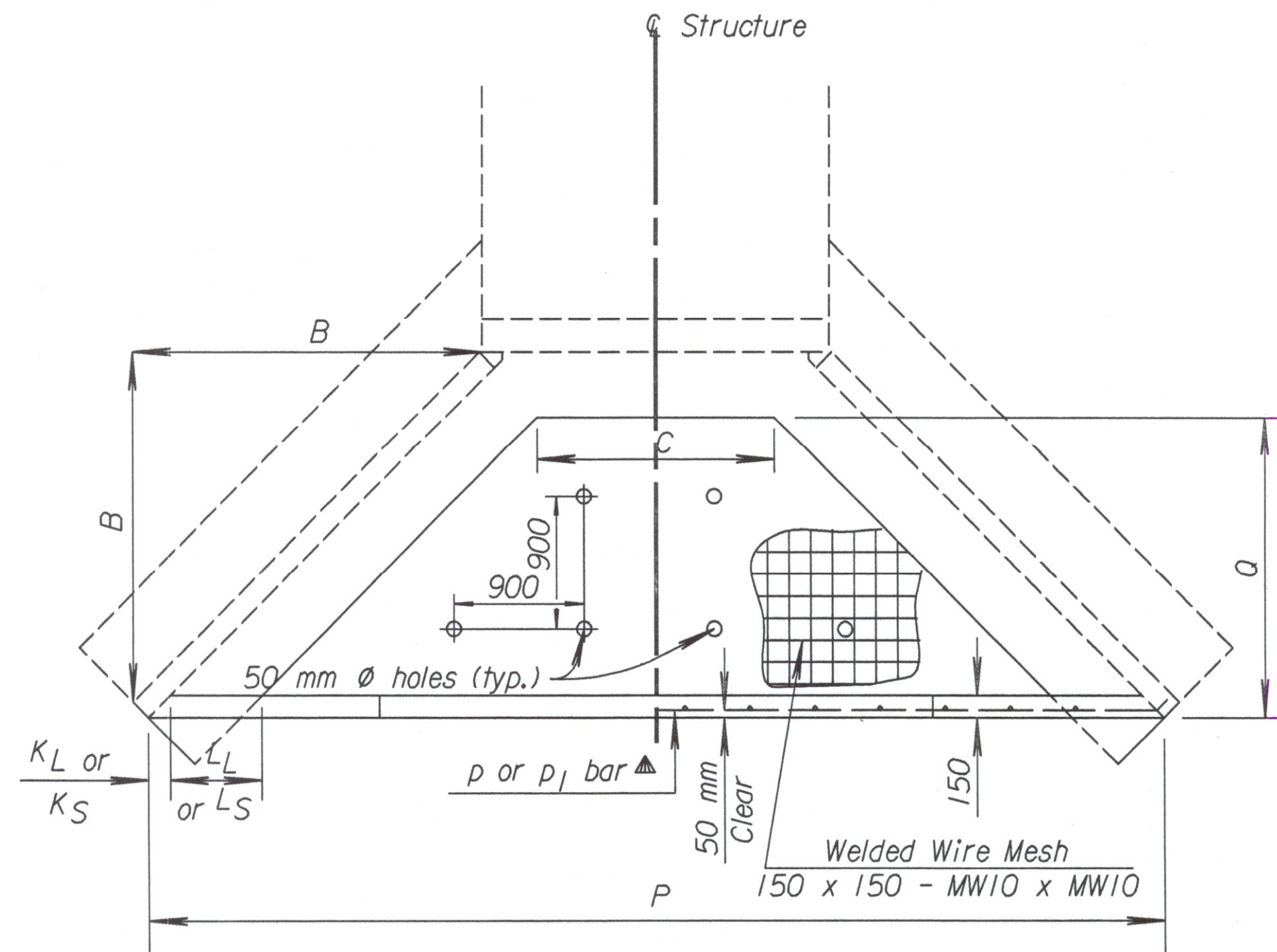
