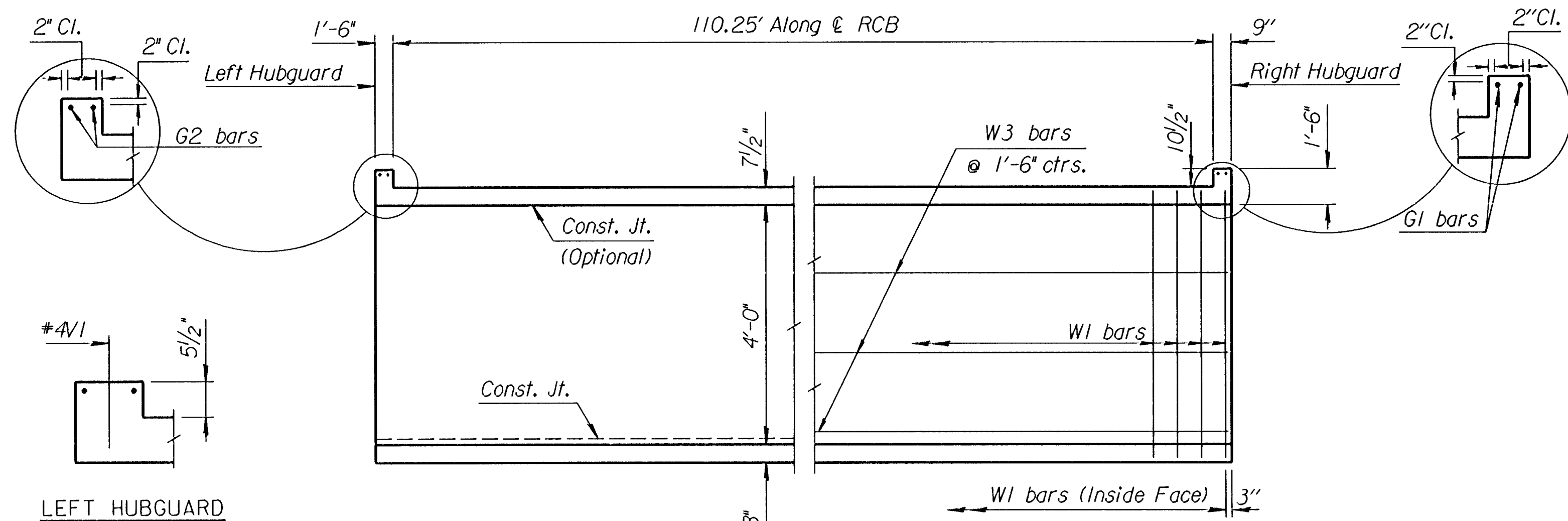


VERSION: 3.0.1 COMPILED: 09/01/93

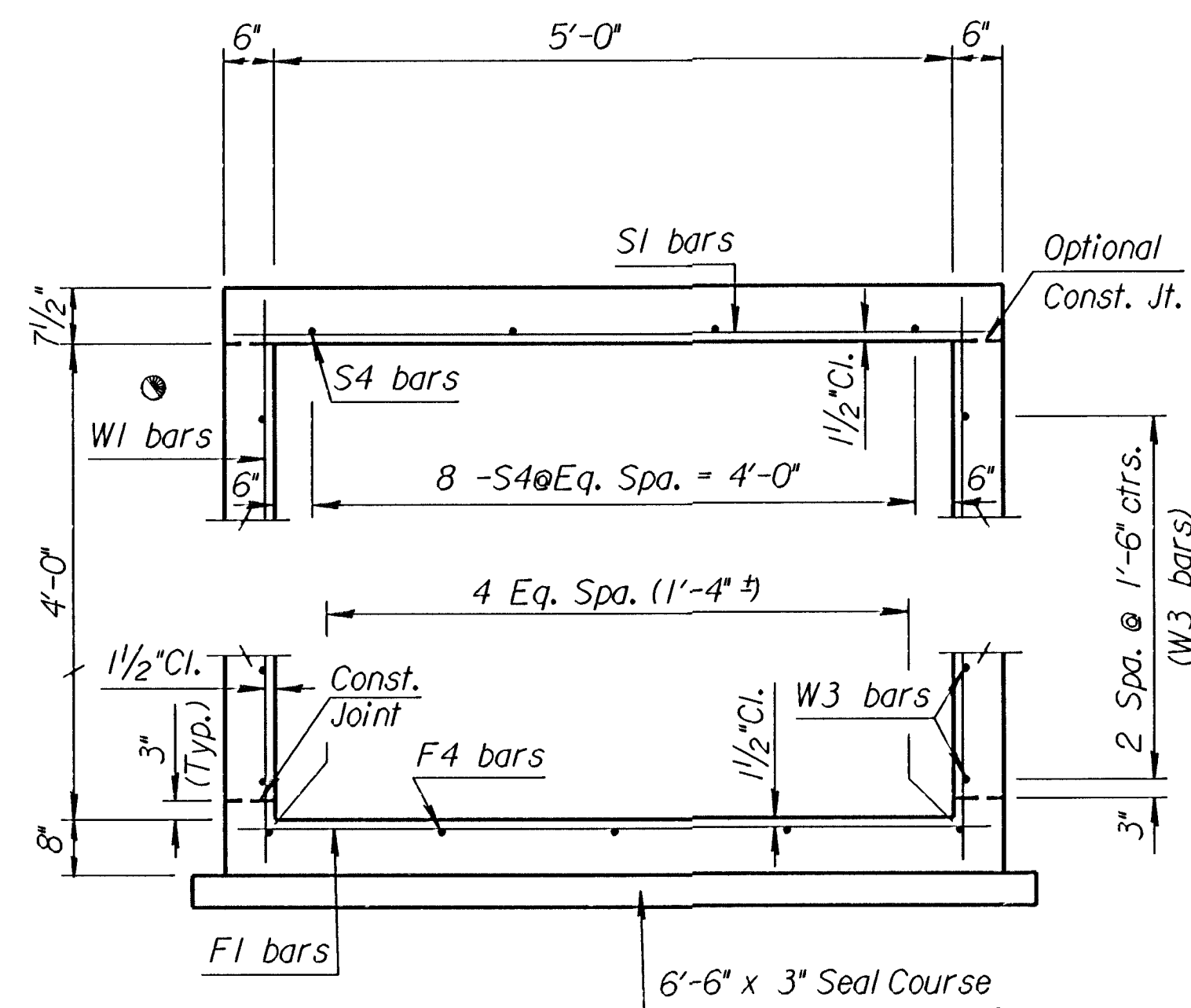
ORIG. FROM	BR. NO.	DESIGN	DATE	CHECK	DATE
DESIGN					
DETAIL					
REWORK					
RETRACTED					

Drawn By : KD07/RAS	View=
DGN File : 1995/95088/douglas/rcb5x4.dgn	
Plotted : wll 8-26-97	

