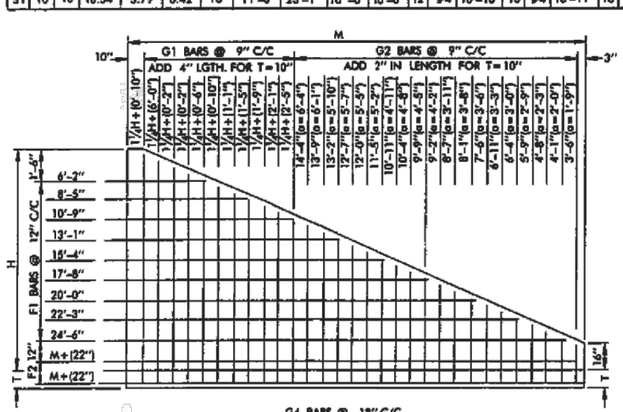
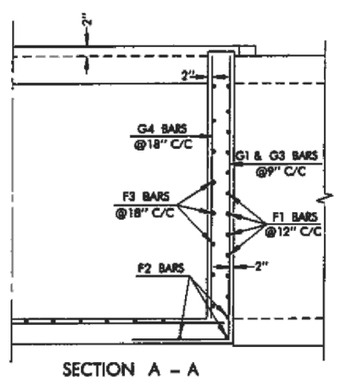
DESCRIPTION	REVISIONS	DATE

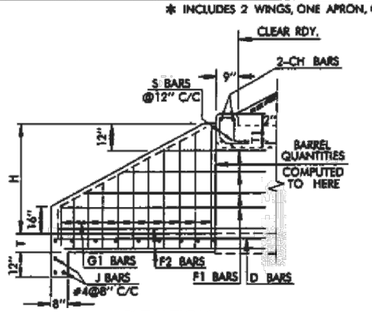
DESIGN NO.	CLEAR SPAN (ft.)	CLEAR HEIGHT (ft.)	X (ft.)	Y (ft.)	WING DIMENSIONS d (ft.)	T	H	M	N	R	REINFORCING BARS: APRON "D" BARS NO	SIZE	LGTH.	APRON "E" BARS NO	SIZE	AVER. LENGTH
1	2		3.33								4					5'- 5"
2	3	2	3.83		0.08	8"	2'-8"	4'-8"	4'-0"		5	#4	4'-10"	4	#4	6'- 5"
3	4		4.33								6					7'- 5"
4	5		4.83								7					8'- 5"
5	3		4.96								5					7'- 7"
6	4		5.46								6					8'- 7"
7	5	3	5.96		0.13	8"	3'-8"	6'-11"	6'-0"		7	#4	6'-10"	6	#4	9'- 7"
8	6		6.46								8					10'- 7"
9	8		7.46								10					12'- 7"
10	4		6.63								6					9'- 9"
11	5		7.13								7					10'- 9"
12	6	4	7.63		0.17	8"	4'-8"	9'-3"	8'-0"		8	#4	8'-10"	8	#4	11'- 9"
13	8		8.63								10					13'- 9"
14	10		9.63								12					15'- 9"
15	5		8.25								7					11'-11"
16	6		8.75								8					12'-11"
17	8	5	9.75		0.21	8"	5'-10"	11'-6"	10'-0"		10	#4	10'-10"	10	#4	14'-11"
18	10		10.75								12					16'-11"
19	5		9.42	5.32							7					11'-11"
20	6		9.92	5.82							8					12'-11"
21	8	6	10.92	6.82	0.25	8"	6'-10"	13'-10"	10'-0"	2'-0"	10	#4	10'-10"	10	#4	14'-11"
22	10		11.92	7.82							12					16'-11"
23	5		10.58	4.48							7					11'-11"
24	6		11.08	4.98							8					12'-11"
25	8	7	12.08	5.98	0.29	10"	7'-10"	16'-2"	10'-0"	4'-0"	10	#4	10'-10"	10	#4	14'-11"
26	10		13.08	6.98							12					16'-11"
27	6		12.25	3.90							8					12'-11"
28	8	8	13.25	4.90	0.34	10"	8'-10"	18'-6"	10'-0"	6'-0"	10	#4	10'-10"	10	#4	14'-11"
29	10		14.25	5.90							12					16'-11"
30	10	9	15.36	4.87	0.38	10"	10'-0"	20'-9"	10'-0"	8'-0"	12	#4	10'-10"	10	#4	16'-11"
31	10	10	16.54	3.79	0.42	10"	11'-0"	23'-1"	10'-0"	10'-0"	12	#4	10'-10"	10	#4	16'-11"

