CULVERT DIMENSIONS

CULVERT HEIGHT	"J"	"LW"	"N1"	"N2"	"R"	"Z"	"Y" CLEAR SPANS 4'	5'	6'	8'	10'	12'	14'	16'	18'	20'
4'	3'10"	12'-2 7/8"			1 1/16"	11'-8 1/16"	16'-11 3/16"	18'-11 3/16"	20'-11 3/16"	24'-11 11/16"	29'-0 3/16"	33'-0 3/16"				
5'	4'-6"	14'-4 3/8"			1 1/16"	13'-8 1/16"		20'-4 5/8"	22'-5 5/8"	26'-5 5/8"	30'-5 5/8"	34'-6 1/8"	38'-6 5/8"			
6'	5'9"	18'-4 5/16"			1 1/4"	17'-5 3/8"			25'-2 1/2"	29'-3"	33'-3"	37'-3"	41'-4"	45'-4 1/2"		
8'	7'-4"	23'-4 15/16"			1 1/2"	22'-2 15/16"				32'-9 3/16"	36'-9 11/16"	40'-10 3/16"	44'-10 3/16"	48'-10 11/16"		
10'	8'-4"	26'-7 1/4"	2'-11"	6'6"	1 3/4"	25'-3 7/16"					39'-1 1/16"	43'-1 1/16"	47'-1 9/16"	51'-2 1/16"	55'-3 1/16"	
12'	9'-7"	30'-7 5/8"	3'3"	7'0"	1 15/16"	29'-0 3/4"						45'-11 7/16"	49'-11 7/16"	53'-11 15/16"	58'-0 7/16"	62'-0 7/16"

ESTIMATED QUANTITIES ~ CULVERT (L = 150 FT.)

CLEAR SPANS

CULVERT HEIGHT	4' Concrete Cu. Yds.	4' Reinf. Steel Lbs.	5' Concrete Cu. Yds.	5' Reinf. Steel Lbs.	6' Concrete Cu. Yds.	6' Reinf. Steel Lbs.	8' Concrete Cu. Yds.	8' Reinf. Steel Lbs.	10' Concrete Cu. Yds.	10' Reinf. Steel Lbs.	12' Concrete Cu. Yds.	12' Reinf. Steel Lbs.	14' Concrete Cu. Yds.	14' Reinf. Steel Lbs.	16' Concrete Cu. Yds.	16' Reinf. Steel Lbs.	18' Concrete Cu. Yds.	18' Reinf. Steel Lbs.	20' Concrete Cu. Yds.	20' Reinf. Steel Lbs.	CULVERT HEIGHT
4'	107.52	14,029	127.43	16,705	149.20	20,413	202.15	26,510	262.75	32,931	338.83	39,427									4'
5'			138.74	17,703	165.10	20,523	214.63	26,068	276.24	34,293	357.64	42,221	450.26	53,006							5'
6'					194.42	23,255	252.27	28,376	302.10	35,883	379.72	44,487	480.00	54,507	586.12	63,571					6'
8'							311.06	35,899	382.58	44,263	474.16	50,382	555.71	58,078	652.15	72,367					8'
10'									445.96	48,545	519.39	57,556	609.03	62,476	723.18	74,883	856.71	88,673			10'
12'											612.14	63,646	695.94	70,591	813.86	80,523	943.35	98,234	1053.44	113,492	12'

HEIGHT = 12 FT.

