45° SKEW 24'-0" – 25'-6" BRIDGE WIDTH 2:1 FILL SLOPES

Bill of Reinforcement

MARK	A1				A2				A3			A4			A5			A6										A7			A8			A9			A10			A11			A12			A13			A14			A15			A16			A17			A18		
TYPE	Str.				Str.				Str.			Str.			Str.			4										Str.			Str.			#5			8			8			8			8			7			7			Str.			Str.			Str.		
SIZE									#5			#5			#5																		#5			#5			#5			#5			#5			#5			#5			#5			#5			#5		
H	No.	Size	Length ft.	Length in.	No.	Size	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Size	Length ft.	Length in.	Spacing	A ft.	A in.	B ft.	B in.	C ft.	C in.	D ft.	D in.	No.	Size	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.	No.	Length ft.	Length in.
15–16	101	10	11	8	12	101	7	11	8	12	24	20	6	24	38	11	24	50	9	98	9	9	11	12	8	⅛	1	10	0	11⅜	8	6	102	5	4	11	12	98	6	12	10	12	102	12	10	12	14	41	8	14	38	2	14	18	6	14	18	1	14	52	3	14	48	1	2	45	0	2	21	11	140	5	9
13–14	95	9	10	8	12	95	7	10	8	12	22	18	2	22	34	10	22	50	4	92	8	8	3	12	6	11	1	3	0	8	7	3	96	5	4	11	12	92	6	10	10	12	96	10	10	12	12	37	9	12	34	2	12	16	6	12	16	1	12	52	4	12	48	1	2	41	0	2	19	11	128	5	9
11–12	90	8	9	8	12	90	6	9	8	12	20	15	10	20	29	9	20	49	11	85	7	7	1	12	5	10½	1	2	0	7	6	2	89	5	4	11	12	85	5	8	10	12	89	8	10	12	10	32	9	10	29	2	10	14	6	10	14	1	10	52	4	10	48	1	2	36	0	2	17	11	114	5	9
9–10	83	7	8	8	12	83	5	8	8	12	18	13	6	18	24	8	18	49	6	78	6	6	1	12	5	1	1	0	0	6	5	4	82	5	4	11	12	78	5	6	10	12	82	6	10	12	8	27	9	8	24	2	8	12	6	8	12	1	8	52	4	8	48	1	2	31	0	2	15	11	100	5	9
7–8	78	6	7	2	12	78	5	7	2	12	16	10	11	16	18	11	16	48	7	71	5	5	7	12	4	8½	0	10	0	5	4	11	75	5	4	11	12	71	5	4	10	12	75	4	10	12	6	22	10	6	19	2	6	10	6	6	10	1	6	52	5	6	48	1	2	26	0	2	13	11	86	5	9
5–6	71	5	6	2	12	71	5	6	2	12	14	8	7	14	13	9	14	48	2	64	5	5	7	12	4	8½	0	10	0	5	4	11	68	5	4	11	12	64	5	2	10	12	68	2	10	12	4	17	10	4	14	2	4	8	6	4	8	1	4	52	5	4	48	1	2	21	0	2	11	11	72	5	9

Reinforcement Details

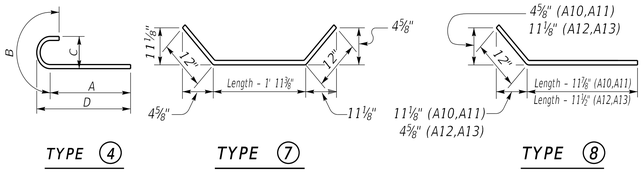


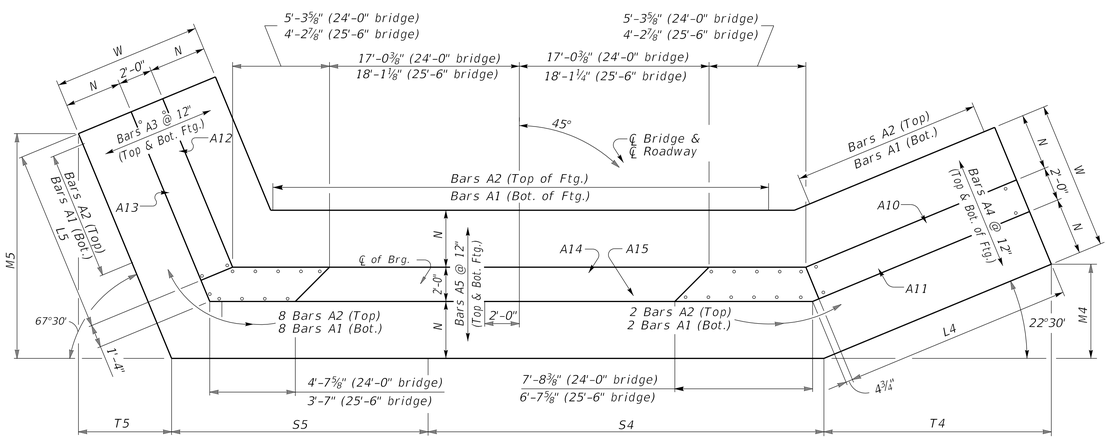
Table of Dimensions

H	W Length ft.	W Length in.	N Length ft.	N Length in.	M4 Length ft.	M4 Length in.	M5 Length ft.	M5 Length in.	S4 Length ft.	S4 Length in.	S5 Length ft.	S5 Length in.	T4 Length ft.	T4 Length in.	T5 Length ft.	T5 Length in.	L4 Length ft.	L4 Length in.	L5 Length ft.
15–16	12	0	5	0	14	8¼	19	1¼	30	8⅝	20	⅛	35	5⅝	7	11	37	16	
13–14	11	0	4	6	13	1½	16	11⅜	30	1½	20	2⅛	31	8¼	7	⅛	33	14	
11–12	10	0	4	0	11	2	14	9½	29	6⅞	20	4⅛	26	11⅜	6	1½	28	12	
9–10	9	0	3	6	9	2⅝	12	7⅞	28	11⅛	20	6⅛	22	3½	5	2¾	23	10	
7–8	7	6	2	9	7	3	10	3⅛	28	⅜	20	9⅛	17	6	4	3⅜	18	8	
5–6	6	6	2	3	5	3⅝	8	2	27	5⅛	20	11⅛	12	9½	3	4⅜	13	6	

