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Structural Behavior of a Skew Two Span Reinforced Concrete Box Girder Bridge Model, VOL. IV -- Detailed Tables of Experimental and Analytical Results

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STRUCTURAL BEHAVIOR OF A SKEW TWO SPAN  
REINFORCED CONCRETE BOX GIRDER BRIDGE MODEL

VOL. IV - DETAILED TABLES OF EXPERIMENTAL AND ANALYTICAL RESULTS

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College of Engineering  
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June 1980

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ABSTRACT

This is the fourth of a four volume sequence as follows:

Vol. I - Design, Construction, Instrumentation and Loading; Vol. II - Reduction, Analysis and Interpretation of Results; Vol. III - Response during Ultimate Loading to Failure; and Vol. IV - Detailed Tables of Experimental and Analytical Results. In the present volume detailed tables of experimental and analytical results obtained in a study of a large scale, skew, two span, four cell, reinforced concrete box girder bridge model are presented. Results in terms of reactions, deflections, strains and moments are given. The responses of the bridge to point loads, conditioning loads and truck loadings all at working stress levels are tabulated. In addition, tabulated results are given for conditioning loads at overstress levels and for point loads after conditioning overloads.

KEYWORDS

Skew box girder bridge; continuous box girder; reinforced concrete model; large scale model; experimental results; theoretical results; reactions, deflections; strains; moments; live loads; overloads.

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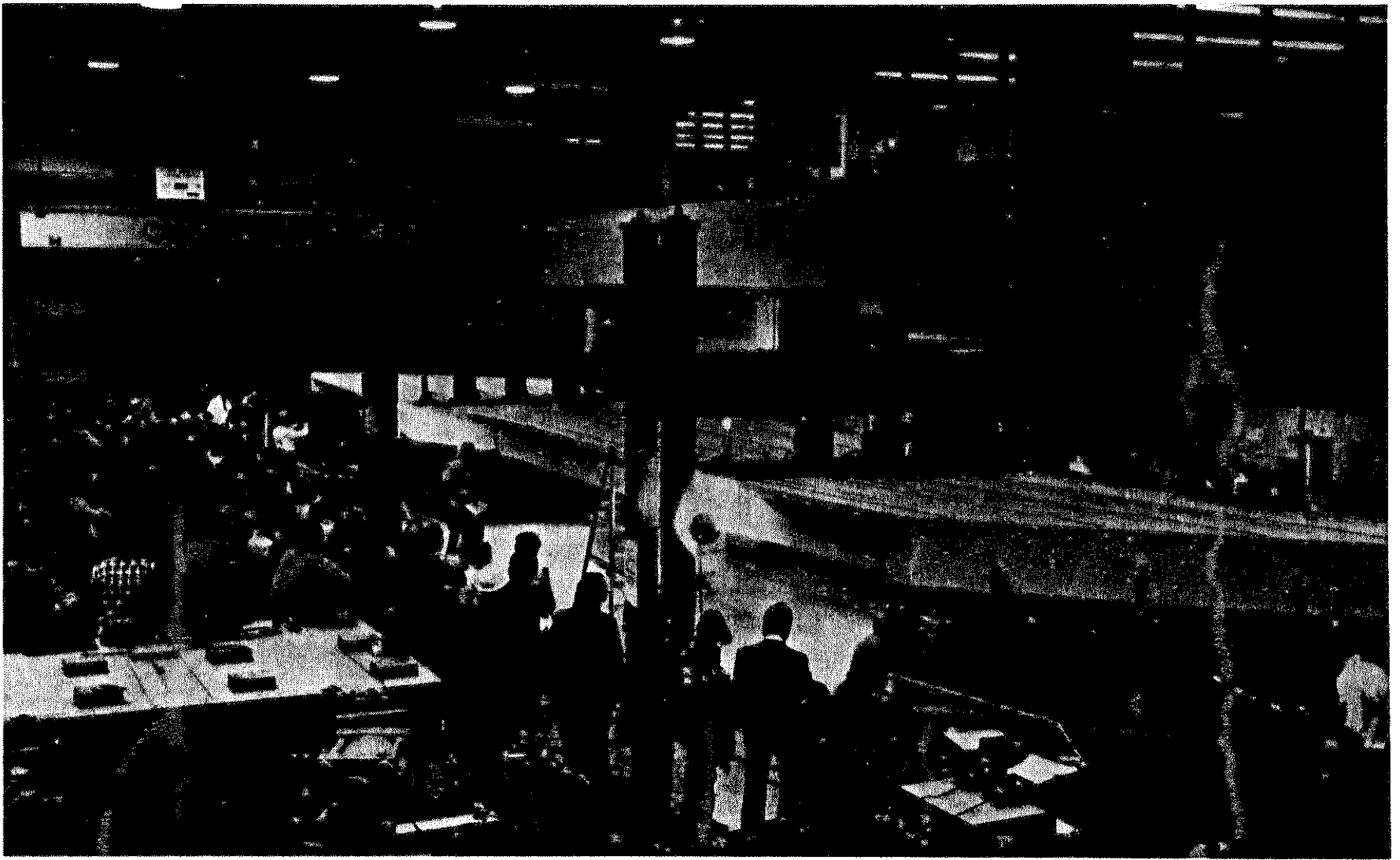
## 1. INTRODUCTION

### 1.1 Objective

The present volume is the fourth of a four volume sequence on the "Structural Behavior of a Skew Two Span Reinforced Concrete Box Girder Bridge Model". The material included in each volume is as follows:

- Vol. I - Design, Construction, Instrumentation and Loading
- Vol. II - Reduction, Analysis and Interpretation of Results
- Vol. III - Response during Ultimate Loading to Failure
- Vol. IV - Detailed Tables of Experimental and Analytical Results

These volumes deal with the complete experimental and analytical study of a 1:2.82 scale box girder bridge model (Fig. 1.1) built and tested in the Structural Engineering Laboratory of Davis Hall at the University of California, Berkeley. The model was 72 ft. (22 m) long along the longitudinal centerline, 12 ft. (3.66 m) wide and 1 ft. 8 9/16 in. (0.52 m) in depth, and had an angle of skew of 45°. Bridge model dimensions; location and amounts of reinforcing steel; instrumentation and loading used for the model have been described in detail in Vol. I. In Vol. II, the methods of analysis and computer programs used in obtaining theoretical results and in reducing experimental data are described; experimental and theoretical results are compared and discussed in detail; and conclusions and recommendations for implementation are presented. Volume III deals with the behavior and carrying capacity of the bridge during ultimate loading to failure. For easy reference in the present volume, Figs. 1.2 and 1.3 depict the general dimensions of



**FIG. 1.1 FINAL LOAD TEST ON SKEW BOX GIRDER BRIDGE MODEL**

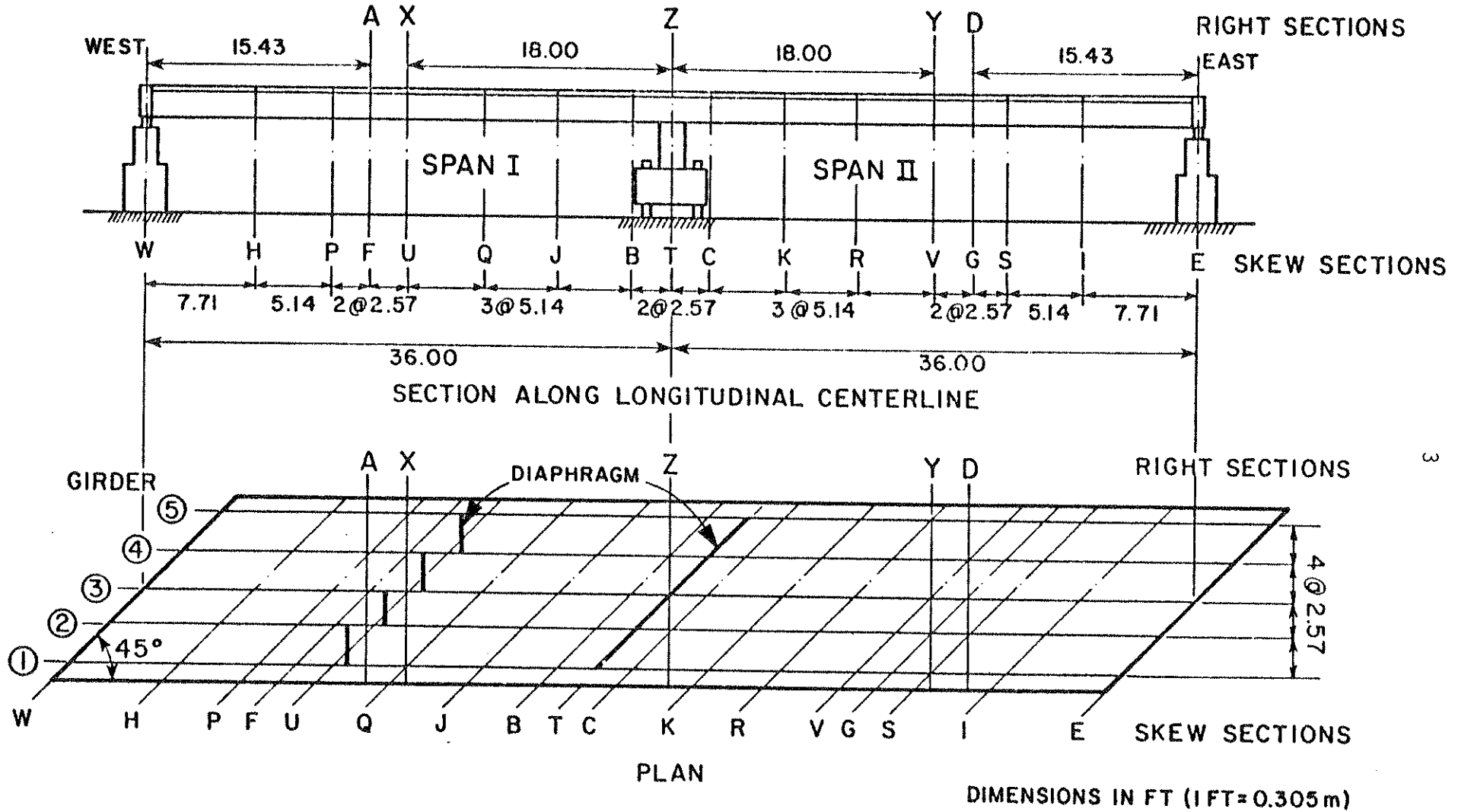


FIG. 1.2 DIMENSIONS OF BOX GIRDER BRIDGE MODEL WITH LOCATIONS OF TRANSVERSE SECTIONS AND LONGITUDINAL GIRDER LINES

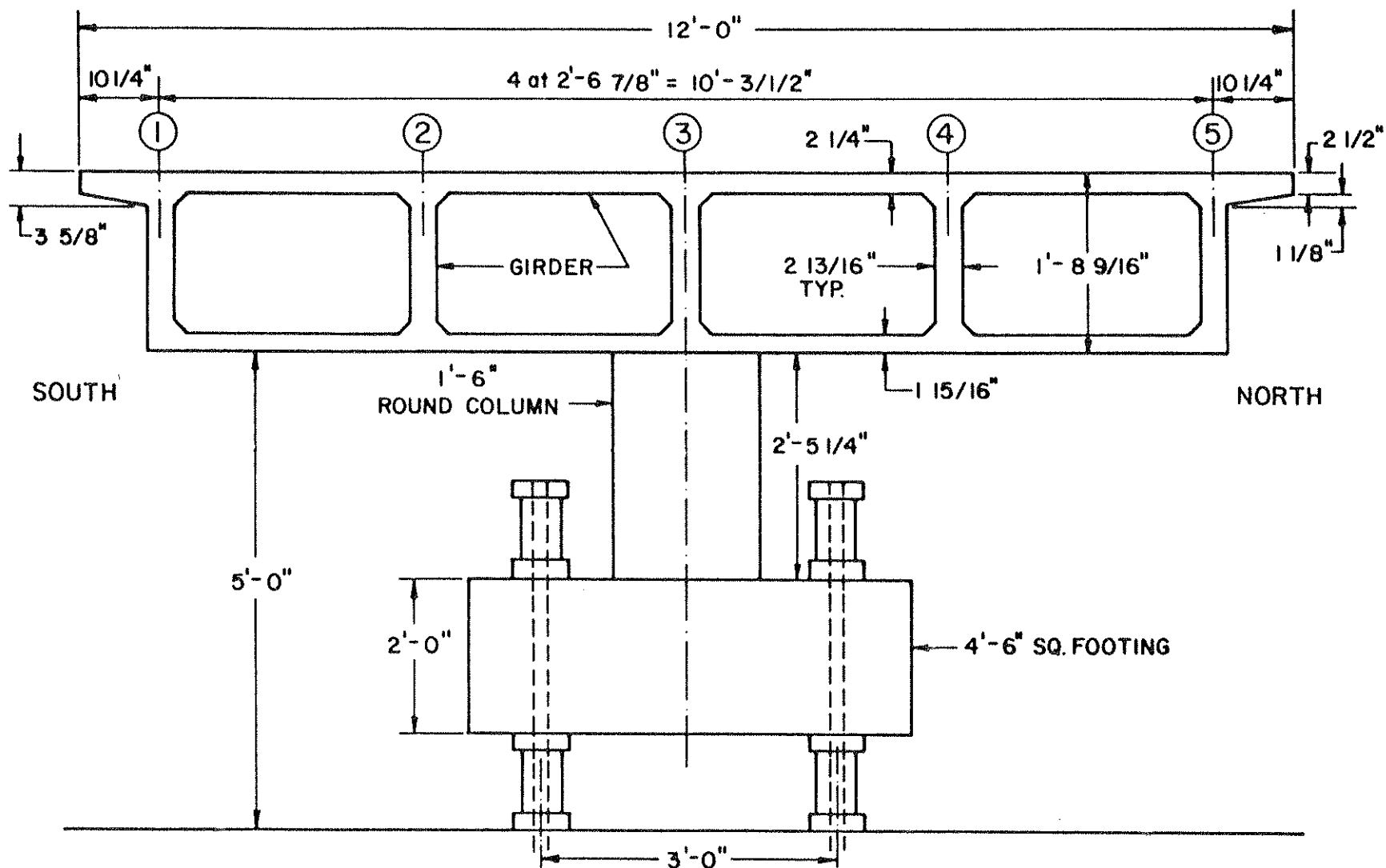


FIG. 1.3 TYPICAL SECTION OF BOX GIRDER BRIDGE MODEL

the model and the designation of transverse sections and longitudinal girder lines which are of pertinent interest.

### 1.2 Scope of Volume IV

The present volume contains the detailed tables of experimental and analytical results, many of which have been utilized in Vol. II in comparing and interpreting results under various loadings. Data for ultimate loading are given in Vol. III. The tables form a permanent and complete record of the basic results obtained during the research investigation. The responses of the bridge in terms of reactions, deflections, strains and moments are given.

In order that the tables may be easily interpreted and understood within the present volume by itself, Chapter 2 gives a description of the contents of the tables and the loadings considered in each case. A compact summary of the tables is presented in Section 2.6 for easy reference.

## 2. DESCRIPTION OF TABLES

### 2.1 General Remarks

The experimental results presented in the tables have been obtained by using a specially developed set of computer programs described in Chapter 4 of Vol. II to convert the raw experimental data to the desired results. The theoretical results presented in the tables in all cases have been obtained by using a finite element computer program, CELL, to analyze the bridge as an uncracked homogeneous structure. Details of the analysis by CELL are given in Chapter 3 of Vol. II.

In most cases the theoretical and experimental results presented in the tables have been normalized for purposes of comparison to loads of 100 kips (445 kN) per span. The only exceptions to this are the tables for truck loadings and construction vehicle loadings, in all of which, actual values rather than normalized values are given for the results. In most of the tables computations have been carried out and tabulated with a maximum of three significant figures. It should be recognized, however, that in some cases the number of significant figures should be even less.

For each loading case, described in the succeeding sections of this chapter, a set of 12 tables (A, B, C, D, E, F, G, H, I, J, K and L) are given in the Appendix. A brief description of the contents of each of these tables is given below.

#### A. Summary of Reactions

The individual reactions at each support point at the east (E), center (F), and west (W) supports are given. Applied loads at Section X

(PX), Section Y (PY) and total load (SUMP) are indicated. These may be compared with total reactions at the east (RE), center (RF), and west (RW) supports (obtained by summing individual reactions) as well as the overall total reaction (SUMR). The ratio (SUMR/SUMP) gives a measure of the vertical static check.

In addition to the vertical reactions, the longitudinal and torsional moment reactions at the two end supports (ME, TE and MW, TW) and the longitudinal and torsional moment reactions under the center footing (MF and TF) are tabulated. Because of the 45° skew angle of the bridge the longitudinal and torsional moment reactions ME, TE and MW, TW are equal in absolute value. Experimental values of these quantities are computed from the statical contributions of the individually measured vertical reactions. Theoretical values of ME, TE and MW, TW are computed in a similar manner, however, the total reactions under the center footing (RF, MR, TF) are output by the CELL program directly. These latter theoretical quantities are then used to calculate the four statically equivalent individual theoretical reactions under the center footing. Also, the total actual experimental load applied at Section X (ACTUAL PX) and at Section Y (ACTUAL PY) is given in this table as well as all other tables.

#### B. Summary of Deflections (Span I)

#### C. Summary of Deflections (Span II)

Deflections under each girder web are presented for 38 positions including the right midspan sections X and Y, the skew midspan sections U and V, skew sections J and K on opposite sides of the center bent, and

at the center bent skew section T. Deflections for locations on the other skew sections of interest, sections H, P, Q, R, S and I are also given. The ratio of experimental to theoretical deflections (E/T) gives a measure of the effect of cracking in the actual structure which is not taken into account in the theoretical analysis by CELL.

D. Summary of Strains at Section A

E. Summary of Strains at Section B

F. Summary of Strains at Section C

G. Summary of Strains at Section D

H. Summary of Strains at Sections H and F

I. Summary of Strains at Sections J and K

J. Summary of Strains at Sections G and I

Theoretical strains are computed as described in Chapter 3 of Vol. II. Measured experimental strains are values obtained directly from the test. Adjusted experimental strains are computed as described in Chapter 4 of Vol. II. Normalized and actual values of the applied loads at Sections X and Y (PX and PY), are shown at the bottom of the page. Thus actual strains, if desired, can be obtained by multiplying the normalized strain values tabulated, by the ratio of actual P divided by normalized P.

K. Distribution to Each Girder (Moments about Compression Flange  
Mid-depth)



Distribution of Moments to Each Girder (Moments about Tension Flange Steel)

L. Distribution of Moments to Each Girder (Moments about Gross Section Neutral Axis)

Distribution of Moments to Each Girder (Moments about Individual Girder Neutral Axis)

In each of these tables, the internal moments taken by each of the five girders and the total internal moment equal to the sum of these is calculated about the axes indicated for sections A and D. Computation of these moments and the percentages of total moment at a section taken by each girder are automatically calculated by a postprocessing program for theoretical values from CELL and by MOMENT for experimental values (see Chapter 3 and 4 of Vol. II for details).

The actual box girder bridge is first considered divided into five individual girders consisting of a web and top and bottom flanges. The flanges for the interior girders are taken equal in width to the distance between the midpoint of the cells on adjacent sides of the web. For the exterior girders, on the exterior side of the web the top flange consists of the cantilever overhang and no bottom flange exists on the exterior side of the web.

The girder moment at any section taken by an individual girder is found by integrating the internal longitudinal stresses over the proper slab and web areas to obtain forces and then multiplying these forces by their respective lever arms to the defined horizontal reference axis. As discussed in Chapter 4 of Vol. II, it was observed in reducing the experimental data for the various load cases, that the longitudinal compressive and tensile forces at a section as obtained from the MOMENT

program did not balance as statics would require. This indicated that the moduli of elasticity of the concrete and steel used in converting strains to stresses and thence to forces were not representative of the true stiffnesses needed for these conversions.

In order to see if the experimental data was consistent, the unmodified internal forces at Sections A and D were calculated from the internal strains and the control specimen moduli of elasticity given for the concrete and steel in Tables 6.5 and 6.9 of Vol. I respectively. These experimental forces in the tension and compression flanges are given in Cols. (3) to (6) of Tables 2.1, 2.2, and 2.3 for all conditioning loads and for point load cases 1X, 1Y, 1X+1Y, 3X, 3Y, 3X+3Y, 5X, 5Y, 5X+5Y, applied after the 24, 30, 40, 50 and 60 ksi conditioning loads. All values have been normalized to a 100 kip load in the loaded span. A study of these values indicates a general consistency of the experimental data for all load cases and load levels. It can be seen that both at Sections A and D the compression force is generally higher than the tension force. It can also be observed that there is a general increase in the magnitude of the forces at or after increasing conditioning load levels. The differences described above can be attributed to the participation of the concrete between cracks carrying some of the tensile force as well as the steel and the changing position of the neutral axis and moment lever arm under different loadings. See Chapter 4 of Vol. II for further discussion of these reasons.

Because of the difference in the experimental tensile and compressive forces at a section, it was decided to modify these forces to ensure as much as possible that equilibrium was satisfied at the instrumented Sections A and D. Using the measured reactions and the applied

TABLE 2.1 SUMMARY OF EXPERIMENTAL FORCES (KIPS) AT A SECTION OBTAINED FROM INTERNAL STRAIN READINGS AND ALSO FROM THE EXTERNAL MOMENT DIVIDED BY A LEVER ARM OF 1.483 FT.

LOAD CASE	AT OR AFTER COND. LOAD (ksi)	UNMODIFIED FORCES AT A SECTION OBTAINED FROM INT. STRAIN READINGS IN TOP OR BOTT. FLANGES				FORCES AT SECTION ( $T_E = C_E$ ) IN TOP AND BOTT. FLANGES FROM EXT. MOM. $\div$ 1.483 FT.	
		TENSION FL. - STEEL (T)		COMP. FL. - CONC. & ST. (C)		SECTION A	SECTION D
		BOTTOM SEC. A	BOTTOM SEC. D	TOP SEC. A	TOP SEC. D		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
COND. LOAD	24	231	230	-339	-259	307	299
	30	273	255	-369	-276	315	307
	40	292	253	-423	-308	312	290
	50	291	260	-394	-298	311	300
	60	293	267	-384	-298	310	308
1X	24	362	-111	-553	150	436	-152
	30	358	-90	-554	127	471	-146
	40	377	-100	-624	138	469	-146
	50	370	-96	-633	140	471	-137
	60	362	-90	-636	140	460	-138
1Y	24	-43	256	48	-249	-43	281
	30	-48	272	48	-242	-43	286
	40	-54	287	53	-261	-40	285
	50	-51	290	61	-267	-45	284
	60	-51	288	61	-261	-46	288
1X+1Y	24	309	153	-504	-122	428	140
	30	325	173	-505	-129	421	152
	40	338	189	-564	-140	415	142
	50	335	185	-577	-134	424	140
	60	330	196	-588	-145	418	153

1 KIP = 4.448 kN  
1 FT = 0.305 m

TABLE 2.2 SUMMARY OF EXPERIMENTAL FORCES (KIPS) AT A SECTION OBTAINED FROM INTERNAL STRAIN READINGS AND ALSO FROM THE EXTERNAL MOMENT DIVIDED BY A LEVER ARM OF 1.483 FT.

LOAD CASE	AT OR AFTER COND. LOAD (ksi)	UNMODIFIED FORCES AT A SECTION OBTAINED FROM INT. STRAIN READINGS IN TOP OR BOTT. FLANGES				FORCES AT SECTION ( $T_E = C_E$ ) IN TOP AND BOTT. FLANGES FROM EXT. MOM. $\div$ 1.483 FT.	
		TENSION FL. - STEEL (T)		COMP. FL. - CONC. & ST. (C)		SECTION A	SECTION D
		BOTTOM SEC. A	BOTTOM SEC. D	TOP SEC. A	TOP SEC. D		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
3X	24	301	-62	-460	82	392	-87
	30	318	-63	-453	83	386	-91
	40	341	-65	-505	92	387	-91
	50	346	-66	-517	97	385	-92
	60	343	-62	-527	95	376	-92
3Y	24	-59	304	115	-324	85	385
	30	-61	310	114	-326	83	381
	40	-66	325	122	-364	84	380
	50	-66	337	128	-377	83	389
	60	-65	334	126	-376	86	388
3X+3Y	24	232	240	-348	-248	307	303
	30	246	248	-350	-260	311	314
	40	268	258	-389	-278	307	304
	50	271	271	-402	-297	320	315
	60	270	269	-424	-294	312	310

1 KIP = 4.448 kN  
1 FT = 0.305 m

TABLE 2.3 SUMMARY OF EXPERIMENTAL FORCES (KIPS) AT A SECTION OBTAINED FROM INTERNAL STRAIN READINGS AND ALSO FROM THE EXTERNAL MOMENT DIVIDED BY A LEVER ARM OF 1.483 FT.

LOAD CASE	AT OR AFTER COND. LOAD (ksi)	UNMODIFIED FORCES AT A SECTION OBTAINED FROM INT. STRAIN READINGS IN TOP OR BOTT. FLANGES				FORCES AT SECTION ( $T_E = C_E$ ) IN TOP AND BOTT. FLANGES FROM EXT. MOM. $\div$ 1.483 FT.	
		TENSION FL. - STEEL (T)		COMP. FL. - CONC. & ST. (C)		SECTION A	SECTION D
		BOTTOM SEC. A	BOTTOM SEC. D	TOP SEC. A	TOP SEC. D		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
5X	24	225	-37	-308	31	312	-36
	30	253	-37	-306	36	290	-38
	40	282	-36	-324	46	291	-38
	50	297	-36	-327	52	292	-43
	60	287	-33	-340	55	284	-48
5Y	24	-76	335	175	-416	-138	475
	30	-79	350	180	-431	-129	480
	40	-81	356	198	-483	-129	486
	50	-86	360	203	-486	-126	477
	60	-83	351	199	-483	-127	470
5X+5Y	24	148	289	-203	-378	174	444
	30	168	302	-207	-381	178	438
	40	189	297	-137	-402	173	428
	50	213	317	-140	-424	175	441
	60	225	321	-156	-431	180	435

1 KIP = 4.448 kN  
1 FT = 0.305 m

loads and their respective lever arms, an experimental external gross moment at Sections A and D was computed for each load case.

An assessment was next made of the internal moment arm, i. e. the distance between the two forces of the T-C couple. If the resultant tension and compression forces on a section are assumed to act at the mid-depths of the top or bottom flanges the internal moment arm is fixed at the known value of 1.539 ft. (0.47 m). Taking into account the contributions of the web concrete and steel, it could be concluded that the actual internal moment arm is less than 1.539 ft. (0.47 m) by a certain amount. As a representative example, the experimental internal moment arms for the 30 ksi conditioning load case were calculated at Sections A and D for the individual girders and the total section for moments about the compression flange mid-depth, about the tension flange steel and about the gross section neutral axis. The average of all the lever arms for this case was computed as 1.483 ft. (0.45 m) and this value was used as the internal lever arm for the entire section for all load cases.

The external moment at Sections A and D as calculated from the external reactions was then divided by 1.483 ft. (0.45 m) to obtain an equilibrating force (tension  $T_E$  equal to compression  $C_E$ ) for Sections A and D for each load case as shown in Cols. (7) and (8) of Tables 2.1 to 2.3.

Using the values given in Tables 2.1, 2.2 and 2.3 a set of "modification factors" was computed by dividing the section forces found from the external moment, Cols. (7) and (8), by the internal section forces found from the strains, Cols. (3) to (6). The results of these calculations are summarized in Tables 2.4, 2.5 and 2.6. Ideally these factors  $\alpha$  for the tensile forces or  $\beta$  for compressive forces at a

TABLE 2.4 SUMMARY OF MODIFICATION FACTORS FOR FORCES AND MOMENTS AT SECTIONS A AND D OBTAINED FROM EXPERIMENTAL AND EQUILIBRATING FORCES

LOAD CASE	AT OR AFTER COND. LOAD (ksi)	SECTION A			SECTION D		
		BOTT. FLANGE	TOP FLANGE	SECTION N.A.	BOTT. FLANGE	TOP FLANGE	SECTION N.A.
		$\alpha_A = T_E/T$	$\beta_A = C_E/C$	$\gamma_A$	$\alpha_D = T_E/T$	$\beta_D = C_E/C$	$\gamma_D$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
COND. LOAD	24	1.33	0.91	1.10	1.30	1.15	1.23
	30	1.15	0.85	0.99	1.20	1.11	1.16
	40	1.07	0.74	0.89	1.15	0.94	1.04
	50	1.07	0.79	0.92	1.15	1.01	1.08
	60	1.06	0.81	0.93	1.15	1.03	1.09
1X	24	1.20	0.79	0.97	1.37	1.01	1.18
	30	1.32	0.85	1.06	1.62	1.15	1.36
	40	1.24	0.75	0.95	1.46	1.06	1.25
	50	1.27	0.74	0.96	1.43	0.98	1.18
	60	1.27	0.72	0.94	1.53	0.99	1.22
1Y	24	1.00	0.90	0.95	1.10	1.13	1.11
	30	0.90	0.90	0.90	1.05	1.18	1.11
	40	0.74	0.75	0.74	0.99	1.09	1.03
	50	0.88	0.74	0.81	0.98	1.06	1.02
	60	0.90	0.75	0.82	1.00	1.10	1.04
1X+1Y	24	1.39	0.85	1.07	0.92	1.15	1.01
	30	1.30	0.83	1.03	0.88	1.18	1.00
	40	1.23	0.74	0.95	0.75	1.01	0.85
	50	1.27	0.73	0.95	0.76	1.04	0.87
	60	1.27	0.71	0.93	0.78	1.06	0.89

TABLE 2.5 SUMMARY OF MODIFICATION FACTORS FOR FORCES AND MOMENTS AT SECTIONS A AND D OBTAINED FROM EXPERIMENTAL AND EQUILIBRATING FORCES

LOAD CASE	AT OR AFTER COND. LOAD (ksi)	SECTION A			SECTION D		
		BOTT. FLANGE	TOP FLANGE	SECTION N.A.	BOTT. FLANGE	TOP FLANGE	SECTION N.A.
		$\alpha_A = T_E/T$	$\beta_A = C_E/C$	$\gamma_A$	$\alpha_D = T_E/T$	$\beta_D = C_E/C$	$\gamma_D$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
3X	24	1.30	0.85	1.05	1.40	1.06	1.22
	30	1.21	0.85	1.01	1.44	1.10	1.26
	40	1.13	0.77	0.96	1.40	0.99	1.18
	50	1.11	0.74	0.90	1.39	0.95	1.15
	60	1.10	0.71	0.88	1.48	0.97	1.19
3Y	24	1.44	0.74	1.00	1.27	1.19	1.23
	30	1.36	0.73	0.98	1.23	1.17	1.20
	40	1.27	0.69	0.92	1.17	1.04	1.11
	50	1.26	0.65	0.88	1.15	1.03	1.09
	60	1.32	0.68	0.92	1.16	1.03	1.10
3X+3Y	24	1.32	0.88	1.07	1.26	1.22	1.24
	30	1.26	0.89	1.06	1.27	1.21	1.24
	40	1.15	0.79	0.95	1.18	1.09	1.14
	50	1.18	0.80	0.97	1.16	1.06	1.11
	60	1.16	0.74	0.92	1.15	1.05	1.10



TABLE 2.6 SUMMARY OF MODIFICATION FACTORS FOR FORCES AND MOMENTS AT SECTIONS A AND D OBTAINED FROM EXPERIMENTAL AND EQUILIBRATING FORCES

LOAD CASE	AT OR AFTER COND. LOAD (ksi)	SECTION A			SECTION D		
		BOTT. FLANGE	TOP FLANGE	SECTION N.A.	BOTT. FLANGE	TOP FLANGE	SECTION N.A.
		$\alpha_A = T_E/T$	$\beta_A = C_E/C$	$\gamma_A$	$\alpha_D = T_E/T$	$\beta_D = C_E/C$	$\gamma_D$
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
5X	24	1.39	1.01	1.19	0.97	1.16	1.05
	30	1.15	0.95	1.05	1.03	1.06	1.04
	40	1.03	0.90	0.97	1.06	0.83	0.94
	50	0.98	0.89	0.94	1.19	0.83	0.99
	60	0.76	0.84	0.90	1.45	0.87	1.11
5Y	24	1.82	0.79	1.14	1.42	1.14	1.28
	30	1.63	0.72	1.03	1.37	1.11	1.24
	40	1.59	0.65	0.96	1.37	1.01	1.18
	50	1.47	0.62	0.90	1.33	0.98	1.14
	60	1.53	0.64	0.94	1.34	0.97	1.14
5X+5Y	24	1.18	0.86	1.00	1.54	1.17	1.35
	30	1.06	0.86	0.96	1.45	1.15	1.30
	40	0.92	1.26	1.05	1.44	1.06	1.24
	50	0.82	1.25	0.97	1.39	1.04	1.20
	60	0.80	1.15	0.93	1.36	1.01	1.17

section would be the same for all load cases and load levels if the effective stiffness for converting the strains to stresses and thence to forces was a constant for each section force.

The process of force and moment modification may be explained as follows: Consider a section of the box girder where the experimentally measured compressive resultant  $C$  does not equal the experimentally measured tensile resultant  $T$ , as shown in Fig. 2.1.  $d_1$  and  $d_2$  are the distances of  $C$  and  $T$  from the gross cross-section neutral axis. The modification factors have been calculated by dividing the tensile equilibrating force  $T_e$  by the measured internal tensile force  $T$  and the compressive equilibrating force  $C_e$  by the measured internal compressive force  $C$ , where  $T_e = C_e$  has been derived by dividing the external moment at the section by the internal lever arm. Putting  $\frac{T_e}{T} = \alpha$  and  $\frac{C_e}{C} = \beta$ , it is observed that  $\alpha T = \beta C$ , i.e. the modification of the forces has resulted in the attainment of equilibrium on the section.

The modified moments can now be calculated by applying the factors  $\alpha$  and  $\beta$  to the unmodified experimental moment values. In order to obtain (at Sections A or D) the modified section moment about the compression flange mid-depth, the experimental moment is multiplied by the tension force modification factor  $\alpha$  for that section. Similarly, in order to obtain the modified section moment about the tension flange steel, the experimental moment is multiplied by the compression force modification factor  $\beta$  for that section. To modify the experimental moments calculated about the gross section neutral axis or the individual girder neutral axis (which are quite close to each other), a factor  $\gamma$ , intermediate between  $\alpha$  and  $\beta$  has to be derived because neither  $\alpha$

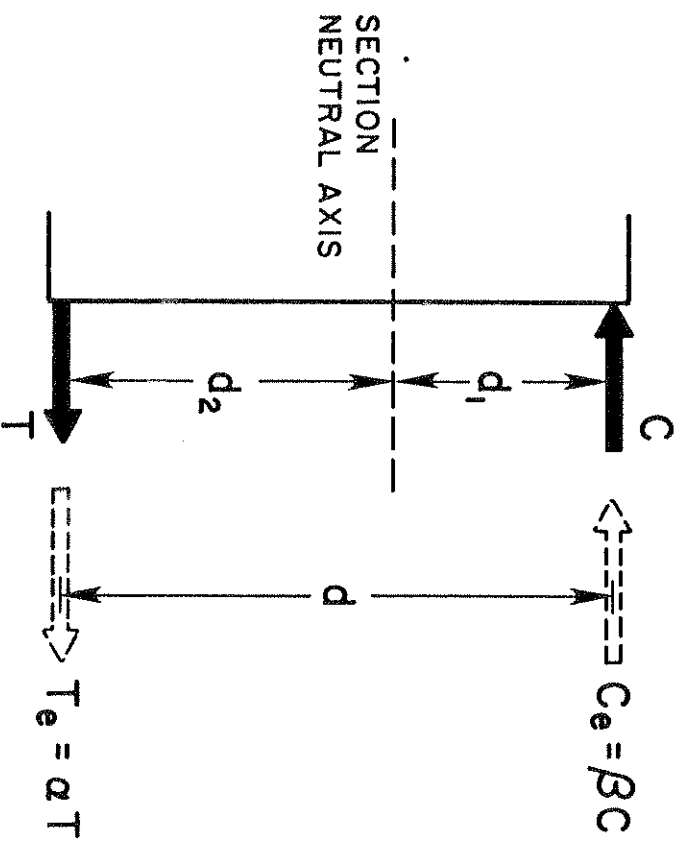


FIG. 2.1 MODIFICATION OF EXPERIMENTAL FORCES AND MOMENTS

nor  $\beta$  can be used directly. As the experimental moment is given from Fig. 2.1 by  $(Cd_1 + Td_2)$ , the factor  $\gamma$  should be such that  $\gamma(Cd_1 + Td_2)$  should give the same value as  $\alpha Td$  ( $= \beta Cd$ ). From this it can be shown that

$$\gamma = \frac{\beta d}{d_1 + \frac{\beta}{\alpha} d_2} = \frac{\alpha d}{d_2 + \frac{\alpha}{\beta} d_1} .$$

The  $\gamma$  factors at Sections A and D for all load cases were calculated using the above formula and are tabulated in col. (8) of Tables 2.4 to 2.6. Again ideally, these factors should be the same at a section for all load cases, however, it can be seen that some experimental variation exists.

After a careful study of the  $\alpha$ ,  $\beta$  and  $\gamma$  factors given in Tables 2.4 to 2.6, it was decided to limit the number of different modification factors to be used. For the 24, 30, 40, 50 and 60 ksi conditioning loads, the modification factors shown in Table 2.4 for each case were used to modify the experimental internal moments at the sections indicated, thus satisfying equilibrium for these load cases. For all other load cases, with exception of dead load, which is treated separately in Chapter 5 of Vol. II, the single set of modification factors obtained from the 30 ksi conditioning load were used. These other load cases (totaling to 144 cases) which have been described in Table 5.1 of Vol. I, included the point load combinations, designed to produce 24 to 30 ksi total stresses in the reinforcement, which were applied after each conditioning load, as well as the truck load combinations and the moving fork lift loads applied after the 30 ksi conditioning load. All results for experimental internal forces and moments at a section presented in Tables K and L of this volume have therefore been modified by these factors.

However, the experimental reactions, deflections, and strains presented in Tables A to J, of course, remain unchanged.

Since a single common set of modification factors was used for a large number of load cases, perfect equilibrium could not be expected for all these cases. By comparing the modification factors for various load cases in Tables 2.4, 2.5 and 2.6 with the 30 ksi conditioning load factors, the degree to which equilibrium is satisfied can be ascertained. In general, agreement in the loaded span is better than in the unloaded span for point load cases. For the latter, this is due to the fact that at the midspan sections the force reverses sign, indicating for example a closing of the crack in a previous tension zone. These effects can produce changes in the effective stiffness. The modification factor procedure adopted was a compromise, which it was felt gave a more realistic set of effective stiffnesses to be used in converting strains to internal section forces.

For the experimental results, four different horizontal reference axes were considered in calculating moments at a section. These results are given in Tables K and L. An axis at the compression flange mid-depth puts a greater weight on the experimental stresses measured in the tension steel while an axis at the tension flange steel does just the opposite and emphasizes the experimental stresses measured in the concrete. Axes at the gross-section neutral axis and the individual girder experimental neutral axes tend to weight both the measured steel and concrete stresses more equally. If no experimental discrepancies existed, values for all four reference axes should be relatively close. The differences would be due to the fact that each individual girder could have an axial force existing, thus giving different values for the girder moment depending

upon the axis about which moments are calculated. The total internal moment at the section should remain unchanged, however, since the total axial force on the section, which is equal to the sum of the individual girder axial forces, should be zero.

For the theoretical values, the tabulated moments in all cases (Tables K and L) were obtained from the CELL results using the same axis as the associated experimental results.

## 2.2 Point Loads on Girder Webs at Midspan (Working Stress)

As described in Vol. I the loading program was divided into several phases in which initial conditioning loads were applied to create total maximum tensile stresses in the reinforcement of 24, 30, 40, 50 and 60 ksi. Each of these initial conditioning loads was then followed by a detailed sequence of point loads on the bridge.

One of the prime objectives of the test program was to determine the bridge response at working stress levels. The loading phase involving the initial application of conditioning loads to produce a maximum tensile stress of 30 ksi was chosen to be representative of response at working stress from the point of view of assessing the actual box girder bridge behavior for design purposes. An advantage of using the 30 ksi stress level instead of the 24 ksi stress level was that 50% higher values of live load stresses could be registered for a total increase in the bridge model tensile stresses of only 6 ksi. All subsequent point loads in this phase, however, were chosen to produce maximum stresses, where applied, of the order of the working stresses, i.e. 24 to 30 ksi total maximum tensile stress in the reinforcement.

Because the 30 ksi stress level was chosen to be representative of the box girder bridge behavior for design purposes, a total of 19 point load combinations, 11 basic plus 8 additional point load combinations, were applied after the 30 ksi conditioning loads. However, only the 11 basic point load combinations were used after each of the 24, 40, 50 and 60 ksi conditioning loads. The 11 basic and 8 additional point load combinations are summarized for easy reference in Fig. 2.2.

As described in detail in Vol. I, most of the experimental program was carried out for the bridge model with what will hereafter be termed normal support restraints. These consisted of simply supported end abutments and the center bent supported by a single central column as shown in Figs. 1.1 and 1.2. However, in order to investigate the effect of torsional restraint at the center bent, the 11 basic point load cases were repeated for the 30 ksi working stress phase for this support condition.

Torsional restraint at the center bent was provided by adding vertical supports under girders 1 and 5 at the skew center Section T, as described in Section 5.3.1, Vol. I.

Detailed tabulations of theoretical and experimental results related to reactions, deflections, strains and moments for each of the 19 point load combinations with normal support restraints are given in Tables 1 to 7 inclusive in the Appendix. All theoretical and experimental values have been normalized for purposes of comparison to loads of 100 kips per span. Point loads for the torsional restraint cases comprise Tables 8 to 11 inclusive.

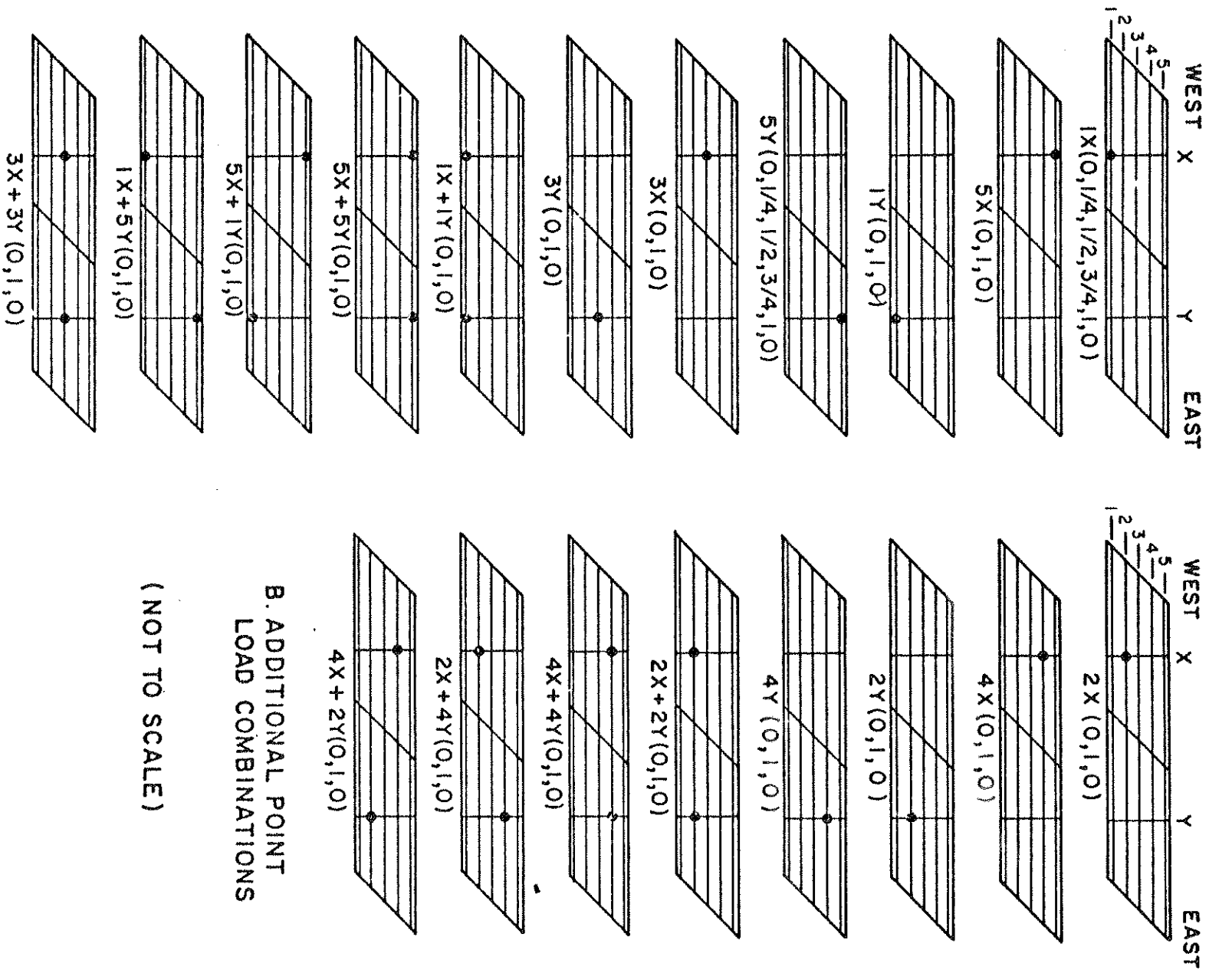


FIG. 2.2 BASIC AND ADDITIONAL POINT LOAD COMBINATIONS APPLIED AFTER CONDITIONING LOADS



### 2.3 Truck and Construction Vehicle Loads

As described in Vol. I, the model was loaded by scaled down versions of the standard AASHTO HS 20-44 truck [total load = 72 kips (320 kN)] and a proposed overload construction vehicle class II [total load = 330 kips (1468 kN)]. All linear dimensions were reduced by the scale factor 1:2.82 and details of wheel positions in the model vehicles can be found in Vol. I. Similarity required that the loads be reduced by a factor of 1:8 to produce the same stresses in the model as in the prototype. Thus for the model, the total load for each truck was 9.0 kips (40 kN) and for each construction vehicle was 41.25 kips (183 kN). Using these loads, a study could be made of the bridge response due to actual design truck live loads placed at various positions on the bridge.

Figures 2.3 and 2.4 show the positions and directions of the truck and construction vehicle loads on the bridge. As described in Vol. I, a total of 11 combinations of two lane truck loadings, 3 combinations of three lane truck loadings, and 8 combinations of construction vehicle loadings were used. Because each vehicle had six wheels and the front wheels had smaller loads than the rear wheels, exact symmetry of loading about the bridge longitudinal and transverse centerlines was not maintained, Figs. 2.3 and 2.4, because all trucks and construction vehicles were tested facing eastwards.

Detailed tabulations of all experimental results and some theoretical results related to reactions, deflections, strains and moments for these loadings are given in Tables 12 to 19 inclusive in the Appendix.

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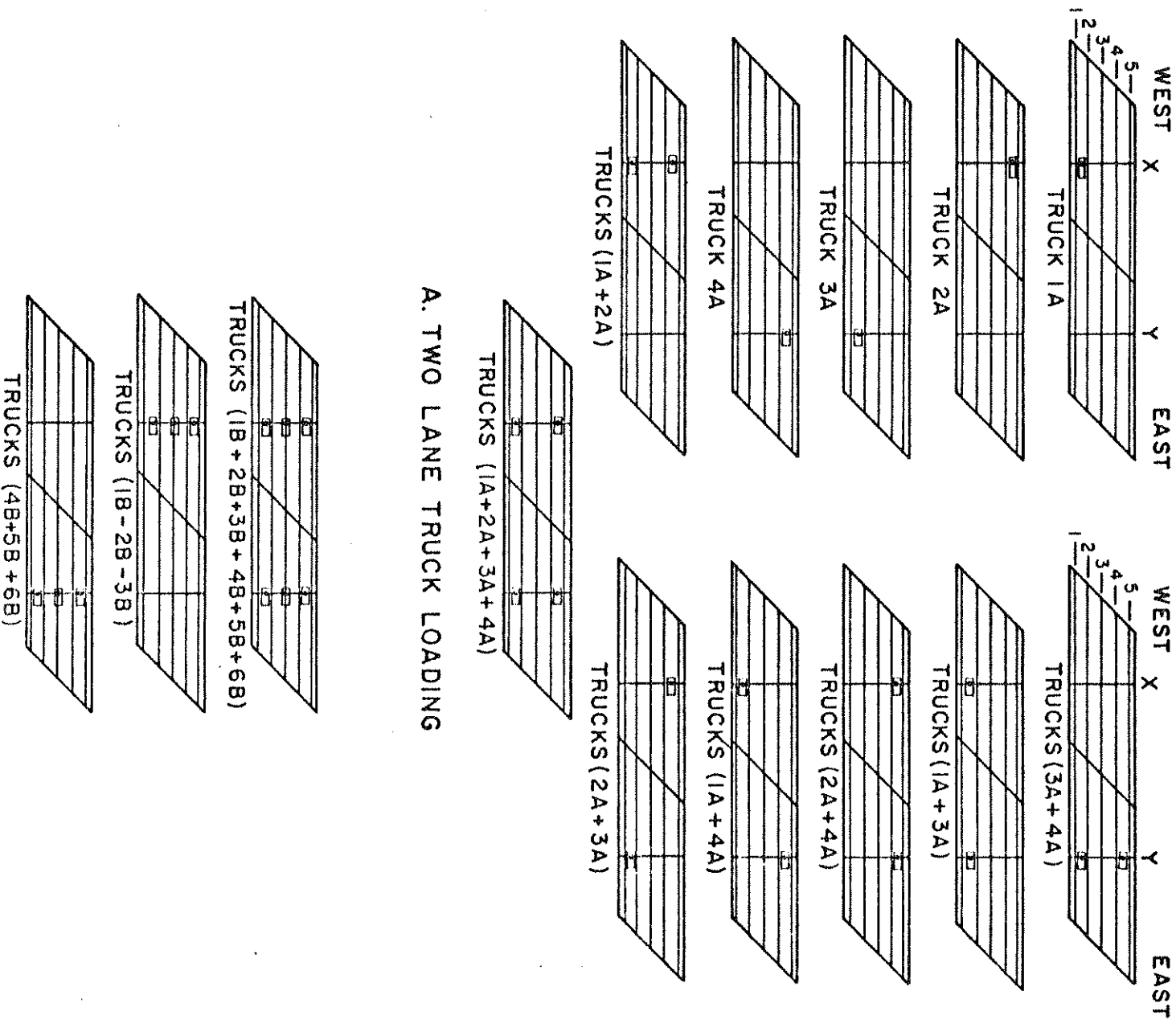
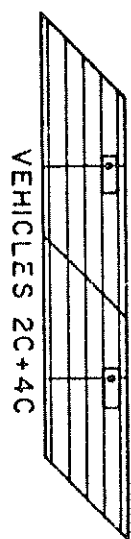
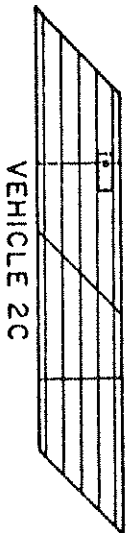
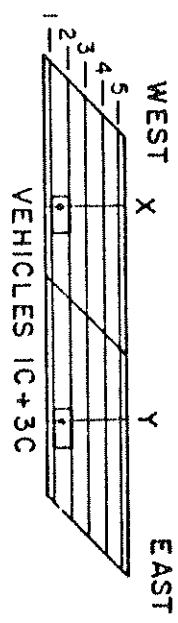
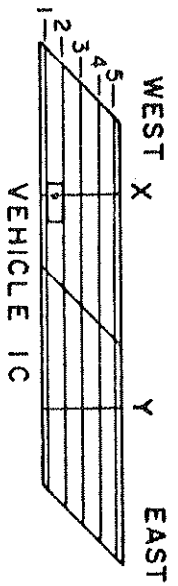
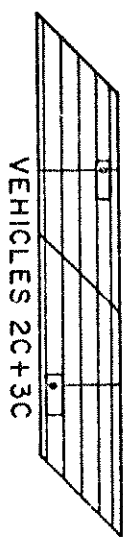
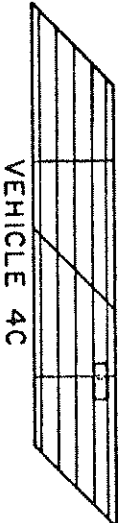
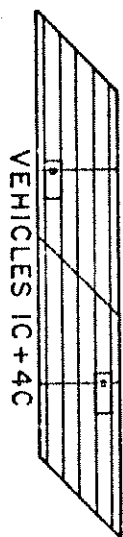


FIG. 2.3 TWO AND THREE LANE AASHTO TRUCK LOADINGS - 14 COMBINATIONS



(NOT TO SCALE)



ONE WHEEL-LINE OF EACH TRUCK  
IS PLACED ON AN EXTERIOR GIRDER

DIRECTION OF TRUCK

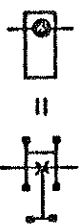


FIG. 2.4 CONSTRUCTION VEHICLE LOADINGS - 8 COMBINATIONS

## 2.4 Conditioning Loads

As described in Vol. I each loading phase was begun by applying initial conditioning loads to create a total maximum nominal tensile stress in the steel reinforcement of 24, 30, 40, 50 and 60 ksi. Each of these was then followed by a detailed sequence of 19 or 10 point load combinations having magnitudes chosen to produce total maximum stresses of the order of 24 to 30 ksi in the reinforcement.

