

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR D-3 OVD SIN STR REPL 2011-08		ILLINOIS	25	1
CONTRACT NO. 46131				

INDEX OF SHEETS

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2. GENERAL NOTES
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6. SCHEDULES
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- 15 - 23. OVERHEAD SIGN TRUSS - CANTILEVER
- 24 - 25. SOIL BORING LOGS

STANDARDS

- | | |
|-----------|-------------------------------------------------------------------------------|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 701101-02 | OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY |
| 701411-06 | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH |
| 701901-01 | TRAFFIC CONTROL DEVICES |

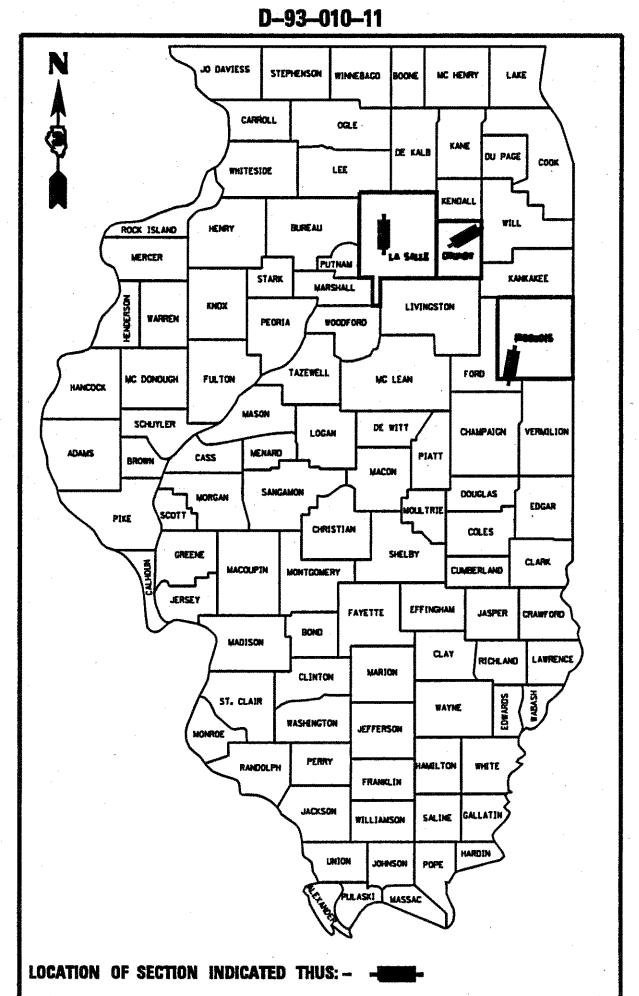
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PROPOSED
HIGHWAY PLANS**

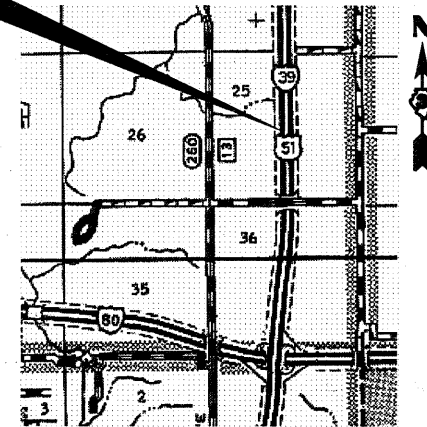
**VARIOUS ROUTES
SECTION D-3 OVD SIN STR REPL 2011-08**

**OVERHEAD SIGN STRUCTURE REHABILITATION OR REPLACEMENT
LASALLE, GRUNDY, IROQUOIS COUNTIES**

C-60-008-11

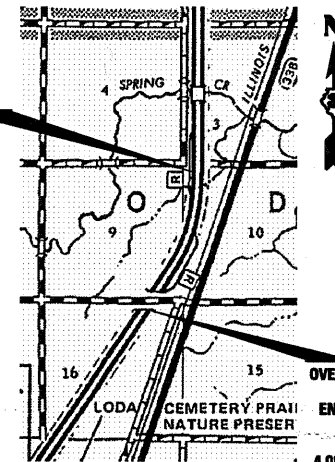


LOCATION 1 - FAI ROUTE 39
OVERHEAD SIGN STRUCTURE
S.N. #3S05010391061.2
(STA. 1158+78 SBL)
1.5 MI. NORTH OF I-80 INTERCHANGE



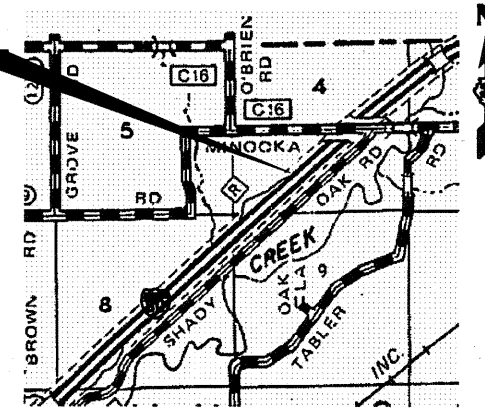
LASALLE COUNTY

LOCATION 5 - FAI ROUTE 57
OVERHEAD SIGN STRUCTURE - CANTILEVER
S.N. #3C03810571269.3
ENTRANCE TO SB MAINLINE REST AREA
(EXISTING STA. 1374+70 SBL)
(PROPOSED STA. 1374+50 SBL)
2.78 MI SOUTH OF BUCKLEY INTERCHANGE



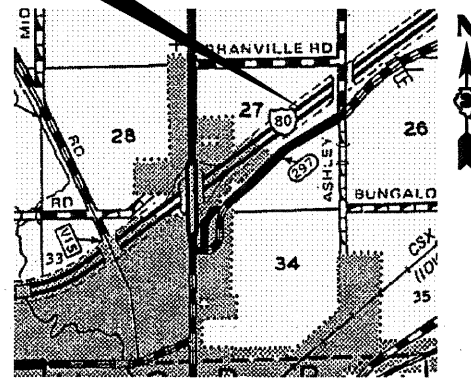
IROQUOIS COUNTY

LOCATION 4 - FAI ROUTE 57
OVERHEAD SIGN STRUCTURE - CANTILEVER
S.N. #3C038057268.0
ENTRANCE TO NB MAINLINE REST AREA
(EXISTING STA. 1442+75 NBL)
(PROPOSED STA. 1442+55 NBL)
4.08 MI SOUTH OF BUCKLEY INTERCHANGE



GRUNDY COUNTY

LOCATION 2 - FAI ROUTE 80
OVERHEAD SIGN STRUCTURE
S.N. #3S03210801112.2
(STA. 1217+88 WB I)
0.08 MI. NORTHEAST OF IL RTE. 47



GRUNDY COUNTY

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

**PROJECT ENGINEER: JOE KANNEL
UNIT CHIEF: RON WOODSHANK
TOWNSHIP: VARIOUS**

CONTRACT NO. 46131

FUNCTIONAL CLASSIFICATION

RURAL - INTERSTATE		
FAI ROUTE 39	FAI ROUTE 80	FAI ROUTE 57
2009 ADT = 18200	2009 ADT = 38500	2009 ADT = 15400
P.V. = 68.13%	P.V. = 75.71%	P.V. = 74.68%
M.U. = 26.92%	M.U. = 18.18%	M.U. = 19.48%
S.U. = 4.95%	S.U. = 6.10%	S.U. = 5.84%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Aug. 3 2010
PASSED [Signature] ENGINEER OF OPERATIONS

ENGINEER OF DESIGN AND ENVIRONMENT

APPROVED _____ 20 _____
DIRECTOR DIVISION OF HIGHWAYS

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED BASED UPON THE UNIT BID PRICE FOR THE WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

THE COST OF ANY SAW CUTS MADE TO COMPLETE THE WORK AS DESCRIBED IN PLAN DETAILS, UNLESS OTHERWISE NOTED SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE VARIOUS PAY REMOVAL PAY ITEMS INVOLVED.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.

NEW REINFORCEMENT BARS SHALL BE EPOXY COATED.

ALL STRUCTURAL STEEL SHALL BE AASHTO M 270 GRADE 50 (EXCEPT EXPANSION JOINTS WHICH SHALL BE AASHTO M270 GRADE 36.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 503.10(c) OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50°.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

FILE NAME *	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED - ----
ci:\pw_work\p1e1dot\woodshankr1\d0235124\6131-Detals.dgn		DRAWN - RON WOODSHANK	REVISED - ----
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - ----	REVISED - ----
	PLOT DATE = Sep 23, 2010 - 09:29:10 AM	DATE - ----	REVISED - ----

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-3 OVD SIN STR REPL 2011-08	VAR	25	2
			CONTRACT NO. 46131	
SCALE: _____	SHEET NO. 1 OF 1 SHEETS		STA. _____ TO STA. _____	
ILLINOIS				

SUMMARY OF QUANTITIES

CONSTRUCTION CODE TYPE: 0040

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL - 100% STATE		
				LASALLE COUNTY	GRUNDY COUNTY	IROQUOIS COUNTY
67100100	MOBILIZATION	L SUM	1	0.2	0.4	0.4
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	3		1	2
73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	211	108	103	
73302170	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" X 5'-6")	FOOT	90		30	60
73305000	OVERHEAD SIGN STRUCTURE WALKWAY	FOOT	17			17
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	19		6.8	12.2
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	2	1	1	
73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	3		1	2
73600300	REMOVE OVERHEAD SIGN STRUCTURE - WALKWAY	FOOT	17			17
73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	3		1	2
73800200	STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	3		1	2
T9990710	REMOVE AND REINSTALL WALKWAY	FOOT	119	32	70	17
T9992530	REPLACE ^{AND} TIGHTEN ^{SIGN MOUNTING} CLIPS PER SIGN	EACH	18	2	8	8
T9992700	REMOVE AND REINSTALL SIGN PANEL	SQ FT	927	302	469	156
T9995200	REPLACE U-BOLT	EACH	2	2		
T9997700	FURNISH AND INSTALL SAFETY CHAIN	EACH	8	2	2	4
T9998815	REPAIR HANDRAIL LOCKING PIN CONNECTION	EACH	13	5	4	4
T9998820	FURNISH ^{AND} INSTALL HANDRAIL	FOOT	17			17
T9998995	DISCONNECT ^{AND} RECONNECT ELECTRIC SERVICE	EACH	5	1	2	2
X0324397	RELOCATE ELECTRIC SERVICE	EACH	3		1	2
Z0026346	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	0.2	0.4	0.4
X7010805	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401 (SPECIAL)	L SUM	1	0.2	0.4	0.4

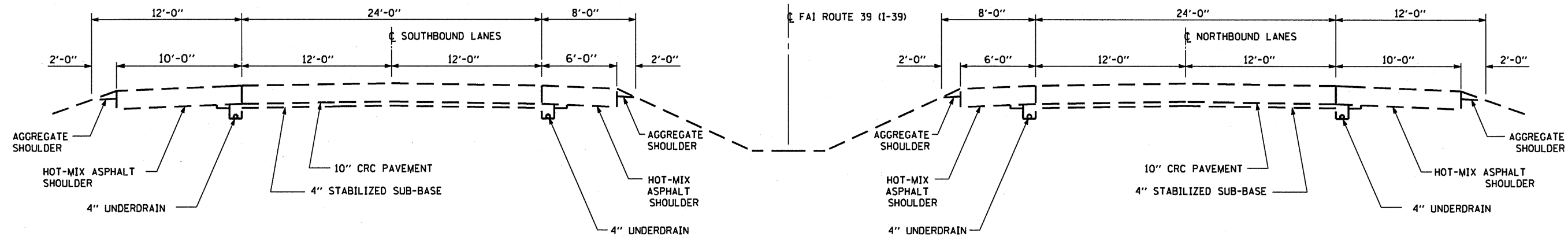
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	PLOT SCALE * 108.0000' / IN.	DRAWN - RON WOODSHANK	REVISED - -----
	PLOT DATE * Jul 30, 2010 - 11:44:29 AM	CHECKED - ---	REVISED - -----
		DATE - -----	REVISED - -----

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

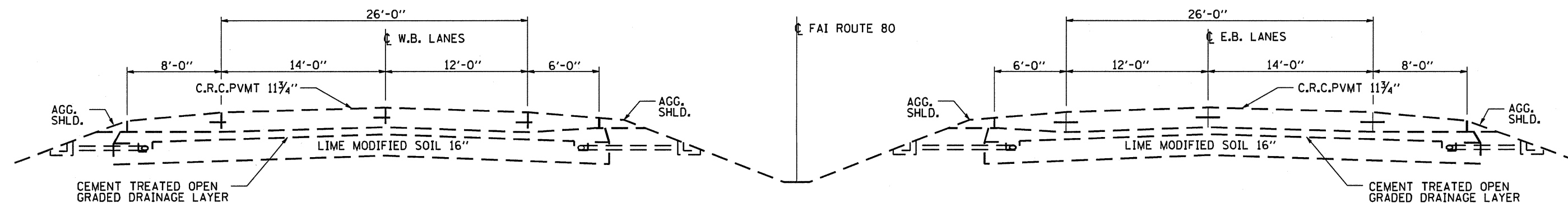
SUMMARY OF QUANTITIES

SCALE: _____ SHEET NO. 1 OF 1 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	D-3 OVD SIN STR REPL 2011-08	VAR	25	3
			CONTRACT NO. 46131	
[ILLINOIS]				

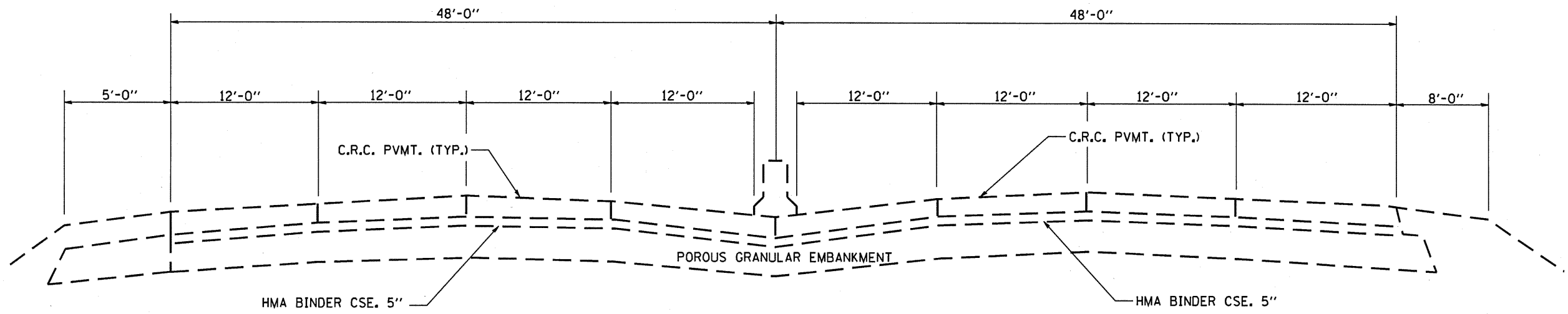


TYPICAL SECTION
LASALLE COUNTY - FAI ROUTE 39
LOCATION 1

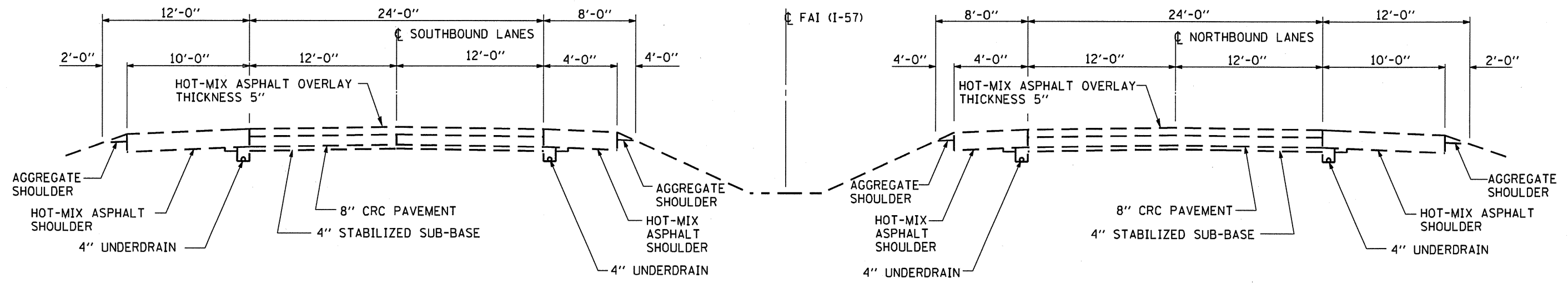


TYPICAL SECTION
GRUNDY COUNTY - FAI ROUTE 80
LOCATION 2

FILE NAME *	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwwork\pwwork\woodshankr1\d0235124\6131-Detail.dgn	PLOT SCALE = 1/8" = 100'-0"	DRAWN - RON WOODSHANK	REVISED -			VAR	D-3 OVD SIN STR REPL 2011-08	VAR	25	4	
	PLOT DATE = Sep 23, 2010 - 8:29:44 AM	CHECKED -	REVISED -			CONTRACT NO. 46131					
		DATE -	REVISED -			SCALE: _____	SHEET NO. 1 OF 2 SHEETS	STA. _____ TO STA. _____	ILLINOIS		



TYPICAL SECTION
GRUNDY COUNTY - FAI ROUTE 80
LOCATION 3



TYPICAL SECTION
IROQUOIS COUNTY - FAI ROUTE 57
LOCATION 4 AND 5

FILE NAME *	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\p1dot\woodshankr1\d0235124\6131-Detail.sldgn	DRAWN - RON WOODSHANK	REVISED -	VAR			D-3 OVD SIN STR REPL 2011-08	VAR	25	5	
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	CONTRACT NO. 46131							
PLOT DATE = Sep 23, 2010 - 8:30:00 AM	DATE -	REVISED -	ILLINOIS							
					SCALE: _____	SHEET NO. 2 OF 2 SHEETS		STA. _____ TO STA. _____		

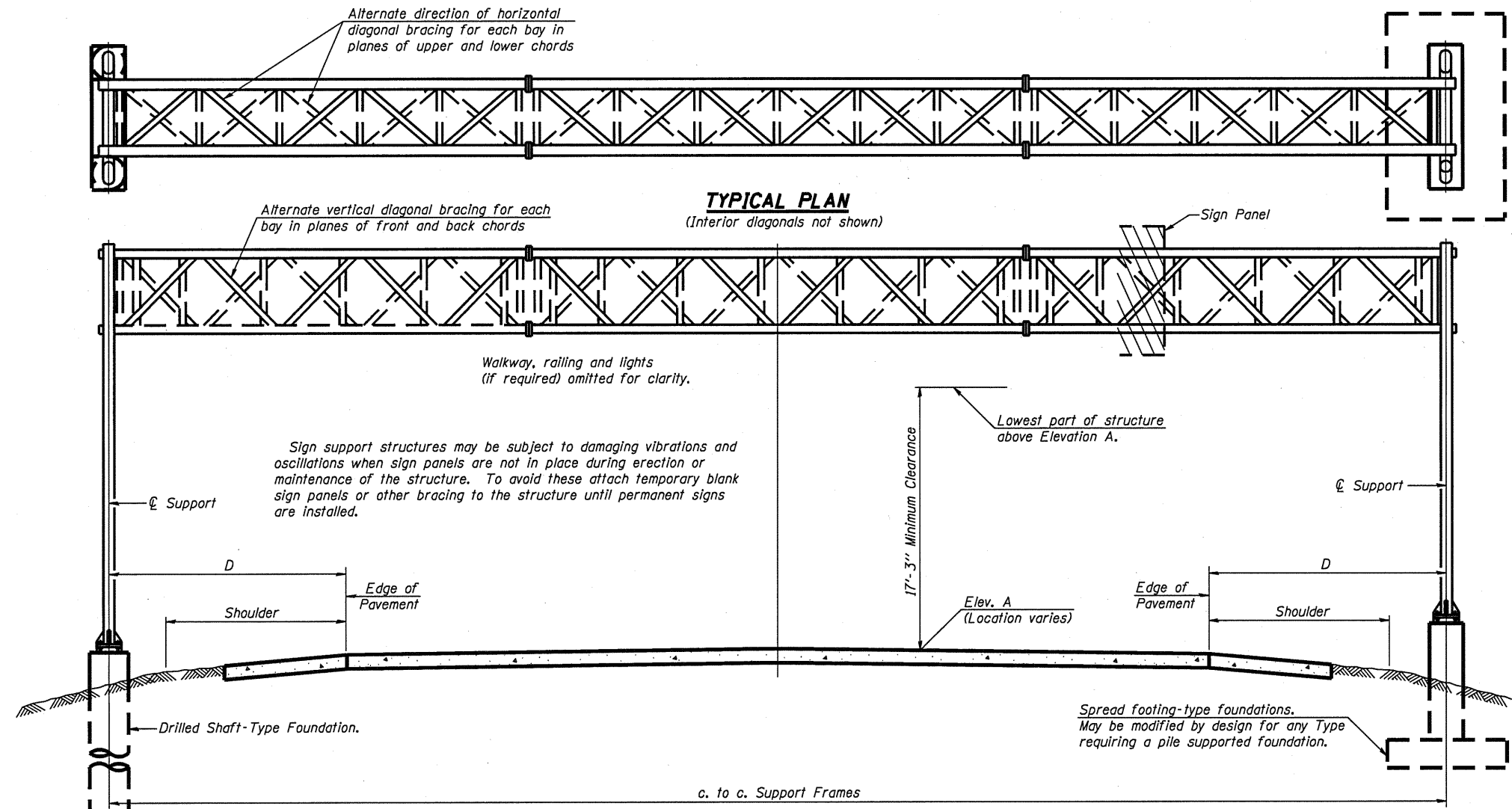
LOCATION NO.	1	STATE I.D. NO.	3S0501039L61.2				
COUNTY	LASALLE	ROUTE	FAI 39	M.P.	61.2	DIRECTION	SB
DESCRIPTION OF WORK				UNIT	QUANTITY		
DISCONNECT/RECONNECT ELECTRIC SERVICE				EACH	1		
REMOVE AND REINSTALL SIGN PANEL				SO FT	302		
REMOVE AND REINSTALL WALKWAY				FOOT	32		
REMOVE OVERHEAD SIGN STRUCTURE - SPAN				EACH	1		
OVERHEAD SIGN STRUCTURE - SPAN TYPE III-A (5'-0" x 7'-0")				FOOT	108		
FURNISH AND INSTALL SAFETY CHAIN				EACH	2		
REPAIR HANDRAIL LOCKING PIN CONNECTION				EACH	5		
REPLACE/TIGHTEN CLIP PER SIGN				EACH	2		
REPLACE U-BOLT (DAMPER)				EACH	2		

