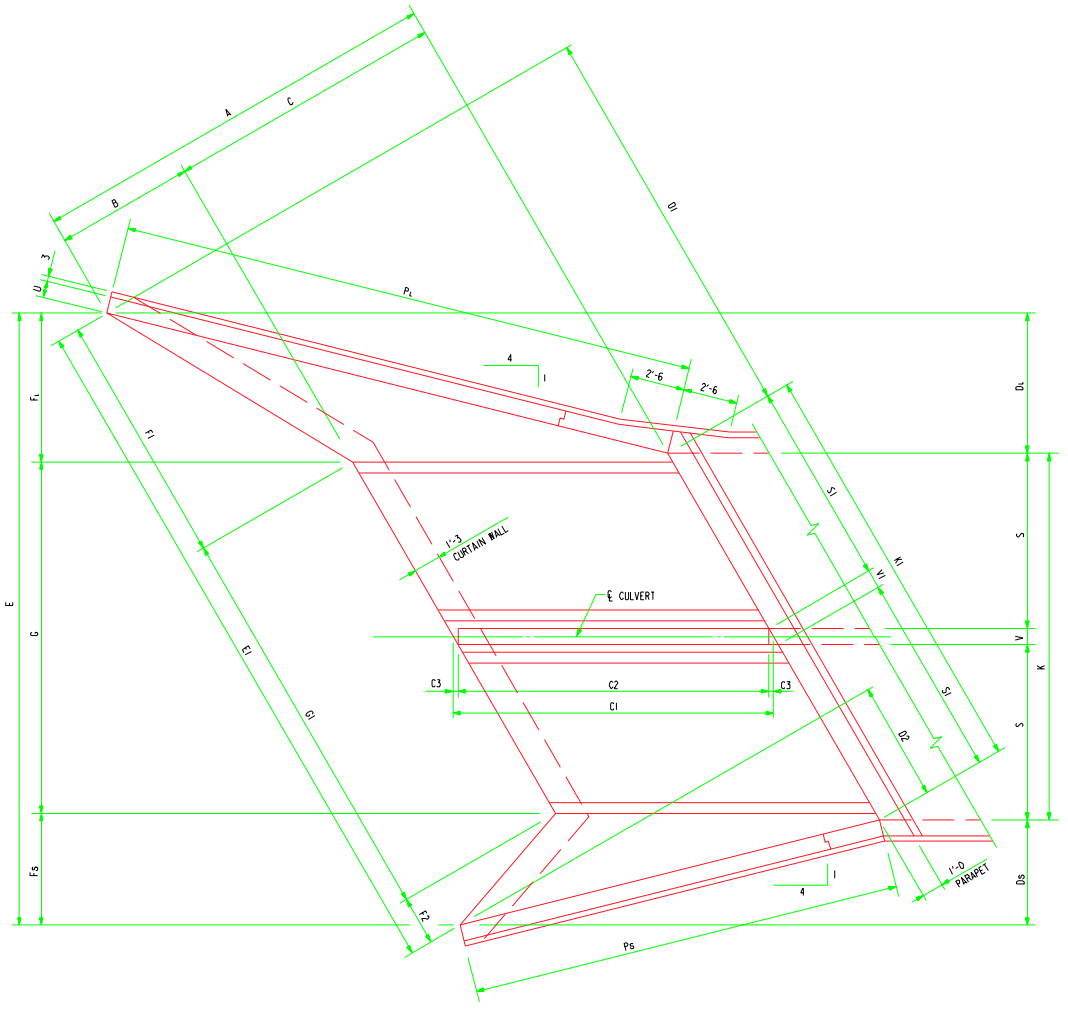

DIMENSION TABLE

S X H	12' X 12'	12' X 10'	12' X 8'	12' X 6'	10' X 12'	10' X 10'	10' X 8'	10' X 6'	8' X 10'	8' X 8'	8' X 6'	S X H
A	37'-0	31'-0	25'-0	19'-0	37'-0	31'-0	25'-0	19'-0	31'-0	25'-0	19'-0	A
B	12'-4	10'-4	8'-4	6'-4	12'-4	10'-4	8'-4	6'-4	10'-4	8'-4	6'-4	B
C	24'-8	20'-8	16'-8	12'-8	24'-8	20'-8	16'-8	12'-8	20'-8	16'-8	12'-8	C
C1	28'-5 3/4	23'-10 3/4	19'-3	14'-7 1/2	28'-5 3/4	23'-10 3/4	19'-3	14'-7 1/2	23'-10 3/4	19'-3	14'-7 1/2	C1
C2	27'-10 7/8	23'-4 3/8	18'-9 1/4	14'-2 1/8	27'-10 7/8	23'-4 3/8	18'-9 1/8	14'-2 1/8	23'-4 3/8	18'-9 1/8	14'-2 3/8	C2
C3	3 1/2"	2 1/8"	2 1/8"	2 1/8"	3 1/2"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	2 1/8"	C3
DL	12'-5 3/4	10'-5 1/2	8'-5 1/4	6'-4 7/8	12'-5 3/4	10'-5 1/2	8'-5 1/4	6'-4 7/8	10'-5 1/2	8'-5 1/4	6'-4 7/8	DL
Ds	9'-4	7'-9 3/8	6'-3 5/8	4'-9 1/2	9'-4	7'-9 3/8	6'-3 5/8	4'-9 1/2	7'-9 3/8	6'-3 5/8	4'-9 1/2	Ds
DI	35'-9 3/8	29'-11 1/2	24'-2 3/8	18'-4 1/2	35'-9 3/8	29'-11 1/2	24'-2 3/8	18'-4 1/2	29'-11 1/2	24'-2 3/8	18'-4 1/2	DI
D2	10'-7	8'-10 3/8	7'-1 3/8	5'-5 1/4	10'-7	8'-10 3/8	7'-1 3/8	5'-5 1/4	8'-10 3/8	7'-1 3/8	5'-5 1/4	D2
E	46'-9 1/2	43'-1 3/8	39'-6 1/4	35'-11 1/2	42'-9 1/2	39'-1 3/8	35'-6 1/4	31'-11 1/2	35'-1 3/8	31'-6 1/8	27'-11 1/2	E
EI	54'-0 1/2	49'-3 1/2	45'-8 1/2	41'-6 1/4	49'-5 1/4	45'-2	41'-0 1/8	36'-10 3/4	40'-6 1/2	36'-5 1/2	32'-3 3/8	EI
FL	12'-9 3/4	10'-9 1/2	8'-9 1/4	6'-8 1/8	12'-9 3/4	10'-9 1/2	8'-9 1/4	6'-8 1/4	10'-9 1/2	8'-9 1/4	6'-8 1/8	FL