Conditioning loads were obtained by applying equal loads over each of the five girders at both midspan Sections X and Y. Detailed tabulations of theoretical and experimental results related to reactions, deflections, strains and moments for each of the conditioning loads to bring the stress level up to 24, 30, 40, 50 and 60 ksi are given in Tables 20 and 21 in the Appendix. All theoretical values have been normalized for purposes of comparison to total loads of 100 kips (445 kN) per span.

## 2.5 Point Loads After Conditioning Overloads

Detailed tabulations of theoretical and experimental results related to reactions, deflections, strains and moments are given in Tables 26 to 37 for working stress nominal point loads of 19.3 kips (86 kN) designed to give a total maximum stress of 30 ksi in the reinforcement in each case, subsequent to the application of the conditioning overloads which brought the maximum stress level to 40, 50 and 60 ksi. All theoretical and experimental values have been normalized for purposes of comparison to total loads of 100 kips (445 kN) per span. For completeness, reactions, deflections, strains and moments are also given in Tables 22 to 25 for normalized nominal point loads of 12.7 kips (56 kN) applied after the 24 ksi conditioning load.

## 2.6 Summary of Tables

As a convenient reference, a compact summary of all the tables included in the Appendix is given in Tables 2.7, 2.8 and 2.9 which follow this section. Pages in the Appendix are numbered to correspond directly to the Table number, i.e., 1A, 1B, 1C, etc. for easy reference.

TABLE 2.7 SUMMARY OF TABLES FOR WORKING STRESS POINT LOADS AFTER 30 KSI CONDITIONING LOAD

STRESS LEVEL	SUPPORT RESTRAINT	LOAD CASE	TABLE	REACTION		DEFLECTION			STRAINS AT SECTION							MOMENTS ABOUT		
				A	B	SPAN I	SPAN II	A	B	C	D	H	J	G	CF	GNA		
WORKING STRESS OF 30 KSI	NORMAL	1X, 1Y, 1X+1Y	1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		2X, 2Y, 2X+2Y	2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		3X, 3Y, 3X+3Y	3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		4X, 4Y, 4X+4Y	4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		5X, 5Y, 5X+5Y	5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	TORSIONAL	1X+5Y, 5X+1Y	6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		2X+4Y, 4X+2Y	7	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1X, 1Y, 1X+1Y	8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		3X, 3Y, 3X+3Y	9	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		5X, 5Y, 5X+5Y	10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1X+5Y, 5X+1Y	11	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

- BOTH EXPERIMENTAL AND THEORETICAL RESULTS GIVEN
- CF COMPRESSION FLANGE
- TF TENSION FLANGE
- GNA UNCRACKED GROSS SECTION NEUTRAL AXIS
- ENA INDIVIDUAL GIRDER EXPERIMENTAL NEUTRAL AXIS

TABLE 2.8 SUMMARY OF TABLES FOR TWO LANE TRUCK LOADING, THREE LANE TRUCK LOADING AND CONSTRUCTION VEHICLE LOADING

STRESS LEVEL	SUPPORT RESTRAINT	LOAD CASE	TABLE	REACTION		DEFLECTION			STRAINS AT SECTION							MOMENTS ABOUT				
				A	B	SPAN I	SPAN II	A	B	C	D	H	I	G	CF	GNA				
															TF	ENA	L			
AFTER 30 KSI CONDITIONING LOAD	NORMAL	1A, 2A, 1A+2A	12	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		3A, 4A, 3A+4A	13	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		1A+3A, 2A+3A	14	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		1A+4A, 2A+4A	15	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		1A+2A+3A+4A	15	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		1B+2B+3B, 4B+5B+6B	16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1B+2B+3B +4B+5B+6B	16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1C, 3C, 1C+3C	17	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		2C, 4C, 2C+4C	18	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1C+4C, 2C+3C	19	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● BOTH EXPERIMENTAL AND THEORETICAL RESULTS GIVEN  
 CF COMPRESSION FLANGE  
 TF TENSION FLANGE  
 GNA UNCRACKED GROSS SECTION NEUTRAL AXIS  
 ENA INDIVIDUAL GIRDER EXPERIMENTAL NEUTRAL AXIS





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The contents of this report reflect the views of the authors who are responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification or regulation.

The planning, preparation, construction, supervision, testing, control, analysis and data reduction for a research project of the scope and size of the skew box girder bridge model of the present study necessitate the cooperative assistance and teamwork of all involved.

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R. M. Stephen, Principal Development Engineer, Structural Engineering and Structural Mechanics Division, actively participated in the preliminary planning, design, instrumentation and construction of the box girder bridge model, and deserves special thanks for his assistance and interest.

Of primary importance to the success of the project were the hard work and enthusiasm of the various Research Assistants, Students and Staff working for different periods on the research investigation.

Special acknowledgement should be given to F. Seible, Graduate Research Assistant, who participated in all phases of the research program

from its inception to the publication of the final reports. Noteworthy were his efficient handling of the CELL computer program for the production of analytical data, and his work on the beam element model.

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Last but not least, the visual appearance of this set of reports owes much to the skillful efforts of the Graphics staff composed of A. Klash, G. Feazel1 and A. Pertschuk, to the typing staff composed of J. Kono and E. Dwyer, and to the photographs produced by E. Caine.

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APPENDIX OF RESEARCH REPORTS AND TECHNICAL PAPERS

Research Reports and Technical Papers that have been published on the research on Box Girder Bridges carried out in the Division of Structural Engineering and Structural Mechanics, University of California, Berkeley are catalogued in this appendix under two headings: List A for Research Reports and List B for Technical Papers.

Almost all the research reports (List A) have been placed on file with the U. S. Department of Commerce and may be obtained on request for cost of reproduction by writing to the following address:

National Technical Information Service  
Operations Division  
Springfield, Virginia 22151

The accession number (shown in parentheses on reference List A) should be specified when ordering a particular report.



RESEARCH REPORTS AND TECHNICAL PAPERS PUBLISHED ON BOX GIRDER BRIDGE  
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5. Meyer, C., and Scordelis, A. C., "Computer Program for Prismatic Folded Plates with Plate and Beam Elements," Structural Engineering and Structural Mechanics Report No. SESM 70-3, University of California, Berkeley, February 1970 (PB 191 050).
6. Meyer, C., and Scordelis, A. C., "Analysis of Curved Folded Plate Structures," Structural Engineering and Structural Mechanics Report No. UC SESM 70-8, University of California, Berkeley, June 1970 (PB 193 535).
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12. Meyer, C., and Scordelis, A. C., "Computer Program for Non-Prismatic Folded Plates with Plate and Beam Elements," Structural Engineering and Structural Mechanics Report No. UC SESM 71-23, University of California, Berkeley, December 1971 (PB 220 197).
13. Lin, C. S., and Scordelis, A. C., "Computer Program for Bridges on Flexible Bents," Structural Engineering and Structural Mechanics Report No. UC SESM 71-24, University of California, Berkeley, December 1971 (PB 210 171).
14. Godden, W. G., and Aslam, M., "Model Studies of Skew Box Girder Bridges," Structural Engineering and Structural Mechanics Report No. UC SESM 71-26, University of California, Berkeley, December 1971 (PB 223 120).
15. Comartin, C. D., and Scordelis, A. C., "Analysis and Design of Skew Box Girder Bridges," Structural Engineering and Structural Mechanics Report No. UC SESM 72-14, University of California, Berkeley, December 1972 (PB 226 793).
16. Godden, W. G., and Aslam, M., "Model Studies of Curved Box Girder Bridges," Structural Engineering and Structural Mechanics Report No. UC SESM 73-5, University of California, Berkeley, March 1973 (PB 226 842/AS).
17. Scordelis, A. C., Bouwkamp, J. G., and Larsen, P. K., "Structural Behavior of a Curved Two Span Reinforced Concrete Box Girder Bridge Model, Volume I," Structural Engineering and Structural Mechanics Report No. UC SESM 74-5, University of California, Berkeley, September 1974 (PB 242 523/AS).
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B. Technical Papers

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APPENDIX

## Tables of Theoretical and Experimental Results

ERRATA NOTES FOR TABLES

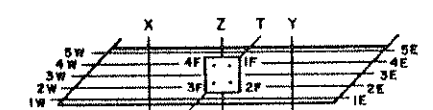
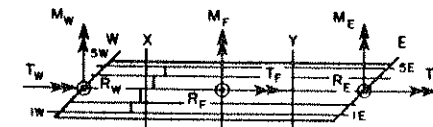
1. In all summary of deflection tables, B and C, deflections are positive upwards rather than downwards as indicated.

TABLE 1A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 30 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	IX		IY		IX+IY	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	13.66	13.66	54.07	53.51	67.73	65.58
2F	.52	.31	16.81	19.88	17.33	21.14
3F	-5.56	-4.61	-.83	-2.47	-6.38	-6.75
4F	-7.24	-9.47	-7.39	-11.37	-14.63	-21.30
5E	-6.82	-5.85	-9.99	-6.71	-16.80	-11.42
1F	-33.98	-36.69	16.00	19.56	-17.97	-18.61
2F	31.48	29.34	32.96	36.10	64.44	65.25
3F	70.44	79.80	11.88	12.35	82.32	93.34
4F	4.98	1.55	-5.07	-9.97	-.09	-7.71
1W	13.87	11.23	2.33	2.80	16.20	13.50
2W	16.62	17.18	1.57	.75	18.19	17.85
3W	14.91	19.10	.06	.25	14.97	19.15
4W	4.77	2.95	-3.15	-3.49	1.62	-1.98
5W	-17.66	-16.87	-9.26	-9.30	-26.92	-24.00
RE	-5.42	-5.95	52.67	52.84	47.25	47.24
RF	72.92	74.09	55.77	58.04	128.69	132.27
RW	32.50	33.59	-8.44	-8.68	24.06	24.52
SUMR	100.00	101.64	100.00	102.20	199.99	204.03
PX	-100.00	-100.00	0.	0.	-100.00	-99.50
PY	0.	.18	-100.00	-100.00	-100.00	-100.50
SUMP	-100.00	-99.82	-100.00	-100.00	-200.00	-200.00
SUMR/SUMP	1.00	1.02	1.00	1.02	1.00	1.02
TW=-MW	-192.64	-191.11	-71.74	-71.61	-264.37	-243.85
MF	116.87	133.05	-63.23	-79.92	53.64	59.48
TF	-196.37	-216.41	-50.87	-58.29	-247.24	-277.36
TE=-ME	-125.27	-125.48	-391.67	-390.06	-516.25	-505.13
ACTUAL PX		-19.32		-0.		-19.40
ACTUAL PY		.03		-19.17		-19.69



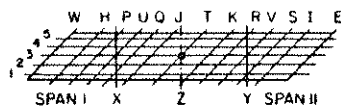
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 1 IN = 25.4 mm

TABLE 1B

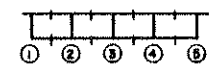
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1X			1Y			1X+1Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.735	-.931	1.27	.026	.058	2.19	-.709	-.981	1.24
3H	-.571	-.782	1.37	.053	.089	1.69	-.518	-.711	1.37
5H	-.274	-.393	1.43	.102	.167	1.64	-.172	-.245	1.43
1P	-1.113	-1.468	1.32	.053	.109	2.06	-1.060	-1.380	1.30
3P	-.784	-1.113	1.42	.091	.163	1.79	-.693	-.964	1.39
1X	-1.495	-2.098	1.40	.091	.162	1.78	-1.404	-1.977	1.41
2X	-1.102			.106			-.996		
3X	-.817	-1.152	1.41	.120	.207	1.73	-.697	-.972	1.39
4X	-.552			.134			-.419		
5X	-.307	-.512	1.67	.149	.231	1.55	-.158	-.264	1.67
1U	-1.371	-1.898	1.38	.077	.152	1.97	-1.294	-1.797	1.39
5U	-.200	-.368	1.84	.171	.268	1.57	-.029	-.104	3.64
3O	-.668	-.907	1.36	.129	.205	1.59	-.539	-.720	1.34
5O	.002	-.094		.158	.248	1.57	.160	.157	.98
1J	-1.258	-1.634	1.30	.085	.143	1.68	-1.174	-1.542	1.31
3J	-.413	-.540	1.31	.106	.157	1.48	-.306	-.386	1.26
5J	.239	-.066	-.28	.107	-.066	-.62	.346	-.040	-.12
1T	-.698	-.809	1.16	.007	.005	.71	-.691	-.809	1.17
2T	-.324			.005			-.320		
4T	.271			-.020			.251		
5T	.529	.561	1.06	-.044	-.087	1.98	.485	.497	1.03



**TABLE 1C**

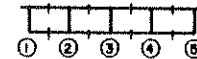
**SUMMARY OF DEFLECTIONS (INCHES)**

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

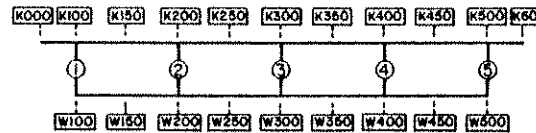
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	IX			IY			IX+IY		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.271	-.239	.88	-.229	-.294	1.28	-.500	-.533	1.07
3K	.258	.295	1.14	-.221	-.324	1.46	.037	-.006	-.17
5K	.651	.723	1.11	-.224	-.377	1.68	.427	.364	.85
1R	-.079	-.019	.24	-.440	-.609	1.36	-.528	-.622	1.18
3R	.343	.410	1.20	-.355	-.570	1.60	-.212	-.095	9.09
1Y	.091	.160	1.76	-.781	-1.142	1.46	-.690	-.950	1.38
2Y	.226			-.542			-.316		
3Y	.363	.415	1.14	-.402	-.617	1.53	-.040	-.171	4.30
4Y	.501			-.324			.177		
5Y	.645	.701	1.09	-.281	-.407	1.77	.364	.230	.66
1V	.040	.114	2.85	-.668	-.928	1.39	-.628	-.790	1.27
5V	.591	.643	1.11	-.271	-.516	1.90	.310	.168	.54
3S	.723	.368	1.14	-.345	-.571	1.66	-.022	-.168	7.70
5S	.466	.511	1.10	-.204	-.414	2.03	.261	.122	.47
1T	.082	.125	1.52	-.565	-.778	1.38	-.483	-.644	1.33
3I	.231	.271	1.17	-.210	-.371	1.77	.021	-.084	-3.93
5I	.308	.325	1.06	-.109	-.252	2.32	.199	.112	.57
LOAD PX	-100.0	-100.0		0.	0.		-100.0	-90.5	
LOAD PY	0.	.2		-100.0	-100.0		-100.0	-100.5	
ACTUAL PX		-10.3			0.			-19.4	
ACTUAL PY		.0			-10.2			-19.6	

TABLE 1D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

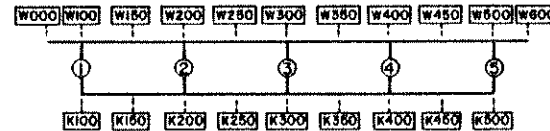
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-569	-1609	-626	43	315	73	-526	-1544	-591
K	K100	-501	-636	-667	38	74	79	-462	-599	-623
K	K150	-461	-553	-527	31	78	54	-430	-499	-483
K	K200	-456	-439	-439	30	28	33	-426	-406	-400
K	K250	-431	-403	-424	32	28	26	-399	-374	-392
K	K300	-438	-445	-408	34	53	25	-404	-397	-378
K	K350	-385	-336	-357	34	18	23	-350	-310	-324
K	K400	-356	-341	-310	35	42	22	-320	-297	-275
K	K450	-337	-310	-331	36	25	27	-301	-276	-296
K	K500	-393	-346	-331	43	29	29	-349	-310	-295
K	K600	-467	-82	-82	51	7	7	-416	-57	-57
W	W100	1130	1599	1619	-86	-157	-153	1044	1506	1550
W	W150	1470	1236	1319	-96	-124	-145	1373	1147	1235
W	W200	1608	1505	1495	-106	-103	-113	1501	1459	1431
W	W250	1564	1024	1231	-118	-254	-142	1446	909	1110
W	W300	1622	1474	1464	-131	-200	-199	1490	1337	1330
W	W350	1429	921	915	-133	-141	-129	1296	809	805
W	W400	1324	1066	1071	-136	-200	-198	1188	899	914
W	W450	1131	869	941	-124	-184	-177	1006	693	816
W	W500	1014	419	465	-115	-119	-115	899	317	366
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD	PY (KIPS)	0.	.2		-100.0	-100.0		-100.0	-100.5	
ACTUAL	PX (KIPS)		-19.3			0.			-19.4	
ACTUAL	PY (KIPS)		.0			-19.2			-19.6	

**TABLE 1E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

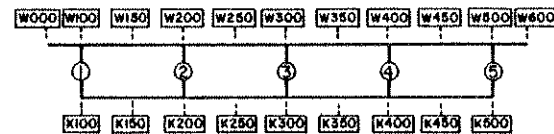
		NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	64	341	430	374	330	286	438	698	761
W	W100	64	439	437	374	286	282	438	761	754
W	W150	80	269	274	324	195	193	405	497	499
W	W200	166	320	328	337	222	224	503	555	554
W	W250	196	263	263	247	195	187	443	502	489
W	W300	242	439	403	158	195	173	400	640	597
W	W350	266	326	357	220	152	174	486	502	558
W	W400	280	357	335	224	249	247	504	619	599
W	W450	308	232	201	207	211	188	515	470	416
W	W500	430	227	230	224	184	183	655	444	445
W	W600	430	201	201	224	141	141	655	370	370
K	K100	-60	-258	-253	-147	-114	-115	-207	-369	-369
K	K150	-54	-87	-87	-149	-225	-203	-204	-321	-318
K	K200	-72	-113	-103	-145	-110	-123	-218	-221	-227
K	K250	-99	-119	-124	-131	-139	-115	-231	-250	-233
K	K300	-130	-129	-139	-98	-127	-134	-229	-249	-275
K	K350	-153	-227	-165	-132	-115	-122	-286	-336	-292
K	K400	-165	-160	-186	-132	-134	-121	-297	-284	-302
K	K450	-174	-186	-170	-116	-176	-186	-291	-353	-244
K	K500	-203	-181	-181	-106	-129	-128	-309	-301	-302
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.5	
ACTUAL	PX (KIPS)		-19.3			0.			-19.4	
ACTUAL	PY (KIPS)		0.			-19.2			-19.6	

1E

TABLE IF

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

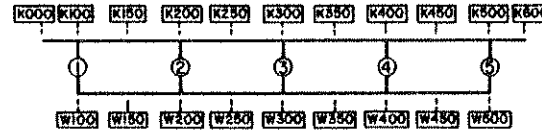
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	482	336	336	462	189	189	944	555	555
W	W100	482	331	326	462	357	357	944	703	701
W	W150	377	419	408	319	405	380	697	846	812
W	W200	376	357	377	286	465	466	663	856	872
W	W250	368	248	253	263	362	421	632	624	676
W	W300	329	310	302	269	259	267	598	587	588
W	W350	286	196	227	112	157	167	398	381	416
W	W400	444	284	282	57	130	123	501	428	420
W	W450	445	388	403	-40	16	21	404	418	442
W	W500	535	305	307	-131	-43	-39	404	259	265
W	W600	535	476	305	-131	-114	-43	404	349	349
K	K100	-241	-284	-284	-235	-178	-176	-476	-453	-452
K	K150	-214	-382	-362	-190	-167	-178	-405	-533	-530
K	K200	-224	-212	-227	-175	-201	-162	-399	-396	-391
K	K250	-219	-196	-175	-156	-165	-191	-375	-362	-360
K	K300	-210	-170	-181	-156	-191	-192	-357	-350	-365
K	K350	-179	-181	-175	-64	-150	-128	-244	-321	-302
K	K400	-187	-170	-170	-21	-45	-47	-299	-208	-214
K	K450	-198	-212	-212	17	-28	-28	-180	-225	-222
K	K500	-211	-206	-206	53	-6	-6	-158	-205	-205
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD	PY (KIPS)	0.	.2		-100.0	-100.0		-100.0	-100.5	
ACTUAL	PX (KIPS)		-19.3			0.			-19.4	
ACTUAL	PY (KIPS)		.0			-19.2			-19.6	

**TABLE 1G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

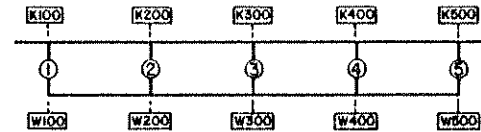
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	167	93	93	-584	-241	-241	-417	-172	-172
K	K100	144	98	98	-466	-279	-286	-321	-195	-196
K	K150	122	113	103	-353	-222	-276	-231	-118	-246
K	K200	121	119	119	-300	-235	-236	-178	-127	-127
K	K250	121	119	119	-245	-188	-210	-123	-68	-74
K	K300	121	98	95	-214	-178	-180	-93	-80	-78
K	K350	121	103	103	-185	-151	-153	-63	-46	-45
K	K400	121	108	106	-169	-146	-153	-48	-38	-39
K	K450	120	87	93	-155	-157	-159	-34	-74	-74
K	K500	140	93	95	-176	-171	-165	-35	-81	-81
K	K600	162	119	119	-198	-182	-182	-36	-61	-61
W	W100	-375	-310	-310	1338	1605	1649	962	1189	1248
W	W150	-415	-258	-300	1335	1113	1105	919	846	911
W	W200	-465	-331	-338	1197	1275	1242	732	936	892
W	W250	-463	-336	-315	954	875	884	602	555	579
W	W300	-461	0	-292	809	0	779	347	0	483
W	W350	-440	-238	-263	653	530	572	212	296	304
W	W400	-423	-346	-344	559	665	662	136	248	260
W	W450	-365	-186	-191	434	416	519	68	217	260
W	W500	-320	-289	-289	355	459	500	34	137	130
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD	PY (KIPS)				-100.0	-100.0		-100.0	-100.5	
ACTUAL	PX (KIPS)		-19.3			0.			-19.4	
ACTUAL	PY (KIPS)			0		-19.2			-19.6	

TABLE III

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

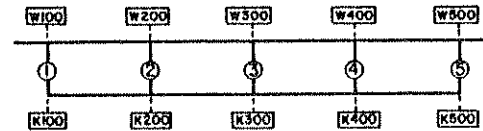
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-194	-113		-9	2		-204	-103	
K	K200	-216	-186		-6	5		-223	-173	
K	K300	-265	-217		-3	1		-268	-209	
K	K400	-296	-315		6	5		-290	-297	
K	K500	-374	-284		25	16		-349	-253	
W	W100	244	124		13	-11		258	137	
W	W200	275	605		7	-16		282	629	
W	W300	321	745		1	5		322	798	
W	W400	363	470		-8	-76		354	434	
W	W500	408	796		-26	-130		381	719	
SECTION F										
K	K100	-339	-263		14	22		-325	-237	
K	K200	-440	-424		20	35		-420	-383	
K	K400	-348	-398		50	74		-298	-337	
K	K500	-319	-263		78	61		-240	-203	
W	W100	372	419		-15	-54		357	370	
W	W200	545	1071		-25	-65		519	1052	
W	W400	423	910		-63	-146		359	814	
W	W500	326	1081		-88	-249		278	914	

**TABLE II**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



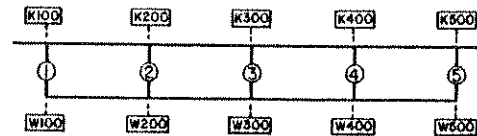
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-332	-165		84	59		-248	-95	
W	W200	-156	-134		85	124		-71	-11	
W	W300	-61	67		90	259		29	349	
W	W400	7	108		86	195		94	344	
W	W500	71	170		104	222		175	444	
K	K100	343	988		-87	-253		256	824	
K	K200	196	191		-107	-107		88	81	
K	K300	80	15		-111	-99		-70	-76	
K	K400	-1	0		-105	-128		-107	-123	
K	K500	-72	-134		-106	-147		-178	-271	
SECTION K										
W	W100	179	310		100	211		280	545	
W	W200	162	279		71	108		194	396	
W	W300	151	289		-49	-70		131	211	
W	W400	150	434		-100	-232		50	174	
W	W500	167	170		-152	-168		14	32	
K	K100	-196	-160		-112	-188		-208	-323	
K	K200	-199	-205		-38	-1		-237	-197	
K	K300	-187	-186		61	70		-125	-112	
K	K400	-187	-191		121	104		-66	-81	
K	K500	-174	-217		150	172		-23	-38	

TABLE 1J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

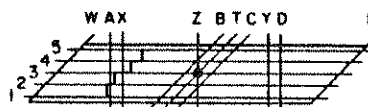
GAGE TYPE	GAGE LOC.	1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	160	155		-468	-509		-308	-334	
K	K200	134	129		-342	-334		-215	-211	
K	K400	111	103		-138	-137		-27	-34	
K	K500	117	67		-117	-128		0	-63	
W	W100	-172	-310		553	1183		380	814	
W	W200	-169	-227		450	946		289	714	
W	W400	-139	-372		168	676		28	280	
W	W500	-127	-382		124	594		-3	196	
SECTION I										
K	K100	133	87		-222	-18		-88	29	
K	K200	105	87		-86	-72		19	37	
K	K300	98	82		-22	8		75	92	
K	K400	84	67		-1	3		82	71	
K	K500	77	41		7	-15		85	32	
W	W100	-145	-139		225	368		80	222	
W	W200	-130	-227		111	400		-19	164	
W	W300	-117	-170		39	276		-77	111	
W	W400	-105	-201		8	54		-97	-137	
W	W500	-99	-77		-17	22		-116	-53	



**TABLE 1K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



I KIP = 4.448 kN  
I FT = 0.305 m

I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1X				1Y				1X+1Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	146.6	21.1	123.2	20.2	-11.0	18.8	-12.6	15.5	135.6	21.3	116.9	21.2
A	2	158.1	22.8	158.4	26.3	-10.8	18.5	-14.7	18.1	147.3	23.2	148.5	26.9
A	3	149.6	21.5	144.0	23.6	-11.8	20.2	-19.3	23.8	137.8	21.7	129.2	23.4
A	4	126.0	18.1	124.6	20.4	-12.4	21.1	-22.0	27.1	113.6	17.9	107.4	19.5
A	5	114.2	16.4	59.2	9.7	-12.5	21.4	-12.6	15.5	101.7	16.0	49.6	9.0
A	SUM	694.5		609.4		-58.6		-81.2		635.9		551.6	
D	1	-41.5	19.8	-29.9	18.9	130.8	31.0	138.5	28.6	89.3	42.0	103.9	33.7
D	2	-42.5	20.3	-42.0	26.5	104.3	24.7	144.4	29.9	61.7	29.0	102.3	33.2
D	3	-42.4	20.3	-34.6	21.8	75.3	17.9	89.4	18.5	32.9	15.5	54.9	17.8
D	4	-42.3	20.2	-30.9	19.5	59.8	14.2	66.3	13.7	17.5	8.2	30.0	9.7
D	5	-40.5	19.4	-20.9	13.2	51.7	12.3	45.0	9.3	11.2	5.3	16.8	5.5
D	SUM	-209.2		-158.4		421.9		483.5		212.7		308.1	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	105.9	15.3	209.2	29.6	-7.5	12.9	-24.5	41.0	98.4	15.5	194.6	30.2
A	2	190.0	27.5	155.1	21.9	-12.9	22.1	-12.5	20.8	177.1	28.0	141.8	22.0
A	3	171.4	24.8	139.8	19.8	-14.1	24.2	-8.0	13.4	157.3	24.0	128.4	19.9
A	4	144.5	20.9	114.4	16.2	-14.8	25.4	-7.5	12.6	129.7	20.5	102.0	15.8
A	5	79.2	11.5	88.1	12.5	-8.9	15.3	-7.2	12.0	70.3	11.1	77.4	12.0
A	SUM	691.0		706.4		-58.2		-59.8		632.8		644.1	
D	1	-29.3	14.1	-38.5	18.2	102.5	24.5	100.7	25.5	73.2	34.7	76.2	36.5
D	2	-50.4	24.2	-47.4	22.4	131.4	31.4	94.8	24.0	81.0	38.4	56.7	27.1
D	3	-50.0	24.0	-43.1	20.4	97.7	20.9	72.3	18.3	37.7	17.9	25.5	12.2
D	4	-49.9	24.0	-42.6	20.2	65.8	15.7	61.5	15.6	15.8	7.5	19.3	9.2
D	5	-28.4	13.7	-39.6	18.8	31.6	7.5	65.5	16.6	3.2	1.5	31.4	15.0
D	SUM	-208.1		-211.3		419.0		394.8		211.0		209.0	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-99.5	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.5	
ACTUAL	PX (KIPS)			-10.3				-0.				-19.4	
ACTUAL	PY (KIPS)			0.				-19.2				-19.6	

1K

TABLE 1L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KST COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



I KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

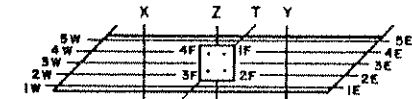
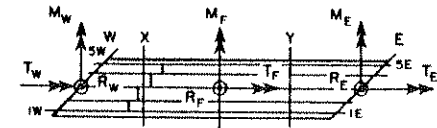
SECTION	GIRDER	1X				1Y				1X+1Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	123.8	17.9	167.2	25.5	-9.1	15.5	-18.7	26.9	114.7	18.1	156.6	26.2
A	2	176.0	25.4	155.8	23.7	-12.0	20.5	-13.5	19.4	164.0	25.9	144.2	24.2
A	3	161.9	23.4	141.0	21.5	-13.1	22.4	-13.3	19.2	148.8	23.5	128.1	21.5
A	4	136.3	19.7	118.6	18.1	-13.7	23.5	-14.4	20.6	122.6	19.3	104.0	17.4
A	5	94.6	13.7	73.9	11.3	-10.5	18.0	-9.7	13.9	84.1	13.3	63.9	10.7
A	SUM	692.6		656.7		-58.4		-69.6		634.2		596.8	
D	1	-34.6	16.6	-33.9	18.5	114.9	27.3	120.7	27.3	80.3	37.9	91.2	34.0
D	2	-46.9	22.5	-44.5	24.3	119.5	28.4	121.2	27.4	72.6	34.3	81.2	33.3
D	3	-46.7	22.4	-38.6	21.1	82.3	19.6	81.4	18.4	35.6	16.8	41.3	15.4
D	4	-46.6	22.3	-36.4	19.9	63.2	15.0	64.0	14.5	16.6	7.8	25.1	9.3
D	5	-33.7	16.2	-29.6	16.2	40.5	9.6	54.6	12.3	6.7	3.2	29.5	11.0
D	SUM	-208.6		-183.0		420.3		441.8		211.7		268.3	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	124.0	17.9	146.3	24.0	-9.1	15.6	-16.9	22.8	114.9	18.1	136.7	24.6
A	2	175.8	25.4	146.3	24.0	-12.0	20.5	-13.1	17.7	163.9	25.9	135.9	24.5
A	3	161.5	23.3	132.6	21.7	-13.1	22.4	-15.8	21.4	148.5	23.4	119.9	21.6
A	4	136.1	19.7	113.0	18.5	-13.7	23.5	-17.9	24.2	122.4	19.3	98.4	17.7
A	5	94.8	13.7	72.4	11.9	-10.5	18.0	-10.3	14.0	84.3	13.3	63.9	11.5
A	SUM	692.3		610.5		-58.4		-74.0		633.9		554.9	
D	1	-34.7	16.6	-31.7	18.7	114.3	27.2	129.6	28.1	79.8	37.4	97.6	33.5
D	2	-46.9	22.5	-42.8	25.2	119.6	28.5	133.0	28.9	72.7	34.1	93.9	32.2
D	3	-46.6	22.4	-36.3	21.4	82.1	19.5	84.4	18.3	35.5	16.7	49.4	16.9
D	4	-46.5	22.3	-33.4	19.7	63.0	15.0	64.1	13.9	16.7	7.8	27.8	9.5
D	5	-33.8	16.2	-25.6	15.1	41.2	9.8	49.6	10.8	8.4	4.0	22.6	7.8
D	SUM	-209.5		-169.8		420.2		460.6		213.1		291.3	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-99.5	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.5	
ACTUAL	PX (KIPS)			-19.3		-0.		-0.				-19.4	
ACTUAL	PY (KIPS)			0.		-19.2		-19.2				-19.6	

**TABLE 2A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 30 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT X-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OP LOAD	NORMALIZED POINT LOADS AT					
	2X		2Y		2X+2Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	7.73	6.62	37.23	32.08	40.96	36.77
2E	-4.42	-3.88	16.06	17.72	15.64	17.15
3E	-4.09	-3.04	4.53	2.56	.43	-.25
4E	-4.95	-5.66	-1.44	-2.12	-6.39	-7.77
5E	-4.43	-3.78	-4.81	-2.93	-9.24	-6.52
1F	-22.20	-21.20	29.06	33.64	6.87	8.73
2F	21.82	18.42	26.76	26.85	48.59	44.75
3F	56.54	61.19	.97	.52	57.51	63.90
4F	12.52	13.61	3.27	3.63	15.78	17.87
1W	6.96	5.79	.10	.82	7.06	6.43
2W	11.04	11.67	-.57	-.93	10.46	10.31
3W	12.50	16.01	-1.30	-1.24	11.20	14.70
4W	8.78	8.18	-2.23	-2.31	6.55	5.49
5W	-1.89	-2.89	-3.63	-4.10	-5.43	-6.91
RE	-6.16	-6.74	47.56	47.31	41.40	39.38
RF	68.69	72.02	60.06	64.64	128.75	135.25
RW	37.47	38.76	-7.62	-7.76	29.85	30.02
SUMP	100.00	104.04	100.00	104.19	200.00	204.65
DX	-100.00	-100.00	0.	-.06	-100.00	-100.51
DY	0.	.06	-100.00	-100.00	-100.00	-99.49
SUMP	-100.00	-99.94	-100.00	-100.06	-200.00	-200.00
SUMP/SUMP	1.00	1.04	1.00	1.04	1.00	1.02
TW=-MW	-50.86	-53.61	-23.42	-28.85	-74.28	-81.00
MF	104.14	116.37	-77.39	-84.51	26.75	42.43
TF	-132.06	-130.98	6.90	14.85	-125.17	-123.07
TE=-ME	-74.22	-65.78	-240.62	-231.07	-314.83	-286.71
ACTUAL DX		-17.60		-.01		-19.72
ACTUAL DY		.01		-19.43		-19.52



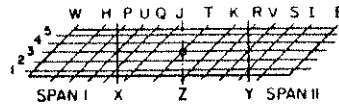
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 2B**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



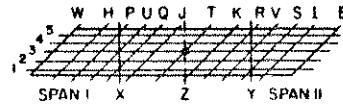
SPAN I DEFLECTION AT POINT	2X *****			2Y *****			2X+2Y *****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.571	-.757	1.33	.095	.127	1.34	-.476	-.646	1.36
3H	-.493	-.711	1.44	.096	.143	1.49	-.398	-.574	1.44
5H	-.302	-.435	1.44	.097	.138	1.43	-.205	-.302	1.48
1P	-.878	-1.193	1.36	.153	.221	1.45	-.725	-1.015	1.43
3P	-.700	-1.017	1.45	.147	.223	1.51	-.553	-.823	1.49
1X	-1.102	-1.539	1.40	.226	.301	1.33	-.876	-1.248	1.42
2X	-.982			.202			-.780		
3X	-.752	-1.102	1.47	.178	.268	1.50	-.574	-.856	1.49
4X	-.549			.156			-.393		
5X	-.361	-.594	1.65	.135	.203	1.50	-.226	-.395	1.75
1U	-1.080	-1.548	1.43	.199	.269	1.35	-.881	-1.278	1.45
5U	-.277	-.473	1.71	.140	.229	1.63	-.137	-.257	1.88
30	-.615	-.871	1.42	.181	.255	1.41	-.434	-.633	1.46
50	-.089	-.204	2.30	.102	.186	1.82	.013	-.037	-2.74
1J	-.942	-1.246	1.32	.223	.297	1.33	-.719	-.960	1.34
3J	-.375	-.517	1.38	.144	.200	1.39	-.231	-.328	1.42
5J	.131	-.003	-.02	.019	-.033	-1.70	.151	-.055	-.37
1T	-.520	-.624	1.20	.136	.155	1.14	-.384	-.457	1.19
2T	-.245			.070			-.175		
4T	.204			-.091			.113		
5T	.396	.434	1.10	-.191	-.247	1.29	.205	.196	.95

**TABLE 2C**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

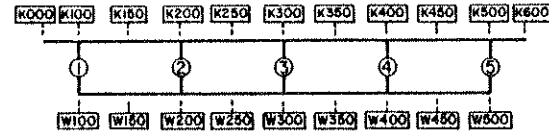
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	2X *****			2Y *****			2X+2Y *****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.168	-.134	.79	-.097	-.157	1.61	-.265	-.278	1.05
3K	.219	.277	1.26	-.282	-.409	1.45	-.063	-.113	1.80
5K	.505	.576	1.14	-.432	-.606	1.40	.073	-.034	-.46
1P	-.014	.062	-4.36	-.303	-.450	1.49	-.317	-.376	1.19
3P	.288	.366	1.27	-.463	-.672	1.45	-.175	-.286	1.63
1Y	.106	.180	1.69	-.541	-.817	1.51	-.435	-.608	1.40
2Y	.202			-.661			-.459		
3Y	.300	.358	1.19	-.545	-.809	1.48	-.245	-.410	1.67
4Y	.400			-.505			-.106		
5Y	.502	.572	1.14	-.514	-.779	1.52	-.011	-.166	
1V	.075	.155	2.07	-.481	-.720	1.50	-.406	-.546	1.35
5V	.451	.524	1.16	-.500	-.796	1.59	-.049	-.232	4.74
3S	.263	.324	1.23	-.482	-.732	1.52	-.219	-.397	1.82
5S	.359	.415	1.16	-.399	-.636	1.60	-.040	-.224	5.61
1I	.087	.132	1.51	-.428	-.616	1.44	-.140	-.462	1.36
3I	.185	.220	1.19	-.314	-.493	1.57	-.129	-.246	1.91
5I	.235	.257	1.10	-.244	-.411	1.68	-.009	-.132	
LOAD PX	-100.0	-100.0		0.	-.1		-100.0	-100.5	
LOAD PY	0.	.1		-100.0	-100.0		-100.0	-99.5	
ACTUAL PX		-19.6			-.0			-19.7	
ACTUAL PY		.0			-19.4			-19.5	

TABLE 2D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

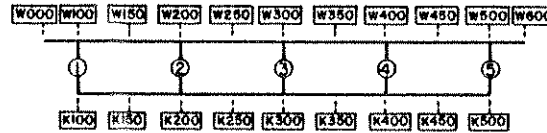
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2X			2Y			2X+2Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-384	-2049	-623	51	432	110	-332	-1947	-565
K	K100	-346	-620	-609	45	112	120	-301	-560	-544
K	K150	-384	-432	-440	52	98	82	-332	-372	-382
K	K200	-336	-372	-370	51	50	56	-284	-319	-318
K	K250	-393	-394	-389	52	53	52	-340	-351	-341
K	K300	-430	-401	-398	54	69	53	-376	-348	-351
K	K350	-366	-328	-347	54	40	49	-311	-286	-302
K	K400	-332	-312	-287	55	54	42	-276	-264	-242
K	K450	-310	-281	-296	55	43	46	-254	-237	-250
K	K500	-261	-307	-299	48	49	48	-212	-265	-258
K	K600	-301	-71	-71	56	11	11	-244	-50	-50
W	W100	1170	1443	1364	-140	-197	-179	1030	1277	1208
W	W150	1220	1110	1104	-160	-149	-143	1059	967	967
W	W200	1191	994	1028	-183	-149	-162	1009	862	889
W	W250	1420	819	1072	-195	-224	-169	1224	909	907
W	W300	1590	1453	1440	-210	-213	-206	1380	1261	1248
W	W350	1367	920	878	-211	-149	-146	1155	788	780
W	W400	1252	1147	1141	-214	-208	-206	1038	935	934
W	W450	1060	920	951	-192	-203	-178	867	720	745
W	W500	944	481	516	-175	-123	-120	768	373	413
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.5	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-19.6			-.0			-19.7	
ACTUAL	PY (KIPS)		.0			-19.4			-19.5	

**TABLE 2E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



**SECTION B**

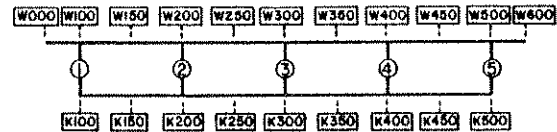
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2X			2Y			2X+2Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-77	280	227	398	251	320	321	536	562
W	W100	-77	227	226	398	320	315	321	562	557
W	W150	44	201	208	349	219	216	304	426	431
W	W200	202	307	311	372	240	241	575	557	563
W	W250	219	291	285	280	224	214	499	525	510
W	W300	273	444	392	204	219	201	477	652	604
W	W350	272	328	367	255	187	197	528	515	570
W	W400	276	365	349	252	288	285	528	641	624
W	W450	296	248	220	226	240	210	522	510	453
W	W500	408	254	256	236	219	217	645	473	473
W	W600	408	227	227	236	165	165	645	394	394
K	K100	13	-52	-52	-157	-136	-137	-143	-185	-185
K	K150	-27	-133	-134	-157	-227	-209	-195	-348	-342
K	K200	-81	-152	-149	-158	-126	-140	-239	-276	-287
K	K250	-107	-176	-175	-147	-160	-131	-254	-334	-307
K	K300	-149	-183	-195	-128	-134	-144	-278	-318	-342
K	K350	-157	-215	-190	-152	-132	-135	-310	-343	-326
K	K400	-164	-165	-176	-148	-144	-135	-312	-301	-305
K	K450	-170	-189	-183	-126	-182	-189	-296	-350	-359
K	K500	-195	-168	-169	-112	-141	-140	-308	-303	-303
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.5	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-19.6			-.0			-19.7	
ACTUAL	PY (KIPS)		.0			-19.4			-19.5	

TABLE 2F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

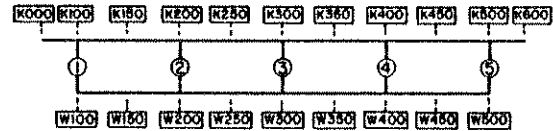
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2X			2Y			2X+2Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	363	174	174	420	224	224	784	399	399
W	W100	363	280	276	420	267	266	784	567	563
W	W150	328	386	373	314	352	335	642	757	724
W	W200	348	365	382	309	459	462	658	825	844
W	W250	338	243	265	291	395	431	629	641	696
W	W300	290	291	285	294	331	337	594	631	630
W	W350	267	206	228	143	181	195	410	399	436
W	W400	411	264	260	88	192	180	500	457	448
W	W450	405	354	369	-30	64	61	374	420	447
W	W500	481	264	267	-134	-5	2	346	252	259
W	W600	481	428	264	-134	-53	-5	346	342	342
K	K100	-176	-219	-219	-210	-171	-170	-387	-391	-390
K	K150	-185	-300	-293	-185	-207	-214	-370	-503	-511
K	K200	-206	-196	-205	-186	-220	-200	-393	-410	-399
K	K250	-200	-192	-176	-169	-212	-233	-370	-396	-403
K	K300	-183	-169	-183	-167	-249	-240	-351	-412	-421
K	K350	-167	-187	-175	-81	-175	-168	-248	-356	-340
K	K400	-174	-159	-163	-33	-67	-68	-207	-216	-221
K	K450	-180	-195	-194	10	-31	-31	-169	-212	-210
K	K500	-189	-190	-190	48	4	4	-141	-170	-170
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.5	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-19.6			-.0			-19.7	
ACTUAL	PY (KIPS)		.0			-19.4			-19.5	



**TABLE 2G**

**SUMMARY OF STRAINS (MICRO IN/IN)**

RESULTS FOR POINT LOADS  
 APPLIED AFTER 10 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



**SECTION D**

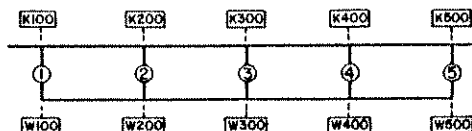
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2X			2Y			2X+2Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
K	K000	98	69	69	-314	-216	-216	-216	-155	-155
K	K100	85	78	78	-285	-270	-270	-200	-191	-190
K	K150	97	88	82	-347	-274	-283	-249	-186	-199
K	K200	97	95	94	-346	-195	-197	-249	-106	-109
K	K250	97	92	92	-332	-231	-261	-235	-140	-171
K	K300	96	79	78	-295	-240	-243	-198	-162	-166
K	K350	96	82	84	-255	-207	-210	-158	-123	-124
K	K400	96	87	86	-234	-200	-207	-137	-108	-115
K	K450	96	76	82	-214	-197	-202	-117	-123	-121
K	K500	82	81	83	-178	-212	-207	-95	-130	-123
K	K600	95	101	101	-199	-228	-228	-103	-121	-121
W	W100	-305	-243	-244	1114	1424	1386	838	1082	1054
W	W150	-337	-211	-243	1225	1007	1085	888	746	798
W	W200	-376	-280	-283	1305	1216	1237	929	909	916
W	W250	-374	-291	-267	1247	1040	1044	872	762	765
W	W300	-373	0	-239	1097	0	984	723	0	718
W	W350	-357	-185	-198	911	683	741	554	462	506
W	W400	-342	-159	-164	801	901	893	458	646	638
W	W450	-296	-159	-190	645	560	670	349	368	450
W	W500	-259	-238	-234	554	640	693	295	373	419
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-100.5	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-19.6			-0			-19.7	
ACTUAL	PY (KIPS)		.0			-19.4			-19.5	

TABLE 2H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

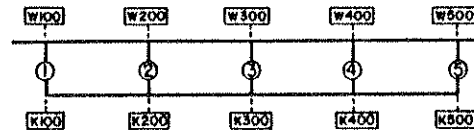
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	2X			2Y			2X+2Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-136	-84		11	10		-124	-75	
K	K200	-160	-152		15	19		-144	-139	
K	K300	-199	-164		21	18		-178	-149	
K	K400	-237	-240		30	28		-206	-219	
K	K500	-317	-226		50	33		-266	-199	
W	W100	166	122		-13	-21		152	105	
W	W200	206	529		-20	-64		186	489	
W	W300	246	534		-27	-53		218	483	
W	W400	289	449		-37	-80		251	384	
W	W500	340	772		-54	-149		285	631	
SECTION F										
K	K100	-333	-261		39	38		-293	-229	
K	K200	-290	-314		42	54		-247	-275	
K	K400	-362	-400		64	91		-294	-339	
K	K500	-337	-259		97	74		-239	-202	
W	W100	367	698		-42	-91		325	636	
W	W200	372	698		-53	-107		318	615	
W	W400	442	898		-85	-155		356	751	
W	W500	374	1046		-107	-213		267	846	

**TABLE 2I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, F, F, G



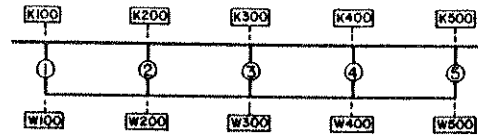
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2X			2Y			2X+2Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-289	-143		103	75		-185	-68	
W	W200	-123	-132		100	144		-23	0	
W	W300	-48	70		105	309		56	384	
W	W400	16	127		104	235		120	384	
W	W500	72	211		117	251		190	689	
K	K100	317	883		-107	-297		210	681	
K	K200	155	64		-125	-125		30	-55	
K	K300	64	-17		-129	-119		-64	-131	
K	K400	-13	-19		-126	-137		-140	-150	
K	K500	-77	-121		-122	-164		-200	-276	
SECTION K										
W	W100	162	291		83	107		245	489	
W	W200	144	259		43	107		187	368	
W	W300	135	248		-43	-59		91	184	
W	W400	132	386		-116	-235		16	110	
W	W500	145	164		-187	-192		-42	-21	
K	K100	-171	-161		-93	-119		-264	-271	
K	K200	-176	-178		-47	-64		-223	-232	
K	K300	-167	-168		57	36		-109	-129	
K	K400	-165	-173		141	118		-23	-47	
K	K500	-151	-207		194	242		43	41	

