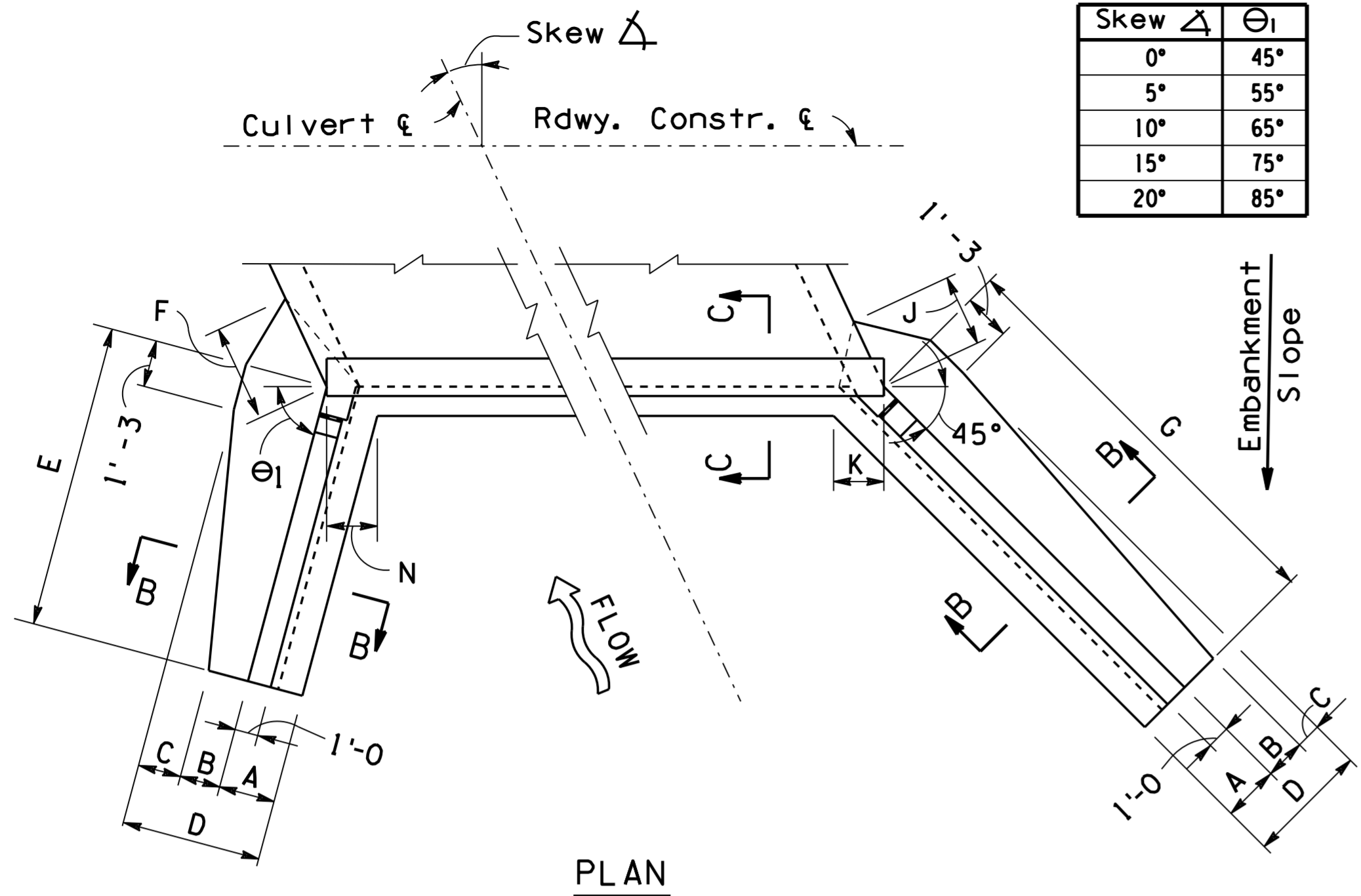


Note to Designer: The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO.	DESCRIPTION OF REVISIONS	DATE
1	Original Issue	2-12
2		
3		
4		



