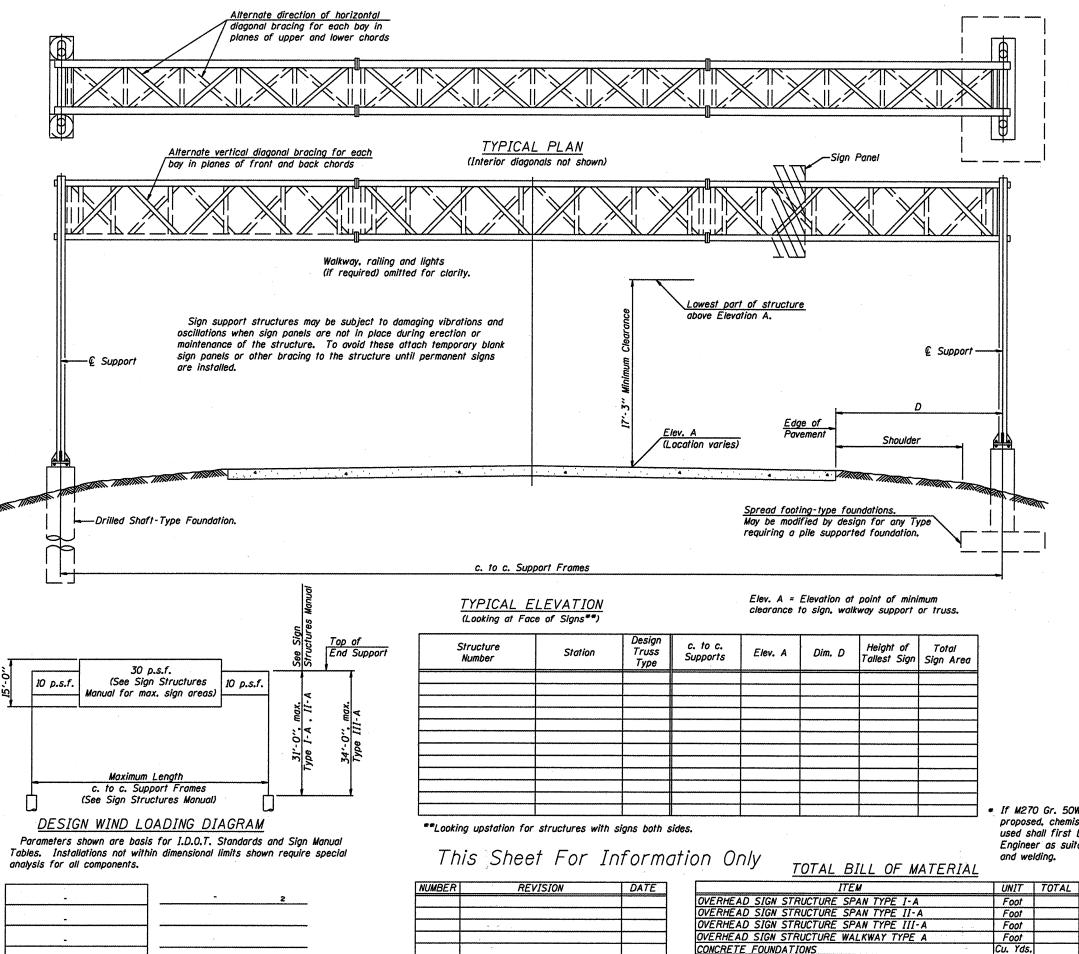
Location No.: 1-29	State I.D. No.:)22S0	00L011.	
County: Du Page	Route: *	M.P.:	11.3	Dire	ction: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HANI	DRAIL.	~~~		FOOT	50.50
ter out e					
* Elgin - O'Hare Expresswa	У				
This work shall be completed	during District 1 nig	ght-time hou	ırs.		
Location No.: 1-30	State I.D. No.:	1C0	16S0	00L010.	7
County: Cook	Route: *	M.P.:	10.7	Direc	ction: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HANI	DRAIL			FOOT	18.50
* Elgin - O'Hare Expresswa	У				
This work shall be completed	during District 1 nig	int-time hou	ırs.		<u> </u>
Location No.: 1-31	State I.D. No.:	150	1650	00L009.	7
County: Cook	Route: *	M.P.:	9.7	Direc	tion: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HANI	DRAIL			FOOT	50.00
tel . Oll E	***************************************				
* Elgin - O'Hare Expressway				***************************************	
This work shall be completed	during District 1 pig	ht time hou	re		
	during District 1 ring	nit-time nou	15.		
ocation No.: 1-32	State I.D. No.:			<u> 00L009.</u>	
County: Cook	Route: *	M.P.:	9.1		tion: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HAND	JKAIL			FOOT	22.00
					-
Elgin - O'Hare Expressway	/				
Ligiti - O Fidie Lapiessway					
his work shall be completed	during District 1 nigl	ht-time hou	rs.		

ocation No.: 1-33	State I.D. No.:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		0L010.2	
County: Cook	Route: *	M.P.:	10.2		tion: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HAND)RAIL			FOOT	18.50
· -					
The Oller C	-				
Elgin - O'Hare Expressway					
This was abolt he considered	dunia - Diatriat dunial	at 4:00 a la			

This work shall be completed during District 1 night-time hours.

