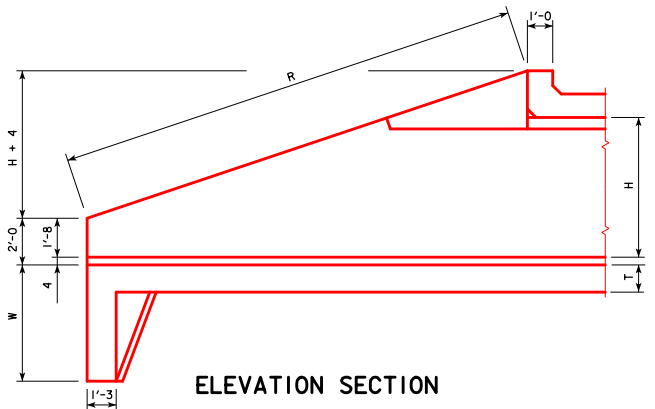
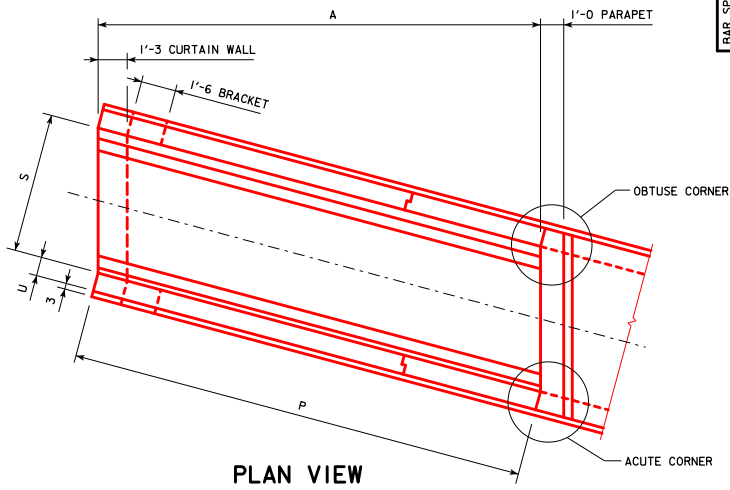


REVISED 12-2016; REMOVED NOTE STATING LOCATION FOR HEADWALL NOTES.  
ENGLISH REDSIGNSIGNEDINLEGULVERTS.DGN - PWH 15-1-12 - THIS SHEET ISSUED 04-12.



