PHASE I

PAVING & INCIDENTAL DRAINAGE FOR

WOODLAND ESTATES

GATEWOOD : FROM THE NORTH LINE OF CENTRAL TO THE EAST LINE OF WOODLAND ESTATES

PROJECT NO.

472 76·245·81592·000·000·001

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

FEBRUARY, 1987

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
2. TREES TO BE REMOVED ARE MARKED ⊗ . ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
3. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
4. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

NOTE: NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

ARKLA GAS COMPANY	942-8350
BELL TELEPHONE COMPANY	1-316-571-2115
CABLEVISION	262-0661
KP&L COMPANY	263-7511
KANSAS GAS & ELECTRIC	264-1141
KANSAS ONE-CALL	1-800-344-7233
CITIES SERVICE	524-0491

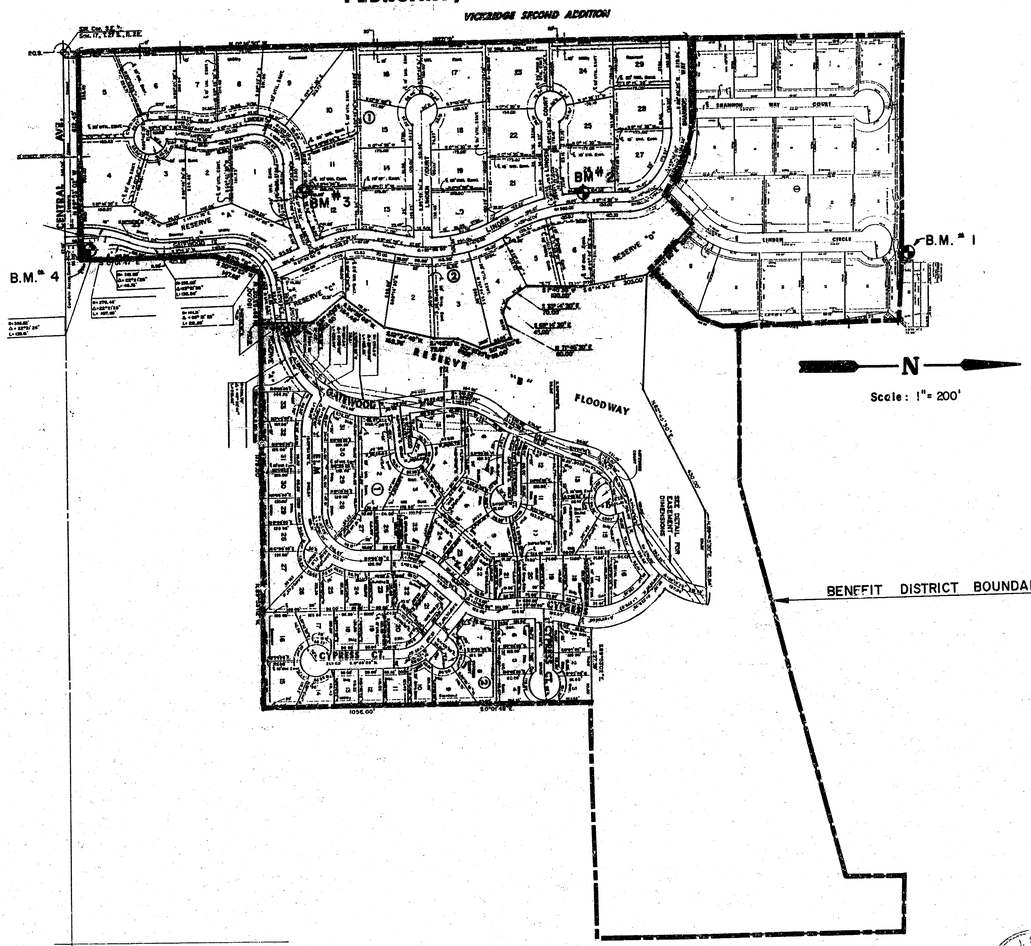
BENCH MARKS

B.M. #1 SPK STEP IN COR. FC POST 660' E. & 40' S. OF CTR. SEC. 17, T27S, R2E ELEV. = 176.09'

B.M. #2 TOP OF 5/8" BAR & CAP AT P.C. ON E. LINE OF LOT 26, BLK 1, WOODLAND ESTATES ELEV. = 167.32'

TBM #3 TOP OF 5/8" BAR & CAP AT WEST P.C. IRON ON LINDEN COURT ON LOT 12, BLK 1, WOODLAND ESTATES ELEV. = 162.82'

B.M. #4 CITY OF WICHITA BENCH MARK DISC. ON THE N.E. COR. OF RCB AT CENTRAL & GYPSUM CREEK ELEV. = 157.24'