Location No.: 1-34	State I.D. No.:	150	16S0	00L008.2	
County: Cook	Route: *	M.P.:	8.2	Direc	tion: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HAI	NDRAIL			FOOT	40.50
* Elgin - O'Hare Expressw	ay				
This work shall be complete	d during District 1 pig	ht time hou	ro		
This work shall be complete	d during District 1 mg	ricume nou	15.		L
Location No.: 1-35	State I.D. No.:		16S0	00L008.6	3
County: Cook	Route: *	M.P.:	8.6	Direc	tion: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HAI	NDRAIL			FOOT	49.50
* Elgin - O'Hare Expressw	ay	***			
T'-:	J. J. J. J. District 4 sis	J. 4 4			
This work shall be complete	a during district i nig	nt-time not	irs.	<u> </u>	
Location No.: 1-36	State I.D. No.:	180	1680	00L007.8	
County: Cook	Route: *	M.P.:	7.8	Direc	tion: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HA	NDRAIL			FOOT	47.00
* El-:- 0111 E					
* Elgin - O'Hare Expressw	<i>r</i> ay				
This work shall be complete	ed during District 1 nig	ht-time hou	rs.		
Location No.: 1-37	State I.D. No.:	150	1650	00L007.4	1
County: Cook	Route: *	M.P.:	7.4		tion: WB
Description of Work				Unit	Quantity
FURNISH & INSTALL HA	NDRAIL			FOOT	50.00
				-	
* Elgin - O'Hare Expressw					
This work shall be complete					
Location No.: 1-38	State I.D. No.:			00L006.6	
County: Du Page	Route: *	M.P.:	6.6		tion: WB
Description of Work	A ID D A II			Unit	Quantity
FURNISH & INSTALL HA	NDRAIL			FOOT	23.00
* Elgin - O'Hare Expressw					
This work shall be complete		ht-time hou	rs.		
Location No.: 1-39	State I.D. No.:			00L006.3	
County: Du Page	Route: *	M.P.:	6.3		tion: WB
Description of Work	ALD DAIL			Unit	Quantity
FURNISH & INSTALL HAI	NDKAIL			FOOT	56.00
* Elgin - O'Hare Expressw	av				
	d during District 1 nig			·	

This work shall be completed during District 1 night-time hours.



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5/16/08

Various Routes
D 1 OVD SIN STR REPL 2010-29
Various Counties
Sheet 6 of 16
Contract Number 46092

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

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES: Field Units f'a = 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 Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. 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 MI64 (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 or 55 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.

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.

Cu. Yds.

