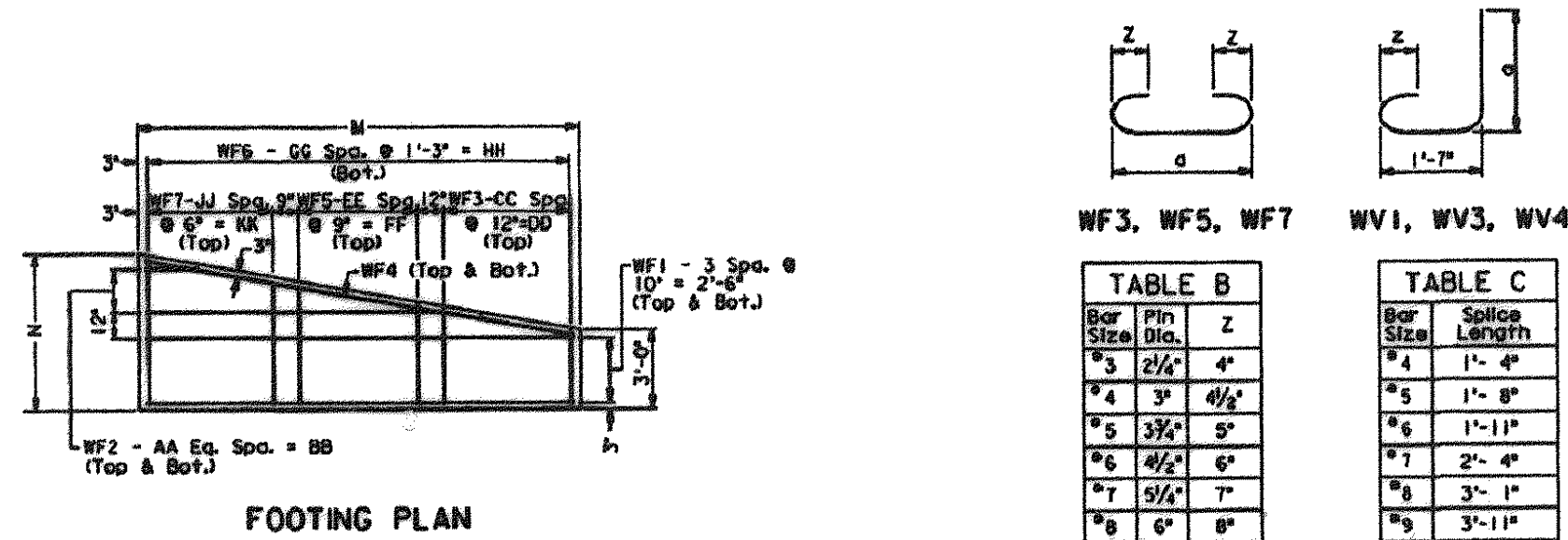
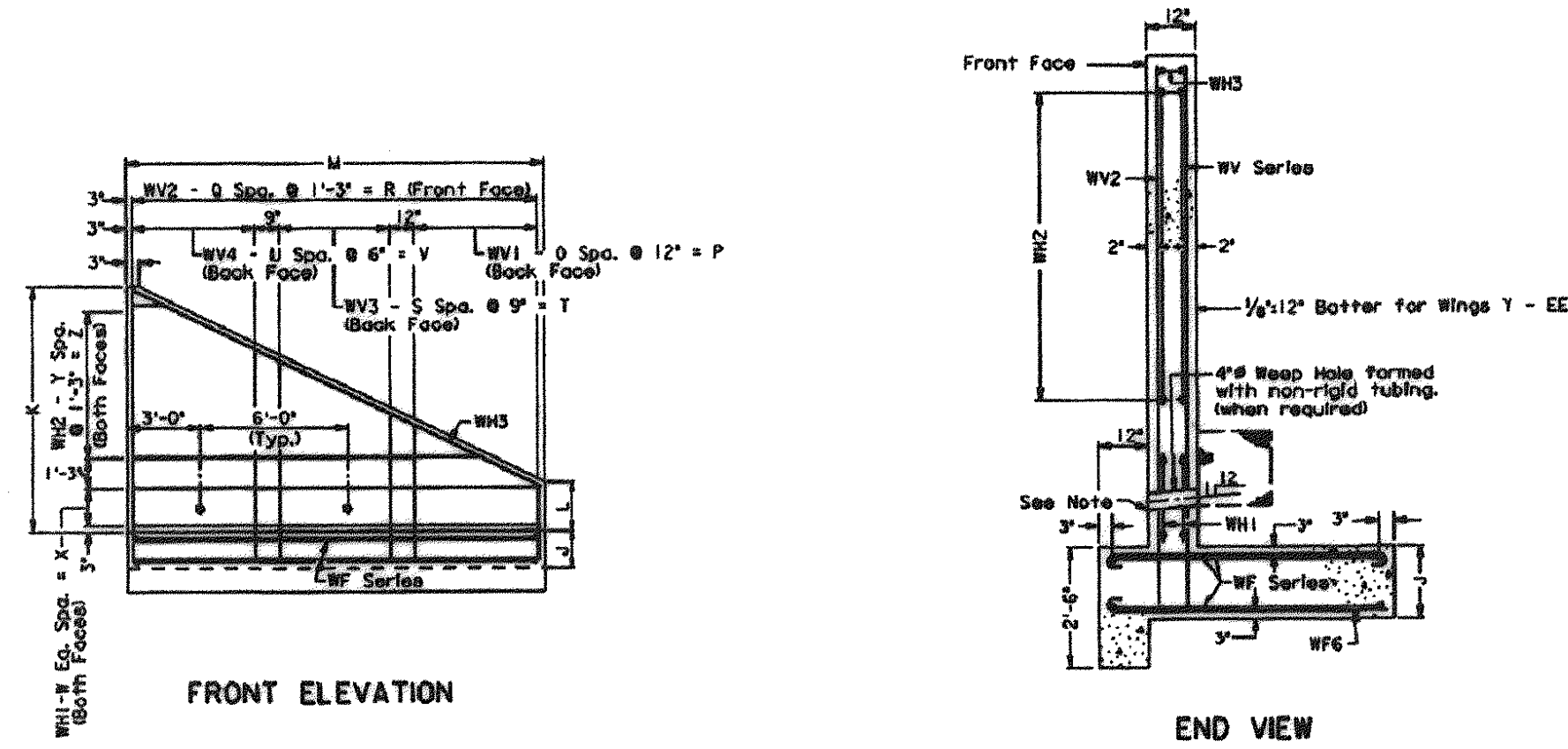


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WING DETAILS
2:1 FILL SLOPE - TYPE II
VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
AND
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GENERAL NOTE
Specifications:

Construction - Vc. Department of Transportation Road and Bridge Specifications, 1991.
Design - AASHTO Standard Specifications for Highway Bridges, 1983, including Interim Specifications, 1984, 1985 and VDOT Modifications, using Load Factor Design.
All concrete shall be Class A4.
Deformed reinforcing bars shall conform to ASTM A615, Grade 60. All reinforcing bar dimensions on the detailed drawing are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.
Dimensions on bar diagrams are out-to-out of bars. Bars are straight unless otherwise shown.
The centers of main reinforcing bars shall be 2" from the face of the concrete unless otherwise shown.
At the Contractor's option, W Series bars may be applied at the top of footing in order to facilitate construction. Splice lengths shall be in accordance with TABLE C. No additional compensation shall be provided for the increase in reinforcing steel quantity due to the splice.
When concrete protective coating is required, all steel shall be epoxy-coated.
Bearing capacity of foundations shall be 1.5 Tons/Sq. Ft. minimum for wings A - K and 2 Tons/Sq. Ft. minimum for wings L - EE.
Weepholes shall be placed at lowest point feasible for free drainage away from wing.