BAR LIST FOR WINGS & APRONS

BAR	SIZE	NO. REQUIRED SPAN 12'	14'	16'	18'	20'	DIM. X	DIM. X1	LENGTH
T1	#4	2	2	2	2	2			2S+2'-5"
T2	#4	2	2	2	2	2			2S+3'-2"
T3	#4	2	2	2	2	2			2S+3'-11"
T4	#4	2	2	2	2	2			2S+4'-8"
T5	#4	2	2	2	2	2			2S+5'-5"
T6	#4	2	2	2	2	2			2S+6'-2"
T7	#4	2	2	2	2	2			2S+6'-11"
T8	#4	2	2	2	2	2			2S+7'-8"
T9	#4	2	2	2	2	2			2S+8'-5"
T10	#4	2	2	2	2	2			2S+9'-2"
T11	#4	2	2	2	2	2			2S+9'-11"
T12	#4	2	2	2	2	2			2S+10'-8"
T13	#4	2	2	2	2	2			2S+11'-5"
T14	#4	2	2	2	2	2			2S+12'-2"
T15	#4	2	2	2	2	2			2S+12'-11"
T16	#4	2	2	2	2	2			2S+13'-8"
T17	#4	2	2	2	2	2			2S+14'-5"
T18	#4	2	2	2	2	2			2S+15'-2"
T19	#4	2	2	2	2	2			2S+15'-11"
T20	#4	2	2	2	2	2			2S+16'-8"
T21	#4	2	2	2	2	2			2S+17'-5"
T22	#4	2	2	2	2	2			2S+18'-1"
T23	#4	2	2	2	2	2			2S+18'-10"
T24	#4	2	2	2	2	2			2S+19'-7"
T25	#4	2	2	2	2	2			2S+20'-4"
T26	#4	2	2	2	2	2			2S+21'-1"
T27	#4	2	2	2	2	2			2S+21'-10"
T28	#4	2	2	2	2	2			2S+22'-7"
T29	#4	6	6	6	6	6			2S+22'-7"
U	#4	12	12	12	12	12			30'-3"
V1	#4	54	62	70	78	86	28'-8"	1'-8"	30'-4"
V2	#4	4	4	4	4	4	26'-7"	1'-8"	28'-3"
V3	#4	4	4	4	4	4	23'-10"	1'-8"	25'-6"
V4	#4	4	4	4	4	4	21'-1"	1'-8"	22'-9"
V5	#4	4	4	4	4	4	18'-4"	1'-8"	20'-0"
V6	#4	4	4	4	4	4	15'-7"	1'-8"	17'-3"
V7	#4	4	4	4	4	4	12'-10"	1'-8"	14'-6"
V8	#4	4	4	4	4	4	10'-1"	1'-8"	11'-9"
V9	#4	4	4	4	4	4	7'-4"	1'-8"	9'-0"
V10	#4	4	4	4	4	4	4'-7"	1'-8"	6'-3"
W1	#7	20	20	20	20	20	6'-5"	W+9'-6"	W+15'-11"
W2	#7	20	20	20	20	20	6'-0"	W+8'-6"	W+14'-6"
W3	#7	12	12	12	12	12	5'-8"	W+7'-8"	W+13'-4"
W4	#7	12	12	12	12	12	5'-4"	W+6'-10"	W+12'-2"
W5	#6	12	12	12	12	12	5'-0"	W+6'-0"	W+11'-0"
W6	#6	12	12	12	12	12	4'-8"	W+5'-2"	W+9'-10"
W7	#5	12	12	12	12	12	4'-3"	W+4'-2"	W+8'-5"
W8	#5	12	12	12	12	12	3'-11"	W+3'-3"	W+7'-2"
W9	#4	12	12	12	12	12	3'-7"	W+2'-3"	W+5'-10"
W10	#4	8	8	8	8	8	3'-4"	W+1'-7"	W+4'-11"
W11	#4	8	8	8	8	8	3'-1"	W+1'-0"	W+4'-1"
W12	#4	4	4	4	4	4	3'-0"	W+0'-8"	W+3'-8"
Y1	#4	8	8	8	8	8			5'-8"
Y2	#4	8	8	8	8	8			9'-8"
Y3	#4	8	8	8	8	8			13'-8"
Y4	#4	8	8	8	8	8			17'-8"
Y5	#4	8	8	8	8	8			21'-8"
Y6	#4	8	8	8	8	8			25'-8"
Y7	#4	8	8	8	8	8			29'-8"
Y8	#4	24	24	24	24	24			30'-3"

HEIGHT = 10 FT.