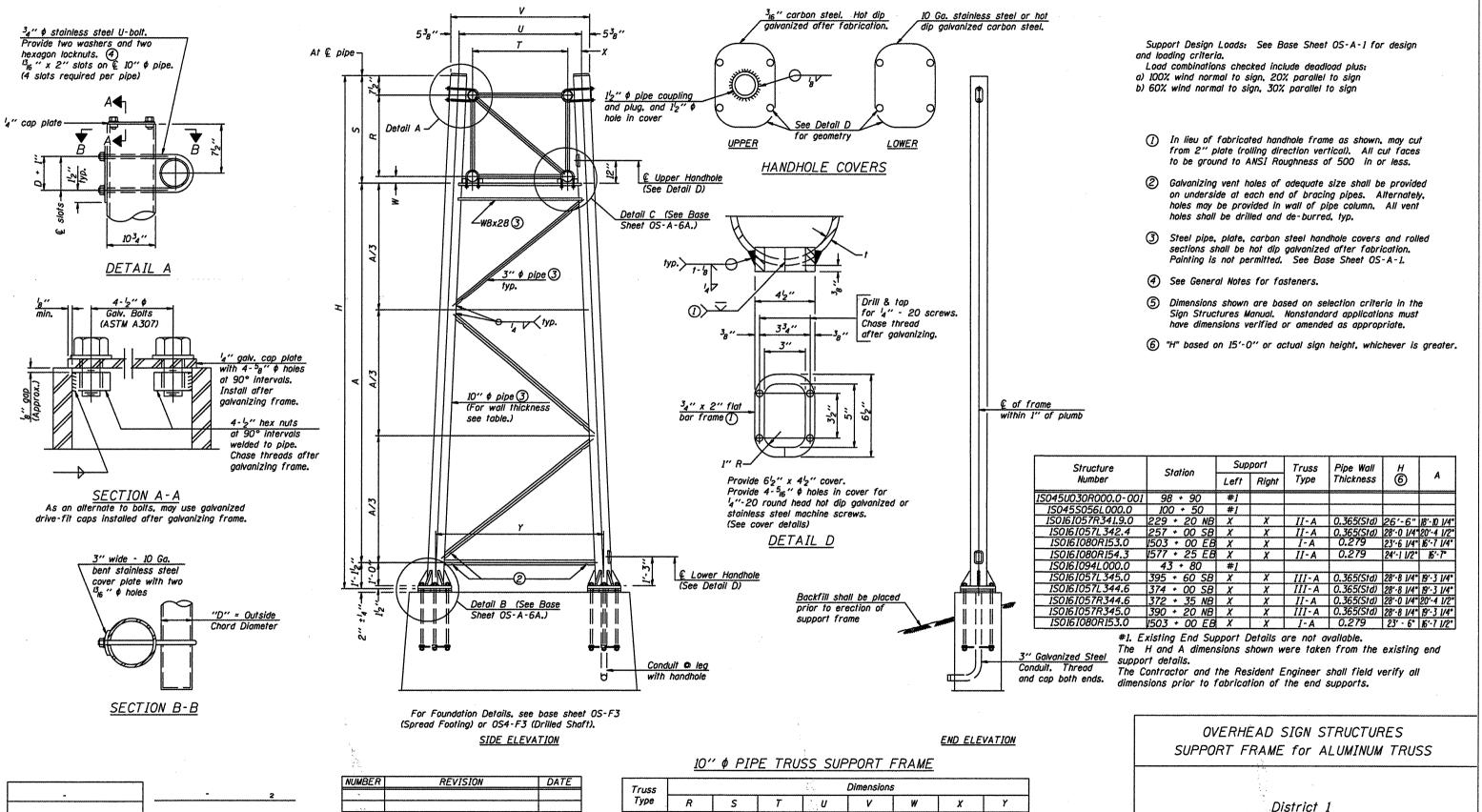
DRILLED SHAFT CONCRETE FOUNDATIONS

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

Various Routes D 1 OVD SIN STR REPL 2010-29 Various Counties Sheet 7 of 16 Contract Number 46092

Sign Structure

Repair and Replacement



4'-6" 5'-5'2" 4'-0"

II-A 5 5'-3" 6'-34" 4'-6"

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5'-6"

6'-1"

6'-434"

6'-1134"

4"

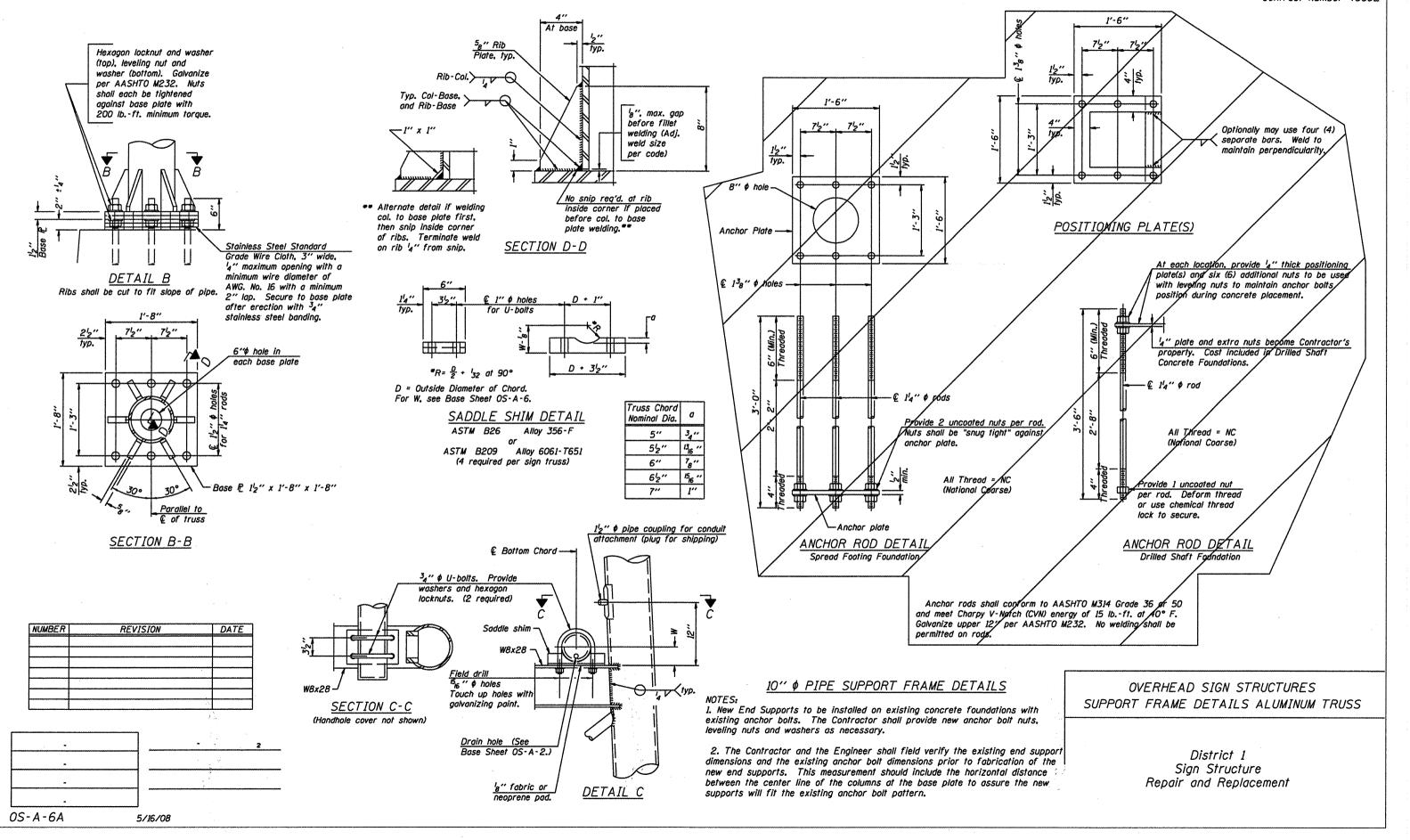
434"