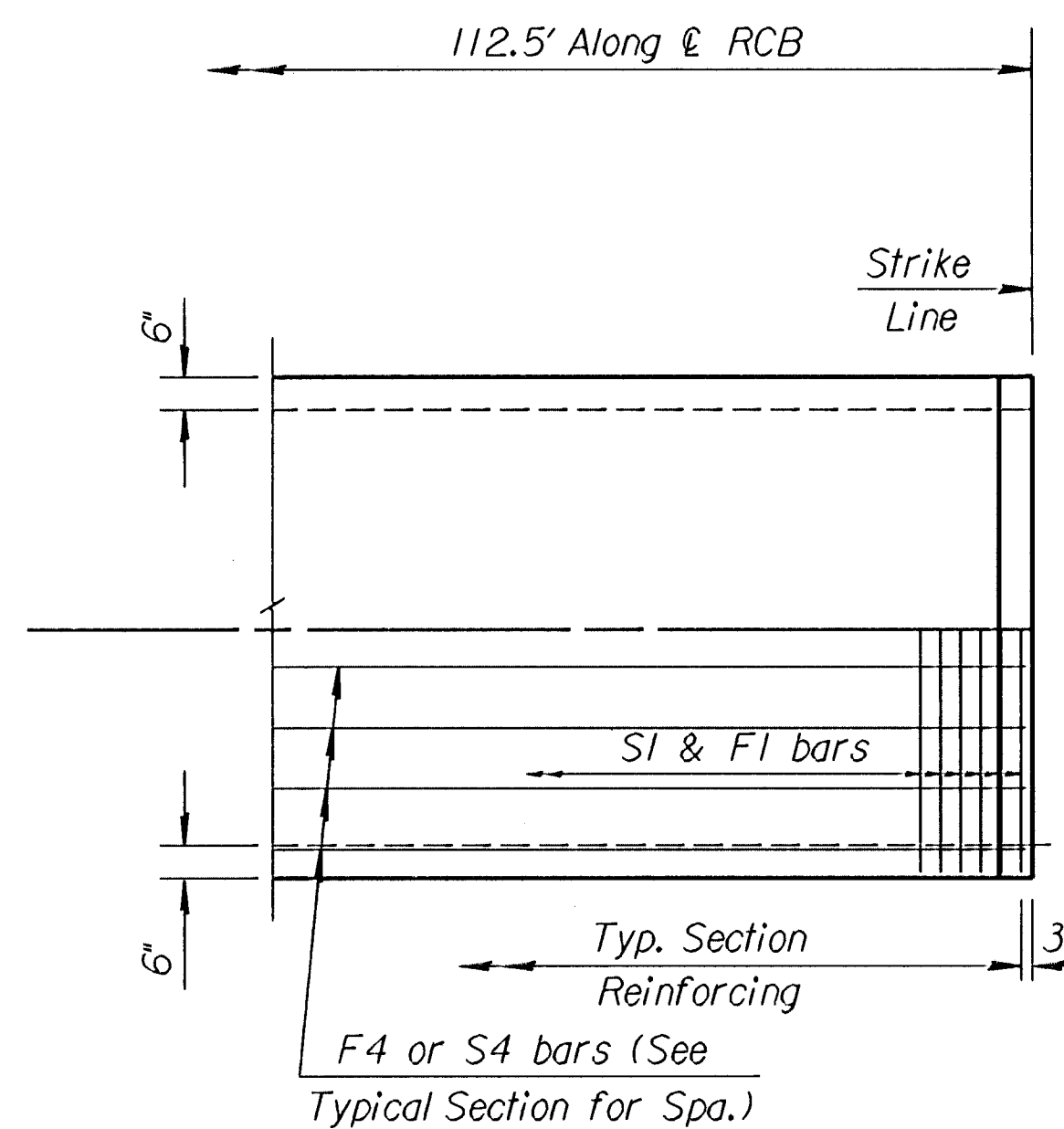
SHEET NO.	TOTAL SHEETS
C9	131



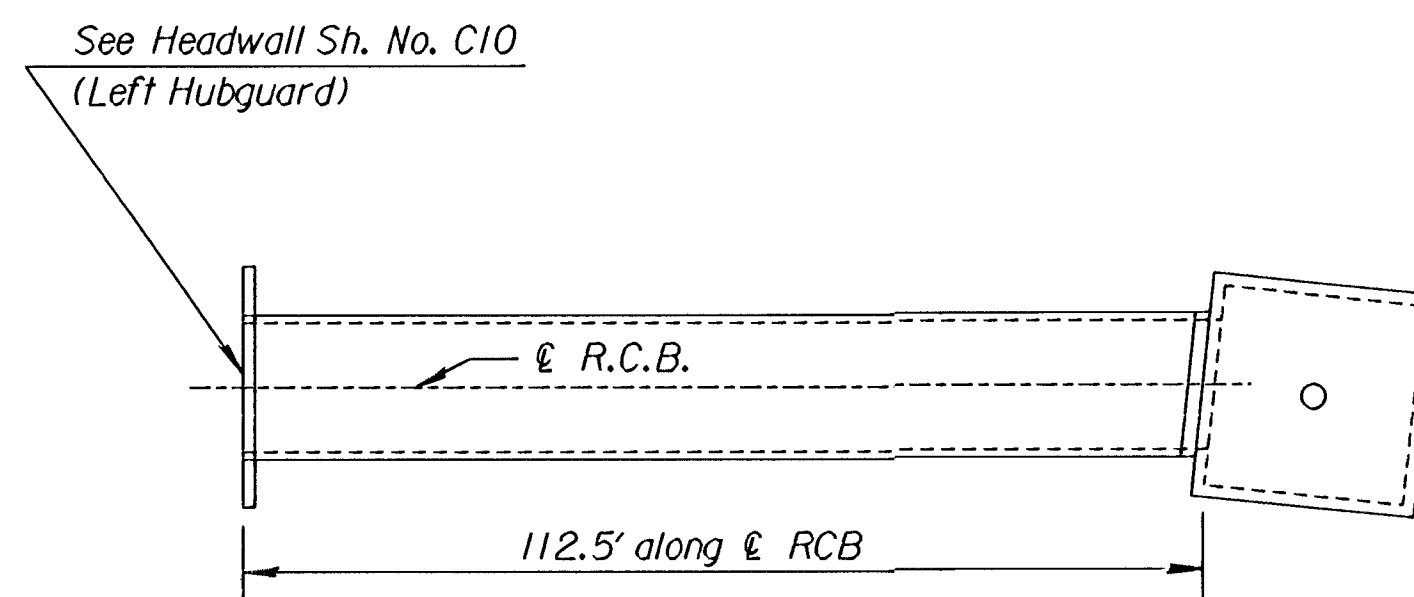
SECTION AND ELEVATION
(Along & RCB)



