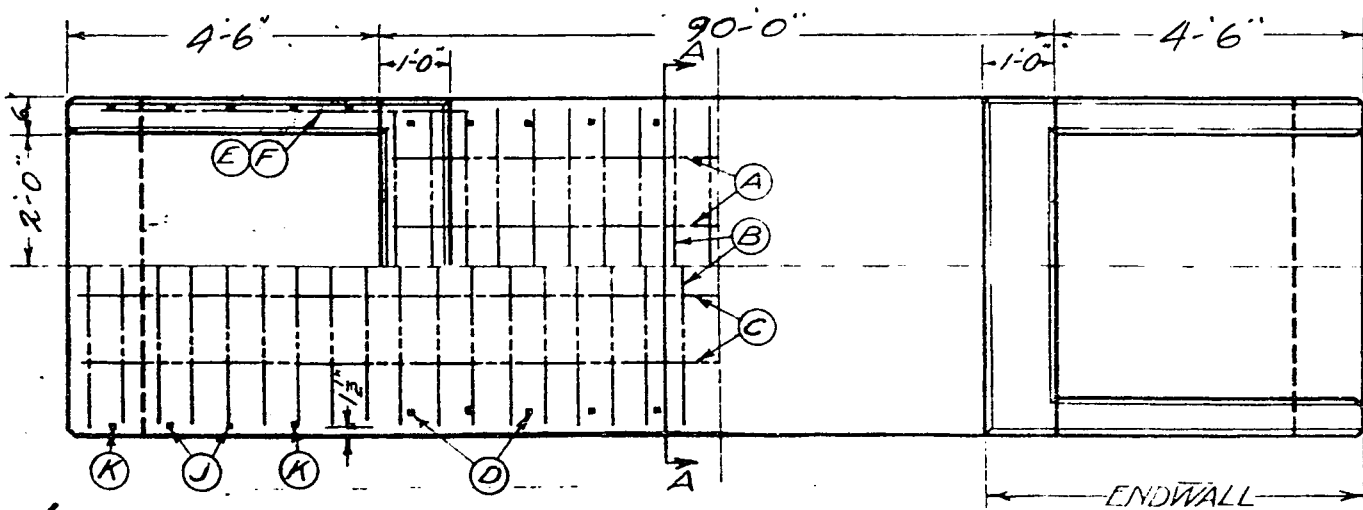
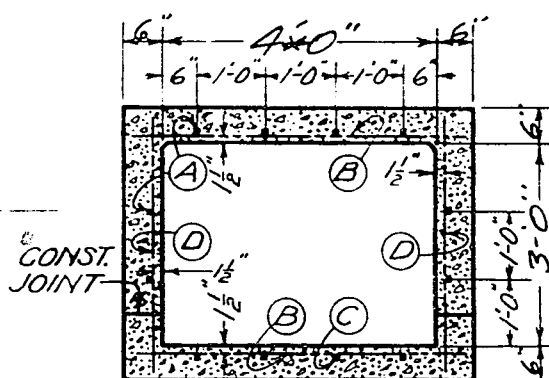