92"

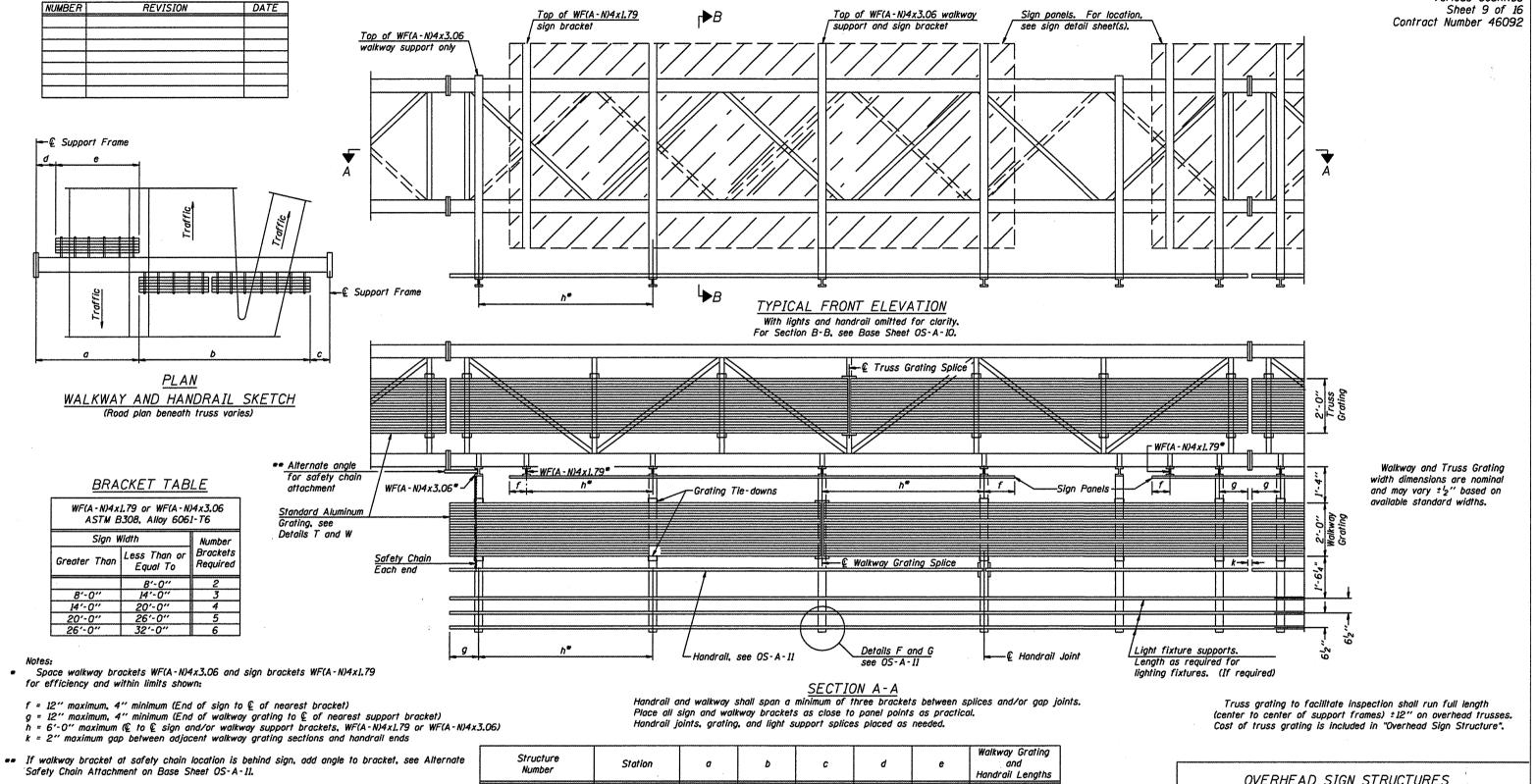
8'-3"

8'-3"

Various Routes D 1 OVD SIN STR REPL 2010-29 Various Counties Sheet 8 of 16 Contract Number 46092



Various Routes D 1 OVD SIN STR REPL 2010-29 Various Counties

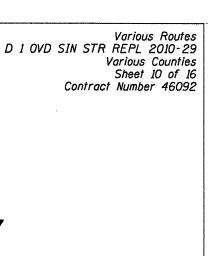


For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10. For Handrail Details see Base Sheet OS-A-11.

