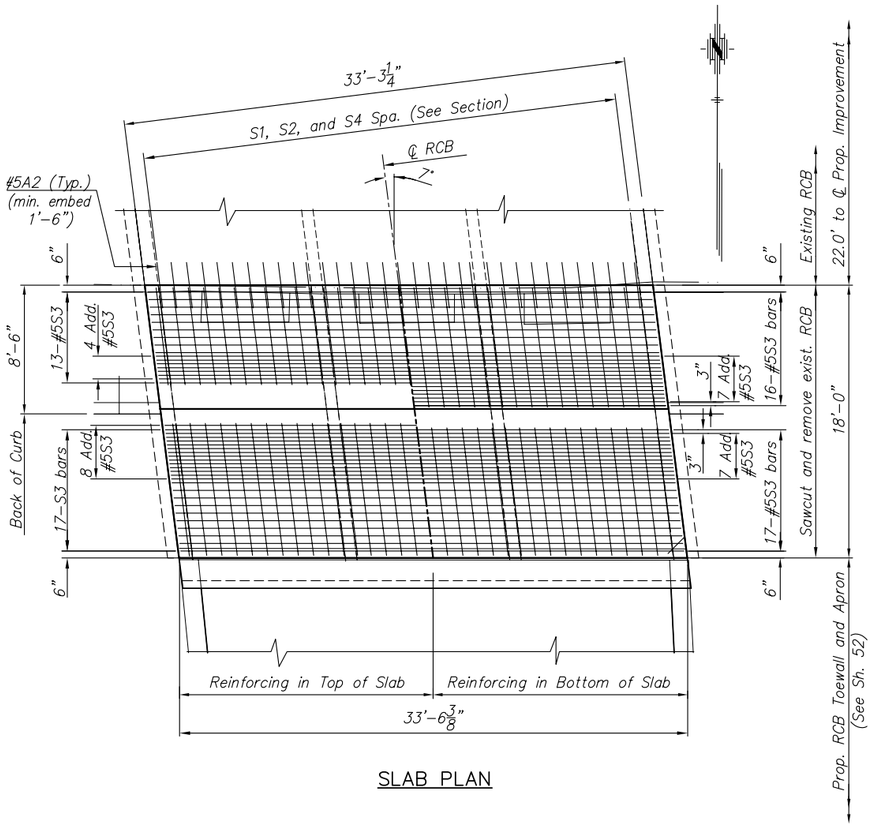
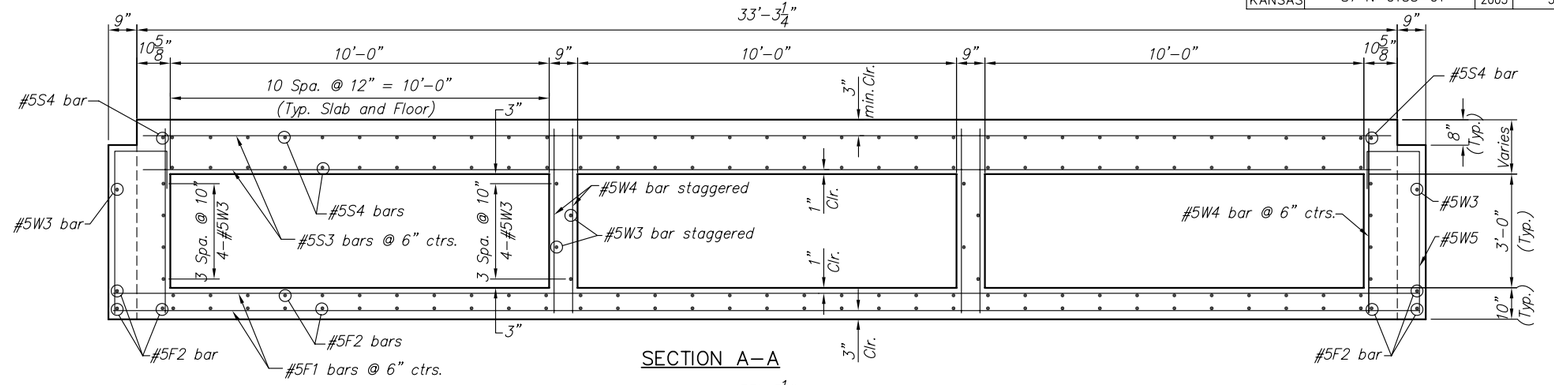
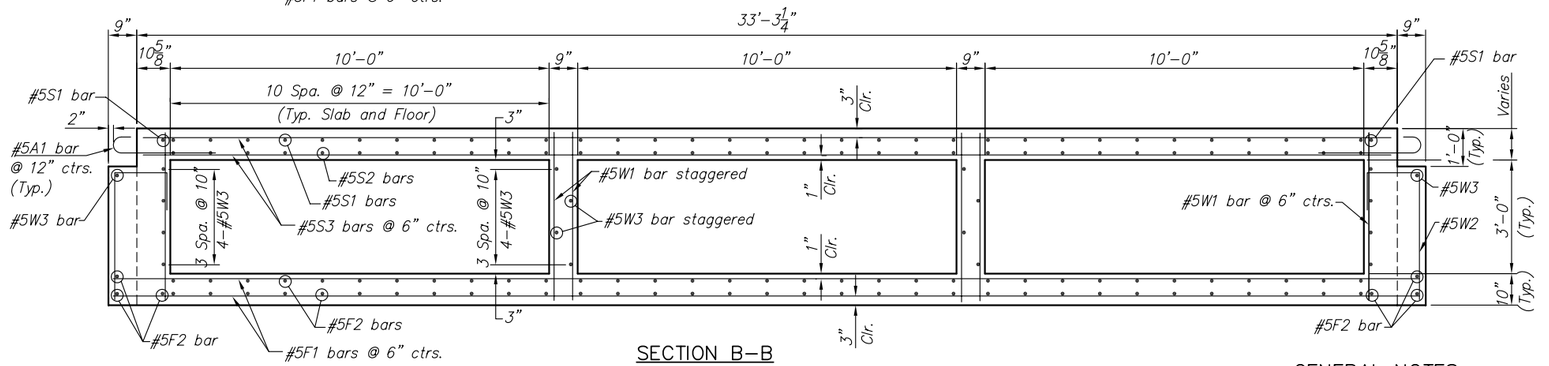
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0135-01	2005	51	137



