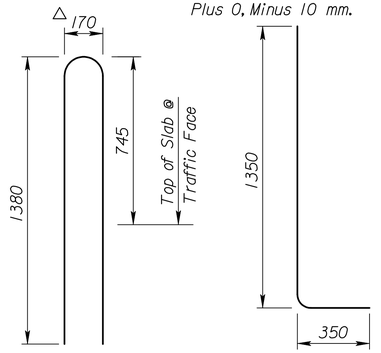
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54-87 K-6657-01	2002	498	1122

BILL OF REINFORCING STEEL Grade 420

		Straight Bars				Bent Bars			
		Mark	Size	Number	Length	Mark	Size	Number	Length
Superstructure (Epoxy)	Abutment Superstructure	AB1	25	8	11 900	AB2	13	68	3290
		AB3	13	2	11 900	AB6	13	82	1505
		AB4	19	20	1440	AB9	16	30	1970
		AB5	19	30	1830	AB12	16	4	2580
		AB7	19	24	1500	AB13	16	8	1410
		AB8	19	10	11 900	AS1	16	82	1130
		AB10	19	12	560	AW1	19	36	2460
		AB11	19	8	370				
		AW2	13	16	1040				
		AW3	13	120	1340				
		AW4	16	48	4650				
	Substr.	AF1	25	8	11 900	AF4	13	58	4250
		AF2	22	8	11 900	AF5	13	52	2390
		AF3	19	12	11 900	AF8	19	20	1790
		AF6	13	28	950	AF9	13	16	Var.
		AF7	16	40	1500	AF10	16	20	2320
	Diaphragm, Slab and Rail	C2	13	8	6150	C1	13	24	980
		D2	19	96	1200	C3	13	18	1020
		D3	13	120	1830	D1	13	128	3870
		D4	19	80	1440	D6	13	24	2280
		D5	13	16	640	D7	16	8	2580
		R11	19	12	2850	D8	16	16	1410
		R12	19	432	2900	R1	22	68	2830
		R13	19	12	2700	R2	22	4	1700
		S1	16	86	15 420	R3	22	560	2340
		S2	16	215	15 950	R4	13	560	1070
		S3	16	82	11 650	R5	16	8	1990
		S4	16	447	11 400	R6	16	8	3250
		T1	16	417	11 900	R7	13	4	3240
		T2	16	521	11 900	R8	10	1002	1340
						R9	10	560	1 340
						R10	10	148	1 360
						S5	16	80	5800
						S6	16	82	4500
						SP1	16	350	1370
						L1	16	8	1920
						L2	16	4	1700
						L3	13	4	2030
Substructure (Non-Epoxy)	Pier Beam	PB2	29	8	10 690	PB1	16	256	2830
		PB3	29	8	11 460	PB8	16	16	1770
		PB4	19	24	10 690	PB9	19	40	2350
		PB5	29	8	11 660	PB10	16	8	2760
		PB6	29	8	11 460	PB11	16	16	1980
		PB7	29	8	10 690	PB13	16	8	2560
		PB12	29	8	11 660				
		PB14	19	256	1000				
	Columns-Footings	PF1	22	232	1680				
		PF2	22	44	2110	PF3	29	120	2830
		PC1	29	30	5420	PS1	9.5 Dia.	3	4350
		PC2	29	30	6220	PS2	9.5 Dia.	3	5150
		PC3	29	30	5820	PS3	9.5 Dia.	3	4750
		PC4	29	30	5020	PS4	9.5 Dia.	3	3950
		W1	16	156	4200				
		W2	16	56	2820				
		W3	16	56	3620				
		W4	16	56	3220				
		W5	16	56	2420				
		W6	16	156	1030				
		W7	16	78	2040				

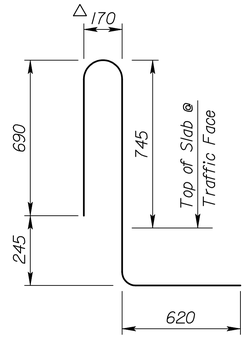
* See Bending Diagram

△ Nonstandard hook
Plus 0, Minus 10 mm.



R1

R2



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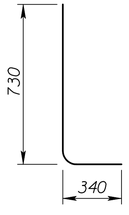

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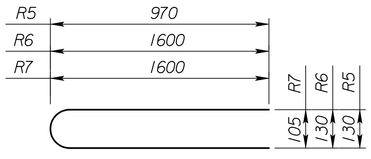
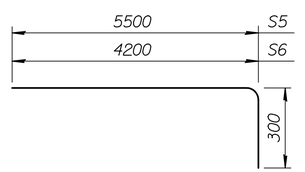
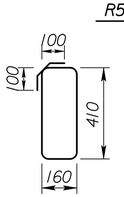