BAR LIST FOR WINGS & APRONS

BAR	SIZE	NO. REQUIRED SPAN 10'	12'	14'	16'	18'	DIM. X	DIM. X1	LENGTH
T1	#4	2	2	2	2	2			2S+2'-0"
T2	#4	2	2	2	2	2			2S+2'-6"
T3	#4	2	2	2	2	2			2S+3'-3"
T4	#4	2	2	2	2	2			2S+4'-0"
T5	#4	2	2	2	2	2			2S+4'-9"
T6	#4	2	2	2	2	2			2S+5'-6"
T7	#4	2	2	2	2	2			2S+6'-3"
T8	#4	2	2	2	2	2			2S+7'-0"
T9	#4	2	2	2	2	2			2S+7'-9"
T10	#4	2	2	2	2	2			2S+8'-6"
T11	#4	2	2	2	2	2			2S+9'-3"
T12	#4	2	2	2	2	2			2S+10'-0"
T13	#4	2	2	2	2	2			2S+10'-7"
T14	#4	2	2	2	2	2			2S+11'-4"
T15	#4	2	2	2	2	2			2S+12'-1"
T16	#4	2	2	2	2	2			2S+12'-10"
T17	#4	2	2	2	2	2			2S+13'-7"
T18	#4	2	2	2	2	2			2S+14'-4"
T19	#4	2	2	2	2	2			2S+15'-1"
T20	#4	2	2	2	2	2			2S+15'-10"
T21	#4	2	2	2	2	2			2S+16'-7"
T22	#4	2	2	2	2	2			2S+17'-4"
T23	#4	2	2	2	2	2			2S+18'-1"
T24	#4	2	2	2	2	2			2S+18'-9"
T25	#4	2	2	2	2	2			2S+19'-5"
T26	#4	6	6	6	6	6			2S+19'-8"
U	#4	12	12	12	12	12			26'-3"
V1	#4	46	54	62	70	78	24'-11"	1'-8"	26'-7"
V2	#4	4	4	4	4	4	22'-7"	1'-8"	24'-3"
V3	#4	4	4	4	4	4	19'-10"	1'-8"	21'-6"
V4	#4	4	4	4	4	4	17'-1"	1'-8"	18'-9"
V5	#4	4	4	4	4	4	14'-4"	1'-8"	16'-0"
V6	#4	4	4	4	4	4	11'-7"	1'-8"	13'-3"
V7	#4	4	4	4	4	4	8'-10"	1'-8"	10'-6"
V8	#4	4	4	4	4	4	6'-1"	1'-8"	7'-9"
V9	#4	4	4	4	4	4	3'-4"	1'-8"	5'-0"
W1	#6	20	20	20	20	20	5'-10"	W+8'-1"	W+13'-11"
W2	#6	20	20	20	20	20	5'-5"	W+7'-2"	W+12'-7"
W3	#5	20	20	20	20	20	5'-0"	W+6'-3"	W+11'-3"
W4	#5	12	12	12	12	12	4'-8"	W+5'-7"	W+10'-3"
W5	#5	12	12	12	12	12	4'-5"	W+4'-11"	W+9'-4"
W6	#4	12	12	12	12	12	4'-2"	W+4'-1"	W+8'-3"
W7	#4	12	12	12	12	12	3'-10"	W+3'-5"	W+7'-3"
W8	#4	12	12	12	12	12	3'-5"	W+2'-7"	W+6'-0"
W9	#4	8	8	8	8	8	3'-2"	W+2'-0"	W+5'-2"
W10	#4	8	8	8	8	8	2'-11"	W+1'-4"	W+4'-3"
W11	#4	8	8	8	8	8	2'-8"	W+0'-8"	W+3'-4"
Y1	#4	8	8	8	8	8			5'-4"
Y2	#4	8	8	8	8	8			9'-4"
Y3	#4	8	8	8	8	8			13'-4"
Y4	#4	8	8	8	8	8			17'-4"
Y5	#4	8	8	8	8	8			21'-4"
Y6	#4	8	8	8	8	8			25'-4"
Y7	#4	16	16	16	16	16			26'-3"

HEIGHT = 8 FT.