INDEX TO DRAWINGS

PAUL J. SYATT, JR. LICENSED 7154 KANSAS PROFESSIONAL ENGINEER

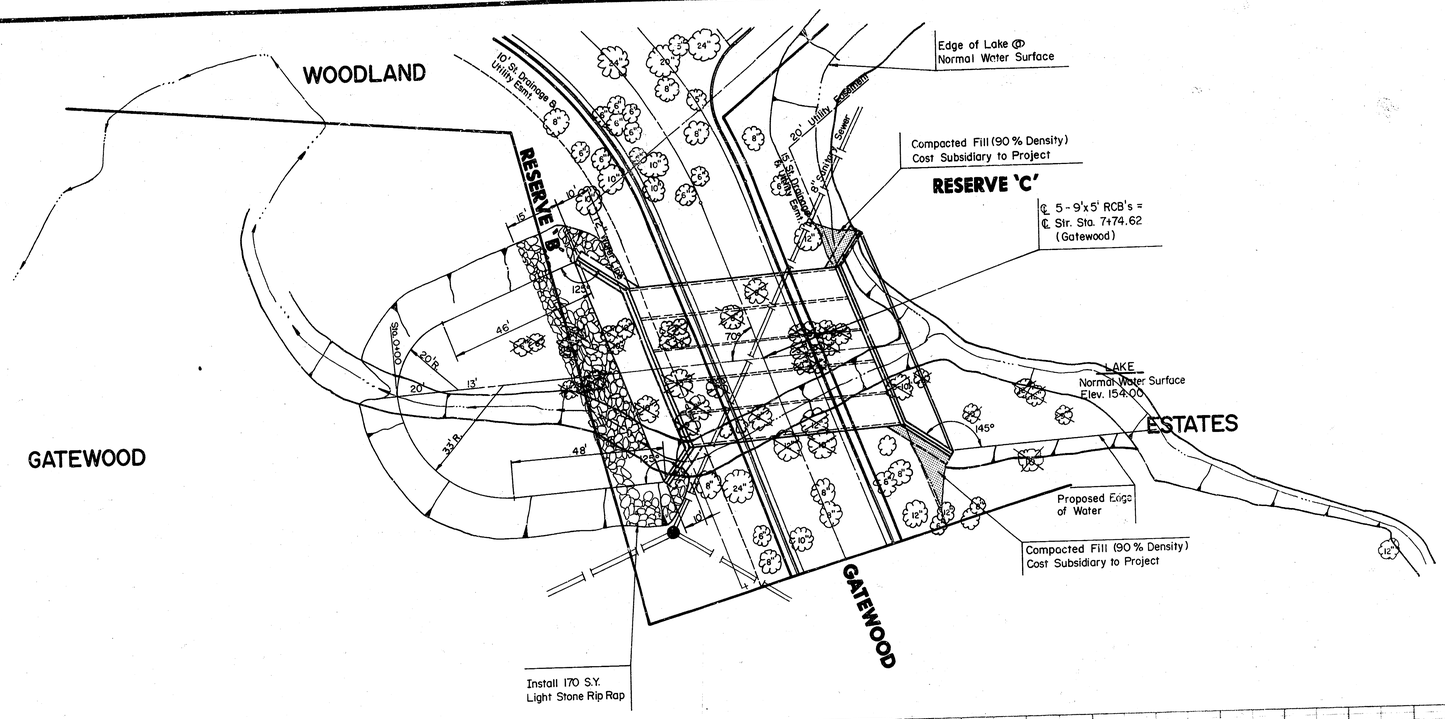
WOODLAND ESTATES
PAVING & INCIDENTAL DRAINAGE

Design KJS / FBN
Drawn by SJM
Checked by DSS
Date 2-16-87
Job no.

