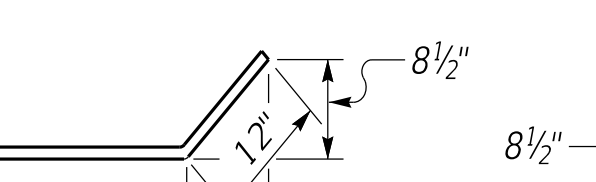
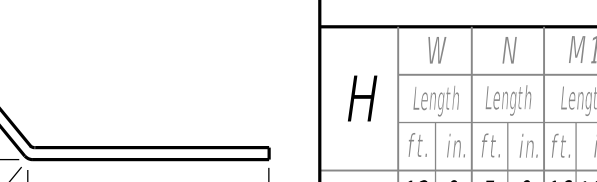


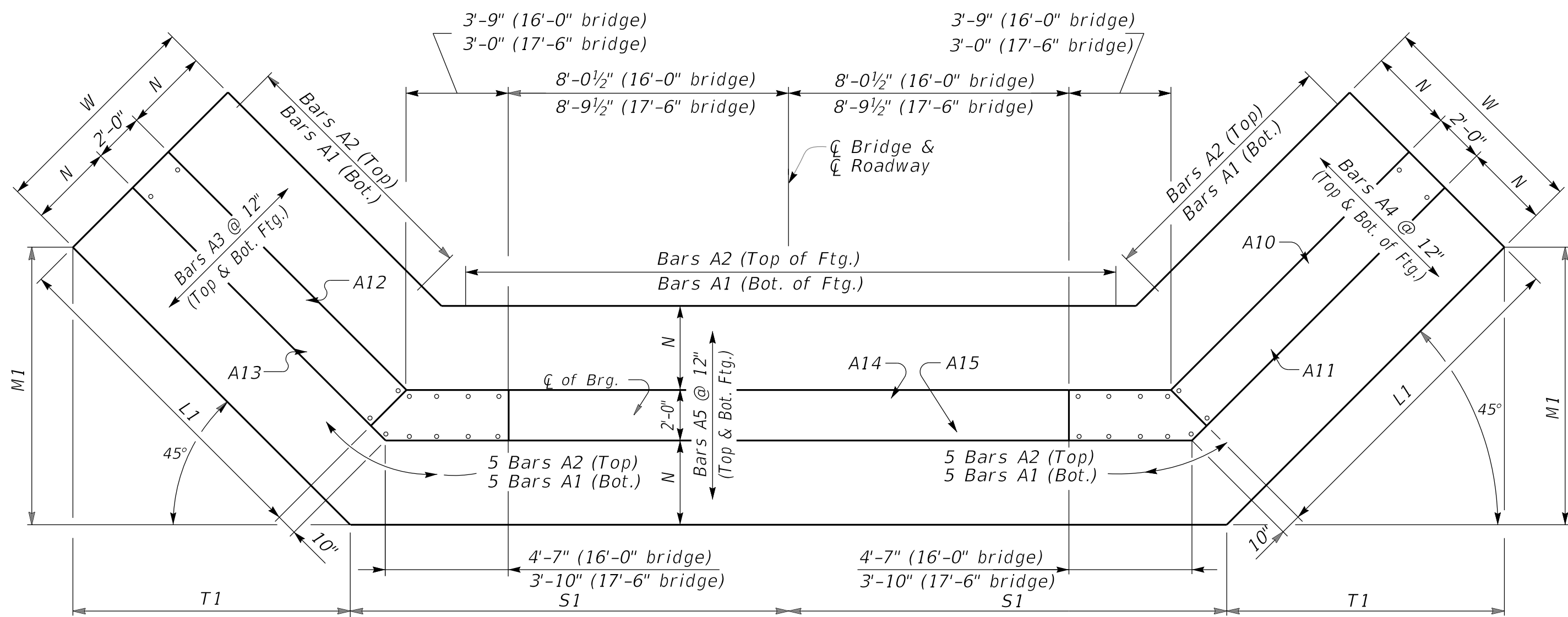
0° SKEW 16'-0" - 17'-6" BRIDGE WIDTH 2:1 FILL SLOPES