BAR LIST FOR WINGS & APRONS

BAR	SIZE	NO. REQUIRED SPAN 8'	10'	12'	14'	16'	DIM. X	DIM. X1	LENGTH
T1	#4	2	2	2	2	2			2S+1'-7"
T2	#4	2	2	2	2	2			2S+2'-2"
T3	#4	2	2	2	2	2			2S+2'-11"
T4	#4	2	2	2	2	2			2S+3'-8"
T5	#4	2	2	2	2	2			2S+4'-5"
T6	#4	2	2	2	2	2			2S+5'-2"
T7	#4	2	2	2	2	2			2S+5'-11"
T8	#4	2	2	2	2	2			2S+6'-8"
T9	#4	2	2	2	2	2			2S+7'-4"
T10	#4	2	2	2	2	2			2S+8'-1"
T11	#4	2	2	2	2	2			2S+8'-10"
T12	#4	2	2	2	2	2			2S+9'-7"
T13	#4	2	2	2	2	2			2S+10'-4"
T14	#4	2	2	2	2	2			2S+11'-1"
T15	#4	2	2	2	2	2			2S+11'-10"
T16	#4	2	2	2	2	2			2S+12'-7"
T17	#4	2	2	2	2	2			2S+13'-4"
T18	#4	2	2	2	2	2			2S+14'-1"
T19	#4	2	2	2	2	2			2S+14'-10"
T20	#4	2	2	2	2	2			2S+15'-7"
T21	#4	2	2	2	2	2			2S+16'-4"
T22	#4	2	2	2	2	2			2S+17'-0"
T23	#4	6	6	6	6	6			2S+17'-3"
U	#4	12	12	12	12	12			23'-0"
V1	#4	38	46	54	62	70	21'-11"	1'-8"	23'-7"
V2	#4	4	4	4	4	4	19'-2"	1'-8"	20'-10"
V3	#4	4	4	4	4	4	16'-5"	1'-8"	18'-1"
V4	#4	4	4	4	4	4	13'-8"	1'-8"	15'-4"
V5	#4	4	4	4	4	4	10'-11"	1'-8"	12'-7"
V6	#4	4	4	4	4	4	8'-2"	1'-8"	9'-10"
V7	#4	4	4	4	4	4	5'-5"	1'-8"	7'-1"
W1	#5	24	24	24	24	24	4'-6"	W+6'-9"	W+11'-3"
W2	#5	20	20	20	20	20	4'-1"	W+5'-7"	W+9'-8"
W3	#5	12	12	12	12	12	3'-7"	W+4'-7"	W+8'-2"
W4	#4	12	12	12	12	12	3'-3"	W+3'-7"	W+6'-10"
W5	#4	12	12	12	12	12	2'-11"	W+2'-7"	W+5'-6"
W6	#4	12	12	12	12	12	2'-7"	W+1'-7"	W+4'-2"
W7	#4	8	8	8	8	8	2'-3"	W+1'-0"	W+3'-3"
W8	#4	8	8	8	8	8	2'-0"	W+0'-5"	W+2'-5"
Y1	#4	8	8	8	8	8			4'-10"
Y2	#4	8	8	8	8	8			8'-0"
Y3	#4	8	8	8	8	8			11'-2"
Y4	#4	8	8	8	8	8			14'-4"
Y5	#4	8	8	8	8	8			17'-6"
Y6	#4	8	8	8	8	8			20'-8"
Y7	#4	16	16	16	16	16			23'-0"

HEIGHT = 6 FT.

