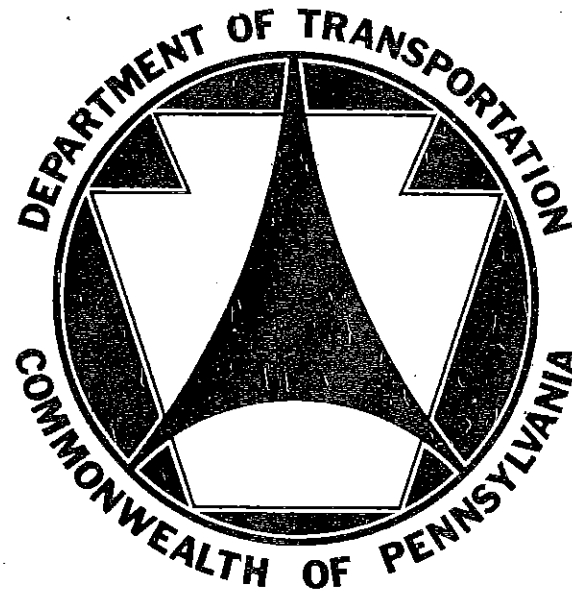


TC-7700 SERIES

TC-7717

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION**

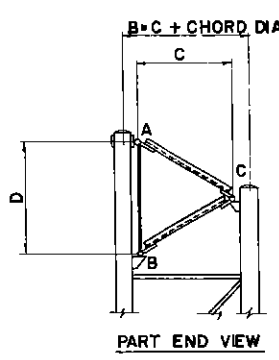
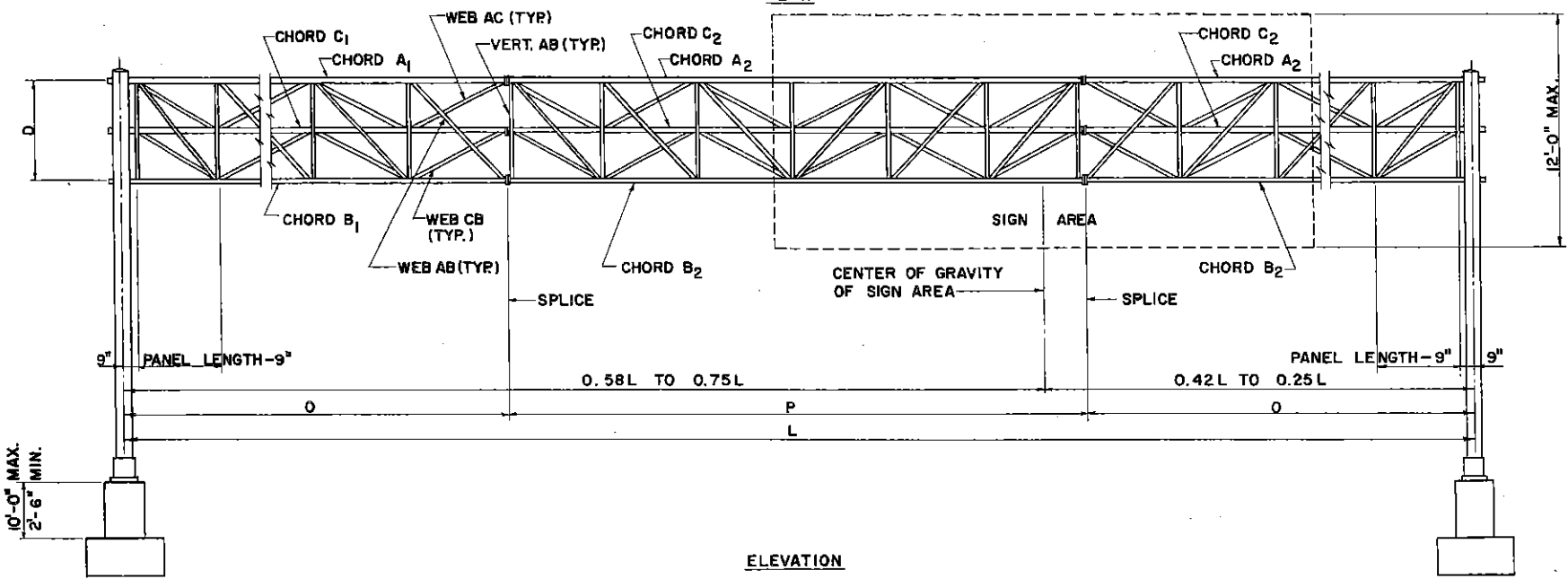
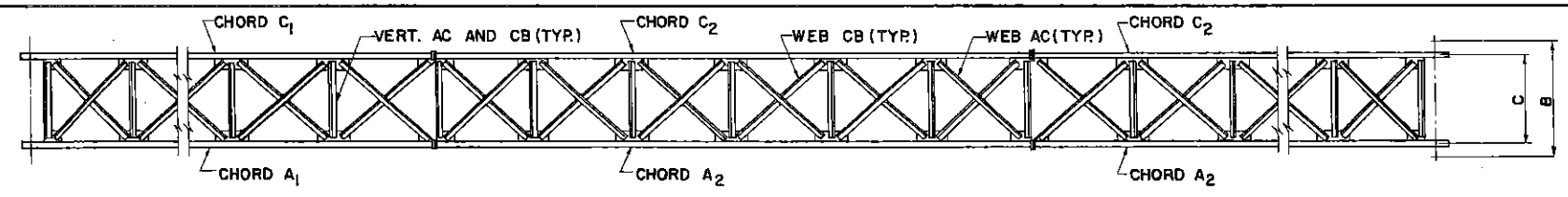


**TRAFFIC STANDARDS
SIGNING**

~~REVISION~~
1-11-73

Full Set

DISTRICT	COUNTY	ROUTE	SECTION	SHEET



L	O	P	PANEL LENGTH	D	C
OVER 60' TO 70'	7 PANELS	6 PANELS	L/20	3'-6"	3'-0"
OVER 70' TO 80'	5 PANELS	6 PANELS	L/16	5'-0"	4'-4"
OVER 80' TO 90'	6 PANELS	6 PANELS	L/18	5'-0"	4'-4"

NOTES
 SEE SHEET 1 FOR "TYPICAL END VIEWS".
 SEE SHEET 8 FOR GENERAL NOTES.
 SEE SHEET 2 FOR ADDITIONAL NOTES.

L	SIGN AREA	TRUSS MEMBERS											TOWER MEMBERS				PEDESTAL				FOOTING TYPE						
		CHORDS				WEBS			VERTICALS				SHAFTS				WEB	STRUT	E	BARS "P"							
		A1 OR B1	C1	A2 OR B2	C2	AB	AC OR CB	N	AB	AC OR CB	N	H TO 12'	H OVER 12' TO 18'	H OVER 18' TO 24'	H OVER 24' TO 30'	H TO 12'				H OVER 12' TO 18'	H OVER 18' TO 24'	H OVER 24' TO 30'					
OVER 60' TO 70'	150	2 5/8" x .218	2 5/8" x .218	2 5/8" x .218	2 5/8" x .218	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .188	8 5/8" x .188	1 1/2" x .200	1" x .133	7'-0"	18 #4	16 #5	20 #5	18 #6	413	512	612	614	
	200	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .188	8 5/8" x .188	1 1/2" x .200	1" x .133	7'-0"	20 #4	18 #5	22 #5	20 #6	511	513	614	615	
	250	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .188	8 5/8" x .219	1 1/2" x .200	1" x .133	7'-0"	22 #4	20 #5	18 #6	22 #6	512	514	615	616A	
	300	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	6 5/8" x .188	6 5/8" x .219	8 5/8" x .188	8 5/8" x .250	1 1/2" x .200	1" x .133	7'-0"	18 #5	16 #6	20 #6	24 #6	513	614	616A	716	
	350	3 1/2" x .188	3 1/2" x .188	3 1/2" x .188	3 1/2" x .188	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	6 5/8" x .188	6 5/8" x .219	8 5/8" x .188	10 3/4" x .219	2" x .154	1" x .179	7'-0"	20 #5	18 #6	22 #6	20 #7	513	615	616	717	
	400	3 1/2" x .188	3 1/2" x .188	3 1/2" x .188	3 1/2" x .188	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	1" x .133	L2 1/2 x 2 1/2 x 3/16	2-3/4"	6 5/8" x .188	6 5/8" x .219	8 5/8" x .219	10 3/4" x .219	2" x .154	1" x .179	7'-0"	20 #5	20 #6	18 #7	16 #8	514	614	617A	718	
	450																										
	500																										
550																											
600																											
650																											
750	4 1/2" x .188	4 1/2" x .188	4 1/2" x .188	4 1/2" x .188	1" x .133	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1" x .179	L3 x 3 x 3/16	2-7/8"					12 3/4" x .250	2 1/2" x .203	1 1/2" x .200	7'-0"				22 #9					1019A
OVER 70' TO 80'	150	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .188	8 5/8" x .219	2" x .154	1 1/4" x .140	8'-0"	20 #4	26 #4	22 #5	20 #6	512	515	615	616A	
	200	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .188	8 5/8" x .250	2" x .154	1 1/4" x .140	8'-0"	22 #4	20 #5	26 #5	22 #6	513	614	615	716	
	250	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .219	8 5/8" x .188	8 5/8" x .250	2" x .154	1 1/4" x .140	8'-0"	24 #4	22 #5	20 #6	18 #7	513	614	616A	717	
	300	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .219	8 5/8" x .188	8 5/8" x .250	2" x .154	1 1/4" x .140	8'-0"	20 #5	20 #6	24 #6	20 #7	515	616	716	718	
	350	3 1/2" x .188	3 1/2" x .188	3 1/2" x .188	3 1/2" x .188	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .219	10 3/4" x .219	2" x .154	1 1/4" x .140	8'-0"	20 #5	20 #6	24 #6	20 #7	515	616	716	718	
	400	3 1/2" x .188	3 1/2" x .188	3 1/2" x .188	3 1/2" x .188	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .219	10 3/4" x .219	2" x .154	1 1/4" x .140	8'-0"	20 #5	20 #6	24 #6	20 #7	515	616	716	718	
	450																										
	500																										
550																											
600	3 1/2" x .188	3 1/2" x .188	3 1/2" x .216	3 1/2" x .216	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .219	8 5/8" x .188	10 3/4" x .219	10 3/4" x .219	2" x .218	1 1/2" x .200	6'-0"	26 #5	24 #6	22 #7	20 #8	616	717	719	820		
650																											
700	3 1/2" x .188	3 1/2" x .188	3 1/2" x .300	3 1/2" x .300	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"				10 3/4" x .219	10 3/4" x .250	2" x .218	1 1/2" x .200	8'-0"			26 #7	24 #8			918A	920B	
OVER 80' TO 90'	150	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	2 5/8" x .203	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .219	8 5/8" x .188	8 5/8" x .219	2" x .154	1 1/4" x .140	8'-0"	20 #4	26 #4	22 #5	20 #6	512	613	615	715	
	200	2 5/8" x .203	2 5/8" x .203	2 5/8" x .276	2 5/8" x .276	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .219	8 5/8" x .188	8 5/8" x .250	2" x .154	1 1/4" x .140	8'-0"	24 #4	20 #5	18 #6	22 #6	513	614	616	716A	
	250	2 5/8" x .203	2 5/8" x .203	2 5/8" x .276	2 5/8" x .276	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .219	8 5/8" x .188	8 5/8" x .250	2" x .154	1 1/4" x .140	8'-0"	24 #4	22 #5	20 #6	18 #7	513	614	616A	717	
	300	2 5/8" x .203	2 5/8" x .203	2 5/8" x .276	2 5/8" x .276	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .219	10 3/4" x .219	2" x .154	1 1/4" x .140	8'-0"	18 #5	24 #5	22 #6	20 #7	514	615	716	816	
	350																										
	400	2 5/8" x .203	2 5/8" x .203	2 5/8" x .276	2 5/8" x .276	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .219	10 3/4" x .219	2" x .154	1 1/4" x .145	8'-0"	22 #5	20 #6	24 #6	22 #7	614	616	717	719	
	450	3 1/2" x .188	3 1/2" x .188	3 1/2" x .216	3 1/2" x .216	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .188	8 5/8" x .250	10 3/4" x .219	2" x .218	1 1/2" x .145	8'-0"	24 #5	22 #6	26 #6	24 #7	614	616	817	719
	500	3 1/2" x .188	3 1/2" x .188	3 1/2" x .300	3 1/2" x .300	1 1/4" x .140	L3 1/2 x 3 1/2 x 1/4	3-7/8"	1 1/4" x .140	L3 x 3 x 3/16	2-7/8"	6 5/8" x .188	6 5/8" x .188	8 5/8" x .188	8 5/8" x .250	10 3/4" x .219	2" x .218	1 1/2" x .145	8'-0"	18 #6	22 #6	20 #7	20 #8	615	716	817	819A
550																											
600																											
650																											
700																											