TABLE 2J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	2X			2Y			2X+2Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	136	134		-381	-369		-244	-240	
K	K200	105	109		-601	-1083		-495	-931	
K	K400	87	80		-202	-181		-114	-102	
K	K500	90	56		-182	-154		-91	-97	
W	W100	-146	-275		445	1045		299	746	
W	W200	-133	-201		733	1802		599	1518	
W	W400	-110	-270		248	923		138	588	
W	W500	-97	-317		199	832		101	478	
SECTION Y										
K	K100	104	62		-287	-152		-182	-92	
K	K200	79	66		-113	-75		-34	-15	
K	K300	71	55		-78	-35		-6	20	
K	K400	60	45		-51	-34		9	10	
K	K500	55	32		-37	-41		17	-8	
W	W100	-113	-111		330	453		216	321	
W	W200	-98	-174		147	325		48	137	
W	W300	-86	-132		104	357		17	200	
W	W400	-76	-153		70	197		-5	32	
W	W500	-69	-53		39	80		-30	16	

**TABLE 2K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	2X				2Y				2X+2Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL				
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	173.5	21.2	103.8	18.8	-18.0	19.0	-12.7	14.5	115.6	21.6	91.4	19.5
A	2	127.3	20.2	120.4	21.8	-18.5	19.6	-18.1	20.7	108.8	20.3	107.9	22.1
A	3	145.4	23.1	137.6	24.9	-19.1	20.3	-20.8	23.8	126.2	23.6	117.8	25.1
A	4	119.1	18.9	127.9	23.2	-19.5	20.7	-23.1	26.4	99.6	19.6	105.6	22.5
A	5	104.1	16.5	61.8	11.2	-19.3	20.4	-12.7	14.6	84.9	15.9	50.4	10.7
A	SUM	629.4		551.6		-94.3		-87.4		535.1		469.1	
D	1	-33.7	19.9	-23.9	19.1	111.9	22.7	123.7	23.1	78.3	24.2	92.2	24.0
D	2	-34.4	20.3	-35.0	29.0	122.0	24.7	150.6	28.2	87.5	27.0	110.9	28.9
D	3	-34.3	20.2	-28.4	22.8	105.0	21.3	112.0	21.0	70.7	21.8	80.7	21.0
D	4	-34.2	20.2	-18.7	15.0	83.4	16.9	87.7	16.4	49.2	15.2	61.6	16.0
D	5	-32.9	19.4	-19.0	15.2	71.0	14.4	60.3	11.3	38.2	11.8	38.3	10.0
D	SUM	-169.5		-125.0		493.3		534.3		323.8		383.7	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	101.4	16.2	192.9	30.0	-12.4	13.3	-37.8	36.4	88.9	16.7	172.3	30.7
A	2	150.0	24.0	134.0	20.8	-21.8	23.3	-20.9	20.1	128.2	24.1	115.9	20.7
A	3	163.8	26.2	133.1	20.7	-22.7	24.2	-17.8	17.1	141.1	26.5	117.1	20.9
A	4	136.6	21.8	104.6	16.3	-23.2	24.7	-15.1	14.6	113.4	21.3	89.3	15.9
A	5	74.0	11.8	78.4	12.2	-13.7	14.6	-12.3	11.8	60.4	11.4	66.5	11.9
A	SUM	625.8		643.1		-93.7		-104.0		532.0		561.1	
D	1	-23.8	14.1	-30.3	17.5	87.6	17.8	98.3	21.7	63.8	19.8	69.2	24.4
D	2	-40.8	24.2	-37.5	21.7	141.3	28.8	93.1	20.6	109.5	31.2	57.6	20.3
D	3	-40.5	24.0	-34.4	19.9	118.3	24.1	97.2	21.5	77.8	24.1	63.2	22.3
D	4	-40.4	24.0	-36.6	21.2	94.6	19.3	82.2	18.2	54.1	16.8	46.0	16.2
D	5	-23.0	13.7	-34.3	19.8	49.4	10.1	91.4	18.0	26.4	8.7	47.1	16.6
D	SUM	-168.5		-173.2		491.2		452.2		322.6		283.1	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-0.1		-100.0		-100.5	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.5	
ACTUAL	PX (KIPS)			-19.6				-0.				-19.7	
ACTUAL	PY (KIPS)			0				-19.4				-19.5	

2X

TABLE 2L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



I KIP = 4.448 kN  
I FT = 0.305 m

I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	2X				2Y				2X+2Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL				
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	115.5	18.4	149.6	25.1	-14.9	15.8	-25.7	26.9	100.7	18.9	133.0	25.8
A	2	140.0	22.3	126.9	21.3	-20.3	21.6	-19.5	20.4	119.7	22.4	109.6	21.3
A	3	155.7	24.8	134.5	22.6	-21.1	22.5	-19.1	20.0	134.6	25.2	116.8	23.7
A	4	128.9	20.5	115.2	19.3	-21.6	22.9	-18.8	19.7	107.3	20.1	96.6	18.8
A	5	87.3	13.9	70.2	11.8	-16.1	17.2	-12.4	13.0	71.1	13.3	58.6	11.4
A	SUM	627.4		596.3		-94.0		-95.6		533.4		514.5	
D	1	-28.1	16.6	-26.9	18.2	98.3	20.0	111.7	22.5	70.2	21.7	81.4	24.2
D	2	-38.0	22.5	-36.2	24.5	132.8	27.0	123.7	25.0	94.8	29.3	85.9	25.5
D	3	-37.8	22.4	-31.2	21.2	112.4	22.8	105.1	21.2	74.7	23.1	72.5	21.6
D	4	-37.7	22.3	-27.1	18.4	89.7	18.2	85.0	17.2	52.0	16.1	54.2	16.1
D	5	-27.4	16.2	-26.1	17.7	58.9	12.0	70.1	14.1	31.5	9.8	42.4	12.6
D	SUM	-168.9		-147.4		492.1		495.6		323.2		336.4	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	115.2	18.4	131.1	23.7	-14.9	15.9	-24.2	26.3	100.3	18.8	116.6	24.4
A	2	139.9	22.3	117.1	21.1	-20.3	21.6	-17.8	19.4	119.6	22.5	101.0	21.2
A	3	155.4	24.8	126.4	22.8	-21.1	22.4	-18.5	20.1	134.3	25.2	109.2	22.9
A	4	128.7	20.5	112.5	20.3	-21.6	22.9	-19.5	21.2	107.1	20.1	93.6	19.6
A	5	87.3	13.9	67.2	12.1	-16.1	17.2	-11.9	13.0	71.2	13.4	56.5	11.8
A	SUM	626.4		554.3		-94.0		-91.9		532.5		476.9	
D	1	-28.2	16.7	-25.2	18.2	97.9	19.9	116.8	22.8	69.8	21.7	86.5	23.9
D	2	-38.0	22.5	-35.1	25.4	132.6	27.0	139.1	27.2	94.6	29.3	102.2	28.2
D	3	-37.7	22.3	-29.6	21.4	112.2	22.8	107.0	20.9	74.5	23.1	75.8	20.9
D	4	-37.7	22.3	-25.4	18.4	89.5	18.2	85.0	16.6	51.9	16.1	57.9	16.0
D	5	-27.4	16.2	-23.0	16.6	59.1	12.0	64.3	12.6	31.7	9.8	39.7	11.0
D	SUM	-168.9		-138.2		491.3		512.2		322.5		362.2	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-0.1		-100.0		-100.5	
LOAD	PY (KIPS)	0.		.1		-100.0		-100.0		-100.0		-99.5	
ACTUAL	PX (KIPS)			-19.6				-0.				-19.7	
ACTUAL	PY (KIPS)			.0				-19.4				-19.5	

**TABLE 3A**

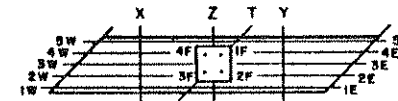
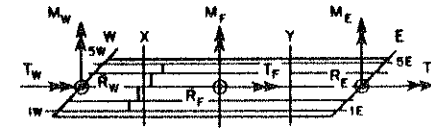
**SUMMARY OF REACTIONS (KIPS OR FT-KIPS)**

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

**NORMALIZED POINT LOADS AT**

REACTION OR LOAD	3X		3Y		3X+3Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	2.00	-0.06	13.86	12.57	15.86	12.69
2E	-1.34	-2.17	13.24	13.71	11.89	12.54
3E	-2.69	-1.39	10.10	7.18	7.50	6.04
4E	-2.74	-2.59	5.04	6.52	2.30	4.36
5E	-2.12	-1.86	.07	1.54	-2.06	.26
1F	-10.54	-10.52	42.89	48.96	32.35	36.58
2F	12.31	9.36	20.31	21.32	32.67	31.72
3F	42.76	47.06	-10.64	-13.06	32.12	34.54
4F	19.90	23.24	11.94	12.27	31.84	35.28
1W	.45	.57	-2.12	-.82	-1.67	-.84
2W	5.10	5.52	-2.71	-2.70	2.79	3.23
3W	9.44	11.54	-2.66	-2.81	6.78	8.93
4W	12.65	12.04	-1.34	-1.26	11.31	11.06
5W	14.83	12.51	1.92	.25	16.75	13.24
2E	-6.90	-8.07	42.40	41.52	35.50	35.89
3E	64.43	69.14	64.51	69.39	128.97	137.62
4E	42.47	42.18	-6.90	-7.34	35.57	36.02
SUMR	100.00	103.25	100.00	103.57	200.00	209.53
PX	-100.00	-100.00	0.	-.06	-100.00	-99.34
PY	0.	0.	-100.00	-100.00	-100.00	-100.66
SUMP	-100.00	-100.00	-100.00	-100.06	-200.00	-200.09
SUMR/SUMP	1.00	1.03	1.00	1.04	1.00	1.05
TW=-MW	93.35	78.17	24.30	9.21	117.66	90.49
MF	91.33	107.10	-92.85	-106.45	-1.52	3.03
TF	-68.56	-65.55	67.73	79.30	-.84	9.15
TE=-MF	-24.78	-10.34	-92.03	-75.21	-116.81	-84.96
ACTUAL OX		-19.28		-.01		-19.12
ACTUAL OY		0.		-19.29		-19.37



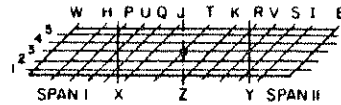
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 3B**

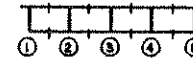
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



**SPAN I**

**NORMALIZED POINT LOADS AT**

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.409	-.586	1.43	.164	.188	1.15	-.245	-.392	1.60
3H	-.414	-.617	1.49	.140	.180	1.28	-.274	-.431	1.58
5H	-.341	-.492	1.44	.093	.141	1.52	-.248	-.354	1.43
1P	-.646	-.933	1.44	.254	.314	1.23	-.391	-.634	1.62
3P	-.610	-.933	1.53	.205	.273	1.33	-.405	-.638	1.57
1X	-.817	-1.169	1.43	.363	.435	1.20	-.454	-.719	1.58
2X	-.752			.300			-.452		
3X	-.693	-1.054	1.52	.239	.317	1.32	-.453	-.723	1.59
4X	-.559			.180			-.379		
5X	-.430	-.710	1.65	.123	.193	1.58	-.307	-.494	1.61
1U	-.804	-1.179	1.47	.323	.398	1.23	-.480	-.779	1.62
5U	-.373	-.615	1.65	.111	.190	1.71	-.262	-.416	1.59
3Q	-.561	-.798	1.42	.235	.299	1.27	-.327	-.494	1.51
5Q	-.195	-.350	1.80	.049	.125	2.53	-.145	-.222	1.53
1J	-.685	-.908	1.33	.363	.418	1.15	-.322	-.485	1.51
3J	-.337	-.468	1.39	.182	.227	1.24	-.155	-.235	1.52
5J	.017	-.033	-1.96	-.068	-.063	.92	-.052	-.027	.52
1T	-.353	-.399	1.13	.267	.285	1.07	-.086	-.124	1.44
2T	-.167			.137			-.029		
4T	.136			-.166			-.030		
5T	.265	.284	1.07	-.349	-.411	1.18	-.084	-.138	1.64



**TABLE 3C**

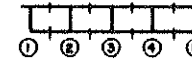
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

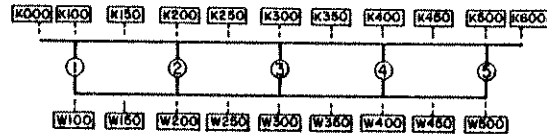
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.073	-.022	.30	.026	-.041	-1.54	-.047	-.061	1.35
3K	.182	.242	1.33	-.353	-.475	1.35	-.171	-.262	1.53
5K	.363	.409	1.13	-.674	-.857	1.27	-.311	-.477	1.54
1P	.045	.133	2.96	-.174	-.303	1.74	-.130	-.196	1.51
3P	.234	.309	1.32	-.602	-.823	1.37	-.368	-.526	1.43
1Y	.120	.211	1.76	-.402	-.645	1.60	-.283	-.438	1.55
2Y	.178			-.545			-.367		
3Y	.239	.313	1.31	-.762	-1.059	1.39	-.523	-.765	1.46
4Y	.301			-.739			-.438		
5Y	.363	.406	1.12	-.789	-1.089	1.38	-.426	-.688	1.62
1V	.107	.200	1.87	-.339	-.549	1.62	-.232	-.372	1.61
5V	.324	.383	1.18	-.769	-1.092	1.42	-.445	-.725	1.63
3S	.205	.271	1.33	-.653	-.910	1.39	-.448	-.673	1.50
5S	.255	.291	1.14	-.623	-.978	1.41	-.368	-.613	1.66
1I	.092	.153	1.67	-.331	-.500	1.51	-.240	-.368	1.54
3I	.140	.176	1.26	-.432	-.609	1.41	-.292	-.439	1.51
5I	.164	.188	1.15	-.396	-.576	1.45	-.232	-.405	1.74
LOAD PX	-100.0	-100.0		0.	-.1		-100.0	-99.3	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-100.7	
ACTUAL PX		-19.3			-.0			-19.1	
ACTUAL PY		0.			-19.3			-19.4	

TABLE 3D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

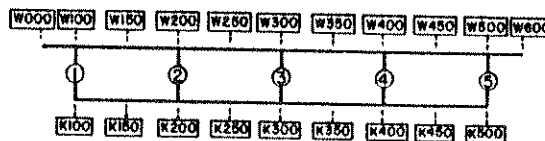
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-344	-1951	-552	72	535	144	-272	-1593	-437
K	K100	-398	-559	-580	85	147	157	-312	-442	-458
K	K150	-375	-444	-427	73	122	108	-261	-350	-338
K	K200	-369	-333	-333	74	71	77	-295	-263	-261
K	K250	-355	-311	-326	74	78	76	-280	-238	-253
K	K300	-326	-370	-370	75	87	80	-250	-295	-255
K	K350	-332	-271	-298	75	65	73	-257	-207	-231
K	K400	-305	-295	-262	75	70	62	-230	-230	-202
K	K450	-287	-256	-274	75	62	66	-238	-195	-209
K	K500	-318	-278	-267	89	70	68	-228	-210	-202
K	K600	-249	-60	-60	76	16	16	-173	-52	-52
W	W100	1001	1365	1292	-196	-247	-238	804	1079	1011
W	W150	1057	1021	1000	-227	-183	-178	830	824	798
W	W200	1278	1096	1148	-263	-193	-200	1015	873	921
W	W250	1271	930	1062	-275	-344	-198	996	249	865
W	W300	1202	1241	1223	-290	-247	-241	911	997	980
W	W350	1245	903	857	-291	-161	-164	953	694	661
W	W400	1157	1290	1258	-293	-215	-214	864	997	981
W	W450	970	989	921	-262	-210	-216	708	759	657
W	W500	835	554	571	-237	-140	-148	598	407	388
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-99.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.7	
ACTUAL	PX (KIPS)		-19.3			-0.			-19.1	
ACTUAL	PY (KIPS)		0.			-19.3			-19.4	

**TABLE 3E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 10 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

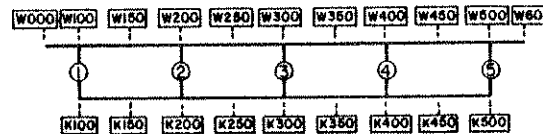
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-84	210	174	430	215	355	346	439	499
W	W100	-84	174	137	430	355	352	346	499	494
W	W150	19	140	143	368	236	236	388	385	389
W	W200	155	237	238	383	252	254	539	504	507
W	W250	208	296	290	301	231	222	510	553	524
W	W300	299	457	377	258	231	227	558	699	623
W	W350	284	339	372	108	226	244	593	590	628
W	W400	285	392	381	305	360	355	591	743	728
W	W450	299	312	276	276	279	250	576	612	550
W	W500	410	306	305	290	279	279	700	585	594
W	W600	410	258	258	290	242	242	700	504	504
K	K100	21	-35	-35	-169	-160	-161	-148	-183	-183
K	K150	-14	-110	-109	-164	-240	-224	-179	-335	-326
K	K200	-62	-118	-123	-161	-140	-154	-224	-256	-269
K	K250	-101	-191	-188	-157	-173	-143	-258	-365	-334
K	K300	-167	-241	-236	-161	-143	-159	-329	-388	-403
K	K350	-165	-206	-215	-183	-158	-155	-348	-363	-373
K	K400	-170	-187	-181	-180	-162	-158	-351	-346	-332
K	K450	-174	-207	-210	-156	-201	-205	-330	-402	-411
K	K500	-201	-169	-169	-140	-159	-158	-341	-326	-325
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-99.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.7	
ACTUAL	PX (KIPS)		-19.3			-.0			-19.1	
ACTUAL	PY (KIPS)		-0.			-19.3			-19.4	

TABLE 3F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

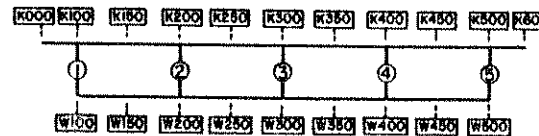
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	295	97	231	387	242	242	682	347	347
W	W100	295	231	228	387	220	219	692	461	458
W	W150	275	339	320	286	317	297	562	640	615
W	W200	301	339	352	279	371	376	580	699	718
W	W250	300	237	260	294	371	385	594	607	639
W	W300	250	269	266	328	403	406	578	688	684
W	W350	249	204	222	191	220	239	440	434	466
W	W400	387	258	253	159	274	268	546	537	527
W	W450	374	333	350	7	145	166	392	472	507
W	W500	438	247	251	-119	48	53	318	282	290
W	W600	438	398	247	-119	48	48	318	412	412
K	K100	-141	-187	-187	-188	-168	-168	-330	-357	-357
K	K150	-155	-243	-243	-165	-213	-214	-320	-457	-461
K	K200	-178	-183	-185	-166	-190	-187	-344	-369	-362
K	K250	-178	-182	-172	-169	-224	-235	-347	-397	-406
K	K300	-157	-166	-182	-183	-300	-268	-341	-464	-460
K	K350	-156	-199	-174	-110	-199	-212	-266	-392	-388
K	K400	-164	-151	-160	-62	-110	-108	-226	-253	-255
K	K450	-168	-184	-179	-7	-50	-50	-175	-219	-218
K	K500	-172	-168	-169	37	20	20	-135	-127	-127
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-99.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.7	
ACTUAL	PX (KIPS)		-19.3			-.0			-19.1	
ACTUAL	PY (KIPS)		-.0			-19.3			-19.4	

**TABLE 3G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

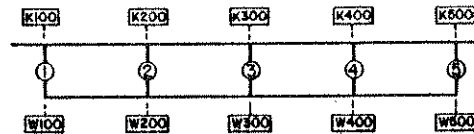
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	77	52	52	-269	-185	-185	-192	-146	-146
K	K100	90	60	60	-330	-234	-237	-240	-184	-186
K	K150	75	62	64	-295	-246	-260	-219	-194	-206
K	K200	75	73	72	-330	-317	-316	-254	-260	-259
K	K250	75	68	70	-362	-304	-312	-287	-250	-256
K	K300	74	64	64	-370	-244	-243	-295	-189	-189
K	K350	74	63	64	-365	-259	-262	-290	-210	-213
K	K400	74	67	68	-374	-271	-282	-260	-218	-227
K	K450	74	67	71	-302	-262	-269	-227	-213	-215
K	K500	87	73	73	-338	-283	-276	-251	-227	-219
K	K600	73	86	86	-276	-316	-316	-202	-241	-241
W	W100	-239	-247	-249	901	1182	1174	662	894	894
W	W150	-262	-188	-199	1017	849	874	754	661	685
W	W200	-292	-253	-252	1240	1165	1171	947	948	950
W	W250	-290	-237	-225	1345	1144	1105	1055	954	911
W	W300	-288	0	-215	1351	0	1073	1062	0	885
W	W350	-275	-167	-180	1298	816	900	1022	672	743
W	W400	-264	-167	-168	1156	1026	1025	892	808	805
W	W450	-229	-140	-177	936	698	874	707	564	720
W	W500	-200	-172	-179	814	818	885	614	683	727
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-99.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.7	
ACTUAL	PX (KIPS)		-19.3			-0			-19.1	
ACTUAL	PY (KIPS)		0.			-19.3			-19.4	

**TABLE 3H**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

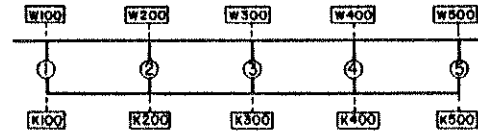
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-78	-66		33	19		-45	-46	
K	K200	-102	-121		37	32		-65	-88	
K	K300	-135	-117		46	34		-89	-83	
K	K400	-182	-189		54	52		-127	-138	
K	K500	-267	-201		76	51		-191	-149	
W	W100	91	124		-41	-27		50	92	
W	W200	134	425		-47	-102		87	325	
W	W300	170	349		-56	-113		114	239	
W	W400	222	435		-67	-97		155	336	
W	W500	286	769		-82	-161		203	580	
SECTION F										
K	K100	-265	-222		64	54		-200	-168	
K	K200	-263	-298		65	73		-198	-231	
K	K400	-389	-418		86	104		-303	-318	
K	K500	-370	-310		116	93		-253	-212	
W	W100	292	597		-69	-113		222	477	
W	W200	335	672		-81	-145		253	520	
W	W400	473	897		-108	-188		364	694	
W	W500	431	1080		-126	-226		305	797	

**TABLE 3I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



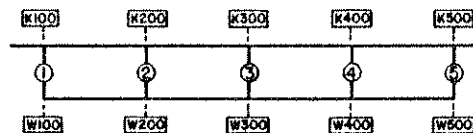
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
<b>SECTION J</b>										
W	W100	-214	-113		123	81		-90	-27	
W	W200	-117	-118		115	167		-1	33	
W	W300	-38	64		120	349		81	407	
W	W400	23	129		126	290		149	444	
W	W500	74	253		142	317		217	602	
K	K100	221	642		-128	-306		92	309	
K	K200	142	89		-143	-145		-1	-44	
K	K300	52	-23		-148	-140		-95	-157	
K	K400	-21	-47		-154	-148		-176	-189	
K	K500	-81	-111		-152	-184		-233	-289	
<b>SECTION K</b>										
W	W100	140	231		65	167		206	407	
W	W200	124	220		24	102		148	320	
W	W300	119	226		-21	-16		97	173	
W	W400	116	360		-126	-242		-10	38	
W	W500	124	145		-239	-242		-114	-81	
K	K100	-148	-162		-70	-78		-219	-227	
K	K200	-152	-159		-21	-61		-173	-208	
K	K300	-147	-158		33	-33		-114	-173	
K	K400	-144	-157		156	114		11	-24	
K	K500	-129	-175		258	336		128	178	

TABLE 3J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	114	121		-308	-301		-194	-198	
K	K200	85	95		-353	-396		-268	-321	
K	K400	64	59		-275	-222		-210	-176	
K	K500	64	45		-259	-189		-195	-157	
W	W100	-122	-258		341	811		219	564	
W	W200	-107	-188		430	1010		322	808	
W	W400	-81	-247		342	1208		261	992	
W	W500	-69	-258		290	1096		221	878	
SECTION I										
K	K100	77	41		-292	-166		-215	-135	
K	K200	54	43		-193	-152		-138	-121	
K	K300	46	31		-120	-78		-74	-53	
K	K400	37	25		-100	-66		-63	-47	
K	K500	32	18		-80	-59		-47	-45	
W	W100	-84	-91		326	446		242	358	
W	W200	-67	-113		277	580		170	439	
W	W300	-56	-97		152	344		96	260	
W	W400	-47	-86		132	279		85	201	
W	W500	-41	-32		93	124		52	98	



TABLE 3K

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT  
3X

SECTION	GIRDER	3X				3Y				3X+3Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	114.0	20.4	95.3	17.6	-25.1	19.2	-16.4	15.9	89.8	20.8	75.1	17.9
A	2	127.3	22.7	124.6	23.0	-26.3	20.1	-22.0	21.3	101.0	23.4	100.3	23.0
A	3	118.7	21.1	124.2	23.0	-26.6	20.3	-23.9	23.2	92.1	21.4	99.3	23.6
A	4	108.8	19.4	134.1	24.8	-26.8	20.4	-25.2	24.4	82.0	19.0	102.1	24.3
A	5	92.3	16.4	62.6	11.6	-26.1	20.0	-15.7	15.2	66.2	15.4	43.2	10.3
A	SUM	562.2		540.8		-131.0		-103.1		431.2		420.1	
D	1	-26.3	20.0	-22.2	19.9	96.3	17.1	101.8	18.5	70.0	16.3	78.1	17.6
D	2	-26.7	20.3	-30.0	26.9	117.3	20.9	139.9	25.5	90.6	21.0	113.2	25.5
D	3	-26.5	20.2	-25.1	22.4	131.0	23.3	125.1	22.8	104.5	24.3	103.5	23.3
D	4	-26.4	20.1	-18.7	16.7	118.8	21.1	104.5	19.0	92.4	21.5	84.0	18.9
D	5	-25.4	19.4	-15.8	14.1	98.6	17.5	78.2	14.2	73.1	17.0	64.7	14.6
D	SUM	-131.4		-111.8		562.0		549.5		430.7		443.4	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	87.5	15.6	181.2	31.5	-17.5	13.4	-49.5	33.9	70.0	16.3	143.3	31.9
A	2	147.4	26.4	120.4	20.9	-31.0	23.8	-28.9	19.8	115.3	27.1	94.3	21.0
A	3	133.1	23.8	111.1	19.3	-31.4	24.1	-27.1	18.6	101.7	23.7	85.6	19.1
A	4	125.2	22.4	92.9	16.1	-31.8	24.4	-22.8	15.6	93.4	21.8	71.5	15.9
A	5	66.1	11.8	70.0	12.2	-18.5	14.2	-17.6	12.0	47.6	11.1	53.9	12.0
A	SUM	559.2		575.6		-130.2		-145.8		429.0		448.5	
D	1	-18.6	14.3	-22.6	16.5	71.0	12.7	86.0	16.0	52.4	12.2	68.0	15.8
D	2	-31.7	24.3	-28.5	20.8	133.9	23.9	122.7	22.9	102.2	23.8	100.2	23.3
D	3	-31.3	24.0	-26.9	19.7	145.5	26.0	106.7	19.9	114.2	26.6	95.2	19.8
D	4	-31.2	23.9	-28.6	20.9	136.4	24.4	111.3	20.7	105.2	24.5	90.1	21.0
D	5	-17.8	13.6	-30.2	22.0	72.8	13.0	110.1	20.5	55.0	12.8	86.4	20.1
D	SUM	-130.6		-136.9		559.7		536.7		429.1		430.0	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-1		-100.0		-99.3	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.7	
ACTUAL	PX (KIPS)			-19.3				-0				-19.1	
ACTUAL	PY (KIPS)			-0.				-19.3				-19.4	

3K

TABLE 3L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



I KIP = 4.448 kN  
I FT = 0.305 m

I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

SECTION	GIRDER	3X				3Y				TX+3Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	99.5	17.8	139.4	25.1	-20.9	16.0	-33.5	26.8	78.7	18.3	110.2	25.5
A	2	138.6	24.7	121.8	21.9	-29.0	22.2	-25.5	20.4	109.6	25.5	96.7	22.3
A	3	126.8	22.6	116.7	21.0	-29.3	22.5	-25.4	20.4	97.5	22.7	91.6	21.2
A	4	118.0	21.0	111.9	20.1	-29.6	22.7	-23.8	19.1	88.4	20.6	85.6	19.8
A	5	77.6	13.9	66.2	11.9	-21.8	16.7	-16.6	13.3	55.8	13.0	48.6	11.2
A	SUM	560.5		566.0		-130.6		-124.8		429.9		432.6	
D	1	-22.0	16.8	-22.4	18.1	82.1	14.6	94.3	17.4	60.1	14.0	73.3	16.8
D	2	-29.5	22.5	-29.3	23.8	126.6	22.6	131.8	24.3	97.1	22.6	107.1	24.5
D	3	-29.2	22.3	-25.9	21.0	139.1	24.8	116.5	21.4	109.9	25.6	94.9	21.7
D	4	-29.1	22.2	-23.3	18.9	128.7	22.9	107.6	19.8	99.6	23.2	86.8	19.9
D	5	-21.2	16.2	-22.5	18.2	84.1	15.0	93.0	17.1	63.0	14.7	74.8	17.1
D	SUM	-131.0		-123.4		560.7		543.2		429.9		436.9	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	99.1	17.7	122.0	23.2	-20.9	16.0	-31.4	27.0	78.3	18.2	96.5	23.6
A	2	138.3	24.7	114.6	21.8	-28.9	22.2	-23.0	19.8	109.4	25.5	91.5	22.4
A	3	126.6	22.6	111.6	21.3	-29.3	22.4	-23.3	20.1	97.3	22.7	88.4	21.6
A	4	117.8	21.1	114.2	21.7	-29.6	22.6	-22.8	19.6	88.3	20.6	87.1	21.3
A	5	77.8	13.9	62.7	11.9	-21.9	16.7	-15.7	13.5	55.9	13.0	46.0	11.2
A	SUM	559.6		525.1		-130.6		-116.1		429.1		409.5	
D	1	-22.0	16.8	-21.9	18.6	82.1	14.7	96.9	18.0	60.0	14.0	74.7	17.2
D	2	-29.5	22.5	-29.2	24.8	126.6	22.6	133.7	24.8	96.9	22.6	108.4	25.0
D	3	-29.2	22.3	-25.1	21.3	138.9	24.8	119.2	22.1	109.7	25.6	98.2	22.6
D	4	-29.1	22.2	-21.5	18.7	128.5	22.9	104.3	19.4	99.4	23.2	84.0	19.4
D	5	-21.2	16.2	-20.0	17.0	84.0	15.0	84.8	15.7	62.9	14.7	68.8	15.9
D	SUM	-131.0		-117.7		559.9		539.0		429.0		434.1	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-.		-100.0		-99.3	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.7	
ACTUAL	PX (KIPS)			-19.3				-.				-19.1	
ACTUAL	PY (KIPS)			-0.				-19.3				-19.4	

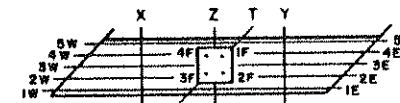
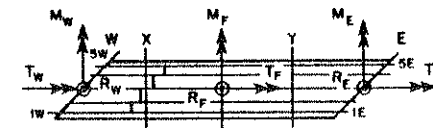
**TABLE 4A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT X-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	4X		4Y		4X+4Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	-3.71	-5.46	-2.42	-4.25	-6.13	-9.63
2F	-2.27	-3.27	8.84	9.06	6.57	6.23
3F	-1.31	-0.31	13.24	10.35	11.93	10.28
4F	-0.55	0.13	11.54	14.58	10.99	15.35
5F	0.16	0.06	6.21	6.98	6.37	6.91
1E	0.77	-1.04	56.74	61.44	57.51	60.07
2E	3.38	1.02	12.46	13.11	15.83	13.09
3E	29.31	34.29	-22.33	-24.49	6.98	10.27
4E	26.70	31.15	21.95	23.67	48.66	56.77
1W	-5.32	-4.62	-4.38	-2.74	-9.70	-7.45
2W	-1.16	0.	-4.91	-4.74	-6.06	-5.12
3W	5.10	5.66	-4.07	-4.27	1.03	1.82
4W	16.00	16.41	-0.45	-0.57	15.55	16.69
5W	32.90	30.36	7.58	4.85	40.47	35.99
RF	-7.68	-8.85	37.41	36.72	29.74	29.14
RE	60.16	65.42	68.82	73.73	128.98	140.20
RW	47.52	47.81	-6.23	-7.47	41.29	41.84
SUMR	100.00	104.38	100.00	102.98	200.00	211.18
PX	-100.00	-100.00	0.	-0.06	-100.00	-99.67
PY	0.	0.	-100.00	-100.00	-100.00	-100.33
SUMP	-100.00	-100.00	-100.00	-100.06	-200.00	-200.00
SUMR / SUMP	1.00	1.04	1.00	1.03	1.00	1.06
TW=-MW	240.64	222.09	72.99	49.76	313.62	279.02
MF	77.80	98.19	-104.35	-113.05	-26.55	-9.18
TF	-7.82	-7.80	132.84	144.73	125.02	140.22
TE=-ME	24.33	37.13	51.31	71.95	75.64	108.51
ACTUAL PX		-19.54		-0.01		-19.15
ACTUAL PY		0.		-19.14		-19.28



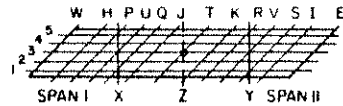
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 4B**

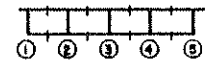
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSF COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	4X			4Y			4X+4Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.250	-.377	1.51	.234	.252	1.08	-.016	-.141	8.75
3H	-.316	-.489	1.55	.185	.222	1.20	-.131	-.276	2.11
5H	-.407	-.568	1.40	.089	.133	1.49	-.318	-.463	1.46
1P	-.416	-.642	1.54	.358	.412	1.15	-.058	-.263	4.52
3P	-.484	-.742	1.53	.263	.309	1.17	-.221	-.428	1.94
1X	-.552	-.807	1.46	.501	.560	1.12	-.051	-.259	5.07
2X	-.549			.400			-.149		
3X	-.559	-.837	1.50	.301	.357	1.19	-.258	-.495	1.92
4X	-.594			.204			-.390		
5X	-.516	-.817	1.58	.109	.152	1.40	-.407	-.662	1.63
1U	-.533	-.816	1.53	.449	.503	1.12	-.084	-.327	3.88
5U	-.473	-.719	1.52	.080	.138	1.71	-.393	-.596	1.51
3O	-.474	-.662	1.40	.289	.350	1.21	-.185	-.337	1.82
5O	-.301	-.445	1.48	-.009	.049	-5.42	-.310	-.414	1.33
1J	-.456	-.617	1.35	.504	.552	1.09	.048	-.058	-1.21
3J	-.286	-.391	1.37	.220	.267	1.21	-.065	-.140	2.14
5J	-.099	-.049	.50	-.163	-.095	.58	-.262	-.084	.32
1T	-.195	-.214	1.10	.396	.432	1.09	.201	.193	.96
2T	-.092			.204			.111		
4T	.070			-.246			-.176		
5T	.136	.148	1.09	-.523	-.608	1.16	-.388	-.479	1.24

**TABLE 4C**

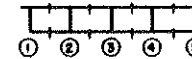
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

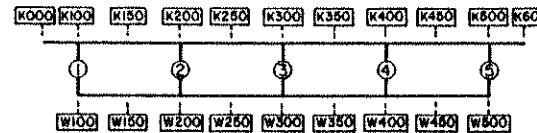
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	4X			4Y			4X+4Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	.022	.065	3.00	.135	.090	.60	.156	.160	1.03
3K	.145	.190	1.31	-.374	-.509	1.36	-.230	-.316	1.38
5K	.223	.251	1.13	-.964	-1.211	1.26	-.741	-.966	1.30
1P	.104	.179	1.72	-.076	-.197	2.60	.028	-.017	-.61
3P	.192	.244	1.34	-.613	-.828	1.35	-.431	-.596	1.38
1Y	.134	.211	1.58	-.324	-.541	1.67	-.190	-.332	1.74
2Y	.156			-.505			-.349		
3Y	.180	.232	1.29	-.739	-1.049	1.42	-.559	-.800	1.43
4Y	.204			-1.051			-.847		
5Y	.226	.268	1.18	-1.170	-1.536	1.36	-.907	-1.271	1.41
1V	.139	.218	1.56	-.247	-.441	1.79	-.107	-.214	2.00
5V	.199	.247	1.24	-1.092	-1.493	1.37	-.892	-1.245	1.40
3S	.148	.198	1.34	-.690	-.969	1.40	-.542	-.784	1.45
5S	.153	.187	1.23	-.884	-1.190	1.35	-.731	-1.000	1.37
1I	.097	.143	1.48	-.278	-.445	1.60	-.181	-.294	1.62
3I	.096	.125	1.30	-.492	-.687	1.40	-.396	-.556	1.41
5I	.094	.113	1.20	-.572	-.781	1.37	-.477	-.660	1.38
LOAD PX	-100.0	-100.0		0.	-.1		-100.0	-99.7	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-100.3	
ACTUAL PX		-19.5			-.0			-19.1	
ACTUAL PY		-.0.			-19.1			-19.3	

TABLE 4D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING,  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

1 KIP = 4.448 kN  
 1 IN = 25.4 mm

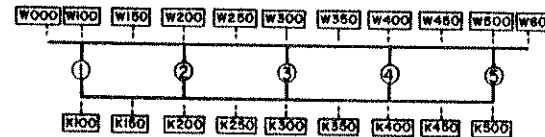
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	4X			4Y			4X+4Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-256	-1415	-389	94	586	167	-162	-1063	-263
K	K100	-293	-397	-424	111	170	179	-182	-271	-298
K	K150	-249	-343	-312	96	142	131	-153	-260	-217
K	K200	-270	-235	-241	97	94	100	-173	-148	-156
K	K250	-258	-221	-237	97	101	97	-161	-135	-146
K	K300	-258	-320	-249	97	98	99	-161	-243	-153
K	K350	-314	-212	-245	97	87	90	-217	-131	-159
K	K400	-341	-305	-253	97	84	79	-244	-237	-176
K	K450	-323	-276	-301	97	80	84	-225	-201	-222
K	K500	-340	-309	-295	114	89	86	-225	-232	-222
K	K600	-265	-71	-71	97	28	28	-167	-58	-58
W	W100	714	1023	945	-255	-276	-271	459	741	731
W	W150	774	795	765	-295	-211	-193	478	500	651
W	W200	934	816	876	-344	-244	-241	589	557	605
W	W250	930	853	882	-357	-601	-236	572	720	665
W	W300	976	1177	1185	-375	-254	-251	601	931	891
W	W350	1177	997	867	-376	-162	-176	800	817	792
W	W400	1265	2114	1990	-377	-217	-221	897	806	792
W	W450	1112	1113	996	-336	-206	-247	776	904	871
W	W500	952	482	591	-302	-125	-142	649	363	381
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-99.7	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.3	
ACTUAL	PX (KIPS)		-19.5			-.0			-19.1	
ACTUAL	PY (KIPS)		0.			-19.1			-19.3	

**TABLE 4E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

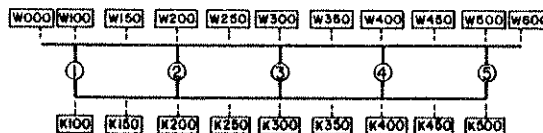
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		4X			4Y			4X+4Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-86	164	48	477	200	406	391	384	444
W	W100	-86	48	48	477	406	400	391	444	439
W	W150	6	85	90	400	254	251	406	352	353
W	W200	126	170	169	403	287	289	510	460	463
W	W250	186	291	256	316	244	230	503	519	496
W	W300	297	392	321	291	249	255	588	655	591
W	W350	278	318	344	347	271	288	625	590	635
W	W400	284	371	368	367	455	447	652	812	801
W	W450	298	345	311	352	352	324	651	720	651
W	W500	414	355	350	397	384	387	811	741	738
W	W600	414	302	302	397	352	352	811	660	660
K	K100	24	-28	-28	-188	-188	-189	-164	-205	-206
K	K150	-7	-95	-94	-178	-261	-246	-186	-341	-330
K	K200	-50	-82	-84	-170	-157	-173	-220	-231	-243
K	K250	-89	-159	-156	-164	-185	-189	-254	-337	-308
K	K300	-168	-239	-212	-188	-179	-159	-353	-377	-388
K	K350	-161	-167	-191	-206	-197	-167	-367	-351	-367
K	K400	-170	-191	-165	-219	-178	-183	-389	-363	-342
K	K450	-174	-214	-226	-201	-229	-228	-376	-436	-450
K	K500	-226	-162	-161	-195	-205	-205	-402	-364	-362
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-99.7	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.3	
ACTUAL	PX (KIPS)		-19.5			-0.			-19.1	
ACTUAL	PY (KIPS)		-0.			-19.1			-19.3	

TABLE 4F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSF COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

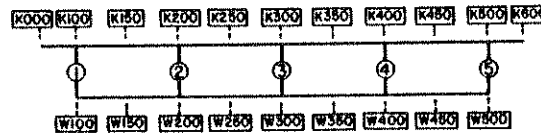
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		4X			4Y			4X+4Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	269	27	186	393	282	282	662	307	307
W	W100	269	186	185	393	206	205	662	411	409
W	W150	247	281	265	280	276	264	528	563	536
W	W200	267	292	301	260	314	321	527	617	632
W	W250	263	217	234	262	330	321	525	546	559
W	W300	206	233	231	271	406	405	477	655	654
W	W350	227	191	207	197	227	254	425	417	467
W	W400	359	239	234	252	363	356	611	611	601
W	W450	343	302	315	83	287	317	427	584	623
W	W500	397	212	215	-39	157	164	357	368	378
W	W600	397	329	212	-39	227	227	357	552	552
K	K100	-130	-162	-161	-187	-183	-186	-317	-344	-345
K	K150	-140	-194	-198	-158	-226	-202	-299	-419	-410
K	K200	-158	-164	-159	-152	-173	-201	-311	-333	-344
K	K250	-157	-161	-158	-150	-202	-188	-317	-355	-350
K	K300	-129	-153	-169	-148	-236	-158	-277	-389	-365
K	K350	-143	-198	-159	-116	-99	-124	-260	-310	-327
K	K400	-153	-131	-147	-102	-173	-112	-255	-294	-274
K	K450	-155	-164	-157	-46	-108	-117	-201	-265	-271
K	K500	-156	-139	-140	-5	-36	-36	-161	-163	-163
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-99.7	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.3	
ACTUAL	PX (KIPS)		-19.5			-0			-19.1	
ACTUAL	PY (KIPS)		0.			-19.1			-19.3	



**TABLE 4G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

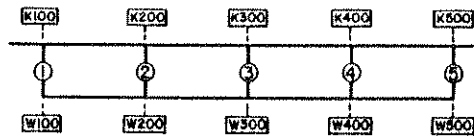
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		4 X			4 Y			4 X + 4 Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	56	33	33	-270	-173	-173	-214	-148	-148
K	K100	65	38	38	-325	-226	-228	-259	-190	-192
K	K150	54	35	40	-285	-236	-240	-230	-204	-211
K	K200	54	44	44	-308	-304	-303	-253	-266	-265
K	K250	53	38	41	-331	-284	-303	-277	-250	-264
K	K300	53	44	44	-373	-326	-325	-320	-286	-289
K	K350	53	41	41	-412	-336	-349	-359	-300	-312
K	K400	53	44	46	-428	-356	-374	-375	-311	-327
K	K450	53	53	54	-430	-357	-365	-376	-314	-321
K	K500	62	50	57	-484	-395	-384	-421	-347	-338
K	K600	52	64	64	-396	-452	-452	-344	-394	-394
W	W100	-175	-196	-201	848	1158	1158	673	963	959
W	W150	-189	-148	-146	962	807	821	772	644	662
W	W200	-210	-207	-201	1155	1110	1109	944	893	897
W	W250	-208	-186	-177	1241	1088	1056	1032	914	878
W	W300	-206	0	-170	1398	0	1139	1191	0	958
W	W350	-197	-117	-119	1490	899	975	1292	774	846
W	W400	-187	-5	-7	1490	855	850	1302	806	801
W	W450	-163	-90	-205	1358	774	1602	1195	666	1392
W	W500	-143	-101	-93	1207	964	951	1064	860	850
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-99.7	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.3	
ACTUAL	PX (KIPS)		-19.5			-0.			-19.1	
ACTUAL	PY (KIPS)		-0.			-19.1			-19.3	

**TABLE 4H**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



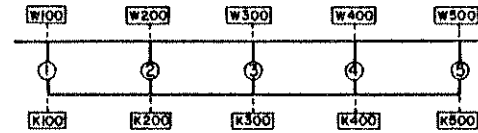
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		4X			4Y			4X+4Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-25	-41		54	29		29	-10	
K	K200	-45	-80		59	47		14	-36	
K	K300	-78	-79		71	50		-7	-31	
K	K400	-124	-123		79	75		-44	-52	
K	K500	-270	-210		103	70		-166	-141	
W	W100	23	74		-69	-43		-46	32	
W	W200	61	302		-75	-141		-14	184	
W	W300	104	244		-86	-173		17	97	
W	W400	157	398		-97	-97		59	325	
W	W500	308	822		-112	-168		195	676	
SECTION F										
K	K100	-178	-157		90	69		-98	-95	
K	K200	-197	-234		88	90		-108	-160	
K	K400	-528	-855		106	114		-421	-768	
K	K500	-371	-308		138	114		-233	-205	
W	W100	190	424		-98	-130		92	287	
W	W200	247	509		-110	-179		137	370	
W	W400	646	938		-133	-184		512	725	
W	W500	432	1304		-148	-206		284	1093	

**TABLE 4I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



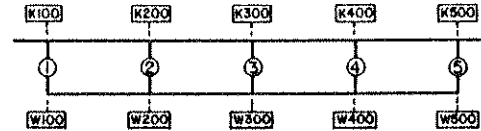
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		4X			4Y			4X+4Y		
GAGE TYPE	GAGE LOC.	*****			*****			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-189	-101		145	92		-44	-11	
W	W200	-107	-111		132	179		25	49	
W	W300	-38	16		175	411		97	406	
W	W400	26	127		147	341		173	492	
W	W500	72	265		170	406		243	698	
K	K100	193	427		-151	-276		42	123	
K	K200	130	94		-164	-165		-34	-56	
K	K300	51	14		-168	-166		-116	-138	
K	K400	-25	-70		-181	-161		-207	-221	
K	K500	-78	-96		-182	-213		-261	-299	
SECTION K										
W	W100	126	191		56	125		142	341	
W	W200	107	186		5	65		112	265	
W	W300	104	180		-48	0		56	173	
W	W400	100	297		-110	-227		-10	-5	
W	W500	104	117		-302	-303		-198	-173	
K	K100	-133	-161		-55	-90		-188	-230	
K	K200	-130	-138		1	-44		-129	-172	
K	K300	-129	-134		64	19		-64	-107	
K	K400	-125	-128		141	17		36	-94	
K	K500	-108	-139		333	458		224	308	

TABLE 4J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI CCND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	4X			4Y			4X+4Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	92	79		-286	-291		-194	-207	
K	K200	65	70		-304	-324		-238	-263	
K	K400	42	36		-305	-255		-263	-227	
K	K500	38	32		-327	-216		-288	-187	
W	W100	-99	-207		302	698		202	471	
W	W200	-82	-170		370	861		287	655	
W	W400	-53	-180		391	1391		337	1244	
W	W500	-41	-191		363	1635		321	1471	
SECTION I										
K	K100	51	20		-311	-178		-260	-159	
K	K200	30	20		-244	-225		-214	-206	
K	K300	21	9		-206	-169		-184	-162	
K	K400	14	7		-145	-107		-131	-103	
K	K500	11	7		-128	-79		-116	-73	
W	W100	-55	-64		335	471		290	406	
W	W200	-37	-53		297	763		259	682	
W	W300	-26	-53		252	509		225	460	
W	W400	-19	-21		188	368		169	357	
W	W500	-12	-11		155	157		142	157	

**TABLE 4K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	4X				4Y				4X+4Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	85.5	17.4	71.2	13.4	-32.6	19.2	-18.1	16.0	53.0	16.4	58.8	15.4
A	2	93.5	19.0	97.0	18.3	-34.4	20.3	-25.9	22.8	59.1	18.3	72.1	18.8
A	3	96.4	19.6	116.1	21.9	-34.5	20.3	-25.7	22.6	61.9	19.2	94.4	24.7
A	4	117.9	23.9	182.1	34.4	-34.5	20.4	-27.0	23.8	83.4	25.8	103.4	27.0
A	5	99.5	20.2	63.4	12.0	-33.5	19.8	-16.8	14.8	66.0	20.4	54.1	14.1
A	SUM	492.8		529.7		-169.4		-113.5		323.4		382.9	
D	1	-19.1	20.3	-17.2	21.2	95.4	15.2	98.2	16.5	76.3	14.3	80.4	15.9
D	2	-19.2	20.4	-23.5	28.8	109.6	17.4	131.7	22.1	90.4	16.9	106.9	21.2
D	3	-18.9	20.0	-19.5	23.9	132.8	21.1	130.1	21.8	113.9	21.3	109.7	21.7
D	4	-18.8	19.9	-7.4	9.0	150.9	24.0	117.9	19.8	132.1	24.7	105.7	20.9
D	5	-18.2	19.4	-13.9	17.1	140.1	22.3	117.5	19.7	121.9	22.8	102.4	20.3
D	SUM	-94.3		-81.5		628.8		595.4		534.6		505.2	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	62.7	12.8	131.2	28.3	-22.8	13.5	-57.3	31.7	39.9	12.4	90.6	28.4
A	2	107.8	22.0	87.2	18.8	-40.5	24.1	-36.6	20.3	67.2	20.9	57.1	17.9
A	3	109.7	22.4	82.6	17.8	-40.6	24.1	-34.3	19.0	69.0	21.4	50.7	15.9
A	4	134.0	27.3	84.8	18.3	-40.9	24.3	-29.3	16.2	93.2	28.9	62.4	19.5
A	5	76.3	15.6	77.8	16.8	-23.6	14.0	-23.1	12.8	52.7	16.4	58.8	18.4
A	SUM	490.4		463.6		-168.4		-190.7		322.0		319.5	
D	1	-13.6	14.5	-14.0	14.7	66.5	10.6	82.0	12.7	52.9	9.9	69.4	12.4
D	2	-22.9	24.3	-17.0	18.0	124.9	19.9	117.2	18.2	102.0	19.2	102.1	18.2
D	3	-22.4	23.9	-17.3	18.3	150.7	24.1	132.3	23.6	129.4	24.1	116.9	20.8
D	4	-22.3	23.7	-22.7	24.0	176.1	28.1	155.1	24.1	153.9	28.9	135.7	24.2
D	5	-12.7	13.6	-23.8	25.0	127.7	17.2	156.9	24.4	95.0	17.9	137.4	24.5
D	SUM	-93.7		-94.9		625.9		643.5		532.2		561.5	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-.1		-100.0		-99.7	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.3	
ACTUAL	PX (KIPS)			-19.5				-.0				-19.1	
ACTUAL	PY (KIPS)			0.				-19.1				-19.3	

