Dimension Table															\neg																	
C v U	16' v 14'	16' v 13'	16' x 12'	16' v 11'	16' v 10'	16' x 9'	16' x 8'	16' x 7'	16' x 6'	16' x 5'	16' v 4'	14' v 14'	1/1 > 12		14 × 11			-	14' x 7'	14' × 6'	14' × 5'	14 × 4	12' x 12'	12' x 11'	12' v 10'	12' x 9'	12' x 8'	12' x 7'	12' x 6'	12' v 5'	12' x 4'	SVH
Δ	43'-0	40'-0	37'-0	34'-0	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	43'-0	40'-0	37'-0	34'-0	31-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	37'-0	34'-0	31'-0	28'-0	25'-0	22'-0	19'-0	16-0	13'-0	Δ
В	14'-4	13'-4	12'-4	11 -4	10'-4	9'-4	8-4	7'-4	6-4	5'-4	4'-4	14-4	13-4	12-4	11'-4	10'-4	9'-4	8'-4	7'-4	6'-4	5'-4	4'-4	12'-4	11'-4	10'-4	9'-4	8'-4	7'-4	6-4	5'-4	4'-4	В
C	28'-8	26'-8	24'-8	22'-8	20'-8	18'-8	16'-8	14'-8	12'-8	10'-8	8'-8	28-8	26'-8	24'-8	22'-8	20'-8	18'-8	16'-8	14'-8	12'-8	10'-8	8'-8	24'-8	22'-8	20'-8	18-8	16'-8	14'-8	12'-8	10'-8	8'-8	c
C1	40'-61/5	37'-81/5	34'-10%	32'-0%	29 -2¾	26 -4¾	23'-6%	20'-8%	17'-11	15-1	12 - 3⅓	40'-61/5	37'-81/5	34'-10%	32 -0⅓	29'-2¾	26'-4¾	23'-6%	20'-8%	17'-11	15'-1	12 - 3⅓	34'-10%	32'-0%	29'-2¾	26'-4¾	23'-6%	20'-8%	17'-11	15'-1	12 -31/4	C1
DL	20'-31/4	18'-10⅓	17'-51/4	16'-0¾	14'-7⅓	13 -2¾	11'-9%	10'-41/2	8-11½	7'-6½	6'-11/2	20'-31/4	18'-101/4	17'-51/4	16'-0¾	14'-7¾	13'-2¾	11-9%	10'-41/2	8'-11½	7'-6½	6'-11/2	17'-51/4	16'-0¾	14'-7¾	13'-2¾	11-9%	10'-41/2	8'-11½	7'-6½	6'-1½	DL
DS	12'-2	11 -3¾	10 5%	9.7%	8'-91/4	7'-11	7'-0%	6'-2%	5'-41/2	4'-61/4	3′-8⅓	12 - 2	11-3¾	10'-5%	9'-7%	8'-91/4	7'-11	7'-0%	6'-2%	5'-41/2	4 61/4	3'-81/8	10'-5%	9'-7%	8'-91/4	7 -11	7'-0%	6'-2%	5'-41/2	4'-61/4	3'-81/6	DS
D1	71'-8	66'-8	61'-8	56'-8	51'-8	46'-8	41-8	36'-8	31'-8	26'-8	21'-8	71'-8	66'-8	61'-8	56'-8	51'-8	46'-8	41'-8	36'-8	31'-8	26'-8	21'-8	61'-8	56'-8	51'-8	46'-8	41'-8	36'-8	31'-8	26'-8	21'-8	D1
D2	25'-9%	24'-0	22'-2%	20'-4¾	18 -7⅓	16-9%	15'-0	13'-2¾	11'-4¾	9'-71/4	7'-9%	25'-9%	24'-0	22'-2%	20'-4¾	18'-7⅓	16'-9%	15'-0	13'-2¾	11-4¾	9'-71/4	7'-9⅓	22'-2%	20'-4¾	18'-7⅓	16'-9%	15'-0	13'-2¾	11'-4¾	9'-71/4	7'-9%	D2
Е	48'-5⅓	46'-2	43 - 10 %	41-71/4	39 -4%	37 -1%	34 -101/4	32 - 7⅓	30'-4	28'-0%	25'-9%	46'-51/4	44'-2	41-10%	39 -7¾	37'-4%	35'-1¾	32 - 10 1/4	30'-7⅓	28'-4	26'-0%	23'-9%	39'-10%	37 -7¾	35'-4%	33'-1%	30'-101/4	28'-7⅓	26'-4	24'-0%	21-9%	Е
E1	68'-5%	65'-3½	62'-1%	58'-10¾	55'-8⅓	52 -5%	49'-3½	46'-1⅓	42'-10¾	39'-8⅓	36'-5%	65'-8	62'-5%	59'-3¼	56'-0¾	52'-10%	49'-8	46'-5%	43'-3⅓	40'-0¾	36'-10⅓	33'-8	56'-5¼	53'-2⅓	50'-0½	46'-10	43'-7%	40'-51/4	37'-21/8	34'-0½	30'-10	E1