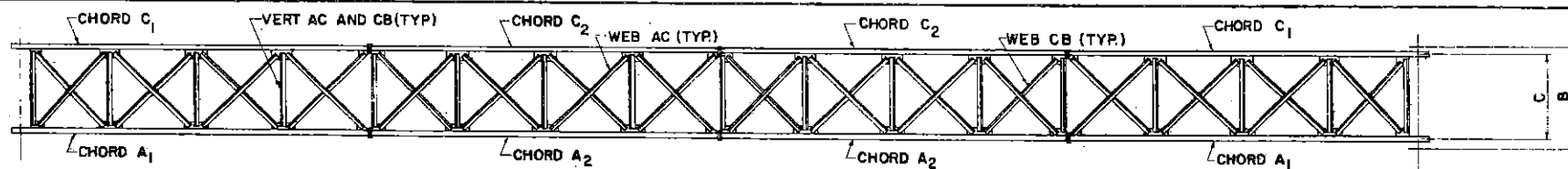
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF TRAFFIC ENGINEERING

OVERHEAD SIGN STRUCTURES
 60' TO 90' STEEL SPANS
 LOADING CONDITION II

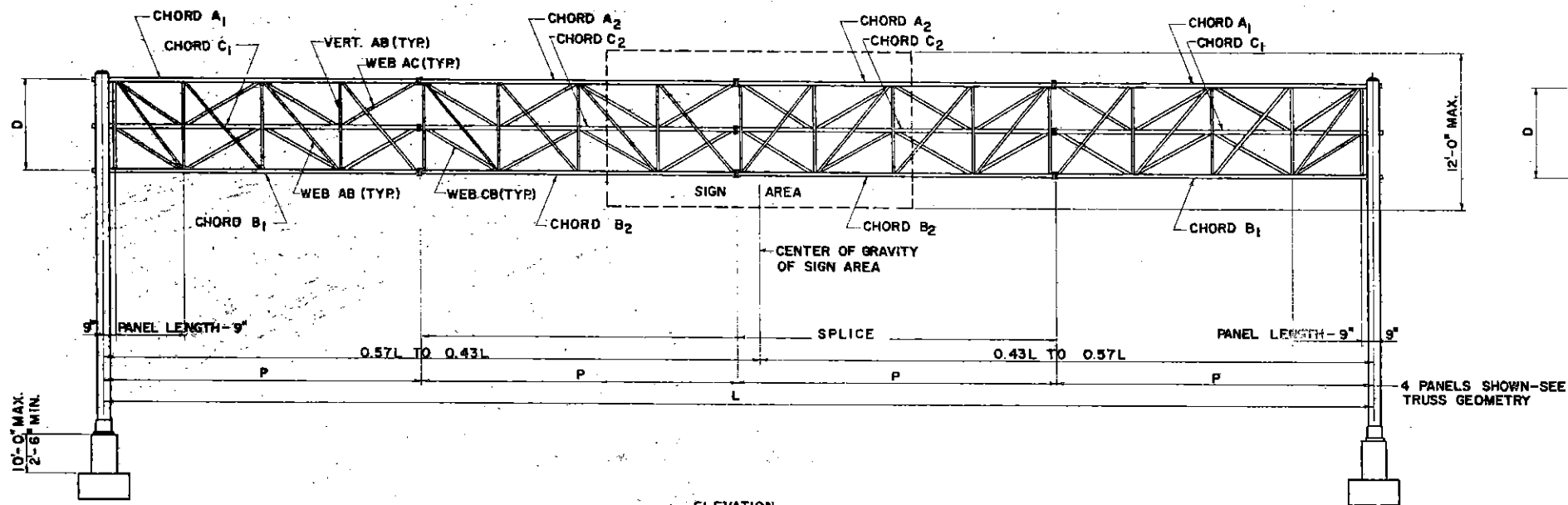
APPROVED _____ DATE _____
 CHIEF TRAFFIC ENGINEER

APPROVED _____ DATE _____
 CHIEF ENGINEER

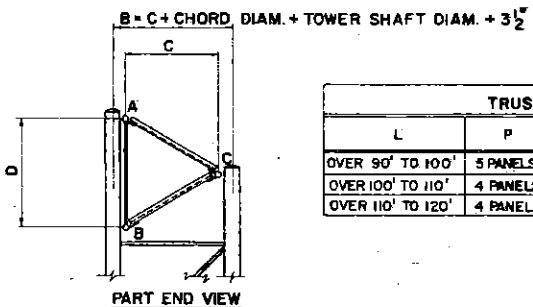
SHEET 3 OF 11 TRAFFIC STANDARD No. 7717



PLAN



ELEVATION



TRUSS GEOMETRY				
L	P	PANEL LENGTH	D	C
OVER 90' TO 100'	5 PANELS	20	5'-0"	4'-4"
OVER 100' TO 110'	4 PANELS	16	7'-0"	6'-0 3/4"
OVER 110' TO 120'	4 PANELS	16	7'-0"	6'-0 3/4"

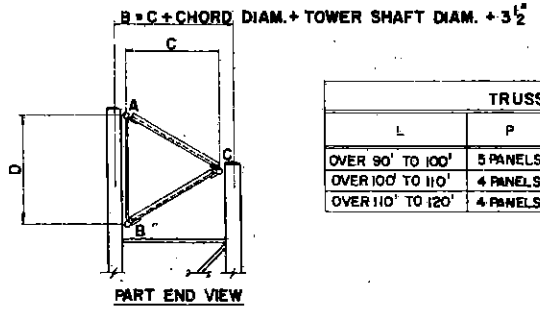
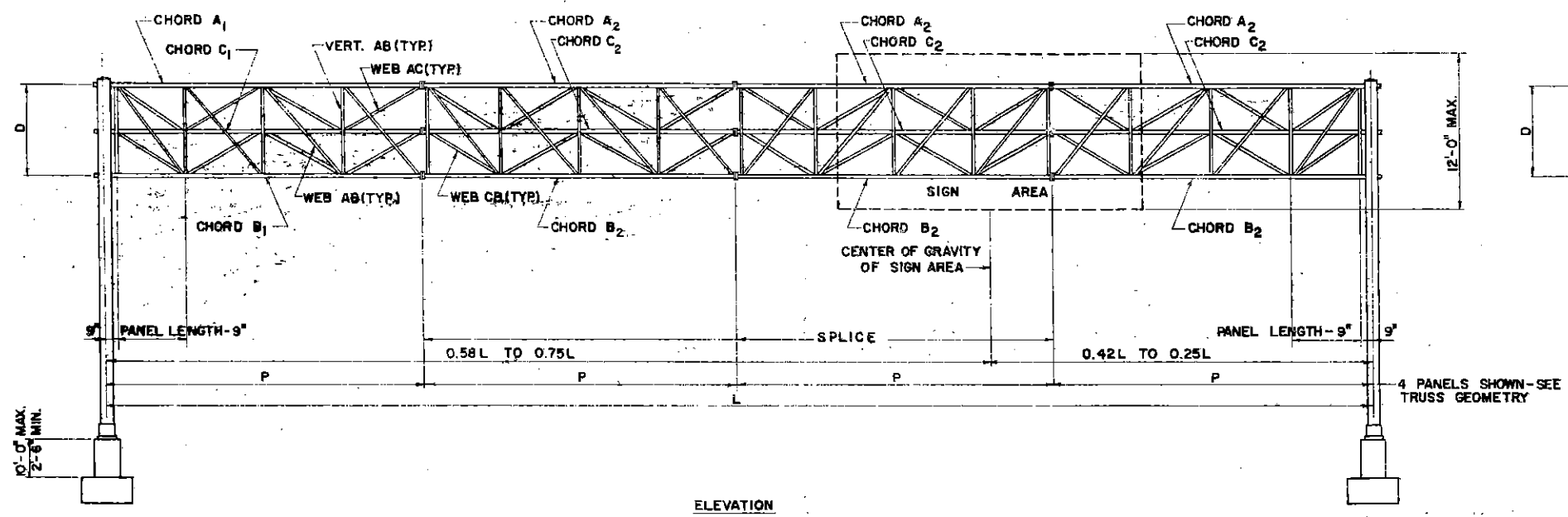
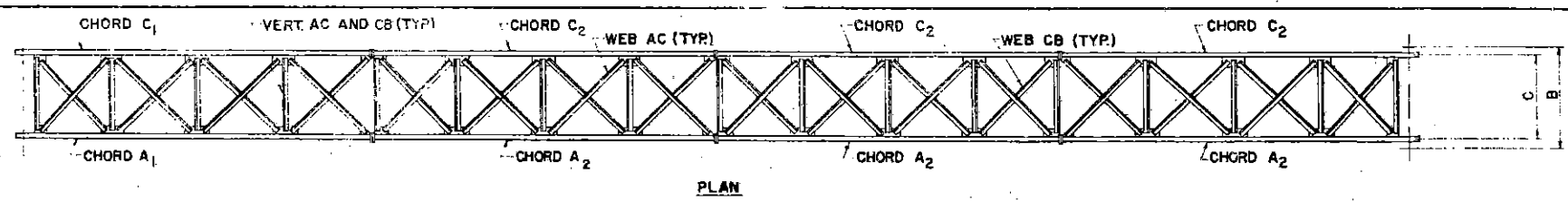
L	SIGN AREA	TRUSS MEMBERS										TOWER MEMBERS				PEDESTAL				FOOTING TYPE						
		CHORDS					WEBS		VERTICALS			SHAFTS				WEB	STRUT	E	BARS "p"							
		A1 OR B1	C1	A2 OR B2	C2	AB	AC OR CB	N	AB	AC OR CB	N	H TO 12'	H OVER 12' TO 18'	H OVER 18' TO 24'	H OVER 24' TO 30'				H TO 12'	H OVER 12' TO 18'	H OVER 18' TO 24'	H OVER 24' TO 30'				
OVER 90' TO 100'	800	4 1/2" x 188	4 1/2" x 188	3 1/2" x 337	4 1/2" x 140	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 188	8 5/8" x 219	10 3/4" x 219	12 3/4" x 250	2 1/2" x 218	1 1/2" x 200	8'-0"	22 #6	22 #7	20 #8	20 #9	715	816	818	919A
	200	3 1/2" x 188	3 1/2" x 188	3 1/2" x 216	3 1/2" x 216	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 188	8 5/8" x 219	10 3/4" x 188	10 3/4" x 250	2 1/2" x 154	1 1/2" x 145	8'-0"	22 #4	20 #5	24 #5	22 #6	513	614	714	716A
	250	3 1/2" x 188	3 1/2" x 188	3 1/2" x 216	3 1/2" x 216	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 188	10 3/4" x 219	2 1/2" x 154	1 1/2" x 145	8'-0"	22 #4	22 #5	20 #6	24 #6	514	614	715	716
	300	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/4" x 219	2 1/2" x 154	1 1/2" x 145	8'-0"	18 #5	18 #6	22 #6	20 #7	612	615	715	717
	350	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/4" x 219	2 1/2" x 154	1 1/2" x 145	8'-0"	20 #5	20 #6	24 #6	22 #7	613	616	716	817
	400	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/4" x 219	2 1/2" x 154	1 1/2" x 145	8'-0"	20 #5	20 #6	20 #7	22 #7	614	617A	717	817
	500	3 1/2" x 216	3 1/2" x 188	3 1/2" x 300	3 1/2" x 438	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 250	10 3/4" x 219	2 1/2" x 154	1 1/2" x 145	8'-0"	22 #5	22 #6	20 #7	24 #7	614	75	816	917
	550	3 1/2" x 216	3 1/2" x 216	3 1/2" x 438	3 1/2" x 438	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 219	8 5/8" x 188	10 3/4" x 219	10 3/4" x 250	2 1/2" x 218	1 1/2" x 145	8'-0"	18 #6	24 #6	22 #7	20 #8	714	716	817	819
	600	3 1/2" x 216	3 1/2" x 216	3 1/2" x 300	3 1/2" x 438	1 1/2" x 140	L3 x 3 x 1/2	3-7/8"	1 1/2" x 140	L3 x 3 x 1/2	2-7/8"	6 5/8" x 188	8 5/8" x 219	10 3/4" x 219	10 3/4" x 250	2 1/2" x 218	1 1/2" x 145	8'-0"	20 #6	20 #7	18 #8	22 #8	714	718	818	918
	700	3 1/2" x 188	3 1/2" x 188	3 1/2" x 216	3 1/2" x 188	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #4	30 #4	26 #5	22 #6	612	615	715	816A
OVER 100' TO 110'	150	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 216	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	24 #4	22 #5	26 #5	24 #6	613	616	716A	816A
	200	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 216	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	24 #4	22 #5	26 #5	24 #6	613	616	716A	816A
	250	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 216	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	26 #4	22 #5	28 #5	24 #6	613	616	716A	817A
	300	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 250	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	26 #4	24 #5	30 #5	26 #6	613	617	716A	817
	350	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 250	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	28 #4	26 #5	22 #6	26 #6	614	715	717A	818A
	400	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 219	8 5/8" x 188	10 3/4" x 219	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	28 #5	24 #6	30 #6	614	716A	719A	818A
	450	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 219	8 5/8" x 188	10 3/4" x 219	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	28 #5	24 #6	30 #6	615	716A	817A	819
	500	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/4" x 219	2 1/2" x 203	2" x 154	10'-0"	24 #5	28 #5	26 #6	30 #6	615	716A	817A	819
	550	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 219	10 3/4" x 219	10 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	24 #5	30 #5	28 #6	24 #7	615	716A	817A	819
	600	4 1/2" x 188	4 1/2" x 188	4 1/2" x 237	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 219	10 3/4" x 219	10 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	24 #5	30 #5	28 #6	24 #7	615	716A	817A	820A
650	4 1/2" x 188	4 1/2" x 188	4 1/2" x 237	4 1/2" x 237	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 219	10 3/4" x 219	10 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	24 #5	22 #6	28 #6	24 #7	616	717A	818	820	
OVER 110' TO 120'	700	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	26 #5	24 #6	22 #7	26 #7	617	718	818	919
	200	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	26 #5	24 #6	22 #7	26 #7	617	718	818	919
	250	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	26 #5	24 #6	22 #7	26 #7	617	718	818	919
	300	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	26 #5	24 #6	22 #7	26 #7	617	718	818	919
	350	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	26 #5	24 #6	22 #7	26 #7	617	718	818	919
	400	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	24 #5	22 #6	28 #6	24 #7	616	717A	818A	820A
	450	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	24 #5	22 #6	28 #6	24 #7	616	717	818	919
	500	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	26 #5	24 #6	22 #7	26 #7	616	717	818	919
	600	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	26 #5	24 #6	22 #7	26 #7	616	717	818	919
	700	4" x 226	4" x 226	4" x 318	4" x 318	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 1/4	3-7/8"	6 5/8" x 188	8 5/8" x 250	10 3/4" x 219	12 3/4" x 250	2 1/2" x 203	2" x 154	10'-0"	26 #5	24 #6	22 #7	22 #7	715	817A	918	1019