Four Type I Wings are to be used for straight crossings and skewers up to 30°. Two Type I and two Type II Wings are to be used for skewers from 30° to 45°. For skewers above 45°, special design wings are required. The wingwall to be used for each culvert is shown on the BC series sheets.
The designs shown are applicable for a 45° skew with the roadway and other conditions indicated. Any change in these conditions invalidates these designs.
Quantities shown are for one wing.

WING	Quantity (One Wing)	
	Concrete Cu. Yd.	Reinforcing Steel Lbs.
A	2.917	182.454
B	3.499	233.188
C	3.909	252.894
D	4.570	286.711
E	5.233	341.981
F	6.145	383.724
G	6.881	445.681
H	7.910	493.811
I	8.512	517.084
J	9.643	613.592
K	10.529	655.405
L	11.771	771.254
M	13.099	877.892
N	14.105	918.325
O	15.275	1017.802
P	16.355	1085.180
Q	17.691	1282.357
R	19.005	1525.633
S	20.691	1704.239
T	21.910	1922.852
U	23.368	2116.654
V	24.678	2112.153
W	28.412	2770.223
X	32.434	3904.347
Y	35.972	2700.572
Z	37.767	2849.343
AA	39.857	3382.164
BB	42.547	3594.334
CC	46.155	4755.614
DD	49.940	5000.464
EE	51.522	6808.765

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STRUCTURE
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WING DETAILS
2:1 FILL SLOPE - TYPE II
VIRGINIA DEPARTMENT OF TRANSPORTATION

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DIMENSIONS					BAR SPACINGS																		NO. WEEP HOLES																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
WING	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE		FF	GG	HH	JJ	KK																																																																																																																																																																																																																																																																																																																																																																																																																																																															
A	1'-0"	4'-0"	1'-0"	9'-0"	4'-0"	8'-0"	6'-0"	7'-0"	---	---	---	---	---	---	---	---	1'-0"	1'-0"	---	---	---	---	---	---	---	6'-0"	7'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																															
B	1'-0"	4'-0"	1'-0"	10'-0"	4'-0"	10'-0"	8'-0"	10'-0"	---	---	---	---	---	---	---	1'-0"	1'-0"	10'-0"	---	---	---	---	---	---	---	8'-0"	10'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																															
C	1'-0"	5'-0"	1'-0"	11'-0"	4'-0"	11'-0"	8'-0"	10'-0"	---	---	---	---	---	---	---	---	2'-0"	2'-0"	---	---	11'-0"	---	---	---	---	---	8'-0"	10'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																														
D	1'-0"	5'-0"	1'-0"	12'-0"	4'-0"	12'-0"	10'-0"	12'-0"	---	---	---	---	---	---	---	---	2'-0"	2'-0"	---	---	12'-0"	---	---	---	---	---	10'-0"	12'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																														
E	1'-0"	5'-0"	1'-0"	13'-0"	4'-0"	13'-0"	11'-0"	13'-0"	---	---	---	---	---	---	---	---	3'-0"	3'-0"	---	---	14'-0"	---	---	---	---	---	11'-0"	13'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																														
F	1'-0"	5'-0"	1'-0"	14'-0"	4'-0"	14'-0"	12'-0"	15'-0"	---	---	---	---	---	---	---	---	3'-0"	3'-0"	---	---	15'-0"	---	---	---	---	---	12'-0"	15'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																														
G	1'-0"	5'-0"	1'-0"	15'-0"	4'-0"	15'-0"	13'-0"	16'-0"	---	---	---	---	---	---	---	---	3'-0"	3'-0"	---	---	16'-0"	---	---	---	---	---	13'-0"	16'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																														
H	1'-0"	5'-0"	1'-0"	16'-0"	4'-0"	16'-0"	14'-0"	17'-0"	---	---	---	---	---	---	---	---	4'-0"	---	---	---	18'-0"	---	---	---	---	---	14'-0"	17'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																														