LOCATION NO.	2	STATE I.D. NO.	3S0321080L0112.2				
COUNTY	GRUNDY	ROUTE	FAI 80	M.P.	112.2	DIRECTION	WB
DESCRIPTION OF WORK				UNIT	QUANTITY		
DISCONNECT/RECONNECT ELECTRIC SERVICE				EACH	1		
REMOVE AND REINSTALL SIGN PANEL				SO FT	391		
REMOVE AND REINSTALL WALKWAY				FOOT	54		
REMOVE OVERHEAD SIGN STRUCTURE - SPAN				EACH	1		
OVERHEAD SIGN STRUCTURE - SPAN TYPE III-A (5'-0" x 7'-0")				FOOT	103		
REPLACE/TIGHTEN CLIP PER SIGN				EACH	4		

LOCATION NO.	3	STATE I.D. NO.	3C0321080L118.7				
COUNTY	GRUNDY	ROUTE	FAI 80	M.P.	118.7	DIRECTION	WB
DESCRIPTION OF WORK				UNIT	QUANTITY		
DISCONNECT/RECONNECT ELECTRIC SERVICE				EACH	1		
REMOVE, STORE AND RE-ERECT SIGN PANEL				SO FT	78		
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER				EACH	1		
REMOVE AND REINSTALL WALKWAY				FOOT	16		
REMOVE CONCRETE FOUNDATION - OVERHEAD				EACH	1		
DRILLED SHAFT CONCRETE FOUNDATIONS				CU YD	6.8		
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" x 5'-6")				FOOT	30		
FURNISH AND INSTALL SAFETY CHAIN				EACH	2		
RELOCATE ELECTRIC SERVICE				EACH	1		
REPAIR HANDRAIL LOCKING PIN CONNECTION				EACH	4		
FURNISH AND INSTALL WALKWAY TIE DOWN BOLTS				EACH	2		
REPLACE/TIGHTEN CLIP PER SIGN				EACH	4		
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - CANTILEVER				EACH	1		

LOCATION NO.	4	STATE I.D. NO.	3C0381057R268.0				
COUNTY	IROQUOIS	ROUTE	FAI 57	M.P.	268.0	DIRECTION	NB
DESCRIPTION OF WORK				UNIT	QUANTITY		
DISCONNECT/RECONNECT ELECTRIC SERVICE				EACH	1		
REMOVE, STORE AND RE-ERECT SIGN PANEL				SO FT	78		
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER				EACH	1		
REMOVE AND REINSTALL WALKWAY				FOOT	17		
REMOVE CONCRETE FOUNDATION - OVERHEAD				EACH	1		
DRILLED SHAFT CONCRETE FOUNDATIONS				CU YD	6.1		
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" x 5'-6")				FOOT	30		
FURNISH AND INSTALL SAFETY CHAIN				EACH	2		
RELOCATE ELECTRIC SERVICE				EACH	1		
REPAIR HANDRAIL LOCKING PIN CONNECTION				EACH	4		
FURNISH AND INSTALL WALKWAY TIE DOWN BOLTS				EACH	4		
REPLACE/TIGHTEN CLIP PER SIGN				EACH	4		
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - CANTILEVER				EACH	1		

LOCATION NO.	5	STATE I.D. NO.	3C0381057R269.3				
COUNTY	IROQUOIS	ROUTE	FAI 57	M.P.	269.3	DIRECTION	SB
DESCRIPTION OF WORK				UNIT	QUANTITY		
DISCONNECT/RECONNECT ELECTRIC SERVICE				EACH	1		
REMOVE, STORE AND RE-ERECT SIGN PANEL				SO FT	78		
REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER				EACH	1		
REMOVE OVERHEAD SIGN STRUCTURE WALKWAY				FOOT	17		
REMOVE CONCRETE FOUNDATION - OVERHEAD				EACH	1		
DRILLED SHAFT CONCRETE FOUNDATIONS				CU YD	6.1		
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE II-C-A (36" x 5'-6")				FOOT	30		
OVERHEAD SIGN STRUCTURE - WALKWAY				FOOT	17		
FURNISH AND INSTALL SAFETY CHAIN				EACH	2		
RELOCATE ELECTRIC SERVICE				EACH	1		
REPLACE/TIGHTEN CLIP PER SIGN				EACH	4		
STRUCTURAL STEEL SUPPORT FOR OVERHEAD SIGN STRUCTURE - CANTILEVER				EACH	1		



GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:
Field Units
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs 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.

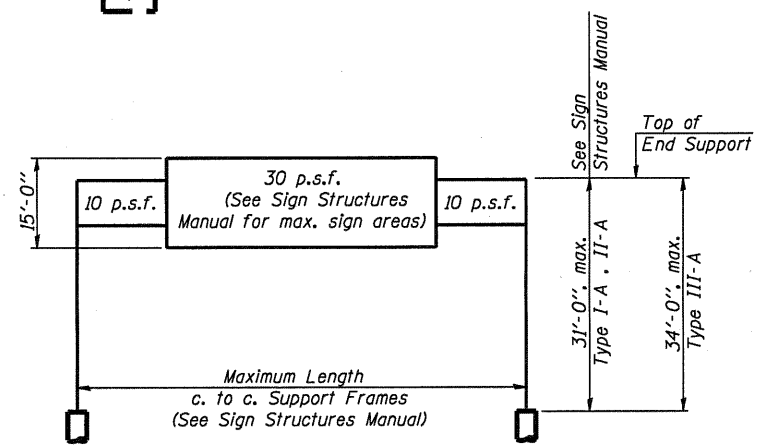
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

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.

TYPICAL ELEVATION
(Looking at Face of Signs)**

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



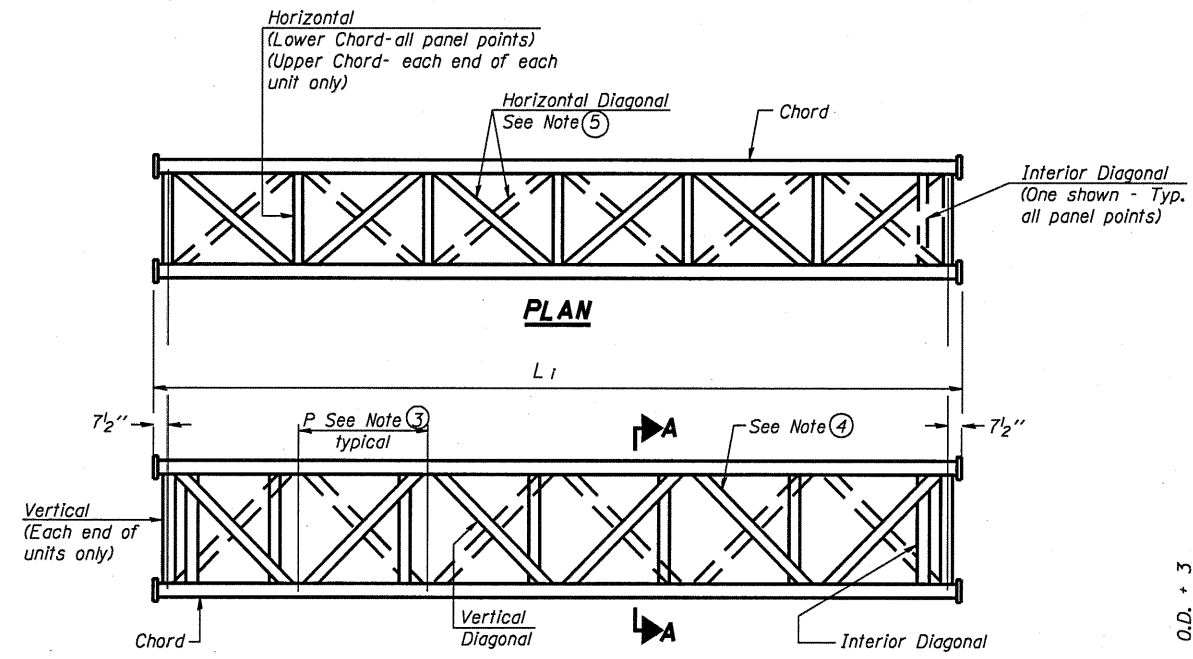
DESIGN WIND LOADING DIAGRAM
Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
3S0501039L061.2	1158+78	III-A	108'-0"	100.00	42'-0"	12.5 Ft.	279 Sq. Ft.
3S0321080L112.2	1217+88	III-A	103'-0"	100.00	35'-0"	11.5 Ft.	449 Sq. Ft.

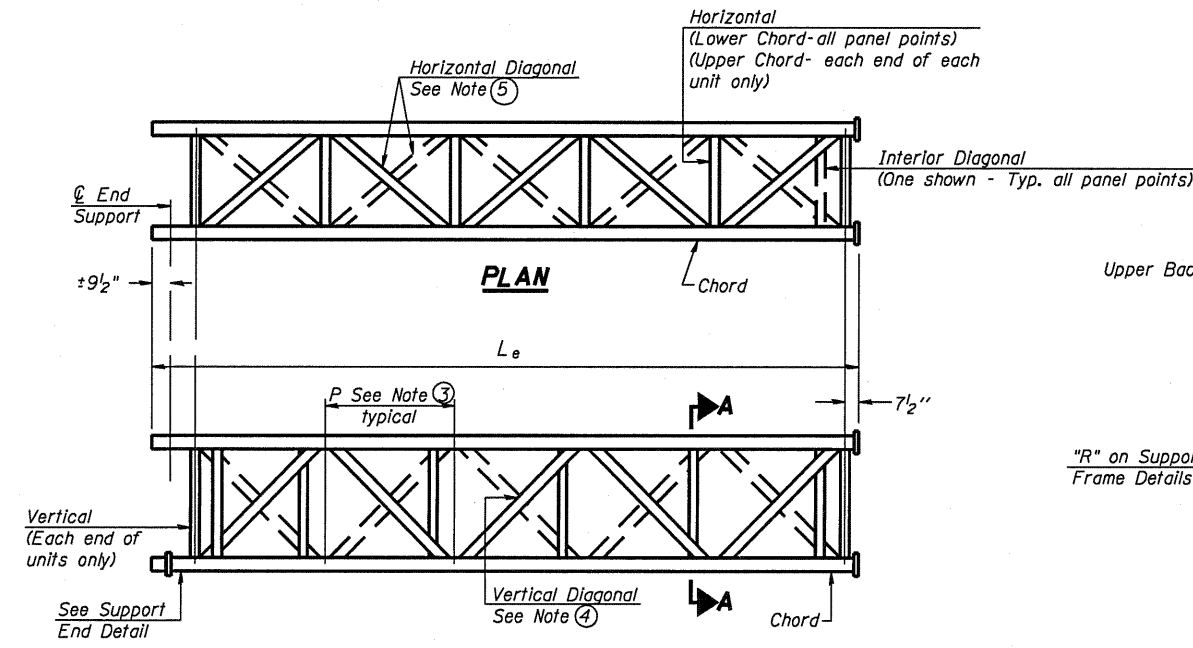
**Looking upstation for structures with signs both sides.
* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

05-A-1 7-1-10

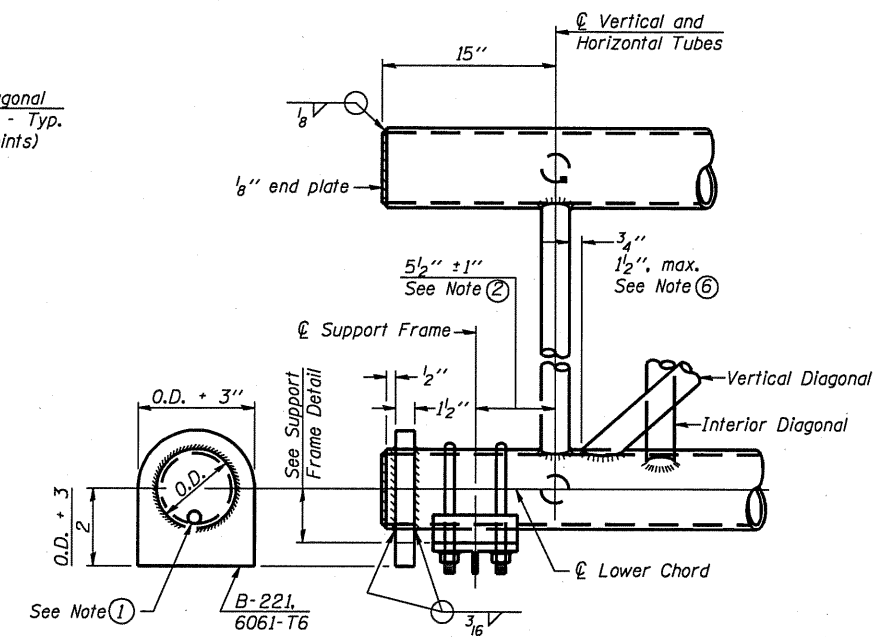
FILE NAME =	USER NAME = woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION ALUMINUM TRUSS & STEEL POST	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\woodshankr1\d0235124\6131-Details.dgn	DRAWN - RON WOODSHANK	REVISED -	VAR			D-3 OVD SIN STR REPL 2011-08	VAR	25	7	
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	SCALE:			SHEET NO. 1 OF 7 SHEETS	STA. _____ TO STA. _____	ILLINOIS		
PLOT DATE = Sep 23, 2010 - 8:43:28 AM	DATE -	REVISED -	CONTRACT NO. 46131							



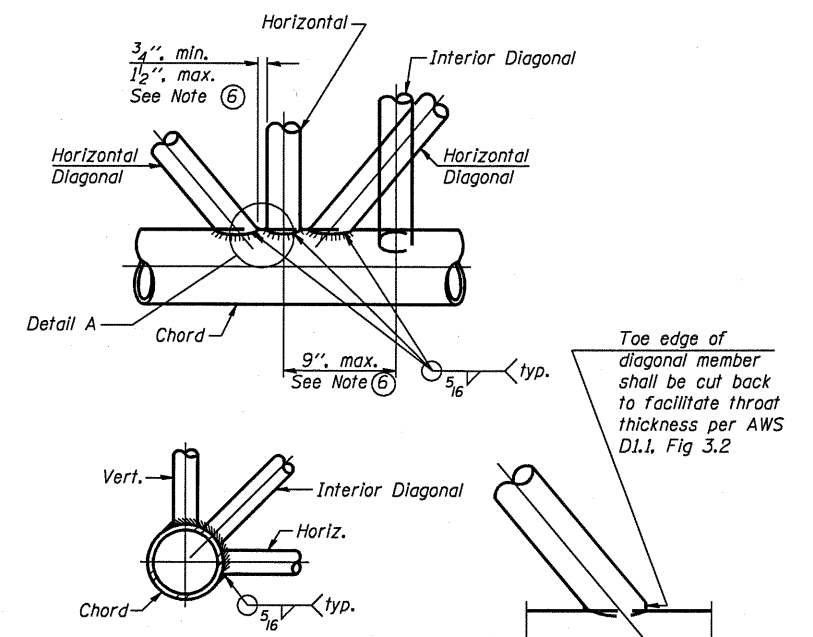
**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.



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

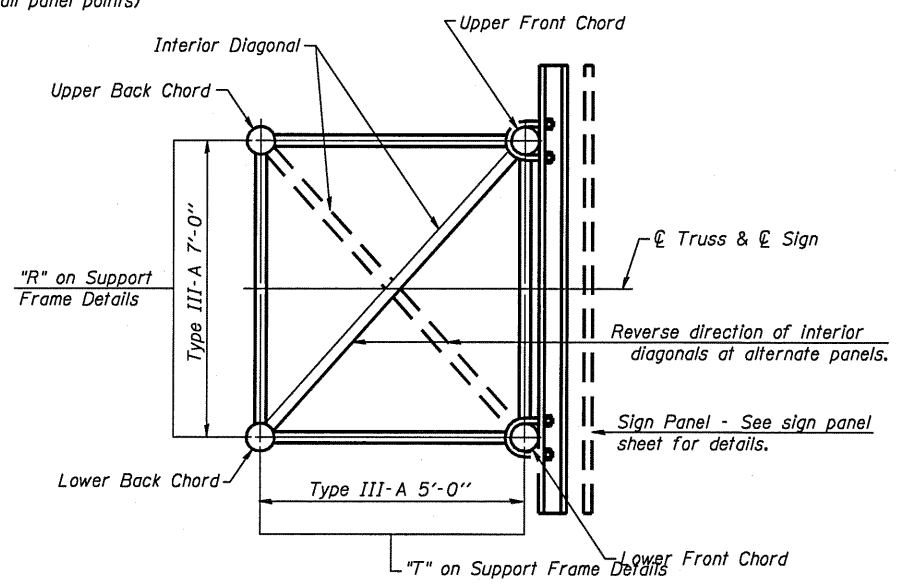


SUPPORT END DETAIL FOR EXTERIOR UNIT



TYPICAL JOINT DETAILS

DETAIL A



SECTION A-A

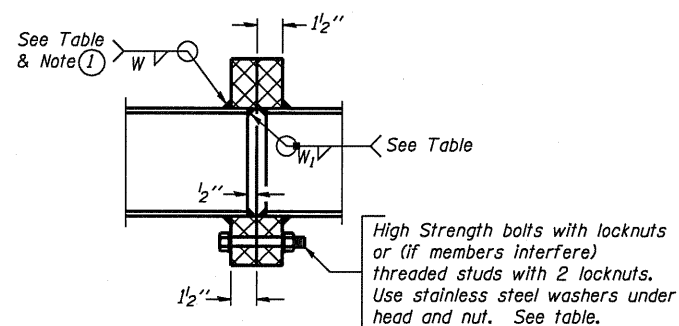
- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" diameter drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by +/- 1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss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

OS-A-2 7-1-10

FILE NAME *	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPE III-A	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os\pw_work\p\dot\woodshankr1\d0235124\6131-Details.dgn	DRAWN - RON WOODSHANK	REVISED -	VAR			0-3 OVD SIN STR REPL 2011-08	VAR	25	8	
PLOT SCALE = 100,0000 ' / IN.	CHECKED -	REVISED -	SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.			CONTRACT NO. 46131				
PLOT DATE = Sep 23, 2010 - 09:34:27 AM	DATE -	REVISED -	ILLINOIS							

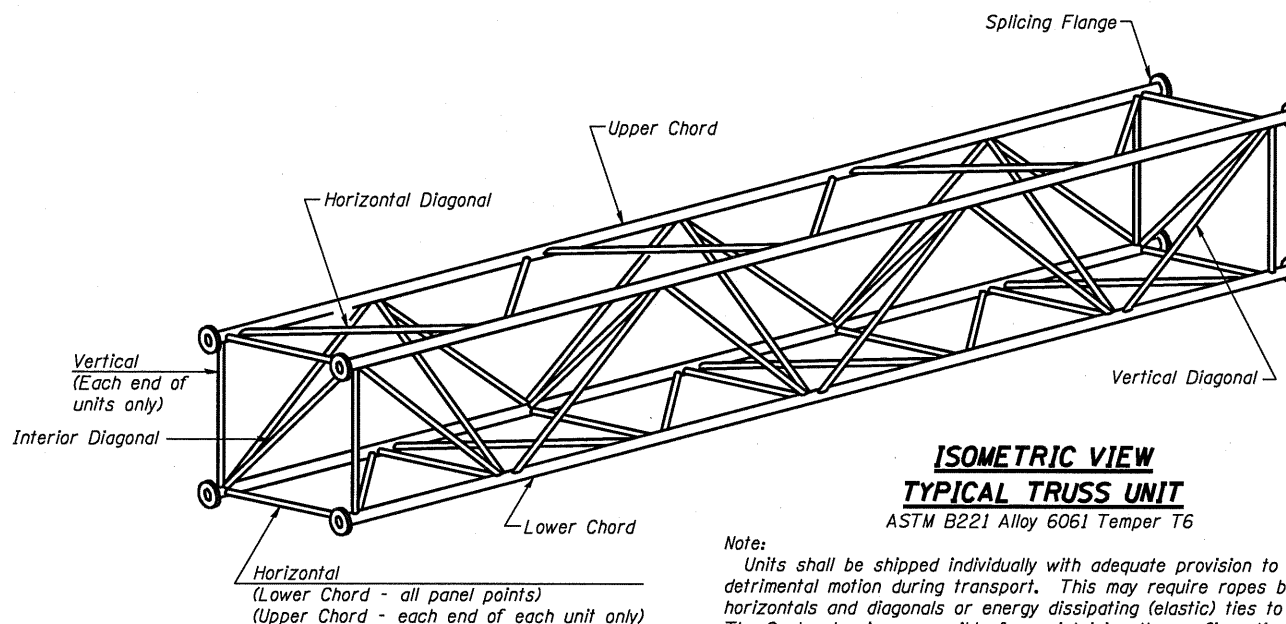
TRUSS UNIT TABLE

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 _u)	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				
3S0501039L061.2	1158+78	III-A	7	38'-5 3/4"	5'-2 3/4"	1	6	32'-7 1/2"	5'-2 3/4"	7"	5/16"	3 1/4"	5/16"	2 3/4	6	1"	7/16"	5/16"	11 1/2"	15"		
3S0321080L0112.2	1217+88	III-A	7	36'-8 3/4"	4'-11 3/4"	1	6	31'-1 1/2"	4'-11 3/4"	7"	5/16"	3 1/4"	5/16"	2 1/2	6	1"	7/16"	5/16"	11 1/2"	15"		

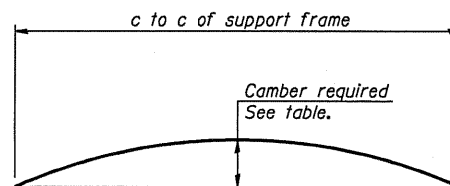


SECTION B-B

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.



