

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54-87 K-8258-01	2007	218	556

BILL OF REINFORCING STEEL—SUPERSTRUCTURE

STRAIGHT BARS				BENT BARS			
MARK	SIZE	NO.	LENGTH	MARK	SIZE	NO.	LENGTH
AD1	25	10	11 220	TS3	19	144	4610
AD2	25	10	8660				
PD1	25	36	1400	AD7	16	6	2380
				AD8	16	4	1940
AD3	19	8	9410	AD9	16	6	1760
BS1	19	183	18 170	AD10	16	4	1580
MD1	19	32	1490	AD11	16	208	3040
PD2	19	16	1390	AD12	16	18	2240
R1	19	12	13 820	AS1	16	86	2210
TS1	19	219	18 170	AS2	16	36	1570
TS2	19	72	14 840	AS3	16	122	1430
				R2	16	6	1800
AD4	16	20	9400	R3	16	170	1720
AD5	16	48	1830	R4	16	176	1980
AD6	16	32	1390	R5	16	177	2220
AS4	16	8	9400	R6	16	177	2540
TS4	16	409	12 500				
TS5	16	409	6460	MD3	13	96	1680
				PD7	13	50	4520
BS2	13	408	10 240	PD8	13	12	1670
BS3	13	408	8570				
MD2	13	32	1830				
PD3	13	4	9050				
PD4	13	48	1830				
PD5	13	4	1450				
PD6	13	4	800				
R7	13	56	13 650				

Deck, Rail & Diaphragms

BILL OF REINFORCING STEEL—SUBSTRUCTURE

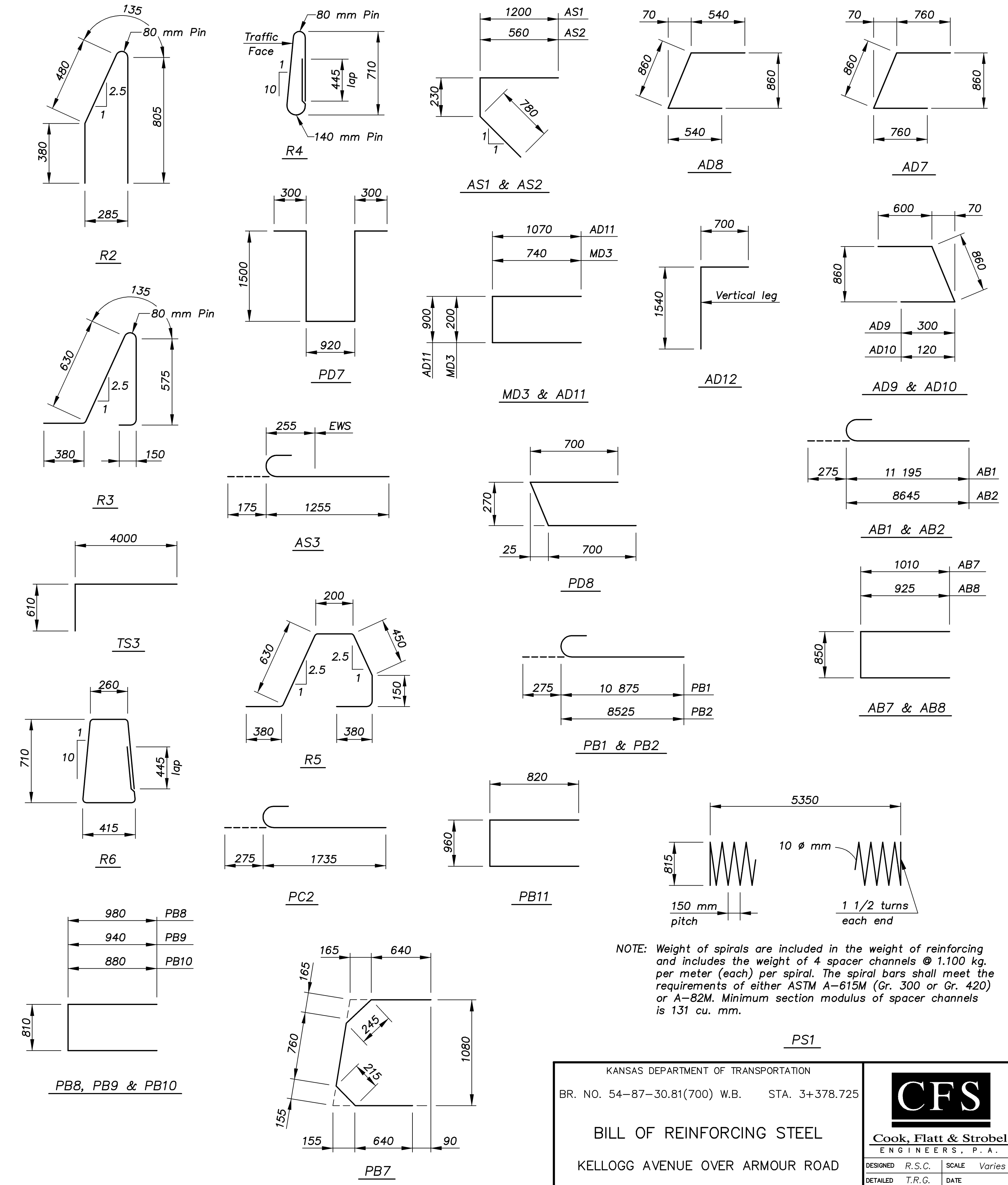
STRAIGHT BARS				BENT BARS			
MARK	SIZE	NO.	LENGTH	MARK	SIZE	NO.	LENGTH
AB3	25	4	10 950	AB1	25	5	11 470
AB4	25	4	8400	AB2	25	5	8920
AB5	19	104	920	AB7	16	60	2870
AB6	16	14	9380	AB8	16	62	2700
AB3	25	4	10 950	AB1	25	5	11 470
AB4	25	4	8400	AB2	25	5	8920
AB5	19	104	920	AB7	16	60	2870
AB6	16	14	9380	AB8	16	62	2700
PB3	25	6	10 660	PB1	25	7	11 150
PB4	25	6	8300	PB2	25	7	8800
PC1	25	56	6540	PC2	25	56	2010
PB5	19	12	9280	PB7	19	4	2500
PB6	19	100	1280	PB8	16	132	2770
				PB9	16	104	2690
				PB10	16	128	2570
				PB11	16	2	2600
				PS1	10 ϕ	4	—

Abut. No. 1 Beam

Abut. No. 2 Beam

Pier Beam, Columns & Footings

BENDING DIAGRAMS
NOTE: All dimensions are out to out of bars.



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.

1:100
ARMOUR/REINF

KANSAS DEPARTMENT OF TRANSPORTATION		BR. NO. 54-87-30.81(700) W.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 38 OF 39