NOTES
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COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF TRAFFIC ENGINEERING

OVERHEAD SIGN STRUCTURES

DISTRICT	COUNTY	ROUTE	SECTION	SHEET



L	P	PANEL LENGTH	D	C
OVER 90' TO 100'	5 PANELS	20	5'-0"	4'-4"
OVER 100' TO 110'	4 PANELS	16	7'-0"	6'-0 1/2"
OVER 110' TO 120'	4 PANELS	16	7'-0"	6'-0 3/4"

L	SIGN AREA	TRUSS MEMBERS										TOWER MEMBERS				PEDESTAL				FOOTING TYPE						
		CHORDS					WEBS		VERTICALS			SHAFTS				WEB	STRUT	E	BARS *P*							
		A1 OR B1	C1	A2 OR B2	C2	AB	AC OR CB	N	AB	AC OR CB	N	H TO 12'	H OVER 12' TO 18'	H OVER 18' TO 24'	H OVER 24' TO 30'				H TO 12'	H OVER 12' TO 18'	H OVER 18' TO 24'	H OVER 24' TO 30'				
OVER 90' TO 100'	150	3 1/2" x 188	3 1/2" x 188	3 1/2" x 188	3 1/2" x 188	1 1/2" x 140	L3 1/2 x 3 1/2 x 4	3-7/8"	1 1/2" x 140	L3 x 3 x 3/16	2-7/8"	6 5/8" x 188	8 5/8" x 219	8 5/8" x 188	8 5/8" x 250	2" x 154	1 1/2" x 145	8'-0"	22 #4	20 #5	24 #5	22 #6	512	614	615	716
	200	3 1/2" x 188	3 1/2" x 188	3 1/2" x 188	3 1/2" x 188	1 1/2" x 140	L3 1/2 x 3 1/2 x 4	3-7/8"	1 1/2" x 140	L3 x 3 x 3/16	2-7/8"	6 5/8" x 188	8 5/8" x 219	8 5/8" x 188	8 5/8" x 250	2" x 154	1 1/2" x 145	8'-0"	24 #4	22 #5	20 #6	19 #7	514	615	616A	717
	250	3 1/2" x 188	3 1/2" x 188	3 1/2" x 216	3 1/2" x 216	1 1/2" x 140	L3 1/2 x 3 1/2 x 4	3-7/8"	1 1/2" x 140	L3 x 3 x 3/16	2-7/8"	6 5/8" x 188	8 5/8" x 219	8 5/8" x 188	8 5/8" x 250	2" x 154	1 1/2" x 145	8'-0"	26 #4	24 #5	22 #6	20 #7	514	615	617A	717
	300	3 1/2" x 188	3 1/2" x 188	3 1/2" x 216	3 1/2" x 216	1 1/2" x 140	L3 1/2 x 3 1/2 x 4	3-7/8"	1 1/2" x 140	L3 x 3 x 3/16	2-7/8"	6 5/8" x 188	8 5/8" x 219	8 5/8" x 188	8 5/8" x 250	2" x 154	1 1/2" x 145	8'-0"	20 #5	18 #6	22 #6	20 #7	515	615	716	718
	350	4 1/2" x 188	4 1/2" x 188	4 1/2" x 188	4 1/2" x 188	1 1/2" x 140	L3 1/2 x 3 1/2 x 4	3-7/8"	1 1/2" x 140	L3 x 3 x 3/16	2-7/8"	6 5/8" x 188	8 5/8" x 219	8 5/8" x 188	8 5/8" x 250	2" x 154	1 1/2" x 145	8'-0"	22 #5	20 #6	18 #7	22 #7	515	616A	717	718
	400	4 1/2" x 188	4 1/2" x 188	4 1/2" x 188	4 1/2" x 188	1 1/2" x 140	L3 1/2 x 3 1/2 x 4	3-7/8"	1 1/2" x 140	L3 x 3 x 3/16	2-7/8"	6 5/8" x 188	8 5/8" x 219	8 5/8" x 188	8 5/8" x 250	2" x 154	1 1/2" x 145	8'-0"	22 #5	22 #6	20 #7	18 #8	614	616A	717	719
	450	4 1/2" x 188	4 1/2" x 188	4 1/2" x 188	4 1/2" x 188	1 1/2" x 140	L3 1/2 x 3 1/2 x 4	3-7/8"	1 1/2" x 140	L3 x 3 x 3/16	2-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	8 5/8" x 219	2" x 154	1 1/2" x 145	8'-0"	18 #6	18 #7	22 #7	20 #8	615	618A	718	721
OVER 100' TO 110'	550	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 140	L3 1/2 x 3 1/2 x 4	3-7/8"	1 1/2" x 145	L3 x 3 x 3/16	2-7/8"	6 5/8" x 219	8 5/8" x 219	10 3/8" x 219	10 3/8" x 250	2 3/8" x 218	2" x 154	8'-0"	20 #6	20 #7	18 #8	22 #8	715	717	818	820B
	600	3 1/2" x 188	3 1/2" x 188	3 1/2" x 188	3 1/2" x 188	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 188	8 5/8" x 250	2 1/2" x 203	2" x 154	10'-0"	22 #4	28 #4	24 #5	30 #5	514	615	715	717A
	200	3 1/2" x 188	3 1/2" x 188	3 1/2" x 216	3 1/2" x 216	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	24 #4	22 #5	28 #5	24 #6	613	615	716	718
	250	3 1/2" x 203	2 1/2" x 203	2 1/2" x 375	2 1/2" x 375	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 250	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	28 #4	24 #5	30 #5	26 #6	614	616	717A	817A
	300	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 250	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	30 #4	26 #5	24 #6	28 #6	614	715	717A	720
	400	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 250	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	24 #5	26 #5	26 #6	30 #6	615	716A	718	819
	450	3 1/2" x 188	3 1/2" x 188	3 1/2" x 300	3 1/2" x 300	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	24 #5	26 #5	26 #6	30 #6	615	716A	718	819
OVER 110' TO 120'	500	4 1/2" x 188	4 1/2" x 188	4 1/2" x 188	4 1/2" x 188	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 188	8 5/8" x 188	8 5/8" x 250	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	28 #4	24 #5	22 #6	26 #6	614	617	717A	818A
	250	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 250	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	30 #4	26 #5	24 #6	28 #6	614	618	718A	818A
	300	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	29 #5	26 #6	22 #7	615	716	718	819
	400	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	29 #5	26 #6	22 #7	615	716	718	819
	450	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	29 #5	26 #6	22 #7	615	716	718	819
	500	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	29 #5	26 #6	22 #7	615	716	718	819
	550	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	29 #5	26 #6	22 #7	615	716	718	819
600	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	29 #5	26 #6	22 #7	615	716	718	819	
650	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	29 #5	26 #6	22 #7	615	716	718	819	
700	4 1/2" x 188	4 1/2" x 188	4 1/2" x 219	4 1/2" x 219	1 1/2" x 145	L5 x 5 x 5/16	4-7/8"	2" x 154	L3 1/2 x 3 1/2 x 4	3-7/8"	6 5/8" x 219	8 5/8" x 188	8 5/8" x 219	10 3/8" x 219	2 1/2" x 203	2" x 154	10'-0"	22 #5	29 #5	26 #6	22 #7	615	716	718	819	

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COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF TRAFFIC ENGINEERING

OVERHEAD SIGN STRUCTURES
90' TO 120' STEEL SPANS
LOADING CONDITION II

APPROVED _____ DATE _____
CHIEF TRAFFIC ENGINEER

APPROVED _____ DATE _____
CHIEF ENGINEER

SHEET **TRAFFIC**
5 OF 11 **STANDARD** No. **7717**

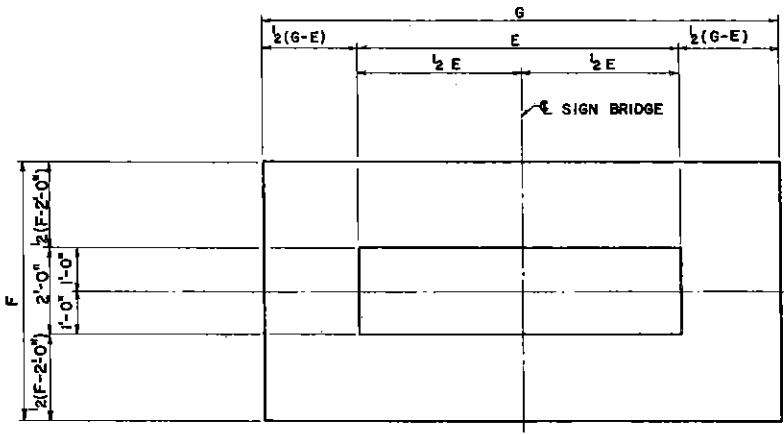
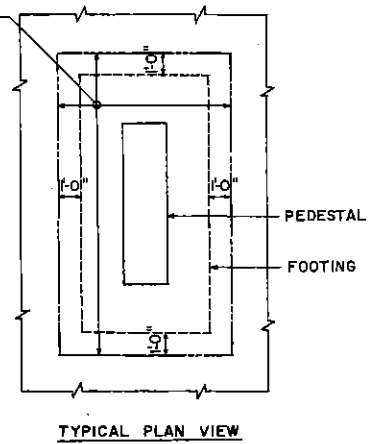
3-30-71
 REVISIONS