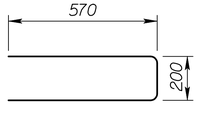
R5, R6 & R7



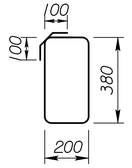
S5,S6



R8



R9



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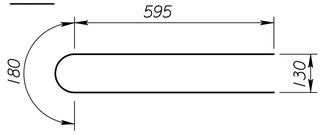
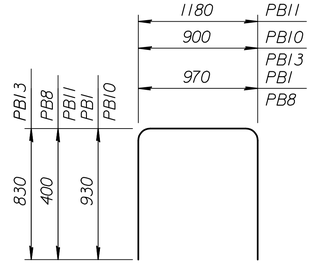
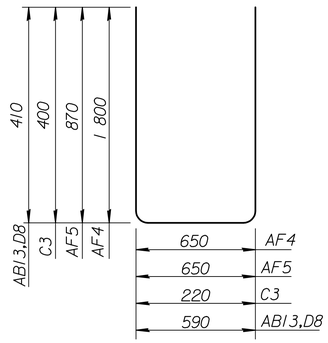
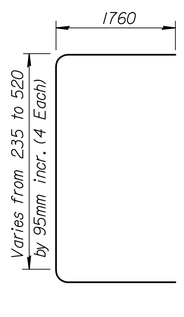




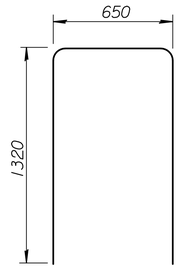
PB1, PB8, PB10, PB11, PB13



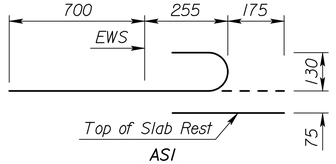
AB13,AF4, AF5, C3,D8



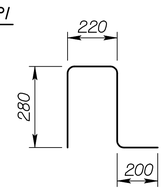
AF9

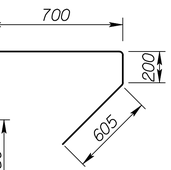


AB2

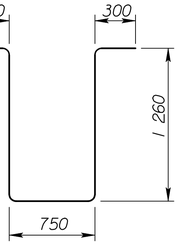


AS1

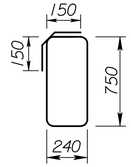




C1

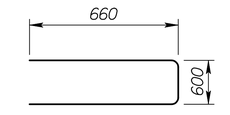


D1

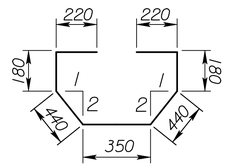


D6

AB6



L1



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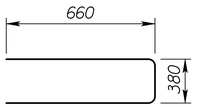
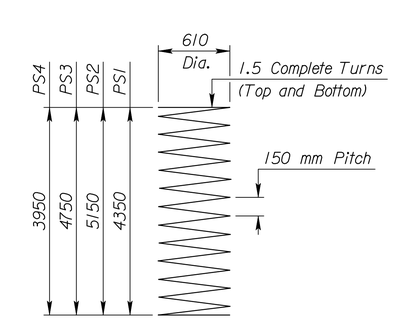


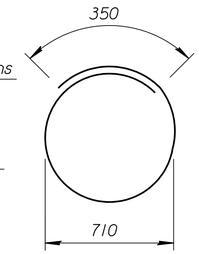
L2



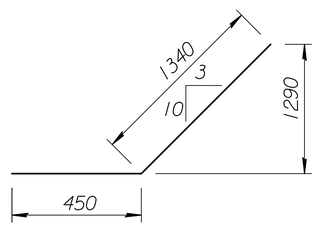
PS1, PS2, PS3, PS4

(9.5 mm dia. smooth bar)

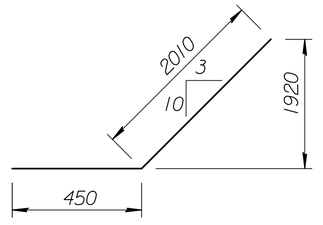
Spiral reinforcing shall meet the requirements of ASTM A615M-96 Grade (420 or 300) or ASTM A82M.
Spiral Spacer Bars:
1) Are included in the mass of reinforcing steel.
2) Minimum section modulus = 130 mm³
3) 3 required per spiral.



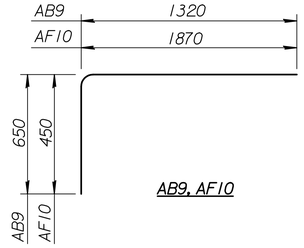
AB12, D7



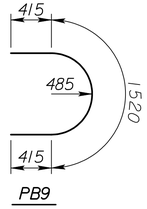
AF8



AW1



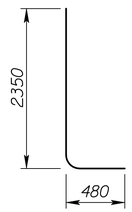
AB9, AF10



PB9

BENDING DIAGRAMS

(All dimensions are out to out of bars.)



PF3

RECORD DRAWING

NO.	DATE	REVISIONS	BY	APP'D
2				
1				

CITY OF WICHITA

Br. No. 54-87-19.32(495)F.W.B. Sta. 16+016.230

BILL OF REINFORCING STEEL AND BENDING DIAGRAMS

Sedgwick County

SHEET NO. OF	SCALE	APP'D	
DESIGNED DRT	DETAILED DRT	QUANTITIES	CADD GFK
DESIGN CK. SMS	DETAIL CK.	QUAN. CK.	CADD CK.

Plotted By : gdr
Plot File : I:/1997/97362/As-Builts/dgn's/Vol_3/Sh 498-KDOT_STD-reinfstlfwb.dgn Last Rev. 9-4-07 By: gdr
Plot Date : Sept. 07
Std. Base File : /urs1/sitslab/br60lbsi.dgn