

15° SKEW 16'-0" - 17'-6" BRIDGE WIDTH 2:1 FILL SLOPES

MARK		Bill of Reinforcement																				
TYPE		A1	A2	A3	A4	A5	A6				A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18
SIZE		Str.	Str.	Str.	Str.	Str.	4				Str.	Str.	Str.	#5	#5	#5	#5	#5	#5	#5	#5	Str.
H	No.	Length	Length	Length	Length	Length	Length	A	B	C	D	Length	Length	Length	Length	Length	Length	Length	Length	Length	Length	
15-16	70	10	11	8	12	70	7	11	4	12	21	5	24	26	7	24	30	7	67	9	11	
13-14	65	9	10	8	12	65	7	10	8	12	19	2	22	23	5	22	30	2	62	8	11	
11-12	62	8	9	8	12	62	6	9	8	12	16	11	20	16	11	20	29	9	57	7	11	
9-10	56	7	8	8	12	56	5	8	8	12	13	8	18	17	11	18	29	4	51	6	11	
7-8	52	6	7	2	12	52	5	7	2	12	16	11	2	16	12	6	16	28	4	45	5	
5-6	48	5	6	2	12	48	5	6	2	12	14	8	11	14	4	14	27	11	41	5	11	

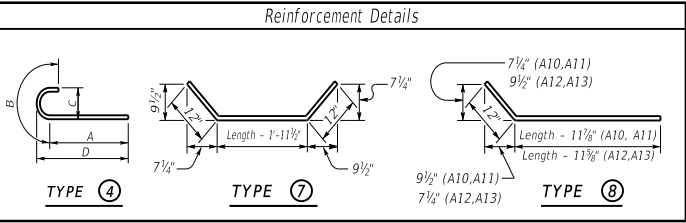
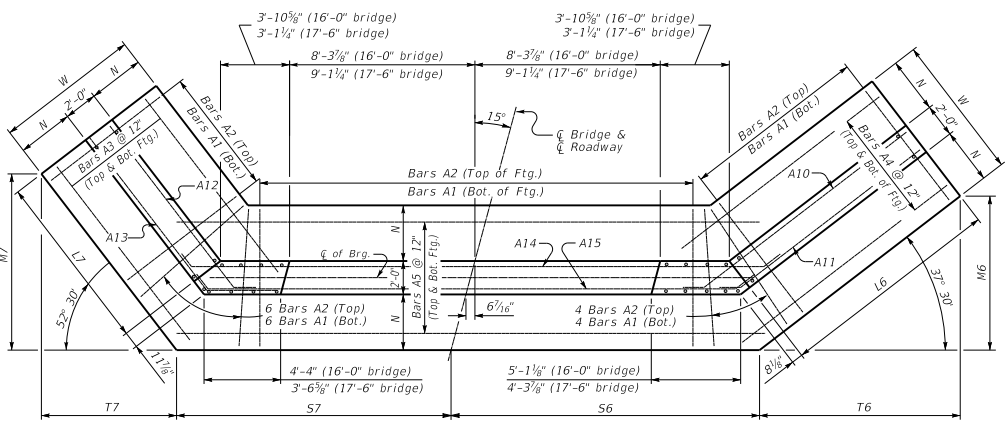
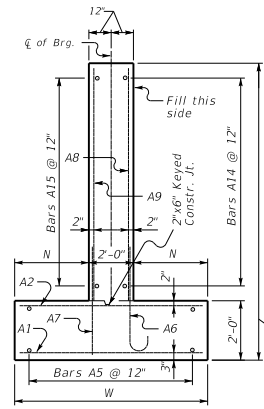