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-	
DS-A-9	5/16/08

Structure Number	Station	a .	b	С	đ	е	Walkway Grating and Handrail Lengths
1S045U030R000.0-001	98 + 90	N/A	N/A	N/A	N/A	N/A	70′ - 0"
1S045S056L000.0	100 + 50	N/A	N/A	N/A	N/A	N/A	67' - 0"
1S0161057R341.9.0	229 + 20 NB	N/A	N/A	N/A	N/A	N/A	111' - 6"
150161057L342.4	257 + 00 SB	N/A	N/A	N/A	N/A	N/A	112' - 6"
<i>1S0161080R153.0</i>	1503 + 00 EB	N/A	N/A	N/A	N/A	N/A	69' - 6"
<i>1S0161080R154.3</i>	1577 + 25 EB	N/A	N/A	N/A	N/A	N/A	89' - 6"
<i>150161094L000.0</i>	43 + 80	N/A	N/A	N/A	N/A	N/A	60' - 0"
1S0161057L345.0	395 + 60 SB	N/A	N/A	N/A	N/A	N/A	116" - 6"
1S0161057L344.6	374 + 00 SB	N/A	N/A	N/A	N/A	N/A	128' - 6"
1S0161057R344.6	372 + 35 NB	N/A	N/A	N/A	N/A	N/A	109′ - 6"
<i>1S0161057R345.0</i>	390 + 20 NB	N/A	N/A	N/A	N/A	N/A	106' - 6"
IS0161080R153.0	1503 + 00 EB	N/A	N/A	N/A	N/A	N/A	69' - 0"

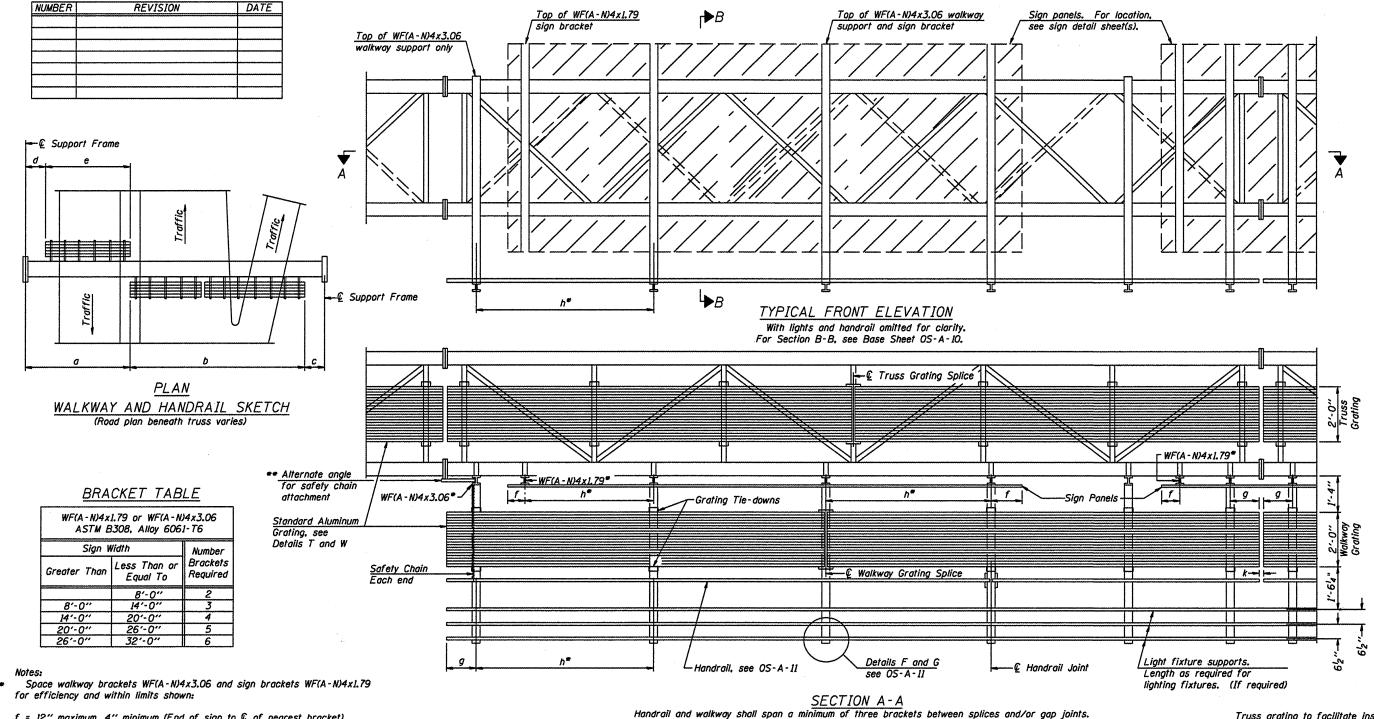
OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS



Walkway and Truss Grating

width dimensions are nominal

and may vary ±12" based on available standard widths.



- 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.

