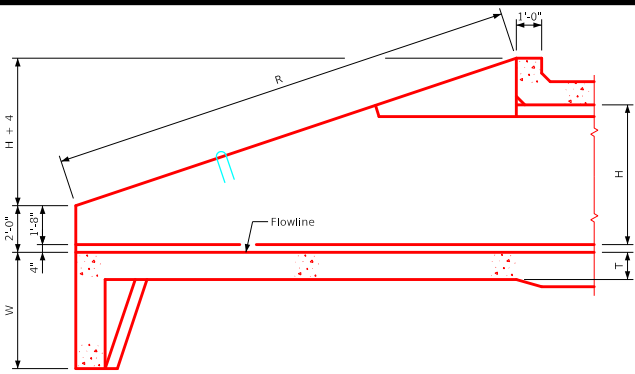


ENGLISHRFDDESIGNEDTWINCULVERTS.DGN - TWPWH 30-1-20 - THIS SHEET ISSUED 07-2020.

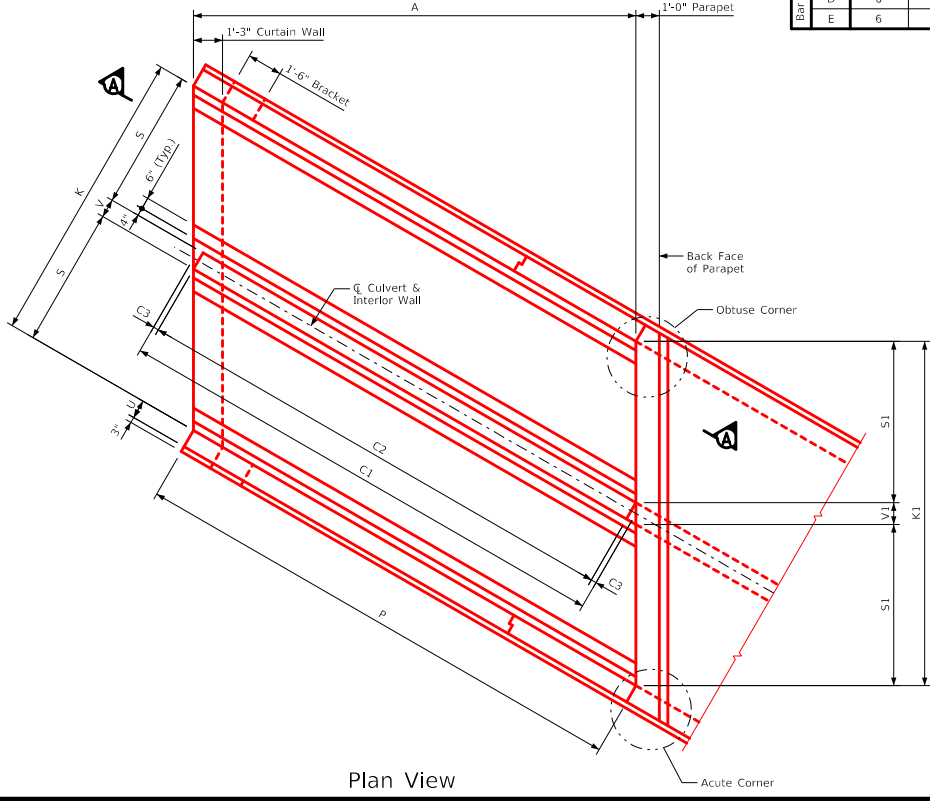


Elevation Section A-A

		Dimension Table																	
S x H	12' x 12'	12' x 11'	12' x 10'	12' x 9'	12' x 8'	12' x 7'	12' x 6'	12' x 5'	12' x 4'	10' x 12'	10' x 11'	10' x 10'	10' x 9'	10' x 8'	10' x 7'	10' x 6'	10' x 5'	10' x 4'	S x H
A	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	A
C1	42'-8 1/2	39'-3 3/8	35'-9 3/8	32'-4	28'-10 1/2	25'-4 1/2	21'-11 1/2	18'-5 1/2	15'-0 1/2	42'-8 1/2	39'-3 3/8	35'-9 3/8	32'-4	28'-10 1/2	25'-4 1/2	21'-11 1/2	18'-5 1/2	15'-0 1/2	C1
C2	42'-1 1/2	38'-8 1/8	35'-3 3/8	31'-10 1/2	28'-4 1/2	24'-11 1/2	21'-6	18'-0 1/2	14'-6 1/2	42'-1 1/2	38'-8 1/8	35'-3 3/8	31'-10 1/2	28'-4 1/2	24'-11 1/2	21'-6	18'-0 1/2	14'-6 1/2	C2
C3	3 1/2	3 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3 1/2	3 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	C3
H	12'-0	11'-0	10'-0	9'-0	8'-0	7'-0	6'-0	5'-0	4'-0	12'-0	11'-0	10'-0	9'-0	8'-0	7'-0	6'-0	5'-0	4'-0	H
K	25'-0	25'-0	24'-10	24'-10	24'-10	24'-9	24'-9	24'-9	24'-9	21'-0	21'-0	20'-10	20'-10	20'-10	20'-9	20'-9	20'-9	20'-9	K
K1	28'-10 1/2	28'-10 1/2	28'-8	28'-8	28'-8	28'-6 1/2	28'-6 1/2	28'-6 1/2	28'-6 1/2	24'-3 1/2	24'-3 1/2	24'-0 1/2	24'-0 1/2	24'-0 1/2	23'-11 1/2	23'-11 1/2	23'-11 1/2	23'-11 1/2	K1
P	42'-8 1/2	39'-3 3/8	35'-9 3/8	32'-4	28'-10 1/2	25'-4 1/2	21'-11 1/2	18'-5 1/2	15'-0 1/2	42'-8 1/2	39'-3 3/8	35'-9 3/8	32'-4	28'-10 1/2	25'-4 1/2	21'-11 1/2	18'-5 1/2	15'-0 1/2	P
R	44'-5 1/2	40'-10 1/2	37'-3 3/8	33'-7 3/8	30'-0 1/2	26'-5 1/2	22'-10	19'-2 1/2	15'-7 1/2	44'-5 1/2	40'-10 1/2	37'-3 3/8	33'-7 3/8	30'-0 1/2	26'-5 1/2	22'-10	19'-2 1/2	15'-7 1/2	R
R1	43'-6 1/2	39'-11 1/2	36'-5 1/2	32'-10 1/2	29'-2 1/2	25'-8 1/2	22'-1	18'-5 1/2	14'-10 1/2	43'-6 1/2	39'-11 1/2	36'-5 1/2	32'-10 1/2	29'-2 1/2	25'-8 1/2	22'-1	18'-5 1/2	14'-10 1/2	R1
S	12'-0	12'-0	12'-0	12'-0	12'-0	12'-0	12'-0	12'-0	12'-0	10'-0	10'-0	10'-0	10'-0	10'-0	10'-0	10'-0	10'-0	10'-0	S
S1	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	13'-10 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	11'-6 1/2	S1
T	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-2	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	1'-1	T
U	1'-0	1'-0	10	10	10	9	9	9	9	1'-0	1'-0	10	10	10	9	9	9	9	U