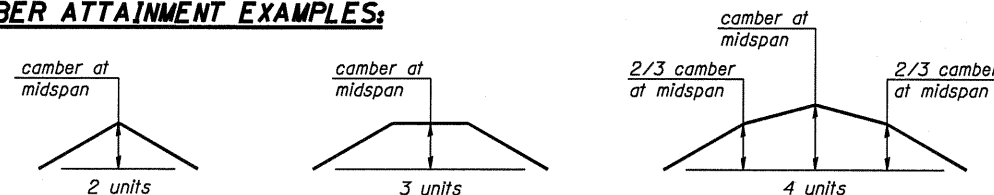
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



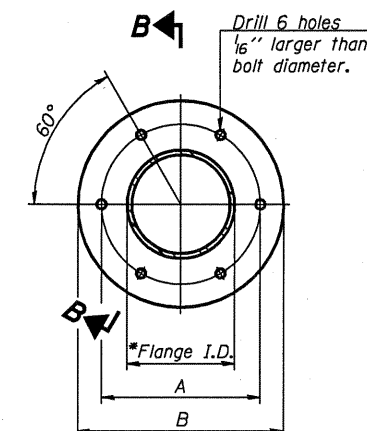
CAMBER DIAGRAM

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

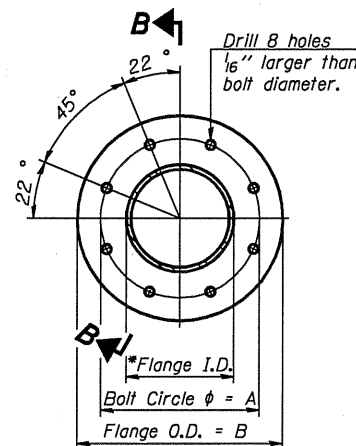
CAMBER ATTAINMENT EXAMPLES:



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



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



TRUSS TYPES II-A & III-A

SPLICING FLANGES

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

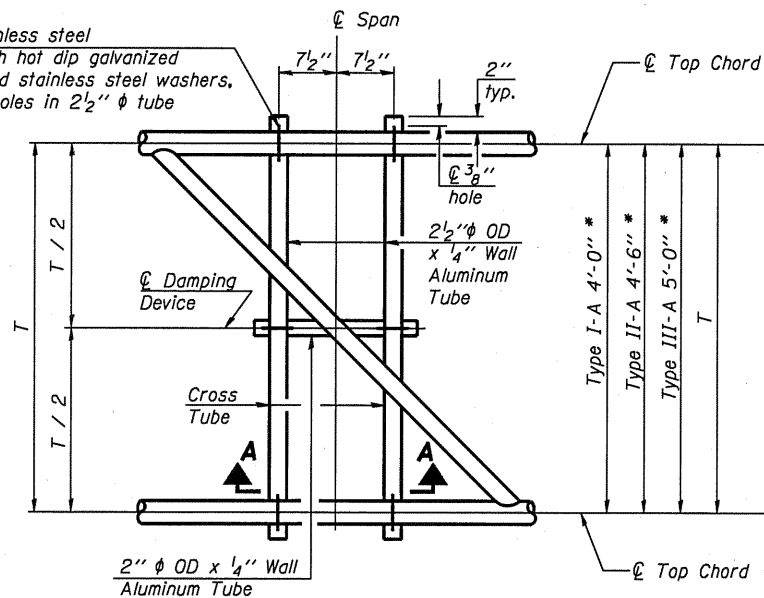
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2

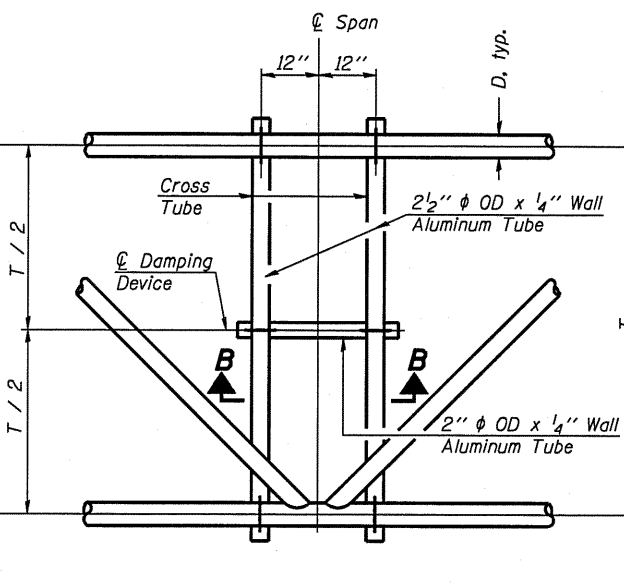
7-1-10

FILE NAME *	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPE III-A	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\pwwork\woodshankr1\d8235124\6131-Detail.dgn	DRAWN - RON WOODSHANK	REVISED -	VAR			D-3 OVD SIN STR REPL 2011-08	VAR	24	9	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 46131							
PLOT DATE = Oct 18, 2010 - 12:00:23 PM	DATE -	REVISED -	ILLINOIS							
				SCALE: _____	SHEET NO. 3 OF 8 SHEETS	STA. _____	TO STA. _____			

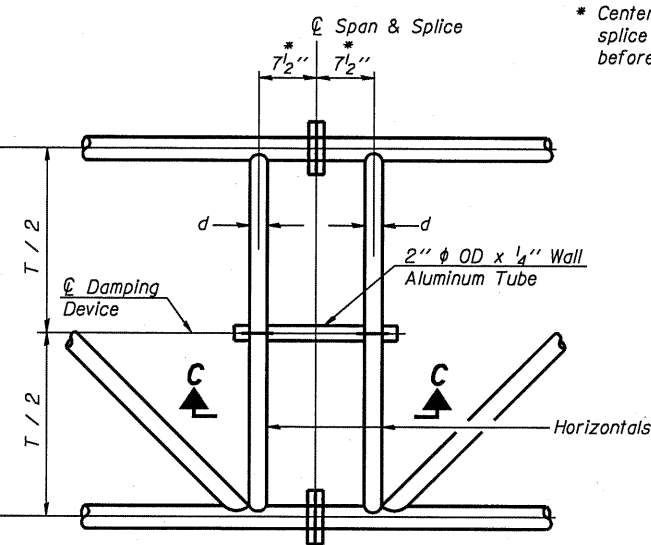
5/16" φ stainless steel
U-bolt with hot dip galvanized
locknuts and stainless steel washers,
typ. 3/8" φ holes in 2 1/2" φ tube



PLAN DETAIL "A"
Span between Panel Points



PLAN DETAIL "B"
Span at Panel Point



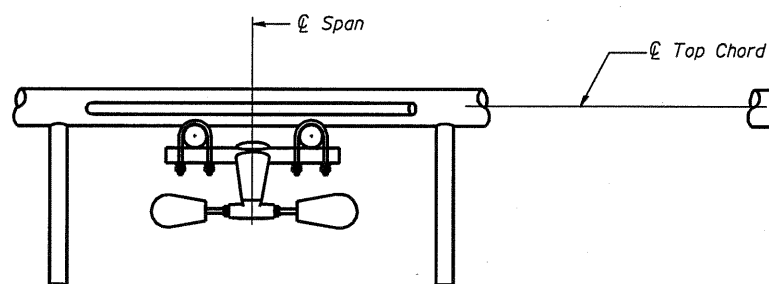
PLAN DETAIL "C"
Span at Chord Splice

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

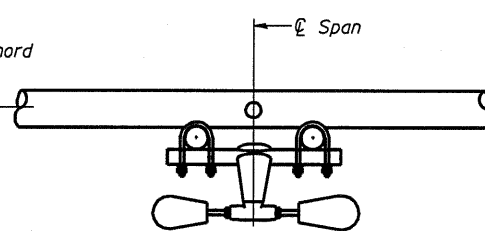
NOTES

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

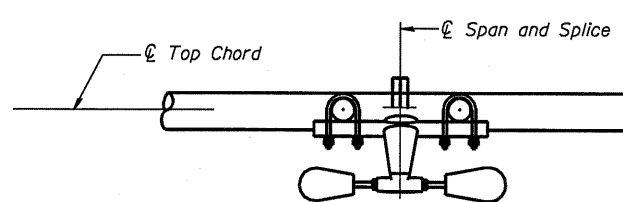
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



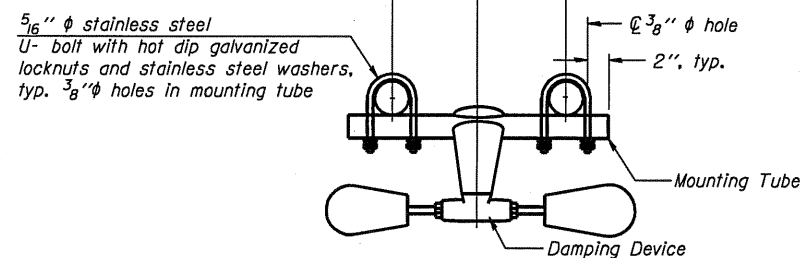
SECTION A-A



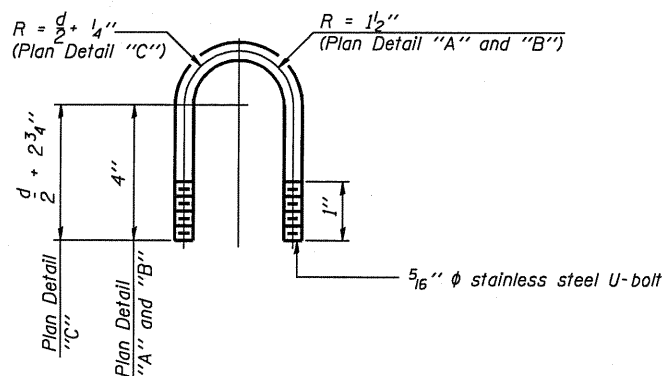
SECTION B-B



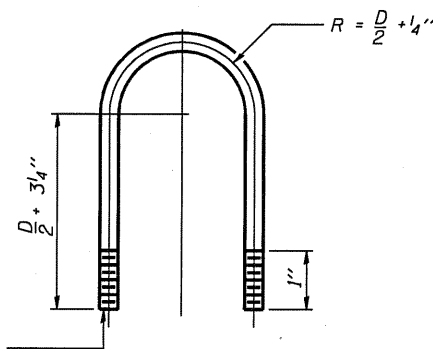
SECTION C-C



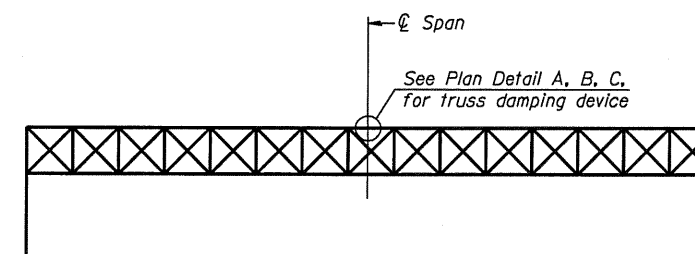
**TRUSS DAMPING
DEVICE CONNECTION DETAIL**
(Typical)



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



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

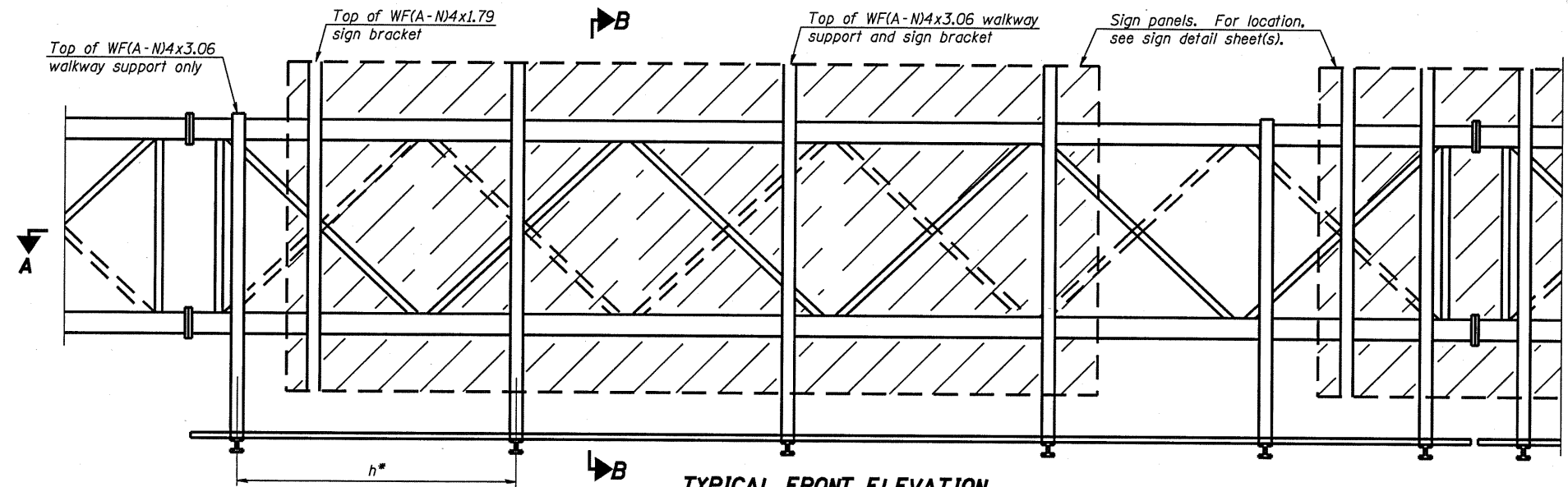


ELEVATION
Aluminum Overhead
Sign Truss

OS-A-D

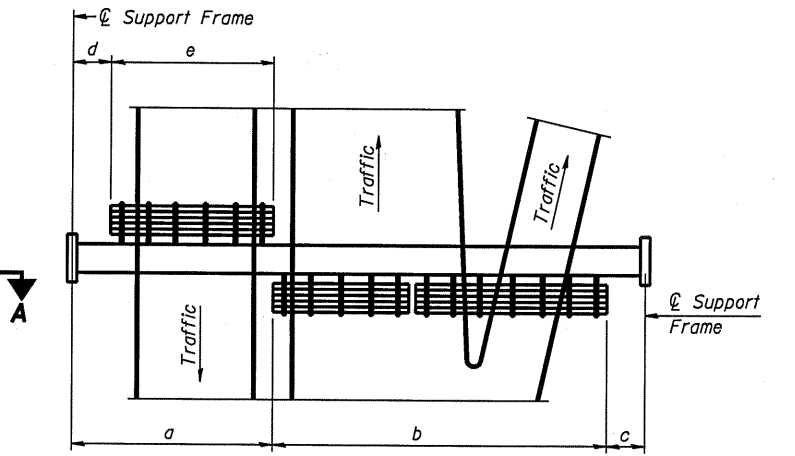
7-1-10

FILE NAME: at:\pwork\pilot\woodshankr1\d0235124	USER NAME: woodshankr1	DESIGNED: RON WOODSHANK	REVISED: -----	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURE DAMPING DEVICE	F.A.I. R.T.E. VAR	SECTION D-3 OVD SIN STR REPL 2011-08	COUNTY VAR	TOTAL SHEETS 25	SHEET NO. 11	
PLOT SCALE: 1/8" = 1'-0"		DRAWN: RON WOODSHANK	REVISED: -----			SCALE: -----	SHEET NO. 4 OF 7 SHEETS	STA. ----- TO STA. -----	CONTRACT NO. 46131		ILLINOIS
PLOT DATE: Sep 23, 2010 8:35:20 AM		CHECKED: -----	REVISED: -----								
		DATE: -----	REVISED: -----								

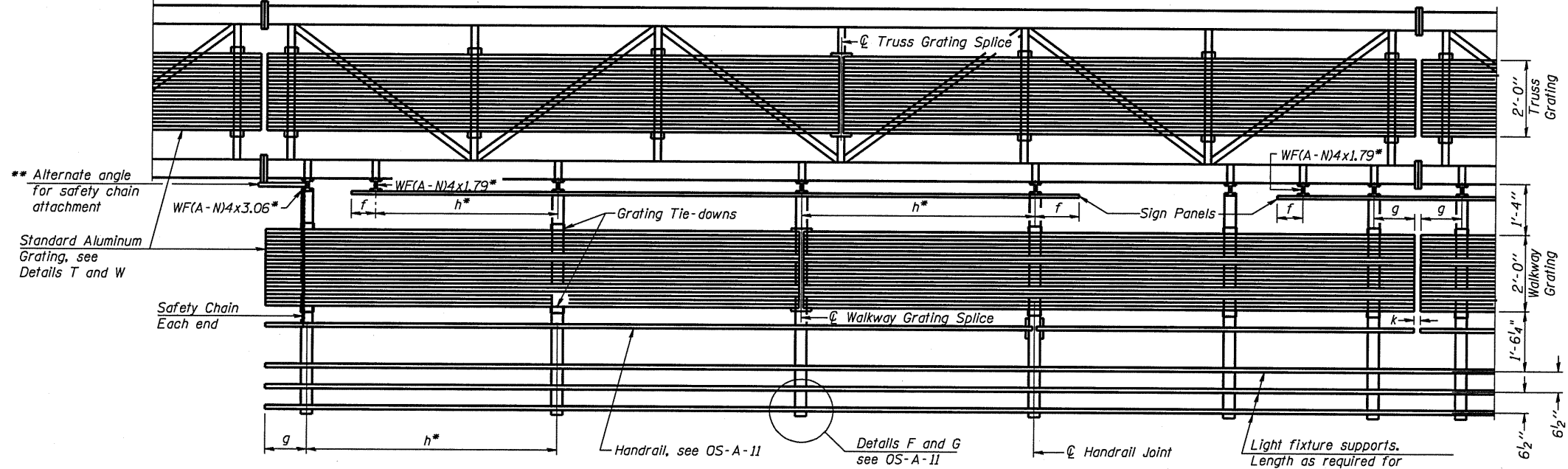


TYPICAL FRONT ELEVATION

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



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



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.