1/4 PLAN TOP REINFORCEMENT 1/2 PLAN FINISHED CULVERT



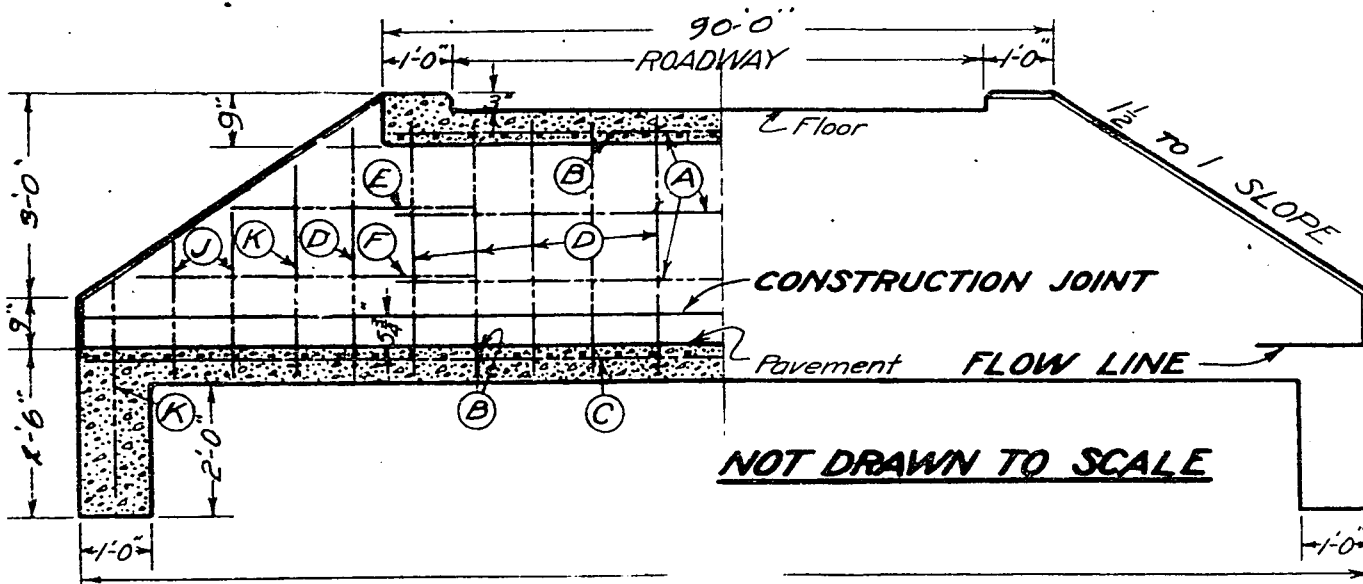
1/4 PLAN BOTTOM REINFORCEMENT

SECTION A-A



SHOWING REINFORCEMENT

MAXIMUM FILL = 10 FEET



1/2 TRANSVERSE SECTION ON 1/2 SIDE ELEVATION

END ELEVATION

GENERAL NOTES

All concrete shall be Class proportions. Slope barrel 1/4 inch per foot toward discharge end unless otherwise specified. Bottom to be poured monolithic to construction joint. Bevel all exposed edges

with a triangular strip from a 3/4 x 3/4 piece. Depth of cut-off wall to vary with soil conditions. All reinforcement shall be 1/2 square deformed mechanical bond bars properly supported with

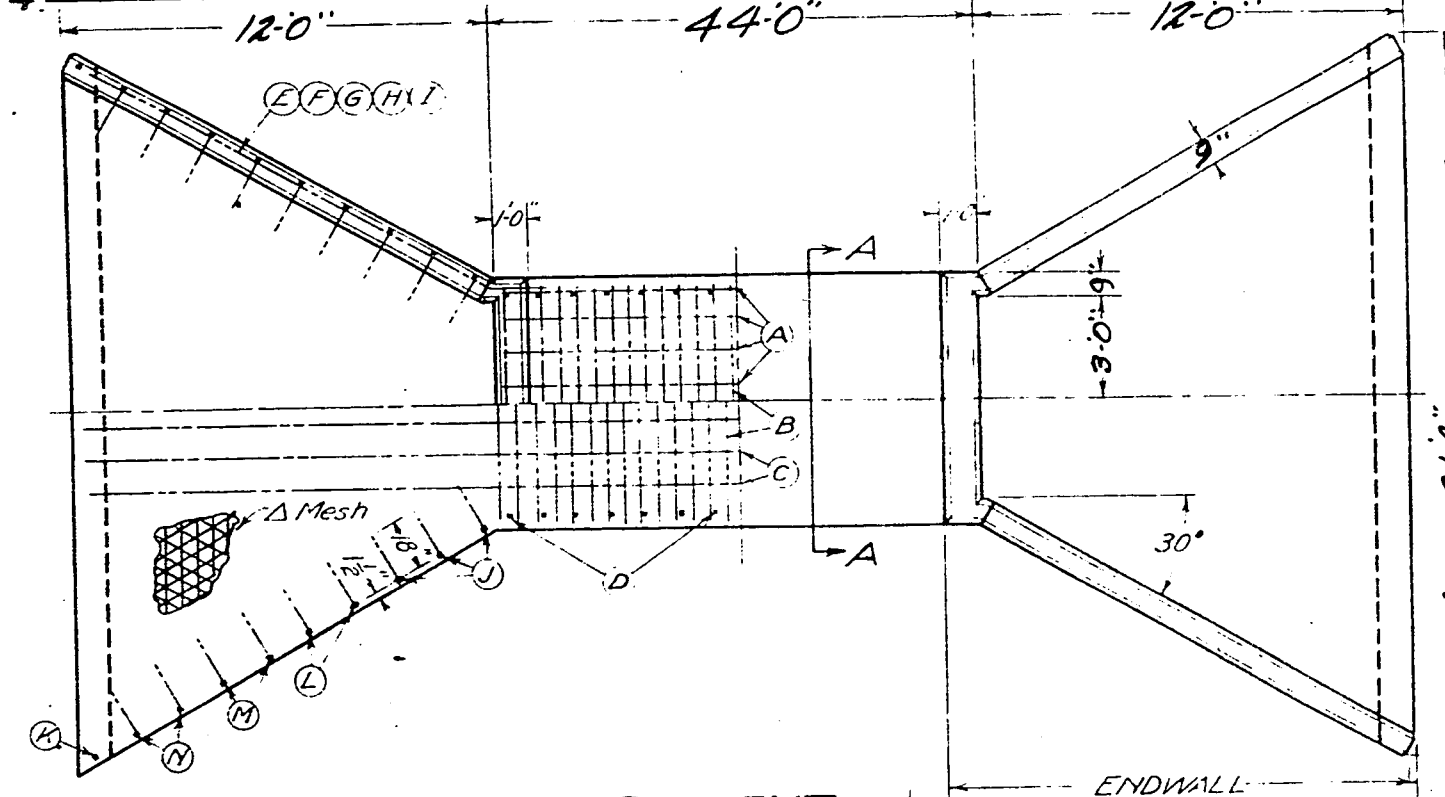
approved metallic bar spacers. Bars shall lap 40 diameters where spliced and shall be securely wired with #16 wire. Standard specifications of the Wisconsin Highway Commission.