Bill of Reinforcement																									Reinforcement Details										Table of Dimensions																																							
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	Spacing	No	Size	Length	Spacing	No	Length	No	Length	No	Length	No	Length	No	Length	No	Length	No	Length	No	Length	No	Length	No	Length																																														
	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.																																														
15-16	68	10	11	8	12	68	7	11	8	12	24	24	0	24	24	0	24	29	10	66	9	9	11	12	8	1/8	1	10	0	11	3	8	6	69	5	4	11	12	66	6	12	10	12	69	12	10	12	14	24	0	14	22	7	14	24	0	14	22	7	14	29	11	14	27	0	2	26	4	2	26	4	108	5	9
13-14	64	9	10	8	12	64	7	10	8	12	22	20	9	22	20	9	22	29	5	60	8	8	3	12	6	11	1	3	0	8	7	3	63	5	4	11	12	60	6	10	10	12	63	10	10	12	12	21	0	12	19	7	12	21	0	12	19	7	12	29	11	12	27	0	2	23	4	2	23	4	96	5	9	
11-12	61	8	9	8	12	61	6	9	8	12	20	18	7	20	18	7	20	29	0	56	7	7	1	12	5	10	1	2	0	7	6	2	59	5	4	11	12	56	5	8	10	12	59	8	10	12	10	19	0	10	17	7	10	29	11	10	27	0	2	21	4	2	21	4	88	5	9							
9-10	57	7	8	8	12	57	5	8	8	12	18	16	4	18	16	4	18	28	7	52	6	6	1	12	5	1	1	0	0	6	5	4	55	5	4	11	12	52	5	6	10	12	55	6	10	12	8	17	0	8	15	7	8	17	0	8	15	7	8	30	0	8	27	0	2	19	4	2	19	4	80	5	9	
7-8	50	6	7	2	12	50	5	7	2	12	16	11	9	16	11	9	16	27	6	44	5	5	7	12	4	8	1	0	0	5	4	11	47	5	4	11	12	44	5	4	10	12	47	4	10	12	6	13	0	6	11	7	6	13	0	6	27	0	2	15	4	2	15	4	64	5	9							
5-6	48	5	6	2	12	48	5	6	2	12	14	9	7	14	9	7	14	27	1	40	5	5	7	12	4	8	1	0	0	5	4	11	43	5	4	11	12	40	5	2	10	12	43	2	10	12	4	11	0	4	9	7	4	11	0	4	9	7	4	30	0	4	27	0	2	13	4	2	13	4	56	5	9	