FOOTING			FOOTING REINFORCEMENT							
TYPE	DIMENSION		CU. YDS. CONC.	L BARS			T BARS		WT. OF BARS	
	F	G		L ₁	L ₂	LENGTH	T ₁	T ₂		LENGTH
413	4'-0"	13'-0"	3.8	4#4	4#4	12'-6"	13#4	13#4	3'-6"	128
509										
510	5'-0"	10'-0"	3.7	5#4	5#4	9'-6"	10#4	10#4	4'-6"	124
511	5'-0"	11'-0"	4.1	5#4	5#4	10'-6"	11#4	11#4	4'-6"	136
512	5'-0"	12'-0"	4.4	5#4	5#4	11'-6"	12#4	12#4	4'-6"	149
513	5'-0"	13'-0"	4.8	5#4	5#4	12'-6"	13#4	13#4	4'-6"	162
514	5'-0"	14'-0"	5.2	6#4	5#4	13'-6"	14#4	14#4	4'-6"	183
515	5'-0"	15'-0"	5.6	6#4	5#4	14'-6"	15#4	15#4	4'-6"	197
515A	5'-0"	15'-0"	5.6	5#5	5#4	14'-6"	15#4	15#4	4'-6"	214
1118	11'-0"	18'-0"	14.7	14#5	10#5	17'-6"	18#4	18#4	10'-6"	691
610										
611										
612	6'-0"	12'-0"	5.3	6#4	6#4	11'-6"	12#4	12#4	5'-6"	180
613	6'-0"	13'-0"	5.8	6#4	6#4	12'-6"	13#4	13#4	5'-6"	196
614	6'-0"	14'-0"	6.2	7#4	6#4	13'-6"	14#4	14#4	5'-6"	220
615	6'-0"	15'-0"	6.7	8#4	6#4	14'-6"	15#4	15#4	5'-6"	246
616	6'-0"	16'-0"	7.1	8#4	6#4	15'-6"	16#4	16#4	5'-6"	262
617	6'-0"	17'-0"	7.6	7#4	6#4	16'-6"	17#4	17#4	5'-6"	268
618	6'-0"	18'-0"	8.0	8#4	6#4	17'-6"	18#4	18#4	5'-6"	292
619										
620										
616A	6'-0"	16'-0"	7.1	6#5	6#4	15'-6"	16#4	16#4	5'-6"	277
617A	6'-0"	17'-0"	7.6	8#5	7#4	16'-6"	17#4	17#4	5'-6"	340
618A	6'-0"	18'-0"	8.0	8#5	7#4	17'-6"	18#4	18#4	5'-6"	360
621	6'-0"	21'-0"	9.3	6#5	7#4	20'-6"	21#4	21#4	5'-6"	379
712										
713										
714	7'-0"	14'-0"	7.3	8#4	7#4	13'-6"	14#4	14#4	6'-6"	257
715	7'-0"	15'-0"	7.8	9#4	7#4	14'-6"	15#4	15#4	6'-6"	285
716	7'-0"	16'-0"	8.3	7#5	7#4	15'-6"	16#4	16#4	6'-6"	328
717	7'-0"	17'-0"	8.8	9#5	8#4	16'-6"	17#4	17#4	6'-6"	391
718	7'-0"	18'-0"	9.3	10#5	10#4	17'-6"	18#4	18#4	6'-6"	455
719	7'-0"	19'-0"	9.9	10#5	10#4	18'-6"	19#4	19#4	6'-6"	482
720	7'-0"	20'-0"	10.4	7#6	7#5	19'-6"	20#4	20#4	6'-6"	521
716A	7'-0"	16'-0"	8.3	9#4	7#4	15'-6"	16#4	16#4	6'-6"	304
717A	7'-0"	17'-0"	8.8	8#4	7#4	16'-6"	17#4	17#4	6'-6"	313
718A	7'-0"	18'-0"	9.3	10#4	7#4	17'-6"	18#4	18#4	6'-6"	355
721	7'-0"	21'-0"	10.9	9#6	9#5	20'-6"	21#4	21#4	6'-6"	652
719A	7'-0"	19'-0"	9.9	7#5	7#4	18'-6"	19#4	19#4	6'-6"	387
814										
815	8'-0"	15'-0"	8.9	8#4	8#4	14'-6"	15#4	15#4	7'-6"	305
816	8'-0"	16'-0"	9.5	11#4	8#4	15'-6"	16#4	16#4	7'-6"	357
817	8'-0"	17'-0"	10.1	9#5	9#4	16'-6"	17#4	17#4	7'-6"	424
818	8'-0"	18'-0"	10.7	11#5	11#4	17'-6"	18#4	18#4	7'-6"	510
819	8'-0"	19'-0"	11.3	9#5	8#4	18'-6"	19#4	19#4	7'-6"	463
820	8'-0"	20'-0"	11.9	9#6	9#5	19'-6"	20#4	20#4	7'-6"	647
821	8'-0"	21'-0"	12.5	8#6	8#5	20'-6"	21#4	21#4	7'-6"	628
1019A	10'-0"	19'-0"	14.1	10#7	10#6	18'-6"	19#4	19#4	9'-6"	858
817A	8'-0"	17'-0"	10.1	9#4	8#4	16'-6"	17#4	17#4	7'-6"	357
818A	8'-0"	18'-0"	10.7	7#5	6#4	17'-6"	18#4	18#4	7'-6"	402
820A	8'-0"	20'-0"	11.9	10#5	10#4	19'-6"	20#4	20#4	7'-6"	634
816A	8'-0"	16'-0"	9.5	8#4	8#4	15'-6"	16#4	16#4	7'-6"	326
819A	8'-0"	19'-0"	11.3	11#5	11#4	18'-6"	19#4	19#4	7'-6"	539
820B	8'-0"	20'-0"	11.9	10#6	10#5	19'-6"	20#4	20#4	7'-6"	698
917	9'-0"	17'-0"	11.3	9#5	9#4	16'-6"	17#4	17#4	8'-6"	448
918	9'-0"	18'-0"	12.0	10#5	9#4	17'-6"	18#4	18#4	8'-6"	492
919	9'-0"	19'-0"	12.7	10#6	9#4	18'-6"	19#4	19#4	8'-6"	520
920	9'-0"	20'-0"	13.3	11#5	7#5	19'-6"	20#4	20#4	8'-6"	593
918A	9'-0"	18'-0"	12.0	9#6	9#5	17'-6"	18#4	18#4	8'-6"	605
920A	9'-0"	20'-0"	13.3	9#7	9#6	19'-6"	20#4	20#4	8'-6"	850
920A	9'-0"	20'-0"	13.3	9#6	9#5	19'-6"	20#4	20#4	8'-6"	674
919A	9'-0"	19'-0"	12.7	12#5	13#4	18'-6"	19#4	19#4	8'-6"	609
1018	10'-0"	18'-0"	13.3	10#6	10#4	17'-6"	18#4	18#4	9'-6"	628
1019	10'-0"	19'-0"	14.1	13#5	13#4	18'-6"	19#4	19#4	9'-6"	653
1020	10'-0"	20'-0"	14.8	10#6	10#5	19'-6"	20#4	20#4	9'-6"	750
1017	10'-0"	17'-0"	12.6	13#5	10#5	16'-6"	17#4	17#4	9'-6"	612
1018A	10'-0"	18'-0"	13.3	12#6	12#5	17'-6"	18#4	18#4	9'-6"	763
1119	11'-0"	19'-0"	15.5	11#6	11#5	18'-6"	19#4	19#4	10'-6"	784

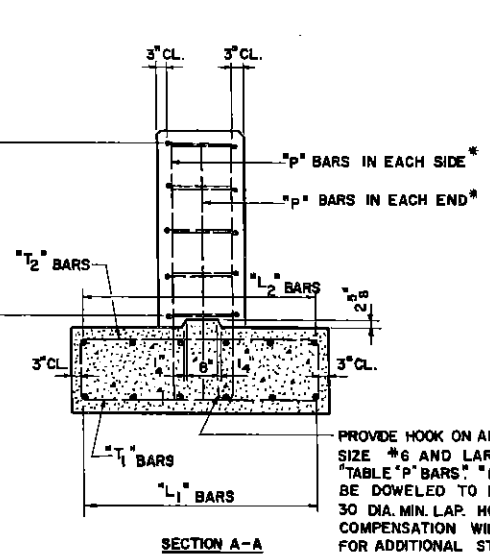
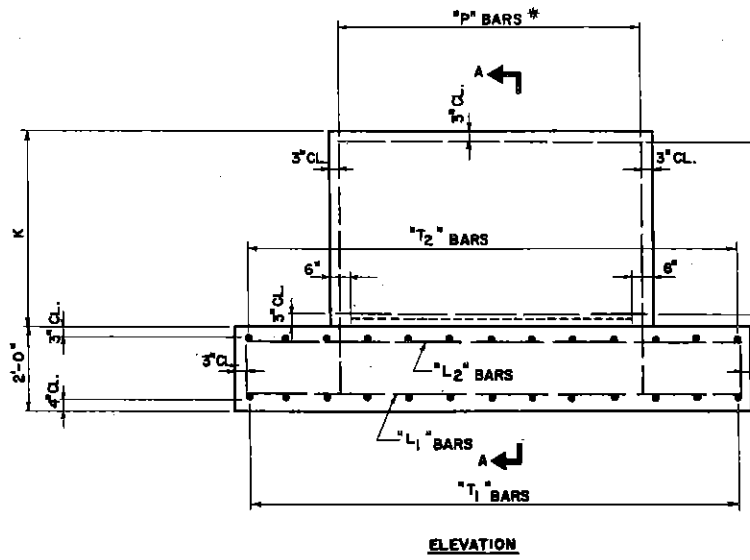
E	CU. YDS. CONC.	# 4 BARS TYPE "M"					WT. PER PAIR
		LENGTH	A	B			
7'-0"	0.82 K	9'-4"	6'-6"	1'-5"		12	
8'-0"	0.59 K	10'-4"	7'-6"	1'-5"		14	
9'-0"	0.67 K	11'-4"	8'-6"	1'-5"		15	
10'-0"	0.74 K	12'-4"	9'-6"	1'-5"		17	

TABLE "P" BARS			
BAR SIZE	WEIGHT LBS/FT	A	LENGTH
4	.668	0	K + 1'-5"
5	1.043	8"	K + 1'-5"
6	1.502	8"	K + 2'-1"
7	2.044	10"	K + 2'-3"
8	2.670	1'-1"	K + 2'-6"
9	3.400	1'-3"	K + 2'-8"
10	4.303	1'-5"	K + 2'-10"
11	5.313	1'-7"	K + 3'-0"

LIMIT OF PAYMENT FOR CLASS 2 EXCAVATION



NOTE
FOR DIMENSION "K" AND "E" AND NUMBER OF BARS "M" SEE "GENERAL PLAN AND ELEVATION" FOR INDIVIDUAL STRUCTURE.



* TOTAL NUMBER AND SIZE OF THESE BARS ARE GIVEN IN TABLES ON SHEETS 1 TO 7 AND ON THE "GENERAL PLAN AND ELEVATION" SHEET FOR EACH STRUCTURE. OF THIS NUMBER OF BARS, ONE IS PLACED IN EACH END OF THE PEDESTAL AND ONE HALF OF THE REMAINING BARS ARE PLACED IN EACH SIDE.

PROVIDE HOOK ON ALL "P" BARS SIZE #6 AND LARGER, SEE "TABLE "P" BARS". "P" BARS MAY BE DOWELED TO FOOTING USING 30 DIA. MIN. LAP. HOWEVER NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL STEEL INVOLVED.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET

GENERAL NOTES
 * TOWER SHAFTS SHALL BE HIGH TEST LINE PIPE, CONFORMING TO API SPECIFICATION, DESIGNATION 5LX GRADE X46, SEAMLESS OR ELECTRIC RESISTANCE WELD PIPE. TRUSS CHORD MEMBERS SHALL BE STEEL PIPE GRADE B ASTM-A53 CURRENT SEAMLESS. ALL TRUSS WEB MEMBERS AND TOWER WEB MEMBERS SHALL BE STEEL PIPE ASTM-53 CURRENT, BUTT WELD. ALL PLATES AND SHAPES SHALL BE STRUCTURAL STEEL ASTM-36 CURRENT.

* ANCHOR BOLTS SHALL BE STRUCTURAL STEEL ASTM-A441.
 * ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF HIGHWAYS SPECIFICATIONS, CURRENT FORMS 408 AND 409 AND A.W.S. STANDARD SPECIFICATIONS FOR WELDED HIGHWAY BRIDGES.

* ALL CONCRETE SHALL BE CLASS A.
 * STEEL REINFORCEMENT BARS ARE DESIGNED FOR F_S=18,000 LBS. PER. SQ. IN. AND DETAILED AS PER A.C.I. CODE. STRESSED BARS SHALL BE LAPPED 30 DIAMETERS AND UNSTRESSED BARS 24 DIAMETERS, EXCEPT AS NOTED.
 * PROVIDE 3" COVER ON REINFORCEMENT BARS UNLESS OTHERWISE NOTED.
 * DESIGN SPECIFICATIONS ARE BASED ON UNITED STATES BUREAU OF PUBLIC ROADS "SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS," NOVEMBER 1960.

* MAXIMUM FOUNDATION BEARING PRESSURE EQUALS 1 1/2 TONS PER SQ. FT.
 * THE FOOTINGS MAY BE ORDERED BY THE ENGINEER TO BE AT ANY ELEVATION OR OF ANY DIMENSIONS NECESSARY TO PROVIDE A PROPER FOUNDATION.
 * EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 1" X 1" UNLESS SPECIFIED OR DIRECTED BY THE ENGINEER OTHERWISE.
 * ALL ANCHOR BOLTS FOR BEARINGS SHALL BE SET BY TEMPLATE IN FORMS BEFORE CONCRETE IS POURED. DRILLING OF HOLES FOR ANCHOR BOLTS IN PEDESTALS WILL NOT BE PERMITTED.
 * ALL MATERIAL INCLUDED IN ITEM "SIGN STRUCTURE STEEL" SHALL BE GALVANIZED IN ACCORDANCE WITH P.D.H. SPECIFICATIONS, CURRENT FORM 409.

* DIAMETERS OF PIPE GIVEN IN STANDARDS ARE OUTSIDE DIAMETERS FOR SEAMLESS AND NOMINAL DIAMETER FOR BUTT WELD.
 * FOR METHOD OF DETERMINING FOOTING LOCATION AND ELEVATIONS OF TOP OF PEDESTALS, SEE "TRAFFIC STANDARD 7713," SHEET 7 OF 12.
 * FOR WELDS, THE SHIELDED METAL ARC SHALL BE USED WITH ELECTRODES CONFORMING TO ASTM DESIGNATION E6016, E6018, E6028, E7016, E7018 OR E7028.

* GALVANIZING SHALL BE DONE AFTER ALL WELDING AND DRILLING HAVE BEEN COMPLETED.
 * FOR GUARD FENCE DETAILS SEE "TRAFFIC STANDARD 7713" SHEET 7 OF 12.