BAR LIST FOR WINGS & APRONS

BAR	SIZE	NO. REQUIRED SPAN 6'	8'	10'	12'	14'	16'	DIM. X	DIM. X1	LENGTH
T1	#4	2	2	2	2	2	2			2S+1'-4"
T2	#4	2	2	2	2	2	2			2S+2'-1"
T3	#4	2	2	2	2	2	2			2S+2'-10"
T4	#4	2	2	2	2	2	2			2S+3'-7"
T5	#4	2	2	2	2	2	2			2S+4'-4"
T6	#4	2	2	2	2	2	2			2S+5'-1"
T7	#4	2	2	2	2	2	2			2S+5'-10"
T8	#4	2	2	2	2	2	2			2S+6'-7"
T9	#4	2	2	2	2	2	2			2S+7'-4"
T10	#4	2	2	2	2	2	2			2S+8'-1"
T11	#4	2	2	2	2	2	2			2S+8'-10"
T12	#4	2	2	2	2	2	2			2S+9'-7"
T13	#4	2	2	2	2	2	2			2S+10'-3"
T14	#4	2	2	2	2	2	2			2S+11'-0"
T15	#4	2	2	2	2	2	2			2S+11'-9"
T16	#4	2	2	2	2	2	2			2S+12'-6"
T17	#4	2	2	2	2	2	2			2S+13'-3"
T18	#4	6	6	6	6	6	6			2S+13'-8"
U	#4	12	12	12	12	12	12			18'-0"
V1	#4	30	38	46	54	62	70	17'-1"	1'-8"	18'-9"
V2	#4	4	4	4	4	4	4	14'-1"	1'-8"	15'-9"
V3	#4	4	4	4	4	4	4	11'-4"	1'-8"	13'-0"
V4	#4	4	4	4	4	4	4	8'-7"	1'-8"	10'-3"
V5	#4	4	4	4	4	4	4	5'-10"	1'-8"	7'-6"
V6	#4	4	4	4	4	4	4	3'-1"	1'-8"	4'-9"
W1	#4	20	20	20	20	20	20	4'-0"	W+5'-4"	W+9'-4"
W2	#4	12	12	12	12	12	12	3'-8"	W+4'-9"	W+8'-5"
W3	#4	12	12	12	12	12	12	3'-5"	W+4'-0"	W+7'-5"
W4	#4	12	12	12	12	12	12	3'-0"	W+3'-2"	W+6'-2"
W5	#4	12	12	12	12	12	12	2'-8"	W+2'-3"	W+4'-11"
W6	#4	12	12	12	12	12	12	2'-4"	W+1'-4"	W+3'-8"
W7	#4	12	12	12	12	12	12	2'-0"	W+0'-5"	W+2'-5"
Y1	#4	4	4	4	4	4	4			4'-10"
Y2	#4	4	4	4	4	4	4			8'-1"
Y3	#4	4	4	4	4	4	4			11'-3"
Y4	#4	4	4	4	4	4	4			14'-5"
Y5	#4	4	4	4	4	4	4			17'-7"
Y6	#4	4	4	4	4	4	4			18'-0"

HEIGHT = 5 FT.

BAR LIST FOR WINGS & APRONS

BAR	SIZE	NO. REQUIRED SPAN 5'	6'	8'	10'	12'	14'	DIM. X	DIM. X1	LENGTH
T1	#4	2	2	2	2	2	2			2S+1'-4"
T2	#4	2	2	2	2	2	2			2S+2'-1"
T3	#4	2	2	2	2	2	2			2S+2'-10"
T4	#4	2	2	2	2	2	2			2S+3'-7"
T5	#4	2	2	2	2	2	2			2S+4'-4"
T6	#4	2	2	2	2	2	2			2S+5'-1"
T7	#4	2	2	2	2	2	2			2S+5'-10"
T8	#4	2	2	2	2	2	2			2S+6'-7"
T9	#4	2	2	2	2	2	2			2S+7'-3"
T10	#4	2	2	2	2	2	2			2S+8'-0"
T11	#4	2	2	2	2	2	2			2S+8'-9"
T12	#4	2	2	2	2	2	2			2S+9'-6"
T13	#4	2	2	2	2	2	2			2S+10'-3"
T14	#4	6	6	6	6	6	6			2S+10'-11"
U	#4	8	8	8	8	8	8			14'-0"
V1	#4	26	30	38	46	54	62	13'-4"	1'-8"	15'-0"
V2	#4	4	4	4	4	4	4	10'-0"	1'-8"	11'-8"
V3	#4	4	4	4	4	4	4	7'-3"	1'-8"	8'-11"
V4	#4	4	4	4	4	4	4	4'-6"	1'-8"	6'-2"
V5	#4	4	4	4	4	4	4	1'-9"	1'-8"	3'-5"
W1	#4	12	12	12	12	12	12	3'-0"	W+4'-4"	W+7'-4"
W2	#4	12	12	12	12	12	12	2'-10"	W+3'-10"	W+6'-8"
W3	#4	12	12	12	12	12	12	2'-7"	W+3'-2"	W+5'-9"
W4	#4	12	12	12	12	12	12	2'-3"	W+2'-3"	W+4'-6"
W5	#4	12	12	12	12	12	12	1'-11"	W+1'-4"	W+3'-3"
W6	#4	12	12	12	12	12	12	1'-9"	W+0'-5"	W+2'-2"
Y1	#4	4	4	4	4	4	4			4'-4"
Y2	#4	4	4	4	4	4	4			7'-6"
Y3	#4	4	4	4	4	4	4			10'-8"
Y4	#4	8	8	8	8	8	8			14'-0"