Skew Δ	Θ ₁
0°	45°
5°	55°
10°	65°
15°	75°
20°	85°

2 : 1 Slope	Skew Δ	0°					5°					10°					15°					20°									
		Height H					Height H					Height H					Height H					Height H									
Dimensions	A	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"
	B	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"	1'-4"	1'-5"	1'-6"	1'-7"	1'-8"
	C	2'-2"	2'-7"	3'-0"	3'-6"	4'-2"	2'-2"	2'-7"	3'-0"	3'-8"	4'-4"	2'-2"	2'-7"	3'-0"	3'-8"	4'-4"	2'-2"	2'-7"	3'-0"	3'-8"	4'-4"	2'-2"	2'-7"	3'-0"	3'-8"	4'-4"	2'-2"	2'-7"	3'-0"	3'-8"	4'-4"
	D	5'-6"	6'-1"	6'-8"	7'-6"	8'-5"	5'-6"	6'-1"	6'-8"	7'-6"	8'-5"	5'-6"	6'-1"	6'-8"	7'-6"	8'-5"	5'-6"	6'-1"	6'-8"	7'-6"	8'-5"	5'-6"	6'-1"	6'-8"	7'-6"	8'-5"	5'-6"	6'-1"	6'-8"	7'-6"	8'-5"
	E	13'-0"	14'-6"	16'-0"	17'-0"	18'-6"	12'-6"	14'-0"	15'-6"	16'-6"	18'-0"	12'-6"	13'-6"	15'-0"	16'-6"	18'-0"	12'-6"	14'-0"	15'-0"	16'-6"	18'-0"	13'-0"	14'-6"	15'-6"	17'-0"	18'-6"	13'-0"	14'-6"	15'-6"	17'-0"	18'-6"
	F	4'-8"	5'-4"	6'-1"	7'-1"	8'-3"	4'-7"	5'-4"	6'-0"	7'-1"	8'-3"	4'-7"	5'-3"	5'-11"	7'-0"	8'-2"	4'-6"	5'-2"	5'-10"	6'-10"	8'-0"	4'-4"	5'-0"	5'-8"	6'-8"	7'-9"	4'-4"	5'-0"	5'-8"	6'-8"	7'-9"
	G	13'-0"	14'-6"	16'-0"	17'-0"	18'-6"	13'-6"	15'-0"	16'-6"	18'-0"	19'-6"	14'-6"	16'-0"	17'-6"	19'-0"	20'-6"	15'-0"	17'-0"	18'-6"	20'-0"	22'-0"	16'-0"	18'-0"	19'-6"	21'-6"	23'-6"	16'-0"	18'-0"	19'-6"	21'-6"	23'-6"
	J	4'-8"	5'-4"	6'-1"	7'-1"	8'-3"	4'-7"	5'-4"	6'-0"	7'-1"	8'-3"	4'-7"	5'-3"	5'-11"	7'-0"	8'-2"	4'-6"	5'-2"	5'-10"	6'-10"	8'-0"	4'-4"	5'-0"	5'-8"	6'-8"	7'-9"	4'-4"	5'-0"	5'-8"	6'-8"	7'-9"
	K	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%
	L	4'-6"	4'-11"	5'-5"	6'-1"	6'-6"	3'-11"	4'-4"	4'-9"	5'-4"	5'-8"	3'-5"	3'-11"	4'-3"	4'-7"	4'-11"	3'-0"	3'-4"	3'-10"	4'-1"	4'-4"	2'-7"	2'-10"	3'-4"	3'-7"	3'-10"	2'-7"	2'-10"	3'-4"	3'-7"	3'-10"
	M	4'-6"	4'-11"	5'-5"	6'-1"	6'-6"	4'-3"	4'-9"	5'-3"	5'-8"	6'-2"	3'-11"	4'-5"	4'-11"	5'-4"	5'-10"	3'-9"	4'-1"	4'-6"	5'-0"	5'-3"	3'-5"	3'-8"	4'-2"	4'-6"	4'-9"	3'-5"	3'-8"	4'-2"	4'-6"	4'-9"
	N	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	1'-11"	2'-0%	2'-1 1/2"	2'-2%	2'-3%	1'-10 1/4"	1'-11 1/8"	2'-0 1/2"	2'-1 1/8"	2'-2 1/4"	1'-10 1/2"	1'-11 1/2"	2'-0 1/2"	2'-1 1/2"	2'-2 1/2"	1'-11 1/4"	2'-0 1/4"	2'-1 1/4"	2'-2 1/2"	2'-3 1/2"	1'-11 1/4"	2'-0 1/4"	2'-1 1/4"	2'-2 1/2"	2'-3 1/2"