BRACKET TABLE

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

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths

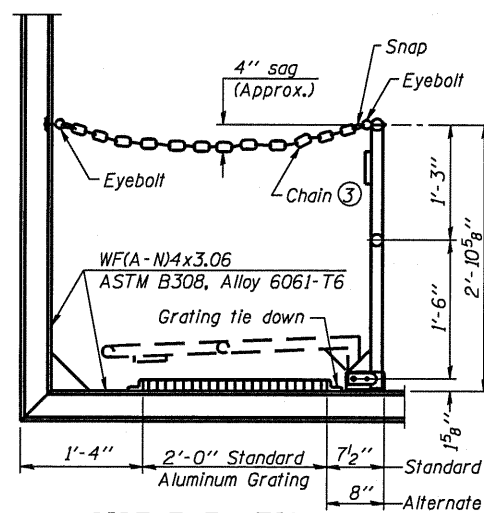
Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

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

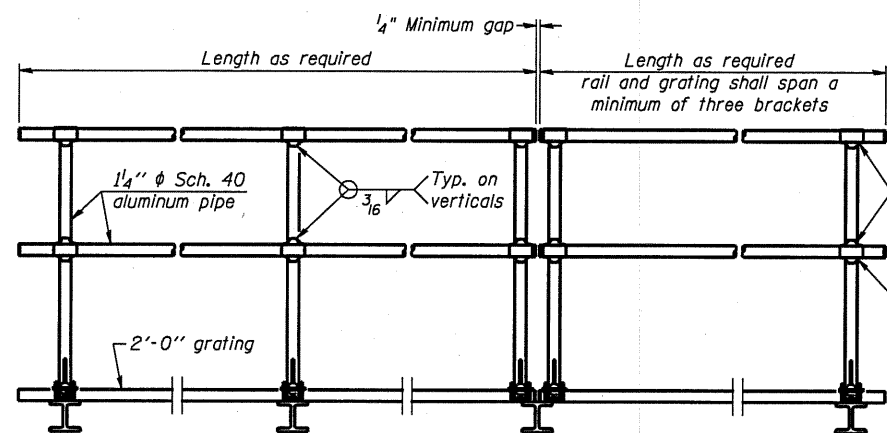
OS-A-9 7-1-10

**LOCATION 1 AND 2
THIS SHEET FOR INFORMATION ONLY**

FILE NAME * c:\pwwork\p\idot\woodshankr\1\08235124\6131-Details.dgn	USER NAME * woodshankr	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES ALUMINUM WALKWAY DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISOR -	VAR			D-3 OVD SIN STR REPL 2011-08	VAR	25	12	
PLOT DATE = Sep 23, 2010 - 09:35:35 AM	DATE -	REVISOR -	SCALE: _____			SHEET NO. 5 OF 7 SHEETS	STA. _____ TO STA. _____	ILLINOIS		CONTRACT NO. 46131



SIDE ELEVATION
(Showing safety chain w/o sign)

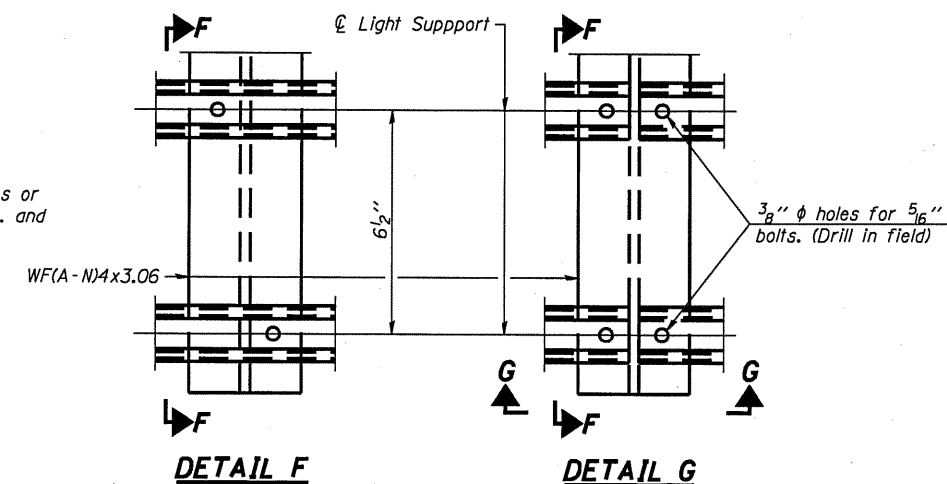


FRONT ELEVATION

HANDRAIL DETAILS

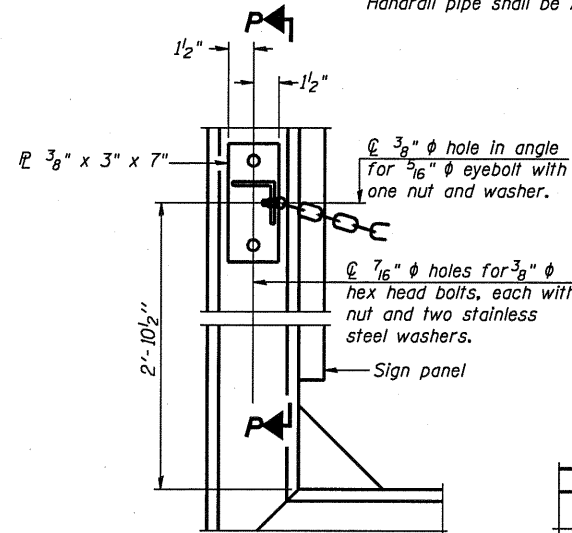
Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.

- ① Install standard force-fit end caps or weld 1/8 inch end plates with 1/8 inch c.f.w. and grind smooth. (All rail ends)
- ② Horizontal handrail member shall be continuous thru fitting. Provide 1/16 inch hole in fitting for 3/8 inch bolt. Field drill 1/16 inch hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16 inch eyebolts in 1/16 inch holes on top rail at ends only.)



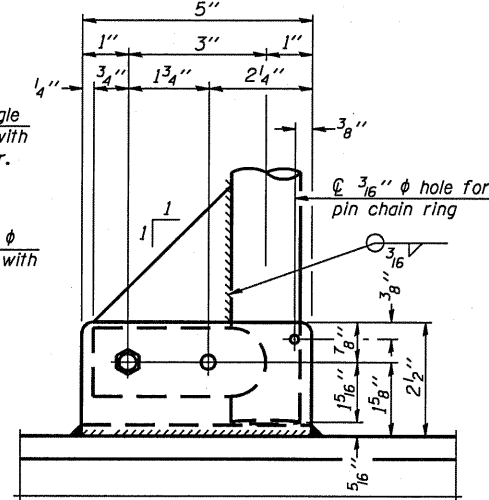
DETAIL F

DETAIL G

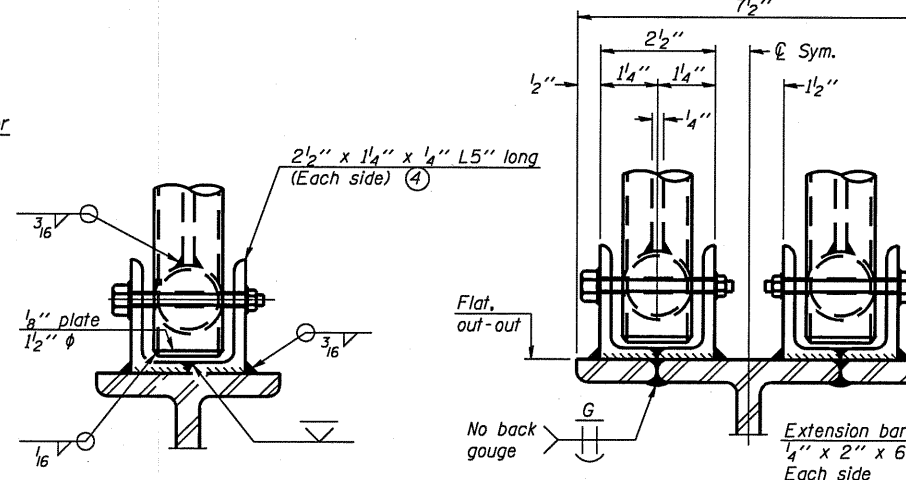


ALTERNATE SAFETY CHAIN ATTACHMENT

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



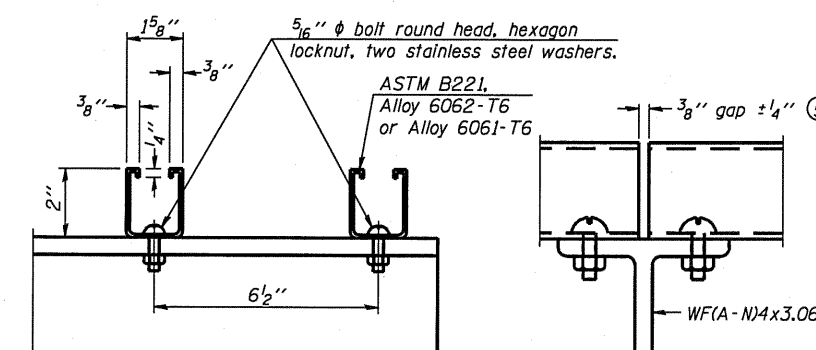
SIDE ELEVATION



FRONT ELEVATION

See "Elevation" at right for dimensions.

ELEVATION AT HANDRAIL JOINT

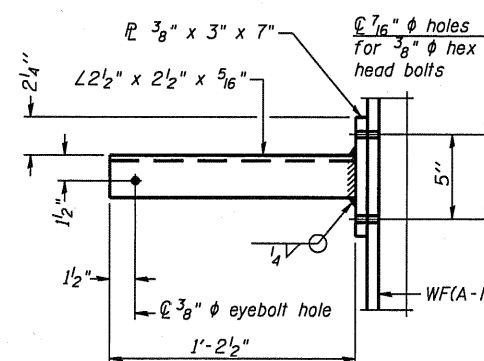


SECTION F-F

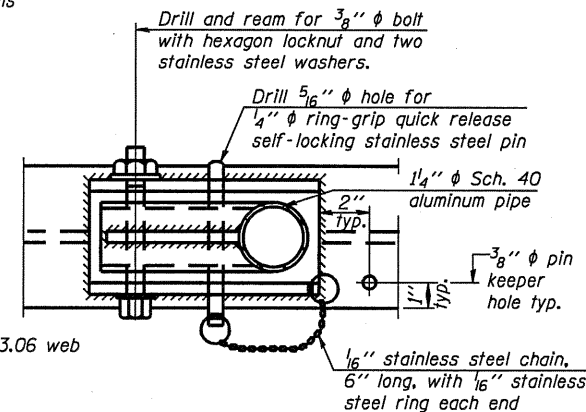
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

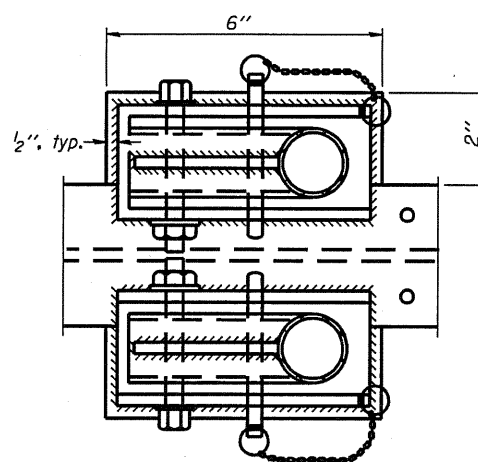
- ⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



SECTION P-P

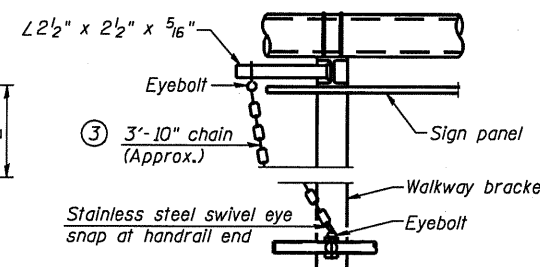


**PLAN
DETAIL E HANDRAIL HINGE**



PLAN AT HANDRAIL JOINT

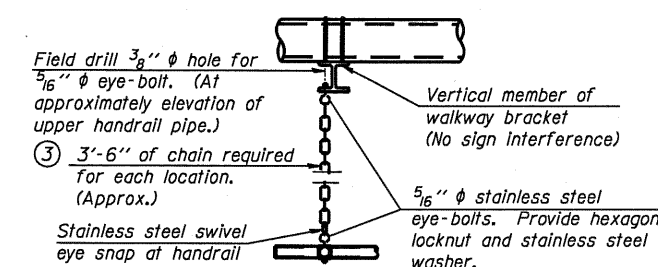
Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT

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

- ③ 3/16 inch Type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



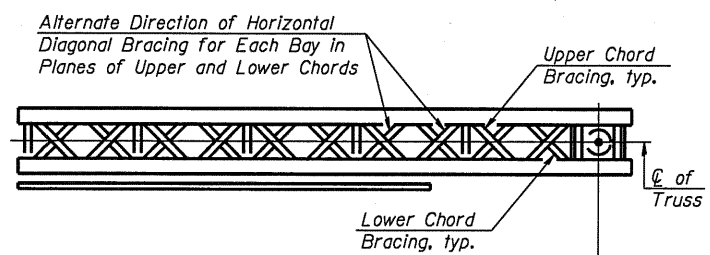
SAFETY CHAIN

One required for each end of each walkway.

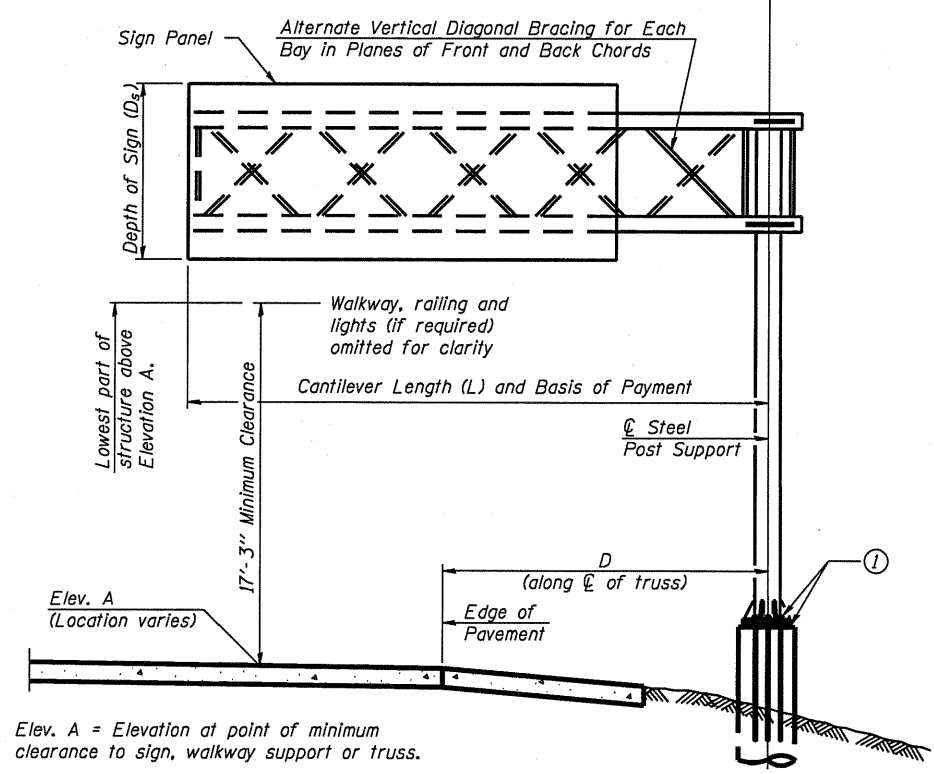
OS-A-11 7-1-10

**LOCATION 1 AND 2
THIS SHEET FOR INFORMATION ONLY**

FILE NAME c:\pw\work\p1dot\woodshankr\1\d0235124\	USER NAME woodshankr1	DESIGNED RON WOODSHANK	REVISED -----	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALUMINUM HANDRAIL DETAIL		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 100,00000 / IN.	DRAWN RON WOODSHANK	CHECKED ---	REVISED -----		SCALE	SHEET NO.	7 OF 7 SHEETS	VAR	D-3 OVD SIN STR REPL 2011-08	VAR	25	14
PLOT DATE = Sep 23, 2010 - 09:36:22 AM	DATE -----	REVISOR -----	REVISOR -----		STA.	TO STA.		ILLINOIS				
							CONTRACT NO. 46131					



TYPICAL PLAN
(Walkway not shown)

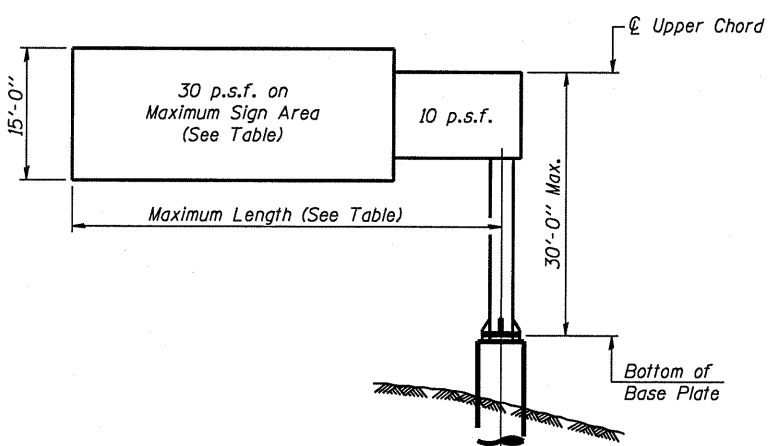


TYPICAL ELEVATION
Looking in Direction of Traffic

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
3C0321080L118.7	1548+40	II-C-A	30'-0"	100.00	21'-6"	6'-6"	78 Sq. Ft.
3C0381057R268.0	1442+55	II-C-A	30'-0"	100.00	21'-6"	6'-6"	78 Sq. Ft.
3C0381057L269.3	1374+50	II-C-A	30'-0"	100.00	21'-6"	6'-6"	78 Sq. Ft.

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.

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.

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.

* 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.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:
Field Units
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs 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.

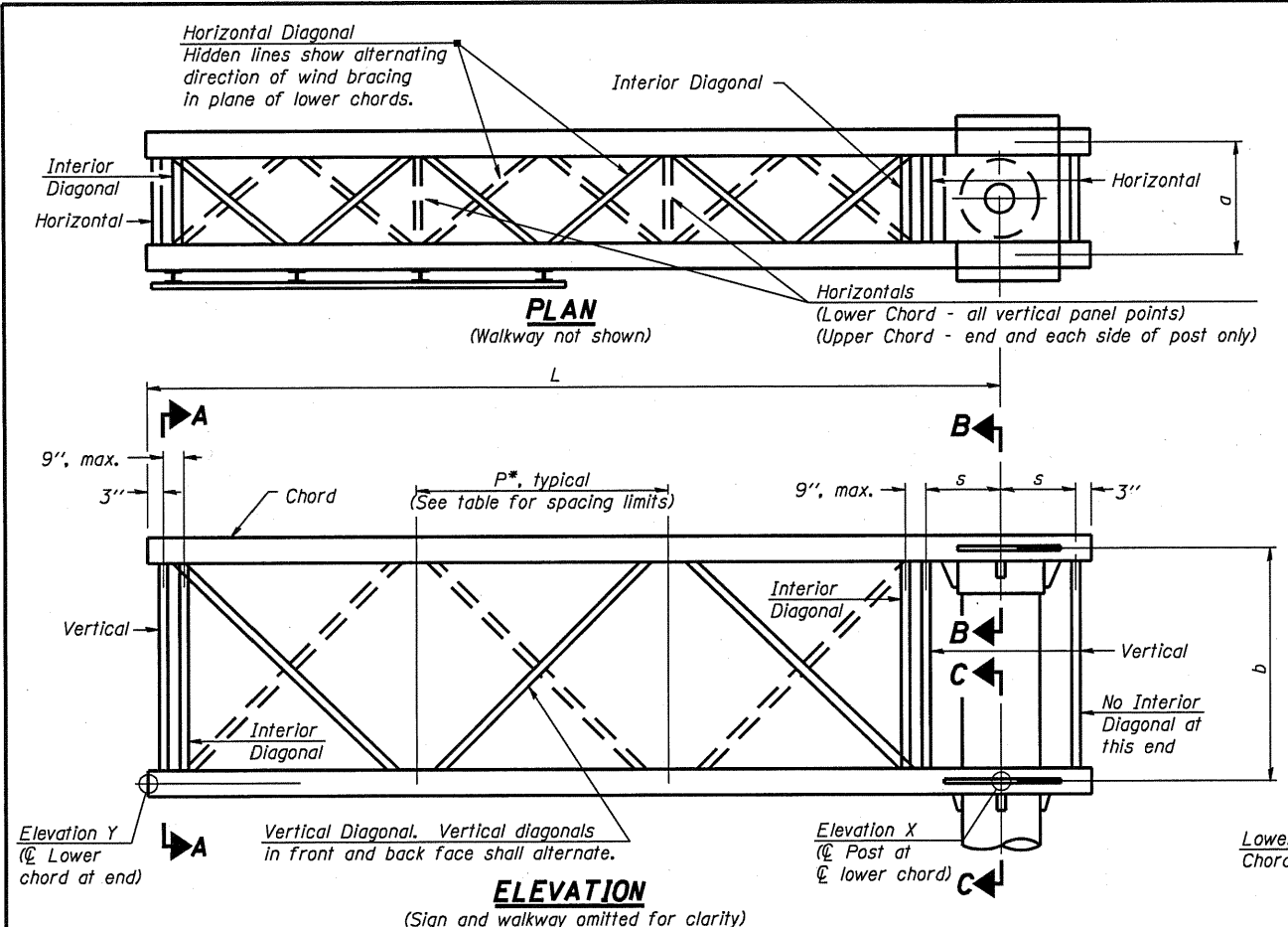
REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