I	1'-0"	5'-0"	1'-0"	17'-0"	4'-0"	17'-0"	15'-0"	18'-0"	---	---	---	---	---	---	---	---	4'-0"	---	---	---	19'-0"	---	---	---	---	---	15'-0"	18'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																														
J	1'-0"	5'-0"	1'-0"	18'-0"	4'-0"	18'-0"	16'-0"	19'-0"	---	---	---	---	---	---	---	---	5'-0"	1'-0"	21'-0"	---	---	---	---	---	---	---	16'-0"	20'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																														
K	1'-0"	5'-0"	1'-0"	19'-0"	4'-0"	19'-0"	17'-0"	20'-0"	---	---	---	---	---	---	---	---	5'-0"	1'-0"	22'-0"	---	---	---	---	---	---	---	---	18'-0"	22'-0"	---																																																																																																																																																																																																																																																																																																																																																																																																																																																													
L	1'-0"	5'-0"	1'-0"	20'-0"	4'-0"	20'-0"	18'-0"	21'-0"	---	---	---	---	---	---	---	---	5'-0"	1'-0"	23'-0"	---	---	---	---	---	---	---	---	---	20'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																												
M	1'-0"	5'-0"	1'-0"	21'-0"	4'-0"	21'-0"	19'-0"	22'-0"	---	---	---	---	---	---	---	---	5'-0"	1'-0"	24'-0"	---	---	---	---	---	---	---	---	---	21'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																												
N	1'-0"	5'-0"	1'-0"	22'-0"	4'-0"	22'-0"	20'-0"	23'-0"	---	---	---	---	---	---	---	---	6'-0"	2'-0"	25'-0"	---	---	---	---	---	---	---	---	---	22'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																												
O	1'-0"	5'-0"	1'-0"	23'-0"	4'-0"	23'-0"	21'-0"	24'-0"	---	---	---	---	---	---	---	---	6'-0"	2'-0"	26'-0"	---	---	---	---	---	---	---	---	---	---	23'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																											
P	1'-0"	5'-0"	1'-0"	24'-0"	4'-0"	24'-0"	22'-0"	25'-0"	---	---	---	---	---	---	---	---	7'-0"	3'-0"	27'-0"	---	---	---	---	---	---	---	---	---	---	24'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Q	1'-0"	5'-0"	1'-0"	25'-0"	4'-0"	25'-0"	23'-0"	26'-0"	---	---	---	---	---	---	---	---	7'-0"	3'-0"	28'-0"	---	---	---	---	---	---	---	---	---	---	25'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																											
R	1'-0"	5'-0"	1'-0"	26'-0"	4'-0"	26'-0"	24'-0"	27'-0"	---	---	---	---	---	---	---	---	8'-0"	3'-0"	29'-0"	---	---	---	---	---	---	---	---	---	---	26'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																											
S	1'-0"	5'-0"	1'-0"	27'-0"	4'-0"	27'-0"	25'-0"	28'-0"	---	---	---	---	---	---	---	---	8'-0"	3'-0"	30'-0"	---	---	---	---	---	---	---	---	---	---	27'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																											
T	1'-0"	5'-0"	1'-0"	28'-0"	4'-0"	28'-0"	26'-0"	29'-0"	---	---	---	---	---	---	---	---	9'-0"	4'-0"	31'-0"	---	---	---	---	---	---	---	---	---	---	28'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																											
U	1'-0"	5'-0"	1'-0"	29'-0"	4'-0"	29'-0"	27'-0"	30'-0"	---	---	---	---	---	---	---	---	9'-0"	4'-0"	32'-0"	---	---	---	---	---	---	---	---	---	---	29'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																											
V	1'-0"	5'-0"	1'-0"	30'-0"	4'-0"	30'-0"	28'-0"	31'-0"	---	---	---	---	---	---	---	---	10'-0"	4'-0"	33'-0"	---	---	---	---	---	---	---	---	---	---	---	30'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																										
W	1'-0"	5'-0"	1'-0"	31'-0"	4'-0"	31'-0"	29'-0"	32'-0"	---	---	---	---	---	---	---	---	10'-0"	4'-0"	34'-0"	---	---	---	---	---	---	---	---	---	---	---	31'-0"	---	---																																																																																																																																																																																																																																																																																																																																																																																																																																																										