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
682-6561

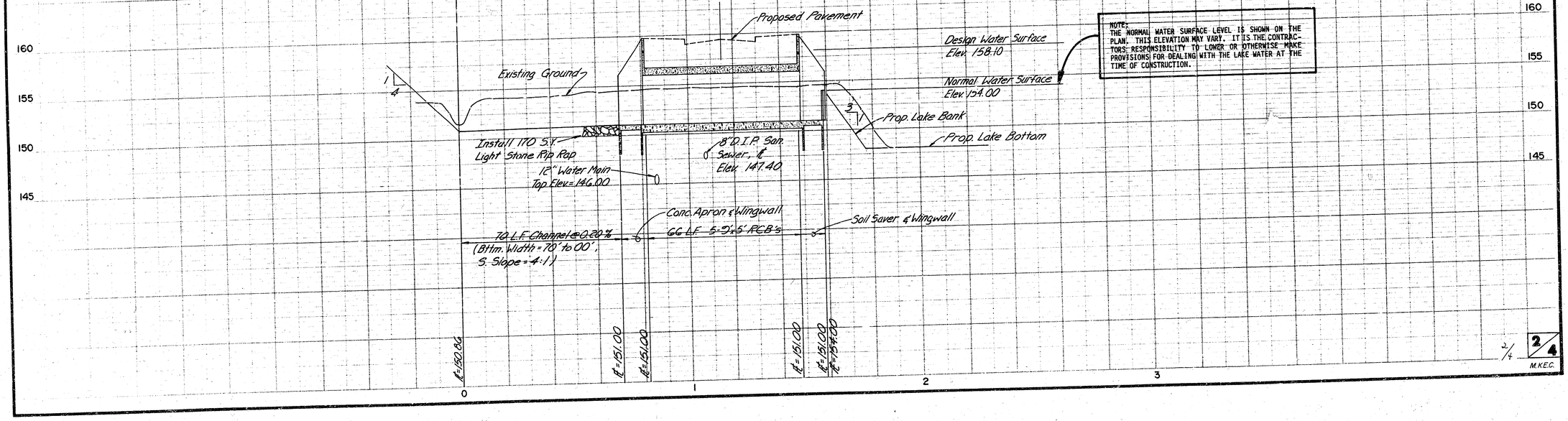
Sheet 1 of 4 1/4

WOODLAND ESTATES PAVING
AND INCIDENTAL DRAINAGE
PROJ. NO. 472-76-245-E1592-000-000-001



N

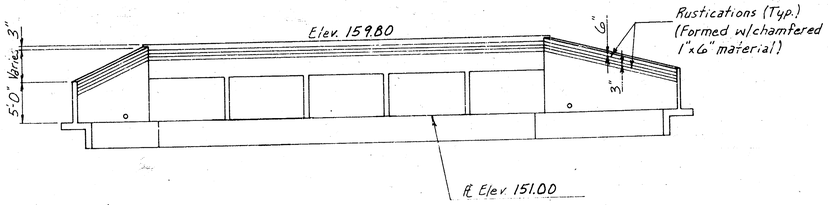
SCALE
1"= 20' Horiz.
1"= 5' Vert.



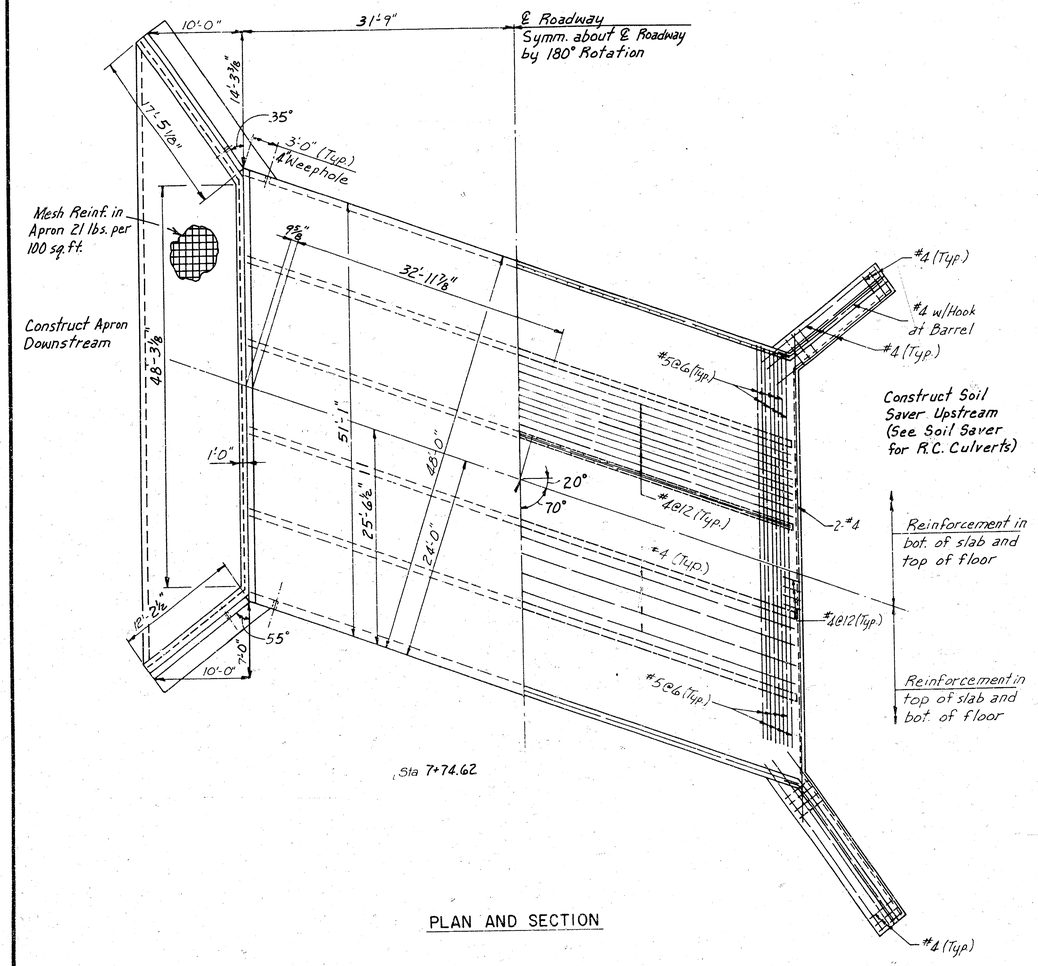
NOTE:
THE NORMAL WATER SURFACE LEVEL IS SHOWN ON THE PLAN. THIS ELEVATION MAY VARY. IT IS THE CONTRACTORS RESPONSIBILITY TO LOWER OR OTHERWISE MAKE PROVISIONS FOR DEALING WITH THE LAKE WATER AT THE TIME OF CONSTRUCTION.