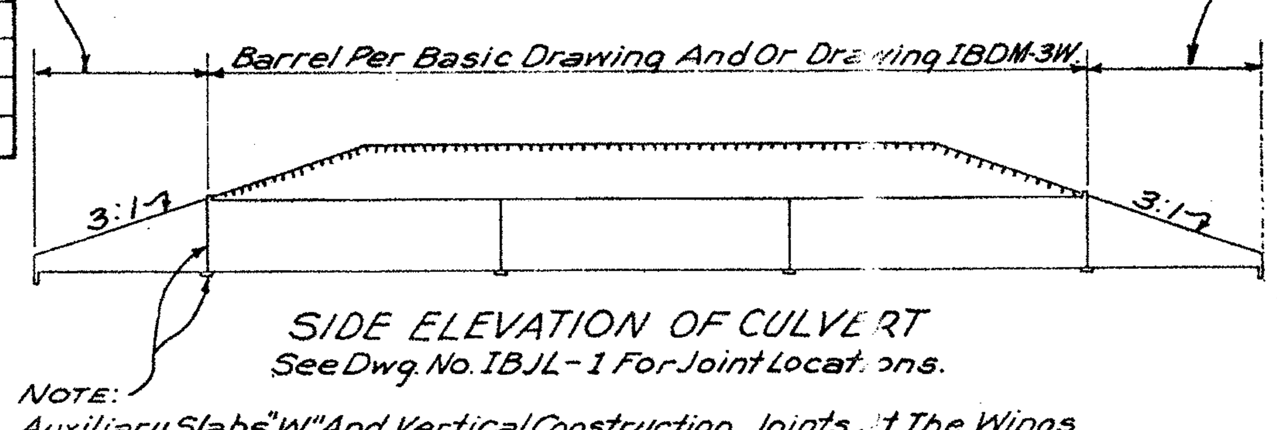
HEIGHT = 4 FT.

BAR LIST FOR WINGS & APRONS

BAR	SIZE	NO. REQUIRED SPAN 4'	5'	6'	8'	10'	12'	DIM. X	DIM. X1	LENGTH
T1	#4	2	2	2	2	2	2			2S+1'-4"
T2	#4	2	2	2	2	2	2			2S+2'-1"
T3	#4	2	2	2	2	2	2			2S+2'-10"
T4	#4	2	2	2	2	2	2			2S+3'-7"
T5	#4	2	2	2	2	2	2			2S+4'-4"
T6	#4	2	2	2	2	2	2			2S+5'-1"
T7	#4	2	2	2	2	2	2			2S+5'-10"
T8	#4	2	2	2	2	2	2			2S+6'-7"
T9	#4	2	2	2	2	2	2			2S+7'-4"
T10	#4	2	2	2	2	2	2			2S+8'-1"
T11	#4	2	2	2	2	2	2			2S+8'-10"
T12	#4	6	6	6	6	6	6			2S+9'-6"
U	#4	8	8	8	8	8	8			11'-11"
V1	#4	22	26	30	38	46	54	11'-4"	1'-8"	13'-0"
V2	#4	4	4	4	4	4	4	8'-0"	1'-8"	9'-8"
V3	#4	4	4	4	4	4	4	5'-3"	1'-8"	6'-11"
V4	#4	4	4	4	4	4	4	2'-6"	1'-8"	4'-2"
W1	#4	12	12	12	12	12	12	2'-6"	W+3'-9"	W+6'-3"
W2	#4	12	12	12	12	12	12	2'-3"	W+2'-11"	W+5'-2"
W3	#4	12	12	12	12	12	12	2'-0"	W+2'-0"	W+4'-0"
W4	#4	12	12	12	12	12	12	1'-9"	W+1'-1"	W+2'-10"
W5	#4	8	8	8	8	8	8	1'-7"	W+0'-4"	W+1'-11"
Y1	#4	4	4	4	4	4	4			3'-8"
Y2	#4	4	4	4	4	4	4			6'-11"
Y3	#4	4	4	4	4	4	4			10'-2"
Y4	#4	4	4	4	4	4	4			11'-11"