4 : 1 Slope	Skew Δ	0°					5°					10°					15°					20°									
		Height H					Height H					Height H					Height H					Height H									
Dimensions	A	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"	2'-0"	2'-1"	2'-2"	2'-3"	2'-4"
	B	1'-8"	1'-11"	2'-2"	2'-5"	2'-8"	1'-6"	1'-9"	2'-0"	2'-3"	2'-6"	1'-5"	1'-8"	1'-11"	2'-2"	2'-4"	1'-4"	1'-6"	1'-9"	1'-11"	2'-2"	1'-4"	1'-5"	1'-6"	1'-8"	1'-10"	1'-4"	1'-5"	1'-6"	1'-8"	1'-10"
	C	1'-6"	1'-8"	1'-10"	2'-3"	2'-9"	1'-8"	1'-10"	2'-0"	2'-5"	2'-11"	1'-9"	1'-11"	2'-1"	2'-6"	3'-1"	1'-10"	2'-1"	2'-3"	2'-9"	3'-3"	1'-10"	2'-2"	2'-6"	3'-0"	3'-7"	1'-10"	2'-2"	2'-6"	3'-0"	3'-7"
	D	5'-2"	5'-8"	6'-2"	6'-11"	7'-9"	5'-2"	5'-8"	6'-2"	6'-11"	7'-9"	5'-2"	5'-8"	6'-2"	6'-11"	7'-9"	5'-2"	5'-8"	6'-2"	6'-11"	7'-9"	5'-2"	5'-8"	6'-2"	6'-11"	7'-9"	5'-2"	5'-8"	6'-2"	6'-11"	7'-9"
	E	17'-0"	19'-0"	21'-0"	23'-0"	25'-0"	17'-6"	19'-6"	21'-0"	23'-0"	25'-0"	18'-0"	19'-6"	21'-6"	23'-6"	25'-6"	18'-6"	20'-6"	22'-6"	24'-6"	26'-6"	20'-0"	22'-0"	24'-0"	26'-6"	28'-6"	20'-0"	22'-0"	24'-0"	26'-6"	28'-6"
	F	4'-2"	4'-9"	5'-4"	6'-3"	7'-4"	4'-2"	4'-9"	5'-4"	6'-3"	7'-4"	4'-1"	4'-8"	5'-3"	6'-2"	7'-3"	4'-0"	4'-7"	5'-2"	6'-1"	7'-1"	3'-11"	4'-5"	5'-0"	5'-11"	6'-11"	3'-11"	4'-5"	5'-0"	5'-11"	6'-11"
	G	17'-0"	19'-0"	21'-0"	23'-0"	25'-0"	18'-6"	20'-6"	22'-6"	24'-6"	26'-6"	19'-6"	22'-0"	24'-0"	26'-0"	28'-6"	21'-6"	23'-6"	26'-0"	28'-6"	30'-6"	23'-6"	26'-0"	28'-6"	31'-0"	34'-0"	23'-6"	26'-0"	28'-6"	31'-0"	34'-0"
	J	4'-2"	4'-9"	5'-4"	6'-3"	7'-4"	4'-2"	4'-9"	5'-4"	6'-3"	7'-4"	4'-1"	4'-8"	5'-3"	6'-2"	7'-3"	4'-0"	4'-7"	5'-2"	6'-1"	7'-1"	3'-11"	4'-5"	5'-0"	5'-11"	6'-11"	3'-11"	4'-5"	5'-0"	5'-11"	6'-11"
	K	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%
	L	6'-1"	6'-8"	7'-4"	8'-0"	8'-8"	5'-6"	6'-1"	6'-9"	7'-4"	7'-11"	5'-0"	5'-8"	6'-2"	6'-9"	7'-3"	4'-7"	5'-1"	5'-8"	6'-2"	6'-8"	4'-1"	4'-7"	5'-1"	5'-6"	6'-0"	4'-1"	4'-7"	5'-1"	5'-6"	6'-0"
	M	6'-1"	6'-8"	7'-4"	8'-0"	8'-8"	5'-10"	6'-5"	7'-1"	7'-9"	8'-5"	5'-7"	6'-2"	6'-10"	7'-6"	8'-0"	5'-3"	5'-11"	6'-6"	7'-0"	7'-8"	4'-11"	5'-6"	6'-0"	6'-7"	7'-1"	4'-11"	5'-6"	6'-0"	6'-7"	7'-1"
	N	2'-0%	2'-2%	2'-3%	2'-5%	2'-6%	1'-11"	2'-0%	2'-1 1/2"	2'-2%	2'-3%	1'-10 1/4"	1'-11 1/8"	2'-0 1/2"	2'-1 1/8"	2'-2 1/4"	1'-10 1/2"	1'-11 1/2"	2'-0 1/2"	2'-1 1/2"	2'-2 1/2"	1'-11 1/4"	2'-0 1/4"	2'-1 1/4"	2'-2 1/2"	2'-3 1/2"	1'-11 1/4"	2'-0 1/4"	2'-1 1/4"	2'-2 1/2"	2'-3 1/2"