**ELEVATION SECTION**



**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
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
P	38'-3 <sup>1</sup> / <sub>2</sub>	35'-2 <sup>1</sup> / <sub>8</sub>	32'-1 <sup>1</sup> / <sub>4</sub>	28'-11 <sup>1</sup> / <sub>4</sub>	25'-10 <sup>3</sup> / <sub>8</sub>	22'-9 <sup>3</sup> / <sub>8</sub>	19'-8 <sup>1</sup> / <sub>8</sub>	16'-6 <sup>3</sup> / <sub>8</sub>	13'-5 <sup>3</sup> / <sub>8</sub>	38'-3 <sup>1</sup> / <sub>2</sub>	35'-2 <sup>1</sup> / <sub>8</sub>	32'-1 <sup>1</sup> / <sub>4</sub>	28'-11 <sup>1</sup> / <sub>4</sub>	25'-10 <sup>3</sup> / <sub>8</sub>	22'-9 <sup>3</sup> / <sub>8</sub>	19'-8 <sup>1</sup> / <sub>8</sub>	16'-6 <sup>3</sup> / <sub>8</sub>	13'-5 <sup>3</sup> / <sub>8</sub>	P
R	40'-2 <sup>1</sup> / <sub>8</sub>	36'-11 <sup>1</sup> / <sub>4</sub>	33'-8 <sup>3</sup> / <sub>8</sub>	30'-5 <sup>1</sup> / <sub>2</sub>	27'-2 <sup>5</sup> / <sub>8</sub>	23'-1 <sup>1</sup> / <sub>8</sub>	20'-8	17'-4 <sup>7</sup> / <sub>8</sub>	14'-1 <sup>1</sup> / <sub>8</sub>	40'-2 <sup>1</sup> / <sub>8</sub>	36'-11 <sup>1</sup> / <sub>4</sub>	33'-8 <sup>3</sup> / <sub>8</sub>	30'-5 <sup>1</sup> / <sub>2</sub>	27'-2 <sup>5</sup> / <sub>8</sub>	23'-1 <sup>1</sup> / <sub>8</sub>	20'-8	17'-4 <sup>7</sup> / <sub>8</sub>	14'-1 <sup>1</sup> / <sub>8</sub>	R
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
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
M	14'-0	13'-0	12'-0	11'-0	9'-0	8'-0	7'-0	6'-0	-	14'-0	13'-0	12'-0	11'-0	9'-0	8'-0	-	-	-	M
B	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	B
C	6	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	6	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	C
D	6	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	6	1'-0	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'	6' x 8'	6' x 7'	6' x 6'	6' x 5'	6' x 4'	6' x 3'	5' x 6'	5' x 5'	5' x 4'	5' x 3'	-	S x H
A	31'-0	28'-0	25'-0	22'-0	19'-0	16'-0	13'-0	25'-0	22'-0	19'-0	16'-0	13'-0	10'-0	19'-0	16'-0	13'-0	10'-0	-	A
H	10'-0	9'-0	8'-0	7'-0	6'-0	5'-0	4'-0	8'-0	7'-0	6'-0	5'-0	4'-0	3'-0	6'-0	5'-0	4'-0	3'-0	-	H
P	32'-1 <sup>1</sup> / <sub>2</sub>	28'-11 <sup>1</sup> / <sub>4</sub>	25'-10 <sup>3</sup> / <sub>8</sub>	22'-9 <sup>3</sup> / <sub>8</sub>	19'-8 <sup>1</sup> / <sub>8</sub>	16'-6 <sup>3</sup> / <sub>8</sub>	13'-5 <sup>3</sup> / <sub>8</sub>	25'-10 <sup>3</sup> / <sub>8</sub>	22'-9 <sup>3</sup> / <sub>8</sub>	19'-8 <sup>1</sup> / <sub>8</sub>	16'-6 <sup>3</sup> / <sub>8</sub>	13'-5 <sup>3</sup> / <sub>8</sub>	10'-4 <sup>1</sup> / <sub>4</sub>	19'-8 <sup>1</sup> / <sub>8</sub>	16'-6 <sup>3</sup> / <sub>8</sub>	13'-5 <sup>3</sup> / <sub>8</sub>	10'-4 <sup>1</sup> / <sub>4</sub>	-	P
R	33'-8 <sup>3</sup> / <sub>8</sub>	30'-5 <sup>1</sup> / <sub>2</sub>	27'-2 <sup>5</sup> / <sub>8</sub>	23'-11 <sup>1</sup> / <sub>4</sub>	20'-8	17'-4 <sup>7</sup> / <sub>8</sub>	14'-1 <sup>1</sup> / <sub>8</sub>	27'-2 <sup>5</sup> / <sub>8</sub>	23'-11 <sup>1</sup> / <sub>4</sub>	20'-8	17'-4 <sup>7</sup> / <sub>8</sub>	14'-1 <sup>1</sup> / <sub>8</sub>	10'-10 <sup>3</sup> / <sub>8</sub>	20'-8	17'-4 <sup>7</sup> / <sub>8</sub>	14'-1 <sup>1</sup> / <sub>8</sub>	10'-10 <sup>3</sup> / <sub>8</sub>	-	R
S	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	8'-0	6'-0	6'-0	6'-0	6'-0	6'-0	6'-0	6'-0	6'-0	6'-0	6'-0	-	S
T	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	-	T
U	10	10	10	9	9	9	9	10	9	9	9	9	9	9	9	9	9	-	U
W	4'-6	4'-3	4'-0	3'-9	3'-6	3'-6	3'-6	4'-0	3'-9	3'-6	3'-6	3'-6	3'-6	3'-6	3'-6	3'-6	3'-6	-	W
M	12'-0	11'-0	9'-0	8'-0	-	-	-	9'-0	8'-0	-	-	-	-	-	-	-	-	-	M
B	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	-	B
C	6	9	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	-	C
D	6	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	-	D
E	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	1'-0	-	E

**NOTES:**

- SEE DRAWING RCB-G1-12 AND RCB-G2-12 FOR GENERAL NOTES, SPECIFICATIONS, AND DESIGN STRESSES.
- SEE DRAWING PWH 15-2-12 THRU 15-4-12 FOR LOCATION OF CERTAIN DIMENSIONS TABULATED.

12-2016  
LATEST REVISION DATE  
*Thomas E. Mc Donnell*  
APPROVED BY BRIDGE ENGINEER



**Iowa Department of Transportation**  
Highway Division

STANDARD DESIGN - SINGLE REINFORCED CONCRETE BOX CULVERTS

**PARALLEL WING HEADWALLS**

APRIL, 2012

**DIMENSION TABLE**  
15° SKEW

**PWH 15-1-12**