Fs	9'-8	8'-1 1/4	6'-7 3/8	5'-1 1/2	9'-8	8'-1 1/4	6'-7 3/8	5'-1 1/2	8'-1 1/4	6'-7 3/8	5'-1 1/2	Fs
F1	21'-11	18'-5 3/8	14'-11 1/4	11'-5 3/8	21'-11	18'-5 3/8	14'-11 1/4	11'-5 3/8	18'-5 3/8	14'-11 1/4	11'-5 3/8	F1
F2	4'-0 1/2	3'-5 3/8	2'-10 1/4	2'-3 1/8	4'-0 1/2	3'-5 3/8	2'-10 1/4	2'-3 1/8	3'-5 3/8	2'-10 1/4	2'-3 1/8	F2
G	24'-4	24'-2	24'-2	24'-1	20'-4	20'-2	20'-2	20'-1	16'-2	16'-2	16'-1	G
G1	28'-1 1/8	27'-10 7/8	27'-10 3/8	27'-9 3/4	23'-5 3/8	23'-3 1/2	23'-3 1/2	23'-2 1/4	18'-8	18'-8	18'-6 7/8	G1
G2	29'-4	29'-1 3/8	29'-1 1/2	29'-0 1/4	24'-8 1/2	24'-6 1/8	24'-6	24'-4 1/2	19'-10 3/8	19'-10 3/8	19'-9 1/4	G2
G3	25'-1 3/8	21'-11 1/2	17'-11 1/4	13'-1	25'-1 3/8	21'-11 1/2	17'-11 1/4	13'-1	21'-1 1/2	17'-1 1/4	13'-1	G3
G4	25'-7 7/8	21'-0 3/8	17'-0 3/8	12'-8 1/2	25'-7 7/8	21'-0 3/8	17'-0 3/8	12'-8 1/2	21'-0 3/8	17'-0 3/8	12'-8 1/2	G4
G5	12'-11 1/2	10'-10 3/8	8'-9 3/8	6'-8 1/2	12'-11 1/2	10'-10 3/8	8'-9 3/8	6'-8 1/2	10'-10 3/8	8'-9 3/8	6'-8 3/8	G5
G6	14'-3 1/4	11'-10 3/8	9'-9 3/8	7'-7	14'-3 1/4	11'-10 3/8	9'-9 3/8	7'-7	11'-10 3/8	9'-9 3/8	7'-7	G6
G7	2 1/4"	8 7/8"	8 7/8"	1'-0	2 1/4"	8 7/8"	8 7/8"	1'-0	8 7/8"	8 7/8"	1'-0	G7
G8	4 3/8"	7 3/8"	7 3/8"	9"	4 3/8"	7 3/8"	7 3/8"	9"	7 3/8"	7 3/8"	9"	G8
K	25'-0	24'-10	24'-10	24'-9	21'-0	20'-10	20'-10	20'-9	16'-10	16'-10	16'-9	K
KI	28'-10 3/8	28'-8 1/8	28'-8 1/4	28'-7	24'-3	24'-0 3/8	24'-0 3/8	23'-11 1/2	19'-5 1/4	19'-5 1/4	19'-4 1/8	KI
PL	51'-5 3/8	43'-1 1/2	34'-9 1/2	26'-5 3/8	51'-5 3/8	43'-1 1/2	34'-9 1/4	26'-5 3/8	43'-1 1/2	34'-9 1/4	26'-5 1/8	PL