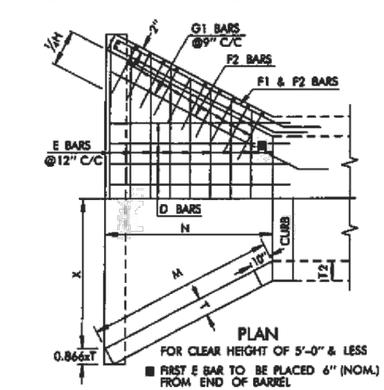
TWO WINGS: "F1" BARS NO	SIZE	AVER. LENGTH	"F2" BARS NO	SIZE	LGTH	"F3" BARS NO	SIZE	AVER. LENGTH	"F4" BARS NO	SIZE	LGTH	"G1" BARS @ #4 NO	AVER. LENGTH	"G2" BARS @ #4 AVER. LENGTH	"G3" BARS NO	SIZE	h	AVER. LENGTH	"G4" BARS @ #4 NO	AVER. LENGTH	ONE CURB "CH" BARS @ #4 NO	LGTH	"S" BARS @ #4 NO	MIN. LENGTH	* TOTAL QUANT. ONE HEADWALL CONC. CU.YD.	STEEL LBS.	ADD'L QUANT. CURTAIN WALL CONC. C.Y./V.F.
																					3'- 8"	5	2'- 1"	1.30	126	0.29
2	#4	6'-0"	6	#4	6'-6"	2	#4	6'-0"	2	#4	6'-0"	12	3'-7"						6	2'-0"	4'- 8"	6	2'- 1"	1.43	135	0.33
																					5'- 8"	7	2'- 3"	1.56	144	0.36
																					6'- 8"	8	2'- 5"	1.68	154	0.40
																					4'- 8"	6	2'- 1"	2.44	206	0.41
																					5'- 8"	7	2'- 3"	2.59	218	0.45
4	#4	6'-1"	6	#4	8'-9"	2	#4	6'-1"	2	#4	8'-3"	18	4'-4"						10	2'-4"	6'- 8"	8	2'- 5"	2.76	230	0.46
																					7'- 8"	9	2'- 7"	2.94	243	0.52
																					9'- 8"	11	2'-11"	3.30	269	0.60
																					5'- 8"	7	2'- 2"	3.87	321	0.53
																					6'- 8"	8	2'- 4"	4.10	345	0.57
6	#4	7'-8"	6	#4	11'-1"	4	#4	7'-10"	2	#4	10'-7"	24	5'-1"						12	3'-0"	7'- 8"	9	2'- 6"	4.32	351	0.61
																					9'- 8"	11	2'- 9"	4.79	381	0.68
																					11'- 8"	13	3'- 0"	5.27	412	0.76
																					6'-10"	8	2'- 5"	5.63	464	0.65
																					7'-10"	9	2'- 6"	5.90	481	0.69
8	#4	8'-11"	6	#4	13'-4"	6	#4	9'-3"	2	#4	12'-10"	30	5'-11"						16	3'-6"	7'-10"	11	2'- 9"	6.50	517	0.76
																					11'-10"	13	3'- 0"	7.02	553	0.84
																					7'- 0"	8	2'- 4"	6.78	571	0.74
10	#4	10'-1"	8	#4	15'-8"	6	#4	9'-3"	2	#4	15'-2"	26	7'-4"	8	4'-5"				18	4'-2"	8'- 0"	9	2'- 5"	7.06	588	0.78
																					10'- 0"	11	2'- 9"	7.62	624	0.85
																					12'- 0"	13	2'-11"	8.20	660	0.93
																					7'- 2"	8	2'- 4"	10.14	713	0.83
12	#4	11'-6"	8	#4	18'-0"	8	#4	11'-0"	2	#4	17'-6"	26	9'-1"	16	5'-6"				22	4'-6"	8'- 2"	9	2'- 5"	10.49	723	0.86
																					10'- 2"	11	2'- 9"	11.17	759	0.94
																					12'- 2"	13	2'-11"	11.85	795	1.01
																					8'- 4"	9	2'- 4"	12.48	920	0.95
14	#4	12'-7"	10	#4	20'-4"	10	#4	12'-9"	2	#4	19'-10"	24	10'-6"	24	6'-8"	12	#4	2'-0"	24	5'-2"	10'- 4"	11	2'- 8"	13.16	957	1.02
																					12'- 4"	13	2'-10"	13.85	993	1.10
16	#4	14'-2"	10	#4	22'-7"	10	#4	12'-7"	2	#4	22'-1"	22	12'-0"	32	7'-10"	18	#4	3'-0"	28	5'-7"	12'- 6"	14	2'-10"	16.07	1192	1.18
18	#4	15'-4"	12	#6	24'-11"	12	#6	14'-3"	2	#6	24'-5"	20	13'-5"	40	8'-11"	24	#5	4'-3"	30	6'-3"	12'- 8"	14	2'-10"	18.61	1530	1.27