TYPICAL SECTION



PLAN



LOCATION PLAN
F1 & S1 Spacing Along & RCB

See RCB Auxillary Details for Optional Splice.

GENERAL NOTES

LOADING: HS20-44 AASHTO Specifications, 1983 Edition.
UNIT STRESSES: Class AAA Concrete(AE); $f'_c = 4,000$ p.s.i.
Reinforcing Steel; $f_y = 60,000$ p.s.i.
FILL HEIGHT: Unless otherwise noted, the Design Fill Height is measured from the riding surface at the culvert and shall include the surfacing.
CONCRETE: Class AAA Concrete(AE) shall be used throughout. Bevel all exposed edges with a $\frac{3}{4}$ inch triangular moulding.
REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted.
EXCAVATION: Excavation for culverts less than bridge length shall not be paid for directly but shall be subsidiary to Class AAA Concrete(AE). Excavation for RCB Bridges shall be paid for as Class III Excavation.
QUANTITIES: The quantities shown in the Culvert Summary include apron and/or soil saver quantities when their construction is required by the plans.
BASIS OF PAYMENT: The "5'x4' RCB" SWS Line A-125 shall be bid as a lump sum which shall include all labor, materials, excavation, concrete, reinforcing steel, and all other incidentals necessary to complete the work. Quantities are shown for information only. Precast sections are an allowed substitute for cast-in-place.

CULVERT SUMMARY															
Flow Line Elev. Lt.	Flow Line Elev. Rt.	Crown Gr. Elev.	Design Fill Ht.	Skew	Left Wings	Right Wings	Scour Apron	Soil Saver	Granular Backfill	Concrete			Reinf. Steel (Gr. 60)		
										Barrel (Cu.Yds.)	Headwall (Cu.Yds.)	Total (Cu.Yds.)	Barrel (Lbs.)	Headwall (Lbs.)	Total (Lbs.)
1279.52	1281.16	1302.25	17	0	SPECIAL	NONE	NO	NO	NO	49.11	1.99	51.10	5365.05	106.90	5471.95

** Headwall
Δ Epoxy Coated Bars
* See Bending Diagram

BAR SCHEDULE																																			
Δ F1												Δ F4				Δ S1								Δ G1				Δ S4							
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length						
5	6"	228	5'-8"	-	-	-	-	-	-	-	-	4	15	38'-7"	5	6"	228	5'-8"	-	-	-	-	5	-	2	5'-8"	4	24	38'-7"	-	-	-			
								Δ W1								Δ W3				** Δ H1				** Δ G2				** Δ V1				** Δ V2			
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	No.	Length	Size	Spa.	No.	Length			
-	-	-	*	-	-	-	*	5	12"	228	5'-0"	-	-	-	-	4	18	38'-7"	4	-	10	2'-1"	5	6	9'-6"	4	6	1'-2"	5	-	4	6'-11"			

Minimum Splice Lengths	
#4	1'-4"
#5	1'-8"
#6	2'-0"

For information only

SUMMARY OF QUANTITIES	
Class AAA Concrete(Seal Course)	6.8 C.Y.
Class AAA Concrete (AE)	51.1 C.Y.
Class III Excavation	---- C.Y.
Reinforcing Steel (Gr. 60)	---- Lbs.
Reinforcing Steel (Epoxy Coated)	5470 Lbs.
Foundation Stabilization (Set)	---- C.Y.
Granular Backfill (Wingwalls) (Set)	---- C.Y.
Excavatable Flowable Fill	112 L.F.

KANSAS DEPARTMENT OF TRANSPORTATION				
SINGLE 5' x 4' RCB				
SWS Line A-125				
Std. No. 105.04 SEDGWICK CO.				
DESIGNED	6-5-91	APP'D	KENNETH F. HURST	
DETAIL CK.		QUANTITIES	TRACED	
DESIGN CK.		QUAN. CK.	TRACE CK.	