Table of Dimensions															
H	W	N	M6	M7	S6	S7	T6	T7	L6	L7	Length		Length		
											ft.	in.	ft.	in.	
15-16	12	0	5	0	16	6	17	18	16	5	13	9	8	24	18
13-14	11	0	4	0	14	5	15	16	14	3	8	16	4	17	16
11-12	10	0	4	0	12	5	13	14	13	3	6	15	0	16	14
9-10	9	0	3	0	10	4	11	12	12	3	4	14	0	15	11
7-8	7	0	2	0	7	3	8	9	8	2	3	10	0	11	9
5-6	6	0	2	0	6	2	7	8	7	1	2	9	0	10	7

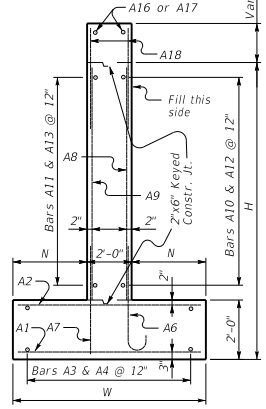
4 foot min. shoulder



PLAN NOTE: Trim A16 & A17 bars if necessary



WALL SECTION



WING SECTION

Quantities	
H	Reinforcement
5	Concrete* 2852
6	Concrete* 2852
7	Concrete* 3942
8	Concrete* 3942
9	Concrete* 5682
10	Concrete* 5682
11	Concrete* 8139
12	Concrete* 8139
13	Concrete* 11385
14	Concrete* 11385
15	Concrete* 14911
16	Concrete* 14911

*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.

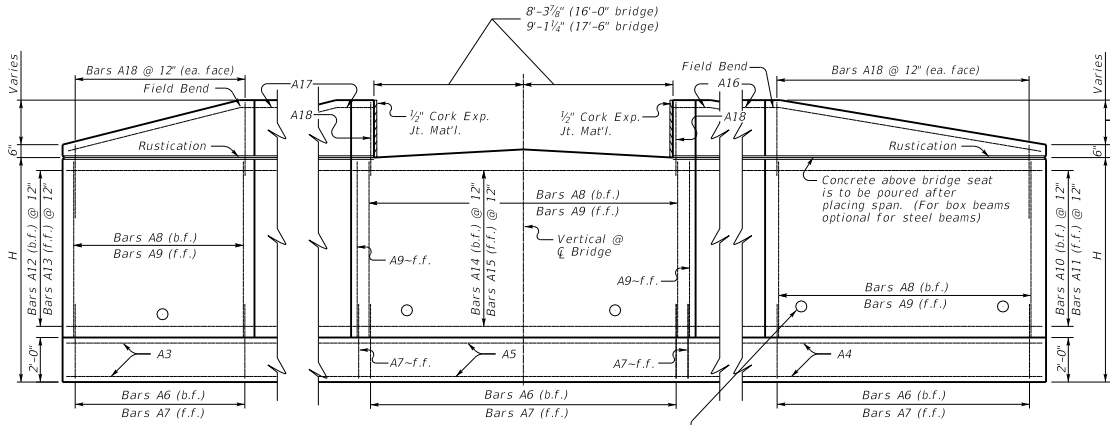
FOUNDATION PRESSURE: Construct abutment footings on solid rock bearing material that can support a pressure of 8000 psf service or 10,800 psf strength factored as recommended by a geotechnical engineer.

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

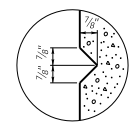
FOOTING ELEVATION: Construct bottom of footing below the anticipated scour elevation. (This typically entails embedding the footings 1'-0" to 2'-0" into rock and pouring concrete directly against cut rock faces as recommended by geotechnical engineer.)

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

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



ELEVATION



RUSTICATION GROOVE

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.

KENTUCKY
DEPARTMENT OF HIGHWAYS

15° SKEW
16'-0"-17'-6" BRIDGE WIDTH
2:1 FILL SLP. 4' MIN. SHLDR.

STANDARD DRAWING NO. BSA-104

SUBMITTED *Bert Adams* DIRECTOR DIVISION OF STRUCTURAL DESIGN 02-26-20
DATE

APPROVED *[Signature]* STATE ENGINEER 02-26-20
DATE