																													
TYPE 4										TYPE 7										TYPE 8									

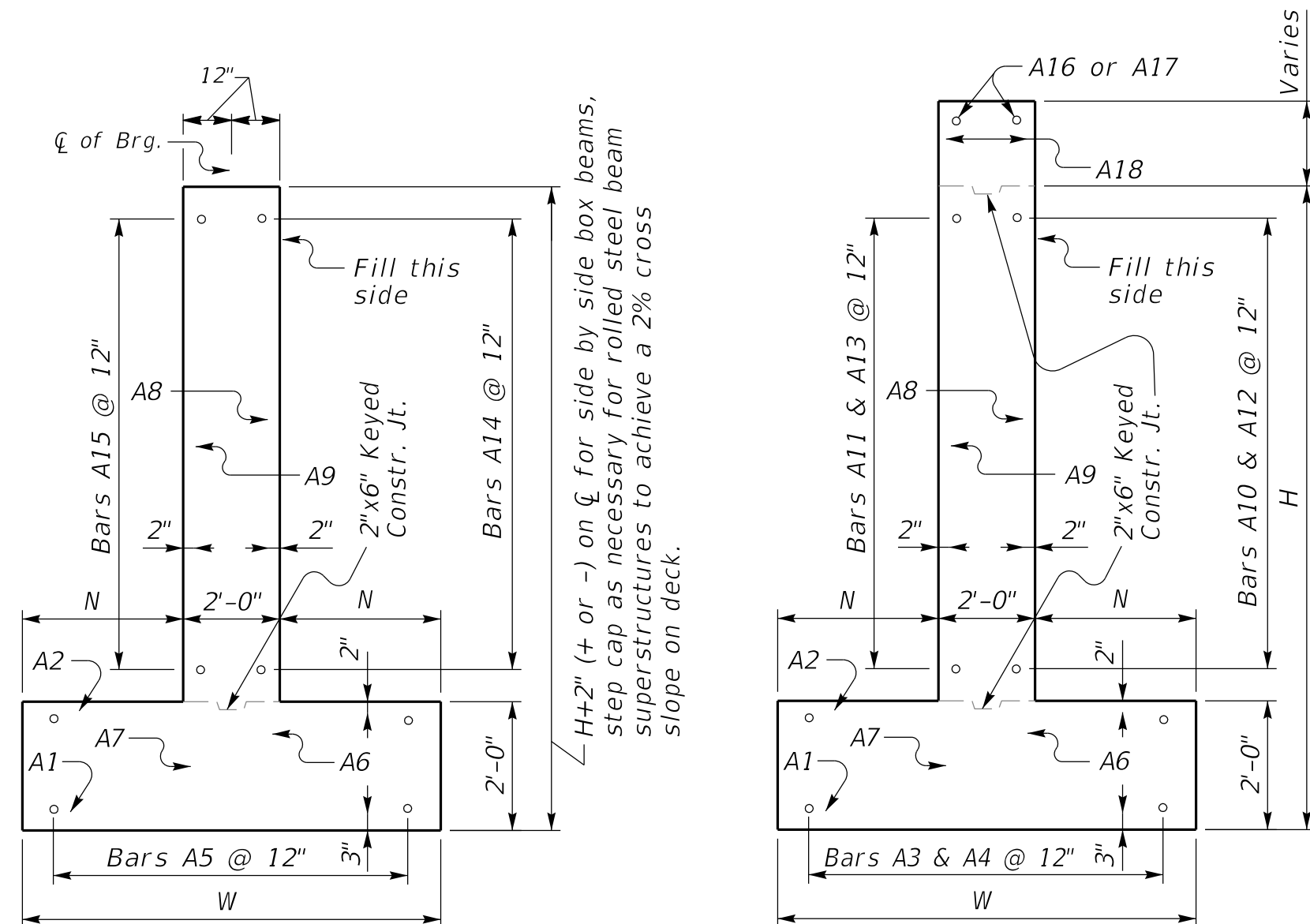
H	W	N	M1	S1	T1	L1
Length	Length	Length	Length	Length	Length	Length
ft.	in.	ft.	in.	ft.	in.	ft.
15-16	12 0 5	0 16 10 3/4		14 8 1/4	16 10 3/4	21
13-14	11 0 4	6 14 7 3/8		14 5 1/4	14 7 3/8	18
11-12	10 0 4	0 13 3/8		14 3 3/8	13 3/8	16
9-10	9 0 3	6 11 6 1/8		14 3/8	11 6 1/8	14
7-8	7 6 2	9 8 5 1/2		13 9 1/8	8 5 1/2	10
5-6	6 6 2	3 6 10 3/8		13 6 3/8	6 10 3/8	8

4 foot min. shoulder



PLAN

NOTE: Trim A16 & A17 bars if necessary



WALL SECTION

WING SECTION

Quantities		
H	Concrete*	Reinforcement
	C.Y.	LBS.
5	32.3	2801
6	35.3	2801
7	45.5	3843
8	48.9	3843
9	67.6	5792
10	71.5	5792
11	85.4	8010
12	89.7	8010
13	105.1	11097
14	109.6	11097
15	130.4	14634
16	135.4	14634

*Concrete quantities computed using 21" beam depth on 1/2" pad & 16'-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 17'-6" rolled steel beam bridge width.

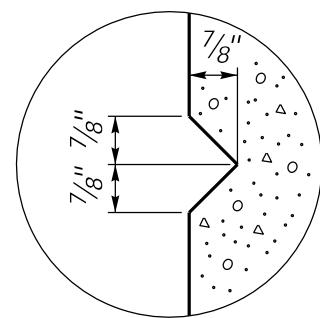
FOUNDATION PRESSURE: Construct abutment footings on solid rock bearing material that can support a pressure of 8000 psf service or 10,800 psf strength factored as recommended by a geotechnical engineer.

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

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

ELEVATION

Place 4" weep hole drains at 8'-0" centers at such elevation as to afford best drainage of backfill, in accordance with the Standard Specifications.



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

0° SKEW 16'-0"-17'-6" BRIDGE WIDTH 2:1 FILL SLOPES 4'-0" MIN. SHOULDER

STANDARD DRAWING NUMBER

BSA-101-01