REVISIONS
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1-11-73
3-30-71

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 DEPARTMENT OF TRANSPORTATION
 BUREAU OF TRAFFIC ENGINEERING

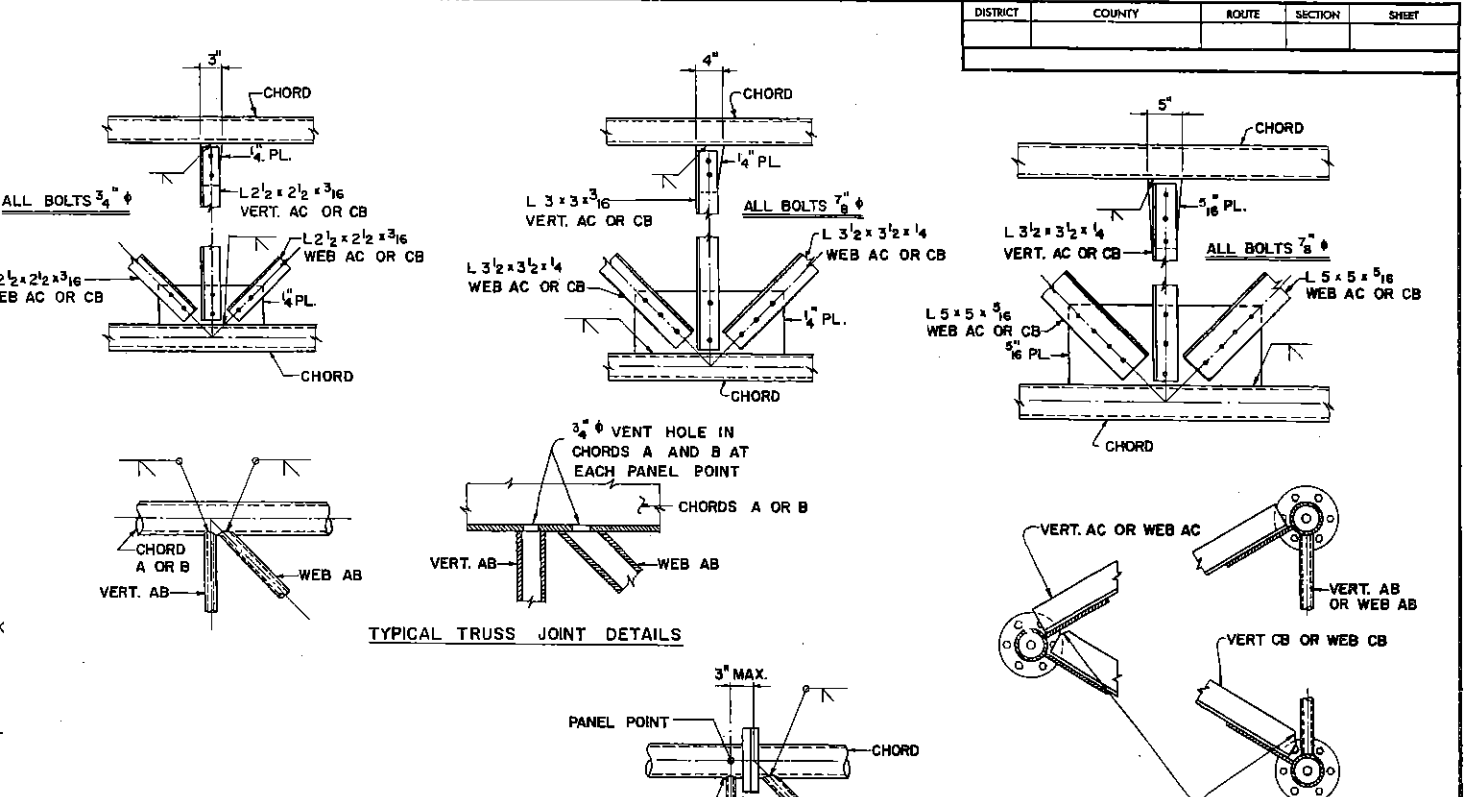
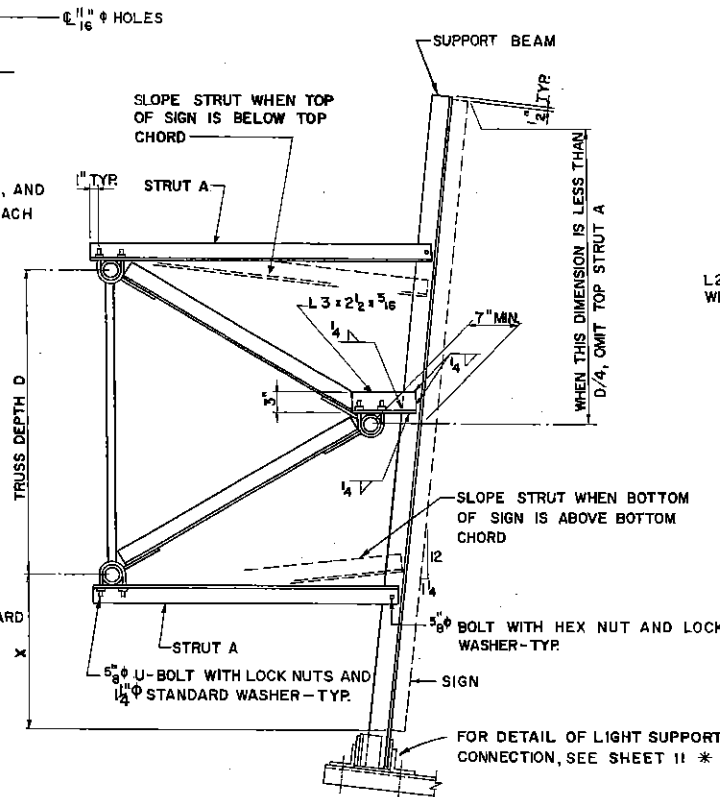
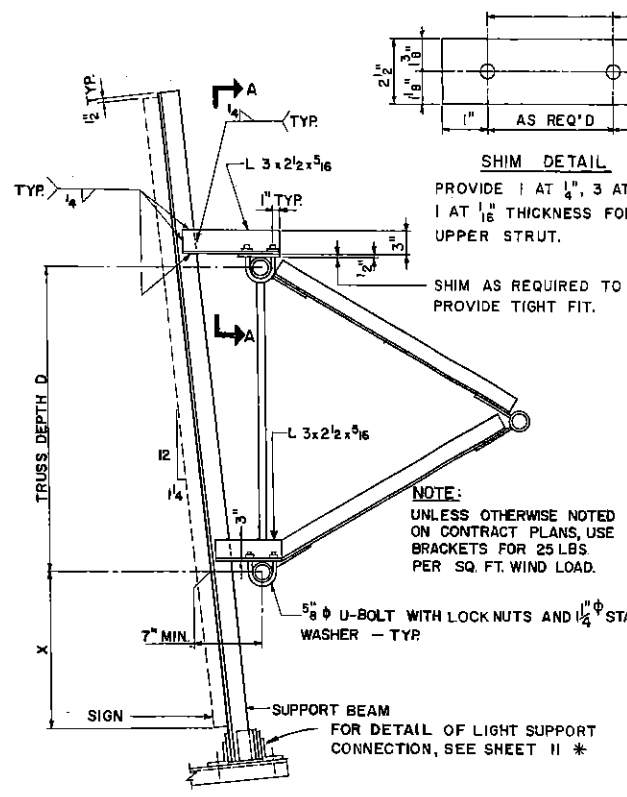
OVERHEAD SIGN STRUCTURES
 STEEL SPANS OVER 50'
 FOUNDATION DETAILS

APPROVED _____ DATE _____
 CHIEF TRAFFIC ENGINEER

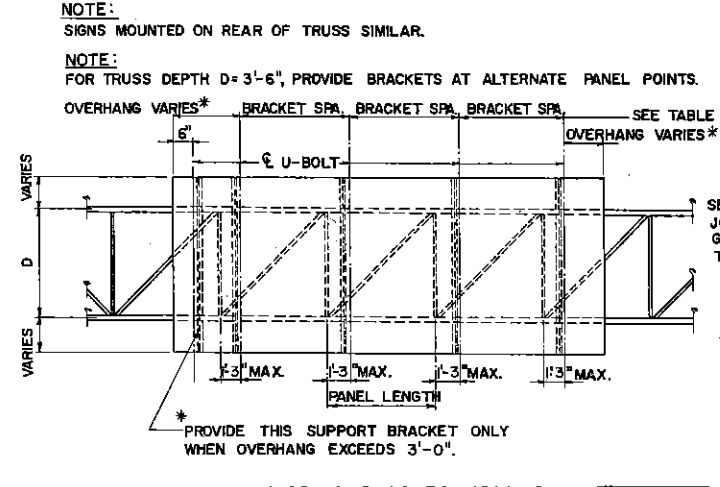
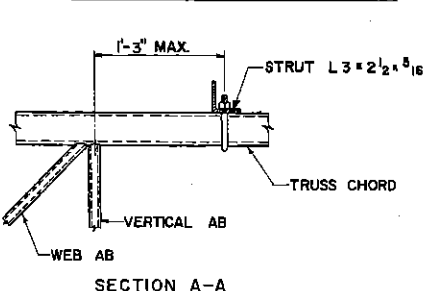
APPROVED _____ DATE _____
 CHIEF ENGINEER

SHEET	TRAFFIC STANDARD	No.
8 OF 11		7717

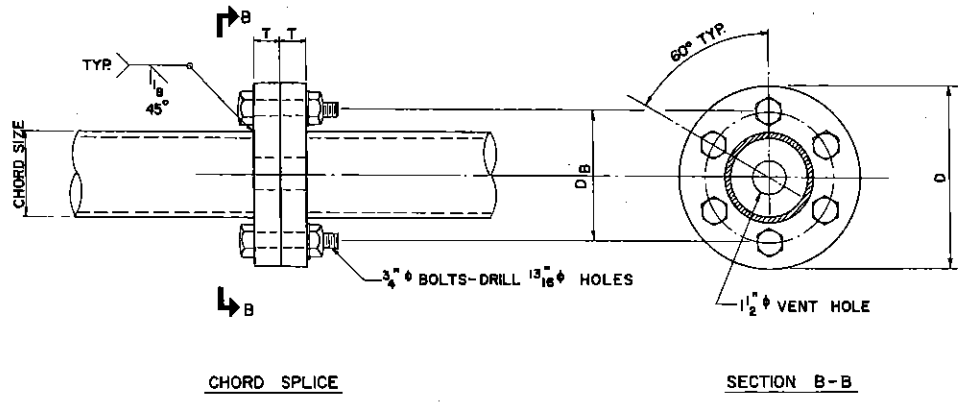
DISTRICT	COUNTY	ROUTE	SECTION	SHEET



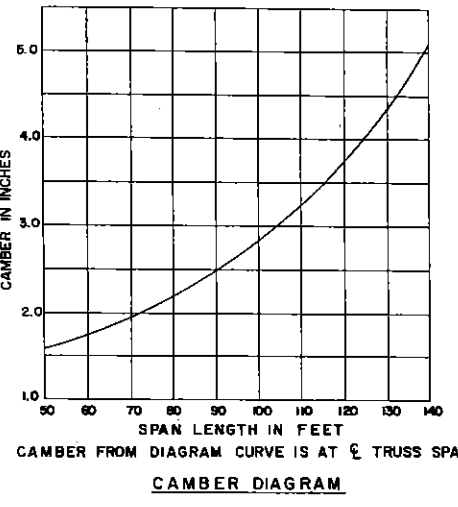
WIND LOAD	D	X	SUPPORT BEAM	STRUT A	MAX. BRACKET SPACING
25 LBS. PER SQ. FT.	3'-6"	0 TO 3'-0"	ST 3 I 6.25	L 2 1/2 x 2 1/2 x 3/16	7'-0"
		3'-0" TO 4'-0"	ST 3.5 I 7.65	L 2 1/2 x 2 1/2 x 3/16	5'-0"
		4'-0" TO 4'-6"	ST 3 I 8.63	L 3 1/2 x 3 1/2 x 1/4	7'-0"
	5'-0"	0 TO 3'-6"	ST 3 I 6.25	L 2 1/2 x 2 1/2 x 3/16	5'-0"
40 LBS. PER SQ. FT.	3'-6"	0 TO 2'-0"	ST 3 I 6.25	L 2 1/2 x 2 1/2 x 3/16	7'-0"
		2'-0" TO 3'-0"	ST 3.5 I 7.65	L 2 1/2 x 2 1/2 x 3/16	7'-0"
		3'-0" TO 3'-6"	ST 3 I 8.63	L 2 1/2 x 2 1/2 x 3/16	7'-0"
	5'-0"	0 TO 2'-6"	ST 3 I 6.25	L 2 1/2 x 2 1/2 x 3/16	5'-0"
		2'-6" TO 3'-6"	ST 3.5 I 7.65	L 2 1/2 x 2 1/2 x 3/16	5'-0"
		3'-6" TO 4'-6"	ST 4 I 11.0	L 3 1/2 x 3 1/2 x 1/4	7'-0"



CHORD SPLICE				
CHORD SIZE	D	D _B	T	WEIGHT - LBS.*
2 3/8" φ	7 1/2"	5"	1"	27
2 7/8" φ	7 1/2"	5"	1"	27
3 1/2" φ	8"	5 1/2"	1 1/4"	38
4" φ	8 1/2"	6"	1 1/4"	43
4 1/2" φ	9"	6 1/2"	1 1/4"	48
5" φ	10"	7"	1 1/4"	55
5 1/2" φ	10 1/2"	8"	1 1/4"	65



WEIGHT OF 5/8" φ U-BOLT ASSEMBLY FOR STRUTS	
CHORD SIZE	WT. IN LBS. EACH
2 3/8" φ	1.1
2 7/8" φ	1.1
3 1/2" φ	1.4
4" φ	1.4
4 1/2" φ	1.7
5" φ	1.9



NOTES:

JOINT DETAILS SHOWN ARE TYPICAL AND MAY BE ALTERED TO CONFORM TO MEMBER SIZES AND NUMBER OF BOLTS (N) REQUIRED AS SPECIFIED IN DESIGN TABLES (SHEETS 1 THRU 7).