ADDITIONAL BAR LIST FOR WINGS & APRONS

Bar	Size	H=4 Ft. No.	H=4 Ft. Length	H=5 Ft. No.	H=5 Ft. Length	H=6 Ft. No.	H=6 Ft. Length	H=8 Ft. No.	H=8 Ft. Length	H=10 Ft. No.	H=10 Ft. Length	H=12 Ft. No.	H=12 Ft. Length
F	#4	8	12'-5"	8	14'-8"	8	18'-10"	8	24'-2"	8	27'-6"	8	31'-8"
Q	#5	20	3'-0"	24	3'-0"	28	3'-0"	72	3'-0"	72	3'-0"	88	3'-0"
QS	#4	4	3'-7"	4	4'-7"	4	5'-7"	4	7'-7"	4	9'-7"	4	11'-7"
R1	#4							8	W+6'-1"	8	W+7'-1"	8	W+8'-4"
R2	#4							12	W+4'-8"	8	W+6'-2"	8	W+7'-5"
R3	#4							12	W+3'-3"	12	W+4'-9"	12	W+6'-0"
R4	#4							12	W+1'-10"	12	W+3'-4"	12	W+4'-7"
R5	#4							12	W+5"	12	W+1'-11"	12	W+3'-2"
R6	#4									12	W+6"	12	W+1'-9"
R7	#4											12	W+4"



SIDE ELEVATION OF CULVERT
See Dwg. No. IBJL-1 For Joint Locations.

NOTE:
Auxiliary Slabs "W" And Vertical Construction Joints At The Wings Are Required Only Where Called For By The Basic Drawing And Auxiliary Slabs "W" Are Not To Be Used For Culvert Heights Of Less Than 8 Feet.

GENERAL NOTES:

This Drawing Shows The General Details Necessary To Modify A Double Cell Culvert For Wings With 3:1 Slope.

All Governing Dimensions, Reinforcing Details And General Requirements Of Basic Culvert Drawing Shall Apply Except As Specifically Modified By This Drawing And Or Drawing IBDM-3W.

Barrel Details On Basic Culvert Drawing Shall Be Used With Cover From 2'-6" To The Maximum Shown On Basic Culvert Drawing. With Cover Less Than 2'-6" And More Than Maximum Shown On Basic Culvert Drawing, Use Drawing IBDM-3W For Barrel Details.

Quantities Shown On This Sheet Are For Culverts With Basic Culvert Barrels And Wings With 3:1 Slope Per This Drawing. Quantities Shown On Drawing IBDM-3W Are For Culverts With Barrels Per Drawing IBDM-3W And Wings With 3:1 Slope Per This Drawing And Drawing IBDM-3W. Quantities Not Shown On This Sheet And Or Drawing IBDM-3W Are Same As Shown On Basic Culvert Drawing.

Quantities Shown On This Sheet Are For Complete Culvert Of The Length Noted And Include Barrel, Parapets, Wings, Aprons, Cut-Off Walls, Auxiliary Slabs "W" Where Required And Two Auxiliary Slabs "J."

Quantities Shown On This Sheet Will Be Used As A Basis For Final Payment For Culverts Constructed In Accordance With This Drawing And Basic Culvert Drawing.

BY	REVISION	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

WINGS WITH 3:1 SLOPE FOR BASIC CULVERT DRAWING DOUBLE CELL

HEIGHTS 4–12 FT.
TOTAL SPANS 8–40 FT.

WORKING NUMBER SD-IWD-3A

SHEET NUMBER

FILENAME:________

DESIGN TEAM______ CHECKED______ DATE______

COUNTY:

PROJECT NO.:

DESIGN TEAM:

FILENAME: