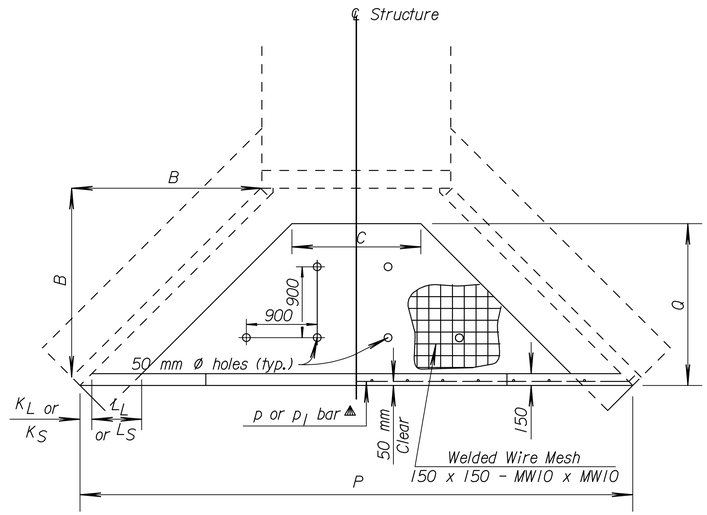
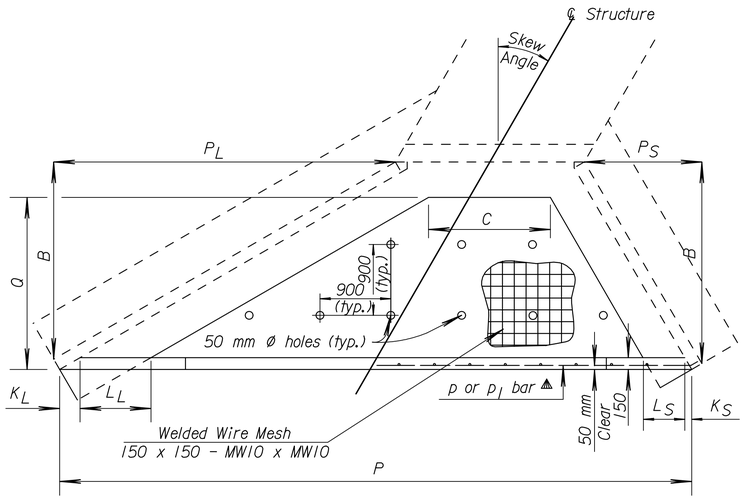
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	54-87 K-6657-01	2002	430	1122

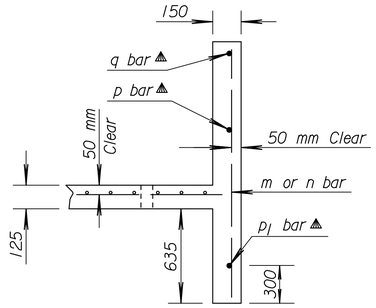


PLAN



PLAN - SKEW

▲ Drill and grout p and q bars into wingwalls and p_1 bar into wing footings when the soil saver end wall is constructed separately from the wingwalls. Drilling and grouting shall be Subsidiary to the bid item "Reinforcing Steel".



SECTION X-X

GENERAL NOTE

CONCRETE: Class AAA Concrete shall be used throughout. All exposed edges shall be finished with an edging tool.

REINFORCING: All dimensions are to ℄ of bar except where noted. All reinforcing bars are #13. Reinforcing bars shall be Grade 420 billet steel. Minimum clearance on all reinforcement shall be 50 mm.

Mass of welded wire mesh is approximately 1.08 kg/m². Mesh shall be paid as kg of reinforcing steel.

When holes in the apron are warranted by drainage conditions they shall be constructed as directed by the Engineer.

ELEVATION AND SECTION

ELEVATION AND SECTION

	STATION	14+443.483			SIDE Rt.					Skew 30° Rt.		Z=0.229	
	Letter	B	C	K_L	K_S	L_L	L_S	M	N	P	P_L	P_S	Q
B	Dimension	1 675	5 710	260	87	613	352	1 528	840	9 833	2 900	990	1 376
	Bar	m	n *	p	p_1	q		Mesh					10.1 m²
	Number	16	4	1	1	2		Class "AAA" Conc.					2.53 m³
	Length	890	1 180	9 910	9 040	2 300		Reinf. steel					53.5 kg

	STATION				SIDE					Skew		Z=	
	Letter	B	C	K_L	K_S	L_L	L_S	M	N	P	P_L	P_S	Q
	Dimension												
	Bar	m	n *	p	p_1	q		Mesh					m²
	Number							Class "AAA" Conc.					m³
	Length							Reinf. steel					kg

	STATION	15+407.000			SIDE Lt.					Skew 45° Lt.		Z=0.60	
	Letter	B	C	K_L	K_S	L_L	L_S	M	N	P	P_L	P_S	Q
C	Dimension	1 690	2 662	376	62	822	330	600	840	7 717	4 085	700	1 353
	Bar	m	n *	p	p_1	q		Mesh					7.3 m²
	Number	15	2	2	1	2		Class "AAA" Conc.					2.24 m³
	Length	1 260	640	7 520	6 370	1 620		Reinf. steel					51.9 kg

	STATION				SIDE					Skew		Z=	
	Letter	B	C	K_L	K_S	L_L	L_S	M	N	P	P_L	P_S	Q
	Dimension												
	Bar	m	n *	p	p_1	q		Mesh					m²
	Number							Class "AAA" Conc.					m³
	Length							Reinf. steel					kg

	STATION				SIDE Lt.					Skew 0°			
	Letter	B	C	K_L	K_S	L_L	L_S	M	N	P	P_L	P_S	Q
	Dimension												
	Bar	m	n *	p	p_1	q		Mesh					
	Number							Class "AAA" Conc.					
	Length							Reinf. steel					

	STATION				SIDE					Skew		Z=	
	Letter	B	C	K_L	K_S	L_L	L_S	M	N	P	P_L	P_S	Q
	Dimension												
	Bar	m	n *	p	p_1	q		Mesh					m²
	Number							Class "AAA" Conc.					m³
	Length							Reinf. steel					kg

Quantities include apron and soil saver end wall.

*n bars are variable, increase by increments of 175 mm. Cut 2 each length.

SUMMARY OF SOIL SAVERS

Station	Culvert Size	Side	Z	Skew
14+443.483	2-2.4 x 0.9	Rt.	0.229	30° Rt.
15+407.000	1.8 x 0.9	Lt.	0.60	45° Lt.

NO.	DATE	REVISIONS	BY	APP'D
2	08-01-00	Revised Drill & Grout note	R.J.S.	J.O.B.
1	1-27-97	Revised Rebar Designation & Grade	R.J.S.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION

SOIL SAVER FOR R.C. CULVERTS

RD520 SI

FHWA APPROVAL	8-23-00	APP'D. James O. Brewer	
DESIGNED	DETAILED	QUANTITIES	TRACED Bowser
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK. Seltz

RECORD DRAWING

Note to the Designer: See the appropriate culvert standard drawings for the required dimensions and angles.

Last Rev: 8-29-07 By: gdr

Plotted: wll 10-10-2001

Drawn By: KDOT

File: i:/1997/97362/As-Builts/dgn's/Vol 2/Sh 430-KDOT Std-RD520SI.dgn