


2016 ROAD & BRIDGE STANDARDS

BCW-21

WING	STEM BAR SPACINGS												WV1						WV2					
	WV1		WV2		WV3		WV4		WH1		WH2		SIZE	α			LENGTH			SIZE	LENGTH			
	0	P	Q	R	S	T	U	V	W	X	Y	Z		FROM	TO	VARY BY	FROM	TO	VARY BY		FROM	TO	VARY BY	
A	6	6'-0"	5	6'-3"	-	-	-	-	-	-	1	1'-3"	4	4'-11"	2'-9"	0'-4 3/8"	6'-10"	4'-8"	0'-4 3/8"	4	4'-11"	2'-8"	0'-5 3/8"	
B	7	7'-0"	6	7'-6"	-	-	-	-	1	0'-6"	1	1'-3"	4	5'-5"	2'-9"	0'-4 1/2"	7'-4"	4'-8"	0'-4 1/2"	4	5'-5"	2'-7"	0'-5 5/8"	
C	8	8'-0"	6	7'-6"	-	-	-	-	1	1'-0"	1	1'-3"	4	5'-11"	3'-0"	0'-4 3/8"	7'-10"	4'-11"	0'-4 3/8"	4	5'-11"	3'-2"	0'-5 3/8"	
D	9	9'-0"	7	8'-9"	-	-	-	-	-	-	2	2'-6"	4	6'-11"	3'-3"	0'-4 3/8"	8'-10"	5'-2"	0'-4 3/8"	4	6'-11"	3'-5"	0'-6"	
E	10	10'-0"	8	10'-0"	-	-	-	-	1	0'-9"	2	2'-6"	4	6'-11"	3'-3"	0'-4 3/8"	8'-10"	5'-2"	0'-4 3/8"	4	6'-11"	3'-3"	0'-5 3/8"	
F	11	11'-0"	9	11'-3"	-	-	-	-	1	1'-3"	2	2'-6"	4	7'-5"	3'-3"	0'-4 1/2"	9'-4"	5'-2"	0'-4 1/2"	4	7'-5"	3'-2"	0'-5 5/8"	
G	12	12'-0"	10	12'-6"	-	-	-	-	2	1'-9"	2	2'-6"	4	7'-11"	3'-6"	0'-4 3/8"	9'-10"	5'-5"	0'-4 3/8"	4	7'-11"	3'-4"	0'-5 1/2"	
H	13	13'-0"	10	12'-6"	-	-	-	-	1	1'-0"	3	3'-9"	4	8'-5"	3'-6"	0'-4 1/2"	10'-4"	5'-5"	0'-4 1/2"	4	8'-5"	3'-8"	0'-5 5/8"	
I	9	9'-0"	11	13'-9"	6	4'-6"	-	-	2	1'-6"	3	3'-9"	4	6'-11"	3'-7"	0'-4 3/8"	8'-9"	5'-6"	0'-4 3/8"	4	8'-11"	3'-10"	0'-5 1/2"	
J	9	9'-0"	12	15'-0"	7	5'-3"	-	-	2	2'-0"	3	3'-9"	4	7'-1"	3'-8"	0'-4 1/2"	8'-11"	5'-7"	0'-4 1/2"	4	9'-5"	3'-9"	0'-5 5/8"	
K	10	10'-0"	13	16'-3"	7	5'-3"	-	-	1	1'-3"	4	5'-0"	4	7'-7"	3'-11"	0'-4 3/8"	9'-6"	5'-10"	0'-4 3/8"	4	9'-11"	3'-11"	0'-5 1/2"	
L	10	10'-0"	14	17'-6"	8	6'-0"	-	-	2	1'-9"	4	5'-0"	4	7'-9"	4'-0"	0'-4 1/2"	9'-8"	5'-11"	0'-4 1/2"	4	10'-5"	3'-10"	0'-5 5/8"	
M	11	11'-0"	14	17'-6"	8	6'-0"	-	-	2	2'-3"	4	5'-0"	4	8'-4"	4'-3"	0'-4 3/8"	10'-3"	6'-2"	0'-4 3/8"	4	10'-11"	4'-5"	0'-5 1/2"	
N	11	11'-0"	14	17'-6"	8	6'-0"	-	-	3	2'-9"	4	5'-0"	5	8'-10"	4'-9"	0'-4 3/8"	10'-9"	6'-8"	0'-4 3/8"	4	11'-5"	4'-11"	0'-5 1/2"	
O	12	12'-0"	15	18'-9"	8	6'-0"	-	-	2	2'-0"	5	6'-3"	5	9'-3"	4'-9"	0'-4 1/2"	11'-3"	6'-8"	0'-4 1/2"	4	11'-11"	4'-10"	0'-5 5/8"	
P	12	12'-0"	16	20'-0"	10	7'-6"	-	-	2	2'-6"	5	6'-3"	5	9'-3"	4'-10"	0'-4 3/8"	11'-3"	6'-9"	0'-4 3/8"	4	12'-5"	5'-0"	0'-5 1/2"	
