0° 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.			Str.			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.	in.	Stag'ngs	No.	Size	Length ft.	in.	Stag'ngs	No.	Length ft.	in.	No.	Length ft.	in.	No.	Length ft.	in.	No.	Size	Length ft.	in.	Stag'ngs	A ft.	in.	B ft.	in.	C ft.	in.	D ft.	in.	No.	Size	Length ft.	in.	Stag'ngs	No.	Size	Length ft.	in.	Stag'ngs	No.	Length ft.	in.	Stag'ngs	No.	Length ft.	in.	Stag'ngs	No.	Length ft.	in.	Stag'ngs	No.	Length ft.	in.	Stag'ngs	No.	Length ft.	in.	Stag'ngs	No.	Length ft.	in.	No.	Length ft.	in.
15-16	76	10	11	8	12	76	7	11	8	12	24	24	0	24	24	0	24	37	10	74	9	9	11	12	8	⅛	1	10	0	11⅞	8	6	77	5	4	11	12	74	6	12	10	12	77	12	10	12	14	24	0	14	22	7	14	24	0	14	22	7	14	37	11	14	35	0	2	26	4	2	26	4	108	5	9
13-14	72	9	10	8	12	72	7	10	8	12	22	20	9	22	20	9	22	37	5	68	8	8	3	12	6	11	1	3	0	8	7	3	71	5	4	11	12	68	6	10	10	12	71	10	10	12	12	21	0	12	19	7	12	21	0	12	19	7	12	37	11	12	35	0	2	23	4	2	23	4	96	5	9
11-12	69	8	9	8	12	69	6	9	8	12	20	18	7	20	18	7	20	37	0	64	7	7	1	12	5	10½	1	2	0	7	6	2	67	5	4	11	12	64	5	8	10	12	67	8	10	12	10	19	0	10	17	7	10	19	0	10	17	7	10	37	11	10	35	0	2	21	4	2	21	4	88	5	9
9-10	65	7	8	8	12	65	5	8	8	12	18	16	4	18	16	4	18	36	7	60	6	6	1	12	5	1	1	0	0	6	5	4	63	5	4	11	12	60	5	6	10	12	63	6	10	12	8	17	0	8	15	7	8	17	0	8	15	7	8	38	0	8	35	0	2	19	4	2	19	4	80	5	9
7-8	58	6	7	2	12	58	5	7	2	12	16	11	9	16	11	9	16	35	6	52	5	5	7	12	4	8½	0	10	0	5	4	11	55	5	4	11	12	52	5	4	10	12	55	4	10	12	6	13	0	6	11	7	6	13	0	6	11	7	6	38	0	6	35	0	2	15	4	2	15	4	64	5	9
5-6	56	5	6	2	12	56	5	6	2	12	14	9	7	14	9	7	14	35	1	48	5	5	7	12	4	8½	0	10	0	5	4	11	51	5	4	11	12	48	5	2	10	12	51	2	10	12	4	11	0	4	9	7	4	11	0	4	9	7	4	38	0	4	35	0	2	13	4	2	13	4	56	5	9

Reinforcement Details

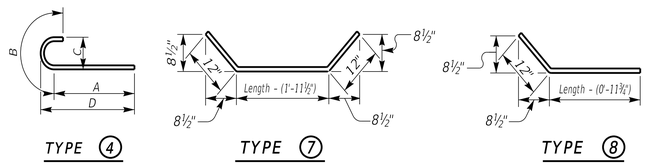
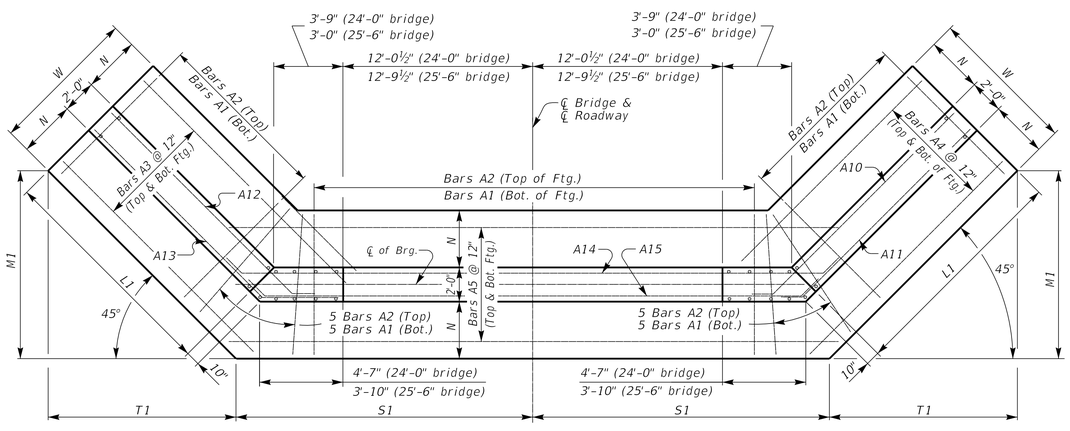


