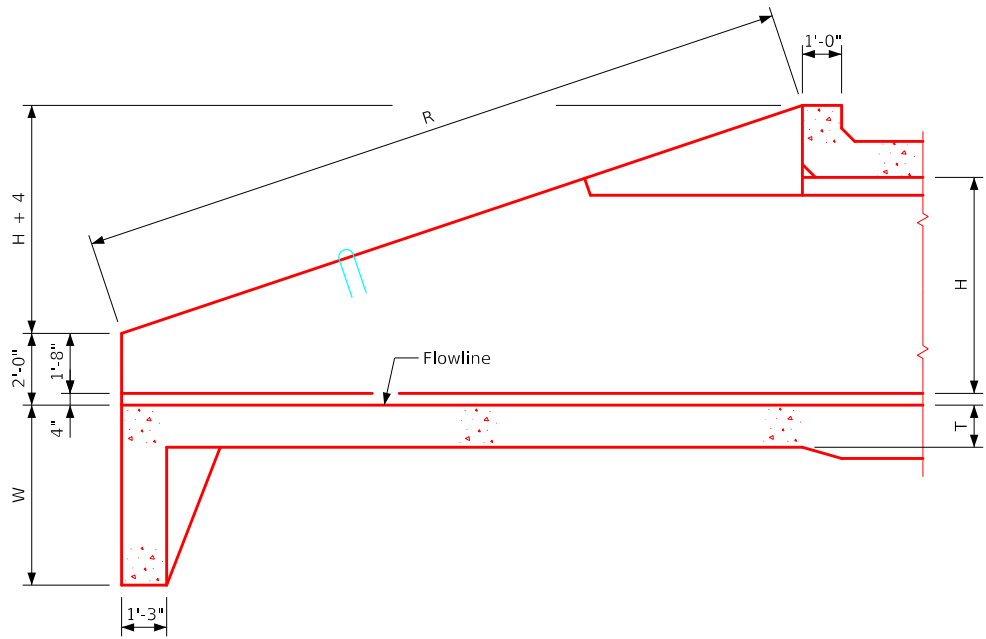
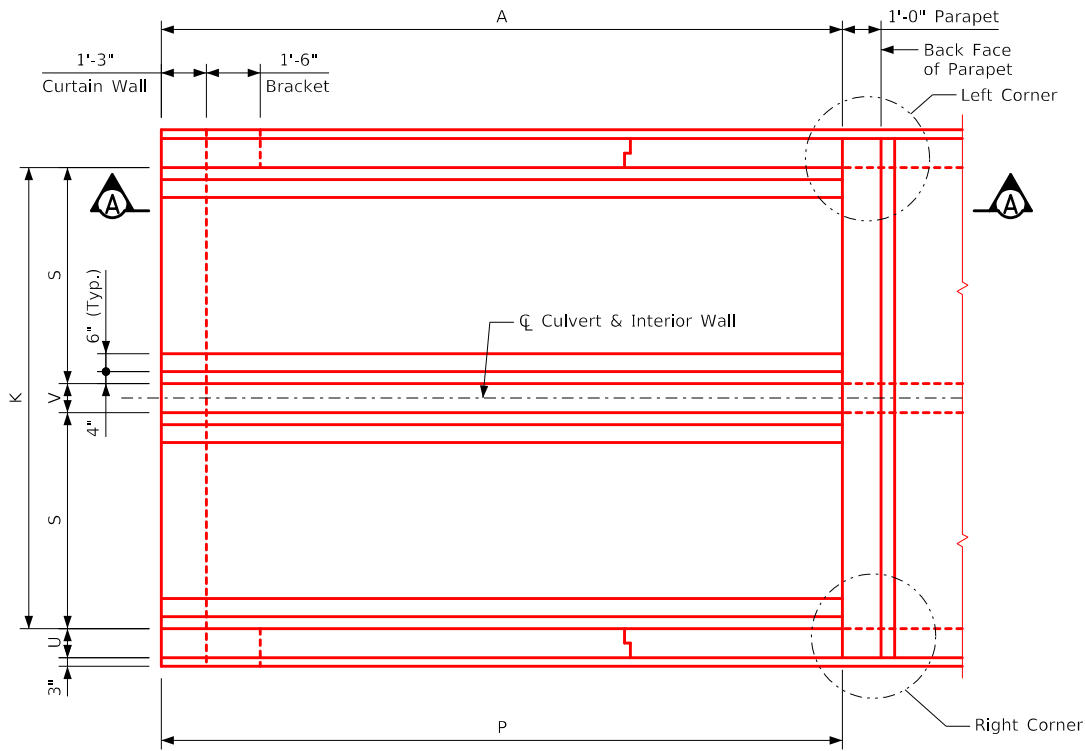


ENGLISHLRFDSDIGNEDTWINCULVERTS.DGN - TWPWH 0-1-20 - THIS SHEET ISSUED 07-2020.



Elevation Section A-A



Plan View


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	
Headwall Dimensions	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
	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	21'-0	21'-0	20'-10	20'-10	20'-10	20'-9	20'-9	20'-9	20'-9	20'-9	K
	P	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	P
	R	39'-0	35'-10⅝	32'-8⅝	29'-6⅝	26'-4¾	23'-2¼	20'-0⅝	16'-10⅝	13'-8½	39'-0	35'-10⅝	32'-8⅝	29'-6⅝	26'-4¾	23'-2¼	20'-0⅝	16'-10⅝	13'-8½	R
	R1	38'-7¼	35'-5¼	32'-3¾	29'-1½	25'-11½	22'-9¾	19'-7¾	16'-5⅝	13'-4¾	38'-7¼	35'-5¼	32'-3¾	29'-1½	25'-11½	22'-9¾	19'-7¾	16'-5⅝	13'-4¾	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
	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
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	
Bar Spacing	B	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	9	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	B
	C	1'-0	1'-0	1'-0	1'-0	9	9	9	1'-0	1'-0	1'-0	1'-0	1'-0	9	9	9	1'-0	1'-0	1'-0	C
	D	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	9	1'-0	6	6	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	D
	E	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	E


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	
Headwall Dimensions	A	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	A
	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
	P	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	P
	R	32'-8½	29'-6½	26'-4¼	23'-2¼	20'-0¾	16'-10¾	13'-8½	R
	R1	32'-3¾	29'-1½	25'-11½	22'-9¾	19'-7¾	16'-5½	13'-4½	R1
	S	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	S
	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
W	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	W	
Bar Spacing	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	1'-0	1'-0	1'-0	1'-0	1'-0	E

Notes:

1. See Sheet TWRCB G2-20 for General Notes, Specifications, and Design Stresses.
2. See Sheets TWPWH 0-2-20 thru 0-5-20 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 0° Skew	TWPWH 0-1-20
----------------------------	-----------------