SLAB PLAN



SECTION A-A



SECTION B-B

GENERAL NOTES

LOADING: MS18-44 AASHTO Specifications, 1996 Edition.

UNIT STRESSES: Concrete; f'c = 28 MPa Reinforcing Steel (Grade 420); fy = 420 MPa

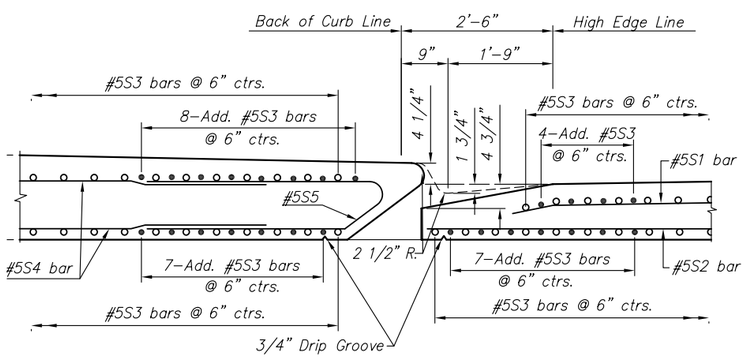
FILL HEIGHT: Unless otherwise noted, the Design Fill Height is measured from the riding surface at the culvert and shall include the surfacing.

CONCRETE: Grade 31 Concrete (AE) shall be used throughout. Bevel all exposed edges with a 3/4" triangular moulding.

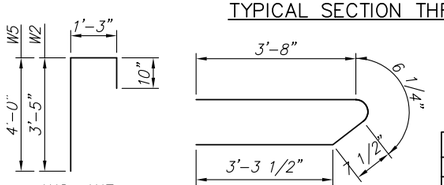
REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60, Epoxy Coated. All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted.

QUANTITIES: The quantities shown in the Culvert Summary include apron, channel walls and channel floor quantities. Payment for additional quantities that result from including seal course and/or floating apron, as a change in original plans, shall be made at the Unit Price bid for the various items involved.

GRANULAR BACKFILL (WINGWALLS): Special backfill procedures may be required at the direction of the Engineer. See Auxiliary Details Sheet.

