

SIMPLE SPAN

PROG.		PROB. NO.		IDENTIFICATION												"CONT" TO CONTINUE REMARKS							
				PROJECT NO. 20			COUNTY 30			DATE 40			DESIGNER 50			ETC. 60			65		69		
* B.0.4																							
*																							

SPAN DATA

CODE	LIVE LOAD				SPAN LENGTH	DFM	DFV	DFD	NPL	WDLNC	WDLc	WSWK	E BEAM X 10 ⁶	WT. BM.	ALLOW. STRESS		WT. BM. MAT'L	TYPE STEEL
	TYPE	CLASS	T	L											M	STEEL		
1																		

1 = ANALYSIS (%) 1 = SKIP (T, L, M)
 BLANK = DESIGN (%)

CONCENTRATED LOADS (LIMIT 40)

	3	9	15	21	27	33	39	45	51
	X1	P1	X2	P2	X3	P3	X4	P4	
2 1									
2 2									
2 3									
2 4									

CODE: TYPE
 RB - ROLLED BEAM
 RP - ROLLED W/PLATE
 CB - COMPOSITE ROLLED
 PG - PLATE GIRDER
 CG - COMPOSITE GIRDER
 TB - CONCRETE BEAM

STEEL BEAM DATA

ROLLED BEAM				NON-STANDARD BEAM				PLATE GIRDER									
BEAM 1		BEAM 2		P	N	SECTION PROPERTIES				WEB		TOP FLANGE		BOTTOM FLANGE		CON. W	CON. T
DEPTH & WEIGHT	DEPTH & WEIGHT	I _o IN. ⁴	Y _{TOP}			Y _{BOT.}	DEPTH	THICK.	WIDTH	THICK.	WIDTH	THICK.	WIDTH	THICK.			
3	WF	WF															

COMPOSITE SLAB			SHEAR CONN.		BOTTOM COVER PLATE				TOP COVER PLATE			
EFFECTIVE WIDTH	THICK.	COPING	ΣZ _r	SU	X-BEG.	THICK.	WIDTH	LENGTH	X-BEG.	THICK.	WIDTH	LENGTH
4												

P = 1 DESIGN WITH \bar{e} 's
 N.P. = 1 DESIGN WITHOUT \bar{e} 's

CONCRETE BEAM DATA (T, RECT., FLAT SLAB)

"N"		NO. ROWS	BEAM (WEB) IN.				'T' SLAB		COMPRESSION ST.		ROW ONE		ROW TWO	
TEN.	COM.		WIDTH	ΔW	DEPTH	ΔD	WIDTH	THICK.	NO.	SIZE Δ	DIST.	NO.	SIZE Δ	DIST.
3														

ROW THREE			ROW FOUR			ROW FIVE			ROW SIX			ROW SEVEN			ROW EIGHT			ROW NINE		
NO.	SIZE Δ	DIST.	NO.	SIZE Δ	DIST.	NO.	SIZE Δ	DIST.	NO.	SIZE Δ	DIST.	NO.	SIZE Δ	DIST.	NO.	SIZE Δ	DIST.	NO.	SIZE Δ	DIST.
4																				

LENGTH - FT.	COPING - IN.	DIMENSIONS	WEIGHT - LBS.
WDLNC - K/FT.	AL. STRESS - K.S.I.	P _n - KIPS.	Y _{TOP} - IN.
WDLc - K/FT.	WT. BM. MAT'L. - PCF	TYPE STEEL - 572, 588	ΣZ _r - K/ROW
WT. BM. - K/FT.	WSWK - K/FT.	DEPTH - IN.	X-BEG. - FT.
	X _n - FT.	THICK. - IN.	WIDTH - IN.
			Y _{BOT.} - IN.
			SU - K/EA.
			SIZE - BAR SIZE (#4, #10, etc.)
			Δ - INCREMENT (NO. OF BARS)
			DIST. - IN.