**TABLE 4L**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

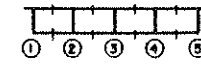
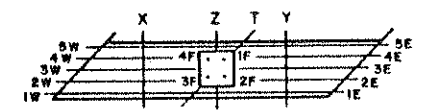
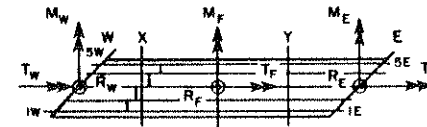
SECTION	GIRDER	4 X				4 Y				4 X+4 Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL				
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	72.7	14.8	102.0	20.7	-27.1	16.0	-38.4	26.0	45.7	14.2	75.0	21.6
A	2	101.5	20.6	91.4	18.6	-37.8	22.4	-31.3	21.2	63.6	19.7	64.0	18.4
A	3	103.8	21.1	98.0	19.9	-37.9	22.5	-30.0	20.3	65.9	20.4	71.1	20.4
A	4	126.9	25.8	130.4	26.5	-38.1	22.6	-28.1	19.0	88.9	27.5	81.6	23.4
A	5	86.5	17.6	70.6	14.3	-28.0	16.6	-20.0	13.5	58.5	18.1	56.3	16.2
A	SUM	491.5		492.4		-168.9		-147.9		322.6		348.0	
D	1	-16.0	17.0	-15.7	17.9	79.2	12.6	90.5	14.7	63.2	11.8	75.1	14.1
D	2	-21.2	22.6	-20.5	23.3	118.1	18.8	124.9	20.2	96.9	18.2	104.7	19.7
D	3	-20.8	22.2	-18.5	21.1	142.9	22.8	131.1	21.2	122.0	22.9	113.0	21.3
D	4	-20.7	22.1	-14.6	16.6	165.0	26.3	135.3	21.9	144.3	27.1	119.7	22.5
D	5	-15.1	16.1	-18.5	21.1	122.0	19.4	135.9	22.0	106.8	20.0	118.7	22.3
D	SUM	-94.0		-87.8		627.2		617.7		533.2		531.3	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	72.6	14.8	89.6	18.2	-27.1	16.1	-35.9	26.3	45.5	14.1	66.5	19.1
A	2	101.3	20.6	87.4	17.7	-37.8	22.4	-28.2	20.6	63.5	19.7	63.0	18.1
A	3	103.7	21.1	99.3	20.1	-37.9	22.4	-27.2	19.9	65.8	20.5	78.1	22.4
A	4	126.7	25.8	150.2	30.5	-38.0	22.5	-26.1	19.1	88.7	27.6	86.1	24.7
A	5	86.3	17.6	66.6	13.5	-28.0	16.6	-19.1	14.0	58.3	18.1	54.6	15.7
A	SUM	490.5		493.1		-168.8		-136.6		321.8		348.4	
D	1	-16.0	17.1	-16.3	16.7	79.4	12.7	93.4	15.4	63.4	11.9	76.8	14.9
D	2	-21.2	22.6	-21.8	22.3	117.9	18.8	126.3	20.9	96.7	18.2	104.1	20.2
D	3	-20.8	22.2	-18.7	19.1	142.6	22.8	128.4	21.2	121.8	22.9	109.6	21.3
D	4	-20.7	22.0	-23.4	23.9	164.8	26.3	128.8	21.3	144.1	27.1	113.7	22.1
D	5	-15.2	16.2	-17.7	18.1	121.6	19.4	127.8	21.1	106.4	20.0	111.4	21.6
D	SUM	-94.0		-98.0		626.3		604.7		532.4		515.7	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-.		-100.0		-99.7	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.3	
ACTUAL	PX (KIPS)			-19.5				-.				-19.1	
ACTUAL	PY (KIPS)			-0.				-19.1				-19.3	

**TABLE 5A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS  
 RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	5X		5Y		5X+5Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	-9.37	-10.75	-17.22	-17.55	-26.59	-25.15
2E	-3.21	-4.03	4.43	7.58	1.23	-2.66
3E	.04	.91	14.65	12.26	14.70	12.35
4E	1.60	2.81	16.67	21.87	19.27	24.36
5E	2.42	2.03	13.95	12.83	16.37	15.12
1F	11.69	11.16	70.62	81.33	82.31	92.02
2F	-5.32	-10.28	4.74	5.45	-4.58	-5.69
3F	16.28	18.85	-34.12	-42.90	-17.84	-24.18
4F	33.29	42.55	31.76	34.75	65.05	77.90
1W	-10.65	-9.93	-6.80	-4.52	-17.45	-14.47
2W	-7.19	-5.70	-7.24	-6.49	-14.43	-11.61
3W	.06	-1.23	-5.57	-6.18	-5.51	-8.13
4W	17.39	18.06	.51	.62	17.90	20.00
5W	52.95	50.79	13.61	10.39	66.56	62.03
RE	-8.51	-9.13	32.48	32.98	23.98	24.02
RF	55.94	62.28	73.00	78.63	128.94	140.05
RW	52.56	51.99	-5.48	-6.18	47.08	47.82
SUMP	100.00	105.14	100.00	105.43	200.00	211.89
PX	-100.00	-100.00	0.	-.06	-100.00	-100.45
PY	0.	0.	-100.00	-100.00	-100.00	-99.55
SUMP	-100.00	-100.00	-100.00	-100.06	-200.00	-200.00
SUMP/SUMP	1.00	1.05	1.00	1.05	1.00	1.05
TW=-MW	330.26	373.37	124.87	94.96	515.14	474.71
WF	64.80	90.78	-116.60	-142.41	-51.81	-48.92
YF	51.02	67.71	197.65	230.29	248.67	299.68
TE=-ME	73.00	83.31	191.76	203.27	264.76	276.58
ACTUAL PX		-19.52		-.01		-19.38
ACTUAL PY		0.		-19.25		-19.21



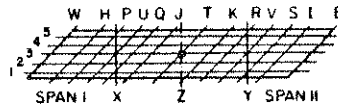
5A

**TABLE 5B**

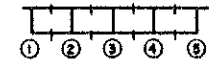
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	5X			5Y			5X+5Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.107	-.224	2.10	.308	.355	1.15	.201	.136	.68
3H	-.216	-.365	1.69	.232	.274	1.18	.016	-.087	-5.61
5H	-.528	-.706	1.34	.083	.119	1.43	-.445	-.619	1.39
1P	-.208	-.410	1.97	.466	.566	1.21	.257	.157	.61
3P	-.357	-.583	1.64	.324	.403	1.24	-.033	-.198	6.06
1X	-.307	-.526	1.71	.645	.748	1.16	.338	.231	.68
2X	-.361			.502			.141		
3X	-.430	-.683	1.59	.363	.441	1.21	-.067	-.250	3.75
4X	-.516			.226			-.290		
5X	-.708	-1.084	1.53	.093	.147	1.58	-.615	-.972	1.58
1U	-.287	-.527	1.83	.580	.684	1.18	.293	.178	.61
5U	-.585	-.840	1.44	.042	.106	2.50	-.542	-.771	1.42
3Q	-.381	-.549	1.44	.344	.417	1.21	-.038	-.160	4.23
5Q	-.408	-.549	1.35	-.077	-.017	.22	-.485	-.606	1.25
1J	-.244	-.370	1.52	.651	.742	1.14	.407	.365	.90
3J	-.233	-.314	1.35	.258	.317	1.23	.025	-.045	-1.79
5J	-.213	-.020	.09	-.270	.016	-.06	-.483	-.053	.11
1T	-.044	-.079	1.78	.529	.592	1.12	.485	.533	1.10
2T	-.021			.272			.250		
4T	.006			-.327			-.321		
5T	.009	.009	1.04	-.704	-.811	1.15	-.695	-.813	1.17

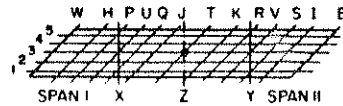


**TABLE 5C**

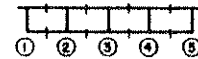
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

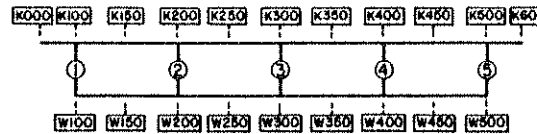
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	SX			SY			SX+SY		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	.115	.164	1.42	.237	.196	.83	.352	.392	1.11
7K	.109	.161	1.47	-.409	-.559	1.37	-.300	-.372	1.24
5K	.387	.141	1.63	-1.298	-1.643	1.27	-1.211	-1.491	1.23
1P	.164	.250	1.53	.005	-.127		.168	.170	1.01
3P	.132	.207	1.57	-.657	-.904	1.38	-.525	-.672	1.28
1Y	.149	.230	1.54	-.281	-.522	1.86	-.132	-.221	1.67
2Y	.135			-.514			-.379		
3Y	.123	.189	1.54	-.789	-1.110	1.41	-.666	-.875	1.31
4Y	.109			-1.130			-1.021		
5Y	.093	.160	1.72	-1.572	-2.142	1.36	-1.479	-1.946	1.32
1V	.173	.258	1.49	-.185	-.388	2.10	-.012	-.070	5.81
5V	.078	.151	1.94	-1.461	-1.961	1.34	-1.383	-1.783	1.29
3S	.093	.157	1.69	-.756	-1.057	1.40	-.664	-.871	1.31
5S	.053	.108	2.04	-1.161	-1.494	1.29	-1.109	-1.354	1.22
1I	.102	.160	1.57	-.252	-.426	1.69	-.150	-.236	1.57
3I	.053	.086	1.62	-.550	-.771	1.39	-.505	-.657	1.30
5I	.026	.062	2.36	-.758	-.976	1.29	-.731	-.893	1.22
LOAD PX	-100.0	-100.0		0.	-.1		-100.0	-100.5	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL PX					-.0			-19.4	
ACTUAL PY					-19.3			-19.2	

TABLE 5D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER TO KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

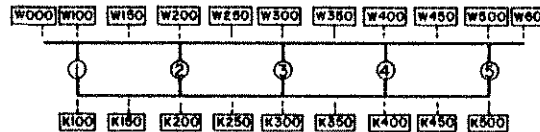
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-175	-1143	-297	116	758	218	-58	-505	-104
K	K100	-201	-302	-333	137	218	223	-63	-107	-115
K	K150	-174	-276	-235	119	171	161	-55	-157	-137
K	K200	-190	-164	-171	121	119	124	-69	-150	-153
K	K250	-183	-156	-168	120	135	124	-62	-150	-158
K	K300	-185	-251	-180	120	119	124	-65	-150	-157
K	K350	-221	-159	-188	120	114	114	-101	-180	-163
K	K400	-277	-301	-223	120	109	103	-156	-210	-184
K	K450	-334	-270	-307	120	103	109	-213	-170	-210
K	K500	-461	-352	-323	142	114	109	-318	-246	-185
K	K600	-430	-84	-84	120	31	31	-309	-79	-81
W	W100	438	733	723	-315	-347	-347	122	364	352
W	W150	510	595	658	-366	-238	-233	144	353	423
W	W200	643	595	638	-427	-306	-301	216	257	294
W	W250	659	526	672	-442	-280	-270	216	486	495
W	W300	718	955	925	-463	-301	-296	254	636	637
W	W350	875	743	739	-465	-207	-212	409	524	541
W	W400	1118	1125	1075	-467	-264	-275	651	786	752
W	W450	1290	1205	1185	-416	-238	-264	874	962	846
W	W500	1362	472	561	-374	-161	-161	988	310	329
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-100.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-19.5			-0.			-19.4	
ACTUAL	PY (KIPS)		-0.			-19.3			-19.2	

**TABLE 5E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

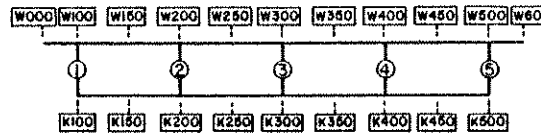
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASP	ADJUST	THEORY	MEASP	ADJUST	THEORY	MEASP	ADJUST
W	W100	-103	154	-16	538	197	436	435	358	396
W	W150	-103	-16	-14	538	436	428	435	396	392
W	W200	-9	37	42	444	280	275	435	321	322
W	W250	98	111	111	439	306	311	538	412	415
W	W300	163	234	216	339	259	249	503	486	463
W	W350	289	340	262	328	270	280	617	609	552
W	W400	266	287	303	371	285	306	638	588	623
W	W450	275	340	340	387	493	483	662	834	823
W	W500	292	377	337	398	368	332	690	754	683
W	W600	416	393	385	525	441	444	942	839	836
W	W600	416	334	334	525	446	446	942	780	780
K	K100	38	-33	-33	-212	-207	-207	-173	-231	-232
K	K150	1	-101	-99	-197	-285	-270	-196	-356	-342
K	K200	-39	-54	-55	-185	-176	-197	-225	-214	-226
K	K250	-79	-116	-117	-177	-202	-155	-256	-302	-277
K	K300	-167	-270	-177	-209	-135	-155	-377	-357	-360
K	K350	-154	-134	-161	-221	-202	-171	-376	-323	-347
K	K400	-164	-195	-153	-231	-171	-181	-396	-351	-321
K	K450	-171	-227	-249	-228	-197	-197	-400	-410	-428
K	K500	-210	-167	-165	-265	-244	-244	-475	-399	-396
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-100.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-19.5			-0.			-19.4	
ACTUAL	PY (KIPS)		0.			-19.3			-19.2	

TABLE 5F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 10 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

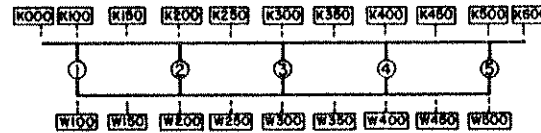
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	265	-27	170	430	716	202	695	267	267
W	W100	265	170	170	430	202	202	695	380	379
W	W150	233	255	236	301	270	264	534	513	493
W	W200	243	271	276	269	296	303	512	556	570
W	W250	233	191	214	255	316	290	488	486	483
W	W300	163	202	203	233	436	431	396	625	620
W	W350	205	175	184	166	197	233	372	358	407
W	W400	328	218	204	191	296	293	520	508	500
W	W450	312	244	235	126	420	441	439	674	707
W	W500	359	165	173	151	337	342	510	502	510
W	W600	359	271	165	151	472	472	510	732	732
K	K100	-131	-141	-140	-202	-202	-212	-334	-335	-337
K	K150	-135	-159	-165	-169	-254	-181	-304	-398	-381
K	K200	-146	-151	-141	-157	-181	-249	-303	-316	-337
K	K250	-140	-148	-151	-146	-186	-171	-287	-329	-320
K	K300	-101	-147	-163	-125	-197	-45	-226	-324	-290
K	K350	-130	-206	-150	-102	-5	-5	-232	-202	-226
K	K400	-140	-118	-132	-85	-88	-46	-226	-203	-184
K	K450	-143	-153	-144	-79	-77	-88	-222	-226	-235
K	K500	-141	-118	-119	-101	-207	-192	-242	-299	-296
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-19.5			-.0			-19.4	
ACTUAL	PY (KIPS)		0.			-19.3			-19.2	

**TABLE 5G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

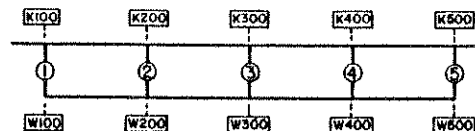
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	36	17	17	-295	-197	-197	-259	-164	-164
K	K100	42	20	19	-350	-254	-257	-308	-211	-213
K	K150	34	13	34	-303	-264	-270	-268	-234	-231
K	K200	33	25	25	-320	-322	-322	-296	-280	-279
K	K250	33	17	18	-337	-296	-316	-304	-268	-279
K	K300	32	28	27	-369	-327	-327	-337	-288	-288
K	K350	32	22	23	-401	-327	-332	-368	-293	-298
K	K400	32	25	26	-456	-415	-420	-424	-376	-375
K	K450	32	44	38	-508	-394	-420	-475	-351	-375
K	K500	38	49	47	-644	-457	-459	-606	-407	-412
K	K600	32	50	50	-580	-649	-649	-548	-604	-604
W	W100	-112	-181	-186	870	1204	1199	757	984	975
W	W150	-119	-106	-90	1000	836	856	981	674	724
W	W200	-130	-159	-152	1198	1137	1137	1057	951	961
W	W250	-128	-117	-128	1275	1095	1069	1146	984	944
W	W300	-126	0	-148	1412	0	1168	1285	0	1219
W	W350	-120	-106	-106	1498	981	1090	1377	882	982
W	W400	-114	-16	-14	1666	1376	1363	1552	1395	1406
W	W450	-109	-85	-186	1695	841	1464	1594	791	1346
W	W500	-88	-53	-53	1608	877	893	1520	802	855
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-100.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-10.5			-0.0			-19.4	
ACTUAL	PY (KIPS)		0.			-19.3			-19.2	

TABLE 5H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, F, F, G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

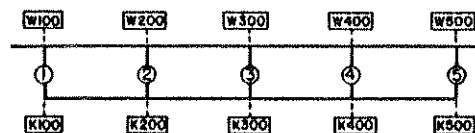
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	20	-15		78	41		98	29	
K	K200	7	-43		83	62		91	20	
K	K300	-20	-37		98	72		78	29	
K	K400	-91	-83		105	103		14	11	
K	K500	-243	-168		133	88		-110	-95	
W	W100	-34	15		-99	-57		-134	-59	
W	W200	-3	175		-105	-202		-109	0	
W	W300	36	149		-117	-229		-80	-79	
W	W400	120	499		-130	-124		-10	385	
W	W500	259	802		-144	-207		114	620	
SECTION F										
K	K100	-105	-118		117	88		11	-33	
K	K200	-133	-178		112	114		-20	-76	
K	K400	-274	-385		127	140		-146	-263	
K	K500	-319	-246		163	140		-156	-114	
W	W100	104	292		-127	-181		-22	102	
W	W200	163	366		-140	-249		22	134	
W	W400	365	987		-161	-254		203	754	
W	W500	334	1937		-175	-228		159	1737	

5H

**TABLE 51**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,E,G



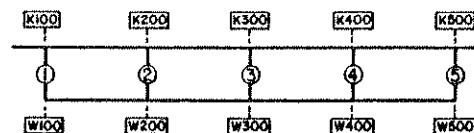
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	-171	-117		169	103		-3	-11	
W	W200	-101	-122		151	238		49	49	
W	W300	-40	-32		151	451		111	385	
W	W400	29	111		164	389		194	465	
W	W500	69	239		185	431		254	690	
K	K100	179	328		-175	-358		4	-18	
K	K200	123	97		-188	-192		-64	-73	
K	K300	50	57		-188	-192		-137	-110	
K	K400	-31	-80		-201	-171		-233	-230	
K	K500	-71	-80		-192	-218		-264	-275	
SECTION K										
W	W100	116	159		58	119		175	299	
W	W200	91	154		-4	41		87	203	
W	W300	90	159		-65	-15		25	134	
W	W400	84	260		-148	-264		-63	-27	
W	W500	84	117		-306	-244		-221	-128	
K	K100	-123	-154		-54	-93		-178	-232	
K	K200	-112	-112		13	-46		-98	-147	
K	K300	-111	-113		85	83		-26	-31	
K	K400	-106	-107		183	212		77	81	
K	K500	-88	-116		306	379		217	143	

TABLE 5J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	70	65		-294	-322		-223	-236	
K	K200	46	56		-305	-337		-258	-271	
K	K400	20	17		-395	-358		-374	-335	
K	K500	14	19		-338	-192		-324	-174	
W	W100	-76	-196		292	690		215	438	
W	W200	-58	-175		369	862		310	625	
W	W400	-26	-143		507	1578		481	1459	
W	W500	-14	-133		351	2446		337	2415	
SECTION I										
K	K100	25	2		-351	-212		-326	-188	
K	K200	6	3		-292	-270		-286	-261	
K	K300	-3	-12		-275	-228		-278	-240	
K	K400	-7	-10		-218	-191		-226	-185	
K	K500	-10	-4		-174	-114		-184	-112	
W	W100	-26	-48		371	529		344	422	
W	W200	-7	-11		355	872		347	829	
W	W300	2	-32		333	649		335	599	
W	W400	8	21		274	644		282	700	
W	W500	14	16		216	228		231	225	



**TABLE 5K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 70 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



I KIP = 4.448 kN  
IFT = 0.305 m

IFT-KIP = 1.356 kN-m  
IFT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				5Y				5X+5Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	59.7	14.2	58.1	13.5	-40.3	19.2	-22.9	17.1	19.5	9.2	34.0	11.8
A	2	66.0	15.6	74.5	17.3	-42.7	20.3	-31.3	23.4	23.3	11.0	43.2	15.0
A	3	68.5	16.2	93.5	21.7	-42.6	20.3	-29.8	22.3	25.8	12.2	66.6	23.2
A	4	97.8	23.2	129.7	30.1	-42.7	20.4	-31.8	23.8	55.0	25.9	92.2	32.1
A	5	130.0	30.8	75.4	17.5	-41.4	19.7	-18.1	13.5	88.5	41.7	51.0	17.8
A	SUM	421.9		431.2		-209.7		-133.9		212.2		286.9	
D	1	-12.2	20.9	-13.7	20.6	103.3	14.9	102.1	16.4	91.1	14.3	84.1	15.8
D	2	-11.9	20.4	-16.6	25.0	114.1	16.4	135.1	21.8	102.2	16.1	115.7	21.7
D	3	-11.5	19.7	-16.2	24.5	131.2	18.9	133.9	21.6	119.7	18.8	118.0	22.2
D	4	-11.4	19.6	-8.7	13.1	160.8	23.2	146.0	23.5	149.4	23.5	133.2	25.0
D	5	-11.3	19.4	-11.1	16.8	184.8	26.6	103.6	16.7	173.6	27.3	81.3	15.3
D	SUM	-58.3		-66.2		694.2		620.8		635.9		532.3	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	38.8	9.3	101.5	26.1	-28.2	13.5	-72.1	31.3	10.6	5.1	38.7	14.8
A	2	73.8	17.6	63.2	16.3	-50.2	24.1	-46.4	20.1	23.6	11.2	52.0	19.8
A	3	80.3	19.2	60.2	15.5	-50.2	24.1	-44.2	19.2	30.1	14.3	54.4	20.8
A	4	123.3	29.4	79.5	20.5	-50.6	24.3	-38.1	16.5	72.7	34.5	63.4	24.2
A	5	102.6	24.5	84.3	21.7	-29.2	14.0	-20.5	12.8	73.4	34.9	53.6	20.4
A	SUM	419.8		388.6		-208.5		-230.4		210.3		262.2	
D	1	-8.7	14.9	-8.2	13.8	68.1	9.9	92.3	13.0	59.4	9.4	77.4	12.4
D	2	-14.2	24.5	-10.0	16.8	129.3	18.7	125.0	17.6	115.1	18.2	108.7	17.3
D	3	-13.7	23.7	-8.9	15.0	152.9	22.2	131.3	18.4	130.2	22.0	116.5	18.6
D	4	-13.6	23.4	-13.0	21.9	198.7	28.8	162.5	22.8	185.1	29.3	143.6	22.9
D	5	-7.8	13.5	-19.3	32.5	140.8	20.4	200.0	28.2	133.0	21.1	180.6	28.8
D	SUM	-58.0		-59.4		689.8		712.0		631.8		626.8	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-0.1		-100.0		-100.5	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.5	
ACTUAL	PX (KIPS)			-10.5				-0.				-19.4	
ACTUAL	PY (KIPS)			-0.				-19.3				-19.2	

5K

TABLE 5L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
[KIP-FT AND PERCENTAGE]

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

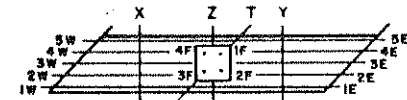
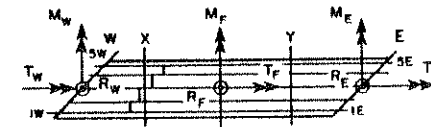
SECTION	GIRDER	5X				5Y				5X+5Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	48.0	11.4	80.3	19.7	-37.5	16.0	-48.4	26.4	14.5	6.9	36.3	17.3
A	2	70.4	16.7	68.2	16.8	-46.9	22.4	-39.0	21.3	23.5	11.1	47.6	17.5
A	3	75.1	17.9	75.6	18.6	-46.9	22.4	-37.2	20.3	28.2	13.4	59.9	22.0
A	4	112.1	26.7	102.9	25.3	-47.2	22.6	-35.0	19.1	64.9	30.7	76.8	28.2
A	5	114.6	27.3	79.7	19.6	-34.6	16.5	-24.0	13.1	80.0	37.9	52.1	19.1
A	SUM	420.2		406.8		-209.1		-183.4		211.1		272.6	
D	1	-10.2	17.5	-11.1	17.9	87.5	12.1	97.4	14.7	73.3	11.6	80.9	14.0
D	2	-13.2	22.7	-13.5	21.8	122.6	17.7	130.4	19.7	109.4	17.3	112.4	19.5
D	3	-12.8	22.0	-12.8	20.7	141.4	20.7	132.6	20.0	130.6	20.6	117.3	20.4
D	4	-12.6	21.8	-10.7	17.2	182.1	26.3	153.7	23.2	169.4	26.7	138.0	23.9
D	5	-9.3	16.1	-13.9	22.4	160.2	23.2	149.1	22.5	150.8	23.8	127.6	22.1
D	SUM	-58.1		-62.1		691.7		663.1		633.6		576.1	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	48.4	11.5	71.5	17.8	-37.6	16.1	-44.8	26.6	15.0	7.1	33.1	12.5
A	2	70.2	16.7	66.1	16.4	-46.9	22.4	-34.9	20.7	23.5	11.1	45.2	17.0
A	3	75.0	17.9	78.9	19.6	-46.8	22.4	-33.6	19.9	28.1	13.3	58.5	22.0
A	4	112.1	26.7	108.5	27.0	-47.1	22.5	-31.9	19.0	65.0	30.8	74.3	29.5
A	5	114.9	27.2	77.1	19.2	-34.6	16.6	-23.2	13.8	79.5	37.7	50.5	19.0
A	SUM	419.7		402.1		-209.0		-168.4		211.1		265.7	
D	1	-10.2	17.5	-12.8	18.3	84.2	12.2	98.3	15.2	74.0	11.7	81.3	14.6
D	2	-13.2	22.7	-15.2	21.8	122.4	17.7	130.6	20.2	109.2	17.2	112.2	20.1
D	3	-12.8	21.9	-14.7	21.1	143.1	20.7	131.0	20.3	130.4	20.6	115.7	20.8
D	4	-12.6	21.7	-11.8	17.0	182.1	26.3	147.9	22.9	169.4	26.8	133.3	23.9
D	5	-9.4	16.1	-15.1	21.7	159.5	23.1	137.7	21.3	150.2	23.7	114.7	20.6
D	SUM	-58.1		-69.6		691.3		645.5		633.2		557.2	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-.1		-100.0		-100.5	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.5	
ACTUAL	PX (KIPS)			-19.5				-.0				-19.4	
ACTUAL	PY (KIPS)			-0.				-19.3				-19.2	

**TABLE 6A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 30 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	1X+5Y		5X+1Y		*****	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	-3.55	-7.66	44.70	40.29		
2E	4.95	4.89	13.61	16.11		
3E	9.09	7.86	-0.78	-1.22		
4F	9.43	13.71	-5.79	-7.25		
5E	7.14	7.62	-7.57	-5.52		
1F	36.65	36.92	27.69	30.01		
2F	36.22	37.05	27.64	24.16		
3F	36.31	42.37	28.17	29.59		
4F	36.74	37.18	28.21	33.34		
1W	7.07	6.52	-8.32	-6.98		
2W	9.38	9.50	-5.62	-5.22		
3W	9.34	13.54	.12	-0.30		
4W	5.28	4.33	14.25	16.10		
5W	-4.05	-7.37	43.69	40.73		
RF	27.06	26.42	44.17	42.41		
RF	145.93	153.52	111.71	117.10		
RW	27.02	26.52	44.12	44.33		
SUMP	200.00	206.46	200.00	203.84		
DX	-100.00	-100.00	-100.00	-100.33		
DY	-100.00	-100.00	-100.00	-99.67		
SUMP	-200.00	-200.00	-200.00	-200.00		
SUMR/SUMP	1.00	1.03	1.00	1.02		
TW=-MW	-67.76	-84.73	318.52	300.19		
WF	.27	8.37	1.57	13.14		
TF	1.28	-7.99	.15	14.40		
TE=-ME	66.48	101.26	-318.67	-295.66		
ACTUAL DX		-10.63		-10.23		
ACTUAL DY		-10.63		-10.80		



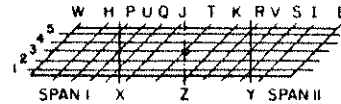
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 6B**

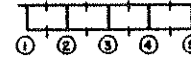
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

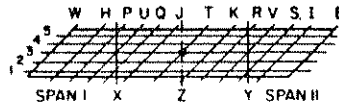
DEFLECTION AT POINT	1X+5Y *****			5X+1Y *****			*****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.427	-.608	1.42	-.080	-.155	1.93			
3H	-.339	-.523	1.54	-.164	-.267	1.63			
5H	-.190	-.277	1.46	-.426	-.572	1.34			
1P	-.647	-.962	1.45	-.155	-.284	1.83			
3P	-.460	-.722	1.57	-.265	-.412	1.55			
1X	-.849	-1.379	1.62	-.216	-.333	1.54			
2X	-.600			-.255					
3X	-.454	-.734	1.62	-.310	-.476	1.53			
4X	-.326			-.383					
5X	-.214	-.359	1.68	-.559	-.864	1.55			
1U	-.790	-1.254	1.59	-.210	-.356	1.73			
5U	-.157	-.271	1.72	-.414	-.580	1.40			
3Q	-.324	-.521	1.61	-.253	-.347	1.37			
5Q	-.075	-.124	1.66	-.250	-.374	1.34			
1J	-.607	-.913	1.50	-.159	-.212	1.33			
3J	-.155	-.249	1.61	-.127	-.177	1.40			
5J	-.031	-.085	2.72	-.106	.008	-.07			
1T	-.169	-.241	1.43	-.038	-.048	1.27			
2T	-.053			-.017					
4T	-.055			-.015					
5T	-.176	-.220	1.25	-.035	-.073	2.08			

**TABLE 6C**

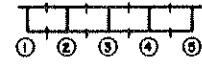
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

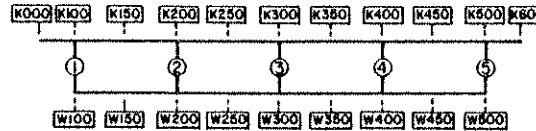
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1X45Y *****			5X41Y *****			*****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.074	-.057	1.68	-.113	-.116	1.03			
3K	-.151	-.237	1.57	-.113	-.150	1.43			
5K	-.647	-.875	1.35	-.137	-.233	1.70			
1R	-.074	-.144	1.95	-.285	-.379	1.19			
3R	-.314	-.477	1.52	-.223	-.318	1.42			
1Y	-.190	-.350	1.84	-.632	-.871	1.38			
2Y	-.288			-.407					
3Y	-.426	-.639	1.50	-.280	-.415	1.48			
4Y	-.629			-.215					
5Y	-.927	-1.367	1.47	-.188	-.325	1.73			
1V	-.145	-.275	1.90	-.496	-.674	1.28			
5V	-.880	-1.238	1.41	-.193	-.345	1.79			
3S	-.433	-.655	1.51	-.252	-.407	1.61			
5S	-.696	-.980	1.35	-.151	-.296	1.95			
1I	-.170	-.299	1.76	-.463	-.602	1.30			
3I	-.327	-.485	1.48	-.157	-.270	1.73			
5I	-.450	-.616	1.37	-.083	-.177	2.15			
LOAD PX	-100.0	-100.0		-100.0	-100.3				
LOAD PY	-100.0	-100.0		-100.0	-99.7				
ACTUAL PX		-19.6			-19.9				
ACTUAL PY		-19.6			-19.8				

**TABLE 6D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

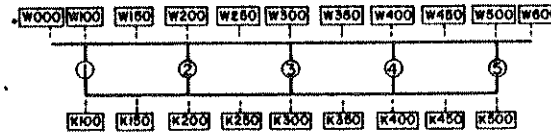
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-296	-1109	-449	-143	-812	-215			
K	K100	-357	-459	-490	-163	-222	-244			
K	K150	-336	-431	-395	-142	-209	-182			
K	K200	-329	-319	-322	-160	-138	-142			
K	K250	-305	-278	-300	-151	-129	-141			
K	K300	-312	-338	-283	-151	-205	-153			
K	K350	-259	-218	-244	-187	-144	-167			
K	K400	-230	-242	-209	-242	-264	-207			
K	K450	-212	-200	-217	-298	-249	-285			
K	K500	-245	-224	-213	-417	-331	-296			
K	K600	-218	-60	-60	-393	-97	-98			
W	W100	815	1251	1254	352	556	548			
W	W150	1103	992	1045	414	458	504			
W	W200	1181	1156	1160	536	473	506			
W	W250	1121	802	960	541	712	654			
W	W300	1158	1172	1152	586	775	750			
W	W350	963	692	678	741	603	618			
W	W400	856	729	731	982	899	885			
W	W450	714	602	661	1166	1019	953			
W	W500	639	248	295	1247	364	375			
LOAD	PX (KIPS)	-100.0	-100.0		-100.0	-100.3				
LOAD	PY (KIPS)	-100.0	-100.0		-100.0	-99.7				
ACTUAL	PX (KIPS)		-19.6			-19.9				
ACTUAL	PY (KIPS)		-19.6			-19.8				

**TABLE 6E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

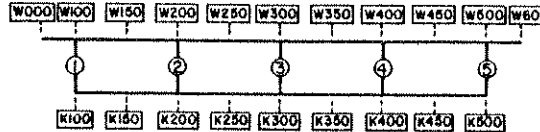
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	602	554	897	271	489	234			
W	W100	602	897	987	271	234	232			
W	W150	525	560	562	315	229	232			
W	W200	606	623	636	435	333	333			
W	W250	535	544	535	411	432	405			
W	W300	570	713	692	447	520	430			
W	W350	637	618	681	487	452	476			
W	W400	667	845	812	499	567	568			
W	W450	706	607	530	409	508	543			
W	W500	956	660	668	641	582	574			
W	W600	956	639	632	641	478	478			
K	K100	-272	-453	-454	-108	-136	-137			
K	K150	-252	-371	-367	-148	-298	-282			
K	K200	-258	-278	-282	-185	-149	-157			
K	K250	-277	-303	-271	-211	-243	-227			
K	K300	-340	-261	-297	-266	-345	-314			
K	K350	-175	-413	-330	-287	-240	-282			
K	K400	-396	-314	-341	-297	-317	-258			
K	K450	-403	-355	-344	-287	-386	-421			
K	K500	-468	-403	-405	-316	-286	-293			
LOAD	PX (KIPS)	-100.0	-100.0		-100.0	-100.3				
LOAD	PY (KIPS)	-100.0	-100.0		-100.0	-99.7				
ACTUAL	PX (KIPS)		-19.6			-19.9				
ACTUAL	PY (KIPS)		-19.6			-19.8				

TABLE 6F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

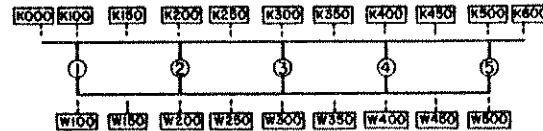
GAGE TYPE	GAGE LOC.	1 X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	913	660	660	727	135	541			
W	W100	913	538	531	727	541	543			
W	W150	678	702	679	552	655	618			
W	W200	645	649	673	530	743	751			
W	W250	623	560	540	496	572	647			
W	W300	563	739	729	432	463	470			
W	W350	452	396	459	317	317	348			
W	W400	635	565	558	386	338	320			
W	W450	572	771	803	271	260	252			
W	W500	687	607	615	227	109	119			
W	W600	687	919	607	227	109	109			
K	K100	-444	-476	-484	-366	-303	-300			
K	K150	-384	-618	-545	-326	-308	-327			
K	K200	-381	-372	-424	-321	-336	-287			
K	K250	-365	-368	-345	-297	-302	-334			
K	K300	-335	-352	-288	-258	-330	-352			
K	K350	-282	-187	-222	-194	-350	-267			
K	K400	-273	-247	-199	-162	-148	-161			
K	K450	-277	-270	-292	-125	-168	-161			
K	K500	-313	-392	-384	-87	-112	-113			
LOAD	PX (KIPS)	-100.0	-100.0		-100.0	-100.3				
LOAD	PY (KIPS)	-100.0	-100.0		-100.0	-99.7				
ACTUAL	PX (KIPS)		-19.6			-19.9				
ACTUAL	PY (KIPS)		-19.6			-19.8				



**TABLE 6G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

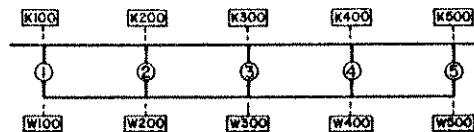
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-174	-115	-115	-387	-234	-234			
K	K100	-207	-148	-150	-417	-268	-274			
K	K150	-182	-151	-160	-314	-216	-260			
K	K200	-200	-201	-201	-262	-218	-219			
K	K250	-217	-179	-199	-209	-170	-186			
K	K300	-249	-225	-228	-179	-150	-152			
K	K350	-281	-220	-227	-150	-127	-129			
K	K400	-337	-296	-300	-135	-122	-125			
K	K450	-389	-312	-334	-120	-111	-112			
K	K500	-506	-363	-364	-134	-118	-115			
K	K600	-463	-537	-537	-112	-123	-123			
W	W100	494	829	840	1225	1383	1416			
W	W150	594	560	540	1216	988	992			
W	W200	733	792	778	1066	1087	1063			
W	W250	812	750	745	826	743	742			
W	W300	959	0	850	682	0	615			
W	W350	1057	729	805	532	411	451			
W	W400	1243	1170	1105	445	629	619			
W	W450	1329	628	1245	333	312	351			
W	W500	1288	628	671	266	369	406			
LOAD	PX (KIPS)	-100.0	-100.0		-100.0	-100.3				
LOAD	PY (KIPS)	-100.0	-100.0		-100.0	-99.7				
ACTUAL	PX (KIPS)		-19.6			-19.9				
ACTUAL	PY (KIPS)		-19.6			-19.8				

TABLE 6H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



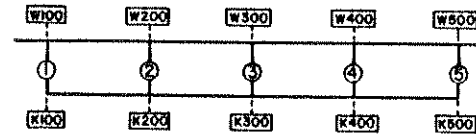
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-116	-71		10	-16				
K	K200	-132	-125		0	-36				
K	K300	-167	-145		-23	-36				
K	K400	-190	-211		-85	-83				
K	K500	-241	-182		-218	-161				
W	W100	144	70		-20	21				
W	W200	169	449		3	156				
W	W300	203	549		38	146				
W	W400	232	370		112	421				
W	W500	263	602		232	702				
SECTION F										
K	K100	-222	-187		-90	-94				
K	K200	-328	-319		-112	-143				
K	K400	-220	-269		-224	-320				
K	K500	-155	-129		-240	-182				
W	W100	244	322		89	234				
W	W200	404	850		137	296				
W	W400	262	681		301	853				
W	W500	150	839		246	1757				

**TABLE 61**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



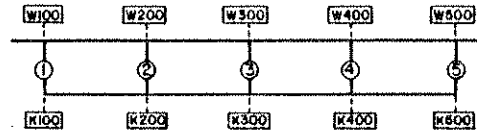
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-164	-63		-87	-42				
W	W200	-5	53		-15	-16				
W	W300	90	507		50	187				
W	W400	172	502		116	302				
W	W500	256	633		173	463				
K	K100	168	666		92	80				
K	K200	8	9		16	2				
K	K300	-107	-159		-60	-27				
K	K400	-223	-158		-136	-108				
K	K500	-264	-330		-178	-212				
SECTION K										
W	W100	238	443		217	385				
W	W200	158	327		123	270				
W	W300	85	248		41	73				
W	W400	2	95		-15	-5				
W	W500	-139	-63		-67	-62				
K	K100	-241	-234		-236	-318				
K	K200	-185	-226		-150	-110				
K	K300	-102	-98		-49	-36				
K	K400	-3	7		14	-1				
K	K500	131	50		62	64				

TABLE 6J

SUMMARY OF STRAINS (MICR IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X+5Y			5X+1Y					
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-133	-162		-397	-421				
K	K200	-177	-211		-296	-279				
K	K400	-283	-258		-118	-115				
K	K500	-221	-127		-102	-101				
W	W100	120	354		476	915				
W	W200	208	597		391	733				
W	W400	368	1230		142	577				
W	W500	224	2027		109	432				
SECTION I										
K	K100	-217	-126		-196	-78				
K	K200	-186	-182		-79	-68				
K	K300	-177	-152		-26	-5				
K	K400	-134	-114		-8	-6				
K	K500	-96	-65		-2	-17				
W	W100	225	375		198	317				
W	W200	225	628		103	380				
W	W300	215	454		42	250				
W	W400	168	407		17	62				
W	W500	117	90		-2	26				

**TABLE 6K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1X+5Y				NORMALIZED POINT LOADS AT 5X+1Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
<b>MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH</b>													
A	1	106.3	21.0	97.0	21.0	48.7	13.4	44.3	12.9				
A	2	115.5	23.8	123.7	26.8	55.1	15.2	59.1	17.2				
A	3	107.0	22.1	112.3	24.4	56.6	15.6	76.8	22.4				
A	4	83.2	17.2	87.3	19.0	85.4	23.5	106.3	31.0				
A	5	72.8	15.0	40.4	8.8	117.4	32.3	56.8	16.5				
A	SUM	484.8		460.7		363.3		343.2					
D	1	61.8	12.7	68.4	14.9	118.6	32.6	121.1	29.8				
D	2	71.6	14.8	90.9	19.8	92.4	25.4	124.9	30.7				
D	3	88.8	18.3	96.7	21.0	63.8	17.5	71.3	17.6				
D	4	119.5	24.4	119.3	25.9	48.4	13.3	55.9	13.8				
D	5	144.3	29.8	84.6	18.4	40.5	11.1	32.8	8.1				
D	SUM	485.0		460.0		363.6		406.0					
<b>MOMENTS ABOUT TENSION FLANGE STEEL</b>													
A	1	77.7	16.1	152.7	30.8	31.3	8.7	74.9	22.6				
A	2	139.7	29.0	113.2	22.9	60.9	16.9	51.4	15.5				
A	3	121.2	25.1	95.5	19.3	66.2	18.4	51.7	15.6				
A	4	93.8	19.4	76.3	15.4	108.5	30.1	74.0	22.3				
A	5	50.0	10.4	57.5	11.6	93.7	26.0	80.0	24.1				
A	SUM	482.5		495.2		360.6		331.9					
D	1	78.8	8.0	53.9	10.8	93.0	26.0	97.4	28.6				
D	2	78.9	16.4	77.7	15.6	117.3	32.5	88.0	25.0				
D	3	102.9	21.4	87.6	17.6	74.0	20.5	62.2	18.3				
D	4	148.8	30.9	116.6	23.4	52.2	14.5	47.9	14.1				
D	5	112.4	23.3	161.7	32.5	23.8	6.6	44.7	13.1				
D	SUM	481.7		497.5		361.1		340.2					
LOAD	PX (KIPS)	-100.0		-100.0		-100.0		-100.0					
LOAD	PY (KIPS)	-100.0		-100.0		-100.0		-99.7					
ACTUAL	PX (KIPS)			-19.6				-19.9					
ACTUAL	PY (KIPS)			-19.5				-19.8					

TABLE 6L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KST COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

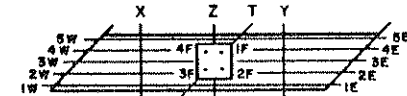
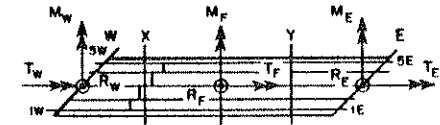
SECTION	GIRDER	1X+5Y *****				NORMALIZED POINT LOADS AT 5X+1Y *****				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	90.3	18.7	125.4	26.3	39.0	10.8	60.0	17.9				
A	2	129.1	26.7	117.6	24.7	59.4	16.1	54.8	16.3				
A	3	115.0	23.8	102.9	21.6	62.0	17.1	63.3	18.9				
A	4	89.2	18.4	81.2	17.0	98.3	27.2	88.9	26.4				
A	5	60.0	12.4	49.1	10.3	104.1	28.8	68.6	20.4				
A	SUM	483.5		476.2		361.8		335.6					
D	1	48.9	10.1	61.6	12.9	104.7	28.9	109.0	29.3				
D	2	75.7	15.7	84.7	17.8	106.3	29.4	107.6	28.7				
D	3	96.7	20.0	92.4	19.4	69.5	19.2	67.0	17.9				
D	4	135.5	28.0	118.0	24.7	50.5	13.9	52.1	13.9				
D	5	126.4	26.2	120.6	25.3	31.1	8.6	38.3	10.2				
D	SUM	483.2		477.3		362.2		375.0					
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	90.4	18.7	110.0	24.6	39.3	10.9	53.3	16.1				
A	2	129.0	26.7	111.9	25.0	58.3	16.1	52.9	16.0				
A	3	114.7	23.7	99.6	22.2	61.9	17.1	65.1	19.7				
A	4	89.0	18.4	78.2	17.4	98.4	27.2	90.5	27.4				
A	5	60.1	12.4	48.3	10.8	103.5	28.6	68.4	20.7				
A	SUM	483.3		447.9		361.4		330.2					
D	1	49.6	10.3	64.7	13.7	104.1	28.8	114.6	29.6				
D	2	75.5	15.6	86.5	18.3	106.4	29.4	115.7	29.9				
D	3	96.5	20.0	93.1	19.7	69.4	19.1	68.1	17.6				
D	4	135.6	28.1	116.7	24.7	50.4	13.9	53.4	13.8				
D	5	125.8	26.0	112.5	23.8	31.8	8.8	35.0	9.0				
D	SUM	482.9		473.4		362.2		386.8					
LOAD	PX (KIPS)	-100.0		-100.0		-100.0		-100.3					
LOAD	PY (KIPS)	-100.0		-100.0		-100.0		-99.7					
ACTUAL	PX (KIPS)			-19.6				-19.9					
ACTUAL	PY (KIPS)			-19.6				-19.8					

**TABLE 7A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 MF = MOMENT AT FOOTING ABOUT 2-AXIS APPLIED AFTER 30 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT 3-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT			
	2X+4Y		4X+2Y	
	THEORY	EXPERM	THEORY	EXPERM
1E	5.31	5.88	29.52	25.96
2E	8.43	9.02	17.79	14.53
3E	9.15	7.71	3.21	2.21
4E	6.59	9.78	-2.00	-1.70
5E	1.78	3.66	-4.64	-2.75
1F	34.54	39.00	29.83	30.44
2F	34.28	33.11	30.14	27.35
3F	34.21	36.95	30.28	34.34
4F	34.47	37.69	29.97	33.79
1W	2.58	3.39	-5.22	-3.76
2W	6.13	7.18	-1.73	-0.98
3W	8.42	11.45	3.81	4.74
4W	8.33	7.71	13.77	13.80
5W	5.78	2.19	29.27	25.45
RE	31.25	31.05	39.88	38.25
RF	137.51	146.74	120.22	125.92
RW	31.24	31.83	39.90	39.25
SUMP	200.00	209.62	200.00	203.42
PX	-100.00	-99.73	-100.00	-99.86
PY	-100.00	-100.27	-100.00	-100.14
SUMP	-200.00	-200.00	-200.00	-200.00
SUMR/SUMP	1.00	1.05	1.00	1.02
TW=-MW	22.13	-4.75	217.22	188.23
MF	-0.21	3.78	.41	15.51
TF	.78	9.93	-0.93	3.81
TE=-ME	-22.91	16.25	-215.29	-189.38
ACTUAL PX		-19.23		-19.81
ACTUAL PY		-19.34		-19.87



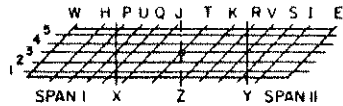
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 7B**

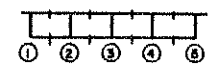
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	2X+4Y			4X+2Y			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.337	-.504	1.49	-.156	-.268	1.72			
3H	-.308	-.483	1.57	-.220	-.350	1.59			
5H	-.213	-.313	1.47	-.310	-.424	1.37			
1P	-.520	-.807	1.55	-.263	-.459	1.75			
3P	-.436	-.687	1.58	-.337	-.526	1.56			
1X	-.601	-.956	1.59	-.327	-.520	1.59			
2X	-.582			-.347					
3X	-.452	-.729	1.61	-.380	-.600	1.58			
4X	-.345			-.438					
5X	-.252	-.419	1.67	-.382	-.602	1.58			
1U	-.631	-.993	1.57	-.334	-.559	1.67			
5U	-.197	-.332	1.68	-.333	-.494	1.48			
3Q	-.326	-.515	1.58	-.293	-.432	1.48			
5Q	-.098	-.165	1.68	-.199	-.286	1.44			
1J	-.438	-.660	1.51	-.234	-.342	1.47			
3J	-.155	-.245	1.58	-.142	-.218	1.54			
5J	-.032	-.041	1.28	-.080	-.018	.23			
1T	-.124	-.169	1.36	-.059	-.079	1.35			
2T	-.041			-.022					
4T	-.043			-.020					
5T	-.127	-.186	1.47	-.055	-.101	1.83			



**TABLE 7C**

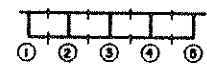
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

