REINFORCED CONCRETE COLUMN DESIGN
GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF BRIDGE DESIGN

PORTLAND CEMENT ASSOCIATION

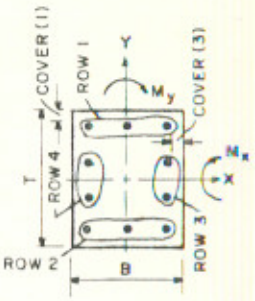
INPUT FORM FOR R.C. COLUMN DESIGN PROGRAM
ULTIMATE STRENGTH THEORY

IDENTIFICATION AND HEADING INFORMATION

1. PGM | PROB. NO. — 8 | 8

2. PROBLEM TYPE: D=DESIGN; I=INVESTIGATION
COLUMN TYPE: R=ROUND; S=SPIRAL; T=TIED
REQUIRED INPUT — OPTIONAL INPUT

3. | COLUMN SIZE: B in., T in. | STRESSES: f'_c ksi., f_y ksi. | CAPACITY REDUCTION FACTORS: ϕ_C, ϕ_B | DESIGN REINFORCEMENT: MIN. RATIO, MAX. RATIO, MIN. CLEAR SPACING | MODIFIABLE CONSTANTS: f_c ksi., E_c ksi., E_s ksi., ϵ_u in./in



4. R MODE | NO. OF BARS | BAR SIZE | COVER (IF SAME ALL AROUND) | ROW 1 OR LOWER LIMIT (1,2): NO., SIZE, COVER | ROW 2 OR UPPER LIMIT (1,2): NO., SIZE, COVER | ROW 3 OR LOWER LIMIT (3,4): NO., SIZE, COVER | ROW 4 OR UPPER LIMIT (3,4): NO., SIZE, COVER
← IF INVST. TIED RMODE 2.
← IF DESIGN.

IF INVST. RMODE 3, ENTER AREA AND LOCATION OF EACH BAR

A_i	X_i	Y_i	A_j	X_j	Y_j	A_k	X_k	Y_k	A_n	X_n	Y_n

5. L MODE | NO. OF CARDS | 10X ? | 10Y ?

AXIAL LOADS (P) IN KIPS, MOMENTS IN K-FT, RIGHT JUSTIFIED, NO DECIMAL POINT

6.

IF 1	NO. OF P_i's / CARD	P_i	P	P	P	P	P	P	P	P	P	P	P	P	P	P_n
IF 2	NO. OF GPS / CD	IP_i	FP_i	ΔP_i	IP_j	FP_j	ΔP_j	IP_k	FP_k	ΔP_k	IP_m	FP_m	ΔP_m	IP_n	FP_n	ΔP_n
IF 3	NO. OF LOADS/CD	P_i	MX_i	MY_i	P_j	MX_j	MY_j	P_k	MX_k	MY_k	P_m	MX_m	MY_m	P_n	MX_n	MY_n

7-22-74