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

OSC-A-1

7-1-10

FILE NAME * c:\pw_work\p\dot\woodshankr1\d8230124\6131-Detail.dgn	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED - -----	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION ALUMINUM TRUSS & STEEL POST	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE * 100.0000' / IN.	CHECKED - ---	REVISED - -----	VAR			D-3 OVD SIN STR REPL 2011-08	VAR	25	15	
PLOT DATE * Sep 23, 2010 09:36:47 AM	DATE - -----	REVISED - -----	SCALE: -----			SHEET NO. 1 OF 9 SHEETS	STA. ----- TO STA.	[ILLINOIS]		CONTRACT NO. 46131



TYPICAL TRUSS UNIT
(Sign and walkway omitted for clarity)

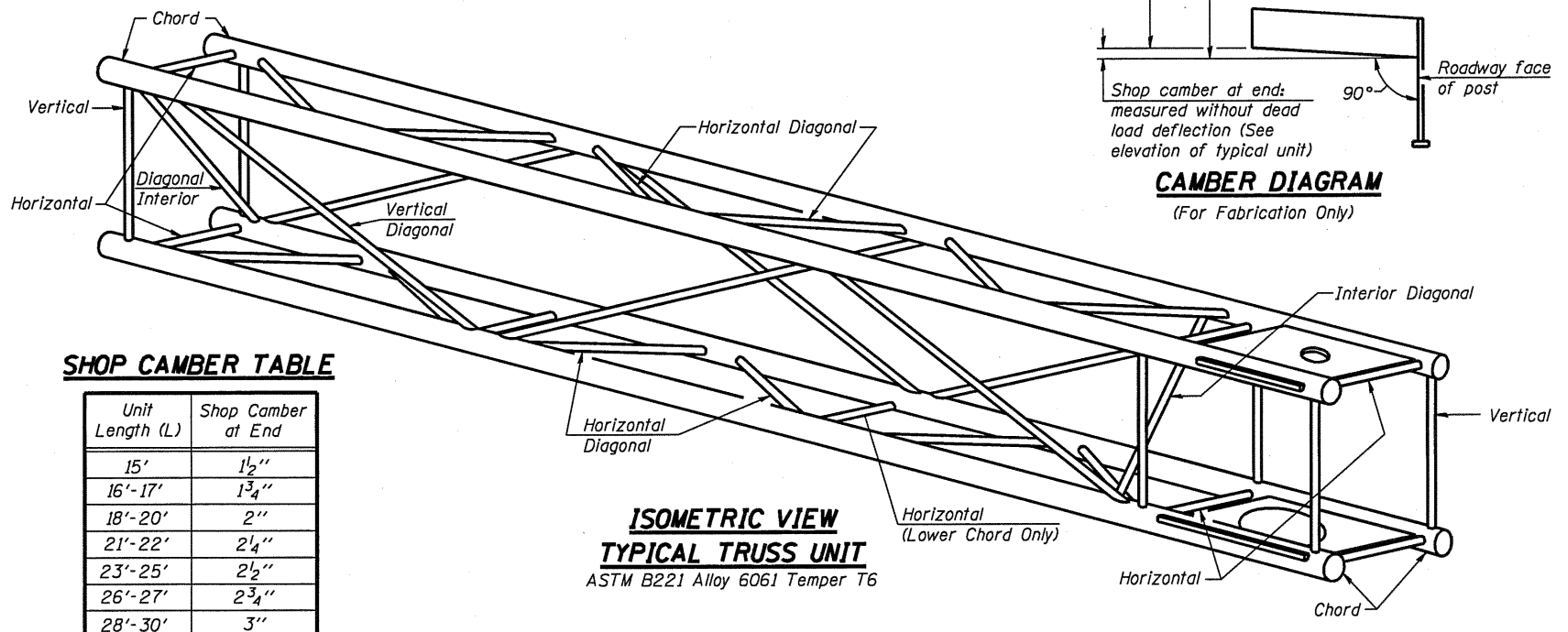
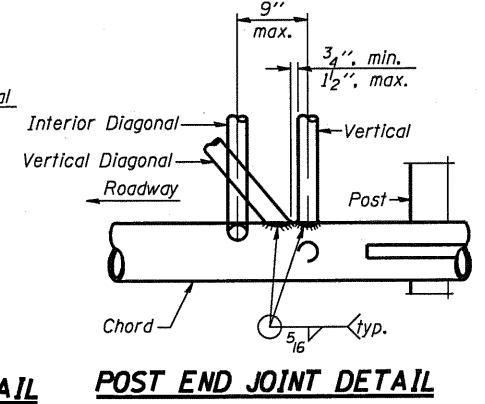
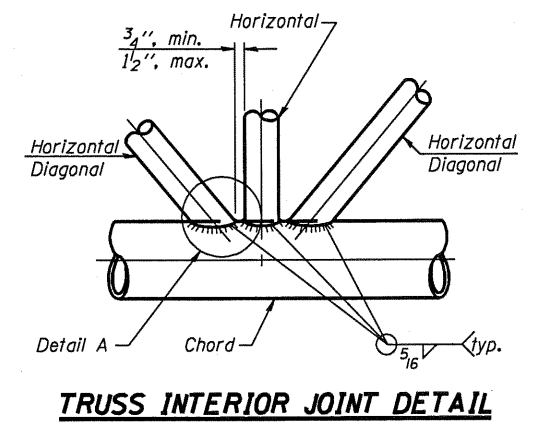
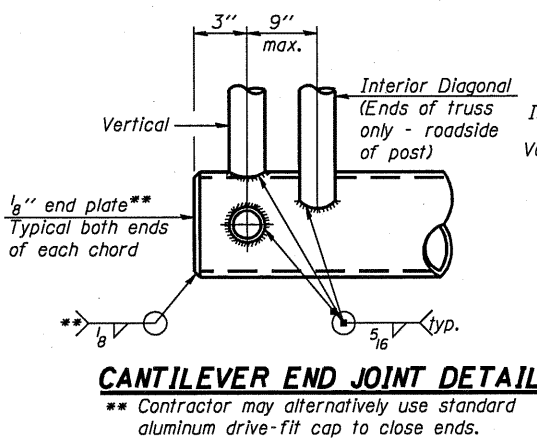
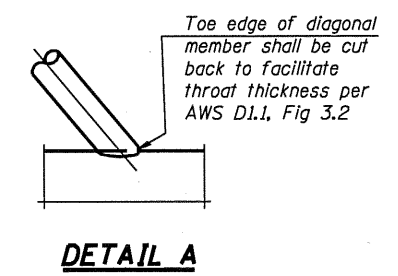
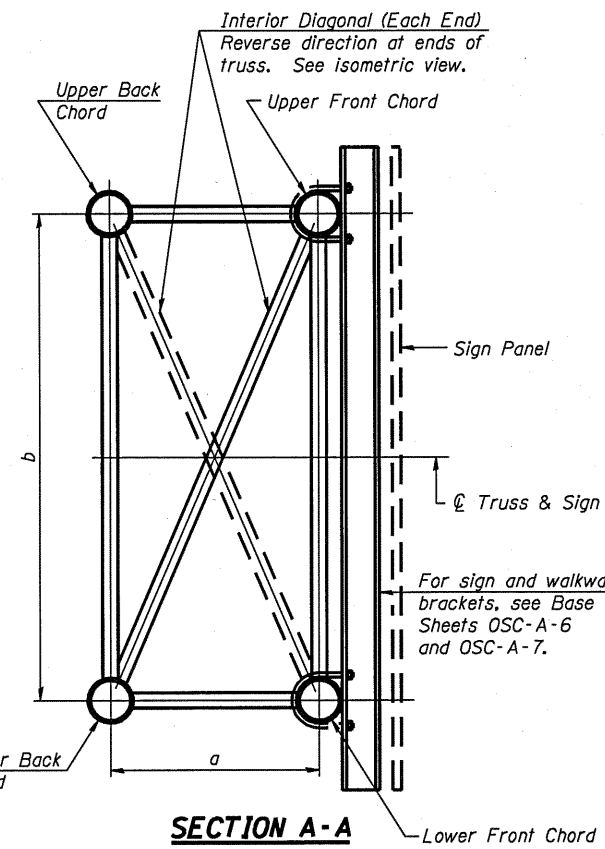
Note: For Section B-B and Section C-C, see Base Sheet OSC-A-3.
There are twice as many horizontal diagonals as there are vertical diagonals.

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	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"

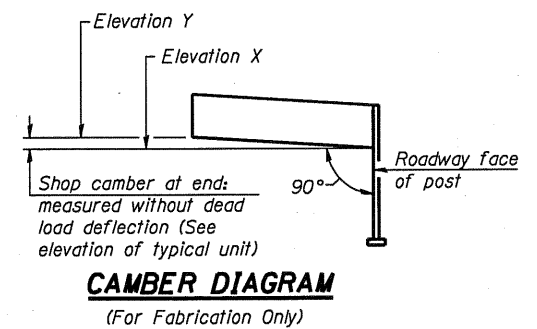
*P = $\frac{L-s-3"}{\# \text{ Panels}}$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
3C0321080L118.7	1548+40	II-C-A	30'-0"	7	4'-0"
3C0381057R268.0	1442+55	II-C-A	30'-0"	7	4'-0"
3C0381057L269.3	1374+50	II-C-A	30'-0"	7	4'-0"



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"



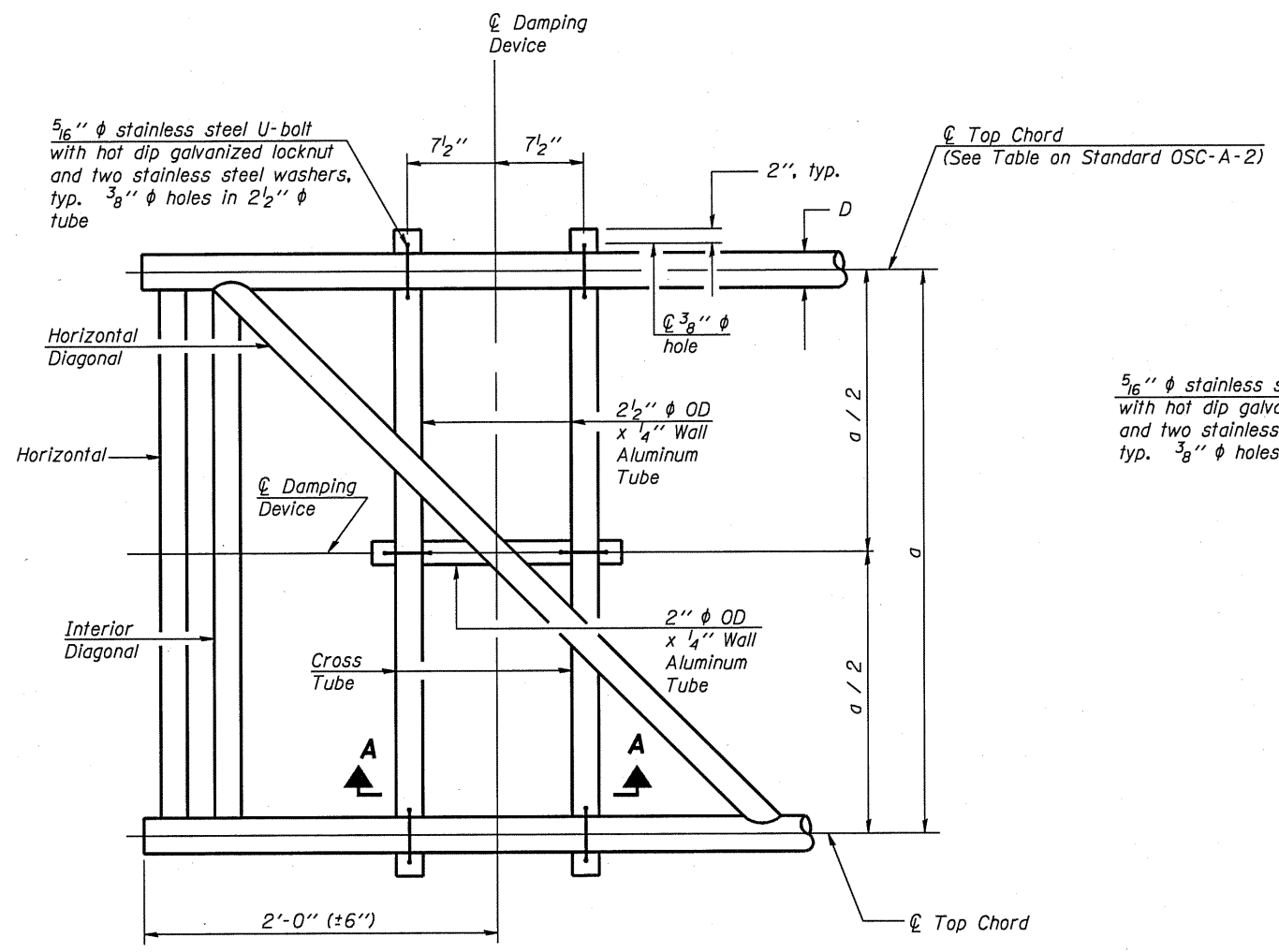
OSC-A-2 7-1-10

FILE NAME * c:\pwwork\pwwork\woodshankr1\d0235124\6131-Details.dgn	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED - -----
PLOT SCALE * 100.0000 / IN.	CHECKED - ---	DRAWN - RON WOODSHANK	REVISED - -----
PLOT DATE * Sep 23, 2010 09:37:07 AM	DATE - -----	CHECKED - ---	REVISED - -----

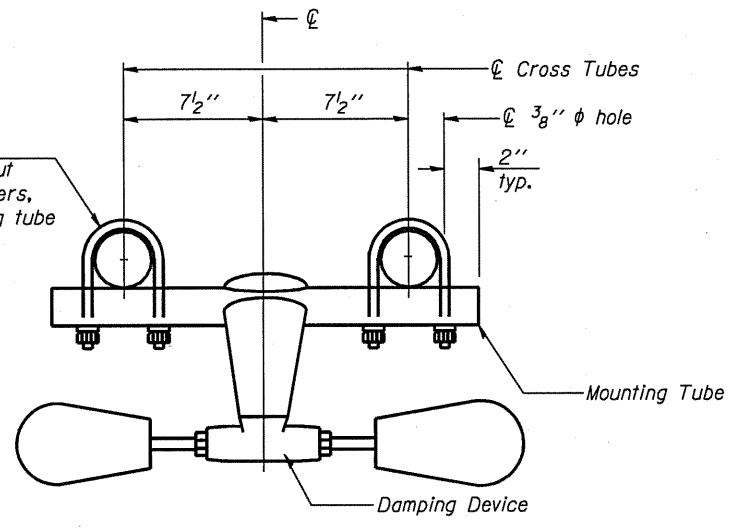
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

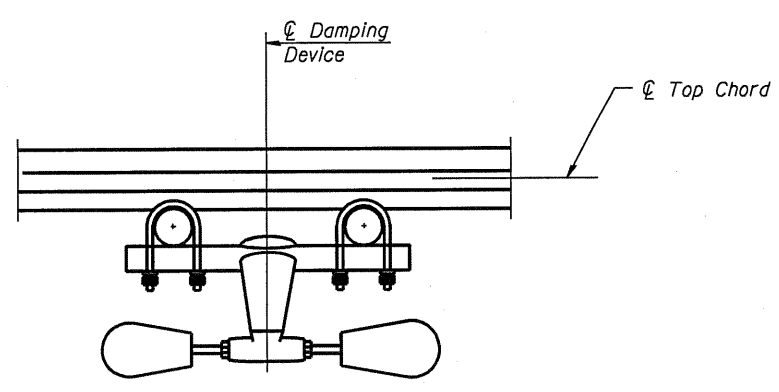
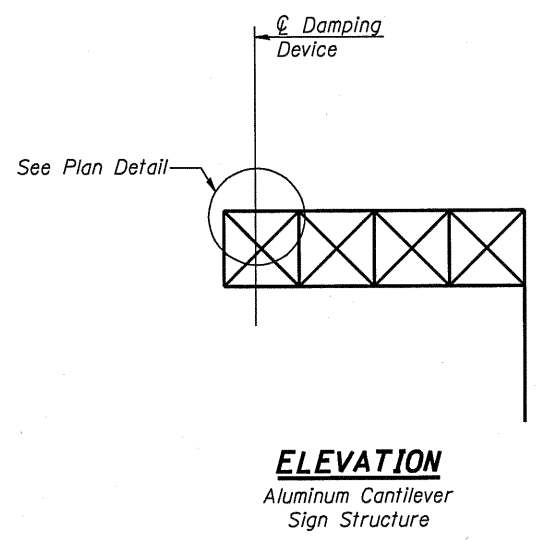
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SCALE: _____ SHEET NO. 2 OF 9 SHEETS STA. _____ TO STA. _____			CONTRACT NO. 46131	



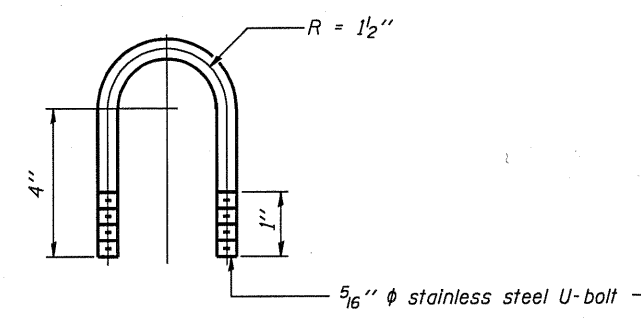
PLAN DETAIL



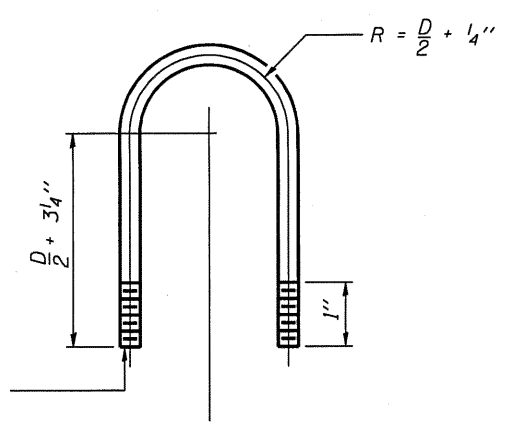
TRUSS DAMPING DEVICE CONNECTION DETAIL



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

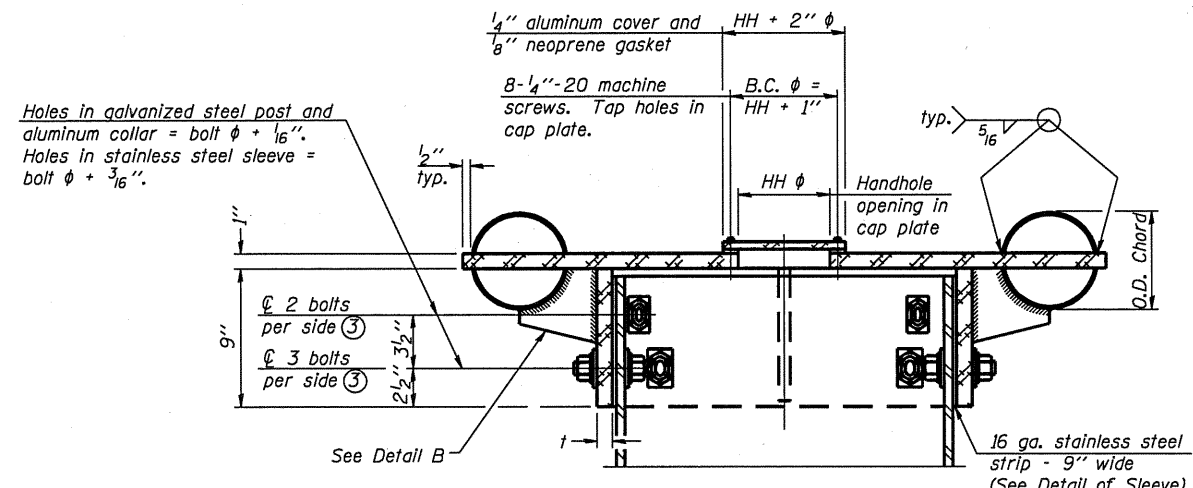


TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

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

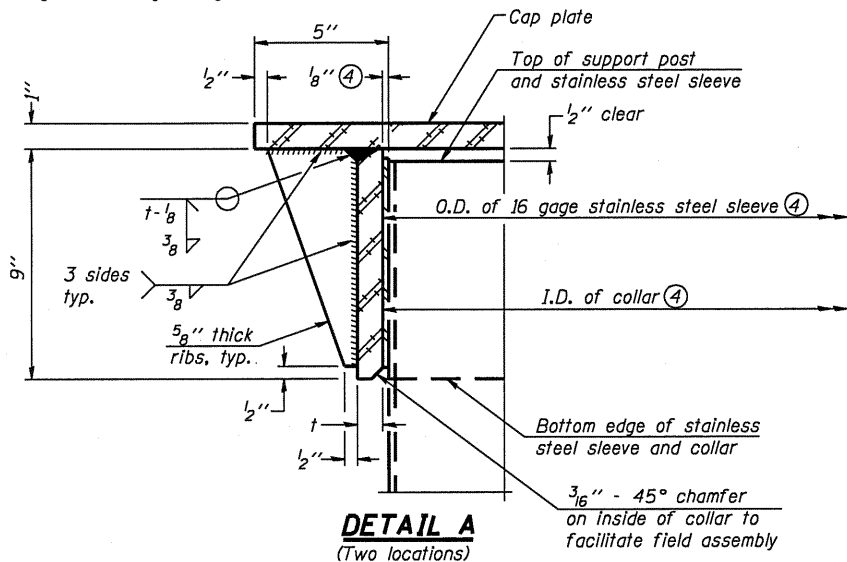
OSC-A-D		7-1-10		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CANTILEVER SIGN STRUCTURE DAMPING DEVICE		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NAME *	USER NAME *	DESIGNED -	REVISED -					VAR	D-3 OVD SIN STR REPL 2011-08	VAR	25	17
c:\pwwork\p1\dot\woodshankr1\d8235124\6131-Details.dgn	woodshankr1	RON WOODSHANK	---					SCALE: _____ SHEET NO. 9 OF 9 SHEETS STA. _____ TO STA. _____		CONTRACT NO. 46131		ILLINOIS
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PLOT DATE = Sep 23, 2010 - 09:37:29 AM	DATE -	---	---									



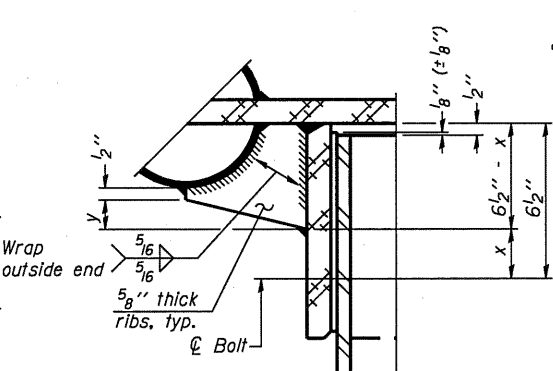
Holes in galvanized steel post and aluminum collar = bolt $\phi + 1/16$ ".
Holes in stainless steel sleeve = bolt $\phi + 3/16$ ".