2/4

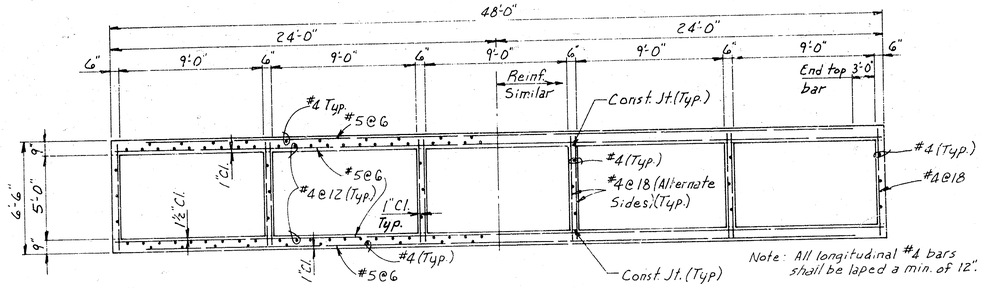
M.K.E.C.



END ELEVATION

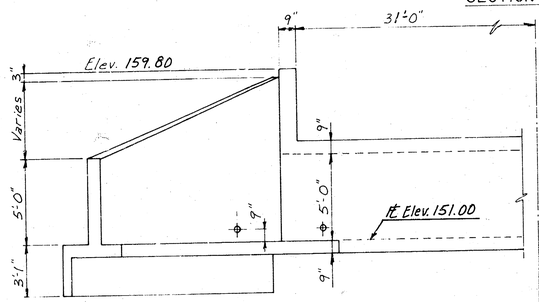


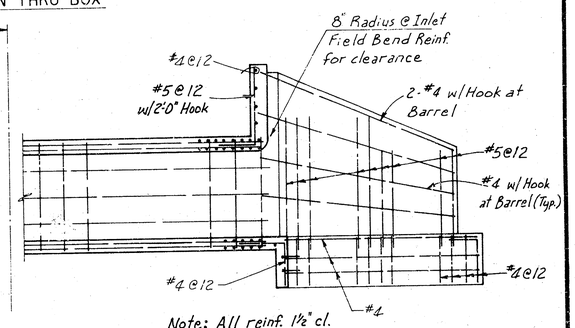
PLAN AND SECTION



Note: All longitudinal #4 bars shall be laped a min. of 12".

SECTION THRU BOX





Note: All reinf. 1½" cl. unless otherwise specified.

ELEVATION AND SECTION

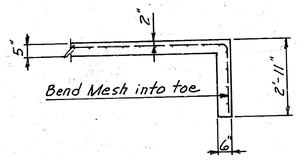
LOADING: H20-44 AASHTO Specifications, Edition of 1984
UNIT STRESSES: fc = 4,000 psi, fs = 24,000 psi (Gr. 60)

The concrete mix specified for the City of Wichita concrete Pavement shall be used throughout. Bevel all exposed edges with a 3/4" triangular moulding, unless otherwise noted. The contractor shall adjust the concrete water content to attain a minimum 28-day strength of 4,000 psi.

Coarse Aggregate shall be deposited behind each weephole to occupy a space extending 15" in all directions above the weephole flowline. This work shall not be paid for directly, but shall be considered as part of the excavation work.

Construction joints shall be formed only at locations shown or as approved by the Engineer.

A Seal Course of 3" of concrete shall be constructed under the entire floor slab and wing footings. No reinforcing steel shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury. This item shall not be paid directly but be considered subsidiary to other items.



SECTION THRU APRON

REINFORCING AT PIPE
THROUGH REINFORCED CONCRETE BOX
(As required)