COMPLETE ERECTION OF CHORD SPLICE PRIOR TO ERECTING VERTICALS AC AND CB

SEE SHEET 8 FOR GENERAL NOTES.

FOR DETAILS OF MOUNTING SIGNS TO SIGN SUPPORT BRACKETS SEE STANDARD DRAWING 7716.

ALL FIELD CONNECTIONS SHALL BE MADE AFTER GALVANIZING.

* FOR SPECIAL LIGHT FIXTURE SUPPORT DETAILS FOR STRUCTURE MOUNTED ON HIGHWAY BRIDGE SEE SHEET IIA.

APPLY TORQUE OF 25 FT.-LBS. TO ALL 5/8" φ U-BOLTS CONNECTING SIGN SUPPORT STRUTS TO TRUSS WHEN ERECTING IN FIELD. (THIS NOTE TO BE PLACED ON SHOP ERECTION DRAWINGS.)

ALL BOLTS (INCLUDING U-F'LTS) SHALL BE HIGH STRENGTH GALVANIZED.

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DEPARTMENT OF TRANSPORTATION
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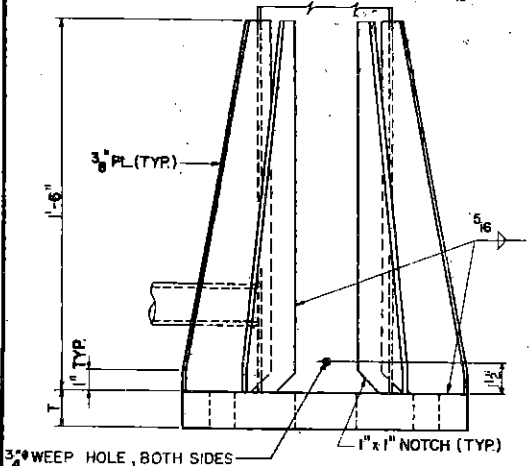
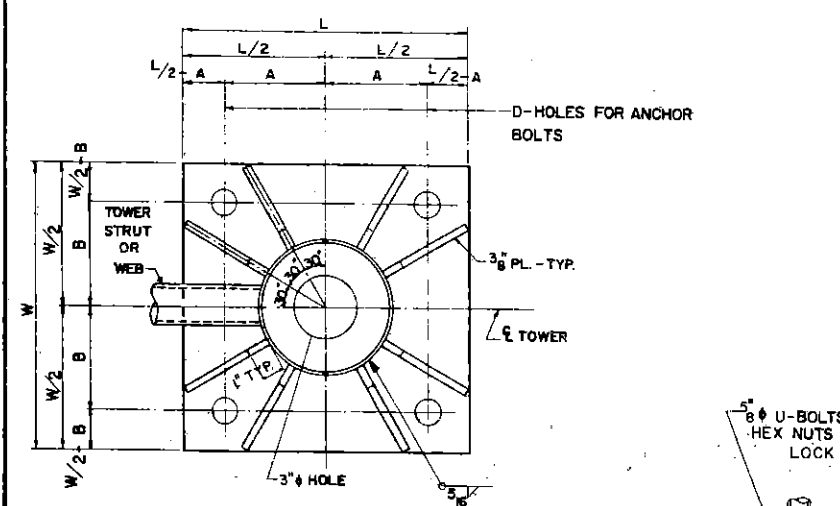
**OVERHEAD SIGN STRUCTURES
STEEL SPANS OVER 50'
TRUSS DETAILS**

APPROVED _____ DATE _____
CHIEF TRAFFIC ENGINEER

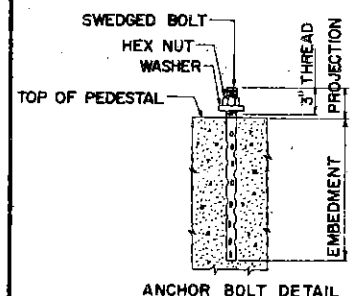
APPROVED _____ DATE _____
CHIEF ENGINEER

SHEET 9 of 11 TRAFFIC STANDARD No. 7717

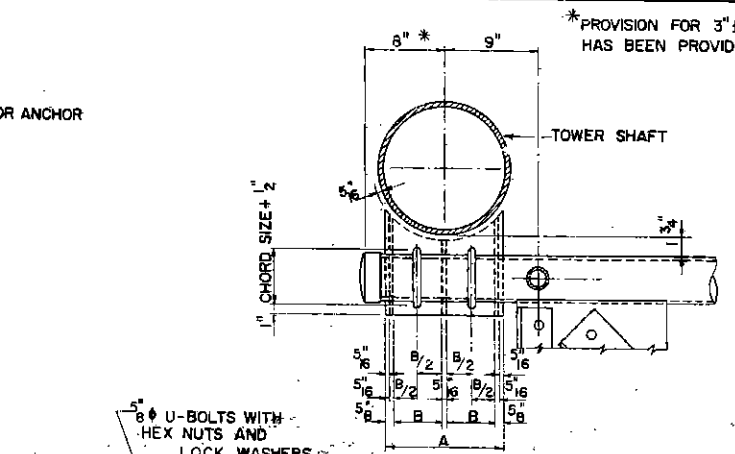
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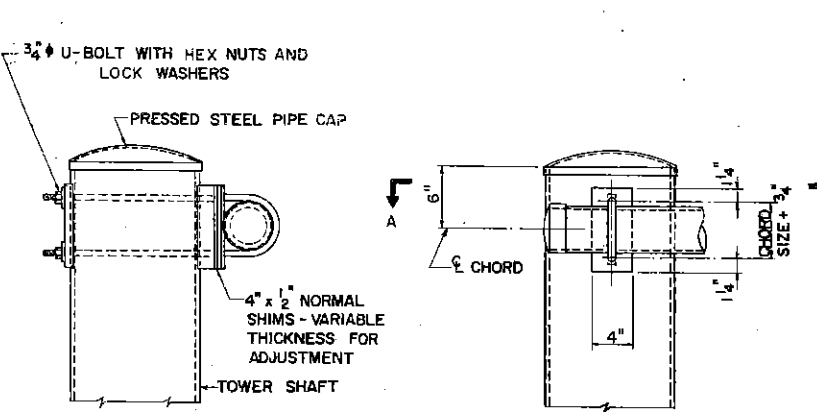
TOWER SHAFT BASE DETAILS



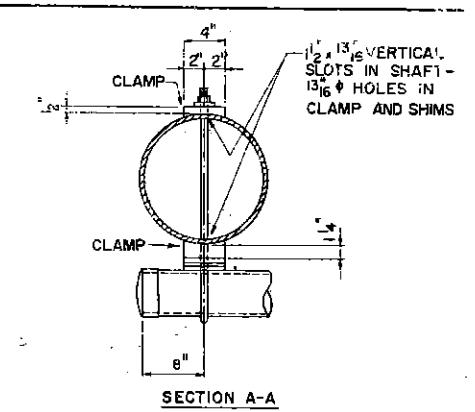
ANCHOR BOLT DETAIL



TRUSS SEAT DETAILS

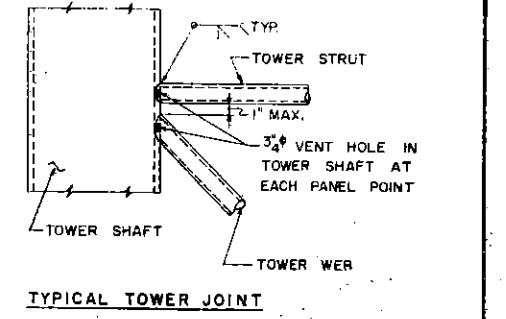


UPPER CHORD CLAMP DETAILS



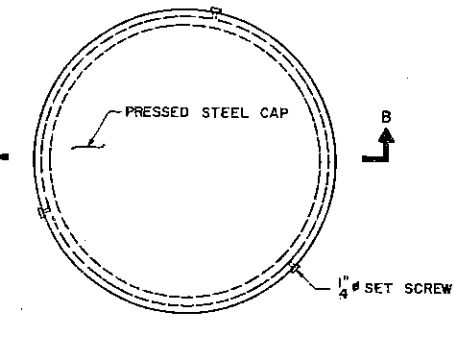
SECTION A-A

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
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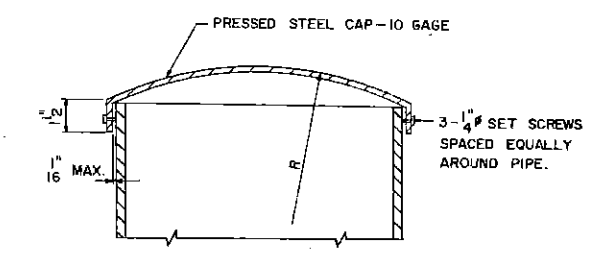


TYPICAL TOWER JOINT

PIPE SIZE	R	WEIGHT IN LBS.
2 3/8"	9"	0.6
2 7/8"	9"	0.8
3 1/8"	9"	1.0
3 5/8"	9"	1.2
4 1/8"	9"	1.5
4 5/8"	9"	1.7
5 1/8"	9"	3.0
5 5/8"	9"	5.0
6 1/8"	9"	6.5
12 3/8"	1'-6"	8.0



PIPE CAP DETAILS



SECTION B-B

NOTES:
SEE SHEET 6 FOR GENERAL NOTES.
U-BOLTS ARE NOT TO BE TIGHTENED UNTIL ENTIRE SIGN LOAD HAS BEEN PLACED ON SPAN.

TOWER SHAFT BASES						ANCHOR BOLTS						
SHAFT SIZE	L	W	T	A	B	HOLE DIAM. D	WEIGHT LBS.*	BOLT DIAM.	WASHER	EMBED-MENT	PROJEC-TION	WEIGHT OF 4 BOLTS
6 5/8" x .188	1'-2"	1'-2"	1 1/4"	5"	5"	1 1/4"	117	1"	2 1/2" x 3/8"	1'-9"	3"	24
6 5/8" x .219												
8 5/8" x .188	1'-4"	1'-4"	1 1/2"	5 1/2"	5 1/2"	1 1/2"	155	1 1/4"	3" x 3/8"	2'-3"	3 3/4"	47
8 5/8" x .250												
10 3/4" x .219	1'-6"	1'-6"	2"	6 1/2"	6 1/2"	1 3/4"	226	1 1/2"	3 1/2" x 3/8"	2'-6"	4 1/4"	76
10 3/4" x .250												
12 3/4" x .250	1'-8"	1'-8"	2 1/4"	7 1/2"	7 1/2"	1 7/8"	247	1 1/2"	3 3/4" x 3/8"	2'-6"	4 1/4"	76
12 3/4" x .312	1'-10"	1'-8"	2 1/4"	8 1/2"	7 1/2"	2"	325	1 3/4"	4" x 3/8"	3'-3"	4 1/2"	129

* DOES NOT INCLUDE WEIGHT OF PIPE.