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

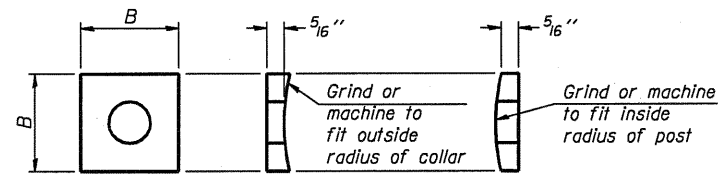
SECTION B-B
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.



DETAIL A
(Two locations)



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

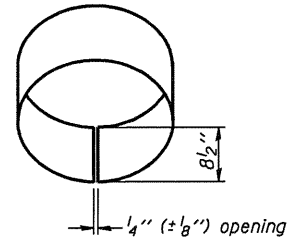


CONTOURED WASHERS

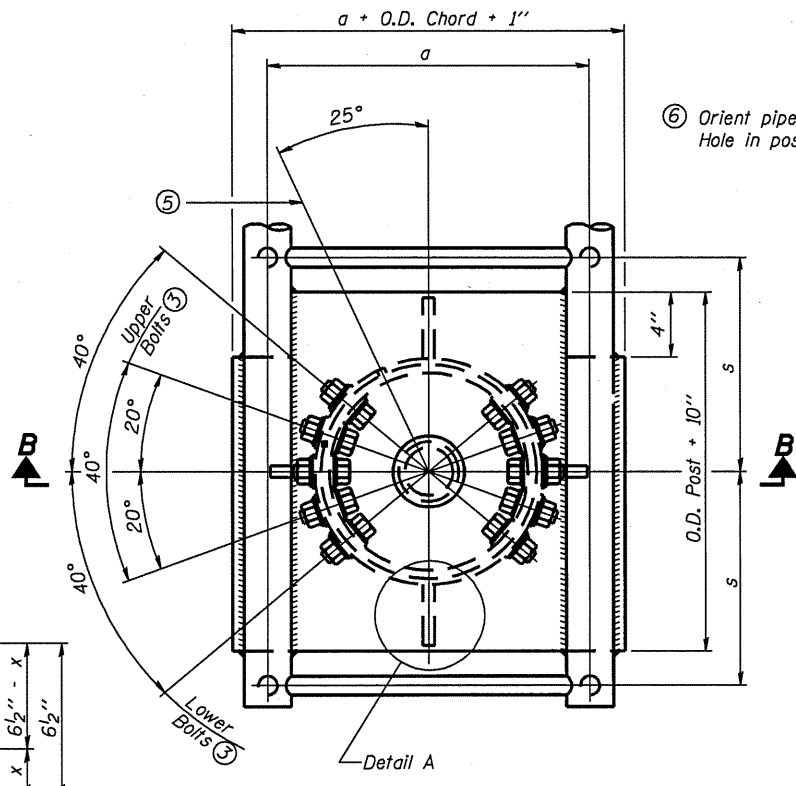
Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"

DETAIL OF STAINLESS STEEL SLEEVE

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

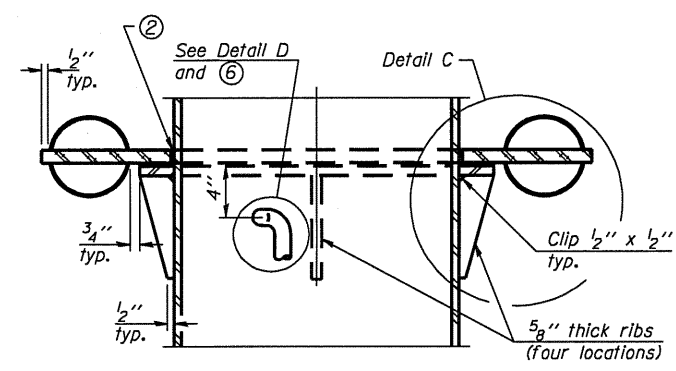


DETAIL D

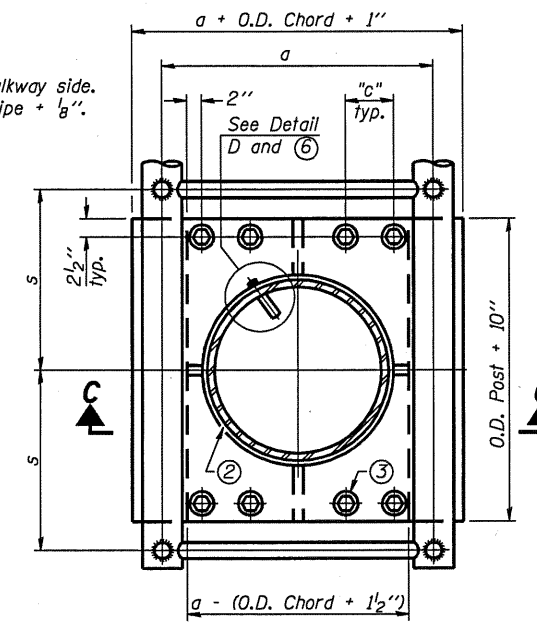


PLAN VIEW - TOP OF COLUMN

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

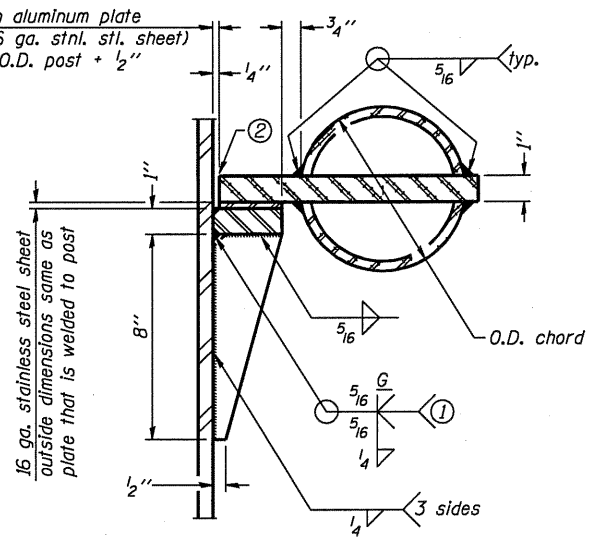


SECTION C-C



SECTION THRU POST ABOVE LOWER CHORDS

Hole in aluminum plate (and 16 ga. stnl. stl. sheet) to be O.D. post + 1/2"



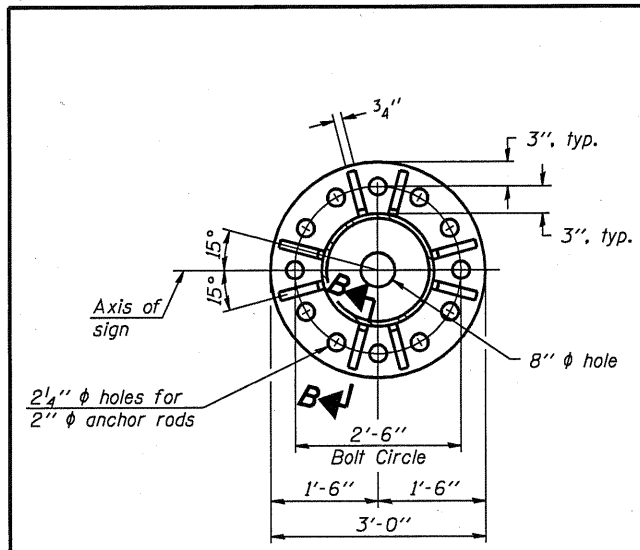
DETAIL C

- 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.
- 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.

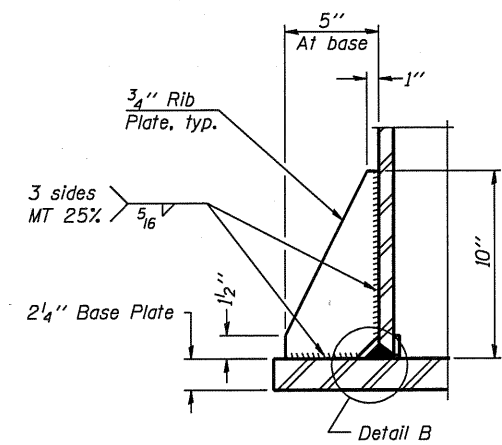
Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" ϕ (83#1/')	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" ϕ (125#1/')	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24"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

OSC-A-3

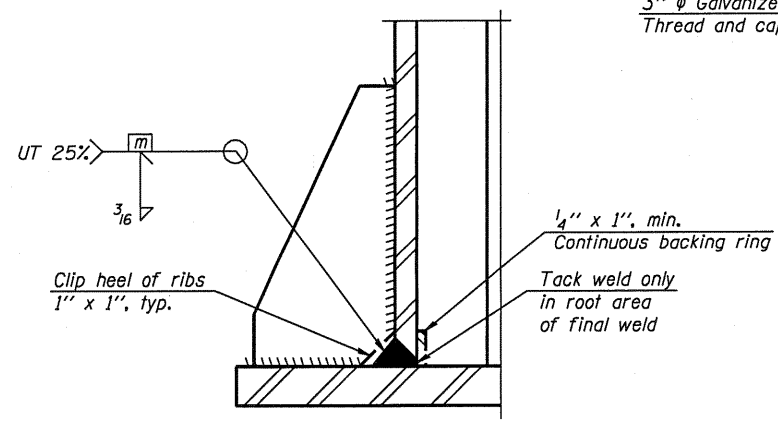
7-1-10



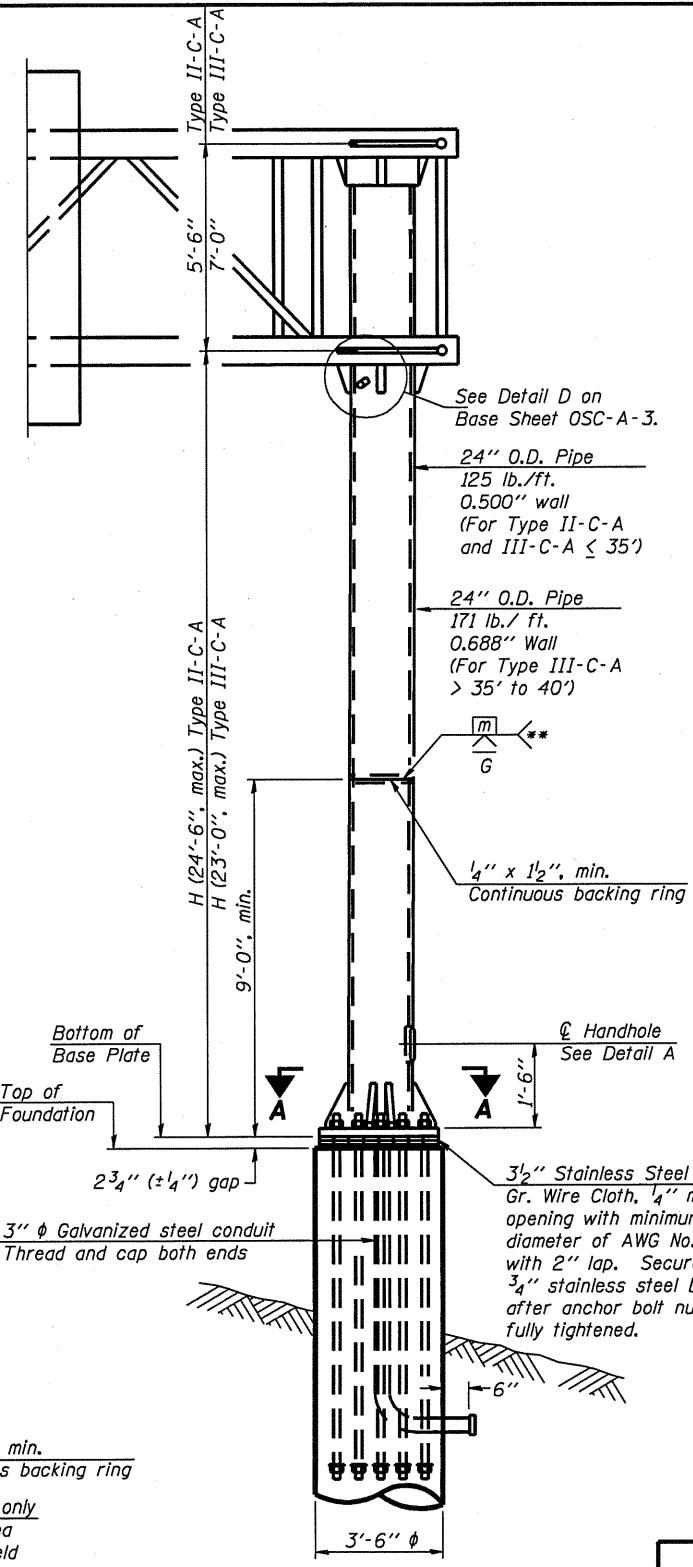
SECTION A-A



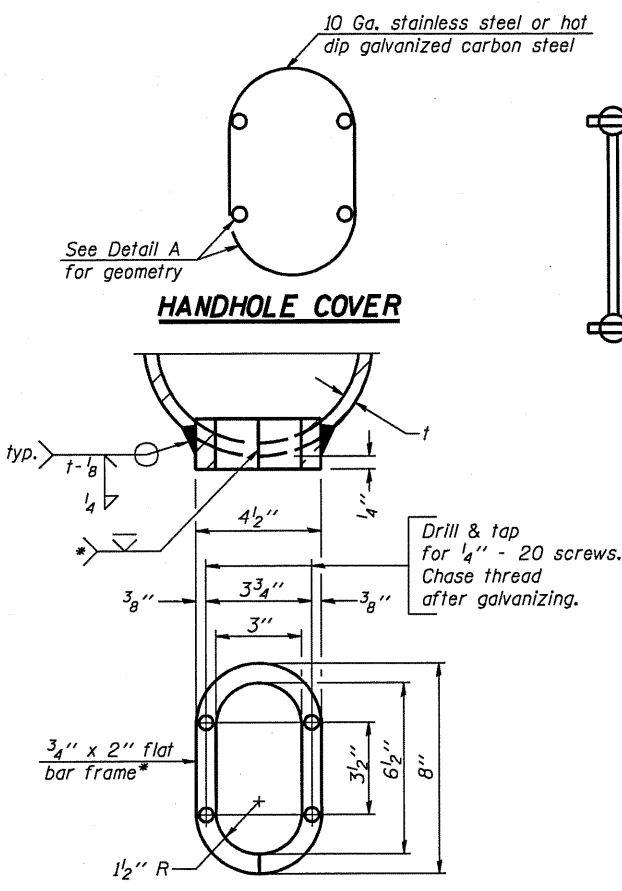
SECTION B-B



DETAIL B
(Typical rib)



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

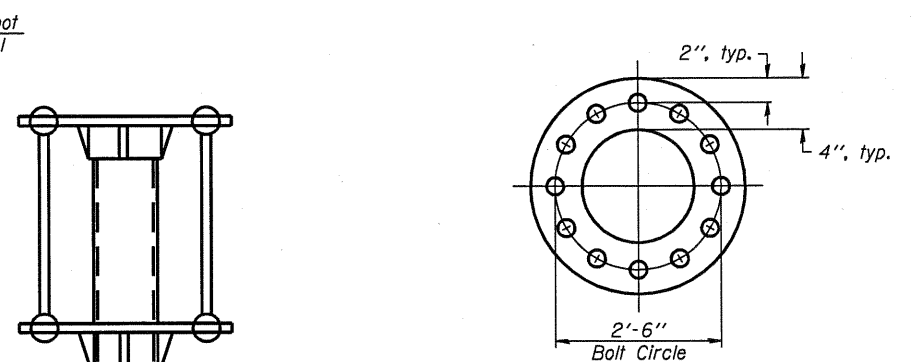


DETAIL A

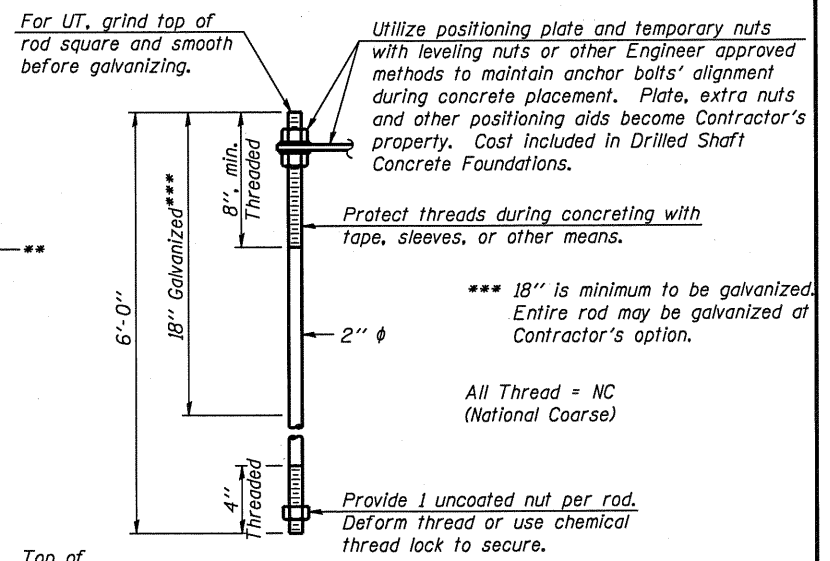
- * Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.
- ** Butt welded joint in post is only allowed for post heights (H) over 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.

Structure Number	Station	H
3C0321080L118.7	1548+40	23'-9"
3C0381057R268.0	1442+55	23'-0"
3C0381057L269.3	1374+50	23'-0"

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

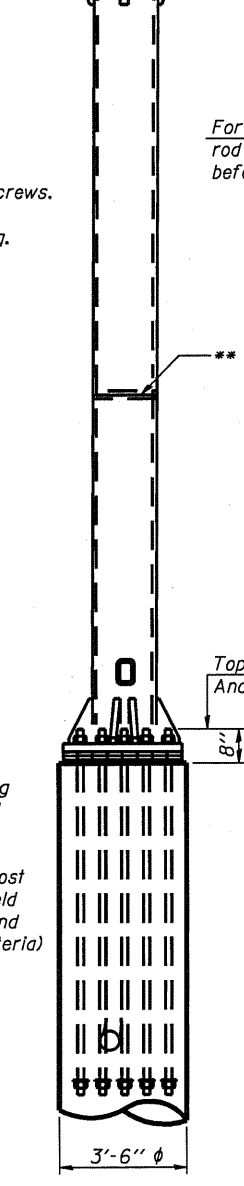


SUGGESTED POSITIONING PLATE



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" diameter 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.