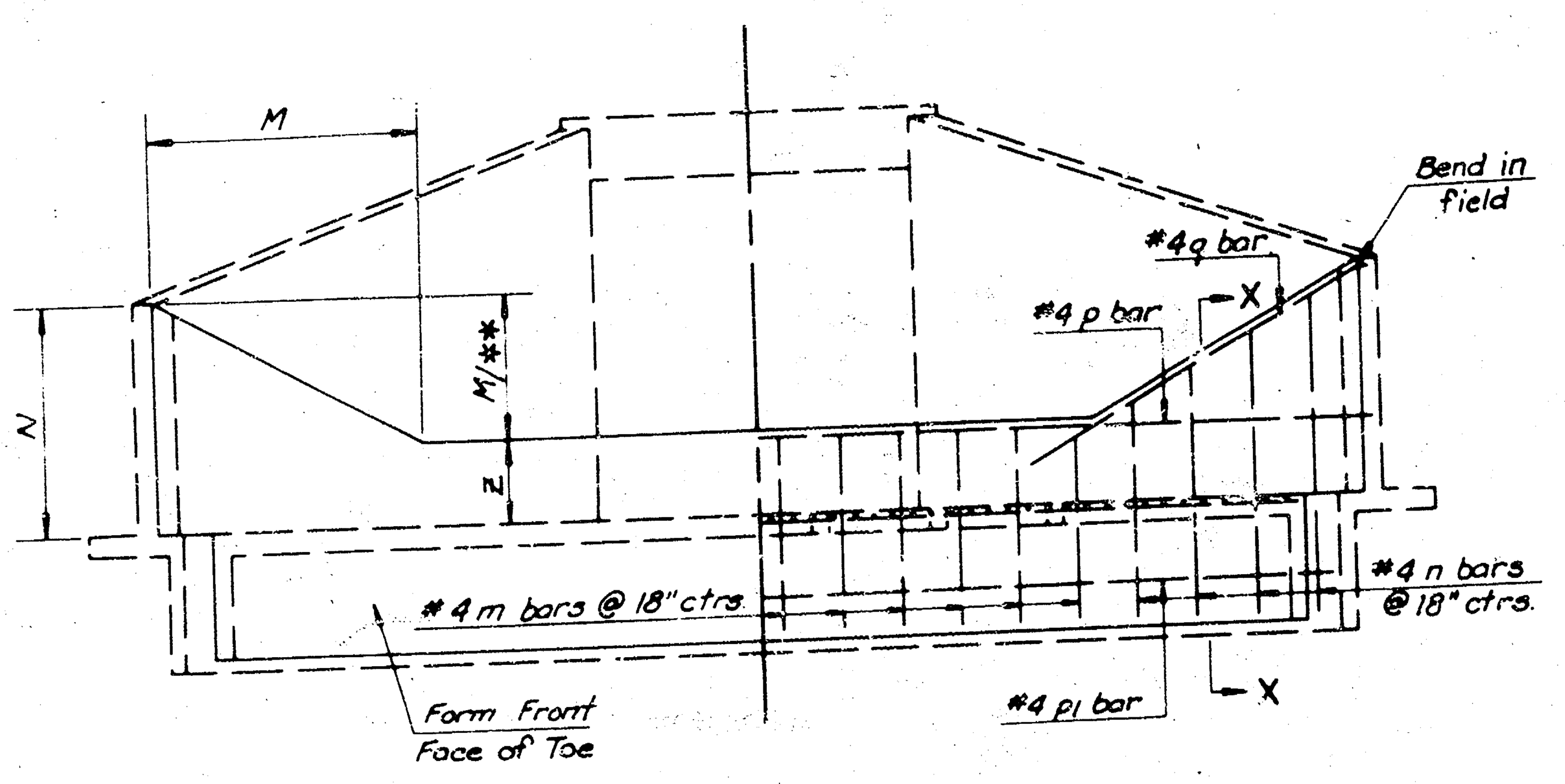
SECTION THRU WING

REINFORCED CONCRETE BOX CULVERT

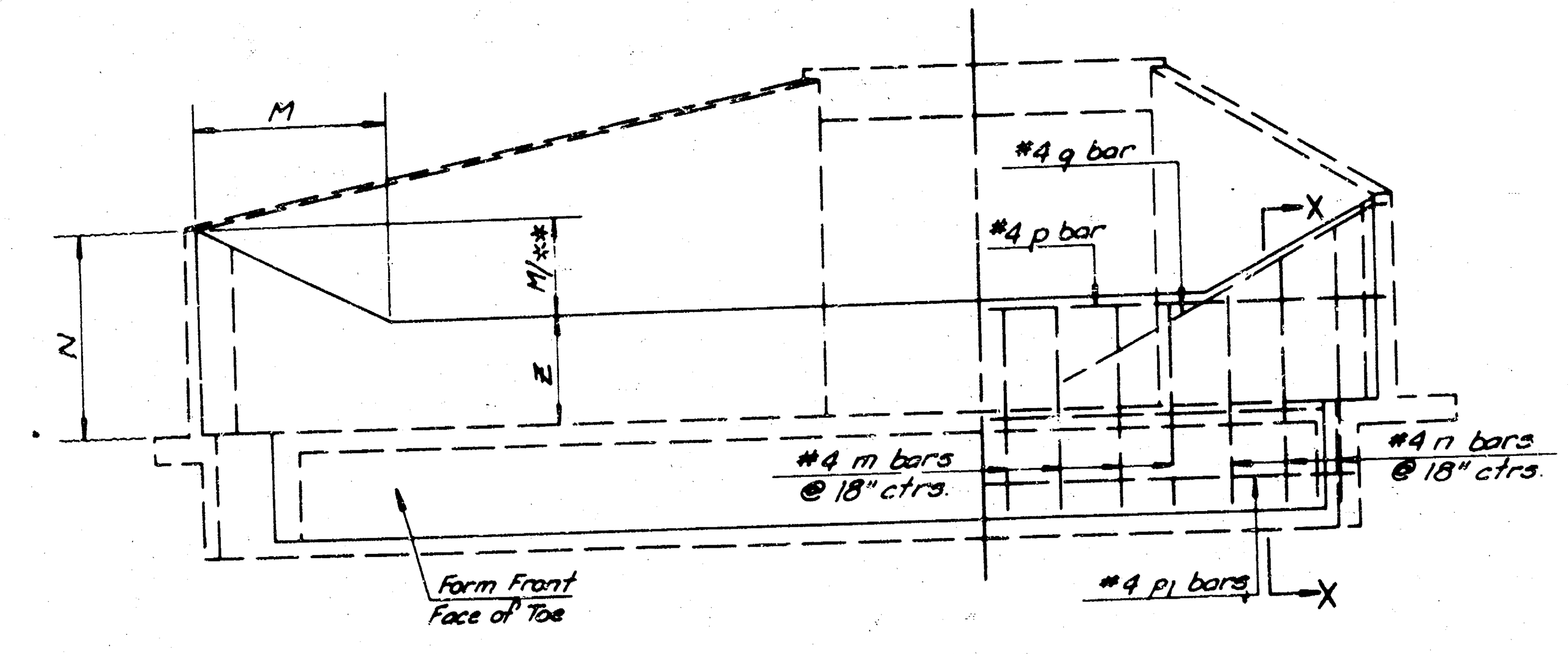
CITY OF WICHITA	Design KJS
WOODLAND ESTATES PAVING & INCIDENTAL DRAINAGE	Drawn by MJV
PROJECT NO. 472-76-245-81592-000-000-001	Checked by KJS
	Date NOV. 1986
	100 no
MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #800 WICHITA, KANSAS 67226 682-6561	Sheet 3 3/4 of 4