Span & Height	3x3	4x3	5x3	6x3
Number	7	8	9	10
Length	89'-9"			
Spacing	1'-0"	1'-0"	1'-0"	1'-0"
Number	454			
Length	3'-9"	4'-9"	6'-1"	7'-3"
Spacing	0'-7"	0'-5"	0'-5"	0'-4"
Number	3	4	5	6
Length	98'-9"			
Spacing	1'-0"	1'-0"	1'-0"	1'-0"
Number	184			
Length	3'-9"	3'-9"	4'-1"	4'-3"
Spacing	1'-0"	1'-0"	1'-0"	1'-0"
Number	4	4	4	4
Length	3'-6"	3'-6"	3'-9"	3'-10"
Spacing	1'-0"	1'-0"	1'-0"	1'-0"
Number	4	4	4	4
Length	5'-0"	5'-0"	5'-3"	5'-4"
Spacing	1'-0"	1'-0"	1'-0"	1'-0"
Number	8	8	8	8
Length	2'-6"	2'-6"	2'-10"	3'-0"
Spacing	1'-0"	1'-0"	1'-0"	1'-0"
Number	8	8	8	8
Length	3'-3"	3'-3"	3'-7"	3'-9"
Spacing	1'-0"	1'-0"	1'-0"	1'-0"
T	6"	6"	8"	9"
Cu. Yds. Conc.		29.05		
Cu. Yds. Conc. Lin. Ft. Bbl.	.259	.296	.461	.584
Lbs. Steel		3430		
Lbs. Steel per Lin. Ft.	25.80	35.95	43.67	57.80
Concrete in 1 Endwall	1.30	1.50	2.23	2.77

**STANDARD DESIGN
CONCRETE BOX CULVERT
1/2 to 1 SLOPING ENDWALLS
SIZE: 4x3x90' STA. 31+00**

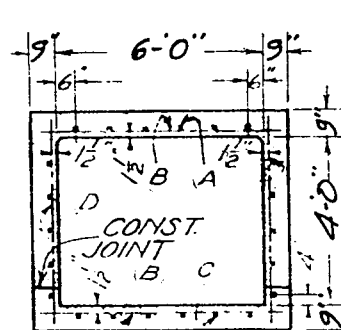
WISCONSIN HIGHWAY COMMISSION
Correct:- *J. Crane*
Approved:- *J. Crane*
Approved:- *W. S. Buntow*
9/11/27 C-ST 12.1