			
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OS-A-9	 5/16/08		

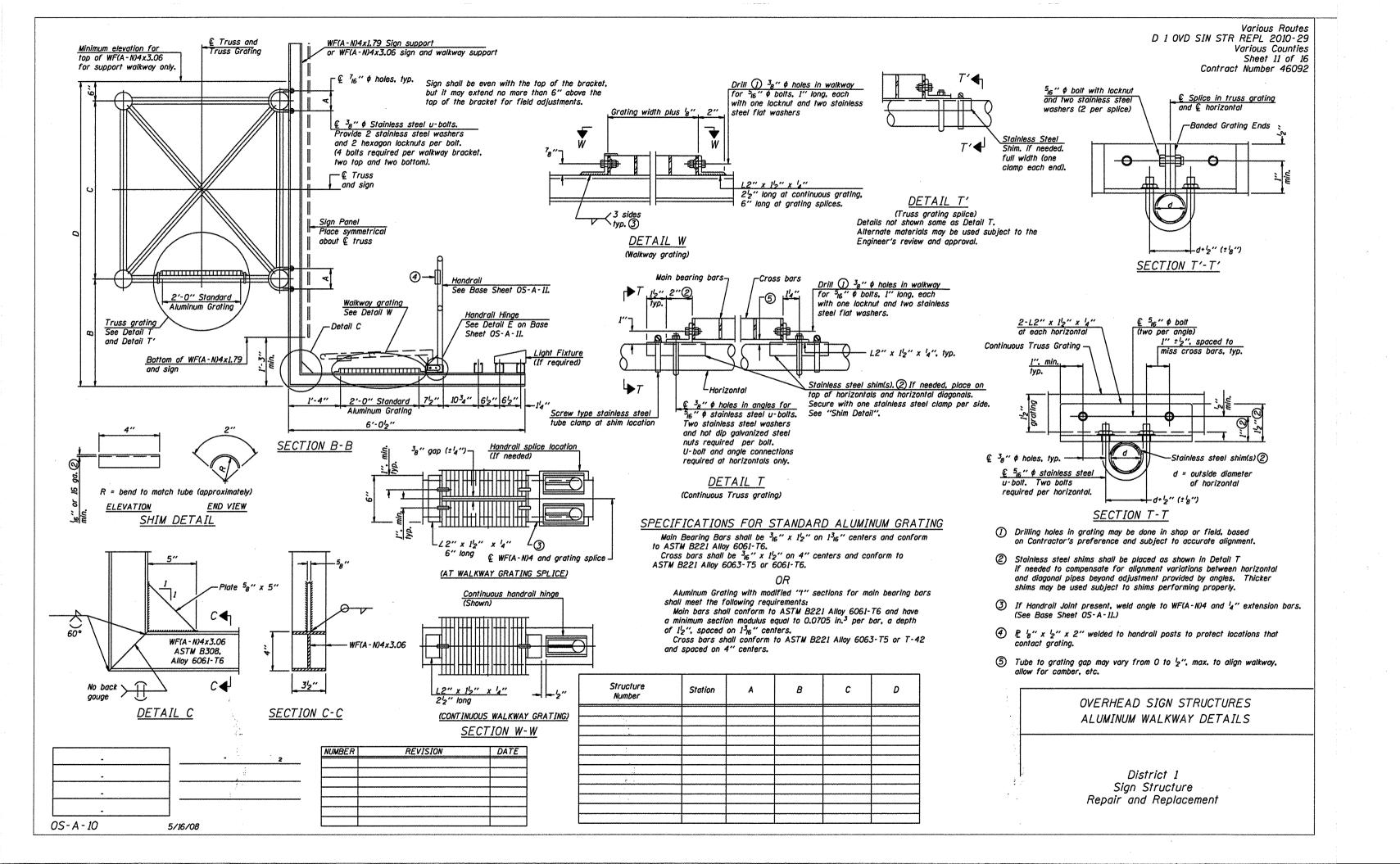
Structure Number	Station	σ	b	c	d	e	Walkway Grating and Handrail Lengths
1S022S000R006.8	N/A	N/A	N/A	N/A	N/A	N/A	46' - 0"
1S016S000R009.1	N/A	N/A	N/A	N/A	N/A	N/A	50' - 0"
1S022S000R010.9	N/A	N/A	N/A	N/A	N/A	N/A	50' - 0"
1S022S000R011.5	N/A	N/A	N/A	N/A	N/A	N/A	46' - 0"
1S022S000L011.8	N/A	N/A	N/A	N/A	N/A	N/A	64' - 0"
150225000L011.3	N/A	N/A	N/A	N/A	N/A	N/A	50' - 6"
1S016S000L009.7	N/A	N/A	. N/A	N/A	· N/A	N/A	50' - 0"
1S016S000L008.2	N/A	N/A	N/A	N/A	N/A	N/A	40' - 6"
1S016S000L008.6	N/A	N/A	N/A	N/A	N/A	N/A	49' - 6"
1S016S000L007.8	N/A	N/A	N/A	N/A	N/A	N/A	47' - 0"
1S016S000L007.4	N/A	N/A	N/A	N/A	N/A	N/A	50' - 0"
1S022S000L006.3	N/A	N/A	N/A	N/A	N/A	N/A	56' - 0"

