

ORIG. FROM: BR NO.	PROJ. NO.	CO.
DESIGN	DATE	CHECK
DETAIL	DATE	
QUANTITIES	DATE	DATE
TRACING	DATE	DATE
RETRACTED	DATE	DATE

SECTION AND ELEVATION

Top of Hubguard
Elev. 59.915

FL Elev. 58.057

Normal Pool 58.366

62 bars @
290 mm ctrs.

230

230

915

240

Const. Jt.
(Optional)

Const. Jt.

W3 bars
@ 455 mm ctrs.

Project

200

1800

2.00%

125

S2 bars @
250 mm ctrs.

W1 bars

W2 bars

2 Spa. @
455 mm

300

FL Elev. 58.120

W1 bars
(Inside Face)

230

W2 bars
(Inside Face)

95

Figure 10.10 illustrates the typical reinforcement detail for a slab with a rectangular opening. The diagram shows a slab with a central rectangular opening. The reinforcement bars are labeled as follows:

- S4 bars**: Top longitudinal bars.
- S1 bars**: Bottom longitudinal bars.
- W1 bars**: Top transverse bars.
- W3 bars**: Bottom transverse bars.
- F4 bars**: Top longitudinal bars (bottom face).
- F1 bars**: Bottom longitudinal bars (bottom face).

Key dimensions and details shown in the diagram include:

- Overall width: 2440 mm.
- Opening width: 1500 mm.
- Slab thickness: 230 mm.
- Clearance from opening edge: 40 mm.
- Offset from corner: 150 mm.
- Bar spacing: 6 Equal Spaces (405 mm ±) (F4) (Each Face).
- Optional Const. Jt. (Constant Joint).

Strike Line

Length Left = 10.060

Length Right = 10.900

75

Typ. Section Reinforcing

150

F4 bars (See Typical Section for Spa.)

Typ. Section Reinforcing

185

F1 bars

S1 bars

S2 bars

50±

Typ. Section Reinforcing

S4 bars (See Typical Section for Spa.)

Strike Line

75

150

Reinforcing in Top of Floor

Reinforcing in Bottom of Slab

Reinforcing in Top of Floor

Reinforcing in Bottom of Slab

See Reinforced Conc. Box Details for additional reinforcement

PLAN

Diagram illustrating a rectangular area divided into four quadrants. The dimensions are labeled as follows:

- Top-left quadrant: $S2 \text{ \& } G2$
- Top-right quadrant: 750
- Bottom-left quadrant: 450
- Bottom-right quadrant: 750

Minimum Splice Lengths	
#12	405
#15	510
#20	610

* Bid as 2.4m x 0.9m RCB (L.S.)

NO.	DATE	REVISIONS					BY	APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION Sta. 0+864 SINGLE 2.4 m x 0.9 m RCB BR1.8.3 SI SEDGWICK CO.									
FHWA APPROVAL						APP'D			
DESIGNED	MDK	DETAILED				QUANTITIES	MDK	TRACED	
DESIGN CK.	MDK	DETAIL CK.				QUAN.CK.		TRACE CK.	