1/4 PLAN TOP REINFORCEMENT 1/2 PLAN FINISHED CULVERT



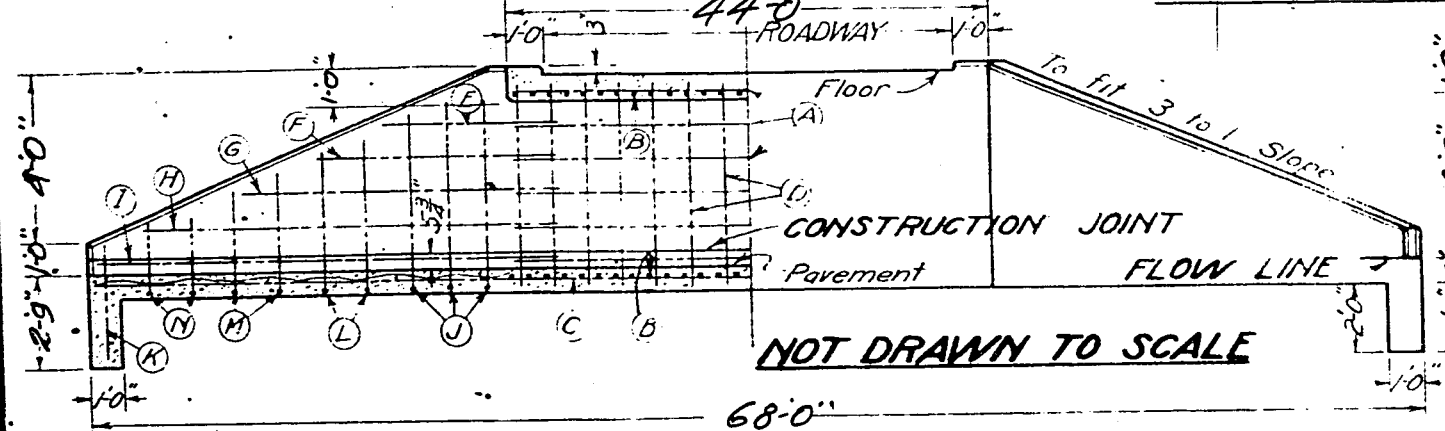
1/4 PLAN BOTTOM REINFORCEMENT

SECTION A-A



SHOWING REINFORCEMENT

MAXIMUM FILL = 10 FEET



1/2 TRANSVERSE SECTION ON 1/2 SIDE ELEVATION

1/2 END ELEVATION

GENERAL NOTES

All concrete shall be Class proportions. Slope barrel 1/4 inch per foot toward discharge end unless otherwise specified. Bottom to be poured monolithic to construction joint. Bevel all exposed edges with a triangular strip from a 3/4 x 3/4

piece. Depth of cut-off wall to vary with soil conditions. All bar reinforcement shall be 1/2 square deformed mechanical bond bars properly supported with approved metallic bar spacers. Bars shall lap 40 diameters where

spliced, and shall be securely wired with #16 wire. Triangular wire mesh, #32 A.S. & W. or heavier shall be used in the pavement between wings. Standard specifications of the Wisconsin Highway Commission.

Span & Height	4x4	5x4	5x5	6x4	6x5	6x6
Number	12@1'-0"	13@1'-0"	15@1'-0"	14@1'-0"	16@1'-0"	18@1'-0"
Length				43'-9"		
Number				264		
Length	4'-9"	6'-1"	6'-1"	7'-3"	7'-3"	7'-3"
Spacing	0'-5"	0'-5"	0'-5"	0'-4"	0'-4"	0'-4"
Number	4@1'-0"	5@1'-0"	5@1'-0"	6@1'-0"	6@1'-0"	6@1'-0"
Length				67'-9"		
Number				88@1'-0"		
Length	4'-9"	5'-1"	6'-1"	5'-3"	6'-3"	7'-3"
Number	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"
Length	6'-0"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"
Number	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"
Length	9'-3"	9'-9"	9'-9"	9'-9"	9'-9"	9'-9"
Number	8@1'-0"	8@1'-0"	8@1'-0"	8@1'-0"	8@1'-0"	8@1'-0"
Length	12'-6"	13'-0"	13'-0"	13'-0"	13'-0"	13'-0"
Number	0	0	8@1'-0"	0	8@1'-0"	1@1'-0"
Length			16'-6"		16'-6"	16'-6"
Number	0	0	0	0	0	8@1'-0"
Length						20'-0"
Number	16@1'-0"	16@1'-0"	16@1'-0"	16@1'-0"	16@1'-0"	20@1'-0"
Length	5'-6"	6'-0"	7'-0"	6'-0"	7'-0"	7'-6"
Number	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"	4@1'-0"
Length	3'-0"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"
Number	12@1'-0"	12@1'-0"	16@1'-0"	12@1'-0"	16@1'-0"	20@1'-0"
Length	4'-6"	5'-0"	5'-9"	5'-0"	5'-9"	6'-3"
Number	12@1'-0"	12@1'-0"	16@1'-0"	12@1'-0"	16@1'-0"	20@1'-0"
Length	3'-9"	4'-3"	4'-6"	4'-3"	4'-6"	4'-6"
Number	12@1'-0"	12@1'-0"	16@1'-0"	12@1'-0"	16@1'-0"	16@1'-0"
Length	3'-0"	3'-6"	3'-6"	3'-6"	3'-6"	3'-6"
T	6"	8"	8"	9"	9"	9"
W	18'-10"	20'-2"	23'-6"	21'-4"	24'-8"	28'-2"
Cu. Yds. Conc.				45.7		
Cu. Yds. Conc. Lin. Ft. Bbl.	.333	.510	.560	.639	.694	.750
Lbs. Steel	5.83	8.50	10.78	9.41	12.66	16.45
Lbs. Steel per Lin. Ft.	41.05	48.75	52.17	62.90	66.30	69.70
Concrete in 1 Endwall	162	182	253	198	274	361

**STANDARD DESIGN
CONCRETE BOX CULVERT
FLARED ENDWALLS FILL SLOPE 3-1
SIZE 6x4x44' STA. 457+57**

WISCONSIN HIGHWAY COMMISSION
Correct:- *J. Crane*
Approved:- *J. Crane*
Approved:- *W. S. Buntow*
9/11/27 E-FL-3:1