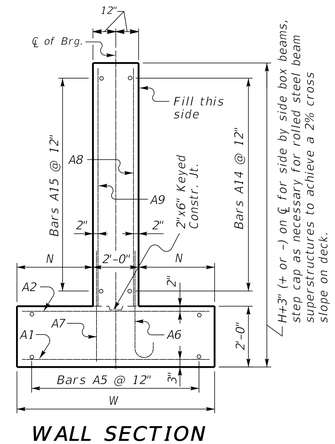
Table of Dimensions

H	W Length ft.	in.	N Length ft.	in.	M1 Length ft.	in.	S1 Length ft.	in.	T1 Length ft.	in.	L1 Length ft.
15-16	12	0	5	0	16	10⅞	18	8¼	16	10⅞	21
13-14	11	0	4	6	14	7⅞	18	5⅞	14	7⅞	18
11-12	10	0	4	0	13	⅞	18	3⅜	13	⅞	16
9-10	9	0	3	6	11	6⅛	18	⅞	11	6⅛	14
7-8	7	6	2	9	8	5½	17	9⅛	8	5½	10
5-6	6	6	2	3	6	10⅞	17	6⅞	6	10⅞	8

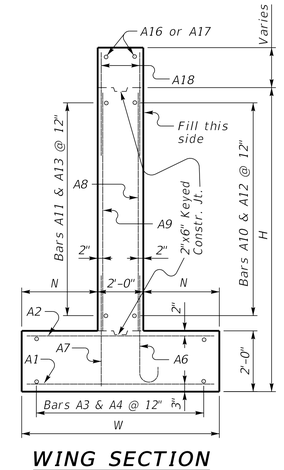
4 foot min. shoulder



PLAN



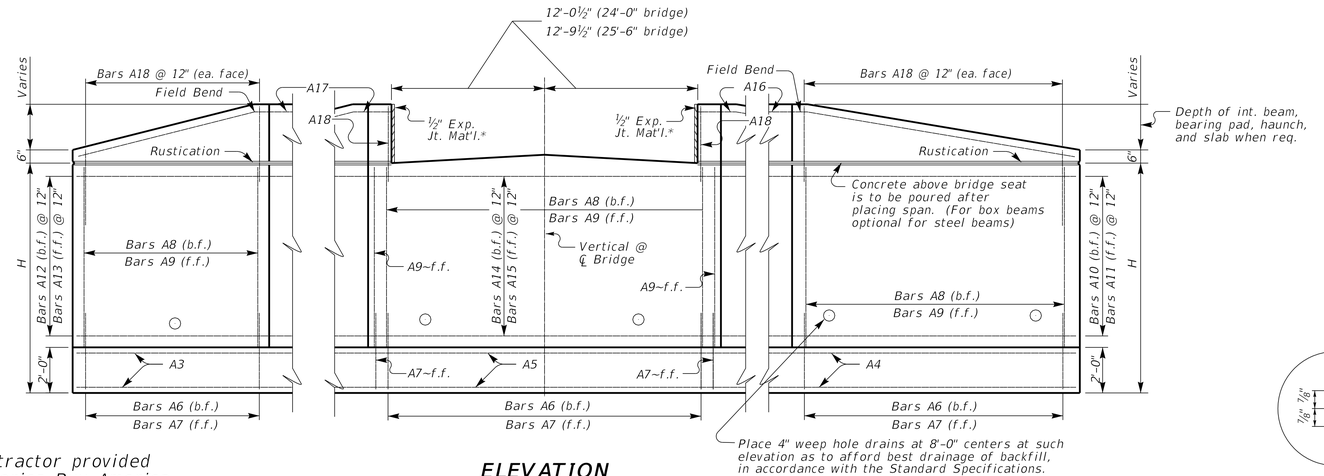
WALL SECTION



WING SECTION

Quantities		
H	Concrete* C.Y.	Reinforcement LBS.
5	38	3223
6	41.7	3223
7	53.1	4392
8	57	4392
9	77.2	6520
10	81.7	6520
11	96.8	8974
12	101.7	8974
13	118.2	12385
14	123.4	12385
15	145.4	16223
16	150.9	16223

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



ELEVATION

NOTE: Trim A16 & A17 bars if necessary

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.

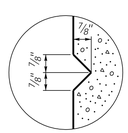
WING LENGTHS: Calculated assuming 21" superstructure depth and stream bank elevation at top of footing.

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

*Expansion Joint Material:
AASHTO M153
Type-I Sponge Rubber
Type-II Cork permitted with contractor provided documentation that the Build America Buy America requirments are satisfied.



RUSTICATION GROOVE

SUBMITTED _____ DIVISION DIRECTOR — 10/25/2024 DATE

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
TEAM KENTUCKY Transportation Cabinet

DRAWING TITLE: SEPIA 080 - 0° SKEW 24'-0"-25'-6" BRIDGE WIDTH 2:1 FILL SLP, 4' MIN. SHLDR.

ITEM NO. COUNTY OF
SHEET NO.