SHAFT SIZE	TRUSS SEAT		UPPER CHORD CLAMP **											
	DIMENSION A	DIMENSION B	WEIGHT IN LBS. FOR CHORD SIZE #						WEIGHT IN LBS. FOR CHORD SIZE #					
6 5/8"	6 3/8"	2 3/8"	19	20	21	23	24	28	23	25	27	29	31	36
8 5/8"	8 1/8"	3 1/4"	22	23	25	27	28	32	23	24	27	28	30	37
10 3/4"	9 13/16"	4 1/8"	25	27	28	30	32	37	22	24	26	28	29	36
12 3/4"	11 3/16"	5"	29	30	32	34	35	41	22	24	26	28	29	36

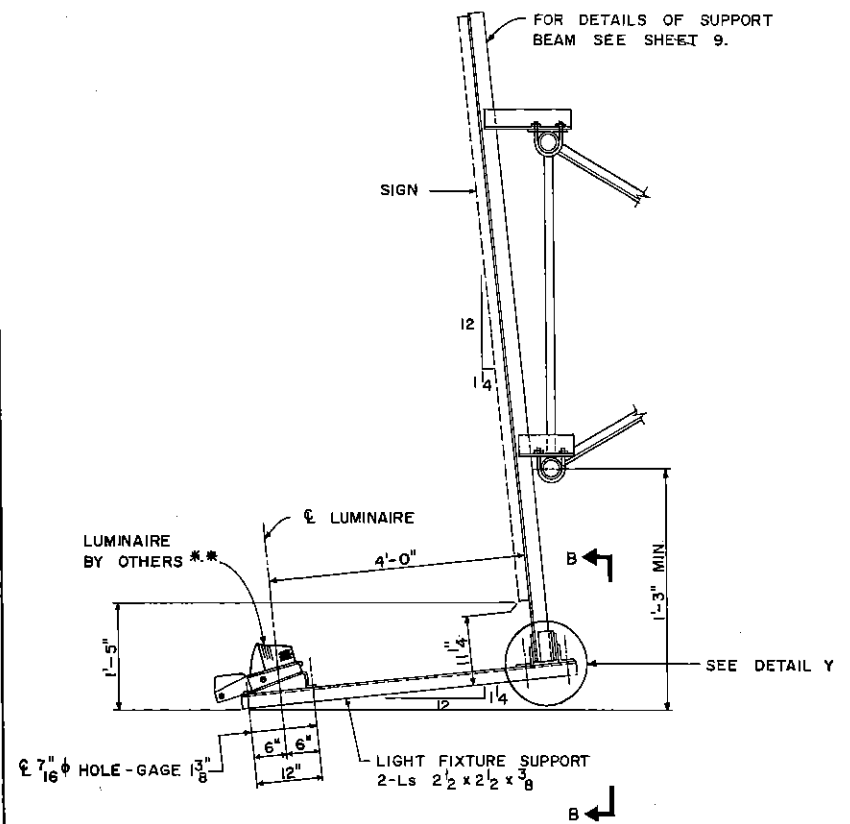
* INCLUDES 2 - 5/8" U-BOLTS, LOCK WASHERS AND NUTS

** INCLUDES 3/4" U-BOLT, LOCK WASHERS AND NUTS

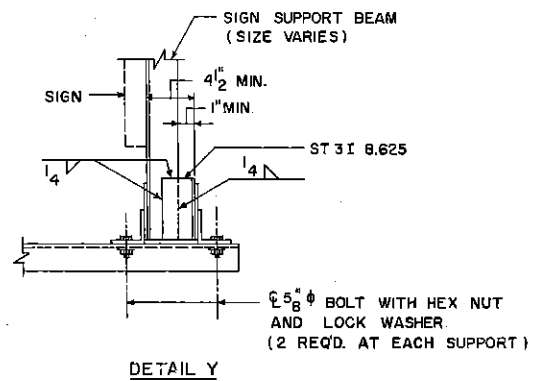
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC ENGINEERING		
OVERHEAD SIGN STRUCTURES STEEL SPANS OVER 50' TOWER DETAILS		
APPROVED _____	DATE _____	
CHIEF TRAFFIC ENGINEER		
APPROVED _____	DATE _____	
CHIEF ENGINEER		
SHEET	TRAFFIC STANDARD	No. 7717
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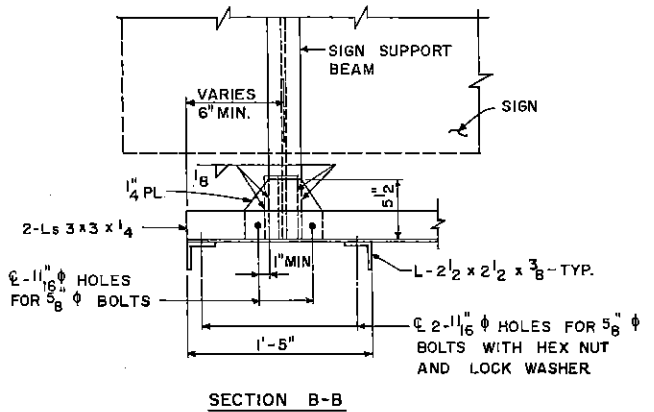
DISTRICT	COUNTY	ROUTE	SECTION	SHEET



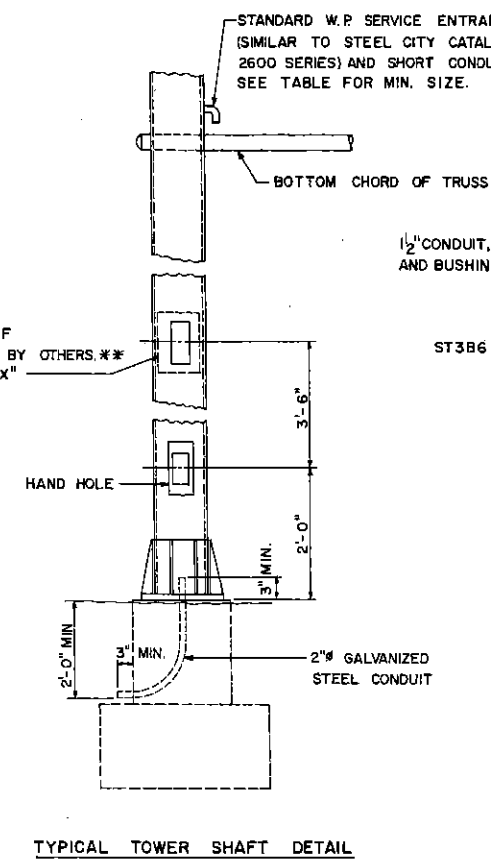
TYPICAL LIGHT FIXTURE SUPPORT DETAILS



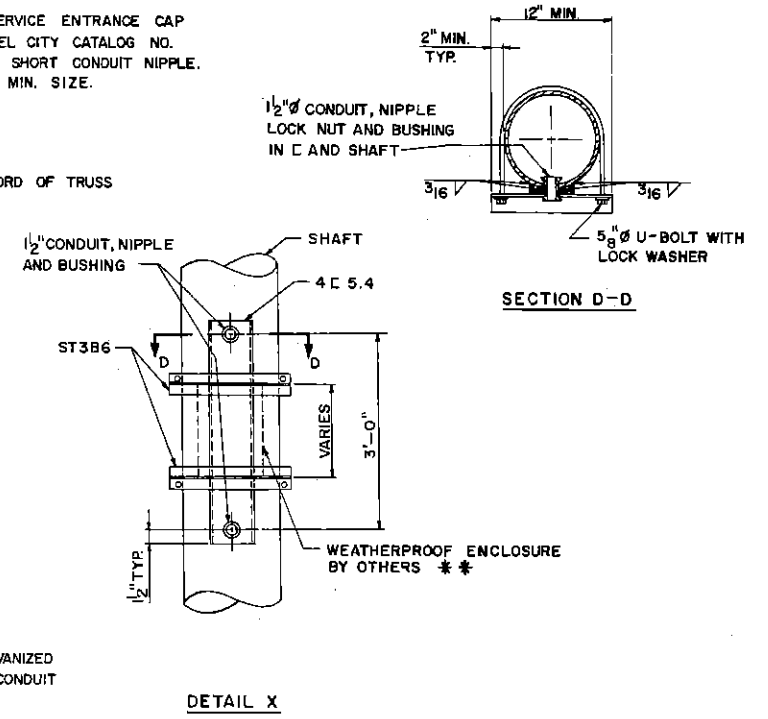
DETAIL Y



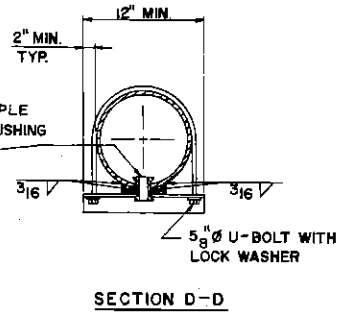
SECTION B-B



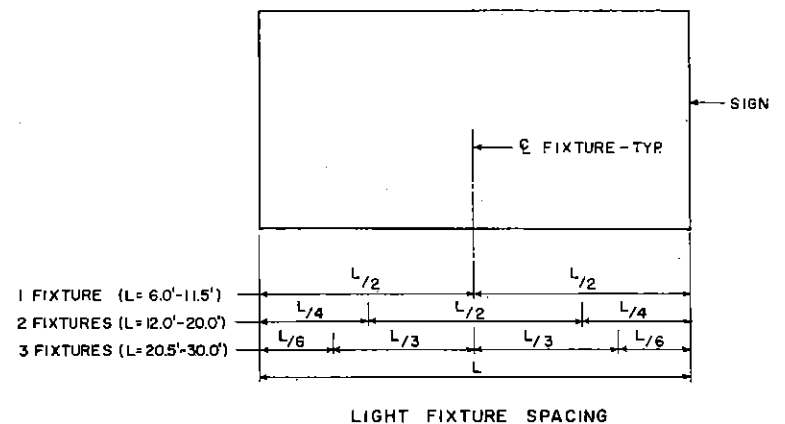
TYPICAL TOWER SHAFT DETAIL



DETAIL X



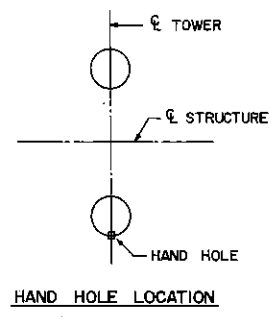
SECTION D-D



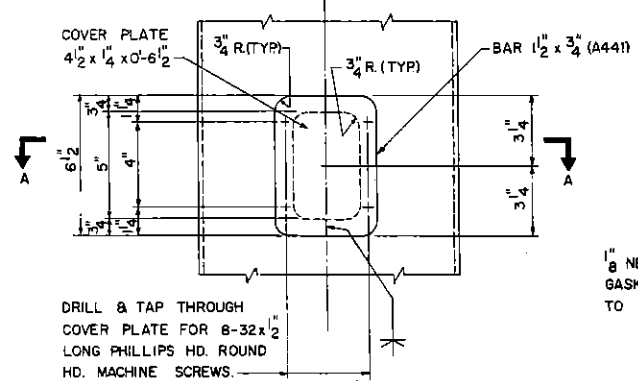
LIGHT FIXTURE SPACING

W. P. SERVICE ENTRANCE CAPS	
NO. OF SIGNS	CAP SIZE
1	3/4"
2	1"
3	1 1/4"
4	1 1/2"
5	1 3/4"

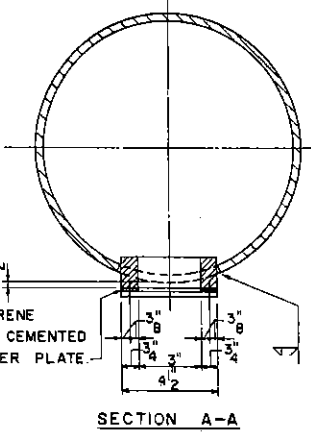
** MATERIAL AND EQUIPMENT NOTED "BY OTHERS" IS TO BE FURNISHED & INSTALLED UNDER SIGNING CONTRACT WHEN ELECTRICAL WORK IS A PART OF THAT CONTRACT.



HAND HOLE LOCATION



HAND HOLE DETAILS



SECTION A-A

5/8 U-BOLTS	
SHAFT SIZE	WT. LBS.
6"	1.83
8"	2.27
10"	2.72
12"	3.15
14"	3.60

NOTE: WEIGHTS GIVEN INCLUDES NUTS AND WASHERS.