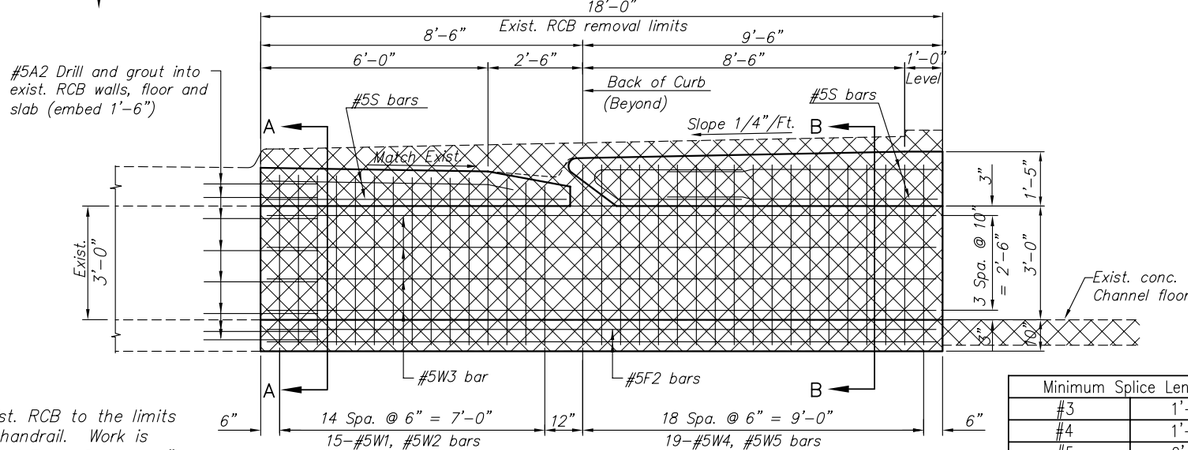


TYPICAL SECTION THRU INLET



BENDING DIAGRAM

Sawcut and remove exist. RCB to the limits shown. Remove exist. handrail. Work is subsidiary to "Removal of Exist. Structures"



LONGITUDINAL SECTION
(Transverse bars not shown for clarity)

Minimum Splice Lengths	
#3	1'-2"
#4	1'-6"
#5	2'-0"

BAR SCHEDULE

	F1				F2				S1				S2				S3				S4				S5			
	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length
Ext.Lt. (North)	#5	6"	70	34'-8"	#5	12"	72	17'-8"	#5	12"	35	6'-7"	#5	12"	33	7'-10"	#5	6"	89	33'-2"	#5	12"	68	7'-2"	#5	12"	33	7'-1 1/4"
Ext.Rt. (South)	#5	6"	70	34'-8"	#5	12"	72	17'-8"	#5	12"	35	6'-7"	#5	12"	33	7'-10"	#5	6"	89	33'-2"	#5	12"	68	7'-2"	#5	12"	33	7'-1 1/4"

	W1				W2				W3				W4				W5				A1				A2			
	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length
Ext.Lt. (North)	#5	6"	60	4'-5"	#5	6"	30	5'-6"	#5	10"	18	17-8"	#5	6"	76	4'-9"	#5	6"	38	6'-1"	#5	12"	16	3'-8"	#5	10"	148	3'-0"
Ext.Rt. (South)	#5	6"	60	4'-5"	#5	6"	30	5'-6"	#5	10"	18	17-8"	#5	6"	76	4'-9"	#5	6"	38	6'-1"	#5	12"	16	3'-8"	#5	10"	148	3'-0"

SUMMARY OF QUANTITIES

(Includes Barrel and Wingwall/Apron)

North End		
Grade 31 Concrete (AE)	72.12	C.Y.
Reinforcing Steel (Epoxy Coated)	11,045	LBS.
Foundation Stabilization	23	C.Y.
Granular Backfill	10	C.Y.
South End		
Grade 31 Concrete (AE)	70.72	C.Y.
Reinforcing Steel (Epoxy Coated)	10,975	LBS.
Foundation Stabilization	24.8	C.Y.

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NO.	DATE	REVISIONS	BY	APP'D
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

TRIPLE 10'x3' RC GRADE BOX EXTENSION SOUTH END (7° SKEW)

PROJ. NO. 87 N-0135-01 SEDGWICK CO.

MKEC ENGINEERING CONSULTANTS, INC.
WICHITA, KANSAS

DESIGNED BY:	KJS	CHECKED BY:	KJS
DRAWN BY:	DPG	DATE: DEC 05	SHEET 51 OF 137