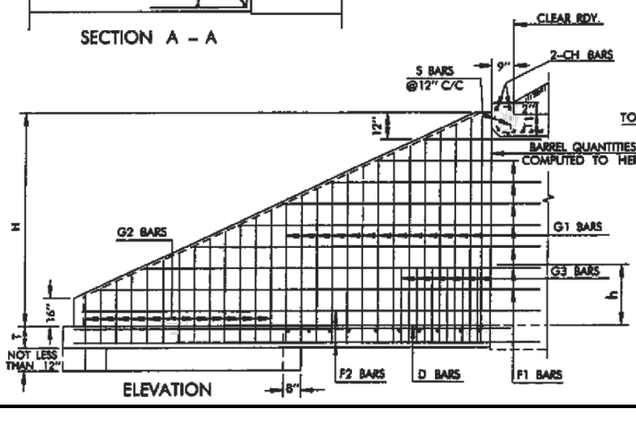
* INCLUDES 2 WINGS, ONE APRON, ONE CURB AND STD. DEPTH CURTAIN WALL

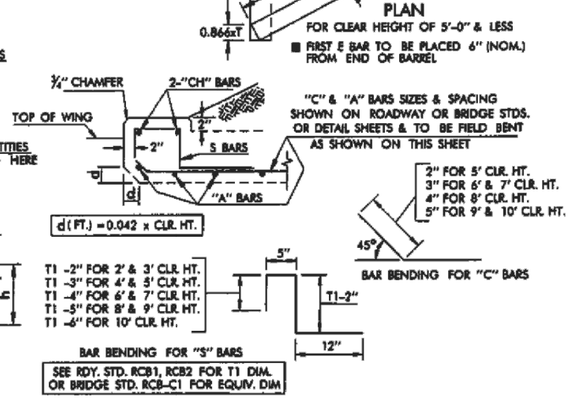








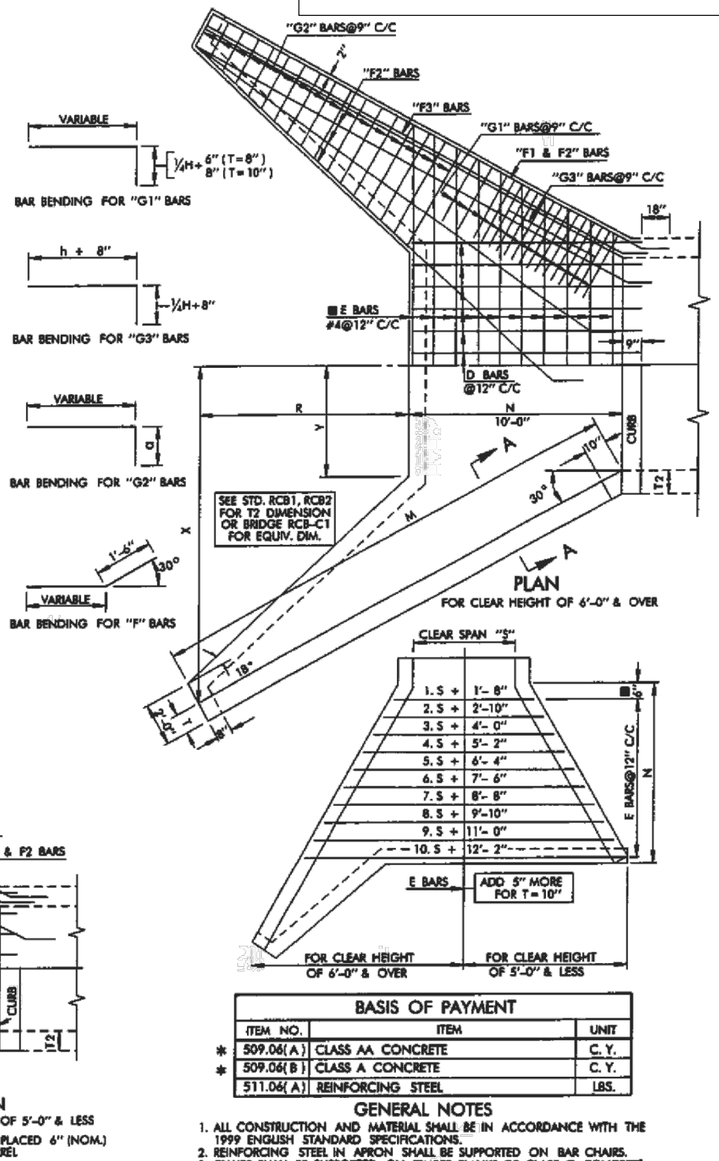




"C" & "A" BARS SIZES & SPACING SHOWN ON ROADWAY OR BRIDGE STDS. OR DETAIL SHEETS & TO BE FIELD BENT AS SHOWN ON THIS SHEET

2" FOR 5' CLR. HT.
3" FOR 6' & 7' CLR. HT.
4" FOR 8' CLR. HT.
5" FOR 9' & 10' CLR. HT.

BAR BENDING FOR "C" BARS



BASIS OF PAYMENT

	ITEM NO.	ITEM	UNIT
*	509.06(A)	CLASS AA CONCRETE	C. Y.
*	509.06(B)	CLASS A CONCRETE	C. Y.
	511.06(A)	REINFORCING STEEL	LBS.

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE 1999 ENGLISH STANDARD SPECIFICATIONS.
2. REINFORCING STEEL IN APRON SHALL BE SUPPORTED ON BAR CHAIRS.