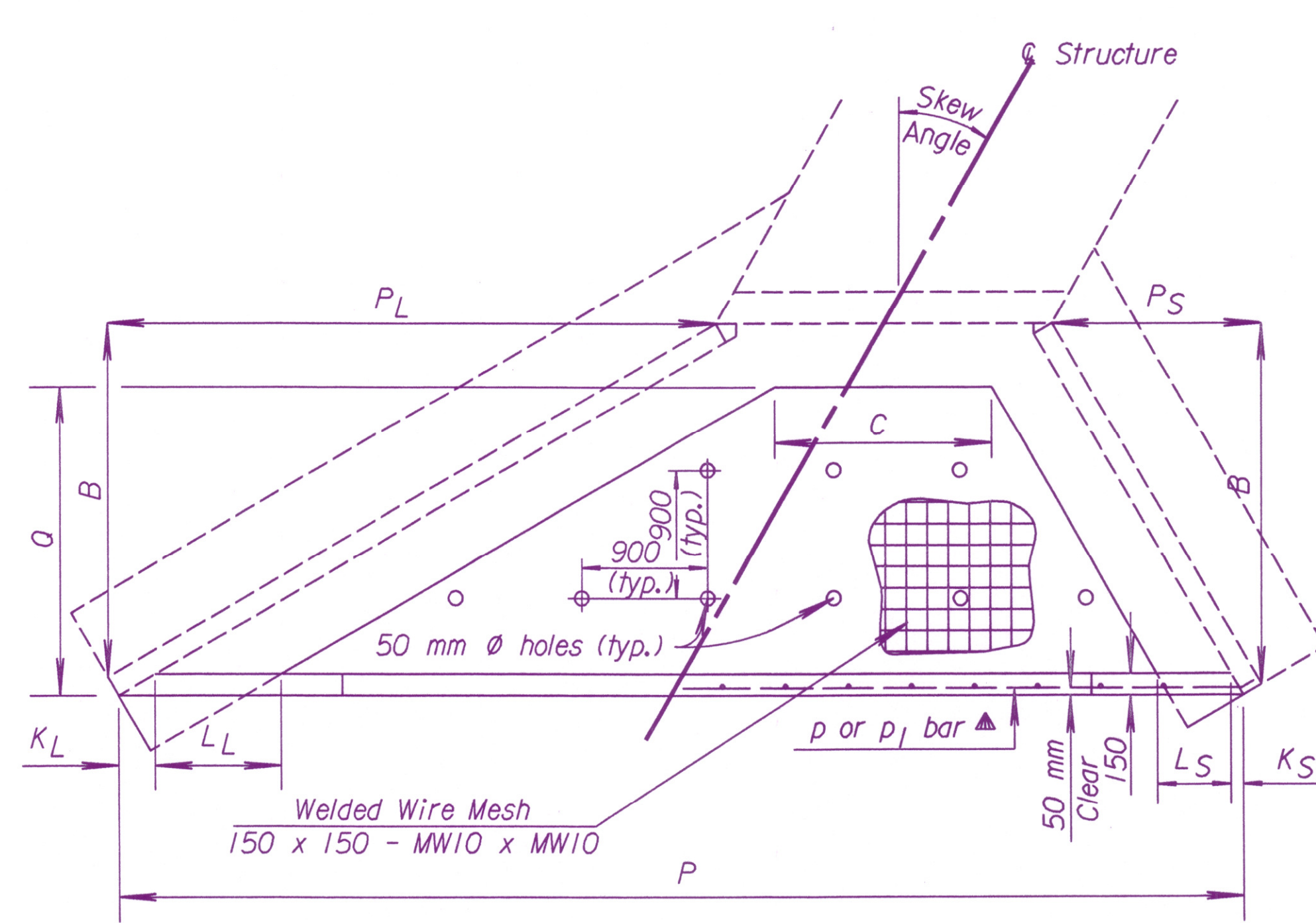


