STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54–87 K–8258–08	2005	125	223

BILL OF REINFORCING STEEL–SUPERSTRUCTURE

Deck, Barrier Rail & Diaphragms

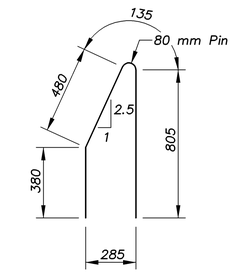
STRAIGHT BARS				BENT BARS			
MARK	SIZE	NO.	LENGTH	MARK	SIZE	NO.	LENGTH
AD1	25	10	11 330	TS3	19	136	5060
AD2	25	10	10 870				
PD1	25	80	1400	AD7	16	232	3040
				AD8	16	20	2240
MD1	22	32	920	AD9	16	6	2410
				AD10	16	4	1970
AD3	19	8	10 640	AD11	16	6	1780
BS1	19	236	15 800	AD12	16	4	1560
MD2	19	36	1520	AS1	16	98	2210
PD2	19	36	1420	AS2	16	40	1610
R1	19	4	15 800	AS3	16	138	1430
TS1	19	276	15 800	R2	16	8	1800
TS2	19	136	11 480	R3	16	197	1870
				R4	16	205	1980
AD4	16	20	10 560				
AD5	16	54	1860	MD4	13	108	1680
AD6	16	36	1420	PD7	13	112	4520
AS4	16	8	10 560	PD8	13	24	1670
BS2	16	393	11 980				
BS3	16	393	9130				
TS4	16	394	12 900				
TS5	16	394	8210				
MD3	13	36	1860				
PD3	13	8	10 230				
PD4	13	108	1860				
PD5	13	8	1450				
PD6	13	8	800				
R7	13	30	12 610				

BILL OF REINFORCING STEEL–SUBSTRUCTURE

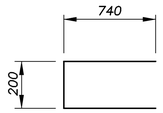
	STRAIGHT BARS				BENT BARS			
	MARK	SIZE	NO.	LENGTH	MARK	SIZE	NO.	LENGTH
Abut. No. 1 Beam	AB3	25	4	11 090	AB1	25	5	11 610
	AB4	25	4	10 630	AB2	25	5	11 150
	AB5	19	116	920	AB8	16	74	2900
					AB9	16	62	2740
	AB6	16	12	10 560				
	AB7	16	2	9190				
Abut. No. 2 Beam	AB3	25	4	11 090	AB1	25	5	11 610
	AB4	25	4	10 630	AB2	25	5	11 150
	AB5	19	116	920	AB8	16	74	2900
					AB9	16	62	2740
	AB6	16	12	10 560				
	AB7	16	2	9190				
Pier No. 1 Beam, Columns & Footings	PB3	25	6	12 040	PB1	25	8	12 300
	PB4	25	6	9250	PB2	25	8	9950
	PC1	25	70	6340	PC2	25	70	2010
	PB5	19	12	10 360	PB7	19	4	2500
	PB6	19	112	1280				
	PF1	19	160	2300	PB8	16	100	2860
					PB9	16	152	2730
					PB10	16	104	2560
					PB11	16	2	2520
					PS1	10ø	5	—
Pier No. 2 Beam, Columns & Footings	PB3	25	6	12 040	PB1	25	8	12 300
	PB4	25	6	9250	PB2	25	8	9950
	PC1	25	70	6340	PC2	25	70	2010
	PB5	19	12	10 360	PB7	19	4	2500
	PB6	19	112	1280				
	PF1	19	160	2300	PB8	16	100	2860
					PB9	16	152	2730
					PB10	16	104	2560
					PB11	16	2	2520
					PS1	10ø	5	—

BENDING DIAGRAMS

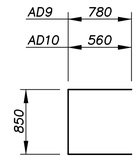
NOTE: All dimensions are out to out of bars.



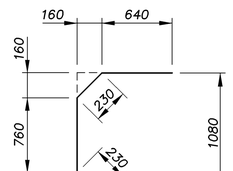
R2



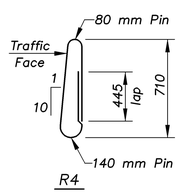
MD4



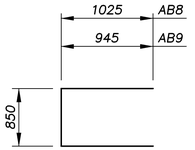
AD9 & AD10



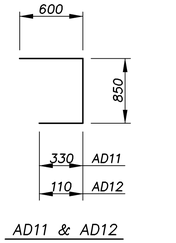
PB7



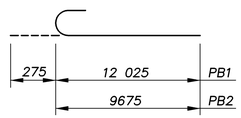
R4



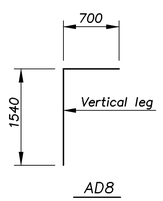
AB8 & AB9



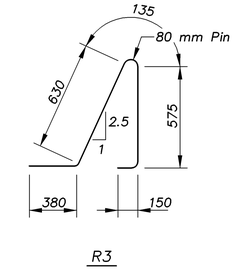
AD11 & AD12



PB1 & PB2

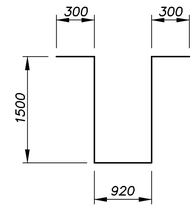


AD8

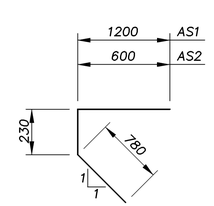


R3

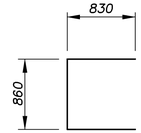
AD7



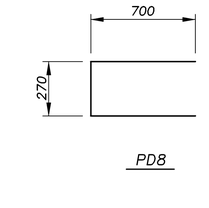
PD7



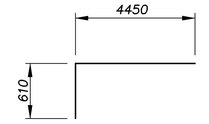
AS1 & AS2



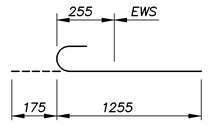
PB11



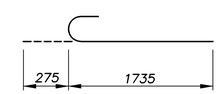
PD8



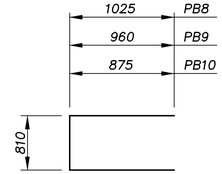
TS3



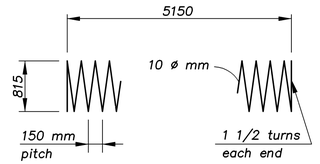
AS3



PC2



PB8, PB9 & PB10



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.

PS1

EASTERN/REINF 1:100

KANSAS DEPARTMENT OF TRANSPORTATION

BR. NO. 54–87–31.56(705) E.B. STA. 4+575.138

BILL OF REINFORCING STEEL

KELLOGG AVENUE OVER EASTERN

Proj. No. 54–87 K–8258–08 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	47 OF 47