SIDE ELEVATION

OSC-A-5

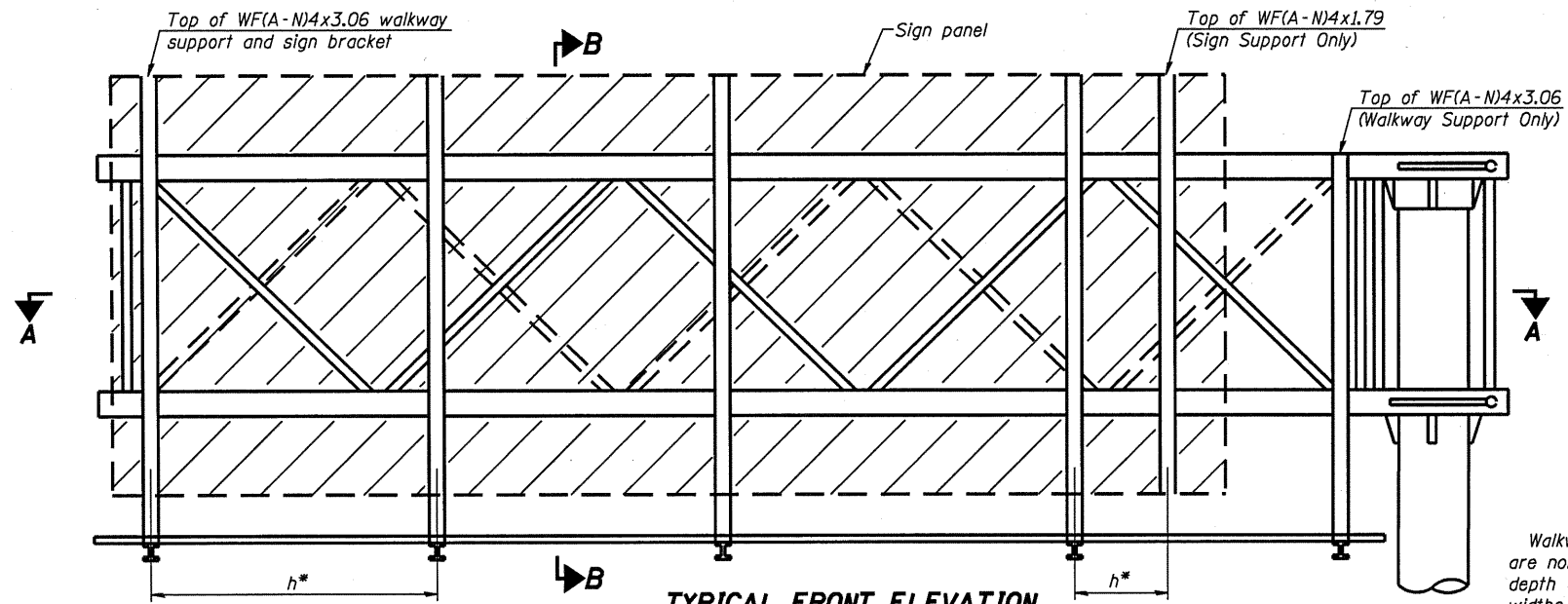
7-1-10

FILE NAME *	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED -
ai:\pwork\pwork\woodshankr1\d02351241-6131-Details.dgn		DRAWN - RON WOODSHANK	REVISED -
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = Sep 23, 2010 - 09:38:03 AM		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

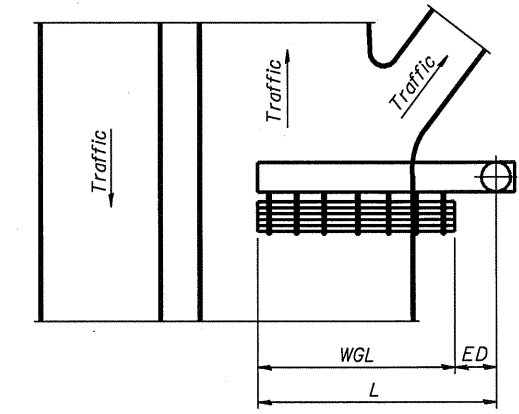
CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

F.A.I. R.T.E. VAR	SECTION D-3 OVD SIN STR REPL 2011-08	COUNTY VAR	TOTAL SHEETS 25	SHEET NO. 19
SCALE: SHEET NO. 4 OF 9 SHEETS		STA. TO STA.		CONTRACT NO. 46131
ILLINOIS				

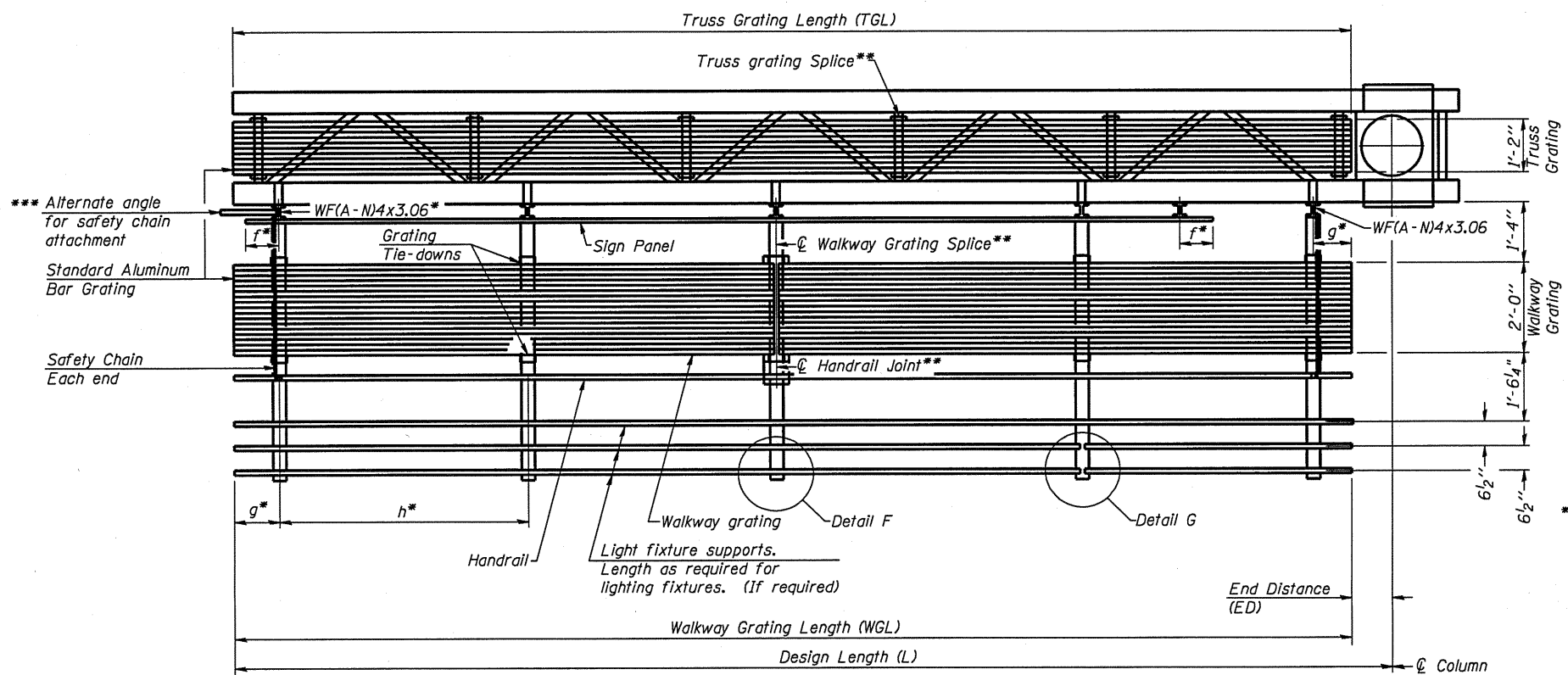


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard widths.



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



SECTION A-A

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

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.

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

Structure Number	Station	WGL	ED	TGL
3C0381057L269.3	1374+50	17'-0"	13'-0"	28'-6"

Notes:
 * Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
 g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)
 h = 6'-0" maximum (center to center 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.

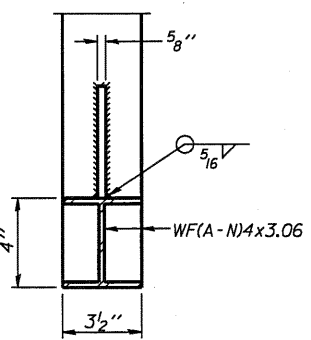
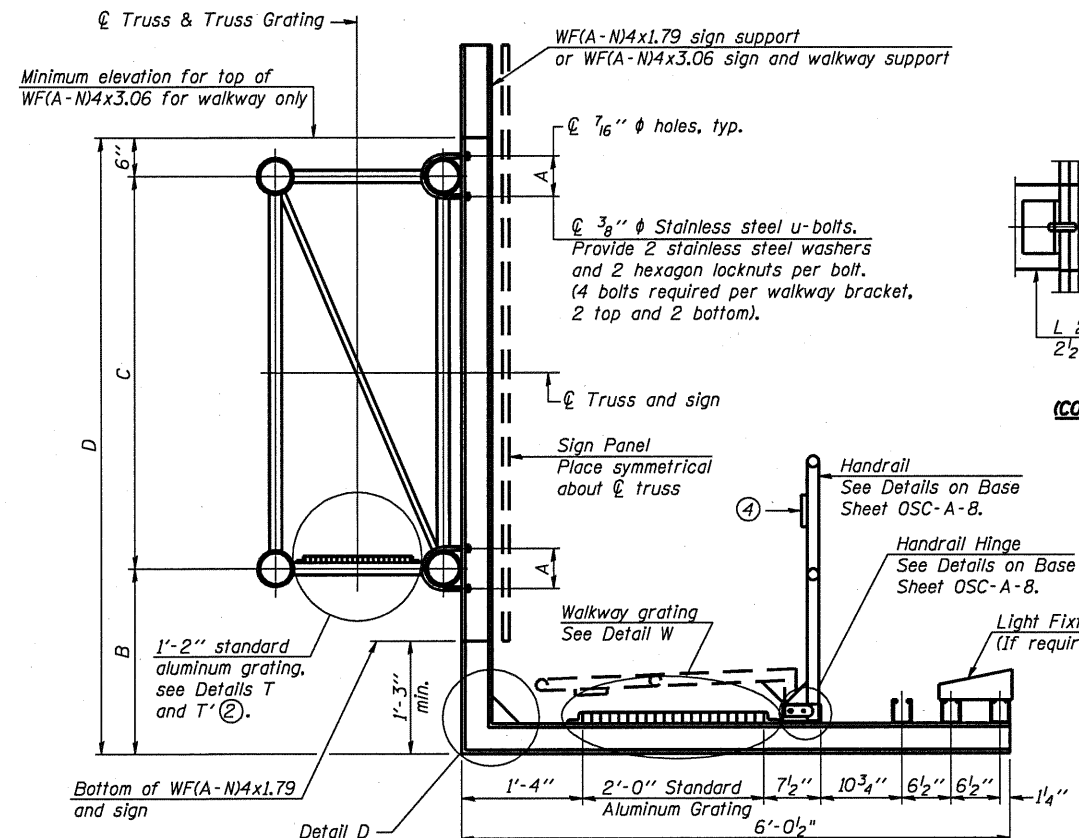
BRACKET TABLE

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

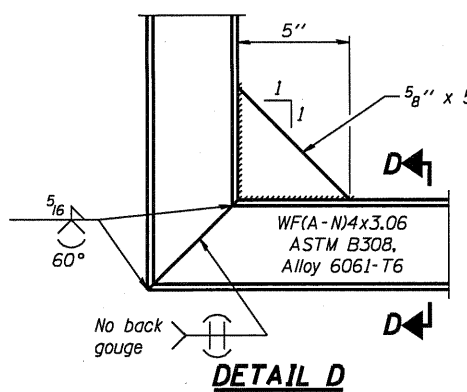
LOCATIONS 3 AND 4
THIS SHEET FOR INFORMATION ONLY

OSC-A-6 7-1-10

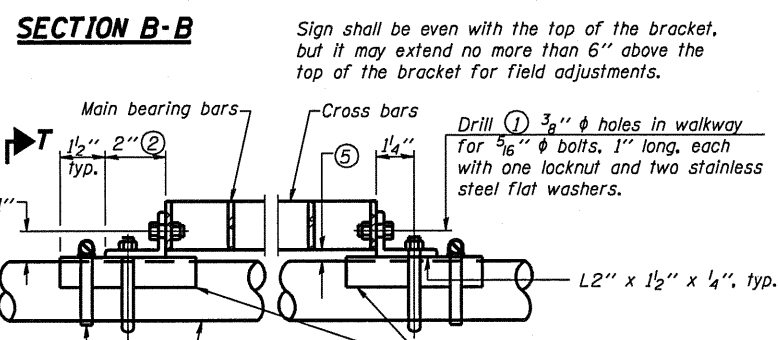
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PLOT SCALE * 100.0000 / IN.	CHECKED - ---	DRAWN - RON WOODSHANK	REVISED - -----			SCALE: -----	SHEET NO. 5 OF 9 SHEETS	STA. ----- TO STA.	ILLINOIS	CONTRACT NO. 46131	
PLOT DATE * Sep 23, 2010 - 09:38:31 AM	DATE - -----	REVISOR - -----	REVISOR - -----								



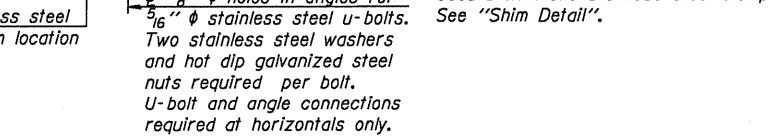
SECTION D-D



OSC-A-7 7-1-10



SECTION B-B

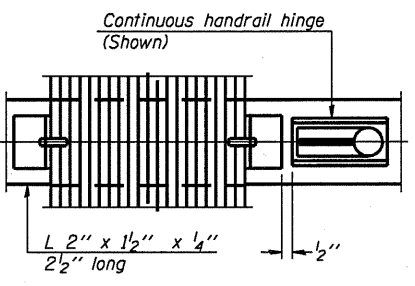


DETAIL T
(Continuous Truss grating)

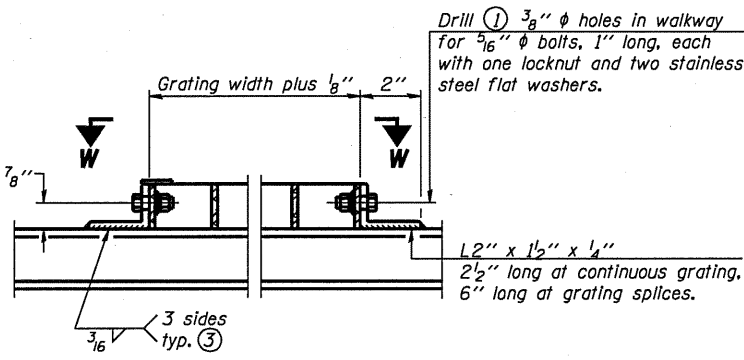
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

Drill 1/8" holes in walkway for 5/16" bolts, 1" long, each with one locknut and two stainless steel flat washers.

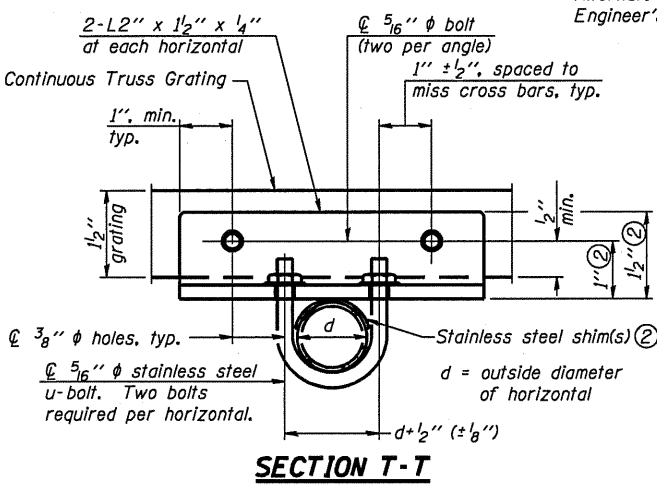
Stainless steel shim(s). If needed, place on top of horizontals and horizontal diagonals. Secure with one stainless steel clamp per side. See "Shim Detail".



(CONTINUOUS WALKWAY GRATING)



DETAIL W
(Walkway grating)



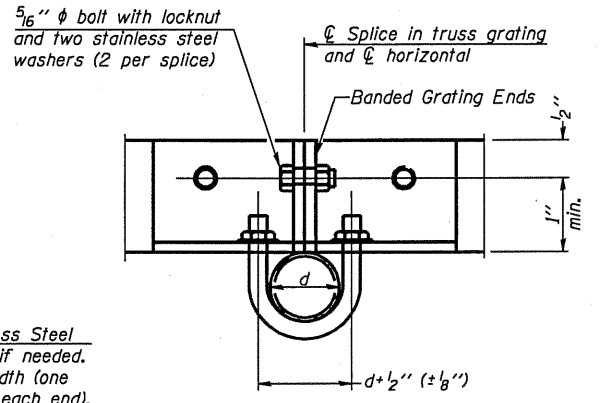
SECTION T-T

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

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

OR

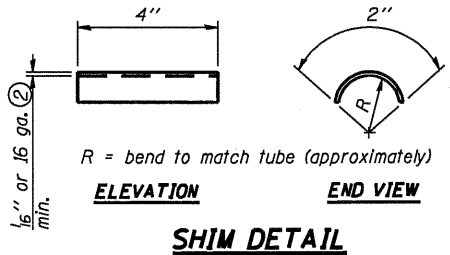
Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221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



SECTION T'-T'

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.