6 : 1 Slope	Skew Δ	0°					5°					10°					15°					20°									
		Height H					Height H					Height H					Height H					Height H									
Dimensions	A	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
	B	1'-11"	1'-10"	1'-9"	1'-8"	1'-6"	1'-11"	1'-10"	1'-9"	1'-8"	1'-6"	1'-11"	1'-10"	1'-9"	1'-8"	1'-6"	1'-11"	1'-10"	1'-9"	1'-8"	1'-6"	1'-11"	1'-10"	1'-9"	1'-8"	1'-6"	1'-11"	1'-10"	1'-9"	1'-8"	1'-6"
	C	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"	1'-2"	1'-3"	1'-4"	1'-5"	1'-7"
	D	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"	5'-1"
	E	19'-6"	20'-0"	21'-0"	22'-0"	24'-0"	19'-6"	20'-0"	21'-0"	22'-0"	24'-0"	19'-6"	20'-0"	21'-0"	22'-0"	24'-0"	19'-6"	20'-0"	21'-0"	22'-0"	24'-0"	19'-6"	20'-0"	21'-0"	22'-0"	24'-0"	19'-6"	20'-0"	21'-0"	22'-0"	24'-0"
	F	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"
	G	19'-6"	21'-0"	22'-6"	24'-6"	27'-6"	19'-6"	21'-0"	22'-6"	24'-6"	27'-6"	19'-6"	21'-0"	22'-6"	24'-6"	27'-6"	19'-6"	21'-0"	22'-6"	24'-6"	27'-6"	19'-6"	21'-0"	22'-6"	24'-6"	27'-6"	19'-6"	21'-0"	22'-6"	24'-6"	27'-6"
	J	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"	4'-1"	4'-0"	4'-0"	3'-11"	3'-9"
	K	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%	2'-0%
	L	6'-9"	6'-4"	5'-11"	5'-6"	5'-1"	6'-9"	6'-4"	5'-11"	5'-6"	5'-1"	6'-9"	6'-4"	5'-11"	5'-6"	5'-1"	6'-9"	6'-4"	5'-11"	5'-6"	5'-1"	6'-9"	6'-4"	5'-11"	5'-6"	5'-1"	6'-9"	6'-4"	5'-11"	5'-6"	5'-1"
	M	6'-9"	6'-7"	6'-5"	6'-2"	5'-10"	6'-9"	6'-7"	6'-5"	6'-2"	5'-10"	6'-9"	6'-7"	6'-5"	6'-2"	5'-10"	6'-9"	6'-7"	6'-5"	6'-2"	5'-10"	6'-9"	6'-7"	6'-5"	6'-2"	5'-10"	6'-9"	6'-7"	6'-5"	6'-2"	5'-10"
	N	2'-0%	1'-11"	1'-10 1/4"	1'-10 1/2"	1'-11 1/4"	2'-0%	1'-11"	1'-10 1/4"	1'-10 1/2"	1'-11 1/4"	2'-0%	1'-11"	1'-10 1/4"	1'-10 1/2"	1'-11 1/4"	2'-0%	1'-11"	1'-10 1/4"	1'-10 1/2"	1'-11 1/4"	2'-0%	1'-11"	1'-10 1/4"	1'-10 1/2"	1'-11 1/4"	2'-0%	1'-11"	1'-10 1/4"	1'-10 1/2"	1'-11 1/4"

Height H	'a' bars	'b' bars
8'	#5	#5
9'	#6	#5
10'	#6	#5
11'	#6	#5
12'	#6	#6

Slope	Height H	'c' Bars					Long Wing Wall	Dim 'X'	'd' Bars		
		Short Wing Skew Δ							Short Wing	Long Wing	
2 : 1 Slope	8'	3-#5	3-#5	2-#5	2-#5	-	3-#5	2'-0"	0° to 10°	15° & 20°	0° to 20°
	9'	5-#5	4-#5	3-#5	3-#5	2-#5	5-#5	3'-0"	-	-	-
	10'	8-#6	7-#6	6-#6	5-#6	4-#6	8-#6	4'-3"	3-#5	-	3-#5
	11'	11-#7	10-#7	9-#7	7-#7	6-#7	11-#7	6'-9"	6-#5	5-#5	6-#5
	12'	11-#7	10-#7	9-#7	7-#7	6-#7	11-#7	6'-9"	9-#7	7-#6	9-#7
	4 : 1 Slope	9'	7-#5	6-#5	6-#5	5-#5	4-#5	7-#5	3'-0"	-	-
10'		12-#5	11-#5	10-#5	9-#5	8-#5	12-#5	4'-0"	-	-	-
11'		18-#7	17-#7	16-#7	15-#7	14-#7	18-#7	6'-3"	11-#5	6-#5	11-#5
12'		18-#7	17-#7	16-#7	15-#7	14-#7	1				