Q	13	13'-0"	17	21'-3"	10	7'-6"	-	-	3	3'-0"	5	6'-3"	5	9'-9"	4'-10"	0'-4 1/2"	11'-8"	6'-9"	0'-4 1/2"	4	12'-11"	4'-11"	0'-5 5/8"	
R	10	10'-0"	18	22'-6"	9	6'-9"	8	4'-0"	3	3'-6"	5	6'-3"	5	8'-9"	5'-1"	0'-4 3/8"	10'-9"	7'-0"	0'-4 3/8"	4	13'-5"	5'-1"	0'-5 1/2"	
S	11	11'-0"	18	22'-6"	9	6'-9"	8	4'-0"	3	2'-9"	6	7'-6"	5	9'-3"	5'-1"	0'-4 1/2"	11'-2"	7'-0"	0'-4 1/2"	4	13'-11"	5'-5"	0'-5 5/8"	
T	12	12'-0"	19	23'-9"	9	6'-9"	8	4'-0"	3	3'-3"	6	7'-6"	5	9'-9"	5'-4"	0'-4 3/8"	11'-9"	7'-3"	0'-4 3/8"	4	14'-5"	5'-7"	0'-5 1/2"	
U	12	12'-0"	20	25'-0"	9	6'-9"	10	5'-0"	3	3'-9"	6	7'-6"	5	9'-10"	5'-4"	0'-4 1/2"	11'-9"	7'-3"	0'-4 1/2"	4	14'-11"	5'-6"	0'-5 5/8"	
V	10	10'-0"	21	26'-3"	13	9'-9"	10	5'-0"	3	3'-0"	7	8'-9"	5	9'-3"	5'-7"	0'-4 3/8"	11'-3"	7'-6"	0'-4 3/8"	4	15'-5"	5'-8"	0'-5 1/2"	
W	11	11'-0"	22	27'-6"	13	9'-9"	10	5'-0"	3	3'-6"	7	8'-9"	5	9'-9"	5'-7"	0'-4 1/2"	11'-8"	7'-6"	0'-4 1/2"	4	15'-11"	5'-7"	0'-5 5/8"	
X	11	11'-0"	22	27'-6"	13	9'-9"	12	6'-0"	4	4'-0"	7	8'-9"	5	10'-2"	6'-1"	0'-4 3/8"	12'-1"	8'-0"	0'-4 3/8"	4	16'-8"	6'-5"	0'-5 1/2"	
Y	10	10'-0"	23	28'-9"	17	12'-9"	10	5'-0"	3	3'-3"	8	10'-0"	5	10'-1"	6'-4"	0'-4 1/2"	12'-0"	8'-3"	0'-4 1/2"	4	17'-5"	6'-7"	0'-5 5/8"	
Z	10	10'-0"	24	30'-0"	17	12'-9"	12	6'-0"	3	3'-9"	8	10'-0"	5	10'-4"	6'-7"	0'-4 3/8"	12'-3"	8'-6"	0'-4 3/8"	4	17'-11"	6'-9"	0'-5 1/2"	
AA	11	11'-0"	25	31'-3"	17	12'-9"	12	6'-0"	4	4'-3"	8	10'-0"	5	10'-9"	6'-7"	0'-4 1/2"	12'-8"	8'-6"	0'-4 1/2"	4	18'-5"	6'-8"	0'-5 5/8"	
BB	12	12'-0"	26	32'-6"	17	12'-9"	12	6'-0"	4	4'-9"	8	10'-0"	6	11'-3"	6'-10"	0'-4 3/8"	13'-4"	8'-10"	0'-4 3/8"	4	18'-11"	6'-10"	0'-5 1/2"	
CC	13	13'-0"	26	32'-6"	17	12'-9"	12	6'-0"	4	4'-0"	9	11'-3"	6	11'-9"	6'-10"	0'-4 1/2"	13'-9"	8'-10"	0'-4 1/2"	4	19'-5"	7'-2"	0'-5 5/8"	
DD	12	12'-0"	27	33'-9"	17	12'-9"	16	8'-0"	4	4'-6"	9	11'-3"	6	12'-1"	7'-7"	0'-4 3/8"	14'-1"	9'-7"	0'-4 3/8"	4	20'-5"	7'-10"	0'-5 1/2"	
EE	12	12'-0"	28	35'-0"	17	12'-9"	18	9'-0"	4	5'-0"	9	11'-3"	6	12'-1"	7'-7"	0'-4 1/2"	14'-1"	9'-7"	0'-4 1/2"	4	20'-11"	7'-9"	0'-5 5/8"	

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE

 ROAD AND BRIDGE STANDARDS	<h2>WING DETAILS</h2> <h3>2: 1 FILL SLOPE - TYPE I</h3> VIRGINIA DEPARTMENT OF TRANSPORTATION		SPECIFICATION REFERENCE
	SHEET 7 OF 8 1007.07	REVISION DATE 07/12	