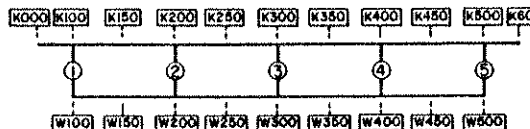
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	2X44Y *****			4X+2Y *****			*****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.034	-.052	1.53	-.075	-.094	1.25			
3K	-.155	-.245	1.58	-.138	-.205	1.49			
5K	-.459	-.658	1.43	-.209	-.329	1.58			
1R	-.090	-.141	1.57	-.199	-.264	1.32			
3R	-.325	-.486	1.49	-.281	-.399	1.42			
1Y	-.218	-.382	1.75	-.408	-.588	1.44			
2Y	-.303			-.505					
3Y	-.439	-.666	1.52	-.365	-.543	1.48			
4Y	-.651			-.302					
5Y	-.627	-.945	1.51	-.287	-.472	1.64			
1V	-.171	-.298	1.74	-.341	-.483	1.41			
5V	-.641	-.964	1.50	-.300	-.509	1.67			
3S	-.427	-.658	1.54	-.334	-.527	1.58			
5S	-.525	-.790	1.50	-.246	-.435	1.77			
1I	-.191	-.321	1.68	-.331	-.464	1.40			
3I	-.307	-.465	1.52	-.218	-.345	1.57			
5I	-.337	-.511	1.52	-.150	-.287	1.91			
LOAD PX	-100.0	-99.7		-100.0	-99.9				
LOAD PY	-100.0	-100.3		-100.0	-100.1				
ACTUAL PX		-19.2			-19.8				
ACTUAL PY		-19.3			-19.0				

**TABLE 7D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSF COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

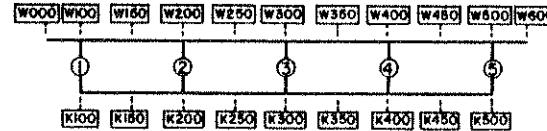
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	2 X+4 Y			NORMALIZED POINT LOADS AT 4 X+2 Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-290	-1801	-504	-205	-1155	-307			
K	K100	-360	-502	-496	-232	-314	-337			
K	K150	-288	-350	-350	-196	-273	-247			
K	K200	-239	-278	-283	-218	-187	-191			
K	K250	-296	-304	-297	-205	-176	-191			
K	K300	-333	-318	-306	-204	-266	-203			
K	K350	-268	-243	-266	-259	-176	-203			
K	K400	-234	-236	-212	-286	-259	-214			
K	K450	-212	-200	-210	-267	-237	-260			
K	K500	-240	-221	-216	-274	-270	-256			
K	K600	-203	-56	-56	-208	-63	-63			
W	W100	915	1121	1039	574	842	776			
W	W150	924	884	876	613	649	618			
W	W200	847	717	758	750	664	716			
W	W250	1062	647	826	734	602	729			
W	W300	1215	1169	1150	766	978	943			
W	W350	991	722	678	965	842	814			
W	W400	875	851	845	1051	868	863			
W	W450	723	690	705	920	910	903			
W	W500	641	334	365	776	371	382			
LOAD	PX (KIPS)	-100.0	-99.7		-100.0	-99.9				
LOAD	PY (KIPS)	-100.0	-100.3		-100.0	-100.1				
ACTUAL	PX (KIPS)		-19.2			-19.8				
ACTUAL	PY (KIPS)		-19.3			-19.9				

TABLE 7E

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KST COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

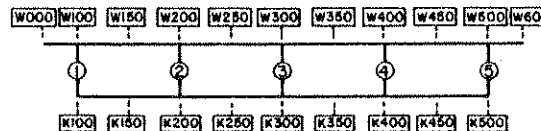
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2X+4Y			4X+2Y			*****		
		THEORY	MEASP	ADJUST	THEORY	MEASP	ADJUST	THEORY	MEASP	ADJUST
W	W000	400	485	641	312	429	361			
W	W100	400	641	634	312	361	357			
W	W150	445	474	476	355	314	315			
W	W200	606	598	605	498	413	415			
W	W250	536	571	550	466	492	470			
W	W300	565	722	675	501	607	532			
W	W350	619	614	667	534	507	547			
W	W400	644	808	783	536	643	637			
W	W450	649	620	558	525	586	531			
W	W500	805	636	639	650	565	560			
W	W600	805	577	577	650	471	471			
K	K100	-174	-231	-231	-133	-152	-153			
K	K150	-205	-377	-371	-165	-302	-290			
K	K200	-251	-304	-316	-208	-196	-208			
K	K250	-272	-359	-325	-237	-309	-282			
K	K300	-334	-325	-359	-296	-367	-359			
K	K350	-364	-395	-356	-313	-292	-324			
K	K400	-383	-334	-348	-319	-325	-289			
K	K450	-371	-401	-396	-301	-382	-403			
K	K500	-392	-364	-365	-319	-295	-293			
LOAD	PX (KIPS)	-100.0	-99.7		-100.0	-99.9				
LOAD	PY (KIPS)	-100.0	-100.3		-100.0	-100.1				
ACTUAL	PX (KIPS)		-19.2			-19.8				
ACTUAL	PY (KIPS)		-19.3			-19.9				

TABLE 7F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

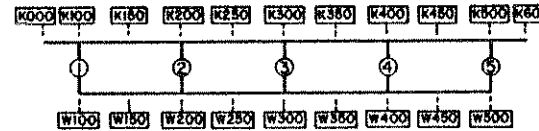
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	2X+4Y			4X+2Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	757	474	474	690	246	246			
W	W100	757	496	490	690	471	471			
W	W150	608	673	650	562	633	608			
W	W200	609	673	696	576	753	767			
W	W250	600	587	588	555	612	671			
W	W300	562	711	705	500	575	577			
W	W350	464	426	488	370	382	410			
W	W400	664	630	620	448	429	420			
W	W450	489	630	676	312	356	385			
W	W500	441	409	420	262	188	195			
W	W600	441	630	409	262	246	246			
K	K100	-364	-401	-404	-341	-326	-324			
K	K150	-344	-522	-497	-326	-393	-408			
K	K200	-359	-363	-387	-345	-371	-341			
K	K250	-351	-375	-361	-327	-360	-382			
K	K300	-332	-395	-362	-296	-392	-408			
K	K350	-284	-286	-322	-225	-363	-319			
K	K400	-276	-309	-276	-186	-193	-193			
K	K450	-227	-284	-295	-144	-180	-176			
K	K500	-195	-206	-205	-108	-116	-116			
LOAD	PX (KIPS)	-100.0	-99.7		-100.0	-99.9				
LOAD	PY (KIPS)	-100.0	-100.3		-100.0	-100.1				
ACTUAL	PX (KIPS)		-19.2			-19.8				
ACTUAL	PY (KIPS)		-19.3			-19.9				

**TABLE 7G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

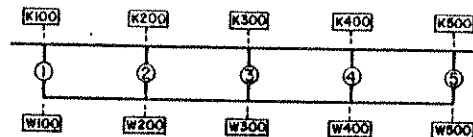
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT					
		2X+4Y			4X+2Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-172	-119	-119	-258	-190	-190
K	K100	-210	-153	-155	-321	-237	-237
K	K150	-187	-157	-174	-292	-243	-246
K	K200	-210	-217	-216	-292	-162	-164
K	K250	-234	-201	-219	-278	-194	-220
K	K300	-277	-250	-249	-242	-199	-202
K	K350	-315	-259	-269	-202	-164	-166
K	K400	-331	-267	-285	-181	-150	-155
K	K450	-334	-297	-298	-160	-141	-142
K	K500	-371	-322	-310	-179	-150	-146
K	K600	-301	-356	-356	-146	-154	-154
W	W100	547	873	880	938	1224	1193
W	W150	625	593	581	1035	863	943
W	W200	778	835	827	1095	1051	1070
W	W250	866	808	797	1039	889	879
W	W300	1024	0	892	891	0	807
W	W350	1137	700	758	713	534	586
W	W400	1148	625	619	613	769	759
W	W450	1067	609	1375	481	429	486
W	W500	947	711	703	411	513	554
LOAD	PX (KIPS)	-100.0	-99.7		-100.0	-99.9	
LOAD	PY (KIPS)	-100.0	-100.3		-100.0	-100.1	
ACTUAL	PX (KIPS)					-19.8	
ACTUAL	PY (KIPS)					-19.9	

TABLE 7H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 33 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



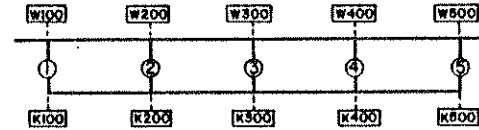
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT					
		2X+4Y			4X+2Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H							
K	K100	-81	-61		-13	-31	
K	K200	-100	-117		-29	-60	
K	K300	-128	-118		-57	-61	
K	K400	-157	-172		-94	-93	
K	K500	-213	-161		-219	-170	
W	W100	97	108		9	63	
W	W200	130	388		41	251	
W	W300	159	377		76	199	
W	W400	191	361		119	330	
W	W500	227	587		254	680	
SECTION F							
K	K100	-242	-198		-179	-122	
K	K200	-201	-237		-154	-186	
K	K400	-256	-301		-459	-761	
K	K500	-198	-158		-274	-228	
W	W100	269	550		148	350	
W	W200	261	517		194	413	
W	W400	308	690		560	779	
W	W500	225	819		325	1088	

**TABLE 7I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



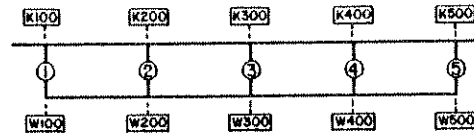
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	2X+4Y			NORMALIZED POINT LOADS AT 4X+2Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-143	-54		-86	-31				
W	W200	9	32		-7	16				
W	W300	87	480		66	288				
W	W400	163	506		130	366				
W	W500	243	636		190	523				
K	K100	166	570		86	172				
K	K200	-9	-90		5	-16				
K	K300	-103	-175		-77	-90				
K	K400	-194	-174		-152	-122				
K	K500	-260	-323		-201	-240				
SECTION K										
W	W100	218	420		209	398				
W	W200	149	313		150	298				
W	W300	87	221		61	110				
W	W400	22	54		-16	26				
W	W500	-157	-129		-83	-47				
K	K100	-227	-231		-226	-260				
K	K200	-175	-211		-177	-196				
K	K300	-102	-134		-72	-85				
K	K400	-23	-127		16	-1				
K	K500	182	244		86	96				

TABLE 7J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	2X+4Y			NORMALIZED POINT LOADS AT 4X+2Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-150	-160		-289	-284				
K	K200	-198	-232		-536	-964				
K	K400	-217	-186		-159	-141				
K	K500	-236	-162		-143	-118				
W	W100	155	453		346	805				
W	W200	236	647		650	1590				
W	W400	281	1077		195	722				
W	W500	265	1309		157	617				
SECTION I										
K	K100	-206	-125		-236	-170				
K	K200	-164	-163		-83	-57				
K	K300	-134	-116		-57	-26				
K	K400	-85	-66		-36	-27				
K	K500	-73	-50		-26	-33				
W	W100	222	361		274	361				
W	W200	198	560		109	230				
W	W300	165	377		77	288				
W	W400	112	226		51	157				
W	W500	86	108		26	63				



**TABLE 7K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	2X+4Y				4X+2Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
NORMALIZED POINT LOADS AT													
*****													
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	101.0	22.0	80.3	19.1	67.6	17.0	58.2	14.5				
A	2	92.9	20.2	91.6	21.7	75.0	18.8	79.3	19.8				
A	3	110.9	24.1	108.7	25.8	77.3	19.4	90.2	24.8				
A	4	94.6	18.4	95.7	22.7	98.4	24.7	109.2	27.2				
A	5	70.6	15.4	45.1	10.7	80.2	20.1	55.0	13.7				
A	SUM	460.0		421.4		398.5		401.0					
D	1	61.8	13.4	72.5	15.8	92.8	23.3	106.3	23.9				
D	2	75.2	16.4	97.0	21.1	102.7	25.7	129.9	29.2				
D	3	98.5	21.4	100.9	21.9	86.1	21.6	91.5	20.6				
D	4	116.6	25.4	93.5	20.3	64.6	16.2	71.0	16.0				
D	5	107.3	23.4	96.2	20.9	52.8	13.2	45.7	10.3				
D	SUM	459.4		460.1		399.0		444.5					
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	78.6	17.2	157.2	31.6	50.3	12.7	103.8	26.9				
A	2	109.5	23.9	107.8	20.9	85.9	21.7	69.2	17.9				
A	3	123.2	26.9	101.7	20.5	87.0	21.9	67.8	17.6				
A	4	95.7	20.9	77.3	15.5	110.8	27.9	76.7	19.0				
A	5	50.4	11.0	56.8	11.4	62.6	15.8	68.2	17.7				
A	SUM	457.4		496.8		396.7		385.7					
D	1	42.7	9.3	55.5	11.4	74.0	18.6	86.3	21.9				
D	2	84.0	18.4	83.2	17.1	118.5	29.8	78.5	21.7				
D	3	110.3	24.1	100.0	20.5	95.9	24.1	80.4	22.2				
D	4	135.7	29.7	121.2	24.0	72.3	18.2	60.5	16.7				
D	5	84.7	18.5	127.1	26.1	36.7	9.2	55.9	15.5				
D	SUM	457.4		487.0		397.4		361.6					
LOAD	PX (KIPS)	-100.0		-99.7		-100.0		-99.9					
LOAD	PY (KIPS)	-100.0		-100.3		-100.0		-100.1					
ACTUAL	PX (KIPS)			-19.2				-19.8					
ACTUAL	PY (KIPS)			-19.3				-19.9					

TABLE 7L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT  
4X+2Y

SECTION	GIRDER	2X+4Y				4X+2Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	88.4	19.3	119.9	26.1	57.9	14.6	91.6	20.9				
A	2	102.2	22.3	97.5	21.3	81.1	20.4	73.7	18.8				
A	3	117.8	25.7	104.5	22.8	82.7	20.8	82.3	21.1				
A	4	90.8	19.8	85.6	18.7	105.4	26.5	91.8	23.5				
A	5	59.3	12.9	51.0	11.1	70.4	17.7	61.6	15.8				
A	SUM	458.5		458.4		397.5		391.0					
D	1	51.1	11.1	64.4	13.6	82.3	20.7	96.9	23.9				
D	2	80.1	17.5	90.5	19.2	111.6	28.0	105.8	26.1				
D	3	105.1	22.9	100.4	21.3	91.6	23.0	86.3	21.3				
D	4	127.3	27.8	106.5	22.5	68.9	17.3	66.0	16.3				
D	5	94.6	20.6	110.7	23.4	43.8	11.0	50.4	12.4				
D	SUM	458.3		472.6		398.1		405.5					
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	88.1	19.2	106.0	24.8	57.7	14.5	71.5	18.8				
A	2	102.1	22.3	89.9	21.0	81.0	20.4	70.9	18.6				
A	3	117.5	25.7	98.8	23.1	82.6	20.8	84.3	22.2				
A	4	90.6	19.8	83.9	19.6	105.2	26.5	93.1	24.5				
A	5	59.3	13.0	49.0	11.5	70.2	17.7	60.2	15.8				
A	SUM	457.7		427.6		396.6		380.1					
D	1	51.3	11.2	68.2	14.6	81.9	20.6	100.7	23.8				
D	2	80.0	17.5	92.3	19.8	111.4	28.0	120.0	28.4				
D	3	104.9	22.9	99.0	21.2	91.4	23.0	87.6	20.7				
D	4	127.1	27.8	101.9	21.8	68.8	17.3	67.7	16.0				
D	5	94.2	20.6	104.9	22.5	43.9	11.0	47.1	11.1				
D	SUM	457.5		466.3		397.4		423.1					
LOAD	PX (KIPS)	-100.0		-99.7		-100.0		-99.9					
LOAD	PY (KIPS)	-100.0		-100.3		-100.0		-100.1					
ACTUAL	PX (KIPS)			-19.2				-19.8					
ACTUAL	PY (KIPS)			-19.3				-19.9					

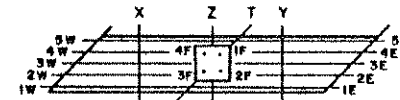
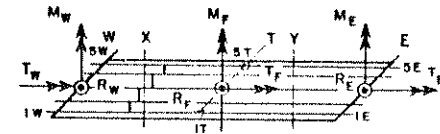
**TABLE 8A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING,  
 TORSIONAL RESTRAINT.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	1X		1Y		1X+1Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	-5.26	-3.64	55.14	55.66	49.88	49.85
2E	-1.57	-1.99	16.93	20.40	15.35	18.62
3E	.70	.19	-1.18	-2.89	-.89	-2.34
4E	1.10	.13	-7.90	-11.53	-6.81	-10.76
5E	1.44	.13	-10.50	-7.80	-9.06	-7.20
1F	-14.00	-9.71	5.38	12.58	-8.62	.80
2F	-24.79	1.70	25.52	32.41	.73	29.22
3F	-16.45	18.90	5.72	8.96	-10.73	23.08
4F	-5.66	8.61	-14.42	-15.34	-20.08	-7.59
1W	4.48	6.19	2.56	2.90	7.03	8.06
2W	7.16	10.85	1.80	1.56	8.96	11.71
3W	9.27	13.93	.22	.68	8.49	14.08
4W	7.00	5.67	-3.22	-3.77	3.78	1.90
5W	3.22	-5.25	-9.83	-10.04	-6.62	-17.05
PE	-4.00	-5.17	52.48	53.84	48.48	48.17
PF	-60.00	19.00	22.20	38.51	-38.70	45.51
PW	30.12	31.29	-8.88	-8.67	21.64	22.70
1T	142.71	75.80	13.77	4.45	156.48	107.72
5T	-7.94	-28.24	20.04	9.61	12.12	-20.28
SUMP	100.00	92.68	100.00	97.74	200.00	203.82
PX	-100.00	-100.00	0.	-.12	-100.00	-100.70
PY	0.	0.	-100.00	-100.00	-100.00	-99.30
SUMP	-100.00	-100.00	-100.00	-100.12	-200.00	-200.00
SUMP/SUMP	1.00	.93	1.00	.98	1.00	1.02
TW=-MW	-6.88	-72.15	-76.66	-90.25	-83.53	-133.79
MF	25.03	57.73	-59.42	-77.20	-34.38	-21.79
TF	32.36	-31.90	-63.42	-66.04	-28.05	-88.63
TF=-MF	41.33	24.81	-401.40	-438.47	-360.07	-369.04
ACTUAL PX		-19.30		-.02		-19.22
ACTUAL PY		0.		-19.35		-18.95



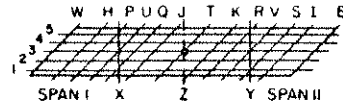
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 8B

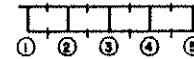
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSF COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

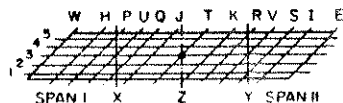
DEFLECTION AT POINT	1X *****			1Y *****			1X+1Y *****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.373	-.643	1.73	.020	.045	2.23	-.352	-.577	1.64
3H	-.314	-.572	1.83	.046	.089	1.83	-.265	-.482	1.82
5H	-.217	-.363	1.67	.103	.149	1.44	-.114	-.208	1.83
1P	-.570	-1.023	1.79	.044	0.	0.	-.527	-.925	1.76
3P	-.432	-.811	1.88	.086	.143	1.66	-.346	-.649	1.88
1X	-.739	-1.466	1.98	.081	.130	1.61	-.658	-1.331	2.02
2X	-.535			.098			-.437		
3X	-.432	-.831	1.93	.115	.177	1.54	-.317	-.640	2.02
4X	-.340			.133			-.207		
5X	-.260	-.482	1.86	.152	.205	1.35	-.108	-.226	2.09
1U	-.697	-1.333	1.91	.066	.106	1.59	-.631	-1.211	1.92
5U	-.221	-.395	1.79	.177	.251	1.42	-.044	-.122	2.79
3Q	-.315	-.608	1.93	.124	.184	1.48	-.191	-.405	2.12
5Q	-.139	-.215	1.55	.171	.248	1.45	.032	.028	.89
1J	-.477	-.966	2.03	.076	.113	1.49	-.401	-.835	2.08
3J	-.159	-.316	1.99	.103	.150	1.46	-.056	-.166	2.95
5J	-.060	-.038	.63	.130	-.101	-.78	.070	-.003	-.04
1T	-.027	-.220	8.03	-.000	-.006		-.028	-.205	7.39
2T	.007			-.000			.007		
4T	-.001			-.000			-.001		
5T	.001	.087		-.001	-.041		-.000	.041	

**TABLE 8C**

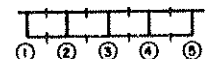
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 IN = 25.4 mm

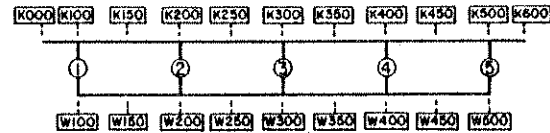


SPAN II DEFLECTION AT POINT	NORMALIZED POINT LOADS AT								
	1X			1Y			1X+1Y		
	*****	*****	*****	*****	*****	*****	*****	*****	*****
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	.097	.047	.48	-.274	-.302	1.29	-.137	-.245	1.78
3K	.049	.108	2.21	-.206	-.301	1.46	-.157	-.188	1.20
5K	.029	.149	5.17	-.174	-.296	1.70	-.145	-.172	1.18
1P	.111	.117	1.06	-.450	-.607	1.35	-.739	-.476	1.40
3P	.058	.139	2.38	-.333	-.499	1.46	-.275	-.351	1.28
1Y	.081	.123	1.53	-.776	-1.121	1.45	-.695	-.998	1.44
2Y	.067			-.528			-.461		
3Y	.053	.254	4.83	-.379	-.415	1.09	-.326	-.409	1.25
4Y	.041			-.289			-.248		
5Y	.031	.154	4.94	-.234	-.412	1.76	-.202	-.286	1.41
1V	.102	.127	1.24	-.665	-.921	1.39	-.563	-.777	1.38
5V	.025	.147	5.93	-.230	-.442	1.93	-.205	-.325	1.58
3S	.038	.113	2.97	-.323	-.538	1.66	-.285	-.427	1.49
5S	.015	.103	7.12	-.172	-.361	2.10	-.157	-.266	1.69
1I	.053	.081	1.54	-.550	-.763	1.36	-.508	-.676	1.33
3I	.020	.081	4.00	-.194	-.331	1.70	-.174	-.269	1.55
5I	.005	.061		-.087	-.209	2.40	-.082	-.159	1.93
LOAD PX	-100.0	-100.0		0.	-.1		-100.0	-100.7	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-99.3	
ACTUAL PX		-19.3			-.0			-19.2	
ACTUAL PY		-0.			-19.3			-19.0	

TABLE 8D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

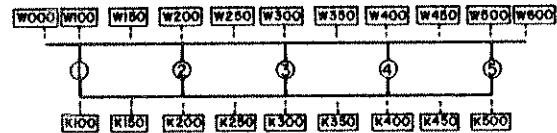
1 KIP = 4.448 kN  
1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IV			IX+IV		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-306	-1381	-537	27	234	58	-278	-1222	-484
K	K100	-364	-547	-579	33	58	60	-331	-494	-525
K	K150	-337	-490	-454	28	62	44	-309	-445	-410
K	K200	-327	-352	-357	27	23	28	-300	-318	-323
K	K250	-296	-304	-326	29	20	19	-266	-277	-295
K	K300	-295	-377	-306	32	46	16	-263	-329	-276
K	K350	-245	-230	-264	32	12	15	-213	-206	-233
K	K400	-217	-263	-221	32	34	17	-185	-220	-189
K	K450	-201	-206	-223	33	18	19	-168	-175	-199
K	K500	-233	-234	-223	40	18	18	-192	-201	-192
K	K600	-204	-81	-81	34	11	11	-169	-62	-62
W	W100	844	1326	1313	-74	-123	-120	769	1234	1242
W	W150	1112	1068	1121	-86	-107	-126	1026	954	1014
W	W200	1176	1245	1261	-96	-80	-90	1079	1164	1163
W	W250	1091	907	1035	-110	-147	-131	980	846	929
W	W300	1100	1288	1267	-125	-177	-173	974	1116	1097
W	W350	913	794	773	-125	-123	-104	787	668	651
W	W400	809	854	847	-127	-161	-160	681	668	687
W	W450	672	714	745	-116	-171	-161	556	545	540
W	W500	598	322	369	-108	-102	-97	490	210	209
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-100.7	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.3	
ACTUAL	PX (KIPS)		-19.3			-0.			-19.2	
ACTUAL	PY (KIPS)		0.			-19.3			-19.0	

**TABLE 8E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TOPSIONAL RESTRAINT.



SECTION R

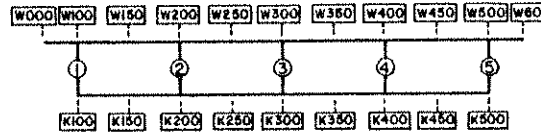
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	773	397	923	385	332	289	1158	728	1245
W	W100	773	923	916	385	299	285	1158	1245	1234
W	W150	706	580	590	339	198	197	1045	809	815
W	W200	757	655	659	349	230	232	1107	906	914
W	W250	525	489	479	243	204	196	768	701	688
W	W300	371	531	467	128	171	163	500	701	635
W	W350	245	322	350	176	145	152	422	464	503
W	W400	172	360	346	184	209	209	357	561	548
W	W450	148	199	176	183	209	184	332	410	364
W	W500	159	156	159	215	177	174	374	323	323
W	W600	159	113	113	215	123	123	374	243	243
K	K100	-378	-485	-485	-154	-106	-107	-533	-606	-611
K	K150	-332	-373	-371	-155	-218	-194	-488	-621	-590
K	K200	-307	-317	-327	-149	-109	-123	-457	-429	-468
K	K250	-259	-326	-296	-129	-146	-119	-388	-482	-416
K	K300	-215	-228	-252	-81	-127	-130	-297	-354	-377
K	K350	-143	-218	-196	-109	-101	-111	-252	-305	-304
K	K400	-101	-140	-145	-111	-126	-110	-212	-255	-251
K	K450	-81	-116	-115	-103	-171	-184	-185	-275	-278
K	K500	-64	-86	-86	-99	-126	-125	-164	-200	-200
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-100.7	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.3	
ACTUAL	PX (KIPS)		-19.3			-0.			-19.2	
ACTUAL	PY (KIPS)		-0.			-19.3			-19.0	

TABLE 8F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

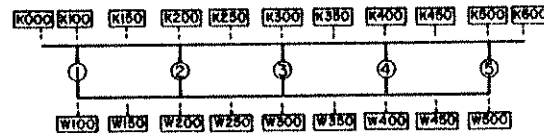
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	610	682	387	435	204	204	1046	900	903
W	W100	610	387	387	435	359	361	1046	744	748
W	W150	330	365	346	291	402	381	621	744	719
W	W200	184	279	286	250	455	457	434	712	720
W	W250	85	177	189	231	370	433	317	528	599
W	W300	39	172	167	257	273	281	296	426	430
W	W350	65	107	117	128	166	180	194	270	292
W	W400	105	107	105	108	161	153	213	270	254
W	W450	96	150	154	13	37	40	110	178	168
W	W500	103	113	114	-74	-32	-27	29	70	79
W	W600	103	188	113	-74	-102	-32	29	59	59
K	K100	-296	-341	-344	-220	-166	-164	-516	-488	-484
K	K150	-197	-359	-335	-175	-148	-160	-373	-486	-506
K	K200	-126	-175	-194	-156	-192	-146	-282	-347	-328
K	K250	-66	-137	-115	-138	-153	-183	-205	-279	-283
K	K300	-33	-78	-87	-150	-201	-196	-194	-260	-278
K	K350	-46	-69	-64	-73	-171	-139	-120	-223	-199
K	K400	-45	-42	-43	-40	-57	-61	-96	-89	-92
K	K450	-39	-53	-53	-6	-42	-41	-46	-83	-82
K	K500	-34	-48	-48	25	-21	-21	-9	-61	-61
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.7	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.3	
ACTUAL	PX (KIPS)		-19.3			-.0			-19.2	
ACTUAL	PY (KIPS)		-0.			-19.3			-19.0	



**TABLE 8G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION D

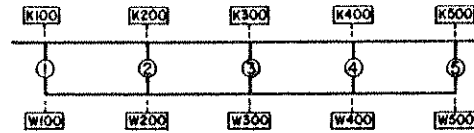
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	8	11	11	-416	-240	-240	-407	-233	-233
K	K100	19	13	13	-451	-280	-287	-441	-268	-275
K	K150	9	12	15	-341	-220	-276	-332	-209	-260
K	K200	10	19	19	-288	-244	-245	-278	-227	-228
K	K250	11	19	22	-234	-180	-202	-223	-162	-181
K	K300	12	24	24	-203	-171	-174	-191	-147	-150
K	K350	12	24	24	-174	-143	-145	-162	-119	-121
K	K400	13	29	31	-159	-138	-145	-146	-112	-117
K	K450	13	35	36	-146	-146	-147	-132	-115	-116
K	K500	15	41	40	-166	-162	-156	-150	-125	-120
K	K600	17	49	49	-137	-165	-165	-124	-122	-122
W	W100	-26	-123	-123	1316	1606	1652	1289	1493	1541
W	W150	-31	-86	-82	1310	1125	1110	1279	1035	1033
W	W200	-38	-118	-115	1168	1264	1227	1130	1159	1125
W	W250	-42	-113	-103	925	884	874	882	782	783
W	W300	-47	0	-95	778	0	741	731	0	657
W	W350	-47	-70	-72	625	493	533	578	442	470
W	W400	-47	-38	-39	533	611	606	486	523	520
W	W450	-41	-54	-103	412	380	478	371	365	427
W	W500	-37	-54	-51	338	402	445	390	372	407
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.7	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.3	
ACTUAL	PX (KIPS)								-19.2	
ACTUAL	PY (KIPS)								-19.0	

TABLE 8H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING,  
 TORSIONAL RESTRAINT,  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

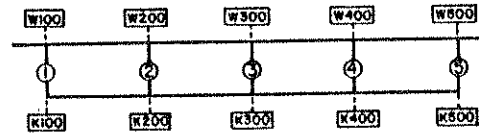
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-96	-80		-11	-1		-107	-76	
K	K200	-112	-137		-9	2		-121	-130	
K	K300	-145	-152		-5	-3		-151	-151	
K	K400	-169	-219		3	-1		-165	-215	
K	K500	-222	-190		22	9		-199	-171	
W	W100	117	75		16	5		134	75	
W	W200	145	462		10	0		155	447	
W	W300	178	553		4	27		193	571	
W	W400	206	408		-5	-64		201	350	
W	W500	239	676		-23	-107		215	571	
SECTION F										
K	K100	-212	-216		11	18		-200	-192	
K	K200	-317	-353		18	29		-299	-326	
K	K400	-212	-303		48	60		-164	-242	
K	K500	-174	-160		73	50		-131	-106	
W	W100	234	360		-11	-37		222	286	
W	W200	392	891		-22	-37		369	846	
W	W400	253	762		-60	-118		193	631	
W	W500	174	977		-81	-198		93	755	

**TABLE 81**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.  
LOADING SHOWN IN TABLES D,E,F,G



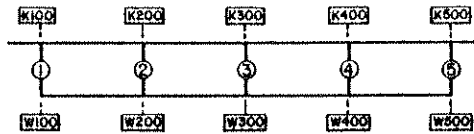
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-153	-97		83	70		-69	-43	
W	W200	3	27		84	123		88	151	
W	W300	67	407		87	241		154	652	
W	W400	77	290		77	198		155	501	
W	W500	92	311		96	197		198	523	
K	K100	152	712		-87	-220		65	534	
K	K200	-6	32		-107	-98		-117	-74	
K	K300	-73	-100		-107	-88		-181	-196	
K	K400	-85	-49		-94	-124		-190	-173	
K	K500	-95	-129		-100	-144		-195	-268	
SECTION K										
W	W100	114	177		97	220		211	388	
W	W200	52	140		70	127		83	248	
W	W300	40	123		-42	-54		-1	54	
W	W400	32	188		-99	-214		-56	-54	
W	W500	33	81		-140	-150		-107	-65	
K	K100	-123	-194		-109	-185		-232	-369	
K	K200	-70	-122		-37	-8		-108	-118	
K	K300	-52	-78		53	66		0	-4	
K	K400	-40	-60		107	92		66	78	
K	K500	-74	-59		177	155		102	124	

TABLE 8J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 TORSIONAL RESTRAINT.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	24	34		-462	-486		-437	-458	
K	K200	16	35		-334	-326		-278	-300	
K	K400	7	24		-131	-127		-124	-107	
K	K500	3	23		-110	-122		-106	-102	
W	W100	-24	-134		546	1141		521	1013	
W	W200	-20	-102		441	921		367	870	
W	W400	-9	-102		160	121		150	555	
W	W500	-3	-102		117	530		113	469	
SECTION I										
K	K100	3	5		-213	-26		-209	-24	
K	K200	-2	7		-78	-57		-81	-54	
K	K300	-5	3		-16	16		-21	15	
K	K400	-6	4		4	9		-2	10	
K	K500	-7	5		12	-11		4	-8	
W	W100	-3	-43		216	359		212	329	
W	W200	2	-16		102	380		105	367	
W	W300	5	-27		31	262		37	248	
W	W400	7	-5		1	48		9	49	
W	W500	10	0		-24	21		-13	16	

**TABLE 8K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	IX				IY				IX+IY			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	108.1	22.9	101.6	20.1	-9.8	18.1	-10.4	15.0	98.3	23.5	94.4	21.7
A	2	114.3	24.2	133.8	26.4	-9.9	18.2	-12.6	19.1	104.4	25.0	121.9	29.0
A	3	101.7	21.6	123.8	24.4	-11.3	20.8	-16.9	24.3	90.5	21.7	107.3	24.7
A	4	79.8	16.7	100.2	19.8	-11.6	21.4	-18.4	26.4	67.1	16.1	80.1	18.4
A	5	69.0	14.6	47.2	9.3	-11.7	21.5	-11.2	16.2	57.3	13.7	31.4	7.2
A	SUM	471.9		506.6		-54.2		-69.6		417.6		435.1	
D	1	-3.2	15.6	-10.2	21.1	128.3	31.4	139.0	29.6	125.2	32.2	129.6	30.3
D	2	-3.7	18.0	-13.5	27.9	101.6	24.8	143.3	30.5	97.9	25.2	131.2	30.7
D	3	-4.3	21.2	-11.1	23.0	72.5	17.7	85.6	19.2	68.2	17.5	76.1	17.8
D	4	-4.6	22.7	-6.7	13.9	57.2	14.0	61.9	13.0	52.6	13.5	53.2	12.5
D	5	-4.6	22.5	-6.8	14.1	49.5	12.1	40.7	9.7	44.9	11.6	37.2	8.7
D	SUM	-20.4		-48.4		409.1		469.6		398.8		427.3	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	79.7	17.0	181.6	32.9	-6.6	12.3	-19.0	42.6	73.1	17.6	163.8	33.2
A	2	138.8	29.6	126.4	22.9	-11.7	21.7	-10.1	22.7	127.1	30.6	114.3	23.2
A	3	115.7	24.6	103.2	19.7	-13.4	24.8	-5.0	11.3	102.3	24.6	93.2	18.9
A	4	88.6	18.9	80.1	14.5	-13.9	25.7	-5.3	12.0	74.7	18.0	69.3	14.1
A	5	46.7	10.0	61.1	11.1	-8.4	15.5	-5.1	11.5	38.4	9.2	52.2	10.6
A	SUM	469.6		552.4		-53.9		-44.6		415.7		492.8	
D	1	-2.1	10.4	-4.5	8.7	100.8	24.8	100.7	26.2	98.7	25.6	96.5	28.6
D	2	-4.2	20.6	-7.2	13.9	128.3	31.6	95.9	24.9	124.1	32.2	88.8	26.3
D	3	-5.1	25.1	-9.5	18.4	84.5	20.8	69.4	18.0	79.4	20.6	59.8	17.7
D	4	-5.6	27.5	-13.4	25.9	62.8	15.4	58.0	15.1	57.2	14.8	46.6	13.8
D	5	-3.3	16.5	-17.1	33.0	30.0	7.4	61.0	15.8	26.7	6.9	46.2	13.7
D	SUM	-20.2		-51.8		406.3		384.9		386.1		337.9	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-0.1		-100.0		-100.7	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.3	
ACTUAL	PX (KIPS)			-19.3				-0.				-19.2	
ACTUAL	PY (KIPS)			-0.				-19.3				-19.0	

TABLE 8L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



I KIP = 4.448 kN  
I FT = 0.305 m

I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT  
IY

SECTION	GIRDER	IX				IY				IX+IY			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	92.2	19.6	142.7	27.0	-9.0	14.8	-14.8	26.4	84.2	20.2	130.0	28.1
A	2	128.0	27.2	129.2	24.5	-10.9	20.2	-11.2	20.0	117.1	28.1	117.3	25.3
A	3	109.5	23.3	112.4	21.7	-12.4	23.0	-10.6	18.9	97.1	23.3	99.4	21.5
A	4	84.3	17.9	89.2	16.9	-12.9	23.8	-11.5	20.5	71.4	17.1	74.1	16.0
A	5	56.5	12.0	54.2	10.3	-9.8	18.2	-8.0	14.2	46.7	11.2	42.1	9.1
A	SUM	470.6		527.7		-54.1		-56.2		416.5		462.8	
D	1	-2.6	12.7	-7.6	15.1	112.9	27.7	121.0	29.1	110.3	29.5	114.0	29.6
D	2	-3.9	19.5	-10.6	21.2	116.5	28.6	121.1	28.2	112.6	29.1	111.4	28.9
D	3	-4.7	23.4	-10.4	20.8	79.2	19.4	78.0	18.2	74.5	19.2	68.5	17.8
D	4	-5.1	25.4	-9.9	19.7	60.3	14.8	59.5	13.9	55.2	14.2	50.1	13.0
D	5	-3.9	19.1	-11.6	23.2	38.6	9.5	50.1	11.7	34.7	9.0	41.3	10.7
D	SUM	-20.3		-50.1		407.6		429.7		387.3		385.3	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	92.3	19.6	125.4	25.3	-8.1	14.9	-13.4	21.5	84.2	20.2	113.8	26.2
A	2	128.0	27.2	122.2	24.6	-10.9	20.2	-11.0	17.7	117.1	28.1	111.0	25.5
A	3	109.3	23.2	109.2	22.0	-12.4	23.0	-13.9	22.2	96.9	23.3	95.7	22.0
A	4	84.1	17.9	87.7	17.7	-12.9	23.8	-14.9	23.9	71.3	17.1	71.4	16.4
A	5	56.7	12.1	52.2	10.5	-9.8	18.2	-9.1	14.6	46.9	11.3	43.2	9.9
A	SUM	470.4		496.7		-54.1		-62.3		416.3		435.1	
D	1	-2.6	12.8	-9.4	17.5	112.3	27.6	130.0	29.0	109.7	28.3	121.5	30.1
D	2	-3.9	19.4	-12.3	22.9	116.6	28.6	132.0	29.5	112.7	29.1	121.0	30.0
D	3	-4.7	23.3	-10.6	19.8	79.1	19.4	80.8	18.1	74.3	19.2	71.5	17.7
D	4	-5.1	25.4	-9.9	18.5	60.2	14.8	59.3	13.2	55.1	14.2	51.0	12.6
D	5	-3.9	19.1	-11.4	21.4	39.3	9.6	45.5	10.2	35.5	9.2	38.7	9.6
D	SUM	-20.3		-53.6		407.5		447.6		387.3		407.6	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-.		-100.0		-100.7	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.3	
ACTUAL	PX (KIPS)			-19.3				-.				-19.2	
ACTUAL	PY (KIPS)			-0.				-19.3				-19.0	

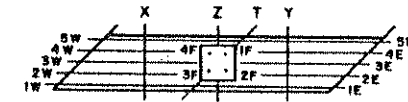
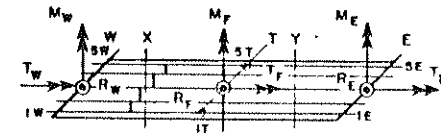
**TABLE 9A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT X-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING,  
 TORSIONAL RESTRAINT.

REACTION OR LOAD	TX		TY		3X+TY	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	-7.55	-7.89	24.40	19.17	16.85	12.53
2E	-2.10	-3.15	14.38	15.29	11.99	12.51
3E	.26	.62	6.85	5.37	7.11	5.09
4E	1.46	1.66	.25	2.11	1.71	4.18
5E	2.04	1.79	-4.68	-1.46	-2.64	-.26
1F	-1.53	.26	-1.08	16.92	-2.61	18.07
2F	-17.27	-5.65	14.90	20.75	-2.37	13.42
3F	-2.33	13.69	-.60	1.55	-2.93	15.07
4F	13.42	23.46	-16.58	-5.18	-3.16	18.74
1W	-4.32	-2.62	2.06	1.94	-2.26	-.83
2W	.30	2.27	1.50	.37	1.79	3.05
3W	6.07	8.44	.28	-.12	6.35	8.83
4W	13.78	13.51	-2.41	-2.62	11.37	11.15
5W	25.43	19.89	-7.62	-6.38	17.82	13.09
2E	-6.19	-7.37	41.20	40.44	35.01	34.95
2F	-7.71	31.76	-3.37	33.64	-11.07	65.39
3W	41.25	41.45	-6.18	-6.81	35.07	35.29
1T	74.46	42.62	-3.89	-4.42	70.57	38.04
5T	-1.81	-9.99	72.24	33.91	70.43	37.16
SUMP	100.00	98.47	100.00	96.76	200.00	210.74
PX	-100.00	-100.00	0.	0.	-100.00	-99.10
PY	0.	0.	-100.00	-100.00	-100.00	-100.00
SUMP	-100.00	-100.00	-100.00	-100.00	-200.00	-200.00
SUMP/SUMP	1.00	.98	1.00	.97	1.00	1.05
TW=-1W	187.71	144.77	-59.83	-50.48	127.88	92.42
MF	44.83	63.81	-46.50	-61.75	-1.67	3.48
TF	47.24	23.52	-47.93	-15.24	-.70	12.48
TF=-MF	59.25	60.09	-185.88	-139.78	-126.62	-87.29
ACTUAL PX		-19.52		-0.		-19.07
ACTUAL PY		-0.		-19.46		-19.42



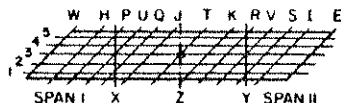
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 9B**

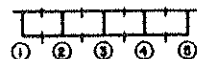
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING,  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I DEFLECTION AT POINT	NORMALIZED POINT LOADS AT								
	3X			3Y			3X+3Y		
	*****	*****	*****	*****	*****	*****	*****	*****	*****
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.225	-.399	1.78	.011	.069	6.46	-.214	-.371	1.74
3H	-.283	-.482	1.71	.034	.085	2.54	-.249	-.413	1.66
5H	-.312	-.462	1.48	.078	.120	1.54	-.235	-.355	1.51
1P	-.369	0.	0.	.026	0.	0.	-.343	-.618	1.80
3P	-.431	-.729	1.69	.061	.139	2.27	-.370	-.628	1.70
1X	-.432	-.802	1.86	.053	.160	3.04	-.379	-.669	1.77
2X	-.463			.068			-.396		
3X	-.496	-.837	1.69	.083	.183	2.19	-.413	-.688	1.67
4X	-.450			.100			-.351		
5X	-.405	-.658	1.62	.116	.193	1.67	-.289	-.492	1.70
1U	-.460	-.845	1.83	.042	.158	3.71	-.418	-.733	1.75
5U	-.383	-.590	1.54	.141	.208	1.48	-.242	-.406	1.67
3O	-.382	-.620	1.62	.092	.177	1.93	-.290	-.465	1.60
5O	-.265	-.386	1.45	.144	.201	1.39	-.121	-.210	1.74
1J	-.286	-.534	1.86	.049	.146	2.99	-.237	-.439	1.85
3J	-.208	-.334	1.61	.077	.138	1.79	-.131	-.206	1.57
5J	-.133	-.039	.29	.117	-.016	-.13	-.016	-.011	.69
1T	-.011	-.107	9.70	-.000	.052		-.011	-.089	8.01
2T	.002			-.000			.002		
4T	-.000			.002			.002		
5T	.000	.064		-.010	-.134		-.010	-.060	6.13

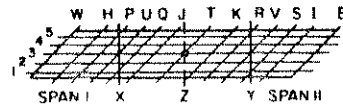


**TABLE 9C**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



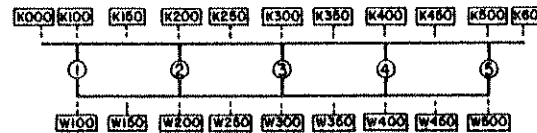
SPAN II

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	.114	.110	0.96	-.124	-.155	1.25	-.010	-.040	4.00
3K	.076	.130	1.70	-.225	-.361	1.61	-.148	-.228	1.54
5K	.051	.130	2.57	-.277	-.534	1.93	-.226	-.423	1.87
1R	.142	.196	1.39	-.245	-.355	1.45	-.104	-.158	1.62
3R	.091	.167	1.82	-.425	-.664	1.56	-.333	-.499	1.50
1Y	.115	.176	1.53	-.379	-.618	1.63	-.264	-.419	1.59
2Y	.099			-.440			-.341		
3Y	.083	.135	1.62	-.569	-.680	1.19	-.485	-.545	1.12
4Y	.069			-.451			-.381		
5Y	.055	.131	2.40	-.404	-.757	1.88	-.349	-.625	1.79
1V	.139	.204	1.47	-.350	-.549	1.57	-.211	-.337	1.60
5V	.044	.127	2.85	-.425	-.811	1.91	-.380	-.686	1.80
3S	.061	.116	1.89	-.476	-.785	1.65	-.415	-.654	1.58
5S	.028	.093	3.32	-.347	-.677	1.95	-.319	-.566	1.77
1I	.077	.114	1.48	-.303	-.477	1.57	-.226	-.353	1.56
3I	.034	.079	2.32	-.302	-.500	1.65	-.268	-.415	1.55
5I	.012	.056	4.78	-.212	-.427	2.01	-.200	-.369	1.84
LOAD PX	-100.0	-100.0		0.	0.		-100.0	-99.1	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-100.9	
ACTUAL PX		-19.5			0.			-19.1	
ACTUAL PY		0.			-19.5			-19.4	

**TABLE 9D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

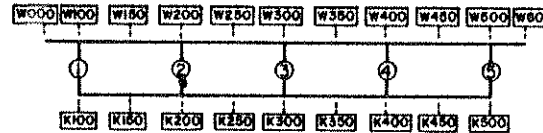
1 KIP = 4.448 kN  
1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-290	-1906	-504	20	306	78	-270	-1764	-465
K	K100	-332	-509	-527	24	77	78	-308	-469	-483
K	K150	-275	-400	-380	20	74	54	-255	-360	-348
K	K200	-306	-276	-281	20	28	34	-286	-259	-261
K	K250	-288	-251	-264	20	28	25	-268	-237	-249
K	K300	-256	-326	-266	21	45	22	-235	-301	-252
K	K350	-264	-207	-240	20	16	21	-243	-199	-228
K	K400	-237	-245	-205	19	33	20	-218	-227	-194
K	K450	-216	-191	-205	19	19	20	-197	-183	-196
K	K500	-239	-210	-203	23	18	19	-215	-202	-195
K	K600	-181	-64	-64	20	8	8	-161	-62	-62
W	W100	856	1205	1116	-54	-128	-126	801	1092	1018
W	W150	875	913	877	-63	-106	-119	812	815	783
W	W200	1059	934	996	-71	-91	-100	987	864	915
W	W250	1030	929	943	-76	-144	-110	954	815	855
W	W300	936	1077	1058	-81	-154	-147	854	973	956
W	W350	982	780	739	-78	-112	-104	903	701	666
W	W400	895	1115	1077	-76	-160	-160	818	1005	976
W	W450	736	881	797	-67	-149	-134	669	750	695
W	W500	624	462	482	-62	-90	-82	561	391	409
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.1	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.9	
ACTUAL	PX (KIPS)		-19.5			0.			-19.1	
ACTUAL	PY (KIPS)		0.			-19.5			-19.4	

TABLE 9E

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION B

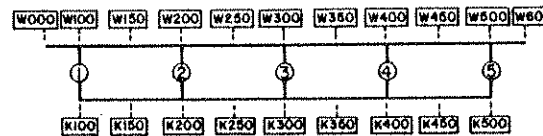
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	279	228	345	211	154	218	491	408	571
W	W100	279	345	341	211	218	215	491	571	565
W	W150	340	265	270	192	144	143	533	435	439
W	W200	459	398	400	212	165	166	671	581	593
W	W250	376	377	366	167	160	150	543	576	547
W	W300	362	462	387	110	165	160	472	652	570
W	W350	269	303	330	164	176	180	434	505	537
W	W400	226	356	348	207	266	263	434	625	615
W	W450	215	276	244	251	245	224	467	538	490
W	W500	270	255	253	354	272	270	624	532	530
W	W600	270	202	202	354	240	240	624	462	462
K	K100	-142	-144	-145	-80	-76	-76	-222	-213	-214
K	K150	-157	-255	-242	-84	-141	-133	-242	-386	-369
K	K200	-182	-215	-235	-90	-77	-83	-272	-292	-314
K	K250	-182	-296	-264	-89	-110	-92	-272	-408	-363
K	K300	-209	-283	-270	-72	-105	-116	-281	-395	-397
K	K350	-157	-191	-214	-105	-129	-119	-262	-313	-337
K	K400	-135	-172	-156	-130	-150	-144	-266	-320	-295
K	K450	-125	-166	-172	-147	-222	-231	-272	-386	-402
K	K500	-129	-117	-116	-167	-187	-186	-296	-304	-302
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.1	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.9	
ACTUAL	PX (KIPS)		-19.5			0.			-19.1	
ACTUAL	PY (KIPS)		0.			-19.5			-19.4	