REVISION DATE: 08/11/2025
REVISION NUMBER: 0

SUBMITTED — DIVISION DIRECTOR — 08-11-2025 DATE
APPROVED — STATE HIGHWAY ENGINEER — 08-11-2025 DATE

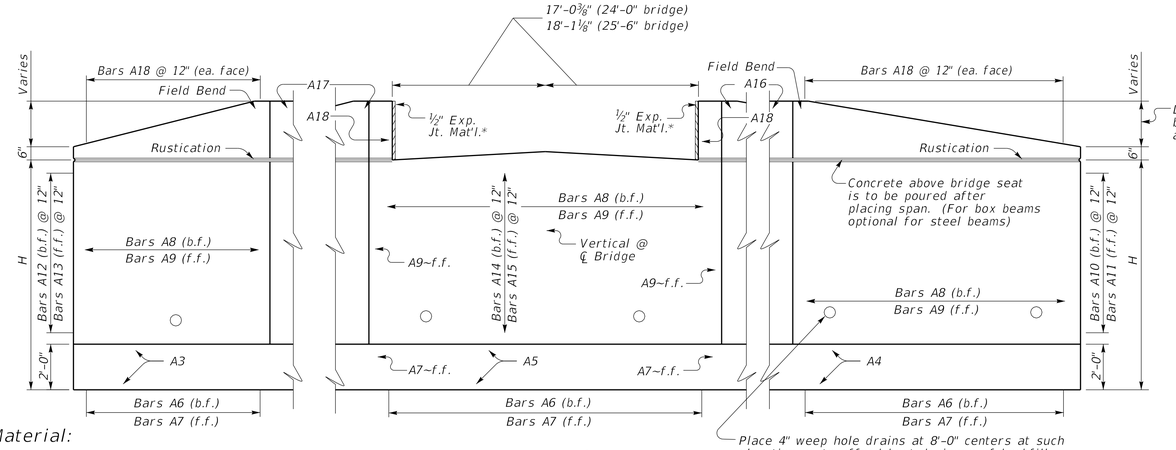
4 foot min. shoulder



(Left Skew as shown;right skew opp. hand)

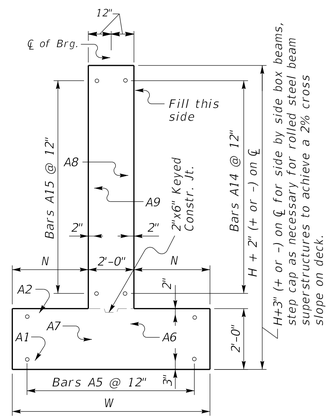
PLAN

NOTE: Trim A16 & A17 bars if necessary

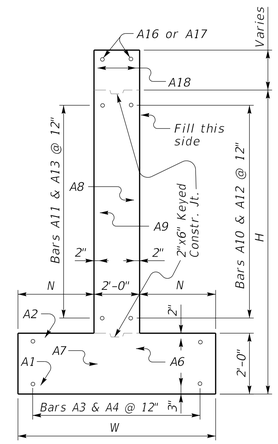


ELEVATION

*Expansion Joint Material:
AASHTO M153
Type-I Sponge Rubber



WALL SECTION



WING SECTION

Quantities

H	Concrete* C.Y.	Reinforcement LBS.
5	50.3	4189
6	55.2	4189
7	72	5902
8	77.4	5902
9	99.8	8339
10	105.7	8339
11	128	11734
12	134.4	11734
13	159.4	16476
14	166.3	16476
15	191.8	21351
16	199.2	21351

*Concrete quantities computed using 21" beam depth on ½" pad & 24'-0" Bridge Width

GENERAL NOTES

SPECIFICATIONS: Construct abutments according to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction. Abutments are designed for side by side box beams as detailed in Standard Drawings BDP-001 through BDP-012, current edition. Dimensions may be adjusted to allow for 25'-6" rolled steel beam bridge width.

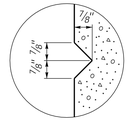
FOUNDATION PRESSURE: Construct abutment footings on solid rock bearing material that can support a pressure of 8000 psf service or 10,800 psf strength factored as recommended by a geotechnical engineer.

WING LENGTHS: Calculated assuming 21" superstructure depth and stream bank elevation at top of footing.

FOOTING ELEVATION: Construct bottom of footing below the anticipated scour elevation. (This typically entails embedding the footings 1'-0" to 2'-0" into rock and pouring concrete directly against cut rock faces as recommended by geotechnical engineer.)

NOTE: Distances to bars shown are clear dimensions unless otherwise noted.

MATERIAL SPECIFICATIONS:
Concrete, Class "A" = 3500 psi
Steel Reinforcement = Grade 60



RUSTICATION GROOVE

BRIDGE STANDARDS

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

45° SKEW 24'-0" - 25'-6" BRIDGE WIDTH ABUTMENT 2:1 FILL SLOPES, 4'-0" MIN. SHOULDER

STANDARD DRAWING NUMBER
BSA-111-01