REVISIONS	3-30-71
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NOTES:
 ALL OUTLET FITTINGS SHALL BE 90° ELBOWS, UNLESS NOTED.
 MATERIAL FOR PIPE SUPPORTS SHALL BE STRUCTURAL STEEL PIPE A.S.T.M. - A53 BUTT WELD.
 OTHER STEEL COMPONENTS SHALL BE STRUCTURAL STEEL A.S.T.M. - A36 UNLESS NOTED.
 ALL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH P.D.H. SPECIFICATIONS, CURRENT FORM 409.
 LAMP FIXTURES SHALL BE "WALLPACK" LUMINAIRE AS MANUFACTURED BY HOLOPHANE COMPANY INC. OR APPROVED EQUAL. FIXTURES FURNISHED BY OTHERS. **

LUMINAIRE

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF TRAFFIC ENGINEERING

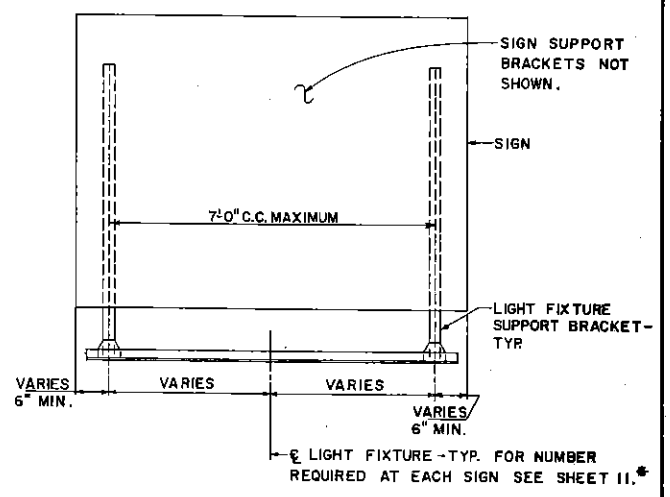
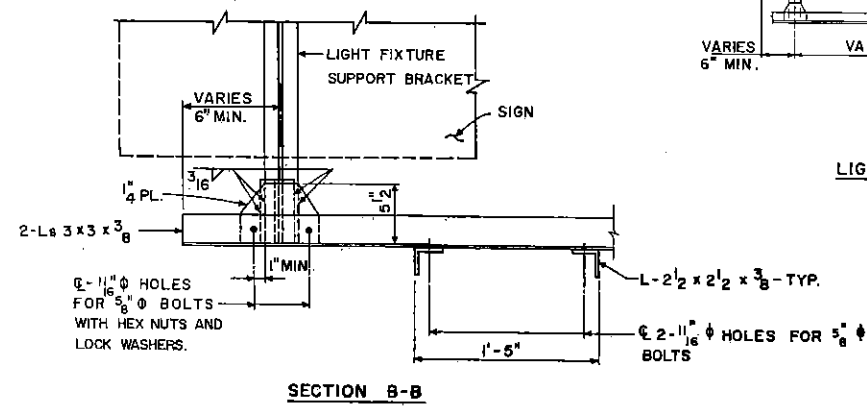
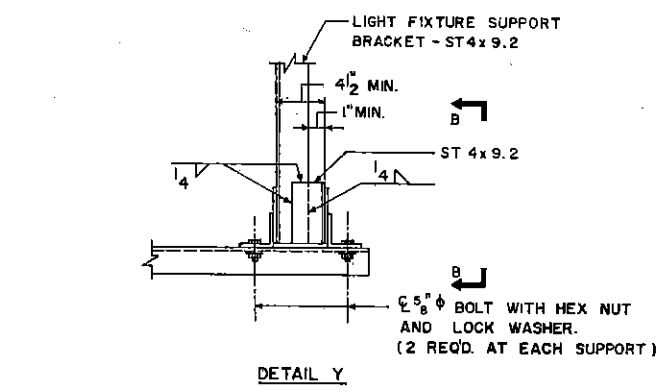
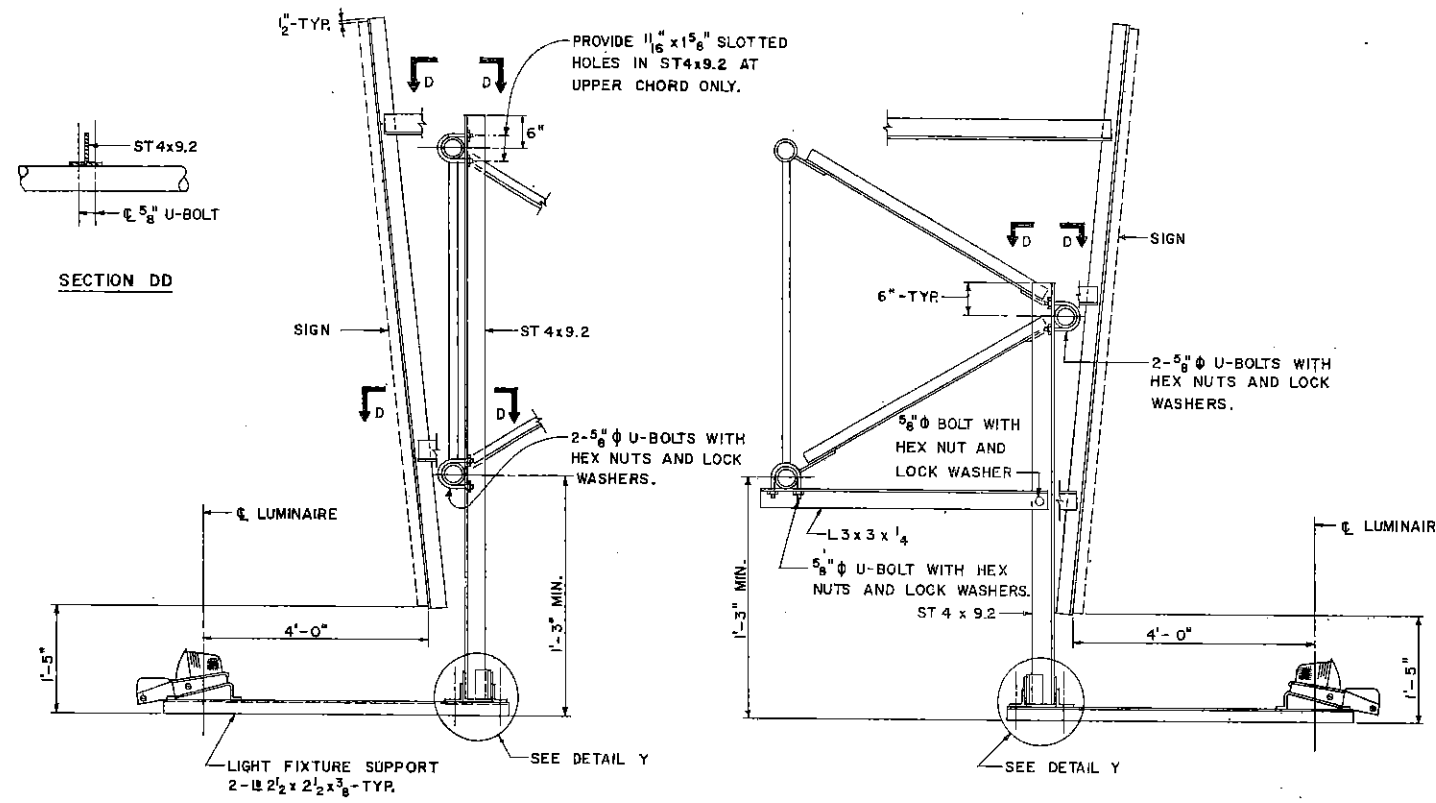
**OVERHEAD SIGN STRUCTURES
 STEEL SPANS OVER 50'
 LIGHT SUPPORT & HAND HOLE DETAILS**

APPROVED _____ DATE _____
CHIEF TRAFFIC ENGINEER

APPROVED _____ DATE _____
CHIEF ENGINEER

SHEET	TRAFFIC	No. 7717
11 OF 11	STANDARD	

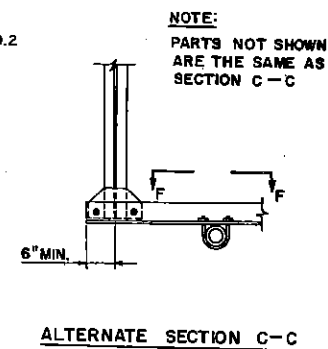
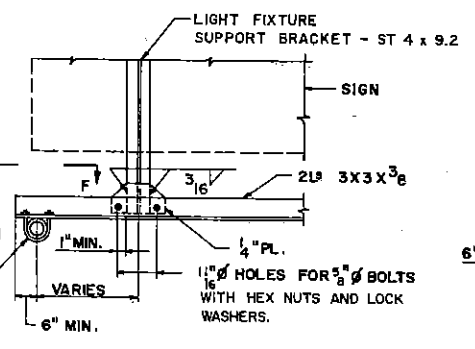
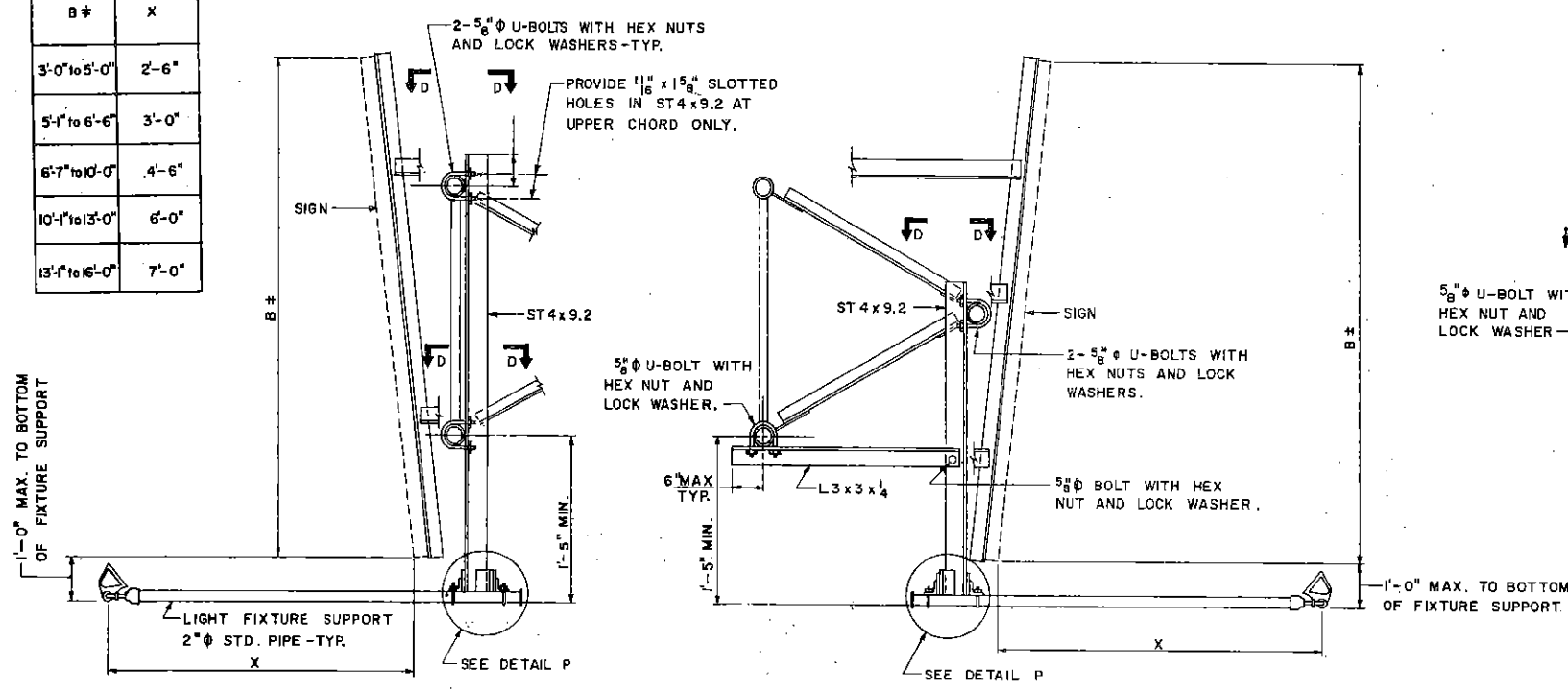
DISTRICT	COUNTY	ROUTE	SECTION	SHEET



*NOTE:
WHEN TWO OR MORE LIGHT FIXTURES ARE REQUIRED PLACE ONE ADDITIONAL LIGHT FIXTURE SUPPORT BRACKET BETWEEN FIXTURES.

SPECIAL LIGHT FIXTURE SUPPORT DETAILS-LUMINAIRE FOR STRUCTURE MOUNTED ON HIGHWAY BRIDGE

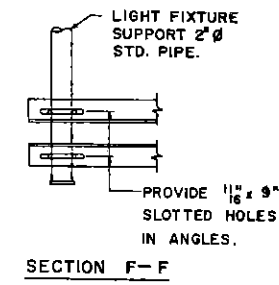
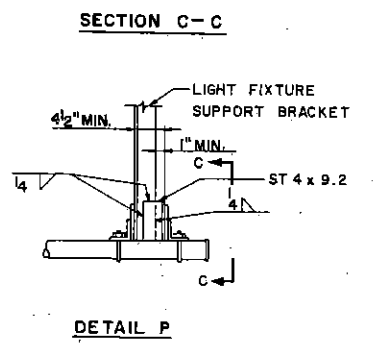
B #	X
3'-0" to 5'-0"	2'-6"
5'-1" to 6'-6"	3'-0"
6'-7" to 10'-0"	4'-6"
10'-1" to 13'-0"	6'-0"
13'-1" to 16'-0"	7'-0"



NOTE:
PARTS NOT SHOWN ARE THE SAME AS SECTION C-C

NOTES:
FOR NOTES AND ADDITIONAL LIGHTING DETAILS, SEE SHEET II.
APPLY TORQUE OF 25 FT.-LBS. TO ALL 5/8 U-BOLTS CONNECTING LIGHT FIXTURE SUPPORT BRACKETS TO TRUSS WHEN ERECTING IN FIELD. (THIS NOTE TO BE PLACED ON SHOP ERECTION DRAWINGS.)

SPECIAL LIGHT FIXTURE SUPPORT DETAILS-FLUORESCENT FOR STRUCTURE MOUNTED ON HIGHWAY BRIDGE



PROVIDE 1 1/16 x 9/16 SLOTTED HOLES IN ANGLES.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC ENGINEERING

OVERHEAD SIGN STRUCTURES
STEEL SPANS OVER 50'
SPECIAL LIGHT SUPPORT DETAILS
FOR BRIDGE MOUNTED STRUCTURE

APPROVED _____ DATE _____
CHIEF TRAFFIC ENGINEER

APPROVED _____ DATE _____
CHIEF ENGINEER

SHEET 11A OF 11 TRAFFIC STANDARD No. 7717

REVISIONS	8-4-71
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