Ps	38'-5 3/4	32'-2 3/8	26'-0	19'-9 1/4	38'-5 3/4	32'-2 3/8	26'-0	19'-9 1/4	32'-2 3/8	26'-0	19'-9 1/8	Ps
RL	52'-11 1/8	44'-4 3/8	35'-9 1/4	27'-2 1/8	52'-11 1/8	44'-4 3/8	35'-9 1/8	27'-2 1/8	44'-4 3/8	35'-9 1/8	27'-2 1/8	RL
Rs	40'-5	33'-10 1/2	27'-3 3/8	20'-9	40'-5	33'-10 1/4	27'-3 3/8	20'-9	33'-10 1/4	27'-3 3/8	20'-9	Rs
RI	30'-0	25'-0 3/8	20'-0 3/8	15'-0 3/8	30'-0	25'-0 3/8	20'-0 3/8	15'-0 3/8	25'-0 3/8	20'-0 3/8	15'-0 3/8	RI
SI	13'-10 1/4	13'-10 1/4	13'-10 1/4	13'-10 1/4	11'-6 3/8	11'-6 3/8	11'-6 3/8	11'-6 3/8	9'-2 3/8	9'-2 3/8	9'-2 3/8	SI
T	1'-2	1'-2	1'-2	1'-2	1'-1	1'-1	1'-1	1'-1	11"	11"	11"	T
U	1'-0	10"	10"	9"	1'-0	10"	10"	9"	10"	10"	9"	U
V	1'-0	10"	10"	9"	1'-0	10"	10"	9"	10"	10"	9"	V
VI	1'-1 7/8"	11 1/2"	11 1/2"	10 5/8"	1'-1 7/8"	11 1/2"	11 1/2"	10 5/8"	11 1/2"	11 1/2"	10 5/8"	VI
W	5'-0	4'-6	4'-0	3'-6	5'-0	4'-6	4'-0	3'-6	4'-6	4'-0	3'-6	W

NOTES:

1. SEE DRAWING TWRCB-GI-87 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.
2. SEE DRAWING TWH 30-2-87 THRU 30-4-87 FOR LOCATION OF CERTAIN DIMENSIONS TABULATED.
3. SEE DRAWING TWH 30-5-87 FOR HEADWALL NOTES.

LATEST REVISION DATE : 12-5-96

APPROVED BY : William A. Knapp

STANDARD DESIGN

FLARED WING HEADWALLS

FOR

TWIN REINFORCED CONCRETE BOX CULVERTS

HIGHWAY DIVISION

IOWA DEPARTMENT OF TRANSPORTATION

JULY , 1987

TWH 30-1-87

REVISED : 12/96 ; NOTE CORRECTED.
TWH301.501

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