FHWA REGION NO	STATE	PROJECT NO	YEAR	SHEET NO	TOTAL SHEETS
7	KANSAS	472-76-245-81592-000-000-00	19		

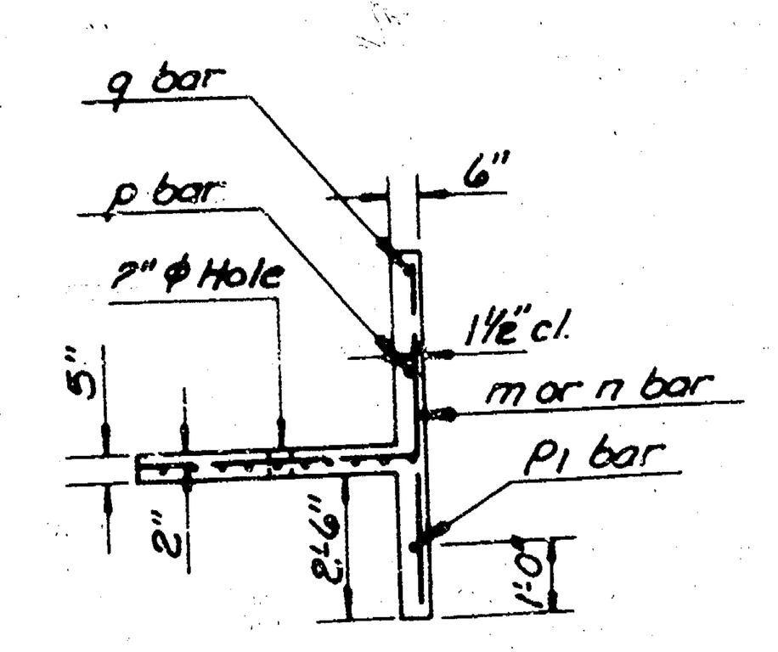
STATION 7+74.62				B = 10'-0"		Skew 20° Rt.		Z = 3'-0"	
Letter	M	N	P	Q_L	Q_S	K_L	K_S	L_L	L_S
Dimension	6'-0"	5'-0"	71'-5 1/8"	9'-6 5/8"	9'-4 1/2"	8 1/2"	4 1/4"	1'-8 7/8"	1'-2 5/8"