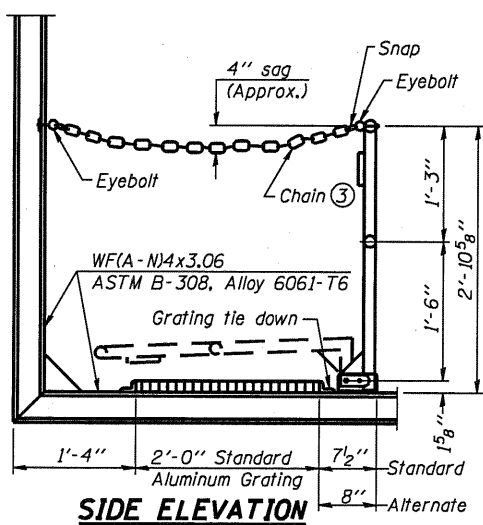


SHIM DETAIL

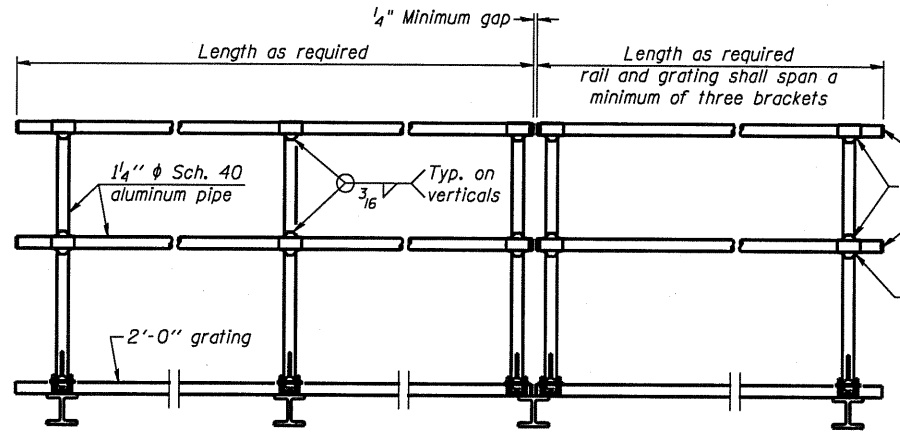
- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided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

Structure Number	Station	A	⑥ B	C	⑥ D
3C0381057L269.3	1374+50	7 5/8"	1'-6"	5'-6"	7'-6"

**LOCATIONS 3 AND 4
THIS SHEET FOR INFORMATION ONLY**



SIDE ELEVATION
(Showing Safety Chain W/O Sign)



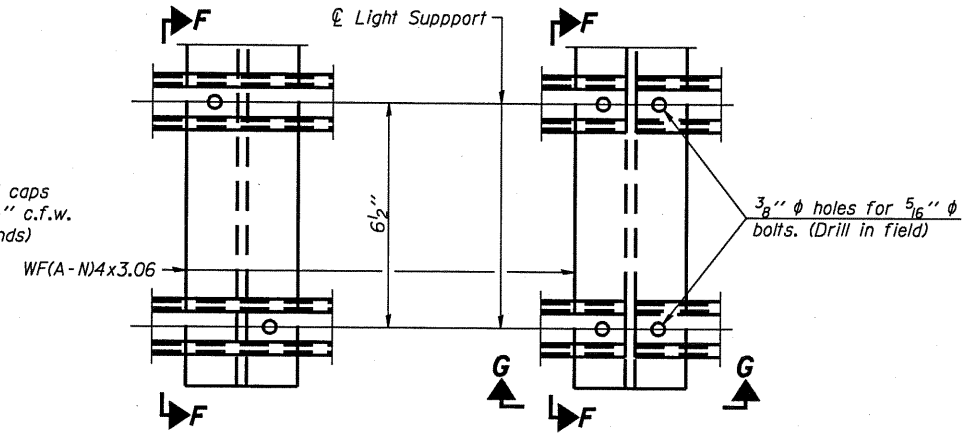
FRONT ELEVATION

HANDRAIL DETAILS

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

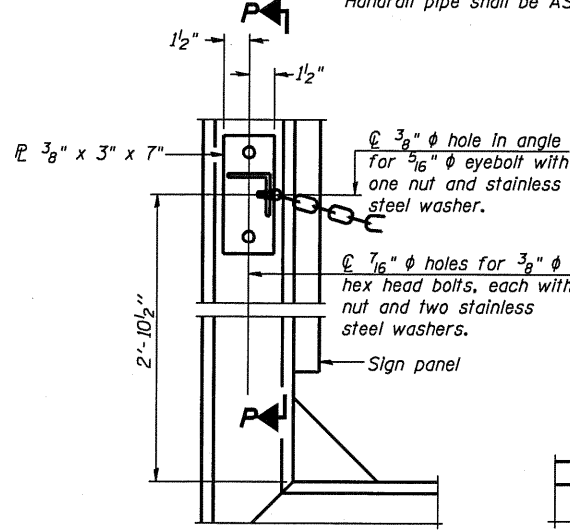
① Install standard force-fit end caps or weld 3/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)

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



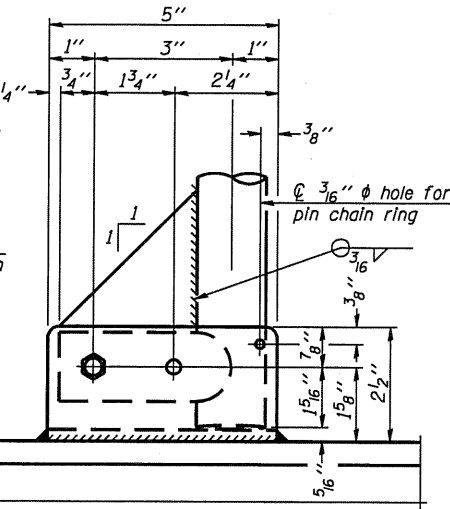
DETAIL F

DETAIL G

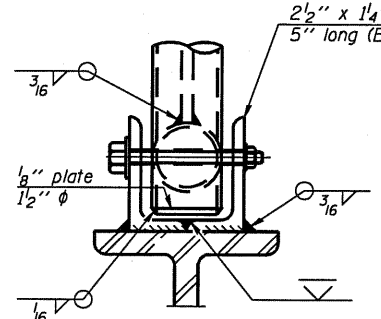


ALTERNATE SAFETY CHAIN ATTACHMENT

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

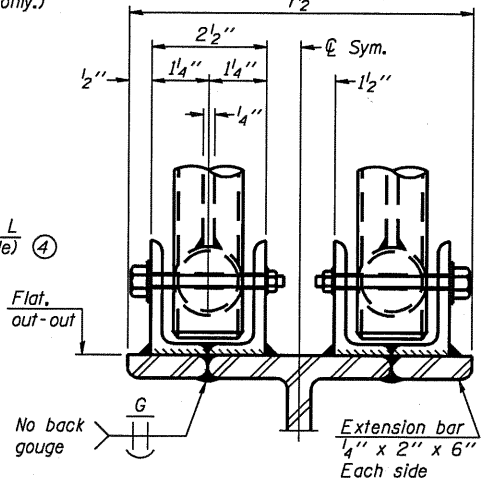


SIDE ELEVATION



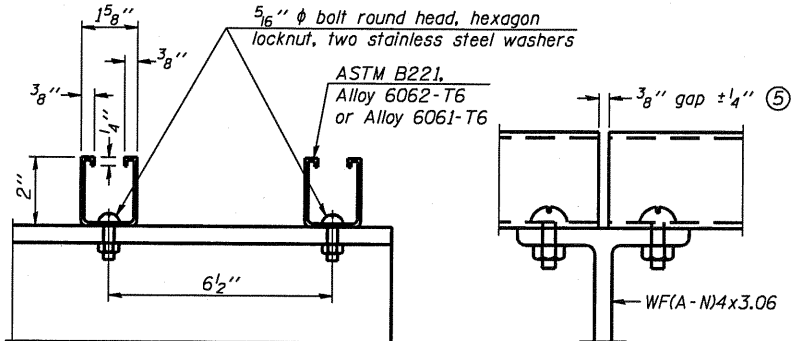
FRONT ELEVATION

Details not shown same as "ELEVATION" at right.



ELEVATION AT HANDRAIL JOINT

Details not shown same as "FRONT ELEVATION"

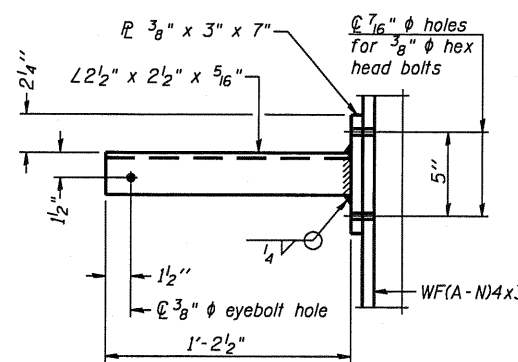


SECTION F-F

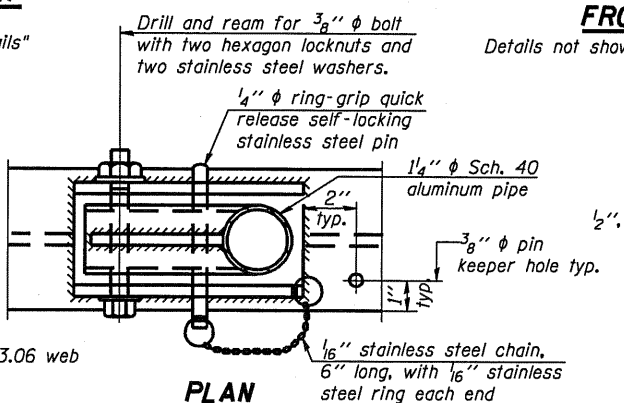
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

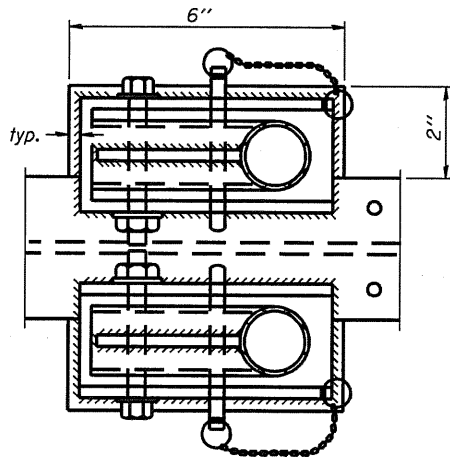
⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



SECTION P-P

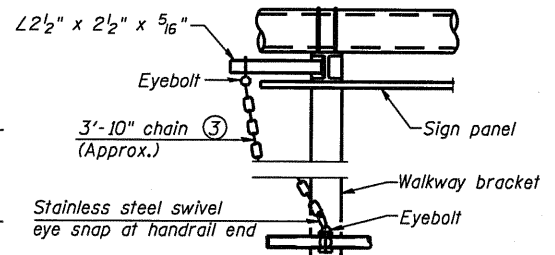


DETAIL E HANDRAIL HINGE



PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"

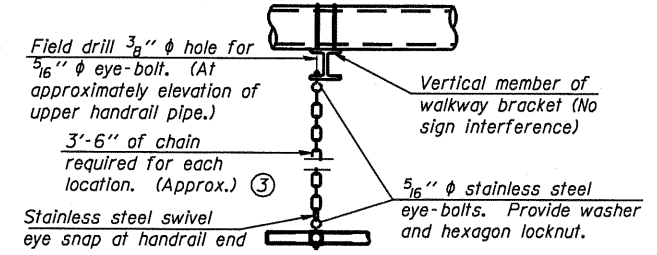


ALTERNATE SAFETY CHAIN ATTACHMENT

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

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

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



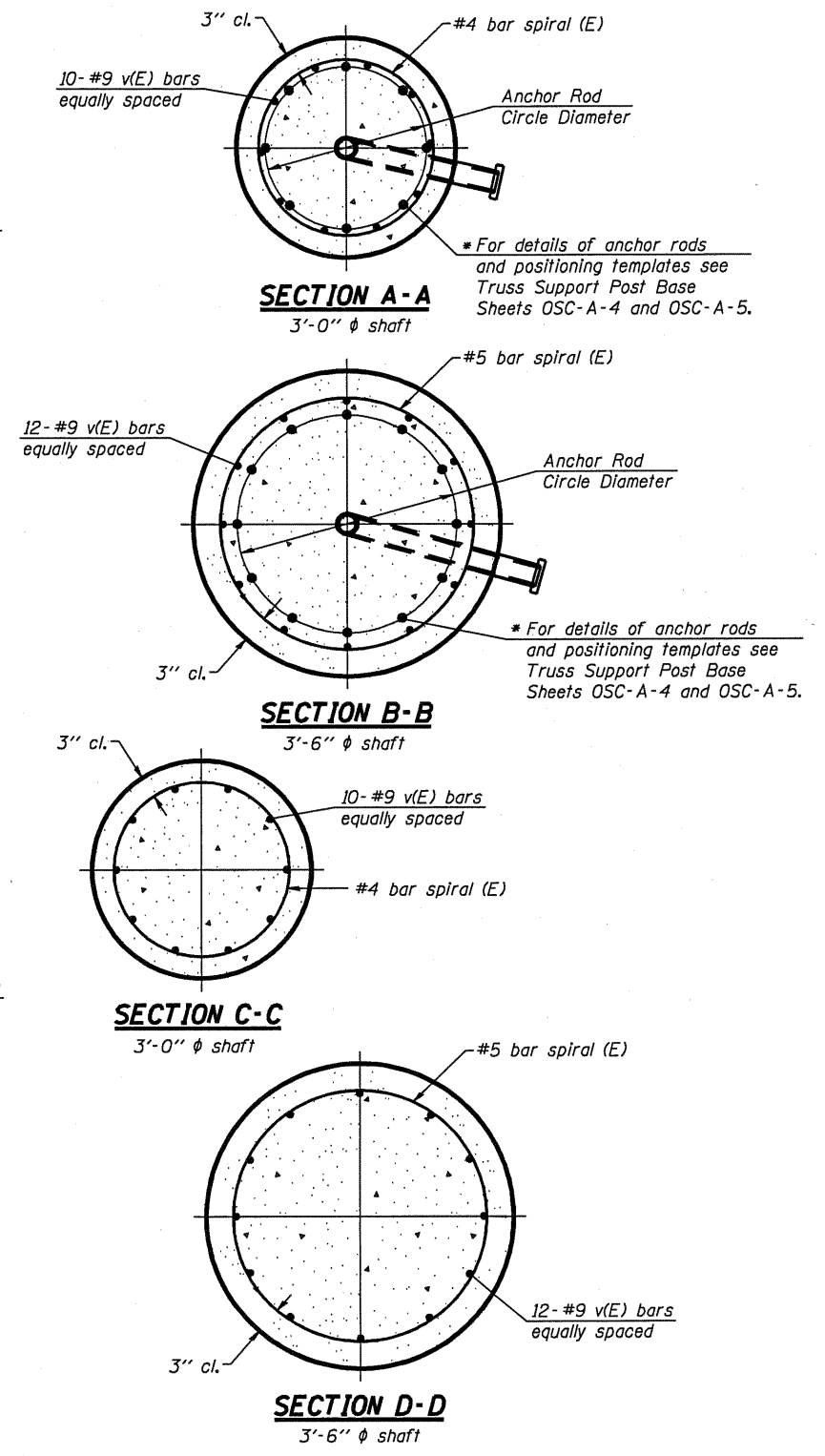
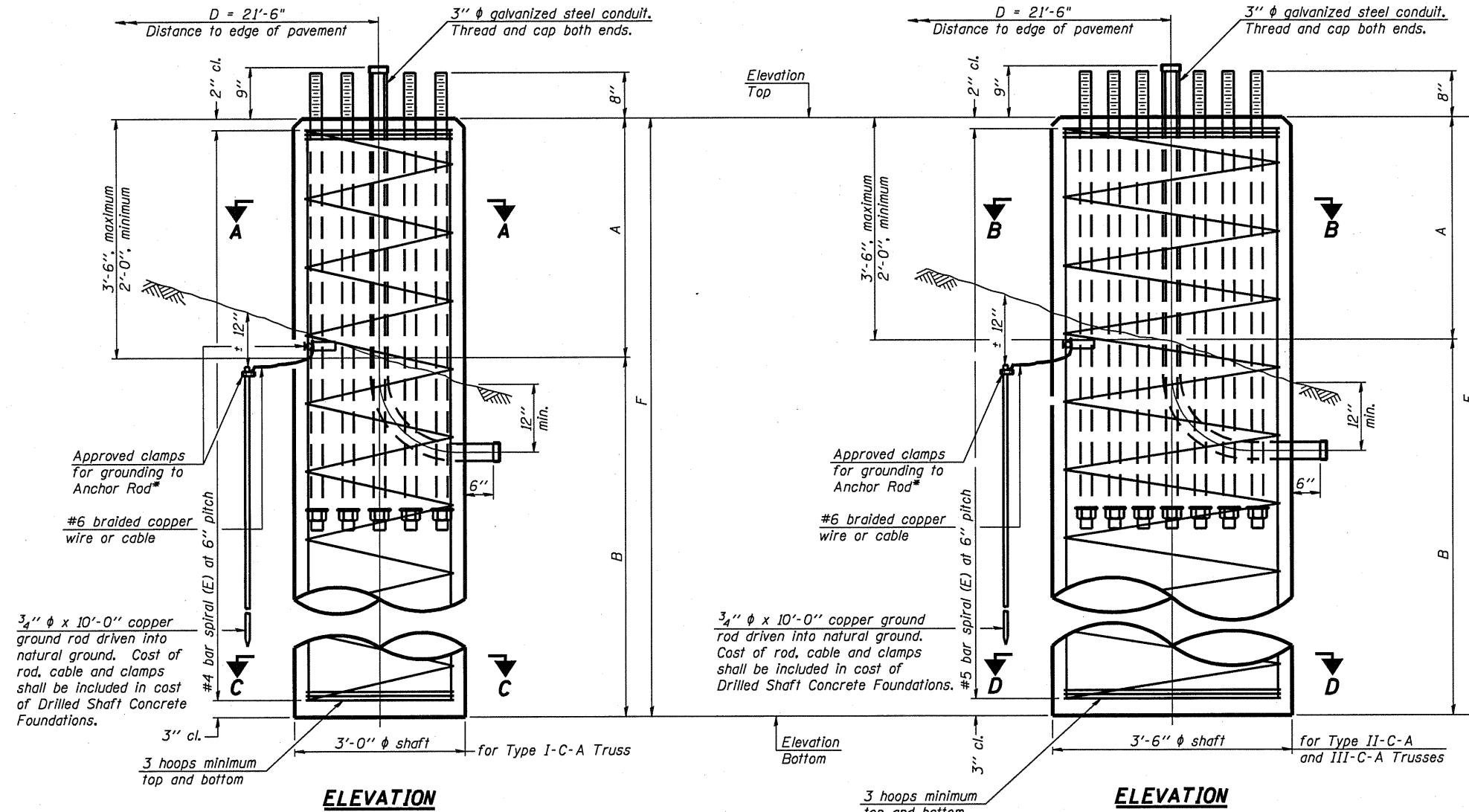
SAFETY CHAIN

One required for each end of each walkway.

**LOCATIONS 3 AND 4
THIS SHEET FOR INFORMATION ONLY**

<p>OSC-A-8 7-1-10</p>		<p>DESIGNED - RON WOODSHANK</p>		<p>REVISED -</p>		<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>		<p>CANTILEVER SIGN STRUCTURES - HANDRAIL DETAILS ALUMINUM TRUSS & STEEL POST</p>		<p>F.A.I. SECTION COUNTY TOTAL SHEETS NO. RTE. VAR D-3 OVD SIN STR REPL 2011-08 VAR 25 22</p>	
<p>FILE NAME: c:\pwwork\pwwork\woodshankr1\d0235124\6131-Detail1.dgn</p>		<p>DRAWN - RON WOODSHANK</p>		<p>REVISED -</p>		<p>SCALE: SHEET NO. 7 OF 9 SHEETS STA. TO STA.</p>		<p>CONTRACT NO. 46131</p>		<p>ILLINOIS</p>	
<p>PLOT SCALE = 1/8" = 1'-0"</p>		<p>CHECKED -</p>		<p>REVISED -</p>		<p>DATE</p>		<p>SCALE: SHEET NO. 7 OF 9 SHEETS STA. TO STA.</p>		<p>CONTRACT NO. 46131</p>	
<p>PLOT DATE = Sep 23, 2010 - 8:39:04 AM</p>		<p>DATE</p>		<p>REVISED -</p>		<p>DATE</p>		<p>SCALE: SHEET NO. 7 OF 9 SHEETS STA. TO STA.</p>		<p>CONTRACT NO. 46131</p>	

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



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".

Truss Type	Post Base Sheet	Maximum Cantilever length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (ft)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	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

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
3C0321080L118.7	1548+40	II-C-A	3'-6"	99.23	77.23		3'-0"	19'-0"	22'-0"	6.8
3C0381057R268.0	1442+55	II-C-A	3'-6"	99.95	80.95	4.7	2'-0"	17'-0"	19'-0"	6.1
3C0381057L269.3	1374+50	II-C-A	3'-6"	99.92	79.92	3.3	3'-0"	17'-0"	20'-0"	6.1

OSC-A-9

7-1-10



Illinois Department of Transportation
Division of Highways
District #3, Ottawa

Page 1 of 1
SOIL BORING LOG
Date 3/18/10

ROUTE I-57 DESCRIPTION South Bound Buckley Rest Area Overhead Sign (MP 269.3) LOGGED BY Larry Myers

SECTION _____ LOCATION SE 14, SEC. 4, TWP. 24N, RNG. 10E

COUNTY Iroquois DRILLING METHOD _____ HAMMER TYPE Hollow Stem Auger CME Automatic _____

STRUCT. NO. 3C0381057R269.3
Station 1374+43.98
BORING NO. 1
Station 1374+42.98
Offset 48.00ft Rt. (EOP)
Ground Surface Elev. 707.92 ft

D	B	U	M	Surface Water Elev.	D	B	U	M
E	L	C	O	ft	E	L	C	O
P	O	S	I	Stream Bed Elev.	P	O	S	I
T	W	S	T	Groundwater Elev.:	T	W	S	T
H	S	Qu	T	First Encounter	H	S	Qu	T
(ft)	(6")	(tsf)	(%)	Upon Completion	(ft)	(6")	(tsf)	(%)
				After _____ Hrs.				

Soil Description	Depth (ft)	Bulge (6")	UCS (tsf)	Penetration (%)	Soil Description	Depth (ft)	Bulge (6")	UCS (tsf)	Penetration (%)
Augered, Black, Silty Clay Loam, Fill with Gravel Pieces	702.92	-5			Very Stiff, Gray, Silty Loam/Silty Clay Loam, Till (continued)	3			
						4	2.5	20.5	
						5	B		
Very Stiff, Gray & Brown, Silty Clay	700.92					3			
						4	2.4	24.8	
						5	B		
Very Stiff, Brown & Gray, Silty Clay Loam, Till	698.42				End of Boring				
Hard, Brown & Gray, Silty Clay Loam, Till	695.42								
Hard/Very Stiff, Gray, Silty Clay Loam, Till	-15								
Very Stiff, Gray, Silty Loam/Silty Clay Loam, Till	690.42								

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)

FILE NAME *	USER NAME * woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORINGS - LOCATION 3 AND 4	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\woodshankr1\d0235124\6131-Details.dgn	DRAWN - RON WOODSHANK	REVISED -	VAR			D-3 OVD SIN STR REPL 2011-08	VAR	25	25	
PLOT SCALE = 100.0000 / IN.	CHECKED -	REVISED -	CONTRACT NO. 46131							
PLOT DATE = Sep 23, 2010 - 09:40:02 AM	DATE -	REVISED -	SCALE: _____			SHEET NO. 2 OF 2 SHEETS	STA. _____ TO STA. _____	ILLINOIS		