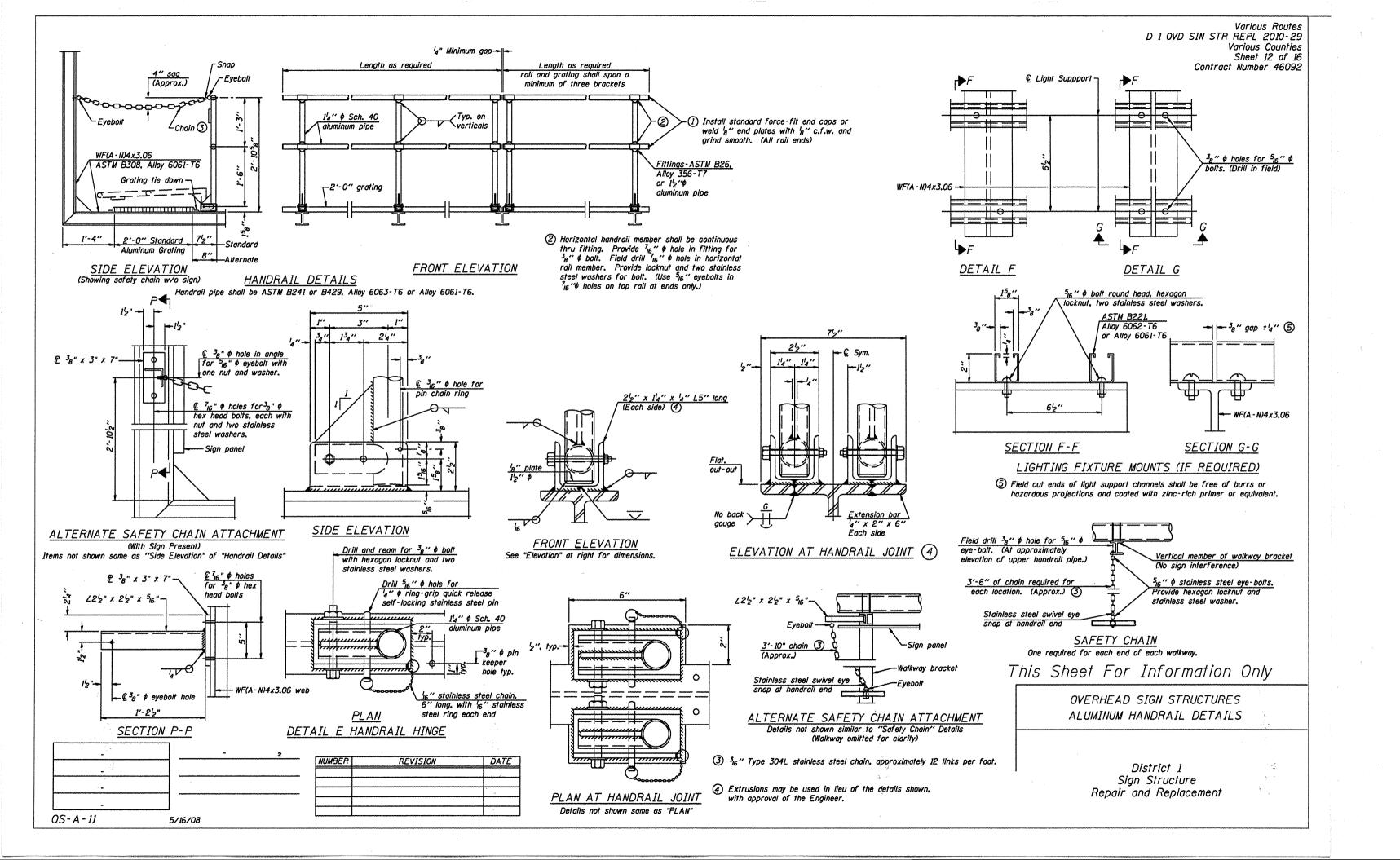
Place all sign and walkway brackets as close to panel points as practical.

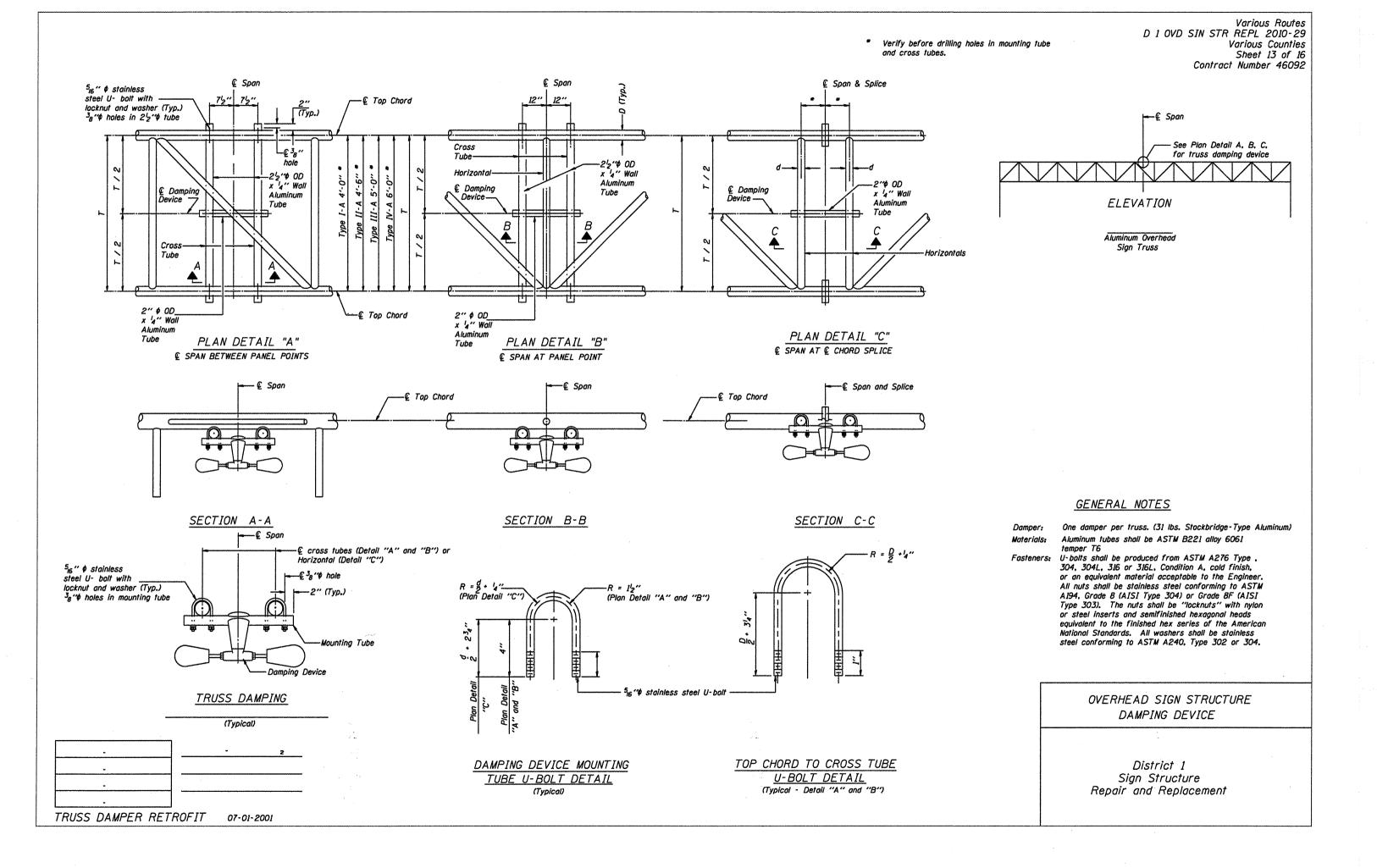
Handrail joints, grating, and light support splices placed as needed.