GENERAL NOTE

CONCRETE: Class AAA Concrete shall be used throughout. All exposed edges shall be finished with an edging tool.
 REINFORCING: All dimensions are to \mathcal{L} 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.

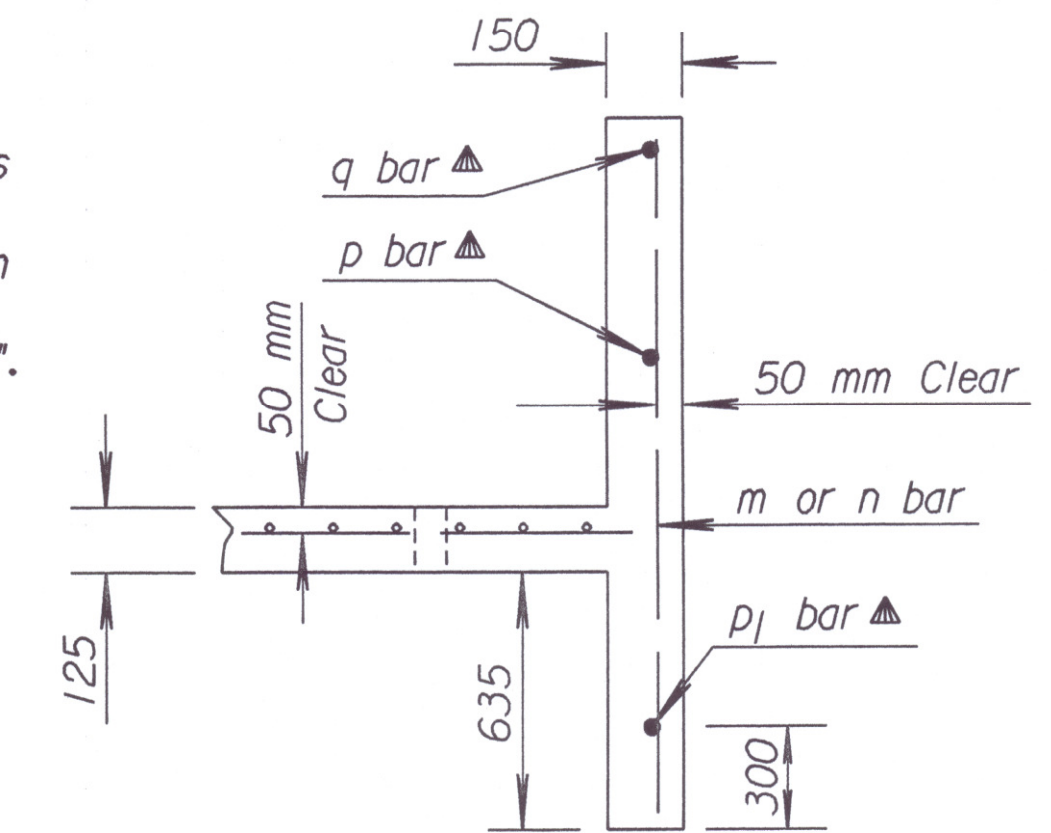


PLAN

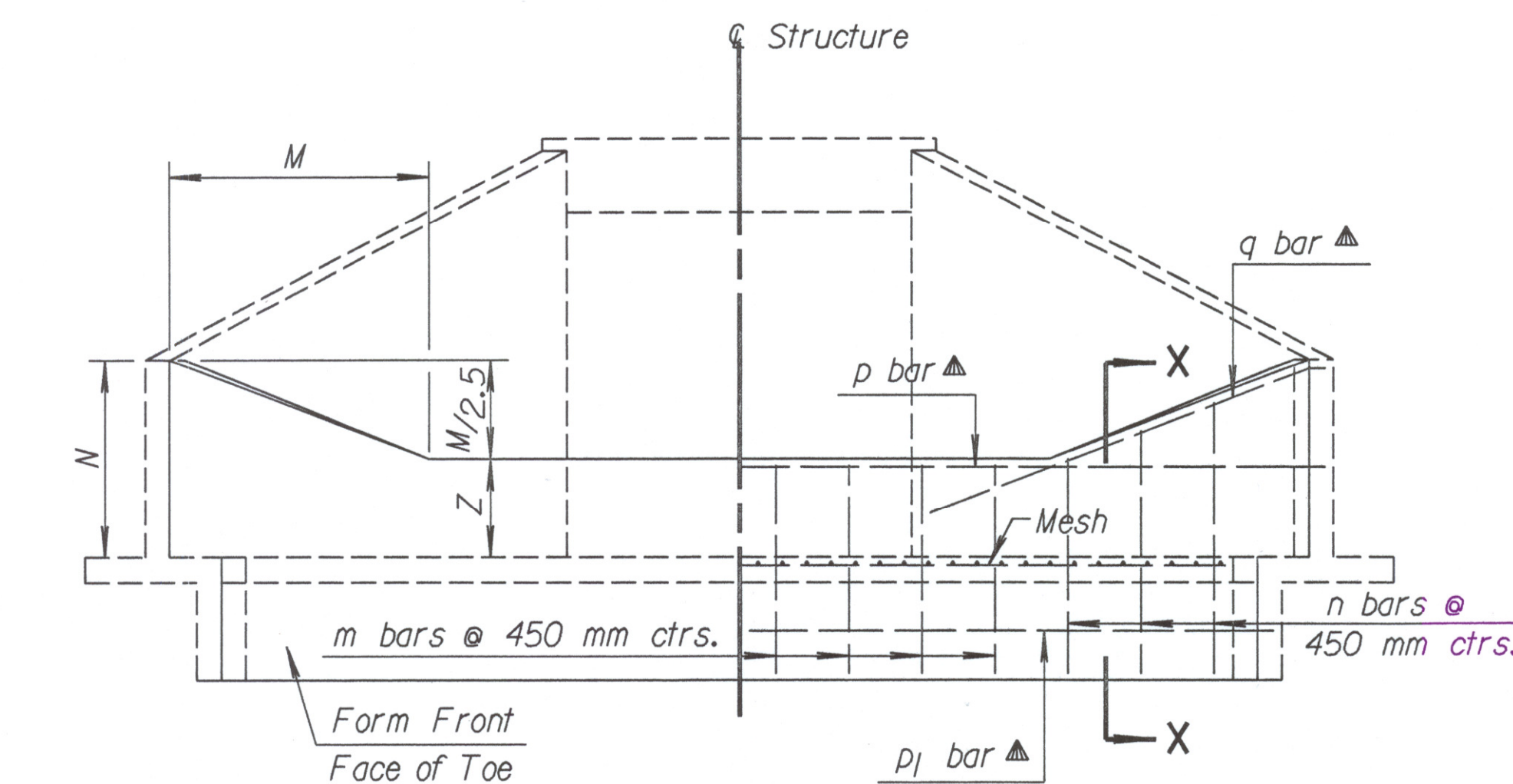