ELEVATION AND SECTION



ELEVATION AND SECTION



SECTION X-X

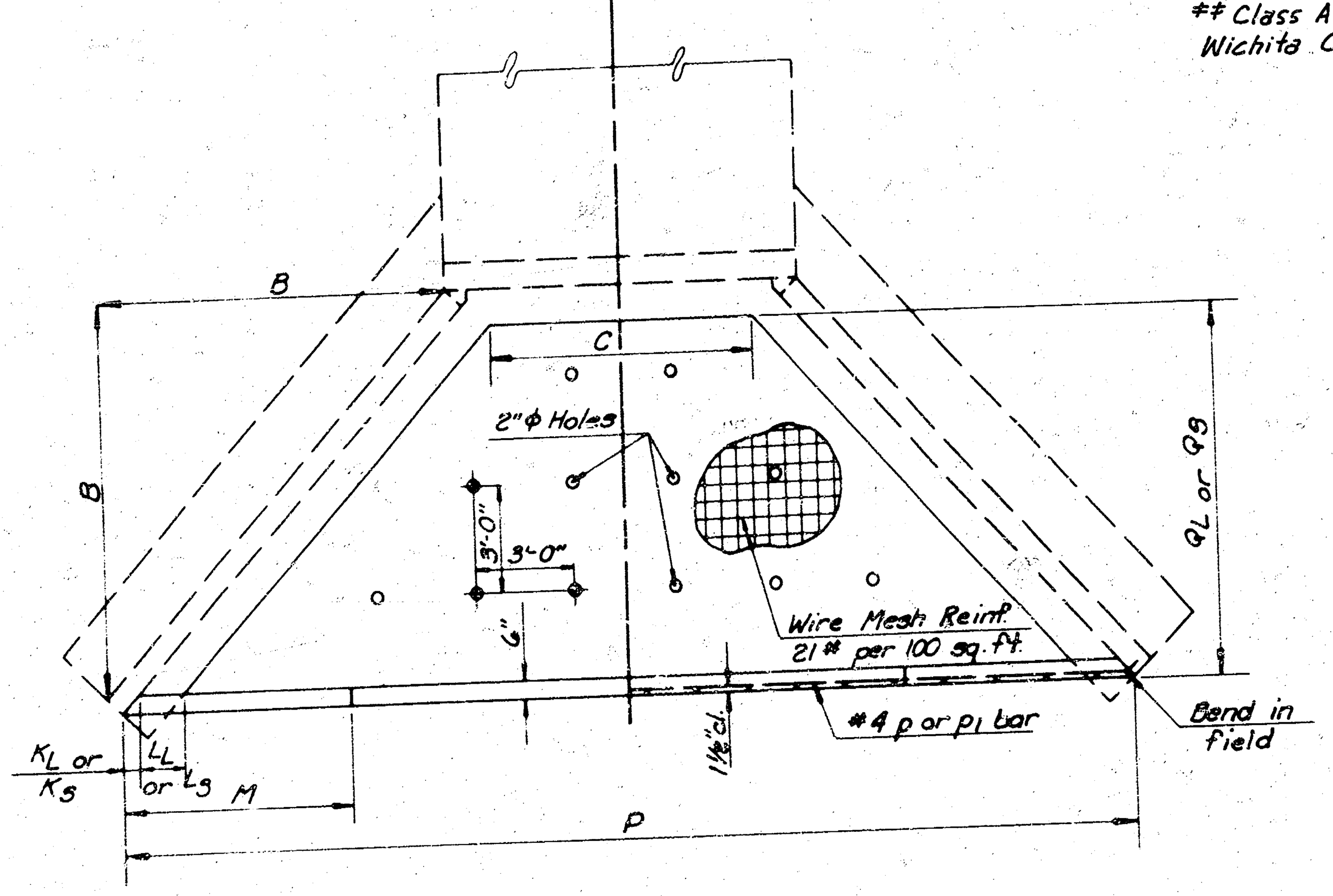
GENERAL NOTES

CONCRETE: Class A Concrete## shall be used throughout.
All exposed edges shall be finished with an edging tool.
REINFORCING: All dimensions are to ℄ of bar. Wire reinforcing mesh shall be electrically welded and shall be composed of No. W 1.4 wire at 6" centers each way.
~~Weight of reinforcing mesh shall be classified as pounds of reinforcing steel.~~

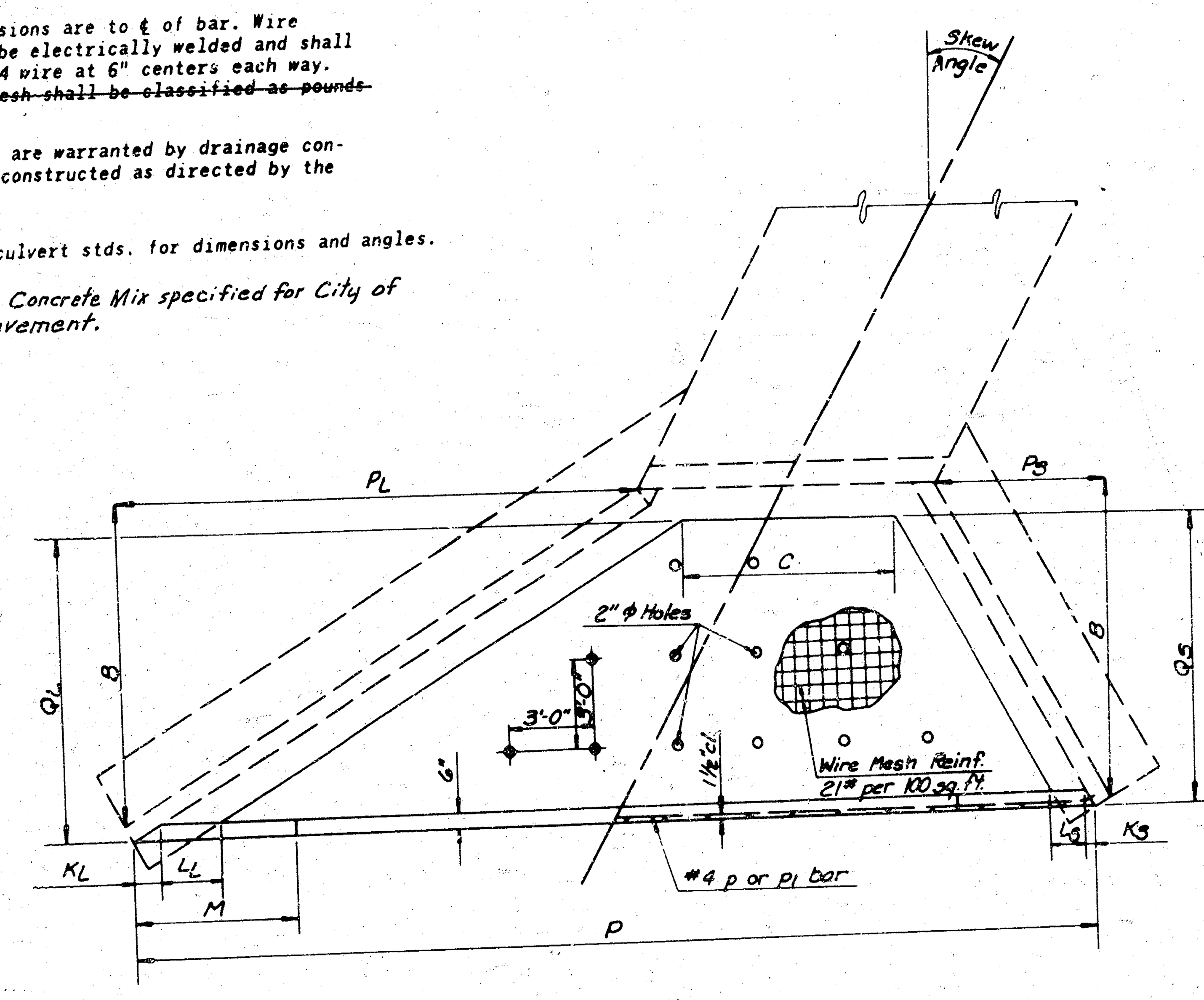
When holes in the apron are warranted by drainage conditions, they shall be constructed as directed by the Engineer.