X	2'-0"	15'-0"	1'-0"	40'-0"	5'-0"	15'-0"	31'-0"	38'-0"	19'-0"	14'-0"	17'-0"	12'-0"	17'-0"	17'-0"	17'-0"	---	10'-0"	12'-0"	5'-0"	4'-0"	20'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	15'-0"	11'-0"	31'-0"	1

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WING DETAILS
2:1 FILL SLOPE - TYPE II
VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
AND
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DIVISION

BCW-22

	WF1			WF2					WF3					WF4														
	WING	SIZE	LENGTH	From	To	Var	By	Eq	SIZE	From	To	Var	By	Eq	SIZE	From	To	Var	By	Eq	SIZE	From	To	Var	By	Eq		
A	4	9'-0"	---	---	---	---	---	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
B	4	10'-0"	---	---	---	---	---	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
C	4	11'-0"	---	---	---	---	---	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
D	4	12'-0"	---	---	---	---	---	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
E	4	14'-0"	---	---	---	---	---	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
F	4	15'-0"	---	5'-0"	---	---	---	---	2	4	4'-0"	2'-0"	0'-0"	5'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
G	4	17'-0"	---	5'-0"	---	---	---	---	2	4	4'-0"	2'-0"	0'-0"	5'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
H	4	18'-0"	---	9'-0"	---	---	---	---	2	4	4'-0"	2'-0"	0'-0"	5'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
I	4	19'-0"	---	9'-0"	---	---	---	---	2	4	4'-0"	2'-0"	0'-0"	5'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
J	4	21'-0"	---	12'-0"	6'-0"	2'-0"	6'-0"	5'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
K	4	22'-0"	---	13'-0"	6'-0"	2'-0"	6'-0"	5'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
L	4	24'-0"	---	16'-0"	5'-0"	1'-0"	5'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
M	4	25'-0"	---	18'-0"	5'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
N	4	27'-0"	---	19'-0"	5'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
O	4	28'-0"	---	21'-0"	5'-0"	1'-0"	5'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
P	4	29'-0"	---	22'-0"	5'-0"	1'-0"	5'-0"	2	4	4'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
Q	4	31'-0"	---	24'-0"	4'-0"	1'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
R	4	32'-0"	---	25'-0"	5'-0"	1'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
S	4	34'-0"	---	27'-0"	4'-0"	1'-0"	5'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
T	4	35'-0"	---	28'-0"	5'-0"	1'-0"	5'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
U	4	36'-0"	---	30'-0"	4'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
V	4	38'-0"	---	31'-0"	4'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
W	4	39'-0"	---	33'-0"	4'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
X	4	41'-0"	---	34'-0"	4'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
Y	4	42'-0"	---	36'-0"	4'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
Z	4	44'-0"	---	37'-0"	4'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
AA	4	45'-0"	---	39'-0"	4'-0"	3'-0"	6'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
BB	4	46'-0"	---	40'-0"	4'-0"	3'-0"	5'-0"	2	4	5'-0"	2'-0"	0'-0"	6'-0"	3'-0"	2'-0"	0'-0"	3'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"	
CC	4	48'-0"	---	42'-0"	3'-0"	3'-0"	4'-0"	2	4	6'-0"	2'-0"	0'-0"	2'-0"	1'-0"	3'-0"	3'-0"	0'-0"	2'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
DD	4	49'-0"	---	44'-0"	3'-0"	3'-0"	4'-0"	2	4	5'-0"	2'-0"	0'-0"	2'-0"	1'-0"	3'-0"	3'-0"	0'-0"	2'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"
EE	4	51'-0"	---	46'-0"	3'-0"	3'-0"	4'-0"	2	4	5'-0"	2'-0"	0'-0"	2'-0"	1'-0"	3'-0"	3'-0"	0'-0"	2'-0"	0'-0"	---	4	3'-0"	2'-0"	0'-0"	0'-0"	---	4	3'-0"