TABLE 9F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION C

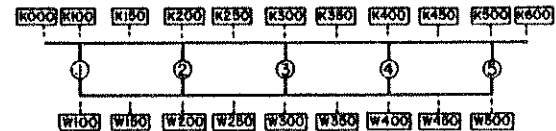
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	357	249	249	249	154	154	607	408	408
W	W100	357	244	245	249	176	175	607	435	434
W	W150	248	287	268	205	272	258	454	565	539
W	W200	198	271	275	225	362	370	424	630	646
W	W250	151	196	215	284	367	391	435	581	622
W	W300	100	202	200	393	484	488	494	685	688
W	W350	138	143	159	329	303	331	467	462	497
W	W400	220	175	173	457	437	428	677	630	617
W	W450	202	202	215	322	346	374	524	565	600
W	W500	223	143	146	235	192	199	459	342	351
W	W600	223	218	143	235	282	282	459	505	505
K	K100	-167	-210	-209	-118	-120	-120	-286	-325	-324
K	K150	-144	-225	-230	-118	-174	-177	-262	-398	-405
K	K200	-125	-159	-156	-133	-173	-166	-259	-329	-317
K	K250	-98	-143	-136	-164	-236	-254	-262	-376	-392
K	K300	-66	-122	-138	-226	-368	-334	-293	-487	-481
K	K350	-89	-147	-117	-191	-303	-310	-280	-448	-433
K	K400	-93	-84	-91	-180	-212	-213	-274	-297	-304
K	K450	-89	-106	-102	-147	-153	-152	-237	-257	-255
K	K500	-85	-88	-88	-122	-89	-89	-208	-167	-167
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.1	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.9	
ACTUAL	PX (KIPS)		-19.5		0.			0.	-19.1	
ACTUAL	PY (KIPS)		0.		-19.5			-19.4		

**TABLE 9G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION D

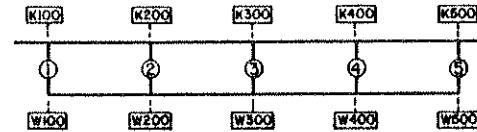
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	20	13	17	-204	-151	-151	-183	-143	-143
K	K100	24	17	17	-254	-187	-190	-230	-174	-176
K	K150	20	12	26	-230	-191	-209	-210	-183	-193
K	K200	20	20	20	-264	-268	-266	-244	-253	-250
K	K250	20	16	17	-296	-253	-264	-275	-239	-245
K	K300	20	26	25	-304	-194	-197	-283	-169	-171
K	K350	20	22	22	-299	-218	-220	-279	-199	-201
K	K400	20	27	29	-271	-230	-241	-250	-209	-218
K	K450	21	38	43	-239	-236	-241	-218	-203	-207
K	K500	25	44	43	-268	-260	-251	-242	-221	-214
K	K600	21	45	45	-216	-278	-278	-195	-232	-232
W	W100	-63	-127	-132	609	1065	1067	635	896	894
W	W150	-69	-96	-83	791	735	745	722	636	655
W	W200	-77	-143	-136	985	1039	1036	907	919	921
W	W250	-79	-111	-112	1091	1022	994	1012	940	893
W	W300	-80	0	-112	1097	0	971	1016	0	867
W	W350	-77	-69	-66	1059	740	820	981	663	736
W	W400	-74	37	36	932	953	948	857	842	837
W	W450	-66	-64	-154	746	612	787	680	554	607
W	W500	-58	-42	-38	653	703	759	595	657	703
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.1	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.9	
ACTUAL	PX (KIPS)		-19.5			0.			-19.1	
ACTUAL	PY (KIPS)		0.			-19.5			-19.4	

TABLE 9H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 TORSIONAL RESTRAINT.  
 LOADING SHOWN IN TABLES D,E,F,G



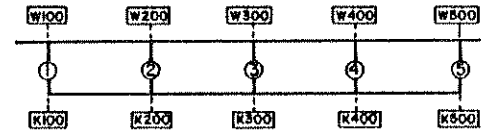
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-28	-46		-10	4		-38	-45	
K	K200	-50	-92		-8	7		-58	-88	
K	K300	-75	-82		-6	3		-81	-81	
K	K400	-117	-135		-0	6		-117	-134	
K	K500	-190	-148		11	9		-178	-142	
W	W100	26	85		14	0		41	82	
W	W200	68	313		9	-21		78	321	
W	W300	98	244		6	0		104	245	
W	W400	142	372		0	-59		142	331	
W	W500	200	642		-12	-106		188	581	
SECTION F										
K	K100	-200	-186		6	24		-193	-169	
K	K200	-200	-258		12	36		-188	-232	
K	K400	-320	-361		29	54		-291	-322	
K	K500	-297	-252		44	42		-252	-214	
W	W100	221	499		-6	-43		214	456	
W	W200	257	547		-15	-64		241	500	
W	W400	387	759		-76	-117		350	668	
W	W500	354	945		-47	-181		307	799	

**TABLE 9I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.  
LOADING SHOWN IN TABLES D,E,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

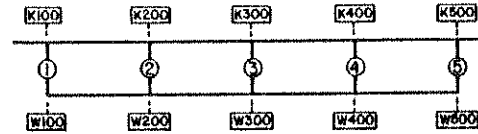
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-122	-64		56	53		-56	-27	
W	W200	-35	-37		55	106		20	49	
W	W300	26	218		64	213		90	435	
W	W400	57	212		70	186		128	418	
W	W500	84	303		110	224		194	540	
K	K100	122	431		-58	-180		64	282	
K	K200	39	7		-69	-79		-30	-59	
K	K300	-25	-80		-80	-84		-105	-160	
K	K400	-62	-67		-89	-120		-152	-184	
K	K500	-92	-104		-120	-179		-213	-280	
SECTION K										
W	W100	107	154		76	197		183	386	
W	W200	68	149		60	154		128	315	
W	W300	64	133		43	69		107	206	
W	W400	56	223		-45	-101		10	87	
W	W500	57	85		-149	-149		-92	-60	
K	K100	-115	-175		-82	-62		-198	-232	
K	K200	-86	-115		-64	-86		-150	-198	
K	K300	-80	-96		-44	-101		-124	-194	
K	K400	-71	-84		54	35		-16	-44	
K	K500	-59	-86		163	241		103	163	

TABLE 9J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING,  
 TORSIONAL RESTRAINT.  
 LOADING SHOWN IN TABLES D,F,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	44	44		-234	-240		-189	-189	
K	K200	29	44		-287	-337		-257	-300	
K	K400	12	18		-214	-183		-201	-167	
K	K500	6	20		-195	-168		-188	-149	
W	W100	-47	-165		264	697		216	543	
W	W200	-36	-133		347	910		310	788	
W	W400	-15	-117		266	1075		250	1027	
W	W500	-7	-106		221	926		214	875	
SECTION I										
K	K100	12	2		-216	-129		-204	-129	
K	K200	0	3		-129	-116		-128	-116	
K	K300	-5	-6		-59	-40		-65	-47	
K	K400	-8	-5		-48	-37		-56	-42	
K	K500	-10	0		-31	-41		-41	-43	
W	W100	-12	-37		242	373		230	331	
W	W200	-0	-21		158	484		158	451	
W	W300	5	-32		80	261		85	245	
W	W400	9	16		67	186		76	201	
W	W500	14	11		30	96		45	103	



**TABLE 9K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

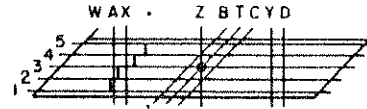
NORMALIZED POINT LOADS AT

SECTION	GIRDER	3X				3Y				3X+7Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	95.4	21.2	82.5	17.6	-7.0	19.7	-10.0	15.7	89.4	21.4	74.4	17.7
A	2	105.0	23.4	109.3	23.3	-7.2	20.2	-12.3	19.2	97.9	23.7	99.3	23.6
A	3	94.3	21.0	108.5	23.1	-7.4	20.7	-14.7	23.0	87.0	21.0	97.9	23.2
A	4	84.8	18.9	115.4	24.6	-7.1	20.0	-17.5	27.5	77.7	18.8	103.5	24.6
A	5	69.3	15.4	57.8	11.5	-6.9	19.4	-9.3	14.6	62.5	15.1	46.1	10.9
A	SUM	448.9		469.5		-35.5		-63.8		413.3		421.2	
D	1	-7.0	19.3	-10.7	20.7	74.1	16.5	89.9	19.3	67.0	16.2	76.6	17.6
D	2	-7.2	19.8	-15.1	29.3	93.9	20.9	122.6	25.0	86.7	21.0	109.5	25.2
D	3	-7.3	20.2	-12.4	24.1	107.6	23.9	113.0	23.1	109.2	24.3	101.7	23.4
D	4	-7.4	20.5	-4.3	8.5	96.2	21.4	96.2	19.6	88.8	21.5	85.2	19.6
D	5	-7.3	20.2	-8.9	17.4	77.8	17.3	68.5	14.0	70.4	17.0	52.3	14.3
D	SUM	-36.3		-51.4		449.5		490.2		413.3		435.3	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	74.2	16.6	165.0	34.2	-4.9	13.8	-25.0	44.3	69.3	16.0	151.7	33.5
A	2	121.4	27.2	102.1	21.2	-8.6	24.2	-12.7	22.4	112.8	27.4	94.7	21.0
A	3	104.7	23.4	88.9	18.4	-8.7	24.7	-7.4	13.1	96.0	23.3	84.7	18.8
A	4	96.7	21.7	71.8	14.9	-8.3	23.6	-6.4	11.3	98.4	21.5	68.4	15.2
A	5	49.6	11.1	54.2	11.3	-4.8	13.7	-5.0	8.9	44.7	10.9	52.4	11.6
A	SUM	446.5		481.9		-35.3		-56.6		411.2		451.4	
D	1	-4.9	13.6	-6.8	12.1	55.1	12.3	68.0	15.0	50.2	12.2	64.0	15.7
D	2	-8.4	23.4	-8.1	14.5	106.3	23.7	102.0	22.5	97.9	23.8	95.0	23.5
D	3	-8.7	24.2	-8.7	15.5	118.1	26.4	87.6	19.4	109.3	26.6	78.8	19.3
D	4	-8.9	24.6	-13.4	23.9	109.9	24.5	95.3	21.1	101.0	24.5	95.4	21.0
D	5	-5.1	14.3	-19.0	34.0	58.3	13.0	99.4	22.0	53.2	12.9	83.6	20.5
D	SUM	-36.1		-55.9		447.8		452.4		411.7		407.7	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-99.1	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.9	
ACTUAL	PX (KIPS)			-19.5				-0.				-19.1	
ACTUAL	PY (KIPS)			-0.				-19.5				-19.4	

TABLE 9L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



I KIP = 4.448 kN  
I FT = 0.305 m

I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	3X				3Y				3X+3Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL				
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	83.5	18.7	124.9	26.4	-5.8	16.4	-17.8	29.8	77.7	18.9	114.0	26.2
A	2	114.2	25.5	105.0	22.2	-8.0	22.5	-12.4	20.8	106.2	25.8	96.4	22.2
A	3	100.1	22.4	97.7	20.6	-8.1	22.9	-10.8	18.1	92.0	22.3	90.5	20.8
A	4	91.5	20.4	92.1	19.4	-7.8	22.0	-11.7	19.5	83.7	20.3	84.7	19.5
A	5	58.3	13.0	53.8	11.4	-5.7	16.2	-7.0	11.8	52.5	12.7	49.1	11.3
A	SUM	447.6		473.4		-35.4		-59.7		412.1		434.7	
D	1	-5.8	16.1	-8.9	17.3	63.5	14.1	79.6	16.9	57.6	14.0	70.6	16.7
D	2	-7.9	21.8	-11.8	23.1	100.9	22.5	113.0	23.9	93.0	22.5	103.1	24.4
D	3	-8.1	22.4	-10.7	20.8	113.5	25.3	101.1	21.4	105.3	25.5	91.0	21.5
D	4	-8.2	22.8	-8.5	16.7	103.9	23.2	95.7	20.3	95.7	23.2	85.2	20.2
D	5	-6.1	16.9	-11.3	22.0	66.9	14.9	82.9	17.5	60.8	14.7	72.2	17.1
D	SUM	-36.2		-51.2		448.6		472.3		412.4		422.1	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	83.1	18.6	109.9	24.3	-5.8	16.4	-16.5	26.5	77.3	18.8	100.1	24.3
A	2	114.0	25.5	99.5	22.0	-8.0	22.5	-11.7	18.8	106.0	25.8	90.9	22.1
A	3	99.9	22.4	95.4	21.1	-8.1	22.9	-12.1	19.5	91.8	22.3	87.2	21.1
A	4	91.3	20.4	96.8	21.4	-7.8	22.0	-14.3	23.0	83.5	20.3	87.5	21.2
A	5	58.4	13.1	51.3	11.3	-5.7	16.2	-7.6	12.2	52.7	12.8	46.6	11.3
A	SUM	446.8		452.9		-35.4		-62.1		411.3		412.4	
D	1	-5.9	16.2	-9.9	17.1	63.4	14.2	84.5	17.7	57.5	14.0	72.8	17.2
D	2	-7.9	21.8	-13.8	23.7	100.7	22.5	116.1	24.4	92.8	22.5	104.6	24.7
D	3	-8.1	22.4	-11.4	19.7	113.2	25.3	106.4	22.3	105.1	25.5	95.8	22.6
D	4	-8.2	22.8	-8.3	14.3	103.7	23.2	94.3	19.8	95.5	23.2	83.7	19.8
D	5	-6.1	16.9	-14.6	25.1	66.8	14.9	75.3	15.8	60.6	14.7	66.4	15.7
D	SUM	-36.2		-58.0		447.8		476.6		411.6		423.4	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-99.1	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.9	
ACTUAL	PX (KIPS)			-19.5				0.				-19.1	
ACTUAL	PY (KIPS)			0.				-19.5				-19.4	

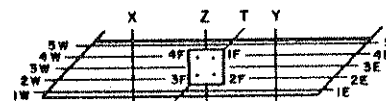
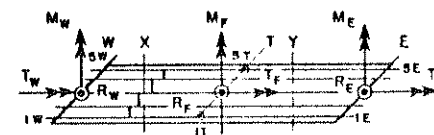
**TABLE 10A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 30 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS TORSIONAL RESTRAINT.

NORMALIZED POINT LOADS AT

REACTION OR LOAD	5X		5Y		5X+5Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	-10.02	-10.90	3.74	-6.37	-6.28	-14.45
2E	-3.28	-4.81	6.71	6.08	3.43	1.52
3E	.23	1.05	7.99	8.36	8.22	8.77
4E	1.86	3.23	7.14	14.68	9.00	16.52
5E	2.68	2.26	4.50	7.94	7.18	9.06
1F	6.03	11.32	-17.64	23.26	-11.61	25.62
2F	-14.36	-11.97	-6.90	8.95	-21.26	-6.77
3F	5.88	11.78	-15.06	-8.23	-9.19	2.86
4F	26.26	38.87	-25.80	5.30	.46	38.17
1W	-11.18	-9.91	1.49	.25	-9.68	-9.19
2W	-7.72	-6.09	1.12	-.90	-6.60	-6.68
3W	-.71	-1.47	.28	-1.17	-.04	-1.61
4W	17.50	19.02	-1.62	-1.43	15.88	18.18
5W	54.07	51.28	-5.32	-2.03	48.75	47.91
PE	-8.53	-9.17	30.09	30.69	21.55	21.42
PF	23.81	50.00	-65.41	29.37	-41.60	59.92
PW	52.37	52.83	-4.05	-5.18	48.31	48.61
1T	19.52	8.74	-5.96	-27.79	13.56	-20.02
5T	12.83	2.18	145.34	66.13	158.17	55.39
SUMR	100.00	104.58	100.00	93.22	200.00	205.32
OX	-100.00	-100.00	0.	-.76	-100.00	-101.03
OY	0.	0.	-100.00	-100.00	-100.00	-98.97
SUMP	-100.00	-100.00	-100.00	-100.06	-200.00	-200.00
SUMR/SUMP	1.00	1.05	.79	.93	1.00	1.03
TW=-MW	400.79	379.26	-42.08	-13.35	358.31	357.58
MF	60.70	76.95	-24.40	-52.57	36.21	33.21
TF	61.16	75.57	-32.21	41.89	28.95	101.49
TF=-ME	78.54	88.75	5.00	95.71	83.57	159.48
ACTUAL OX		-19.68		-.01		-19.39
ACTUAL OY		-0.		-19.61		-18.99



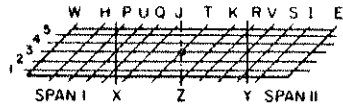
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 10B**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

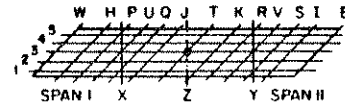
DEFLECTION AT POINT	SX			SY			SX+SY		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.095	-.198	2.33	.004	.087		-.080	-.141	1.75
3H	-.200	-.348	1.74	.021	.091	4.35	-.179	-.285	1.59
5H	-.523	-.731	1.40	.053	.079	1.49	-.471	-.654	1.39
1P	-.175	.002	-.01	.014	.002	.11	-.161	-.268	1.66
3P	-.134	-.563	1.68	.039	.135	3.43	-.295	-.454	1.54
1X	-.260	-.475	1.83	.031	.210	6.73	-.228	-.328	1.44
2X	-.326			.042			-.283		
3X	-.405	-.663	1.64	.055	.175	3.20	-.351	-.523	1.49
4X	-.502			.067			-.434		
5X	-.702	-1.114	1.59	.080	.127	1.59	-.622	-.984	1.58
1U	-.246	-.484	1.97	.024	.199	8.26	-.222	-.345	1.55
5U	-.582	-.863	1.48	.102	.132	1.29	-.480	-.725	1.51
3O	-.359	-.527	1.47	.060	.157	2.62	-.299	-.409	1.37
5O	-.410	-.569	1.39	.112	.114	1.01	-.297	-.468	1.58
1J	-.194	-.319	1.64	.029	.193	6.59	-.164	-.192	1.17
3J	-.217	-.305	1.40	.050	.128	2.58	-.168	-.205	1.22
5J	-.220	-.038	.17	.100	.049	.49	-.120	-.045	.38
1T	-.000	-.023		.001	.139		.000	.052	
2T	-.001			-.001			-.001		
4T	-.000			.008			.007		
5T	-.001	-.017		-.028	-.297		-.029	-.216	7.50

**TABLE 10C**

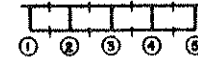
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

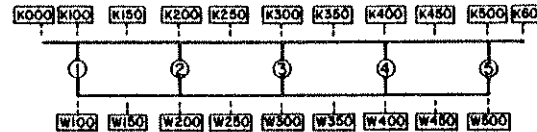
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	5X			5Y			5X+5Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	.138	.194	1.40	-.061	-.035	.58	.077	.134	1.73
3K	.104	.152	1.46	-.154	-.335	2.18	-.050	-.143	2.87
5K	.075	.103	1.37	-.507	-1.022	2.02	-.432	-.828	1.92
1R	.177	.271	1.53	-.136	-.206	1.52	.041	.059	1.44
3R	.126	.197	1.57	-.303	-.607	2.00	-.178	-.340	1.92
1Y	.152	.245	1.61	-.234	-.450	1.93	-.082	-.173	2.11
2Y	.133			-.304			-.171		
3Y	.116	.177	1.58	-.404	-.875	2.17	-.288	-.386	1.74
4Y	.100			-.555			-.456		
5Y	.080	.130	1.62	-.805	-1.562	1.94	-.725	-1.325	1.81
1V	.179	.276	1.54	-.205	-.377	1.83	-.026	-.073	2.83
5V	.066	.118	1.80	-.776	-1.420	1.83	-.710	-1.185	1.67
3S	.086	.138	1.60	-.405	-.764	1.89	-.318	-.567	1.78
5S	.042	.087	2.07	-.611	-1.071	1.75	-.569	-.904	1.59
1I	.103	.156	1.51	-.196	-.368	1.88	-.093	-.189	2.04
3I	.048	.092	1.90	-.301	-.557	1.85	-.252	-.429	1.70
5I	.019	.051	2.69	-.391	-.692	1.77	-.372	-.588	1.58
LOAD PX	-100.0	-100.0		0.	-.1		-100.0	-101.0	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-99.0	
ACTUAL PX		-19.7			-.0			-19.4	
ACTUAL PY		-0.			-19.6			-19.0	

**TABLE 10D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

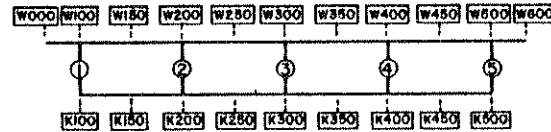
1 KIP = 4.448 kN  
1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-170	-1174	-296	12	346	91	-157	-907	-228
K	K100	-194	-306	-340	14	91	94	-180	-236	-263
K	K150	-167	-282	-236	13	77	65	-154	-222	-186
K	K200	-183	-158	-166	13	37	42	-169	-132	-139
K	K250	-175	-152	-163	13	39	36	-162	-128	-139
K	K300	-176	-253	-177	12	47	36	-163	-223	-154
K	K350	-213	-154	-184	11	27	33	-201	-140	-166
K	K400	-269	-300	-213	10	33	27	-258	-279	-202
K	K450	-326	-255	-292	9	23	24	-316	-244	-282
K	K500	-451	-350	-318	11	22	22	-440	-339	-302
K	K600	-421	-107	-108	9	8	8	-412	-104	-105
W	W100	425	716	705	-34	-132	-123	391	599	589
W	W150	491	590	655	-41	-90	-87	450	508	567
W	W200	618	568	615	-48	-106	-111	570	476	520
W	W250	630	590	678	-48	-127	-103	582	641	593
W	W300	684	942	912	-48	-132	-129	635	829	801
W	W350	843	753	752	-43	-90	-87	799	647	657
W	W400	1087	1105	1051	-38	-127	-123	1049	989	936
W	W450	1263	1232	1212	-31	-127	-118	1231	1122	1132
W	W500	1337	490	586	-28	-69	-73	1308	412	514
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-101.0	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.0	
ACTUAL	PX (KIPS)		-19.7			-.0			-19.4	
ACTUAL	PY (KIPS)		-0.			-19.6			-19.0	

**TABLE 10E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION B

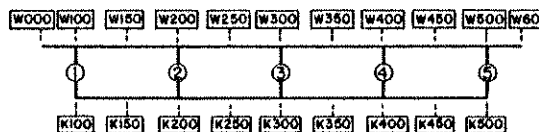
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASP	ADJUST	THEORY	MEASP	ADJUST	THEORY	MEASP	ADJUST
W	W000	-44	153	5	107	132	160	63	262	128
W	W100	-44	5	5	107	160	166	63	128	127
W	W150	45	68	69	97	111	107	143	150	151
W	W200	149	142	141	103	122	124	252	230	232
W	W250	194	247	229	73	127	120	258	358	374
W	W300	279	337	266	32	153	170	312	465	407
W	W350	235	284	297	82	190	205	318	449	474
W	W400	240	342	341	188	333	325	420	604	596
W	W450	265	363	327	346	301	281	612	657	603
W	W500	390	384	379	650	444	446	1041	807	803
W	W600	390	332	332	650	470	470	1041	796	796
K	K100	10	-51	-51	-36	-54	-54	-26	-85	-85
K	K150	-22	-118	-117	-40	-93	-88	-62	-176	-173
K	K200	-58	-68	-71	-44	-40	-52	-103	-99	-101
K	K250	-88	-142	-136	-44	-60	-50	-133	-188	-183
K	K300	-162	-230	-186	-30	-64	-75	-193	-287	-270
K	K350	-138	-126	-154	-65	-133	-108	-204	-236	-262
K	K400	-146	-190	-130	-130	-140	-157	-276	-321	-282
K	K450	-156	-210	-246	-209	-236	-236	-366	-443	-472
K	K500	-195	-150	-157	-318	-297	-296	-513	-439	-434
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-101.0	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.0	
ACTUAL	PX (KIPS)		-19.7			-.0			-19.4	
ACTUAL	PY (KIPS)		0.			-19.6			-19.0	

TABLE 10F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TOPSIONAL RESTRAINT.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

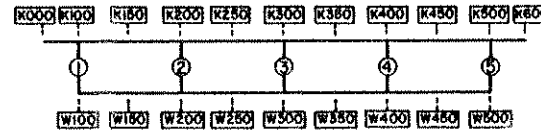
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	256	-11	174	153	122	122	410	75	283
W	W100	256	174	172	153	127	125	410	283	280
W	W150	211	237	217	137	227	220	348	460	431
W	W200	205	253	260	157	285	298	363	529	548
W	W250	190	184	208	231	312	299	422	481	493
W	W300	134	200	199	361	534	533	496	738	738
W	W350	200	168	178	442	343	389	643	524	583
W	W400	337	211	199	786	586	578	1124	845	832
W	W450	323	247	236	755	755	781	1079	1058	1099
W	W500	366	179	185	861	623	629	1227	823	833
W	W600	366	274	179	861	909	909	1227	1203	1203
K	K100	-125	-143	-142	-61	-123	-124	-186	-242	-242
K	K150	-123	-153	-159	-73	-194	-183	-197	-316	-315
K	K200	-126	-145	-134	-91	-157	-170	-217	-282	-284
K	K250	-118	-140	-145	-134	-212	-203	-252	-337	-340
K	K300	-84	-143	-158	-209	-285	-218	-294	-423	-404
K	K350	-127	-205	-145	-263	-152	-187	-390	-380	-402
K	K400	-143	-113	-127	-321	-269	-183	-455	-397	-380
K	K450	-147	-147	-138	-358	-264	-296	-506	-437	-445
K	K500	-146	-109	-110	-420	-424	-411	-567	-529	-527
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-101.0	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.0	
ACTUAL	PX (KIPS)		-19.7			-0.			-19.4	
ACTUAL	PY (KIPS)		-0.			-19.6			-19.0	



**TABLE 10G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION D

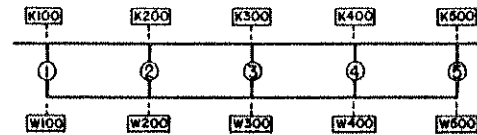
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	32	15	15	-165	-126	-126	-172	-100	-100
K	K100	38	18	17	-198	-157	-159	-160	-124	-125
K	K150	11	10	32	-173	-158	-177	-142	-135	-142
K	K200	30	21	21	-188	-220	-220	-157	-183	-182
K	K250	30	14	15	-205	-194	-216	-175	-164	-179
K	K300	30	27	26	-237	-244	-247	-207	-206	-208
K	K350	29	20	20	-271	-242	-247	-241	-207	-211
K	K400	29	21	22	-329	-331	-337	-300	-293	-295
K	K450	29	42	36	-384	-347	-374	-355	-298	-322
K	K500	35	46	44	-504	-413	-413	-468	-350	-352
K	K600	28	45	45	-462	-600	-600	-433	-532	-532
W	W100	-102	-174	-174	467	956	968	364	722	710
W	W150	-108	-111	-110	551	650	631	442	481	476
W	W200	-119	-168	-165	680	898	885	570	684	675
W	W250	-117	-111	-122	769	866	857	651	690	667
W	W300	-116	0	-137	905	0	964	788	0	766
W	W350	-111	-84	-82	1023	935	909	912	684	759
W	W400	-104	16	20	1219	1162	1142	1115	1112	1092
W	W450	-91	-79	-194	1316	724	1395	1225	604	1148
W	W500	-79	-32	-38	1288	713	744	1208	572	606
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-101.0	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.0	
ACTUAL	PX (KIPS)		-19.7			-0.0			-19.4	
ACTUAL	PY (KIPS)		-0.			-19.6			-19.0	

TABLE 10H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 TORSIONAL RESTRAINT.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST

SECTION H

K	K100	25	-13		-8	10		17	-9
K	K200	13	-41		-7	16		6	-31
K	K300	-13	-37		-5	14		-19	-29
K	K400	-84	-80		-2	18		-86	-74
K	K500	-234	-166		4	17		-230	-156
W	W100	-41	16		11	0		-30	21
W	W200	-10	163		8	-37		-2	139
W	W300	28	147		6	-37		34	123
W	W400	111	495		2	-42		113	454
W	W500	248	821		-4	-95		244	754

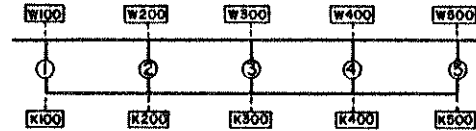
SECTION F

K	K100	-98	-118		3	32		-95	-94
K	K200	-125	-178		7	42		-117	-149
K	K400	-266	-387		14	49		-251	-353
K	K500	-313	-226		20	41		-293	-194
W	W100	97	284		-3	-48		94	246
W	W200	154	353		-9	-69		144	305
W	W400	355	995		-18	-90		337	914
W	W500	328	2005		-18	-132		309	1897

**TABLE 101**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING,  
 TORSIONAL RESTRAINT,  
 LOADING SHOWN IN TABLES D,E,F,G



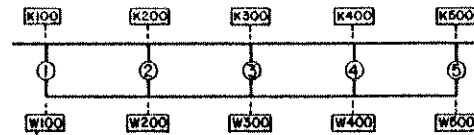
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
<b>SECTION J</b>										
W	W100	-158	-95		34	58		-123	-50	
W	W200	-90	-126		33	100		-56	-53	
W	W300	-32	-21		40	206		8	128	
W	W400	28	116		53	195		82	278	
W	W500	66	253		120	264		186	486	
K	K100	156	312		-36	-138		129	197	
K	K200	109	91		-41	-68		68	43	
K	K300	41	55		-52	-82		-11	-8	
K	K400	-30	-82		-72	-112		-102	-176	
K	K500	-69	-77		-129	-200		-198	-264	
<b>SECTION K</b>										
W	W100	109	153		79	185		188	337	
W	W200	82	147		66	148		149	305	
W	W300	87	147		63	174		151	353	
W	W400	83	263		11	-26		94	262	
W	W500	83	111		-127	-58		-44	0	
K	K100	-117	-161		-77	-71		-195	-223	
K	K200	-102	-110		-70	-90		-172	-198	
K	K300	-107	-112		-70	-29		-178	-147	
K	K400	-105	-102		-18	56		-124	-72	
K	K500	-87	-110		116	170		28	-23	

**TABLE 10J**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 TORSIONAL RESTRAINT.  
 LOADING SHOWN IN TABLES D,F,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION G										
K	K100	65	61		-148	-203		-82	-121	
K	K200	43	55		-172	-235		-84	-161	
K	K400	17	13		-273	-286		-255	-254	
K	K500	10	18		-210	-155		-200	-126	
W	W100	-71	-205		138	486		57	235	
W	W200	-54	-179		203	713		97	470	
W	W400	-22	-142		355	1358		333	1192	
W	W500	-10	-100		213	2202		202	2068	
SECTION I										
K	K100	21	-1		-200	-130		-178	-118	
K	K200	3	-2		-164	-196		-161	-186	
K	K300	-6	-15		-153	-162		-160	-166	
K	K400	-10	-12		-114	-125		-124	-127	
K	K500	-13	-5		-76	-75		-99	-71	
W	W100	-22	-58		204	423		191	326	
W	W200	-4	0		198	682		194	620	
W	W300	5	-32		188	502		194	444	
W	W400	11	47		143	475		155	465	
W	W500	18	11		91	132		109	107	

**TABLE 10K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



I KIP = 4.448 kN  
I FT = 0.305 m

IFT-KIP = 1.356 kN-m  
IFT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				5Y				5X+5Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	57.8	14.1	57.1	13.2	-4.7	21.1	-7.0	14.5	53.5	13.8	49.0	12.8
A	2	63.5	15.5	73.3	17.0	-4.7	23.1	-11.7	21.4	58.7	15.1	63.0	16.5
A	3	65.4	16.0	93.6	21.7	-4.5	21.8	-12.7	23.2	60.9	15.7	82.0	21.4
A	4	94.8	23.2	129.7	30.0	-3.7	18.1	-14.1	25.9	91.1	23.5	117.1	30.6
A	5	127.3	31.1	78.1	18.1	-3.3	15.9	-8.3	15.1	124.0	31.9	71.8	18.8
A	SUM	408.7		431.8		-20.5		-54.7		388.2		382.8	
D	1	-11.0	20.7	-14.1	21.9	58.9	12.5	79.5	15.4	47.9	11.5	59.9	14.3
D	2	-13.9	20.5	-18.1	28.1	67.5	14.4	104.4	20.2	55.6	13.6	79.7	19.0
D	3	-10.6	20.0	-14.6	22.6	84.5	18.0	110.5	21.4	73.9	17.7	88.0	21.0
D	4	-10.4	19.6	-6.9	10.6	115.9	24.6	128.3	24.8	105.4	25.3	114.5	27.3
D	5	-10.2	19.2	-10.8	16.8	143.4	30.5	94.8	19.3	133.2	32.0	76.6	18.3
D	SUM	-53.2		-64.5		470.2		517.5		417.0		419.7	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	37.6	9.3	103.4	26.9	-3.1	15.2	-30.4	41.0	34.5	8.9	79.6	23.8
A	2	70.9	17.5	61.9	16.1	-5.6	27.7	-15.9	21.5	65.3	16.9	50.9	15.2
A	3	76.7	18.9	58.8	15.3	-5.2	25.6	-12.3	16.7	71.5	18.6	51.3	15.3
A	4	119.9	29.5	76.0	19.8	-4.2	20.5	-0.4	12.7	115.7	30.0	72.1	21.6
A	5	100.6	24.8	84.0	21.9	-2.2	10.9	-6.0	8.1	98.4	25.5	80.6	24.1
A	SUM	405.7		384.2		-20.4		-74.0		385.3		334.6	
D	1	-7.9	14.9	-7.6	14.0	36.5	7.8	56.7	10.3	28.6	6.9	45.2	9.7
D	2	-12.9	24.5	-8.5	15.9	74.3	15.9	83.3	15.2	61.3	14.8	69.1	14.8
D	3	-12.7	23.9	-8.2	15.2	98.3	21.0	95.0	17.3	85.6	20.7	80.5	17.3
D	4	-12.4	23.5	-11.1	20.7	145.9	31.2	131.7	24.0	133.5	32.2	113.4	24.3
D	5	-7.0	13.3	-18.4	34.2	112.0	24.0	182.4	33.2	105.0	25.4	159.2	33.9
D	SUM	-52.9		-53.9		467.0		549.1		414.1		466.4	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-1		-100.0		-101.0	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.0	
ACTUAL	PX (KIPS)			-10.7				-0				-10.4	
ACTUAL	PY (KIPS)			-0.				-19.6				-19.0	

**TABLE 10L**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	NORMALIZED POINT LOADS AT												
		5X				5Y				5X+5Y				
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS														
A	1	46.4	11.4	80.9	20.0	-3.6	17.8	-19.5	30.3	42.8	11.1	64.7	18.2	
A	2	67.6	16.6	67.0	16.6	-5.2	25.7	-13.8	21.5	62.4	16.1	56.4	15.8	
A	3	71.7	17.6	75.0	18.5	-4.9	23.9	-12.4	19.3	66.9	17.3	65.6	18.4	
A	4	108.9	26.7	101.1	25.0	-4.0	19.5	-11.6	18.0	104.9	27.1	93.1	26.2	
A	5	112.3	27.6	80.8	20.0	-2.7	13.1	-7.0	10.9	109.7	28.4	76.1	21.4	
A	SUM	407.0		404.8		-20.4		-64.5		386.6		355.8		
D	1	-9.3	17.4	-11.1	19.3	46.3	9.0	68.8	12.0	37.1	8.9	53.0	12.0	
D	2	-12.0	22.7	-13.7	23.8	71.3	15.2	94.6	17.8	59.3	14.3	74.8	17.0	
D	3	-11.8	22.2	-11.6	20.2	92.2	19.7	103.2	19.4	80.4	19.4	84.4	19.2	
D	4	-11.5	21.8	-8.9	15.4	132.7	28.3	129.8	26.4	121.2	29.2	113.9	25.8	
D	5	-8.4	15.9	-12.3	21.4	125.8	26.9	135.7	25.5	117.4	28.3	114.7	26.0	
D	SUM	-53.0		-57.6		468.4		532.1		415.4		440.8		
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS														
A	1	46.8	11.5	72.3	18.0	-3.6	17.8	-19.2	30.8	43.2	11.2	57.8	16.3	
A	2	67.5	16.6	65.1	16.2	-5.2	25.6	-12.4	19.9	62.3	16.1	55.3	15.6	
A	3	71.6	17.6	78.7	19.6	-4.9	23.9	-11.7	18.8	66.8	17.3	68.9	19.5	
A	4	108.9	26.8	107.9	26.8	-4.0	19.5	-12.0	19.2	105.0	27.2	97.9	27.7	
A	5	111.7	27.5	78.0	19.4	-2.7	13.2	-7.1	11.4	109.0	28.2	73.6	20.8	
A	SUM	406.6		402.0		-20.4		-62.3		386.2		353.5		
D	1	-9.3	17.4	-13.1	19.4	47.1	10.0	74.4	14.0	37.9	9.1	56.3	12.9	
D	2	-12.0	22.7	-16.6	24.5	71.2	15.2	98.1	18.4	59.1	14.2	76.0	17.4	
D	3	-11.8	22.2	-13.2	19.6	92.0	19.7	105.3	19.8	80.3	19.3	84.8	19.4	
D	4	-11.5	21.8	-9.5	14.0	132.8	28.4	127.1	23.9	121.3	29.2	112.3	25.7	
D	5	-8.5	16.0	-15.1	22.4	125.2	26.7	127.0	23.9	116.8	28.1	107.7	24.6	
D	SUM	-53.1		-67.5		468.3		531.9		415.3		437.2		
LOAD	PX (KIPS)	-100.0		-100.0		0.		-.		-100.0		-101.0		
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.0		
ACTUAL	PX (KIPS)			-19.7				-.				-19.4		
ACTUAL	PY (KIPS)			-.				-19.6				-19.0		

**TABLE 11A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS

MF = MOMENT AT FOOTING ABOUT Z-AXIS

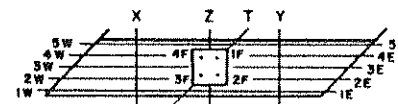
TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS

APPLIED AFTER 30 KSI COND. LOADING.

TORSIONAL RESTRAINT.

REACTION OR LOAD	NORMALIZED POINT LOADS AT			
	1X+5Y		5X+1Y	
	THEORY	EXPERM	THEORY	EXPERM
1E	-1.52	-7.78	45.11	42.23
2E	5.14	4.75	13.64	15.43
3E	8.28	7.80	-0.95	-1.62
4E	8.23	13.66	-6.04	-7.56
5E	5.95	7.49	-7.82	-5.98
1F	-31.64	2.91	11.41	20.85
2F	-31.69	6.80	11.16	16.51
3F	-31.51	8.68	11.59	19.44
4F	-31.46	6.57	11.84	21.49
1W	5.97	6.68	-8.62	-7.34
2W	8.28	10.30	-5.92	-5.67
3W	8.54	13.18	-0.09	-0.37
4W	5.38	4.05	14.28	16.25
5W	-2.10	-7.55	44.23	42.31
RF	26.09	25.92	43.94	42.50
RE	-126.31	24.96	46.01	78.29
RW	26.07	26.67	43.89	45.18
1T	136.75	67.30	33.29	18.67
5T	137.40	61.82	32.87	18.15
SUMR	200.00	206.67	200.00	202.79
PX	-100.00	-99.97	-100.00	-101.08
PY	-100.00	-100.03	-100.00	-98.92
SUMP	-200.00	-200.00	-200.00	-200.00
SUMR/SUMP	1.00	1.03	1.00	1.01
TW=-MW	-48.95	-99.23	323.74	311.71
MF	.54	8.31	1.29	5.35
TF	.15	-9.00	.75	0.58
TF=-ME	46.33	101.44	-322.86	-307.05
ACTUAL PX		-19.16		-19.44
ACTUAL PY		-19.17		-19.22



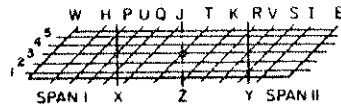
1 KIP = 4.448 kN  
1 FT = 0.305 m

TABLE 11B

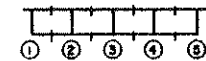
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT  
5X+1Y

DEFLECTION AT POINT	1X+5Y *****			*****			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.368	-.571	1.55	-.065	-.156	2.40			
3H	-.293	-.499	1.71	-.152	-.265	1.75			
5H	-.164	-.271	1.65	-.420	-.577	1.37			
1P	-.556	-.914	1.64	-.131	-.278	2.11			
3P	-.393	-.682	1.74	-.248	-.425	1.71			
1X	-.708	-1.313	1.86	-.179	-.334	1.86			
2X	-.493			-.227					
3X	-.377	-.683	1.81	-.290	-.474	1.63			
4X	-.272			-.369					
5X	-.179	-.339	1.89	-.550	-.868	1.58			
1U	-.673	-1.184	1.76	-.179	-.359	2.00			
5U	-.119	-.249	2.09	-.405	-.584	1.44			
3Q	-.255	-.472	1.85	-.235	-.343	1.46			
5Q	-.027	-.105	3.97	-.239	-.330	1.38			
1J	-.447	-.821	1.84	-.118	-.216	1.83			
3J	-.109	-.219	2.00	-.115	-.161	1.40			
5J	.040	.006	.16	-.090	.029	-.33			
1T	-.027	-.164	6.15	-.001	-.049				
2T	.007			-.001					
4T	.007			-.001					
5T	-.027	-.124	4.51	-.002	-.016	9.28			

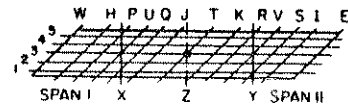


**TABLE 11C**

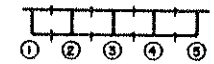
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

NORMALIZED POINT LOADS AT

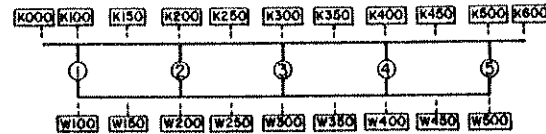
DEFLECTION AT POINT	IX+5Y			5X+1Y			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	.035	-.017	-.40	-.095	-.101	1.05			
3K	-.105	-.195	1.86	-.102	-.132	1.29			
5K	-.478	-.897	1.69	-.099	-.187	1.89			
1R	-.025	-.107	4.28	-.273	-.315	1.15			
3R	-.245	-.412	1.68	-.207	-.284	1.37			
1Y	-.153	-.311	2.03	-.624	-.838	1.34			
2Y	-.237			-.395					
3Y	-.351	-.487	1.39	-.263	-.413	1.57			
4Y	-.514			-.189					
5Y	-.774	-1.309	1.69	-.154	-.268	1.74			
1V	-.103	-.241	2.33	-.485	-.692	1.24			
5V	-.751	-1.183	1.57	-.164	-.312	1.90			
3S	-.367	-.617	1.68	-.237	-.377	1.59			
5S	-.597	-.892	1.49	-.129	-.267	2.07			
1I	-.144	-.275	1.91	-.457	-.572	1.25			
3I	-.280	-.454	1.62	-.186	-.240	1.64			
5I	-.386	-.572	1.48	-.068	-.169	2.34			
LOAD PX	-100.0	-100.0		-100.0	-101.1				
LOAD PY	-100.0	-100.0		-100.0	-98.9				
ACTUAL PX		-19.2			-19.4				
ACTUAL PY		-19.2			-19.0				

11C

**TABLE 11D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KST COND. LOADING,  
TORSIONAL RESTRAINT.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

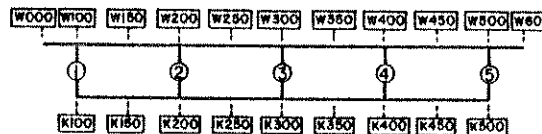
1 KIP = 4.448 kN  
1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	1 X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-293	-1159	-466	-142	-912	-235			
K	K100	-350	-477	-510	-160	-242	-265			
K	K150	-324	-441	-403	-139	-213	-187			
K	K200	-313	-317	-320	-156	-135	-139			
K	K250	-283	-272	-294	-145	-130	-141			
K	K300	-283	-338	-276	-144	-209	-155			
K	K350	-234	-208	-236	-180	-140	-164			
K	K400	-207	-232	-197	-236	-262	-196			
K	K450	-192	-183	-199	-293	-236	-271			
K	K500	-221	-212	-201	-411	-325	-292			
K	K600	-195	-69	-69	-387	-100	-101			
W	W100	810	1233	1229	350	576	568			
W	W150	1071	1000	1052	405	469	517			
W	W200	1128	1152	1161	521	480	514			
W	W250	1042	800	955	520	517	553			
W	W300	1051	1163	1140	558	757	732			
W	W350	870	676	660	717	602	601			
W	W400	771	714	715	959	906	861			
W	W450	641	595	641	1146	1045	1074			
W	W500	570	238	283	1228	357	456			
LOAD	PX (KIPS)	-100.0	-100.0		-100.0	-101.1				
LOAD	PY (KIPS)	-100.0	-100.0		-100.0	-98.9				
ACTUAL	PX (KIPS)		-19.2			-19.4				
ACTUAL	PY (KIPS)		-19.2			-19.0				

**TABLE 11E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION B

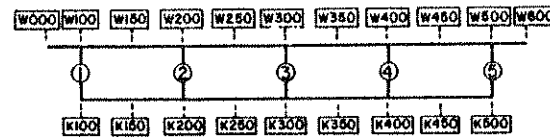
TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	891	503	1060	340	464	267			
W	W100	891	1060	1050	340	267	264			
W	W150	804	665	670	384	267	267			
W	W200	860	752	760	499	373	373			
W	W250	598	589	583	427	437	412			
W	W300	404	660	627	408	501	412			
W	W350	328	487	539	412	416	435			
W	W400	361	644	625	425	517	519			
W	W450	495	492	450	448	549	502			
W	W500	809	579	584	605	554	546			
W	W600	809	573	573	605	448	448			
K	K100	-415	-525	-526	-144	-156	-157			
K	K150	-373	-450	-452	-178	-317	-293			
K	K200	-351	-348	-366	-208	-168	-183			
K	K250	-303	-371	-327	-217	-291	-250			
K	K300	-246	-274	-307	-244	-351	-313			
K	K350	-209	-327	-286	-247	-214	-254			
K	K400	-232	-267	-282	-257	-303	-234			
K	K450	-291	-332	-325	-260	-370	-423			
K	K500	-382	-355	-366	-295	-271	-267			
LOAD	PX (KIPS)	-100.0	-100.0		-100.0	-101.1				
LOAD	PY (KIPS)	-100.0	-100.0		-100.0	-98.9				
ACTUAL	PX (KIPS)		-19.2			-19.4				
ACTUAL	PY (KIPS)		-19.2			-19.0				

TABLE 11F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



SECTION C

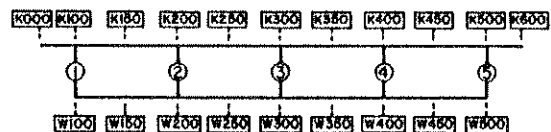
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	764	784	498	692	165	506			
W	W100	764	498	495	692	506	507			
W	W150	468	584	564	502	613	579			
W	W200	342	535	556	456	672	682			
W	W250	317	481	485	422	573	614			
W	W300	399	703	700	392	464	472			
W	W350	507	449	514	329	336	361			
W	W400	892	708	696	446	389	368			
W	W450	852	919	962	337	304	296			
W	W500	964	719	729	292	149	160			
W	W600	964	1087	719	292	165	165			
K	K100	-157	-439	-444	-346	-291	-288			
K	K150	-271	-522	-481	-299	-283	-301			
K	K200	-217	-309	-338	-282	-317	-267			
K	K250	-200	-326	-307	-257	-283	-319			
K	K300	-243	-354	-315	-235	-333	-346			
K	K350	-310	-242	-282	-200	-364	-280			
K	K400	-367	-317	-261	-184	-169	-186			
K	K450	-398	-338	-367	-154	-186	-178			
K	K500	-455	-467	-459	-120	-134	-135			
LOAD	PX (KIPS)	-100.0	-100.0		-100.0	-101.1				
LOAD	PY (KIPS)	-100.0	-100.0		-100.0	-98.9				
ACTUAL	PX (KIPS)		-19.2			-19.4				
ACTUAL	PY (KIPS)		-19.2			-19.0				

**TABLE 11G**

**SUMMARY OF STRAINS (MICRO IN/IN)**

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



**SECTION D**

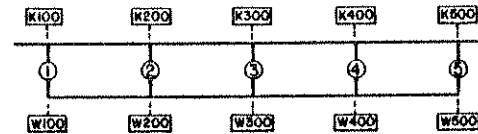
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X45Y			NORMALIZED POINT LOADS AT 5X41Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-156	-111	-111	-383	-220	-220			
K	K100	-187	-138	-139	-413	-254	-260			
K	K150	-163	-140	-156	-310	-203	-246			
K	K200	-178	-193	-193	-258	-216	-217			
K	K250	-194	-166	-186	-203	-159	-174			
K	K300	-224	-214	-217	-173	-140	-143			
K	K350	-258	-211	-215	-145	-117	-118			
K	K400	-316	-294	-300	-130	-114	-116			
K	K450	-371	-306	-331	-116	-104	-105			
K	K500	-488	-357	-357	-131	-115	-112			
K	K600	-448	-532	-532	-108	-118	-118			
W	W100	440	806	822	1213	1396	1436			
W	W150	519	530	509	1202	970	978			
W	W200	651	762	744	1048	1066	1039			
W	W250	726	730	716	807	730	725			
W	W300	857	0	821	661	0	588			
W	W350	976	714	784	514	400	433			
W	W400	1172	1076	1054	429	581	573			
W	W450	1274	611	1251	321	298	334			
W	W500	1250	584	622	258	362	394			
LOAD	PX (KIPS)	-100.0	-100.0		-100.0	-101.1				
LOAD	PY (KIPS)	-100.0	-100.0		-100.0	-99.9				
ACTUAL	PX (KIPS)		-19.2			-19.4				
ACTUAL	PY (KIPS)		-19.2			-19.0				

TABLE III

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KST COND. LOADING.  
 TORSIONAL RESTRAINT.  
 LOADING SHOWN IN TABLES D,E,F,G



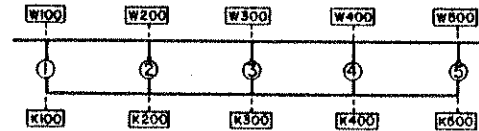
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-104	-72		14	-15				
K	K200	-119	-126		4	-39				
K	K300	-151	-143		-18	-38				
K	K400	-171	-208		-80	-81				
K	K500	-217	-176		-212	-150				
W	W100	128	65		-25	16				
W	W200	153	427		-0	155				
W	W300	184	525		33	155				
W	W400	209	362		106	421				
W	W500	234	584		225	698				
SECTION F										
K	K100	-209	-190		-87	-99				
K	K200	-309	-324		-107	-150				
K	K400	-197	-265		-218	-329				
K	K500	-154	-128		-240	-169				
W	W100	230	297		85	240				
W	W200	382	827		171	704				
W	W400	235	660		294	847				
W	W500	156	806		246	1769				

**TABLE 111**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 TORSIONAL RESTRAINT.  
 LOADING SHOWN IN TABLES D.F.F.G



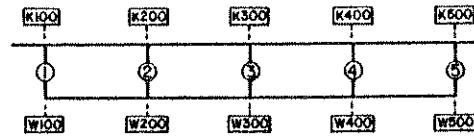
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-118	-59		-75	-48				
W	W200	36	92		-5	-5				
W	W300	108	573		54	203				
W	W400	130	470		106	293				
W	W500	212	562		163	442				
K	K100	115	602		78	92				
K	K200	-47	-23		2	1				
K	K300	-126	-173		-65	-26				
K	K400	-157	-152		-125	-194				
K	K500	-224	-318		-168	-211				
SECTION K										
W	W100	194	379		206	368				
W	W200	119	297		113	277				
W	W300	104	281		45	85				
W	W400	44	146		-5	27				
W	W500	-94	-22		-57	-53				
K	K100	-201	-255		-226	-332				
K	K200	-141	-208		-139	-109				
K	K300	-123	-112		-54	-46				
K	K400	-59	-18		1	-12				
K	K500	81	28		50	46				

TABLE 11J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 TORSIONAL RESTRAINT.  
 LOADING SHOWN IN TABLES D, E, F, G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT  
 5X+1Y

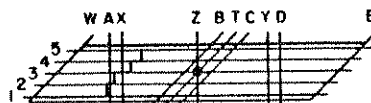
GAGE TYPE	GAGE LOC.	1X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-124	-152		-396	-417				
K	K200	-156	-188		-291	-272				
K	K400	-265	-250		-114	-111				
K	K500	-207	-122		-99	-101				
W	W100	113	314		475	911				
W	W200	183	546		386	730				
W	W400	346	1206		137	538				
W	W500	209	2017		106	426				
SECTION I										
K	K100	-196	-120		-192	-26				
K	K200	-167	-181		-75	-61				
K	K300	-159	-149		-22	0				
K	K400	-121	-111		-5	-5				
K	K500	-84	-63		-0	-17				
W	W100	201	352		193	293				
W	W200	201	600		97	341				
W	W300	194	422		37	240				
W	W400	151	395		13	75				
W	W500	102	92		-5	27				



**TABLE 11K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 FT-KIP=1.356 kN-m  
1 FT-KIP/FT= 4.448 kN-m/m

1 KIP= 4.448 kN  
1 FT=0.305 m

SECTION	GIRDER	IX+5Y				NORMALIZED POINT LOADS AT 5X+1Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
<b>MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH</b>													
A	1	103.8	23.0	95.9	21.1	48.0	13.5	45.5	12.8				
A	2	109.5	24.3	124.0	27.2	53.6	15.1	60.0	16.9				
A	3	97.3	21.5	111.0	24.4	54.1	15.3	75.0	21.1				
A	4	75.0	16.6	85.2	19.7	83.2	23.5	109.7	30.6				
A	5	65.7	14.6	39.1	8.6	115.6	32.6	66.6	18.7				
A	SUM	451.4		455.1		354.5		355.8					
D	1	55.7	12.4	66.0	14.8	117.3	33.0	121.7	33.7				
D	2	63.9	14.2	86.6	19.5	90.7	25.5	122.2	35.8				
D	3	80.2	17.8	93.6	21.0	61.9	17.4	68.8	17.3				
D	4	111.2	24.7	116.1	26.1	46.8	13.1	52.4	13.2				
D	5	139.9	30.9	82.8	18.6	39.3	11.0	31.7	8.0				
D	SUM	449.9		445.1		355.9		396.8					
<b>MOMENTS ABOUT TENSION FLANGE STEEL</b>													
A	1	76.7	17.1	159.0	32.4	30.9	8.8	91.0	24.4				
A	2	133.2	29.7	113.1	23.0	59.2	16.8	51.3	15.4				
A	3	110.4	24.6	93.0	19.9	63.4	18.0	51.9	15.6				
A	4	84.4	18.8	71.7	14.6	105.0	30.1	70.4	21.2				
A	5	44.5	9.9	54.8	11.1	92.3	26.2	77.9	23.4				
A	SUM	449.2		491.6		351.8		332.4					
D	1	34.4	7.7	50.1	10.4	92.9	26.3	91.5	28.5				
D	2	73.1	15.7	73.1	15.2	115.3	32.6	84.8	25.4				
D	3	93.2	20.9	82.9	17.2	71.8	20.3	57.7	18.0				
D	4	140.4	31.4	115.9	24.0	50.3	14.2	44.5	13.8				
D	5	108.7	24.3	160.1	33.2	23.0	6.5	42.9	13.4				
D	SUM	446.7		482.1		353.4		321.4					
LOAD	PX (KIPS)	-100.0		-100.0		-100.0		-101.1					
LOAD	PY (KIPS)	-100.0		-100.0		-100.0		-98.9					
ACTUAL	PX (KIPS)			-12.2				-12.4					
ACTUAL	PY (KIPS)			-12.2				-12.0					

TABLE III

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
TORSIONAL RESTRAINT.