Note: See appropriate culvert stds. for dimensions and angles.

Class A Concrete = Concrete Mix specified for City of Wichita Concrete Pavement.



PLAN



PLAN - SKEW

STATION				B/		Skew		Z =	
Letter	M	N	P	Q_L	Q_S	K_L	K_S	L_L	L_S
Dimension						Sq. ft. mesh			
Bar	m	n*	p	P_1	q	Cl. A Conc.			C.Y.
Number						Reinf. Steel			lbs.
Length									

STATION				B/		Skew		Z =	
Letter	M	N	P	Q_L	Q_S	K_L	K_S	L_L	L_S
Dimension						Sq. ft. mesh			
Bar	m	n*	p	P_1	q	Cl. A Conc.			C.Y.
Number						Reinf. Steel			lbs.
Length									

STATION				B/		Skew		Z =	
Letter	M	N	P	Q_L	Q_S	K_L	K_S	L_L	L_S
Dimension						Sq. ft. mesh			
Bar	m	n*	p	P_1	q	Cl. A Conc.			C.Y.
Number						Reinf. Steel			lbs.
Length									

STATION				B/		Skew		Z =	
Letter	M	N	P	Q_L	Q_S	K_L	K_S	L_L	L_S
Dimension						Sq. ft. mesh			
Bar	m	n*	p	P_1	q	Cl. A Conc.			C.Y.
Number						Reinf. Steel			lbs.
Length									

STATION				B/		Skew		Z =	
Letter	M	N	P	Q_L	Q_S	K_L	K_S	L_L	L_S
Dimension						Sq. ft. mesh			
Bar	m	n*	p	P_1	q	Cl. A Conc.			C.Y.
Number						Reinf. Steel			lbs.
Length									

STATION				B/		Skew		Z =	
Letter	M	N	P	Q_L	Q_S	K_L	K_S	L_L	L_S
Dimension						Sq. ft. mesh			
Bar	m	n*	p	P_1	q	Cl. A Conc.			C.Y.
Number						Reinf. Steel			lbs.
Length									

STATION				B/		Skew		Z =	
Letter	M	N	P	Q_L	Q_S	K_L	K_S	L_L	L_S
Dimension						Sq. ft. mesh			
Bar	m	n*	p	P_1	q	Cl. A Conc.			C.Y.
Number						Reinf. Steel			lbs.
Length									

Quantities include apron and soil saver quantities.

* n bars are variable, increase by increments of 7" for B/3.5 and 9" for B/3. Cut 2 each length.

LIST OF SOIL SAVERS

Station	Culvert Size	Side	Z	Skew
7+74.62	5-9'x5'	Lt.	3'-0"	20° Rt.

NO	DATE	REVISIONS	BY	APP'D
3				
2				
1				

DEPARTMENT OF TRANSPORTATION - KANSAS

SOIL SAVER FOR R.C. CULVERTS

4

4

~~STD. NO. 520.1~~

APP'D [signature] 12/6/'76

SHEET NO OF	SCALE	QUANTITIES	TRACED Bowser
DESIGNED Boynton	DETAILED Bowser	QUANTITIES	TRACED Bowser
DESIGN CK Wilkinson	DETAIL CK Hecht	QUAN CK	TRACE CK Hecht

4/4

14 2 5 8

NOTE: ALL REINFORCING BARS ARE NO. 4 BARS