PLAN - SKEW

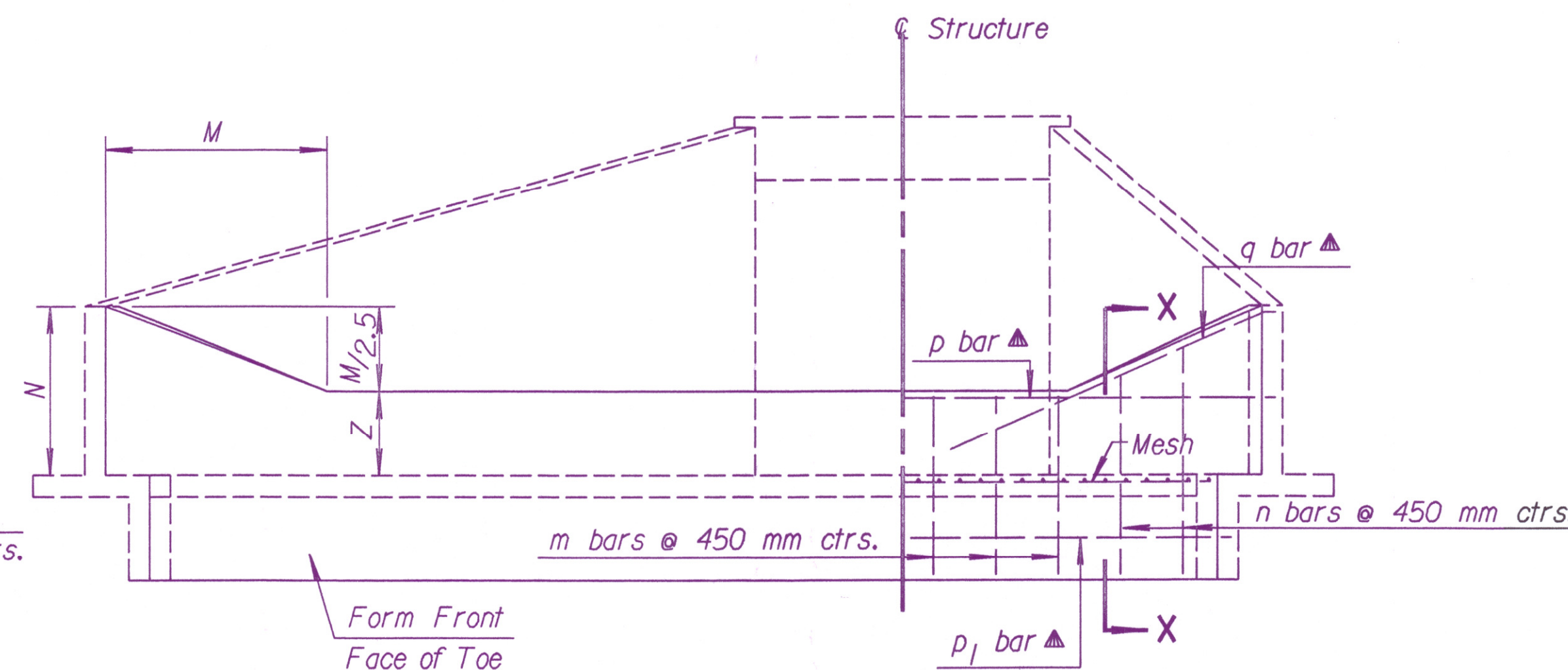
▲ Drill and grout p and q bars into wingwalls and p₁ bar into wing footings when the soil saver end wall is constructed separately from the wingwalls. Drilling and grouting shall be Subsidiary to the bid item "Reinforcing Steel".