3. CHAIRS SHALL BE SUPPORTED ON TIMBER PLANKS OR CLASS C CONCRETE STRIPS SPACED AT 4'-0" CENTERS.
4. THE TOP OF CHAIR SUPPORTS, SHALL BE AT THE ELEVATION OF THE BOTTOM OF FOOTING. REINFORCING STEEL IN THE WINGS SHALL BE HELD IN PLACE BY METAL CHAIRS. MAXIMUM SPACING OF CHAIRS SHALL BE 4'-0" CENTERS.
5. COST OF METAL CHAIRS, WOOD PLANK OR CONCRETE STRIPS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
6. DETAILS OF SINGLE CELL BARRELS CORRESPONDING TO THE HEADWALLS SHOWN ON THIS STANDARD SHALL BE INCLUDED IN THE PLANS.
7. ALL REINFORCING STEEL SHALL HAVE 2" MINIMUM CLEARANCE FROM ALL ADJACENT CONCRETE SURFACES.
8. * WINGWALL, CURB AND APRON CONSTRUCTION SHALL CONSIST OF THE SAME CLASS OF CONCRETE USED FOR THE REINFORCED CONCRETE BOX.

EW-187 STEPHENS COUNTY

DETAIL SHEET
RCB2H-1-02E

JOB PIECE NO. 27847(04) SHEET NO. R042