1 FT-KIP=1.356 kN-m  
1 FT-KIP/FT=4.448 kN-m/m

1 KIP=4.448 kN  
1 FT=0.305 m

SECTION	GIRDER	IX+5Y				NORMALIZED POINT LOADS AT 5X+1Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	88.6	19.7	128.2	27.2	38.4	10.9	63.7	18.6				
A	2	122.8	27.3	117.6	24.9	56.7	16.1	55.2	16.1				
A	3	104.6	23.2	101.0	21.4	59.3	16.8	62.6	18.3				
A	4	80.3	17.8	77.7	16.5	96.0	27.2	88.2	25.8				
A	5	53.8	12.0	47.1	10.0	102.5	29.0	72.2	21.1				
A	SUM	450.2		471.7		353.0		341.9					
D	1	43.8	9.8	58.5	12.6	103.6	29.2	107.4	29.7				
D	2	67.4	15.0	80.3	17.4	104.5	29.5	104.7	29.0				
D	3	87.5	19.5	88.6	19.2	67.4	19.0	63.6	17.6				
D	4	127.6	28.5	116.0	25.1	48.8	13.8	48.7	13.5				
D	5	122.0	27.2	118.9	25.7	30.2	8.5	36.9	10.2				
D	SUM	448.1		462.2		354.5		361.3					
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	88.6	19.7	112.7	25.3	38.8	11.0	56.7	16.9				
A	2	122.7	27.3	112.1	25.2	56.6	16.1	53.4	15.9				
A	3	104.4	23.2	98.1	22.1	59.2	16.8	63.9	19.0				
A	4	80.1	17.8	75.5	17.0	96.1	27.3	91.5	27.3				
A	5	54.1	12.0	46.2	10.4	101.9	28.9	70.3	20.9				
A	SUM	450.0		444.4		352.5		335.9					
D	1	44.5	9.9	62.1	13.5	103.0	29.1	114.2	30.3				
D	2	67.2	15.0	82.2	17.9	104.6	29.5	112.9	30.0				
D	3	87.3	19.5	89.7	19.5	67.3	19.0	65.3	17.4				
D	4	127.7	28.5	114.2	24.8	48.7	13.7	50.0	13.3				
D	5	121.3	27.1	111.8	24.3	30.9	8.7	33.7	9.0				
D	SUM	448.0		460.0		354.5		376.2					
LOAD	PX (KIPS)	-100.0		-100.0		-100.0		-101.1					
LOAD	PY (KIPS)	-100.0		-100.0		-100.0		-98.9					
ACTUAL	PX (KIPS)			-19.2				-19.4					
ACTUAL	PY (KIPS)			-19.2				-19.0					

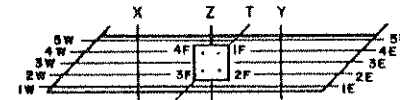
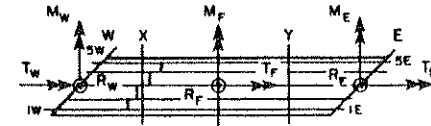
**TABLE 12A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS      RESULTS FOR TRUCK LOADS APPLIED  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS      AFTER 30 KSI COND. LOADING  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS      SIMPLY SUPPORTED, NO RESTRAINTS.

NORMALIZED POINT LOADS AT

REACTION OR LOAD	1A		2A		1A+2A	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	.96	.94	-.57	-.73	-.39	-.10
2E	.01	.15	-.23	-.51	-.22	-.32
3E	-.42	-.35	-.05	-.01	-.47	-.29
4E	-.54	-.99	.05	.27	-.49	-.59
5E	-.50	-.21	.11	.15	-.38	-.14
1F	-2.47	-2.62	.59	.91	-1.88	-1.77
2F	2.37	2.09	-.07	-.30	2.30	1.55
3F	5.57	6.31	1.93	1.90	7.50	8.11
4F	.73	.90	2.59	3.35	3.32	4.33
1W	.97	1.25	-.69	-.79	.28	.38
2W	1.30	.72	-.36	-.08	.95	.54
3W	1.28	1.78	.25	.32	1.54	2.06
4W	.62	.34	1.55	1.73	2.17	2.11
5W	-.89	-.91	3.91	3.40	3.01	2.45
RE	-.49	-.56	-.69	-.93	-1.18	-1.44
RF	6.21	6.69	5.03	5.86	11.23	12.22
RW	3.29	3.18	4.66	4.58	7.95	7.54
SUMP	9.00	9.37	9.00	9.61	18.00	18.32
RY	-9.00	-9.00	-9.00	-9.00	-18.00	-18.00
RY	0.	0.	0.	0.	0.	0.
SUMP	-9.00	-9.00	-9.00	-9.00	-18.00	-18.00
SUMR/SUMP	1.00	1.03	1.00	1.07	1.00	1.07
TW=-MW	-11.31	-12.09	29.51	26.20	17.20	14.68
MF	9.59	11.61	6.00	6.96	15.59	18.99
TF	-14.52	-15.19	1.97	3.99	-12.55	-10.65
TF=-ME	-8.88	-8.33	4.23	6.53	-4.65	-.90
ACTUAL RX		-9.00		-9.00		-18.00
ACTUAL PY		0.		0.		0.



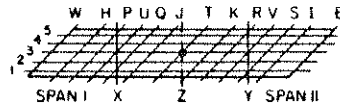
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 12B**

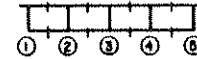
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



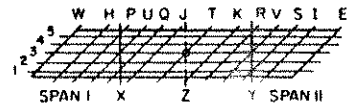
SPAN I DEFLECTION AT POINT	NORMALIZED POINT LOADS AT								
	1A			2A			1A+2A		
	THEORY	EXPERM	F/T	THEORY	EXPERM	E/T	THEORY	EXPERM	F/T
1H	-.059	-.087	1.49	-.015	-.023	1.49	-.074	-.112	1.51
3H	-.047	-.070	1.49	-.023	-.034	1.51	-.070	-.107	1.54
5H	-.025	-.047	1.93	-.041	-.097	2.39	-.065	-.092	1.41
1P	-.089	-.129	1.44	-.026	-.037	1.41	-.116	-.171	1.48
3P	-.065	-.097	1.50	-.036	-.052	1.48	-.100	-.154	1.53
1X	-.112	-.167	1.50	-.036	-.044	1.22	-.147	-.216	1.46
2X	-.090			-.038			-.128		
3X	-.068	-.103	1.52	-.041	-.061	1.47	-.109	-.167	1.54
4X	-.047			-.046			-.093		
5X	-.028	-.050	1.77	-.050	-.084	1.67	-.078	-.137	1.75
1U	-.109	-.168	1.54	-.034	-.047	1.35	-.143	-.215	1.50
5U	-.020	-.033	1.68	-.045	-.068	1.51	-.065	-.110	1.70
3Q	-.055	-.084	1.52	-.036	-.048	1.36	-.091	-.139	1.53
5Q	-.003	-.008	2.68	-.031	-.045	1.47	-.034	-.061	1.82
1J	-.096	-.137	1.44	-.029	-.033	1.14	-.125	-.169	1.35
3J	-.074	-.051	1.49	-.022	-.029	1.32	-.056	-.081	1.46
5J	.017	-.006	-.38	-.014	.004	-.28	.003	.008	2.81
1T	-.053	-.068	1.28	-.010	-.009	.86	-.063	-.075	1.19
2T	-.025			-.005			-.030		
4T	.021			.003			.024		
5T	.041	.049	1.21	.006	.003	.47	.046	.051	1.10

**TABLE 12C**

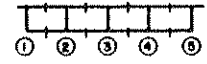
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 70 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

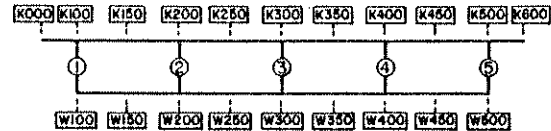
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1A *****			2A *****			1A+2A *****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.019	-.021	1.07	.006	.012	1.99	-.014	-.007	.49
3K	.021	.030	1.44	.011	.015	1.41	.031	.045	1.44
5K	.051	.059	1.37	.013	.013	.98	.063	.081	1.27
1R	-.004	-.000	.07	.011	.020	1.79	.007	.025	3.56
3R	.027	.036	1.31	.013	.017	1.27	.041	.054	1.33
1Y	.009	.014	1.68	.012	.018	1.49	.020	.035	1.70
2Y	.019			.012			.031		
3Y	.029	.037	1.28	.013	.015	1.21	.042	.050	1.22
4Y	.039			.013			.052		
5Y	.050	.064	1.28	.013	.012	.92	.063	.076	1.20
1V	.005	.013	2.65	.013	.022	1.65	.018	.036	1.99
5V	.045	.056	1.25	.011	.011	.99	.057	.067	1.19
3S	.026	.035	1.36	.010	.013	1.31	.036	.046	1.28
5S	.036	.044	1.23	.008	.009	.95	.045	.052	1.16
1I	.007	.010	1.32	.008	.013	1.56	.016	.025	1.61
3I	.018	.025	1.38	.006	.009	1.39	.024	.033	1.36
5I	.024	.032	1.35	.005	.004	.79	.029	.035	1.23
LOAD PX	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD PY	0.	0.		0.	0.		0.	0.	
ACTUAL PX		-9.0			-9.0			-18.0	
ACTUAL PY		0.			0.			0.	

TABLE 12D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KST COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

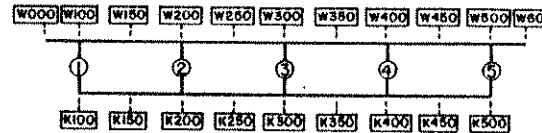
1 KIP = 4.448 kN  
1 IN = 25.4 mm

		NORMALIZED POINT LOADS AT								
		1A			2A			1A+2A		
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-32	-278	-58	-18	-104	-22	-51	-406	-83
K	K100	-42	-60	-66	-20	-23	-26	-63	-86	-97
K	K150	-35	-75	-57	-17	-37	-23	-52	-116	-81
K	K200	-35	-41	-46	-19	-16	-19	-54	-57	-64
K	K250	-34	-39	-39	-18	-17	-17	-53	-57	-58
K	K300	-36	-41	-36	-18	-25	-18	-54	-67	-55
K	K350	-31	-28	-31	-21	-16	-20	-53	-44	-51
K	K400	-29	-31	-27	-26	-33	-23	-56	-64	-49
K	K450	-27	-23	-24	-26	-25	-28	-54	-45	-50
K	K500	-32	-22	-21	-34	-29	-28	-66	-52	-48
K	K600	-27	-12	-12	-28	-18	-18	-55	-24	-24
W	W100	102	171	163	48	67	66	150	233	219
W	W150	111	101	94	53	55	59	165	155	145
W	W200	125	134	136	65	52	56	190	189	196
W	W250	126	25	97	66	81	61	192	48	160
W	W300	135	133	130	70	84	80	206	224	219
W	W350	119	77	73	83	60	63	203	147	142
W	W400	110	86	88	103	78	76	214	177	180
W	W450	94	73	75	96	80	88	190	160	150
W	W500	84	39	39	101	42	49	186	89	83
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD	PY (KIPS)	0.	0.		0.	0.		0.	0.	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		0.			0.			0.	

**TABLE 12E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

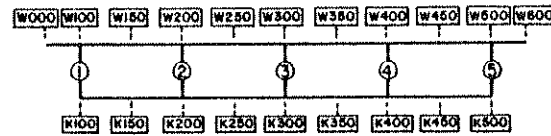
TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A			2A			1A+2A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-3	26	32	-7	11	-1	-11	30	30
W	W100	-3	32	32	-7	-1	-1	-11	30	30
W	W150	3	21	22	-0	4	5	3	25	26
W	W200	15	29	29	9	10	10	24	39	39
W	W250	17	24	23	14	21	18	31	45	43
W	W300	21	34	31	24	27	20	46	66	57
W	W350	22	27	30	23	25	27	45	53	59
W	W400	23	32	30	23	31	31	47	64	63
W	W450	25	17	15	25	32	29	51	53	48
W	W500	35	19	19	35	33	32	71	55	54
W	W600	35	17	17	35	29	29	71	48	48
K	K100	-0	-16	-16	2	-2	-2	1	-19	-19
K	K150	-2	-10	-10	-0	-21	-19	-2	-33	-32
K	K200	-6	-13	-12	-3	-7	-8	-9	-20	-21
K	K250	-8	-12	-13	-6	-13	-12	-15	-27	-26
K	K300	-11	-14	-14	-14	-23	-19	-25	-19	-35
K	K350	-13	-19	-17	-13	-13	-16	-26	-31	-35
K	K400	-14	-16	-18	-14	-20	-13	-28	-37	-32
K	K450	-14	-15	-14	-14	-20	-23	-29	-35	-37
K	K500	-17	-17	-17	-18	-16	-16	-35	-33	-33
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD	PY (KIPS)	0.	0.		0.	0.		0.	0.	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		0.			0.			0.	

TABLE 12F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

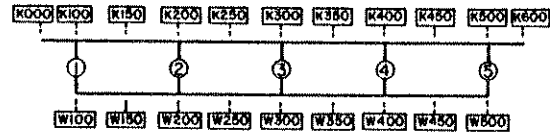
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A			2A			1A+2A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	36	24	24	22	-2	13	58	21	21
W	W100	36	25	24	22	13	12	58	40	39
W	W150	30	34	33	20	22	20	50	57	54
W	W200	31	31	33	21	20	21	52	56	58
W	W250	30	24	24	20	19	21	51	43	46
W	W300	26	27	26	15	17	17	42	47	47
W	W350	23	19	22	18	15	16	42	34	38
W	W400	36	25	24	29	17	15	66	45	44
W	W450	36	34	36	27	21	21	64	59	63
W	W500	43	27	27	32	16	17	76	46	47
W	W600	43	44	27	32	25	16	76	74	46
K	K100	-18	-33	-33	-10	-16	-16	-29	-48	-48
K	K150	-17	-34	-34	-11	-16	-17	-28	-49	-51
K	K200	-18	-22	-22	-12	-15	-13	-31	-37	-35
K	K250	-18	-18	-18	-12	-13	-15	-30	-31	-33
K	K300	-17	-20	-19	-9	-18	-17	-26	-38	-37
K	K350	-14	-17	-18	-11	-19	-17	-26	-37	-36
K	K400	-15	-18	-17	-12	-13	-14	-28	-31	-32
K	K450	-16	-20	-20	-12	-15	-14	-29	-34	-33
K	K500	-17	-21	-21	-12	-12	-12	-30	-33	-33
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD	PY (KIPS)	0.	0.		0.	0.		0.	0.	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		0.			0.			0.	



**TABLE 12G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

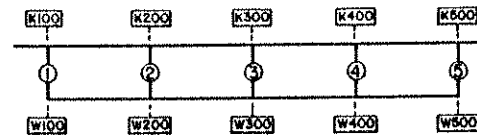
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A			2A			1A+2A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	9	8	8	3	2	2	13	10	10
K	K100	11	9	9	4	3	3	15	11	11
K	K150	9	10	10	3	2	2	13	12	13
K	K200	9	11	11	3	3	3	13	14	14
K	K250	9	11	10	3	2	2	13	13	13
K	K300	9	9	9	3	3	3	13	12	12
K	K350	9	8	9	3	2	2	13	10	11
K	K400	9	10	10	3	3	3	13	12	12
K	K450	9	8	9	3	4	4	12	13	15
K	K500	10	9	9	4	4	4	15	13	13
K	K600	9	11	11	3	4	4	12	16	16
W	W100	-29	-38	-36	-12	-8	-8	-41	-52	-51
W	W150	-32	-24	-25	-13	-9	-10	-45	-31	-31
W	W200	-35	-26	-27	-14	-13	-12	-51	-38	-39
W	W250	-36	-29	-27	-14	-9	-10	-50	-39	-37
W	W300	-36	0	-23	-13	0	-12	-50	0	-38
W	W350	-34	-17	-23	-13	-6	-5	-48	-23	-30
W	W400	-33	-65	-63	-12	19	19	-46	-63	-61
W	W450	-28	-17	-13	-11	-5	-7	-39	-22	-24
W	W500	-25	-22	-26	-9	-3	-4	-35	-27	-31
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD	PY (KIPS)	0.	0.		0.	0.		0.	0.	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		0.			0.			0.	

**TABLE 12H**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KST COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS,  
LOADING SHOWN IN TABLES D,E,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1A			2A			1A+2A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST

SECTION H

K	K100	-15	-9		-0	-3		-16	-13
K	K200	-17	-17		-1	-6		-19	-23
K	K300	-21	-18		-5	-6		-26	-23
K	K400	-23	-27		-11	-27		-35	-39
K	K500	-30	-22		-28	-22		-59	-42
W	W100	19	8		-0	8		19	21
W	W200	22	55		2	32		25	86
W	W300	26	66		7	7		33	69
W	W400	28	50		14	55		43	103
W	W500	32	75		34	114		66	192

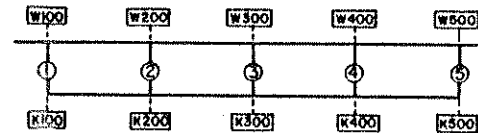
SECTION F

K	K100	-33	-28		-12	-12		-45	-41
K	K200	-37	-40		-14	-18		-51	-60
K	K400	-30	-38		-23	-31		-53	-71
K	K500	-27	-21		-27	-24		-55	-48
W	W100	37	63		12	33		50	96
W	W200	46	90		17	36		63	129
W	W400	36	76		30	98		67	182
W	W500	29	86		31	141		61	237

**TABLE 12I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.  
LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

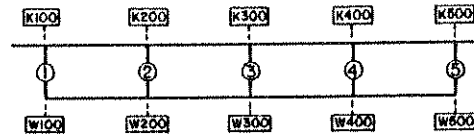
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1A			2A			1A+2A		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	-27	-17		-14	-9		-42	-25	
W	W200	-13	-15		-8	-9		-22	-24	
W	W300	-5	6		-3	-2		-8	4	
W	W400	0	8		1	9		2	18	
W	W500	6	11		5	17		11	36	
K	K100	30	115		15	26		45	134	
K	K200	16	15		10	8		27	21	
K	K300	6	0		4	4		11	2	
K	K400	-0	-1		-1	-7		-2	-8	
K	K500	-6	-11		-6	-8		-12	-19	
SECTION K										
W	W100	14	26		10	17		24	42	
W	W200	13	23		8	15		21	40	
W	W300	12	31		8	16		20	47	
W	W400	12	41		7	27		29	69	
W	W500	13	16		7	10		21	29	
K	K100	-15	-16		-10	-14		-26	-30	
K	K200	-16	-19		-10	-11		-26	-29	
K	K300	-15	-18		-10	-11		-25	-29	
K	K400	-15	-19		-9	-10		-25	-29	
K	K500	-14	-22		-8	-11		-22	-34	

TABLE 12J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.  
LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1A			2A			1A+2A		
		THEORY	MFASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MFASR	ADJUST

SECTION G

K	K100	12	14	6	5	19	19
K	K200	10	11	4	5	16	16
K	K400	8	9	2	2	11	11
K	K500	9	6	2	2	11	8
W	W100	-13	-25	-7	-15	-21	-41
W	W200	-12	-19	-5	-10	-20	-30
W	W400	-10	-46	-3	-7	-14	-58
W	W500	-9	-36	-2	-9	-12	-45

SECTION I

K	K100	10	7	3	1	13	8
K	K200	8	8	1	1	9	8
K	K300	7	7	0	-1	8	6
K	K400	6	5	0	-1	6	4
K	K500	5	3	-0	0	5	3
W	W100	-11	-10	-3	-3	-14	-16
W	W200	-10	-35	-1	0	-11	-28
W	W300	-8	-12	-0	-1	-9	-13
W	W400	-8	-17	-0	4	-8	-12
W	W500	-7	-7	0	1	-7	-5

TABLE 12K

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI CONG. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

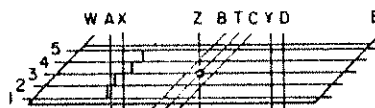
1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1A				2A				1A+2A			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	12.0	21.1	10.6	20.9	6.1	15.9	5.3	15.0	18.1	19.0	15.0	17.5
A	2	12.4	21.9	13.0	25.6	6.6	17.3	6.6	18.6	19.1	20.1	19.6	22.9
A	3	12.5	22.0	12.2	24.0	6.8	17.9	8.2	23.0	19.3	20.3	20.9	24.4
A	4	10.5	18.5	10.0	19.0	9.1	23.7	9.6	26.8	19.6	20.6	20.3	23.7
A	5	9.4	16.6	4.8	9.5	9.6	25.1	5.9	16.6	19.0	20.0	9.8	11.4
A	SUM	56.8		50.6		38.2		35.6		95.0		85.7	
D	1	-3.3	19.8	-3.1	20.1	-1.3	20.6	-0.9	25.5	-4.6	20.0	-4.1	20.7
D	2	-3.4	20.3	-3.5	22.6	-1.3	20.4	-1.5	42.4	-4.7	20.3	-4.7	23.6
D	3	-3.3	20.3	-2.8	18.4	-1.3	19.9	-1.3	36.9	-4.6	20.2	-4.0	20.1
D	4	-3.3	20.2	-4.5	29.1	-1.3	19.8	.7	-21.4	-4.6	20.1	-4.8	24.4
D	5	-3.2	19.4	-1.5	9.7	-1.2	19.3	-0.6	16.6	-4.4	19.4	-2.2	11.3
D	SUM	-16.5		-15.3		-6.4		-3.5		-22.9		-19.8	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	9.0	15.8	20.8	32.0	4.3	11.2	8.1	21.8	13.2	14.0	30.3	29.4
A	2	14.8	26.1	16.0	24.5	7.6	19.8	6.6	17.7	22.3	23.5	22.7	22.1
A	3	14.2	25.1	12.3	18.9	7.9	20.6	6.1	16.5	22.1	23.3	18.9	18.3
A	4	12.1	21.3	9.6	14.8	10.9	28.4	8.1	21.9	22.9	24.2	17.2	16.7
A	5	6.6	11.7	6.4	9.8	7.6	20.0	8.2	22.1	14.3	15.0	13.9	13.5
A	SUM	56.7		65.2		38.2		37.1		94.8		107.0	
D	1	-2.3	14.1	-3.4	17.7	-0.9	14.7	-1.0	16.9	-3.3	14.3	-4.2	16.5
D	2	-4.0	24.2	-4.4	23.1	-1.6	24.4	-1.0	15.8	-5.5	24.3	-5.6	21.9
D	3	-3.9	24.0	-3.9	20.0	-1.5	23.8	-0.9	15.5	-5.5	24.0	-4.9	19.3
D	4	-3.9	24.0	-3.6	18.8	-1.5	23.6	-1.4	23.3	-5.4	23.9	-5.0	19.5
D	5	-2.2	13.7	-3.0	20.3	-0.9	13.5	-1.7	28.4	-3.1	13.6	-5.8	22.8
D	SUM	-16.4		-19.2		-6.4		-6.1		-22.8		-25.6	
LOAD	PX (KIPS)	-9.0		-9.0		-9.0		-9.0		-18.0		-18.0	
LOAD	PY (KIPS)	0.		0.		0.		0.		0.		0.	
ACTUAL	PX (KIPS)			-9.0				-9.0				-18.0	
ACTUAL	PY (KIPS)			0.				0.				0.	

TABLE 12L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

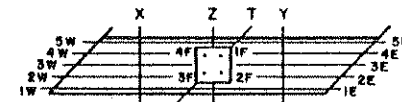
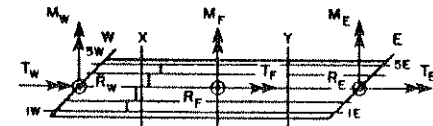
SECTION	GIRDER	1A				2A				1A+2A			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	10.3	18.1	15.8	27.4	5.1	13.3	6.7	18.6	15.4	16.2	22.9	24.3
A	2	13.7	24.2	14.5	25.0	7.1	18.7	6.6	18.1	20.9	22.0	21.2	22.4
A	3	13.5	23.7	12.2	21.0	7.4	19.4	7.1	19.5	20.9	22.0	19.8	21.0
A	4	11.4	20.1	9.8	16.9	10.1	26.4	8.8	24.2	21.5	22.6	18.6	19.7
A	5	7.9	13.8	5.6	9.7	8.5	22.2	7.1	19.5	16.3	17.2	11.9	12.6
A	SUM	56.7		57.9		38.2		36.2		94.9		94.2	
D	1	-2.7	16.6	-3.2	18.9	-1.1	17.3	-1.0	20.2	-3.8	16.8	-4.2	18.5
D	2	-3.7	22.5	-3.9	22.9	-1.4	22.7	-1.2	26.4	-5.2	22.5	-5.1	22.7
D	3	-3.7	22.4	-3.3	19.3	-1.4	22.1	-1.1	23.9	-5.1	22.3	-4.4	19.7
D	4	-3.7	22.3	-4.0	23.7	-1.4	21.9	-.3	5.7	-5.1	22.2	-4.9	21.7
D	5	-2.7	16.2	-2.6	15.3	-1.0	16.1	-1.1	23.9	-3.7	16.2	-3.9	17.4
D	SUM	-16.5		-17.1		-6.4		-4.7		-22.9		-22.5	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXES													
A	1	10.3	18.1	13.5	25.8	5.1	13.3	5.9	17.3	15.4	16.2	10.9	22.7
A	2	13.7	24.2	13.0	24.8	7.1	18.7	6.2	18.0	20.9	22.0	19.2	22.1
A	3	13.4	23.7	11.3	21.6	7.4	19.4	7.1	20.5	20.8	22.0	18.8	21.6
A	4	11.4	20.1	9.2	17.7	10.1	26.4	8.5	24.7	21.4	22.6	18.0	20.7
A	5	7.9	13.9	5.3	10.2	8.5	22.2	6.7	19.5	16.3	17.2	11.3	13.0
A	SUM	56.7		52.4		38.1		34.4		94.8		87.2	
D	1	-2.7	16.6	-3.1	19.0	-1.1	17.3	-.9	21.7	-3.8	16.8	-4.0	19.1
D	2	-3.7	22.5	-3.7	22.8	-1.4	22.6	-1.4	32.1	-5.1	22.5	-4.9	23.0
D	3	-3.7	22.3	-3.1	18.8	-1.4	22.1	-1.2	28.0	-5.1	22.3	-4.2	19.6
D	4	-3.7	22.3	-4.2	26.1	-1.4	21.9	.4	-9.6	-5.1	22.2	-4.8	22.4
D	5	-2.7	16.2	-2.2	13.3	-1.0	16.1	-1.2	27.7	-3.7	16.2	-3.4	15.9
D	SUM	-16.5		-16.3		-6.4		-4.2		-22.9		-21.2	
LOAD	PX (KIPS)	-9.0		-9.0		-9.0		-9.0		-18.0		-18.0	
LOAD	PY (KIPS)	0.		0.		0.		0.		0.		0.	
ACTUAL	PX (KIPS)			-9.0				-9.0				-18.0	
ACTUAL	PY (KIPS)			0.				0.				0.	

**TABLE 13A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR TRUCK LOADS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 30 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT 3-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	7A		4A		7A+4A	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	3.83	3.74	-.91	-.92	2.92	2.84
2E	1.45	1.97	.56	.16	2.02	2.17
3E	.17	.10	1.23	.94	1.40	1.04
4E	-.39	-.89	1.26	2.11	.87	1.30
5E	-.65	-.34	.91	.81	.26	.40
1F	1.94	1.86	5.68	5.84	7.63	7.79
2F	2.74	2.78	.78	.90	3.52	3.76
3F	.71	1.05	-2.46	-2.27	-1.75	-1.54
4F	-.08	-.35	2.45	2.72	2.36	1.98
1W	.12	.25	-.50	-.55	-.37	-.30
2W	.06	0.	-.54	-.15	-.48	-.16
3W	-.04	-.06	-.43	-.59	-.47	-.62
4W	-.24	-.35	.01	.01	-.24	-.29
5W	-.61	-.57	.95	.65	.74	-.01
PE	4.41	4.58	3.06	3.10	7.47	7.25
PF	5.31	5.34	6.45	7.09	11.76	11.95
PW	-.71	-.73	-.51	-.63	-1.22	-1.38
SUMP	9.00	9.19	9.00	9.56	18.00	17.82
PX	-9.00	-9.00	-9.00	-9.00	-18.00	-18.00
PY	0.	0.	0.	0.	0.	0.
SUMP	-9.00	-9.00	-9.00	-9.00	-18.00	-18.00
SUMR/SUMP	1.00	1.02	1.00	1.06	1.00	.99
TW=-MW	-4.54	-5.12	8.84	6.58	4.31	1.16
ME	-6.08	-5.91	-9.71	-9.28	-15.79	-16.72
TF	-2.38	-3.48	14.72	15.04	12.33	11.26
TE=-ME	-27.79	-28.34	11.15	13.91	-16.64	-12.21
ACTUAL PX		-9.00		-9.00		-18.00
ACTUAL PY		0.		0.		0.



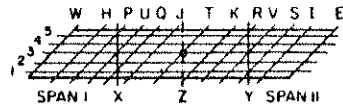
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 13B

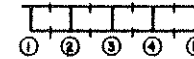
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3A			4A			3A+4A		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	.005	.007	1.40	.024	.028	1.16	.029	.039	1.34
3H	.006	.009	1.40	.018	.023	1.25	.025	.033	1.33
5H	.009	.014	1.64	.007	.009	1.25	.016	.021	1.27
1P	.008	.012	1.42	.036	.040	1.10	.045	.054	1.22
3P	.010	.016	1.62	.026	.030	1.17	.036	.047	1.32
1X	.013	.018	1.39	.051	.058	1.14	.064	.078	1.23
2X	.013			.040			.053		
3X	.013	.020	1.55	.029	.036	1.22	.042	.059	1.41
4X	.013			.019			.031		
5X	.013	.022	1.77	.009	.011	1.28	.021	.036	1.67
1U	.011	.014	1.21	.045	.052	1.15	.057	.072	1.27
5U	.014	.023	1.67	.005	.007	1.33	.019	.033	1.75
3O	.013	.020	1.51	.028	.033	1.20	.041	.054	1.32
5O	.012	.021	1.78	-.004	0.	0.	.008	.020	2.58
1J	.013	.014	1.09	.051	.059	1.16	.064	.075	1.18
3J	.011	.016	1.44	.021	.026	1.22	.032	.043	1.37
5J	.006	-.010	-1.58	-.019	-.001	.06	-.013	.009	-.69
1T	.005	.005	.93	.041	.046	1.12	.046	.051	1.11
2T	.003			.021			.024		
4T	-.004			-.025			-.030		
5T	-.009	-.011	1.13	-.054	-.060	1.11	-.064	-.075	1.19

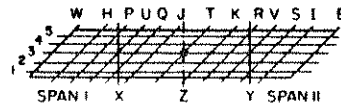


**TABLE 13C**

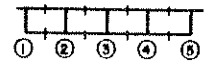
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

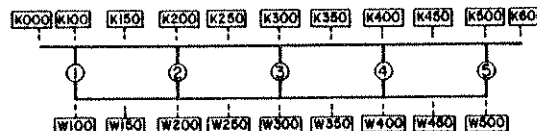
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3A			4A			3A+4A		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.016	-.025	1.62	.017	.015	.91	.001	-.009	-7.76
3K	-.022	-.030	1.37	-.034	-.045	1.32	-.056	-.076	1.36
5K	-.027	-.036	1.35	-.099	-.125	1.27	-.126	-.164	1.31
1P	-.034	-.049	1.44	-.003	-.009	3.52	-.037	-.061	1.66
3P	-.035	-.050	1.43	-.055	-.073	1.34	-.090	-.127	1.41
1Y	-.055	-.083	1.52	-.026	-.038	1.48	-.080	-.125	1.55
2Y	-.050			-.044			-.093		
3Y	-.040	-.051	1.28	-.065	-.077	1.18	-.105	-.134	1.28
4Y	-.034			-.092			-.127		
5Y	-.033	-.046	1.42	-.115	-.155	1.35	-.147	-.204	1.39
1V	-.051	-.075	1.49	-.018	-.029	1.62	-.069	-.105	1.52
5V	-.032	-.048	1.53	-.110	-.148	1.35	-.141	-.202	1.43
3S	-.034	-.054	1.56	-.062	-.085	1.37	-.096	-.140	1.45
5S	-.025	-.038	1.56	-.099	-.117	1.31	-.113	-.160	1.42
1I	-.042	-.063	1.50	-.022	-.034	1.53	-.064	-.094	1.46
3I	-.022	-.034	1.54	-.045	-.059	1.30	-.067	-.099	1.48
5I	-.014	-.023	1.61	-.058	-.075	1.30	-.072	-.104	1.44
LOAD PX	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD PY	0.	0.		0.	0.		0.	0.	
ACTUAL PX		-9.0			-9.0			-18.0	
ACTUAL PY		0.			0.			0.	

TABLE 13D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

1 KIP = 4.448 kN  
 1 IN = 25.4 mm

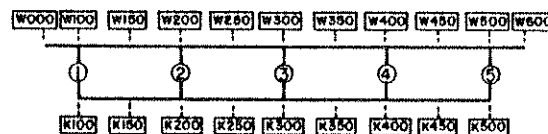
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3A			4A			3A+4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	3	27	5	9	47	13	12	75	19
K	K100	4	5	5	10	13	15	15	20	22
K	K150	3	9	5	9	17	13	13	27	19
K	K200	3	3	4	9	10	11	13	13	15
K	K250	3	3	3	9	10	10	13	14	14
K	K300	3	5	3	9	9	9	13	15	13
K	K350	3	2	3	9	9	9	13	11	13
K	K400	3	5	3	9	9	9	13	14	12
K	K450	3	3	3	9	8	9	13	11	12
K	K500	4	3	3	11	8	8	16	11	11
K	K600	4	2	2	9	4	4	13	5	5
W	W100	-9	-14	-14	-25	-26	-26	-34	-42	-40
W	W150	-10	-10	-11	-29	-19	-19	-40	-31	-30
W	W200	-12	-9	-10	-34	-22	-22	-46	-31	-33
W	W250	-13	-12	-13	-35	-6	-22	-48	-19	-33
W	W300	-14	-16	-16	-36	-21	-21	-51	-40	-38
W	W350	-14	-11	-10	-37	-12	-14	-51	-26	-27
W	W400	-14	-14	-14	-37	-18	-18	-52	-33	-34
W	W450	-13	-16	-9	-33	-17	-15	-46	-33	-31
W	W500	-12	-10	-10	-29	-12	-11	-42	-25	-23
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD	PY (KIPS)	0.	0.		0.	0.		0.	0.	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		0.			0.			0.	

**TABLE 13E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

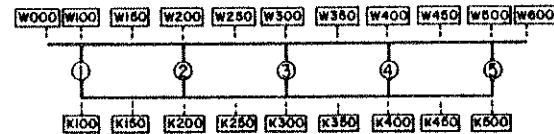
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3A			4A			3A+4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	34	24	25	44	14	35	78	30	63
W	W100	34	25	24	44	35	34	78	63	62
W	W150	29	16	15	36	21	20	66	41	40
W	W200	31	16	16	36	25	25	68	47	48
W	W250	23	15	15	28	20	19	51	39	38
W	W300	15	15	13	27	20	21	42	37	37
W	W350	20	13	14	31	24	25	52	37	40
W	W400	20	19	19	33	41	39	53	63	62
W	W450	18	16	15	32	27	25	51	45	40
W	W500	19	12	12	40	32	32	59	48	48
W	W600	19	9	9	40	30	30	59	44	44
K	K100	-13	-12	-12	-17	-20	-20	-31	-32	-32
K	K150	-13	-40	-28	-16	-43	-35	-30	-81	-62
K	K200	-13	-12	-14	-15	-17	-20	-29	-29	-35
K	K250	-12	-14	-11	-14	-19	-14	-27	-33	-25
K	K300	-9	-13	-13	-17	-14	-16	-27	-27	-28
K	K350	-12	-10	-12	-18	-17	-17	-31	-26	-29
K	K400	-11	-13	-10	-19	-17	-16	-31	-31	-26
K	K450	-10	-14	-15	-18	-16	-17	-29	-29	-31
K	K500	-9	-11	-11	-20	-20	-20	-29	-31	-31
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD	PY (KIPS)	0.	0.		0.	0.		0.	0.	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		0.			0.			0.	

TABLE 13F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

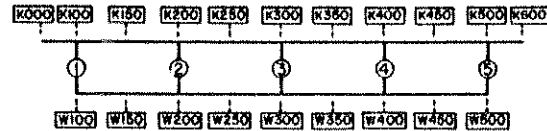
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3A			4A			3A+4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W300	39	17	17	35	25	14	75	45	45
W	W100	39	28	27	35	14	13	75	42	41
W	W150	28	32	30	25	19	17	53	53	50
W	W200	26	37	37	22	18	19	49	59	60
W	W250	24	32	36	21	23	21	46	56	58
W	W300	24	21	21	21	27	27	45	55	55
W	W375	10	12	13	14	15	19	24	31	33
W	W425	5	10	9	16	25	24	22	20	38
W	W475	-3	2	3	5	26	29	1	33	34
W	W600	-11	-4	-3	-1	19	20	-13	18	17
W	W100	-11	-8	-4	-1	26	25	-13	234	18
K	K100	-20	-20	-20	-16	-23	-24	-37	-43	-44
K	K150	-16	-18	-20	-14	-22	-16	-30	-40	-37
K	K200	-16	-21	-15	-13	-16	-22	-29	-37	-41
K	K250	-14	-14	-17	-12	-17	-16	-26	-31	-33
K	K300	-13	-24	-19	-11	-17	-4	-25	-42	-22
K	K350	-5	-14	-14	-8	1	1	-14	-14	-17
K	K400	-1	-5	-5	-7	-14	-3	-9	-19	-15
K	K450	1	-2	-2	-3	-6	-7	-2	-8	-8
K	K500	4	0	0	-1	-10	-10	2	-10	-10
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD	PY (KIPS)	0.	0.		0.	0.		0.	0.	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		0.			0.			0.	

**TABLE 13G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

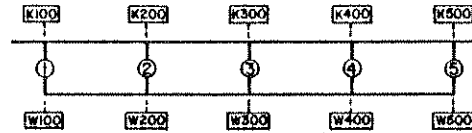
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3A			4A			3A+4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-27	-22	-22	-24	-17	-17	-51	-37	-37
K	K100	-33	-25	-25	-28	-20	-20	-62	-44	-44
K	K150	-25	-21	-25	-25	-21	-23	-50	-41	-47
K	K200	-25	-24	-24	-26	-20	-20	-52	-53	-53
K	K250	-22	-18	-20	-27	-26	-27	-50	-44	-46
K	K300	-20	-18	-18	-30	-29	-29	-50	-45	-47
K	K350	-17	-13	-14	-32	-25	-26	-50	-38	-40
K	K400	-16	-15	-15	-36	-36	-36	-53	-50	-50
K	K450	-15	-16	-18	-36	-36	-43	-51	-52	-53
K	K500	-17	-16	-16	-46	-40	-41	-63	-56	-58
K	K600	-14	-17	-17	-37	-48	-48	-52	-67	-67
W	W125	98	135	137	74	88	89	172	171	235
W	W175	93	76	74	84	62	64	178	150	142
W	W225	101	111	109	99	92	92	201	174	201
W	W275	84	69	74	105	85	84	190	160	158
W	W325	75	0	68	115	0	91	191	154	161
W	W375	63	44	49	120	77	87	193	160	176
W	W425	56	76	74	131	134	132	197	152	180
W	W475	45	37	41	118	75	80	163	29	140
W	W500	38	42	47	115	100	107	154	153	162
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0		-18.0	-18.0	
LOAD	PY (KIPS)	0.	0.		0.	0.		0.	0.	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		0.			0.			0.	

TABLE 13H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3A			4A			3A+4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST

SECTION H

K	K100	-0	1		5	3		5	3
K	K200	0	1		6	5		6	6
K	K300	0	1		7	5		8	6
K	K400	1	1		8	8		9	10
K	K500	3	2		10	7		13	10
W	W100	0	-2		-7	-2		-7	-3
W	W200	-0	-4		-8	-8		-8	-15
W	W300	-0	2		-9	-17		-9	-15
W	W400	-1	-8		-10	-7		-11	-17
W	W500	-3	-14		-11	-14		-14	-29

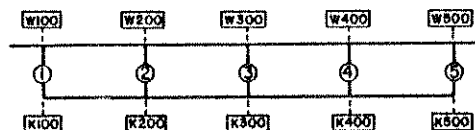
SECTION F

K	K100	2	2		9	7		11	10
K	K200	2	4		8	9		11	13
K	K400	5	7		10	11		15	19
K	K500	7	6		13	11		20	17
W	W100	-2	-6		-9	-12		-12	-17
W	W200	-3	-6		-11	-15		-14	-23
W	W400	-6	-15		-12	-12		-19	-30
W	W500	-8	-15		-14	-16		-22	-32

**TABLE 131**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D.F.F.G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3A			4A			7A+4A		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	8	5		13	10		21	16	
W	W200	8	10		12	17		20	30	
W	W300	8	24		12	36		21	61	
W	W400	8	15		13	29		21	49	
W	W500	9	15		15	30		25	51	
K	K100	-8	-26		-14	-20		-22	-59	
K	K200	-10	-10		-15	-16		-25	-27	
K	K300	-10	-10		-15	-17		-26	-26	
K	K400	-9	-12		-16	-15		-26	-26	
K	K500	-9	-13		-16	-18		-26	-30	

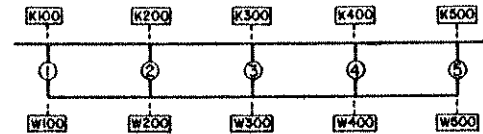
SECTION K

W	W100	7	15		4	5		12	23	
W	W200	2	8		-0	2		1	11	
W	W300	-5	-7		-6	-2		-11	-9	
W	W400	-9	-26		-13	-31		-23	-55	
W	W500	-14	-14		-33	-30		-47	-47	
K	K100	-8	-15		-4	-8		-12	-22	
K	K200	-2	-2		1	-3		-1	-6	
K	K300	6	6		7	5		14	9	
K	K400	11	9		17	9		28	17	
K	K500	14	18		27	50		52	69	

TABLE 13J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3A			4A			3A+4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-36	-37		-24	-24		-61	-62	
K	K200	-29	-29		-25	-26		-51	-56	
K	K400	-13	-13		-30	-28		-44	-41	
K	K500	-12	-11		-31	-21		-43	-33	
W	W100	43	102		25	54		69	159	
W	W200	36	72		31	55		64	144	
W	W400	17	73		39	144		56	213	
W	W500	12	51		34	180		47	224	
SECTION I										
K	K100	-22	-10		-28	-17		-50	-26	
K	K200	-9	-9		-22	-23		-32	-31	
K	K300	-4	-2		-21	-19		-25	-20	
K	K400	-2	-1		-16	-13		-18	-15	
K	K500	-1	-3		-13	-9		-14	-11	
W	W100	25	39		30	36		55	83	
W	W200	12	38		27	65		40	105	
W	W300	6	31		25	56		31	91	
W	W400	3	8		21	48		24	58	
W	W500	0	3		16	16		17	21	



**TABLE 13K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

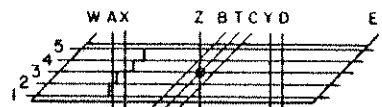
1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

		3A				4A				7A+4A			
SECTION	GIRDER	THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	-1.2	18.9	-1.1	17.4	-3.2	19.2	-1.8	19.1	-4.4	19.1	-2.8	17.2
A	2	-1.2	19.0	-1.3	20.4	-3.4	20.3	-2.4	25.1	-4.6	20.0	-3.6	21.8
A	3	-1.3	20.2	-1.6	26.2	-3.4	20.3	-2.2	22.8	-4.7	20.3	-3.9	23.4
A	4	-1.4	20.9	-1.4	23.2	-3.4	20.4	-2.0	21.5	-4.8	20.5	-3.9	23.7
A	5	-1.4	20.9	-.8	12.9	-3.3	19.8	-1.1	11.6	-4.7	20.1	-2.3	13.8
A	SUM	-6.5		-6.2		-16.7		-9.5		-23.2		-16.5	
D	1	9.3	25.7	10.5	26.1	8.5	15.6	7.5	15.4	17.8	19.6	18.7	20.8
D	2	8.9	24.4	11.7	29.1	9.4	17.3	10.6	21.6	18.3	20.2	22.4	24.9
D	3	7.1	19.6	7.6	18.9	10.8	19.9	10.4	21.2	17.9	19.8	18.2	20.2
D	4	5.9	16.2	6.6	16.4	12.7	23.3	12.0	24.6	18.5	20.4	17.3	19.3
D	5	5.1	14.1	3.8	9.5	13.0	23.9	8.4	17.2	18.1	20.0	13.2	14.7
D	SUM	36.3		40.1		54.4		49.0		90.7		89.8	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	-.8	13.1	-1.7	30.1	-2.2	13.5	-4.7	27.2	-3.1	13.4	-7.1	29.2
A	2	-1.5	22.7	-1.3	22.3	-4.0	24.1	-3.9	22.4	-5.5	23.7	-5.4	21.9
A	3	-1.6	24.2	-.9	15.3	-4.0	24.1	-3.3	19.2	-5.6	24.1	-4.6	19.9
A	4	-1.6	25.1	-1.0	16.8	-4.0	24.3	-3.1	18.1	-5.7	24.5	-4.3	17.4
A	5	-1.0	15.0	-.9	15.6	-2.3	14.0	-2.3	13.1	-3.3	14.3	-3.1	12.6
A	SUM	-6.5		-5.7		-16.6		-17.3		-23.1		-24.4	
D	1	7.4	20.4	9.0	23.5	5.8	10.7	7.5	12.2	13.2	14.6	16.0	16.0
D	2	10.7	29.4	9.3	24.3	10.8	19.9	11.1	17.9	21.5	23.7	20.2	20.3
D	3	9.2	22.5	7.1	18.5	12.5	23.0	11.3	18.3	20.7	22.8	18.1	18.2
D	4	6.6	18.2	6.2	16.2	15.2	28.0	14.3	23.2	21.9	24.1	20.8	20.9
D	5	3.4	9.5	6.7	17.5	10.0	18.4	17.5	28.4	13.4	14.8	24.6	24.6
D	SUM	36.3		38.2		54.3		61.7		90.6		99.7	
LOAD	PX (KIPS)	-9.0		-9.0		-9.0		-9.0		-18.0		-18.0	
LOAD	PY (KIPS)	0.		0.		0.		0.		0.		0.	
ACTUAL	PX (KIPS)			-9.0				-9.0				-18.0	
ACTUAL	PY (KIPS)			0.				0.				0.	