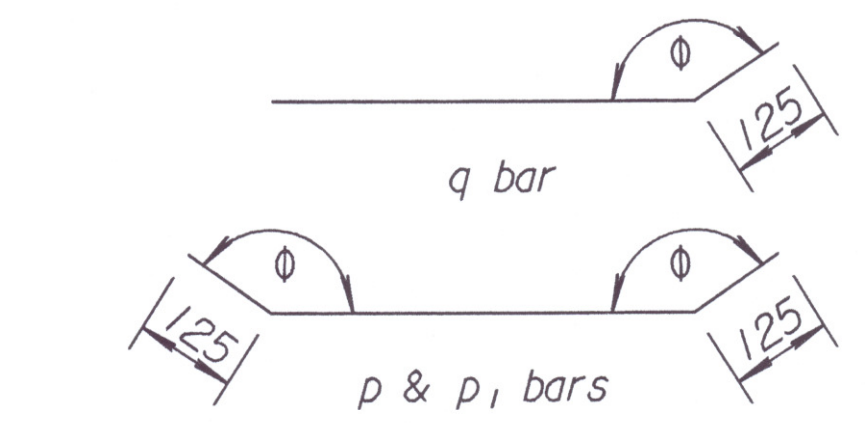
SECTION X-X



ELEVATION AND SECTION



ELEVATION AND SECTION



∅ Angle varies according to skew of RCB. Bars shall be field bent.

BENDING DIAGRAMS

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.

STATION	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
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 m ²
Number	16	4	1	1	2		Class "AAA" Conc.					2.53 m ³
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					m ²
Number							Class "AAA" Conc.					m ³
Length							Reinf. steel					kg

STATION	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
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 m ²
Number	15	2	2	1	2		Class "AAA" Conc.					2.24 m ³
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					m ²
Number							Class "AAA" Conc.					m ³
Length							Reinf. steel					kg

STATION	SIDE Lt.						Skew 0°				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					m ²
Number							Class "AAA" Conc.					m ³
Length							Reinf. steel					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					m ²
Number							Class "AAA" Conc.					m ³
Length							Reinf. steel					kg

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	QUANTITIES	TRACED Bowser
DESIGN CK.	DETAIL CK.	QUAN. CK. TRACE CK. Seltz

Quantities include apron and soil saver end wall.

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

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

Drawn By: KDOT Plotted: 10-10-2001 File: i:/1997/97362/001/rcb/rd520s.dgn