FL	20'-71/4	19'-21/4	17'-91/4	16'-4¾	14 - 11%	13'-6¾	12'-1%	10'-8½	9'-3½	7'-10½	6'-5½	20'-71/4	19-21/4	17'-91/4	16'-4¾	14 - 11%	13 -6⅓	12 -1¾	10'-8½	9'-3½	7'-10½	6'-5½	17'-9¼	16'-4¾	14 -11%	13'-6¾	12 -1%	10'-8½	9'-3½	7'-10½	6'-5½	FL
FS	12'-6	11-7¾	10'-9%	9'-11%	9'-1¼	8'-3	7'-4%	6'-6%	5'-8½	4'-10¼	4'-0⅓	12 - 6	11-7¾	10'-9%	9'-11%	9'-11/4	8'-3	7'-4%	6'-6%	5'-81/2	4'-101/4	4'-0⅓	10'-9%	9'-11%	9'-11/4	8'-3	7'-4%	6'-6%	5'-8½	4-101/4	4'-0⅓	FS
F1	43'-5%	40'-5%	37'-5%	34'-5%	31 -5⅓	28 -5%	25 5%	22'-5%	19'-5%	16'-5%	13 -5⅓	43-5%	40'-5%	37'-5%	34'-5%	31'-5%	28'-5%	25'-5%	22'-5%	19'-5%	16'-5%	13-5%	37'-5%	34'-5%	31'-5%	28 -5%	25'-5%	22'-5%	19'-5%	16 -5%	13′-5%	F1
F2	3'-4	3 1⅓	2 111/4	2 81/8	2-6½	2'-4	2 11%	1-111/4	1-8%	1 61/2	1'-4	3'-4	3 1%	2 111/4	2'-8%	2'-6½	2'-4	2 1%	1 111/4	1-8%	1'-6½	1'-4	2-111/4	2 -8%	2'-6½	2'-4	2'-1%	1 111/4	1-8%	1'-6½	1'-4	F2
G	15 4	15 4	15'-4	15'-4	15'-4	15'-4	15 4	15'-4	15'-4	15 -4	15 4	13'-4	13'-4	13'-4	13'-4	13'-4	13'-4	13-4	13'-4	13'-4	13'-4	13'-4	11-4	11'-4	11-4	11-4	11-4	11-4	11-4	11-4	11'-4	G
G1	21'-81/4	21'-8¼	21-81/4	21'-81/4	21'-81/4	21'-81/4	21'-81/4	21-81/4	21'-81/4	21'-81/4	21-81/4	18'-10¼	18'-10⅓	18-101/4	18'-101/4	18'-10¼	18'-10⅓	18'-10⅓	18'-10¼	18'-101/4	18'-10¼	18'-10⅓	16'-0¾	16'-0¾	16'-0¾	16'-0%	16'-0%	16'-0⅓	16'-0⅓	16'-0¾	16'-0%	G1
G2	22'-10½	22'-10⅓	22'-10½	22'-10⅓	22'-10%	22 -10%	22'-101/4	22'-10⅓	22'-10	22'-9%	22'-9%	20'-0%	20'-0½	20'-0½	20'-0½	20'-0¾	20'-0%	20'-01/4	20'-01/4	20'-0⅓	19 -11%	19-11¾	17 -2%	17'-2⅓	17'-2½	17'-2⅓	17'-2%	17'-21/4	17'-2⅓	17'-2	17'-1¾	G2
G3	45 91/4	42 7%	39'-5%	36'-3½	33 -11/2	29 111/2	26'-9%	23 - 7%	20 5¾	17'-3¾	14 11/8	45-91/4	42 7%	39'-5¾	36 3½	33'-1½	29 111/2	26'-9%	23'-7%	20'-5¾	17 -3¾	14 1%	39'-5¾	36 3½	33 11⁄2	29'-11½	26'-9%	23'-7%	20'-5¾	17 -3¾	14'-1%	G3
G4	46'-3⅓	42 11%	39'-9½	36'-3	32 -81/2	29'-6%	26'-4%	22-101/4	19'-8⅓	16 6½	13 4¾	46'-31⁄6	42'-11%	39'-9½	36'-3	32'-8⅓	29'-6%	26'-4%	22'-101/4	19'-8⅓	16'-6½	13 4¾	39'-9½	36'-3	32'-8½	29'-6%	26'-4%	22'-101/4	19'-8¾	16'-6⅓	13-4%	G4
G5	14 -8%	13'-8⅓	12-81/8	11 -7%	10'-7%	9-7½	8 - 7 1/4	7'-7	6'-6¾	5'-6%	4'-6¾	14-8%	13'-8%	12'-8⅓	11 - 71/8	10'-7%	9-7½	8-71/4	7'-7	6'-6¾	5 -6%	4 -6⅓	12 -81/8	11 -7%	10 -7%	9-7½	8 - 7 1/4	7'-7	6'-6¾	5'-6%	4 -6%	G5
G6	16'-5½	15'-2%	14-21/8	13'-0½	11-10¾	10-10½	9'-10%	8'-8¾	7'-8½	6'-8%	5'-81/8	16'-5½	15 -2⅓	14'-21/8	13'-0½	11-10¾	10-10½	9'-10%	8'-8¾	7'-8½	6'-8%	5'-81/8	14'-21/8	13'-0½	11'-10¾	10'-10½	9-10%	8'-8¾	7'-8½	6'-8⅓	5'-8⅓	G6
