NORTH CAROLINA STATE HIGHWAY

BI — AXIAL STRESS ANALYSIS

SHEET OF

E 70500

RUN #	FREE STYLE DESCRIPTION	PROJECT # include decimal	NAME (FIRST / LAST)	PHONE	WORK ORDER	PROGRAM
						E 7 0 5 0 0

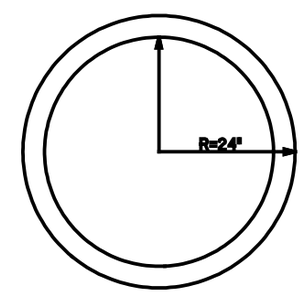
CARD #	K	J	CONCRETE CRUSHING STRENGTH	STEEL ALLOWABLE STRESS	n=Es/Ec in Tension Zone	r=Es/Ec in Compr. Zone
A						

K=0 Non-Circular Col., K = 1 Circ. Col. uniform steel, K = 2 Circ. Col. nonuniform steel.
J=0 Tied Column J = 1 Spiral Column, J = 2 No steel
"BAR-ON-X" = 1 For K = 1 and No Bar on X-axis, Else leave blank.
"PRINT DETS" = 1 If detailed stress output is desired, Else leave blank
"CONT-ROL" = 0 Follow AASHO specs., "CONT-ROL" = 1 Forcing cracked section
"CONT-ROL" = 2 Forcing uncracked sec., "CONT-ROL" = 3 Forcing both,
All units should be consistant in input use lbs. and inches.

CONCRETE COORDINATES

CARD #	1, 6, 11, 16 X / RADIUS CONC.	1, 6, 11, 16 Y	2, 7, 12, 17 X	2, 7, 12, 17 Y	3, 8, 13, 18 X	3, 8, 13, 18 Y	4, 9, 14, 19 X	4, 9, 14, 19 Y	5, 10, 15, 20 X	5, 10, 15, 20 Y	OPTIONAL # OF CIRCLE POINTS: (MAX 28)
B											

CARD B.... For Conc. radius only leave cols. 11 thru 73 blank.
CARD C.... For Steel radius only leave cols. 18 thru 38 blank.

STEEL COORDINATES

CARD #	AREA EACH BAR	X1 / STEEL RADIUS	Y1	X2	Y2	# OF BARS	BAR-ON-X
C