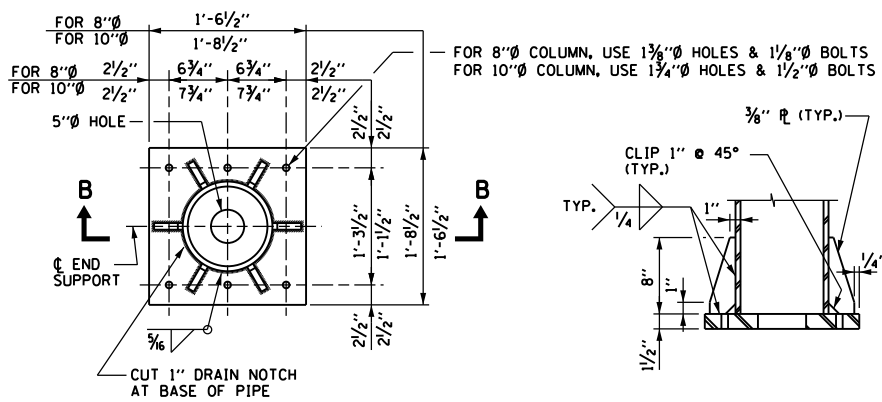
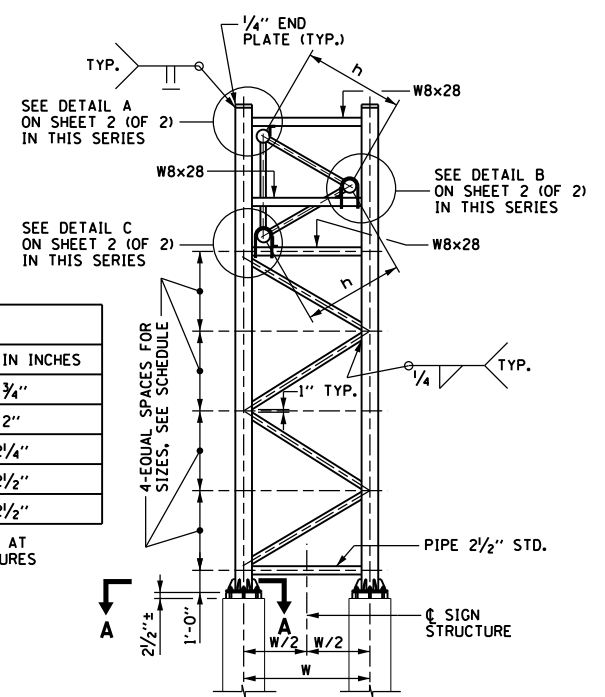
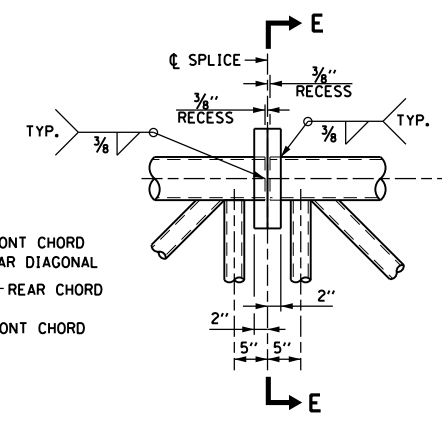
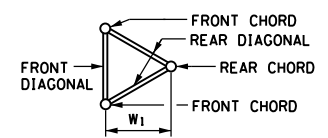
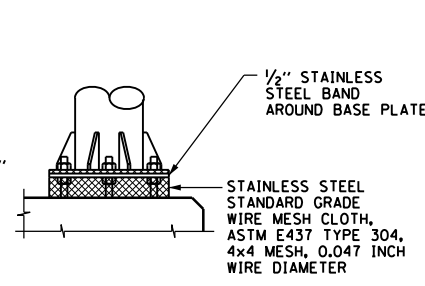


CAMBER	
SPAN IN FEET	CAMBER IN INCHES
60 THRU 70	1 3/4"
71 THRU 80	2"
81 THRU 100	2 1/4"
101 THRU 110	2 1/2"
111 THRU 120	2 1/2"

PROVIDE THE ABOVE CAMBER AT MIDDLE OF SPAN OF STRUCTURES



**NOTE:**  
 DIAGONALS FOR STEEL END SUPPORTS ARE:  
 2" STD. PIPE FOR 8"Ø COLUMNS  
 2 1/2" STD. PIPE FOR 10"Ø COLUMNS



TYPICAL END SUPPORT ELEVATION

TABLE A			
CHORD SIZE E	F	G	N
3 1/2"Ø & 3 3/4"Ø	8 1/2"	11 1/2"	6
4 1/4"Ø, 4 3/4"Ø, 5"Ø	9 1/4"	12 1/4"	8
6"Ø & 6 1/2"Ø	11"	14"	10

N=MINIMUM NUMBER OF BOLTS

BOLT CIRCLE FOR 5/8"Ø HOLES AND 7/8"Ø STAINLESS STEEL (S.S.) BOLTS WITH HEX LOCKNUTS & S.S. WASHERS UNDER HEAD & NUT, FOR E, F, G & N, SEE TABLE A. REQUIRED MIN. BOLT TENSION IS 12,500#. 7/8"Ø STUDS SHALL BE SUBSTITUTED WHEN DIAGONALS INTERFERE WITH BOLT LOCATION.