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".

> OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS







Various Routes D 1 OVD SIN STR REPL 2010-29 Various Counties Sheet 14 of 16 Contract Number 46092

WGL

Walkway and truss grating dimensions are nominal and may vary (width ±12". depth ±12") based on available standard

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

Structure Number	Station	WGL	ED	TGL
IC022S000R006.0	N/A	24' - 6"	N/A	N/A
IC0225000R006.4	N/A	24' - 0"	N/A	N/A
IC0225000R006.6	N/A	24' - 0"	N/A	N/A
1C016S000R008.2	N/A	17' - 0"	N/A	N/A
1C016S000R008.7	N/A	23' - 0"	N/A	N/A
1C016S000R009.9	N/A	24' - 0"	N/A	N/A
1C016S000R010.	N/A	24' - 0"	N/A	N/A
1C022S000R011.8	N/A	22' - 6"	N/A	N/A
1C022S000L011.9	N/A	22' - 6"	N/A	N/A
1C022S000L011.6	N/A	18' - 3"	N/A	N/A
1C016S000L010.7	N/A	18' - 6"	N/A	N/A
1C016S000L009.1	N/A	22' - 0"	N/A	N/A
1C016S000L010.2	N/A	18' - 6"	N/A	N/A
IC022S000L006.6	N/A	23' - 0"	N/A	N/A

* Length shown is for the existing handrail to be replaced.

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)

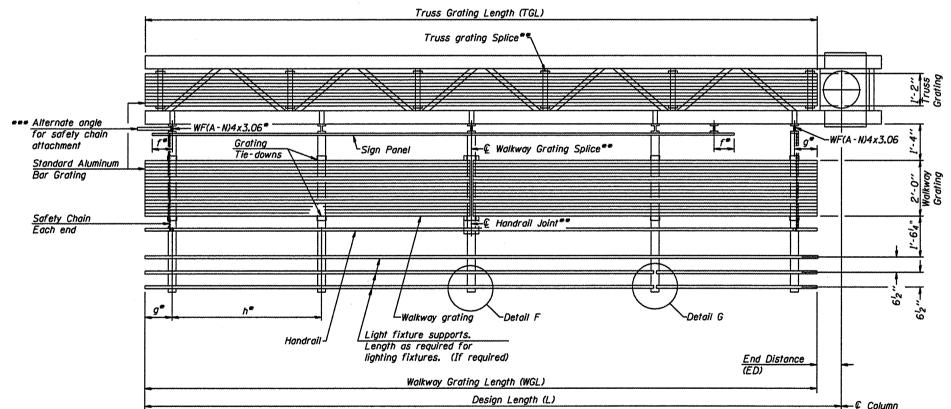
g = 12'' maximum, 4'' minimum (End of walkway to Q of nearest bracket) h = 6'-0'' maximum (Q to Q sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** 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.

Top of WF(A-N)4x3.06 walkway Top of WF(A-N)4x1.79
(Sign Support Only) support and sign bracket Top of WF(A-N)4x3.06 (Walkway Support Only) TYPICAL FRONT ELEVATION With lights and handrail omitted for clarity. Truss Grating Length (TGL)



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

5/16/08

0SC-A-6

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.

 $TGL = L - (\frac{Post \ O.D.}{2} + 6")$

NUMBER	REVISION	DATE
		1

BRACKET TABLE

	.79 or WF(A-N): 308. Alloy 6061				
Sign V		Number Brackets			
Greater Than	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			

CANTILEVER SIGN STRUCTURES ALUMINUM WALKWAY DETAILS ALUMINUM TRUSS & STEEL POST