V	1'-0	1'-0	10	10	10	9	9	9	9	1'-0	1'-0	10	10	10	9	9	9	9	V
V1	1'-1 1/2	1'-1 1/2	11 1/2	11 1/2	11 1/2	10 1/2	10 1/2	10 1/2	10 1/2	1'-1 1/2	1'-1 1/2	11 1/2	11 1/2	11 1/2	10 1/2	10 1/2	10 1/2	10 1/2	V1
W	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
B	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	B
C	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	9	9	1'-0	1'-0	1'-0	1'-0	9	9	9	1'-0	1'-0	C
D	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	9	1'-0	6	6	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	D
E	6	6	6	6	6	6	6	6	6	9	9	9	9	9	9	9	9	9	E

Headwall Dimensions

Bar Spacing



Plan View

		Dimension Table									
S x H	8' x 10'	8' x 9'	8' x 8'	8' x 7'	8' x 6'	8' x 5'	8' x 4'	S x H			
A	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	A			
C1	35'-9 1/2	32'-4	28'-10 1/2	25'-4 1/2	21'-11 1/2	18'-5 1/2	15'-0 1/2	C1			
C2	35'-3 3/8	31'-10 1/2	28'-4 1/2	24'-11 1/2	21'-6	18'-0 1/2	14'-6 1/2	C2			
C3	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	C3			
H	10'-0	9'-0	8'-0	7'-0	6'-0	5'-0	4'-0	H			
K	16'-10	16'-10	16'-10	16'-9	16'-9	16'-9	16'-9	K			
K1	19'-5 1/2	19'-5 1/2	19'-5 1/2	19'-4 1/2	19'-4 1/2	19'-4 1/2	19'-4 1/2	K1			
P	35'-9 1/2	32'-4	28'-10 1/2	25'-4 1/2	21'-11 1/2	18'-5 1/2	15'-0 1/2	P			
R	37'-3 3/8	33'-7 3/8	30'-0 1/2	26'-5 1/2	22'-10	19'-2 1/2	15'-7 1/2	R			
R1	36'-5 1/2	32'-10 1/2	29'-2 1/2	25'-8 1/2	22'-1	18'-5 1/2	14'-10 1/2	R1			
S	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	S			
S1	9'-2 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	9'-2 1/2	S1			
T	11	11	11	11	11	11	11	T			
U	10	10	10	9	9	9	9	U			
V	10	10	10	9	9	9	9	V			
V1	11 1/2	11 1/2	11 1/2	10 1/2	10 1/2	10 1/2	10 1/2	V1			
W	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	W			
B	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	B			
C	1'-0	1'-0	9	9	9	1'-0	1'-0	C			
D	6	6	9	1'-0	1'-0	1'-0	1'-0	D			
E	1'-0	1'-0	9	1'-0	1'-0	1'-0	1'-0	E			

Headwall Dimensions

Bar Spacing

- Notes:
1. See Sheet TWRCB G2-20 for General Notes, Specifications, and Design Stresses.
  2. See Sheets TWPWH 30-2-20 thru 30-5-20 for location of certain dimensions tabulated.
  3. Dimensions are in feet and inches unless otherwise noted.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER		
		Standard Design - Twin Reinforced Concrete Box Culverts	
		Parallel Wing Headwalls	
		July, 2020	
		Dimension Table 30° Skew	TWPWH 30-1-20