G7	4	1⅓	1%	6%	10½	10½	10½	1'-2¾	1'-2¾	1-2%	1'-2%		1%	1%	61/6	10½	10½	10½	1'-2¾	1'-2¾	1'-2%	1'-21/8	1%	6%	10⅓	10½	10½	1'-2¾	1-2¾	1 -21/8	1'-2%	G7 G8
G8		61/8	61/8	7½ 66'-1	8¼ 60'-3	81/4	81/4	91/4	91/4	9%	9%		6⅓ 77'-9	6% 71-11	7⅓ 66'-1	8¼ 60'-3	81/4	81/4	91/4	91/4	9%	9%	6%	7⅓ 66'-1	81/4	81/4	81/4	91/4	91/4	9¾	9%	68
PL PS	83 6%	77'-9	71'-11		36 -1%	54'-51/8	48-7%	42 - 91/8	36 -111/6	31'-1%	25 31/4	83 6%	46-73/				54'-51%	48 - 71/6	42 -91/8	36-11%	31'-1%	25-31/4	71'-11	39 -71/4	60'-3	54'-51%	48'-71/6	42'-9%	36'-11%	31'-11/8	25'-3¼ 15'-1¾	PL DC
PS	50'-1¾ 84'-9¾	46 - 7¾ 78 - 10¾	43 -1¾ 72 -11%	39 - 7¾ 67 - 0¾	61 1%	32 -7½ 55 -2½	29'-1% 49'-3%	25 - 7% 43 - 4%	22 -1% 37 -5%	18 -7½ 31 -6½	15 - 1% 25 - 7%	50-1¾ 84-9¾	46 /¾ 78 10¾	43 -1¾ 72 -11¾	39 -7¾ 67 -0¾	36 - 1 1/8 61 - 1 1/8	32 -7% 55 -2%	29'-1% 49'-3%	25 -7% 43 -4%	22 -1% 37 -5%	18 - 7 1/6 31 - 6 1/4	15 - 1% 25 - 7%	43 - 1¾ 72 - 11%	67 -0%	36 -1% 61 -1%	32 -7⅓ 55 -2⅓	29 - 1% 49 - 3%	25 -7% 43 -4%	22 -1% 37 -5%	18 - 7 % 31 - 6 %	25 - 7%	P.J
RS	52'-1%	48 -61/4	72 -11% 44 -10%	41-2%	37 71/4	33 -111/5	49 - 3% 30 - 3%	26'-81/4	23 01/5	19'-4%	15 91/4	52 1%	78 10% 48 6¼	44 10%	41 -2%	37 - 71/4	33 - 111/4	30'-3%	26'-81/4	23 -01/5	19 - 4%	25 - 7% 15 - 91⁄4	72'-11% 44'-10%	41 -2%	37 -71/4	33 -111/	49 - 3% 30 - 3%	26'-81/4	23'-01/5	19 4%	25 - 7 % 15 - 9 ½	RS
S1	22 71/8	22 71/5	22 71/5	22 -71/5	22 71/5	22 71/2	22 71/2	20 - 674	22 71/5	22 - 71/5	22 71/5	19 9%	19-9%	19'-9%	19 -9%	19 -9%	19'-9%	19 9%	19'-9%	19 9%	19 - 4 %	19-9%	16-11%	16 11%	16 11%	16 11%	16'-11%	16-11%	16-11%	16 11%	16 11%	S1
F.	1-2	1-2	1-2	1'-2	1-2	1-2	1-2	1-2	1-2	1-2	1'-2	1'-2	11-2	1-2	1'-2	19-978	1'-2	19-978	1 - 2	1'-2	1'-2	19-978	1-2	1'-2	1'-2	1'-2	1 - 2	1'-2	1 -2	1'-2	1'-2	T .
T U	1'-2	1'-0	1'-0	11	10	10	10	9	9	9	9	1'-2	1'-0	1-0	11	10	10	10	9	9	9	9	1'-0	11	10	10	10	9	9	9	9	Ü
w	5'-6	5'-3	5'-0	4'-9	4'-6	4'-3	4'-0	3-9	3'-6	3'-6	3'-6	5 6	5'-3	5-0	4'-9	4-6	4'-3	4'-0	3'-9	3'-6	3'-6	3 - 6	5'-0	4'-9	4-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	w
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Notes:

- 1. See Sheet FWH G2-21 for General Notes, Specifications, See Sheet FWH G2-21 for General Notes, Specifications, and Design Stresses.
 See Sheet FWH 45-1-21 and sheets FWH 45-3-21 thru 45-6-21 for location of certain dimensions tabulated.
 Dimensions are in feet and inches unless otherwise noted.





Standard Design - Single Reinforced Concrete Box Culverts

Flared Wing Headwalls

February, 2021

Dimension Table 45° Skew

FWH 45-2-21 Sheet 1 of 2