STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54–87 K–8258–01	2007	219	556

BILL OF REINFORCING STEEL—SUPERSTRUCTURE

Deck, Rail & Diaphragms

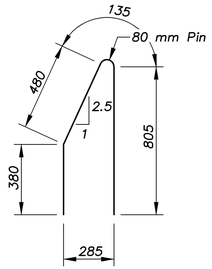
STRAIGHT BARS				BENT BARS			
MARK	SIZE	NO.	LENGTH	MARK	SIZE	NO.	LENGTH
AD1	25	10	9870	TS3	19	138	4610
AD2	25	10	8350				
PD1	25	36	1400	AD7	16	6	2380
				AD8	16	4	1940
AD3	19	8	9050	AD9	16	6	1760
BS1	19	183	18 170	AD10	16	4	1580
MD1	19	32	1400	AD11	16	208	3040
PD2	19	16	1300	AD12	16	18	2240
R1	19	4	13 820	AS1	16	82	2210
TS1	19	210	18 170	AS2	16	36	1570
TS2	19	69	14 840	AS3	16	118	1430
				R2	16	6	1800
AD4	16	20	9040	R3	16	170	1720
AD5	16	48	1740	R4	16	176	1980
AD6	16	32	1300				
AS4	16	8	9040	MD3	13	80	1680
TS4	16	409	12 070	PD7	13	42	4520
TS5	16	409	6170	PD8	13	12	1670
BS2	13	408	9910				
BS3	13	408	8180				
MD2	13	32	1740				
PD3	13	4	8720				
PD4	13	48	1740				
PD5	13	4	1450				
PD6	13	4	800				
R7	13	24	13 650				

BILL OF REINFORCING STEEL—SUBSTRUCTURE

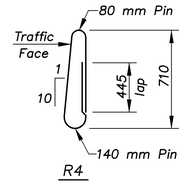
	STRAIGHT BARS				BENT BARS			
	MARK	SIZE	NO.	LENGTH	MARK	SIZE	NO.	LENGTH
Abut. No. 1 Beam	AB3	25	4	10 550	AB1	25	5	11 070
	AB4	25	4	8060	AB2	25	5	8580
	AB5	19	104	920	AB7	16	60	2870
					AB8	16	62	2700
	AB6	16	14	9000				
Abut. No. 2 Beam	AB3	25	4	10 550	AB1	25	5	11 070
	AB4	25	4	8060	AB2	25	5	8580
	AB5	19	104	920	AB7	16	60	2870
					AB8	16	62	2700
	AB6	16	14	9000				
Pier Beam, Columns & Footings	PB3	25	6	10 270	PB1	25	7	10 770
	PB4	25	6	7970	PB2	25	7	8450
	PC1	25	56	6540	PC2	25	56	2010
	PB5	19	12	8920	PB7	19	4	2500
	PB6	19	84	1280				
	PF1	19	128	2300	PB8	16	124	2790
					PB9	16	96	2660
					PB10	16	120	2570
					PB11	16	2	2600
					PS1	10ø	4	—

BENDING DIAGRAMS

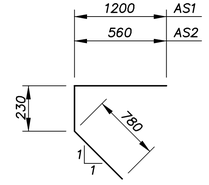
NOTE: All dimensions are out to out of bars.



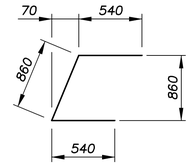
R2



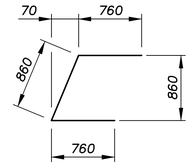
R4



AS1 & AS2



AD8



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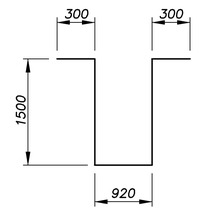
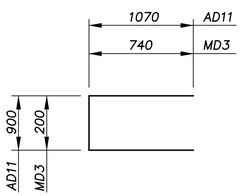
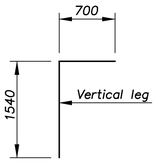


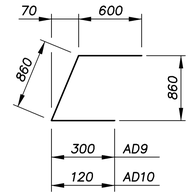
PD7



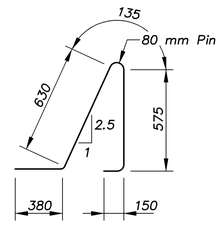
MD3 & AD11



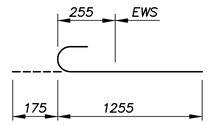
AD12



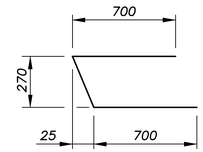
AD9 & AD10



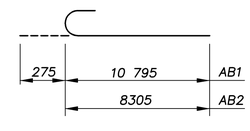
R3



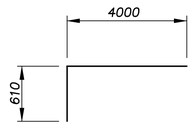
AS3



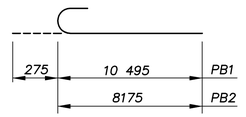
PD8



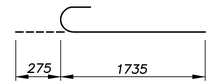
AB1 & AB2



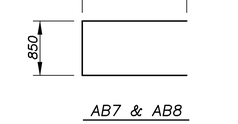
TS3



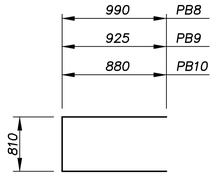
PB1 & PB2



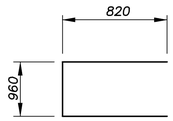
PC2



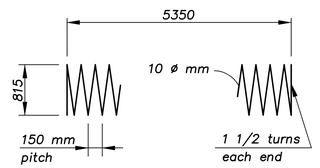
AB7 & AB8



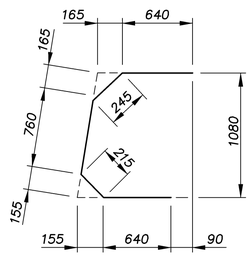
PB8, PB9 & PB10



PB11



NOTE: Weight of spirals are included in the weight of reinforcing and includes the weight of 4 spacer channels @ 1.100 kg. per meter (each) per spiral. The spiral bars shall meet the requirements of either ASTM A–615M (Gr. 300 or Gr. 420) or A–82M. Minimum section modulus of spacer channels is 131 cu. mm.



PB7

PS1

KANSAS DEPARTMENT OF TRANSPORTATION

BR. NO. 54–87–30.81(701) E.B. STA. 3+378.725

BILL OF REINFORCING STEEL

KELLOGG AVENUE OVER ARMOUR ROAD

Proj. No. 54–87 K–8258–01 SEDGWICK COUNTY

CFS
Cook, Flatt & Strobel
ENGINEERS, P.A.

DESIGNED	R.S.C.	SCALE	Varies
DETAILED	T.R.G.	DATE	
QUANTITIES	T.R.G.	SHEET	39 OF 39

1:100

ARMOUR/REINF