TRUSS NO.	DIMENSIONS							DL (TRUSS) DEFLECTION	ALUMINUM TRUSS				STEEL END SUPPORT			FOUNDATION TYPE
	TRUSS SPAN L	P	N	h	W1	W	MIDDLE SEGMENT OR END SEGMENT				PIPE COLUMN (NOMINAL DIAMETER)					
							CHORD (O.D.)		DIAGONAL (O.D.)		H OR H1	H OR H1	H OR H1			
							FRONT		REAR	FRONT				REAR		
T-60	60'-0"	6'-8"	2'-8"	3'-4"	2'-10 5/8"	4'-4 1/2"	1 3/16"	3 1/2"Ø x 1/4"	3 3/4"Ø x 1/4"	2"Ø x 3/16"	2"Ø x 3/16"	22'-0" TO 24'-0" (MAX.)	25'-0" TO 27'-0" (MAX.)	28'-0" TO 29'-0" (MAX.)	80	
T-65	65'-0"	7'-4"	2'-6"	3'-8"	3'-2 1/8"	4'-8"	1 3/8"	3 1/2"Ø x 1/4"	3 3/4"Ø x 1/4"	2"Ø x 3/16"	2"Ø x 3/16"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	80	
T-70	70'-0"	8'-0"	2'-4"	4'-0"	3'-5 5/8"	5'-0"	1 1/8"	3 3/4"Ø x 1/4"	3 3/4"Ø x 1/4"	2"Ø x 3/16"	2"Ø x 3/16"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	80	
T-75	75'-0"	8'-6"	2'-10"	4'-3"	3'-8 1/4"	5'-3"	1 1/8"	4 1/4"Ø x 1/4"	4 3/4"Ø x 3/8"	2"Ø x 3/16"	2"Ø x 3/16"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	80	
T-80	80'-0"	9'-0"	3'-4"	4'-6"	3'-10 3/4"	5'-6"	2"	4 3/4"Ø x 3/8"	5"Ø x 1/4"	2 1/4"Ø x 3/16"	2"Ø x 3/16"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	80	
T-85	85'-0"	9'-6"	3'-10"	4'-9"	4'-1 3/8"	5'-9"	2 1/16"	5"Ø x 1/4"	5"Ø x 3/16"	2 1/4"Ø x 3/16"	2 1/4"Ø x 3/16"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	100	
T-90	90'-0"	10'-0"	4'-4"	5'-0"	4'-4"	5'-11 1/2"	2 1/8"	5"Ø x 3/16"	5"Ø x 3/16"	2 1/2"Ø x 3/16"	2 1/4"Ø x 3/16"	10" STD. (40.48#/FT.)	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	100	
T-95	95'-0"	10'-6"	4'-10"	5'-3"	4'-6 5/8"	6'-2"	2 3/16"	5"Ø x 3/16"	5"Ø x 3/16"	2 1/2"Ø x 3/16"	2 1/2"Ø x 3/16"	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	100	
T-100	100'-0"	11'-4"	4'-0"	5'-8"	4'-10 7/8"	6'-7 1/2"	2 1/4"	6"Ø x 1/4"	6"Ø x 1/4"	2 3/4"Ø x 3/16"	2 1/2"Ø x 3/16"	10" STD. (40.48#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	100	
T-105	105'-0"	12'-0"	3'-10"	6'-0"	5'-2 3/8"	6'-11"	2 3/16"	6"Ø x 3/16"	6"Ø x 3/16"	3"Ø x 3/16"	2 3/4"Ø x 3/16"	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	120	
T-110	110'-0"	12'-6"	4'-4"	6'-3"	5'-5"	7'-1 1/2"	2 3/8"	6"Ø x 3/16"	6"Ø x 3/16"	3"Ø x 3/16"	2 3/4"Ø x 3/16"	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	120	
T-115	115'-0"	13'-0"	4'-10"	6'-6"	5'-7 5/8"	7'-4 1/2"	2 1/8"	6 1/2"Ø x 3/16"	6"Ø x 3/16"	3 1/4"Ø x 1/4"	3"Ø x 3/16"	10" X.S. (54.74#/FT.)	10" X.S. (54.74#/FT.)	10" X.S. (104.13#/FT.)	120	
T-120	120'-0"	13'-8"	4'-8"	6'-10"	5'-11"	7'-8"	2 3/8"	6 1/2"Ø x 3/16"	6 1/2"Ø x 3/16"	3 1/2"Ø x 3/16"	3"Ø x 3/16"	10" X.S. (54.74#/FT.)	10" X.S. (104.13#/FT.)	10" X.S. (104.13#/FT.)	120	

- NOTES:**
- DESIGN SPECIFICATIONS:**
- 2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 5TH EDITION WITH 2010 INTERIMS.
- LOADING:**
- TRUSSES ARE DESIGNED FOR A NINE FOOT DEEP SIGN PANEL OVER 75% OF SPAN LENGTH, BOTH END SUPPORTS ARE DESIGNED FOR 60% OF THE TOTAL LOAD.
  - WIND LOADING SHALL BE A MINIMUM OF 35 PSF ON SIGN PANELS AND 10 PSF ON GROSS AREAS DEFINED BY THE PERIMETER OF TRUSS MEMBERS NOT COVERED BY SIGN PANEL AREAS.
  - THE AASHTO GROUP II AND III ALLOWABLE STRESS SHALL BE 133% (ALLOWABLE STRESS DESIGN).
- CONSTRUCTION SPECIFICATIONS:**
- ALL MATERIALS, EXCEPT AS SHOWN, FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 733 OF THE LATEST IDOT STANDARD SPECIFICATIONS.

CONTRACT 60I31 SHEET 940 OF 963  
 SHEET 1 OF 2

APPROVED *Paul Kovacs*  
 CHIEF ENGINEER DATE 2-7-2012

DATE	REVISIONS
2-7-2012	REVISED FOUNDATIONS AND REVISED NOTES.

**Illinois Tollway**  
*Open Roads for a Faster Future*

OVERHEAD SIGN STRUCTURE  
 SPAN TYPE, ALUMINUM

STANDARD F1-01