TABLE 13L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	NORMALIZED POINT LOADS AT											
		3A				4A				3A+4A			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT		
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	-1.0	15.6	-1.4	23.8	-2.7	16.0	-3.7	24.5	-3.7	15.9	-5.1	24.7
A	2	-1.4	21.1	-1.3	21.3	-3.7	22.4	-3.1	23.3	-5.1	22.0	-4.5	21.9
A	3	-1.5	22.4	-1.2	20.6	-3.7	22.4	-2.8	20.4	-5.2	22.4	-4.2	20.6
A	4	-1.5	23.3	-1.2	20.0	-3.8	22.6	-2.6	19.2	-5.3	22.8	-4.1	19.8
A	5	-1.1	17.6	-0.9	14.3	-2.8	16.6	-1.7	12.6	-3.9	16.8	-2.7	13.0
A	SUM	-6.5		-5.9		-16.7		-13.5		-23.1		-20.6	
D	1	8.2	22.7	9.8	24.9	7.0	12.9	7.5	13.7	15.2	16.8	17.4	18.4
D	2	9.9	27.2	10.6	26.9	10.2	18.7	10.8	19.7	20.1	22.1	21.4	22.6
D	3	7.7	21.2	7.3	18.7	11.8	21.6	10.8	19.7	19.5	21.5	18.2	19.2
D	4	6.3	17.3	6.4	16.3	14.1	25.9	13.1	23.8	20.4	22.5	19.0	20.1
D	5	4.2	11.5	5.2	13.1	11.3	20.8	12.7	23.1	15.5	17.1	18.5	19.6
D	SUM	36.3		39.2		54.4		54.9		90.7		94.4	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	-1.0	15.7	-1.2	21.4	-2.7	16.1	-3.0	24.1	-3.7	16.0	-4.6	24.3
A	2	-1.4	21.0	-1.2	20.7	-3.7	22.4	-2.9	23.4	-5.1	22.0	-4.1	21.8
A	3	-1.5	22.4	-1.3	23.3	-3.7	22.4	-2.5	20.3	-5.2	22.4	-3.9	20.5
A	4	-1.5	23.2	-1.2	21.1	-3.8	22.5	-2.7	19.0	-5.3	22.7	-3.8	20.1
A	5	-1.1	17.6	-0.8	13.3	-2.8	16.6	-1.6	13.2	-3.9	16.9	-2.5	13.2
A	SUM	-6.5		-5.7		-16.7		-12.3		-23.1		-18.8	
D	1	8.2	22.6	10.0	25.5	7.0	12.9	7.4	14.3	15.2	16.8	17.8	19.5
D	2	9.9	27.3	11.0	28.0	10.2	18.7	10.6	20.3	20.1	22.2	21.5	23.5
D	3	7.7	21.2	7.3	18.7	11.8	21.6	10.5	20.2	19.4	21.5	17.9	19.6
D	4	6.3	17.3	6.4	16.2	14.1	26.0	12.4	23.8	20.4	22.5	17.9	19.6
D	5	4.2	11.6	4.5	11.6	11.3	20.8	11.1	21.4	15.5	17.1	16.3	17.8
D	SUM	36.2		39.2		54.3		51.9		90.5		91.4	
LOAD	PX (KIPS)	-9.0		-9.0		-9.0		-9.0		-18.0		-18.0	
LOAD	PY (KIPS)	0.		0.		0.		0.		0.		0.	
ACTUAL	PX (KIPS)			-9.0				-9.0				-18.0	
ACTUAL	PY (KIPS)			0.				0.				0.	

13L

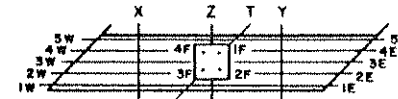
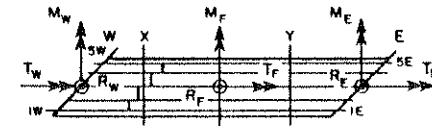
**TABLE 14A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT			
	1A+3A		2A+3A	
	THEORY	EXPERM	THEORY	EXPERM
1E	4.79	4.74	3.26	2.95
2E	1.46	2.03	1.22	1.68
3E	-.26	-.36	.11	.08
4E	-.93	-1.94	-.74	-.62
5E	-1.15	-.39	-.54	-.27
1F	-.52	-.70	2.53	2.63
2F	5.11	5.00	2.67	2.40
3F	6.28	7.36	2.64	3.02
4F	.65	.30	2.50	2.96
1W	1.09	1.46	-.57	-.61
2W	1.36	.69	-.39	-.06
3W	1.24	1.66	.21	.70
4W	.78	-.10	1.70	1.48
5W	-1.50	-1.30	3.30	2.80
DE	3.91	4.09	3.72	3.82
RE	11.51	11.96	10.33	11.01
RW	2.57	2.41	3.95	3.91
SUMR	18.00	18.45	18.00	18.74
PX	-9.00	-9.00	-9.00	-8.96
PY	-9.00	-9.00	-9.00	-9.04
SUMP	-18.00	-18.00	-18.00	-18.00
SUMR/SUMP	1.00	1.02	1.00	1.04
TW=-MW	-15.85	-16.23	23.98	21.50
MF	3.51	5.04	-.08	1.43
TF	-16.90	-19.14	-.41	.25
TE=-ME	-16.67	-16.59	-23.57	-22.47
ACTUAL PX		-9.00		-9.00
ACTUAL PY		-9.00		-9.00



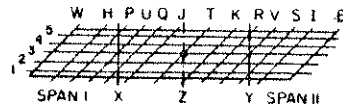
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 14B**

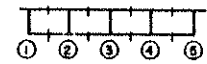
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT  
 1A+3A 2A+3A

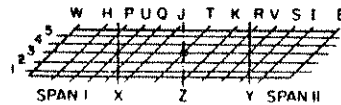
DEFLECTION AT POINT	***** 1A+3A *****			***** 2A+3A *****			***** ***** *****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.054	-.078	1.45	-.010	-.018	1.72			
3H	-.041	-.059	1.44	-.017	-.024	1.47			
5H	-.016	-.019	1.20	-.032	-.041	1.29			
1P	-.081	-.116	1.43	-.018	-.027	1.52			
3P	-.055	-.080	1.46	-.025	-.040	1.58			
1X	-.099	-.145	1.47	-.027	-.032	1.39			
2X	-.077			-.025					
3X	-.055	-.081	1.47	-.028	-.042	1.48			
4X	-.035			-.033					
5X	-.016	-.026	1.68	-.038	-.065	1.73			
1U	-.097	-.147	1.51	-.023	-.034	1.46			
5U	-.006	-.010	1.69	-.031	-.046	1.49			
3Q	-.042	-.061	1.44	-.022	-.032	1.42			
5Q	.009	.012	1.33	-.019	-.028	1.48			
1J	-.083	-.120	1.45	-.017	-.022	1.35			
3J	-.023	-.033	1.43	-.011	-.016	1.48			
5J	.023	-.003	-.12	-.008	.007	-.86			
1T	-.048	-.063	1.32	-.005	-.003	.68			
2T	-.022			-.002					
4T	.016			-.001					
5T	.031	.039	1.25	-.003	-.006	1.67			

**TABLE 14C**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

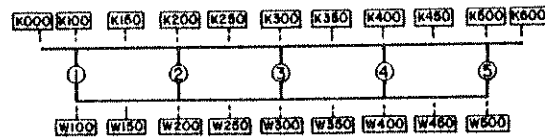
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1A+3A			2A+3A			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.035	-.045	1.29	-.010	-.012	1.27			
3K	-.001	-.002	1.93	-.011	-.016	1.41			
5K	.024	.029	1.24	-.014	-.022	1.56			
1R	-.039	-.050	1.29	-.023	-.029	1.25			
3R	-.007	-.013	1.84	-.022	-.029	1.34			
1Y	-.046	-.064	1.39	-.043	-.060	1.40			
2Y	-.031			-.037					
3Y	-.011	-.016	1.44	-.027	-.034	1.28			
4Y	.005			-.021					
5Y	.017	.018	1.05	-.020	-.029	1.48			
1V	-.046	-.064	1.39	-.038	-.051	1.37			
5V	.013	.011	.79	-.020	-.030	1.48			
3S	-.009	-.018	2.09	-.024	-.037	1.54			
5S	.011	.025	.47	-.016	-.026	1.63			
1I	-.035	-.050	1.43	-.037	-.047	1.41			
3I	-.014	-.009	2.53	-.016	-.025	1.58			
5I	.009	.007	.76	-.009	-.016	1.71			
LOAD PX	-9.0	-9.0		-9.0	-9.0				
LOAD PY	-9.0	-9.0		-9.0	-9.0				
ACTUAL PX		-9.0			-9.0				
ACTUAL PY		-9.0			-9.1				

**TABLE 14D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

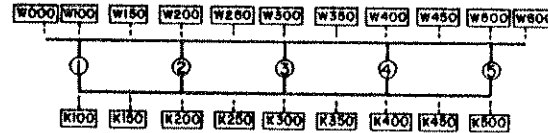
1 KIP = 4.448 kN  
1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	1A+3A			NORMALIZED POINT LOADS AT 2A+3A			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-29	-244	-51	-14	-31	-17			
K	K100	-38	-53	-59	-16	-18	-20			
K	K150	-31	-66	-51	15	-30	-18			
K	K200	-31	-38	-42	-2	-13	-15			
K	K250	-31	-35	-36	-14	-14	-14			
K	K300	-32	-36	-32	-14	-21	-15			
K	K350	-28	-25	-28	-18	-14	-17			
K	K400	-25	-26	-23	-22	-29	-20			
K	K450	-23	-19	-20	-22	-22	-25			
K	K500	-27	-19	-18	-30	-27	-25			
K	K600	-23	-10	-10	-24	-16	-16			
W	W100	92	152	147	39	53	52			
W	W150	100	87	80	42	43	47			
W	W200	112	122	121	53	43	46			
W	W250	113	-44	82	52	58	50			
W	W300	121	113	112	56	67	64			
W	W350	104	61	59	69	49	52			
W	W400	95	70	73	88	64	63			
W	W450	80	55	60	82	65	74			
W	W500	72	27	26	89	33	39			
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0				
LOAD	PY (KIPS)	-9.0	-9.0		-9.0	-9.0				
ACTUAL	PX (KIPS)		-9.0			-9.0				
ACTUAL	PY (KIPS)		-9.0			-9.1				

**TABLE 14E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

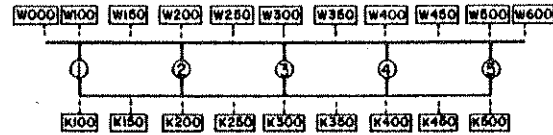
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1A+7A			NORMALIZED POINT LOADS AT 2A+3A			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	30	52	53	26	39	22			
W	W100	30	53	52	26	22	22			
W	W150	33	37	38	29	20	21			
W	W200	46	48	48	40	30	30			
W	W250	40	39	39	37	38	36			
W	W300	37	49	44	40	43	38			
W	W350	43	39	43	43	38	41			
W	W400	44	52	50	44	51	51			
W	W450	44	35	32	43	50	44			
W	W500	55	32	32	54	48	47			
W	W600	55	27	27	54	39	39			
K	K100	-13	-26	-26	-11	-14	-14			
K	K150	-16	-48	-44	-13	-58	-46			
K	K200	-19	-24	-27	-17	-19	-22			
K	K250	-20	-26	-22	-19	-27	-22			
K	K300	-21	-26	-28	-23	-35	-31			
K	K350	-25	-28	-29	-25	-22	-28			
K	K400	-26	-29	-27	-26	-33	-22			
K	K450	-24	-28	-29	-25	-32	-36			
K	K500	-26	-27	-27	-27	-27	-26			
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0				
LOAD	PY (KIPS)	-9.0	-9.0		-9.0	-9.0				
ACTUAL	PX (KIPS)		-9.0			-9.0				
ACTUAL	PY (KIPS)		-9.0			-9.1				

TABLE 14F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

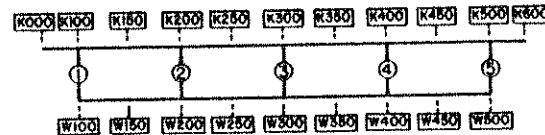
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A+3A			2A+3A			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	76	39	39	61	12	43			
W	W100	76	53	52	61	43	42			
W	W150	58	67	63	48	54	49			
W	W200	58	71	72	47	64	64			
W	W250	54	56	60	45	50	57			
W	W300	51	51	51	39	41	42			
W	W350	34	31	33	28	28	30			
W	W400	42	34	33	34	29	27			
W	W450	32	31	35	24	21	22			
W	W500	32	19	20	20	10	11			
W	W600	32	30	19	20	12	12			
K	K100	-38	-50	-50	-31	-37	-36			
K	K150	-34	-50	-52	-28	-33	-36			
K	K200	-34	-42	-37	-28	-36	-28			
K	K250	-32	-31	-35	-26	-27	-32			
K	K300	-31	-42	-36	-23	-41	-37			
K	K350	-20	-30	-31	-17	-33	-29			
K	K400	-17	-22	-22	-14	-16	-17			
K	K450	-14	-20	-20	-11	-15	-15			
K	K500	-13	-19	-19	-8	-10	-10			
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0				
LOAD	PY (KIPS)	-9.0	-9.0		-9.0	-9.0				
ACTUAL	PX (KIPS)		-9.0			-9.0				
ACTUAL	PY (KIPS)		-9.0			-9.1				



**TABLE 14G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

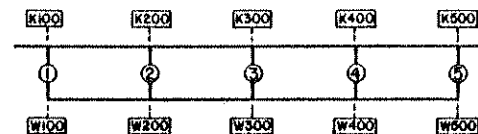
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1A+3A			NORMALIZED POINT LOADS AT 2A+3A			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-17	-15	-15	-23	-21	-21			
K	K100	-22	-17	-17	-20	-23	-23			
K	K150	-16	-12	-20	-22	-20	-23			
K	K200	-16	-13	-13	-22	-21	-21			
K	K250	-12	-8	-9	-18	-16	-17			
K	K300	-10	-9	-9	-16	-15	-15			
K	K350	-8	-5	-5	-14	-11	-12			
K	K400	-7	-6	-6	-12	-12	-12			
K	K450	-5	-8	-7	-11	-11	-12			
K	K500	-6	-8	-8	-13	-11	-11			
K	K600	-5	-6	-6	-10	-11	-11			
W	W100	68	92	96	85	125	125			
W	W150	61	55	50	80	67	68			
W	W200	64	82	73	86	96	95			
W	W250	48	41	46	70	58	61			
W	W300	39	0	41	61	0	54			
W	W350	28	25	23	50	34	39			
W	W400	22	-2	-2	43	23	21			
W	W450	16	20	15	34	27	28			
W	W500	13	18	18	29	34	38			
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-9.0				
LOAD	PY (KIPS)	-9.0	-9.0		-9.0	-9.0				
ACTUAL	PX (KIPS)		-9.0			-9.0				
ACTUAL	PY (KIPS)		-9.0			-9.1				

TABLE 14H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F,G



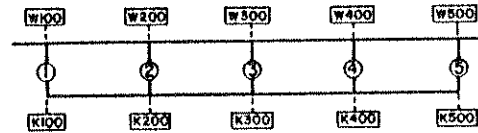
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT					
		1A+3A			2A+3A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H							
K	K100	-15	-8		-0	-3	
K	K200	-17	-16		-1	-5	
K	K300	-21	-18		-4	-5	
K	K400	-22	-26		-10	-11	
K	K500	-26	-19		-25	-20	
W	W100	19	6		0	5	
W	W200	22	51		2	28	
W	W300	25	68		6	8	
W	W400	27	40		13	47	
W	W500	28	60		31	104	
SECTION F							
K	K100	-31	-25		-9	-10	
K	K200	-34	-36		-11	-15	
K	K400	-24	-31		-18	-26	
K	K500	-20	-16		-20	-19	
W	W100	35	55		9	28	
W	W200	43	82		14	30	
W	W400	30	60		23	87	
W	W500	21	68		22	122	

**TABLE 141**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT					
		1A+3A			2A+3A		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST

SECTION J

W	W100	-10	-12		-6	-2	
W	W200	-5	-4		-0	1	
W	W300	3	28		4	18	
W	W400	9	25		10	24	
W	W500	15	32		15	37	
K	K100	21	85		6	8	
K	K200	5	4		0	-1	
K	K300	-3	-9		-5	-4	
K	K400	-10	-12		-11	-18	
K	K500	-15	-23		-15	-19	

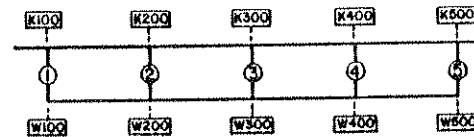
SECTION K

W	W100	22	43		17	31	
W	W200	15	33		10	22	
W	W300	7	18		3	6	
W	W400	2	14		-1	0	
W	W500	-0	1		-6	-4	
K	K100	-24	-28		-19	-28	
K	K200	-18	-19		-12	-12	
K	K300	-8	-11		-3	-4	
K	K400	-3	-8		1	9	
K	K500	0	-2		6	6	

**TABLE 14J**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A+3A			2A+3A					
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-23	-23		-29	-31				
K	K200	-18	-19		-24	-24				
K	K400	-5	-4		-11	-11				
K	K500	-3	-5		-9	-9				
W	W100	29	71		36	84				
W	W200	24	51		30	57				
W	W400	6	18		13	57				
W	W500	3	11		10	38				
SECTION I										
K	K100	-12	-4		-19	-10				
K	K200	-1	-2		-8	-8				
K	K300	3	5		-3	-2				
K	K400	4	4		-1	-2				
K	K500	4	1		-1	-3				
W	W100	13	26		21	33				
W	W200	2	13		10	31				
W	W300	-2	13		5	26				
W	W400	-4	-6		2	10				
W	W500	-6	-2		0	5				

TABLE 14K

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1A+7A				NORMALIZED POINT LOADS AT 2A+7A				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	10.8	21.4	9.4	21.9	2.5	10.0	4.2	14.5				
A	2	11.2	22.2	11.3	26.5	.9	3.7	5.4	19.5				
A	3	11.2	22.2	10.2	23.9	5.5	22.2	6.6	22.8				
A	4	9.1	18.2	8.2	19.2	7.7	31.0	8.0	27.4				
A	5	8.1	16.0	3.6	8.4	8.2	33.1	4.9	16.8				
A	SUM	50.3		42.8		24.9		29.0					
D	1	6.1	30.6	7.2	30.5	8.0	26.8	9.6	28.0				
D	2	5.5	27.8	8.1	34.0	7.6	25.3	10.2	29.7				
D	3	3.8	19.0	4.5	19.1	5.8	19.5	6.0	17.5				
D	4	2.5	12.8	1.4	5.8	4.6	15.4	5.7	16.8				
D	5	1.9	9.7	2.6	10.8	3.9	13.0	2.8	8.1				
D	SUM	19.8		23.7		20.9		34.3					
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	8.1	16.2	18.5	32.0	.9	3.5	6.4	20.2				
A	2	13.3	26.5	14.5	25.1	3.6	13.5	5.3	16.8				
A	3	12.7	25.2	11.1	19.3	6.3	23.6	5.2	16.6				
A	4	10.5	20.8	8.2	14.2	9.2	34.5	7.2	22.9				
A	5	5.7	11.3	5.5	9.4	6.7	24.9	7.4	23.5				
A	SUM	50.2		57.8		26.7		31.5					
D	1	5.1	25.6	6.5	31.5	6.5	21.6	8.4	26.4				
D	2	6.7	33.8	5.5	26.6	9.1	30.5	8.3	26.1				
D	3	4.2	21.2	3.0	14.5	6.6	22.2	6.0	19.0				
D	4	2.7	13.5	2.8	13.5	5.1	17.1	4.6	14.6				
D	5	1.2	6.0	2.9	13.9	2.5	8.6	4.5	14.0				
D	SUM	19.9		20.6		20.9		31.9					
LOAD	PX (KIPS)	-9.0		-9.0		-9.0		-9.0					
LOAD	PY (KIPS)	-9.0		-9.0		-9.0		-9.0					
ACTUAL	PX (KIPS)			-9.0				-9.0					
ACTUAL	PY (KIPS)			-9.0				-9.1					

TABLE 14L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

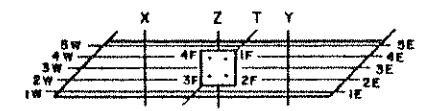
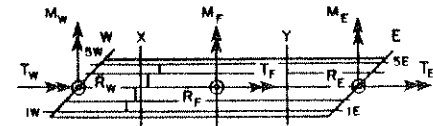
SECTION	GIRDER	1A+3A				NORMALIZED POINT LOADS AT 2A+3A				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	9.3	18.5	14.0	27.9	1.6	6.2	5.3	17.6				
A	2	12.4	24.6	12.9	25.7	2.4	9.3	5.3	17.6				
A	3	12.0	23.9	10.6	21.1	6.0	23.0	5.9	19.4				
A	4	9.9	19.7	8.2	16.2	8.6	33.1	7.5	25.0				
A	5	6.7	13.4	4.6	9.0	7.4	28.4	6.2	20.5				
A	SUM	50.3		50.3		25.9		30.2					
D	1	5.5	27.8	6.9	30.9	7.1	23.9	9.0	27.2				
D	2	6.2	31.2	6.9	30.8	8.4	28.2	9.3	28.1				
D	3	4.0	20.2	3.8	17.1	6.3	21.0	6.0	18.1				
D	4	2.6	13.2	2.0	9.1	4.9	16.3	5.2	15.7				
D	5	1.5	7.6	2.7	12.1	3.2	10.5	3.6	10.8				
D	SUM	19.8		22.3		29.9		33.1					
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	9.3	18.5	11.9	26.3	1.6	6.3	4.7	16.4				
A	2	12.4	24.6	11.5	25.5	2.4	9.2	5.0	17.5				
A	3	12.0	23.9	9.8	21.5	5.9	23.0	5.8	20.2				
A	4	9.9	19.6	7.7	16.9	8.6	33.1	7.2	25.2				
A	5	6.7	13.4	4.4	9.8	7.3	28.4	5.9	20.8				
A	SUM	50.2		45.3		25.8		28.6					
D	1	5.5	27.7	7.0	29.3	7.1	23.8	9.2	27.6				
D	2	6.2	31.2	7.5	31.5	8.4	28.2	9.6	28.9				
D	3	4.0	20.2	4.2	17.5	6.3	21.0	5.9	17.7				
D	4	2.6	13.2	2.6	10.7	4.9	16.3	5.5	16.4				
D	5	1.5	7.8	2.6	11.0	3.2	10.6	3.1	9.4				
D	SUM	19.8		23.8		29.9		33.3					
LOAD	PX (KIPS)	-9.0		-9.0		-9.0		-9.0					
LOAD	PY (KIPS)	-9.0		-9.0		-9.0		-9.0					
ACTUAL	PX (KIPS)			-9.0				-9.0					
ACTUAL	PY (KIPS)			-9.0				-9.1					

TABLE 15A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR TRUCK LOADS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 30 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	1A+4A		2A+4A		1 TO 4A	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	.05	-.38	-1.47	-1.42	3.31	2.59
2E	.57	.49	.73	-.42	1.77	2.05
3E	.81	.68	1.18	.93	.92	.75
4E	.72	1.39	1.31	2.34	.38	.74
5E	.41	.53	1.03	1.02	-.12	.11
1F	3.22	3.19	6.27	6.69	5.75	5.39
2F	3.15	3.10	.71	.30	5.82	5.28
3F	3.11	3.82	-.53	-.46	5.75	7.00
4F	3.18	3.42	5.03	6.19	5.68	6.20
1W	.47	.83	-1.19	-1.38	-.10	.23
2W	.76	.39	-.89	-.17	.47	.30
3W	.86	1.42	-.17	-.41	1.07	1.72
4W	.63	.47	1.55	1.78	1.93	1.89
5W	.06	-.36	4.85	4.22	3.35	2.36
RE	2.57	2.69	2.37	2.45	6.28	6.24
RF	12.66	13.53	11.49	12.72	22.99	23.86
RW	2.78	2.75	4.15	4.04	6.72	6.50
SUMR	18.00	18.97	18.00	19.21	36.00	36.60
PX	-9.00	-9.03	-9.00	-8.95	-18.00	-17.84
PY	-9.00	-8.97	-9.00	-9.05	-18.00	-18.16
SUMP	-18.00	-18.00	-18.00	-18.00	-36.00	-36.00
SUMR/SUMP	1.00	1.05	1.00	1.07	1.00	1.02
TW=-MW	-2.47	-5.91	37.36	33.91	21.51	15.04
MF	-.12	1.42	-3.71	-1.99	-.29	3.81
TF	.20	-.47	16.69	19.56	-.22	-1.05
TF=-ME	2.28	6.99	15.38	19.65	-21.29	-16.12
ACTUAL PX		-9.00		-9.00		-18.00
ACTUAL PY		-8.95		-9.11		-18.17



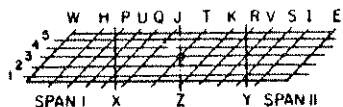
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 15B

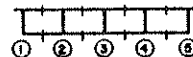
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1A+4A			2A+4A			1 TO 4A		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.035	-.055	1.57	.009	.005	.54	-.045	-.080	1.77
3H	-.029	-.044	1.52	-.004	-.013	2.91	-.045	-.077	1.70
5H	-.017	-.022	1.29	-.033	-.052	1.56	-.049	-.071	1.46
1P	-.053	-.080	1.52	.010	.002	.18	-.071	-.120	1.69
3P	-.039	-.061	1.56	-.010	-.022	2.32	-.064	-.109	1.69
1X	-.061	-.099	1.62	.015	.013	.87	-.084	-.143	1.70
2X	-.050			.002			-.075		
3X	-.038	-.060	1.57	-.012	-.025	2.08	-.067	-.114	1.70
4X	-.028			-.027			-.062		
5X	-.020	-.034	1.72	-.041	-.076	1.83	-.057	-.104	1.82
1U	-.063	-.100	1.57	.011	.007	.66	-.086	-.148	1.71
5U	-.015	-.023	1.58	-.040	-.063	1.59	-.046	-.075	1.64
3Q	-.027	-.044	1.59	-.008	-.017	2.18	-.050	-.087	1.73
5Q	-.007	-.009	1.32	-.035	-.048	1.39	-.026	-.042	1.60
1J	-.045	-.071	1.60	.022	.027	1.23	-.061	-.106	1.73
3J	-.013	-.021	1.62	-.001	-.007		-.024	-.044	1.84
5J	-.003	-.011	4.07	-.033	.006	-.18	-.010	-.019	1.78
1T	-.013	-.020	1.56	.031	.041	1.31	-.017	-.028	1.66
2T	-.004			.016			-.006		
4T	-.005			-.022			-.006		
5T	-.014	-.011	.81	-.049	-.063	1.29	-.017	-.015	.84

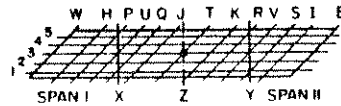


**TABLE 15C**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

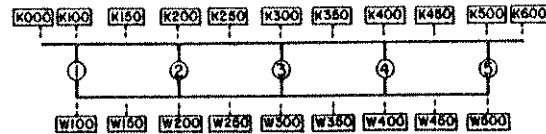
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1A+4A			2A+4A			1 TO 4A		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.003	-.008	2.89	.023	.028	1.25	-.012	-.018	1.49
3K	-.017	-.018	1.38	-.023	-.030	1.28	-.024	-.032	1.31
5K	-.048	-.065	1.35	-.086	-.118	1.37	-.062	-.084	1.34
1Q	-.007	-.010	1.44	.000	.013	1.51	-.030	-.039	1.31
3Q	-.027	-.038	1.41	-.042	-.056	1.35	-.040	-.068	1.39
1Y	-.017	-.026	1.52	-.014	-.018	1.34	-.060	-.099	1.49
2Y	-.025			-.031			-.062		
3Y	-.037	-.048	1.31	-.053	-.064	1.22	-.063	-.081	1.27
4Y	-.053			-.079			-.074		
5Y	-.064	-.093	1.44	-.101	-.142	1.40	-.084	-.110	1.42
1V	-.013	-.021	1.59	-.005	-.006	1.33	-.051	-.074	1.45
5V	-.065	-.092	1.42	-.098	-.139	1.42	-.085	-.124	1.46
3S	-.036	-.053	1.45	-.052	-.072	1.39	-.061	-.099	1.48
5S	-.053	-.073	1.39	-.080	-.108	1.35	-.069	-.099	1.44
1I	-.015	-.024	1.58	-.014	-.020	1.43	-.040	-.070	1.44
3I	-.027	-.038	1.41	-.039	-.052	1.34	-.043	-.063	1.48
5I	-.034	-.048	1.40	-.053	-.071	1.35	-.043	-.063	1.44
LOAD PX	-9.0	-9.0		-9.0	-8.9		-18.0	-17.8	
LOAD PY	-9.0	-9.0		-9.0	-9.1		-18.0	-18.2	
ACTUAL PX		-9.0			-9.0			-18.0	
ACTUAL PY		-8.9			-9.1			-18.3	

TABLE 15D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

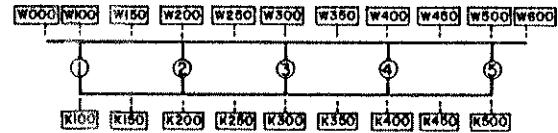
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	1A+4A			NORMALIZED POINT LOADS AT 2A+4A			1 TO 4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-23	-199	-41	-8	-50	-10	-38	-321	-65
K	K100	-31	-43	-48	-9	-10	-11	-47	-67	-75
K	K150	-25	-54	-42	-8	-20	-9	-39	-91	-64
K	K200	-25	-31	-33	-9	-6	-7	-41	-46	-51
K	K250	-25	-27	-28	-8	-6	-6	-39	-44	-45
K	K300	-26	-30	-25	-8	-16	-7	-41	-54	-43
K	K350	-22	-19	-22	-12	-8	-10	-40	-34	-40
K	K400	-19	-22	-18	-17	-24	-14	-42	-53	-39
K	K450	-18	-14	-15	-16	-18	-19	-40	-36	-41
K	K500	-20	-14	-13	-23	-21	-21	-50	-42	-39
K	K600	-18	-8	-8	-18	-14	-14	-42	-21	-21
W	W100	76	129	122	23	38	37	115	191	179
W	W150	82	80	72	24	31	37	125	127	117
W	W200	91	99	101	31	27	30	144	154	160
W	W250	91	-36	75	30	53	47	144	-7	129
W	W300	98	101	99	33	61	60	154	184	178
W	W350	82	56	54	46	45	47	151	116	113
W	W400	73	59	60	66	54	52	162	135	139
W	W450	61	51	50	63	60	63	144	122	115
W	W500	54	24	24	77	29	34	144	64	58
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-8.9		-18.0	-17.8	
LOAD	PY (KIPS)	-9.0	-9.0		-9.0	-9.1		-18.0	-18.2	
ACTUAL	PX (KIPS)					-9.0			-18.0	
ACTUAL	PY (KIPS)					-8.9			-18.3	

**TABLE 15E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

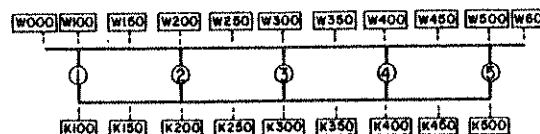
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A+4A			2A+4A			1 TO 4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	40	42	66	36	27	32	67	86	92
W	W100	40	66	65	36	32	32	67	92	91
W	W150	40	43	44	36	23	24	70	69	69
W	W200	51	54	54	45	36	36	92	87	88
W	W250	46	44	42	43	43	40	83	87	84
W	W300	40	56	54	51	50	45	89	108	98
W	W350	54	50	56	54	48	53	98	94	102
W	W400	57	70	68	57	72	72	101	124	122
W	W450	58	47	43	58	62	56	102	104	93
W	W500	76	54	54	76	68	67	131	105	104
W	W600	76	49	42	76	61	61	131	93	93
K	K100	-18	-33	-33	-15	-22	-22	-29	-45	-45
K	K150	-19	-48	-45	-16	-62	-51	-33	-103	-92
K	K200	-21	-28	-31	-19	-23	-26	-38	-47	-53
K	K250	-23	-29	-25	-21	-31	-25	-42	-55	-47
K	K300	-29	-26	-28	-31	-35	-34	-52	-61	-61
K	K350	-32	-33	-32	-32	-28	-34	-57	-55	-62
K	K400	-33	-32	-31	-34	-37	-28	-62	-65	-55
K	K450	-33	-29	-22	-33	-33	-36	-58	-61	-65
K	K500	-37	-34	-34	-38	-34	-33	-64	-61	-60
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-8.9		-18.0	-17.8	
LOAD	PY (KIPS)	-9.0	-9.0		-9.0	-9.1		-18.0	-18.2	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		-8.9			-9.1			-18.3	

TABLE 15F

SUMMARY OF STRAINS (MICRE IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

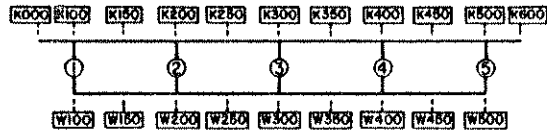
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A+4A			2A+4A			1 TO 4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	72	49	49	57	23	23	134	66	66
W	W100	72	41	40	57	27	26	134	89	88
W	W150	55	54	52	45	41	39	104	115	108
W	W200	54	50	52	44	43	44	102	123	125
W	W250	52	49	47	42	42	41	97	101	106
W	W300	48	59	58	36	50	49	87	104	104
W	W350	38	32	38	32	29	34	67	65	73
W	W400	53	50	49	46	45	44	88	84	82
W	W450	42	60	65	33	51	55	66	88	96
W	W500	42	44	45	30	36	37	62	59	61
W	W600	42	66	66	30	52	52	62	83	83
K	K100	-35	-52	-53	-27	-40	-40	-66	-88	-88
K	K150	-31	-54	-48	-25	-38	-36	-59	-88	-89
K	K200	-31	-37	-42	-25	-31	-33	-60	-73	-70
K	K250	-30	-33	-33	-25	-29	-30	-57	-59	-64
K	K300	-28	-35	-23	-20	-34	-25	-52	-76	-63
K	K350	-23	-15	-18	-20	-17	-21	-41	-49	-54
K	K400	-22	-29	-19	-19	-25	-19	-37	-45	-42
K	K450	-20	-22	-24	-16	-19	-20	-31	-38	-39
K	K500	-19	-27	-27	-14	-20	-20	-27	-36	-36
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-8.9		-18.0	-17.8	
LOAD	PY (KIPS)	-9.0	-9.0		-9.0	-9.1		-18.0	-18.2	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		-8.9			-9.1			-18.3	

**TABLE 15G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

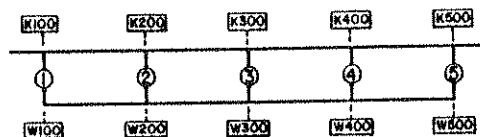
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A+4A			2A+4A			1 TO 4A		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
K	K000	-14	-10	-10	-20	-15	-15	-38	-30	-30
K	K100	-17	-13	-13	-24	-18	-18	-46	-35	-35
K	K150	-15	-13	-15	-21	-20	-21	-37	-31	-36
K	K200	-17	-19	-19	-22	-26	-26	-39	-39	-39
K	K250	-18	-16	-17	-24	-24	-25	-36	-32	-34
K	K300	-21	-21	-21	-27	-26	-26	-37	-35	-35
K	K350	-23	-18	-19	-29	-24	-25	-37	-28	-29
K	K400	-27	-27	-27	-33	-34	-33	-40	-37	-37
K	K450	-27	-28	-33	-33	-33	-40	-38	-39	-46
K	K500	-35	-32	-33	-41	-36	-38	-48	-42	-43
K	K600	-28	-37	-37	-34	-44	-44	-39	-48	-48
W	W100	44	56	59	62	77	78	130	179	182
W	W150	51	43	41	71	52	57	132	110	108
W	W200	63	69	66	85	79	79	149	161	158
W	W250	69	60	60	91	77	74	139	115	120
W	W300	79	0	67	102	0	81	141	0	120
W	W350	85	58	61	107	70	80	135	93	98
W	W400	97	59	59	118	130	128	141	98	98
W	W450	89	56	95	107	69	79	123	88	109
W	W500	90	81	81	106	96	101	119	113	119
LOAD	PX (KIPS)	-9.0	-9.0		-9.0	-8.9		-18.0	-17.8	
LOAD	PY (KIPS)	-9.0	-9.0		-9.0	-9.1		-18.0	-18.2	
ACTUAL	PX (KIPS)		-9.0			-9.0			-18.0	
ACTUAL	PY (KIPS)		-8.9			-9.1			-18.3	

TABLE 15H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



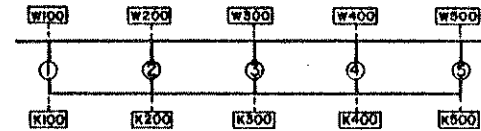
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		1A+4A			2A+4A			1 TO 4A		
GAGE TYPE	GAGE LOC.	*****			*****			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-9	-6		5	0		-10	-11	
K	K200	-11	-12		4	-1		-13	-10	
K	K300	-14	-13		2	0		-18	-18	
K	K400	-15	-19		-3	-4		-25	-31	
K	K500	-19	-14		-18	-15		-45	-34	
W	W100	11	8		-7	3		11	17	
W	W200	14	41		-5	21		17	71	
W	W300	17	47		-1	-7		23	55	
W	W400	18	36		4	45		31	88	
W	W500	20	53		23	97		52	164	
SECTION F										
K	K100	-24	-21		-2	-5		-34	-33	
K	K200	-28	-31		-5	-10		-39	-49	
K	K400	-19	-25		-13	-20		-30	-54	
K	K500	-14	-11		-14	-15		-34	-33	
W	W100	27	48		2	21		37	78	
W	W200	35	68		6	18		49	105	
W	W400	23	57		17	82		47	157	
W	W500	15	63		16	122		38	199	

**TABLE 15I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSE COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,E,G



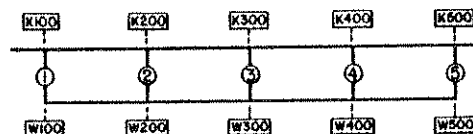
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A+4A			2A+4A			1 TO 4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-14	-7		-1	1		-20	-10	
W	W200	-1	1		3	6		-1	0	
W	W300	7	40		8	32		12	58	
W	W400	14	37		15	37		24	67	
W	W500	21	47		21	53		36	95	
K	K100	16	68		1	-4		22	79	
K	K200	1	-1		-4	-7		1	-1	
K	K300	-9	-16		-10	-11		-14	-19	
K	K400	-17	-14		-18	-20		-29	-31	
K	K500	-22	-28		-22	-24		-38	-47	
SECTION K										
W	W100	19	32		14	20		37	70	
W	W200	17	25		7	17		23	51	
W	W300	6	22		2	11		9	28	
W	W400	-1	2		-6	-10		-3	2	
W	W500	-19	-16		-25	-21		-26	-20	
K	K100	-19	-23		-14	-21		-39	-51	
K	K200	-15	-20		-8	-14		-27	-32	
K	K300	-7	-10		-2	-5		-11	-15	
K	K400	2	-6		7	0		3	-7	
K	K500	23	31		29	40		20	35	

TABLE 15J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1A+4A			2A+4A			1 TO 4A		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-12	-11		-18	-18		-41	-43	
K	K200	-15	-16		-21	-22		-40	-41	
K	K400	-22	-20		-28	-27		-33	-30	
K	K500	-22	-15		-29	-19		-32	-24	
W	W100	11	32		18	39		47	114	
W	W200	18	42		25	43		49	105	
W	W400	28	107		36	137		42	147	
W	W500	24	136		32	179		35	170	
SECTION I										
K	K100	-17	-11		-25	-16		-37	-19	
K	K200	-14	-16		-21	-22		-23	-23	
K	K300	-13	-13		-20	-20		-17	-14	
K	K400	-10	-9		-16	-14		-11	-10	
K	K500	-7	-6		-13	-9		-8	-8	
W	W100	18	28		26	33		40	65	
W	W200	17	46		26	62		28	74	
W	W300	16	39		24	55		22	70	
W	W400	13	31		20	52		15	39	
W	W500	9	10		17	17		10	13	



**TABLE 15K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1A+4A				NORMALIZED POINT LOADS AT 2A+4A				1 TO 4A			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	8.8	21.9	8.1	21.7	2.9	13.4	3.2	13.0	13.6	19.0	12.2	17.0
A	2	9.0	22.5	9.8	26.4	3.2	15.0	4.2	16.9	14.4	20.1	15.9	23.4
A	3	9.1	22.7	9.2	24.8	3.4	15.9	6.3	25.4	14.6	20.3	17.1	25.0
A	4	7.1	17.7	6.9	18.7	5.7	26.3	6.8	27.5	14.8	20.6	15.7	23.0
A	5	6.1	15.2	3.1	8.4	6.3	29.3	4.2	17.2	14.4	20.0	7.2	10.6
A	SUM	40.1		37.2		21.5		24.7		71.8		68.2	
D	1	5.2	13.8	4.9	13.9	7.2	14.9	6.6	15.0	13.2	19.5	14.4	21.6
D	2	6.1	16.1	7.5	21.1	8.1	16.9	9.3	20.9	13.6	20.1	17.4	26.2
D	3	7.5	19.7	7.6	21.6	9.6	19.9	9.4	21.1	13.3	19.6	13.6	20.5
D	4	9.3	24.6	7.4	20.9	11.4	23.7	11.4	25.6	13.9	20.5	10.9	16.4
D	5	9.8	25.8	8.0	22.5	11.8	24.5	7.7	17.4	13.7	20.2	10.2	15.3
D	SUM	37.9		35.5		48.0		44.4		67.8		66.5	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	6.7	16.8	15.0	32.9	2.0	9.4	3.4	17.6	10.2	14.1	23.6	29.0
A	2	10.8	26.9	11.7	25.5	3.6	16.5	2.4	12.5	16.9	23.5	18.1	22.2
A	3	10.2	25.5	8.7	18.0	3.9	17.9	2.5	12.8	16.5	23.0	14.6	18.0
A	4	8.0	20.1	6.3	13.9	6.8	31.6	5.1	26.0	17.3	24.1	13.7	16.9
A	5	4.3	10.7	4.0	8.8	5.3	24.6	6.1	31.1	11.0	15.3	11.4	14.0
A	SUM	49.0		45.7		21.6		19.5		71.8		81.4	
D	1	3.5	9.2	4.8	10.6	4.9	10.2	6.9	12.0	10.0	14.7	12.7	16.9
D	2	6.8	18.0	7.2	15.9	9.2	19.2	10.1	17.8	15.9	23.5	15.0	20.0
D	3	8.6	22.6	7.9	17.6	11.0	22.9	10.3	18.3	15.2	22.4	13.5	18.0
D	4	11.3	29.8	11.3	25.2	13.7	28.6	13.3	23.6	16.4	24.2	15.9	21.0
D	5	7.8	20.4	13.8	30.6	9.1	19.0	16.0	28.3	10.3	15.2	18.1	24.1
D	SUM	37.9		44.9		48.0		56.4		67.8		75.2	
LOAD	PX (KIPS)	-9.0		-9.0		-9.0		-8.9		-18.0		-17.8	
LOAD	PY (KIPS)	-9.0		-9.0		-9.0		-9.1		-18.0		-18.2	
ACTUAL	PX (KIPS)			-9.0				-9.0				-18.0	
ACTUAL	PY (KIPS)			-8.9				-9.1				-18.3	

TABLE 15L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



KIP = 4.448 kN  
FT = 0.305 m

FT-KIP = 1.356 kN-m  
KIP-FT = 4.448 kN-m/m

SECTION	GIRDER	1A+4A				NORMALIZED POINT LOADS AT 2A+4A				1 TO 4A			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	7.6	19.0	11.6	28.1	2.4	11.1	3.3	15.1	11.7	16.3	18.1	24.2
A	2	10.0	25.0	10.7	25.9	3.4	15.9	3.3	14.9	15.8	22.0	17.0	22.7
A	3	9.7	24.2	8.9	21.5	3.7	17.0	4.3	19.5	15.7	21.8	15.7	21.0
A	4	7.6	19.0	6.6	15.9	6.3	29.3	5.9	26.8	16.2	22.6	14.6	19.5
A	5	5.1	12.7	3.6	8.7	5.7	26.6	5.2	23.7	12.5	17.3	9.4	12.5
A	SUM	40.1		41.4		21.5		21.8		71.8		74.7	
D	1	4.3	11.2	4.8	12.2	5.9	12.3	6.7	13.4	11.4	16.8	13.6	19.3
D	2	6.5	17.1	7.3	18.4	8.8	18.2	9.7	19.3	14.9	22.0	16.3	23.1
D	3	8.1	21.3	7.8	19.5	10.4	21.6	9.8	19.6	14.4	21.2	13.6	19.3
D	4	10.4	27.5	9.2	23.2	12.7	26.5	12.3	24.6	15.3	22.6	13.2	18.7
D	5	8.7	22.8	10.7	26.8	10.3	21.4	11.6	23.1	11.8	17.4	13.9	19.7
D	SUM	37.9		39.9		48.0		50.0		67.8		70.5	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	7.6	19.0	9.9	26.3	2.4	11.2	3.1	13.6	11.7	16.3	15.5	22.4
A	2	10.0	25.0	9.7	25.7	3.4	15.9	3.5	15.4	15.8	22.0	15.5	22.3
A	3	9.7	24.2	8.4	22.2	3.7	17.1	5.1	22.8	15.6	21.8	15.1	21.8
A	4	7.6	19.0	6.3	16.7	6.3	29.4	5.9	26.1	16.2	22.6	14.1	20.3
A	5	5.1	12.7	3.4	9.1	5.7	26.6	4.9	22.0	12.4	17.3	9.0	13.1
A	SUM	40.0		37.7		21.5		22.4		71.7		69.3	
D	1	4.3	11.3	4.8	12.6	5.9	12.3	6.6	13.9	11.4	16.8	13.8	20.2
D	2	6.5	17.1	7.3	19.1	8.7	18.2	9.4	19.9	14.9	22.0	16.6	24.3
D	3	8.1	21.3	7.6	20.0	10.3	21.6	9.5	20.1	14.3	21.2	13.4	19.6
D	4	10.4	27.5	8.7	22.8	12.7	26.5	11.6	24.7	15.3	22.6	12.2	17.9
D	5	8.6	22.7	9.7	25.5	10.2	21.4	10.1	21.4	11.8	17.4	12.3	18.1
D	SUM	37.9		38.1		47.9		47.0		67.7		68.3	
LOAD	PX (KIPS)	-9.0		-9.0		-9.0		-8.9		-18.0		-17.8	
LOAD	PY (KIPS)	-9.0		-9.0		-9.0		-9.1		-18.0		-18.2	
ACTUAL	PX (KIPS)			-9.0				-9.0				-18.0	
ACTUAL	PY (KIPS)			-8.9				-9.1				-18.3	

15L

TABLE 16A

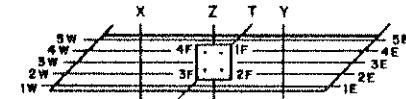
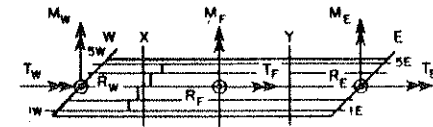
SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR TRUCK LOADS APPLIED  
 AFTER 30 KSI COND. LOADING  
 SIMPLY SUPPORTED, NO RESTRAINTS.

NORMALIZED POINT LOADS AT

REACTION OR LOAD	1R+2R+3R *****		4R+5R+6R *****		1 TO 6R *****	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	.57	.02	4.16	3.72	4.73	3.51
2E	-.34	-.37	3.15	3.38	2.01	3.05
3E	-.71	-.70	2.26	1.50	1.55	1.19
4E	-.73	-.96	1.33	1.75	.60	1.19
5E	-.57	-.23	.30	.55	-.28	.10
1F	-2.70	-2.87	11.42	11.96	8.63	8.18
2F	3.41	2.70	5.35	5.94	8.76	7.93
3F	11.22	12.71	-2.60	-2.53	8.62	9.96
4F	5.02	6.45	3.47	2.68	8.49	9.09
1W	.35	.63	-.56	-.79	-.21	.30
2W	1.44	.93	-.71	-.19	.73	.48
3W	2.43	3.26	-.70	-.91	1.73	2.47
4W	3.35	3.17	-.36	-.44	2.99	2.75
5W	4.35	3.45	.50	-.07	4.85	3.36
RF	-1.77	-1.84	11.19	10.99	9.42	9.13
RE	16.85	18.68	17.64	18.05	34.50	35.06
RW	11.92	11.44	-1.83	-1.99	10.99	9.36
SUMR	27.00	28.28	27.00	27.05	54.00	53.55
DX	-27.00	-27.00	0.	0.	-27.00	-27.06
DY	0.	0.	-27.00	-27.00	-27.00	-26.94
SUMP	-27.00	-27.00	-27.00	-27.00	-54.00	-54.00
SUMR/SUMP	1.00	1.05	1.00	1.00	1.00	.99
TF=-MW	6.35	20.26	25.49	.95	31.94	21.57
MF	23.44	29.46	-23.86	-26.62	-.42	4.56
TF	-18.60	-17.28	18.20	16.84	-.40	-.78
TE=-ME	-24.55	-2.80	-6.90	-20.49	-31.44	-21.86
ACTUAL DX		-27.00		0.		-27.00
ACTUAL DY		0.		-27.00		-26.94



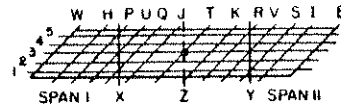
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 16B**

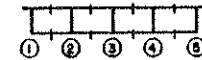
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



**SPAN I**

**NORMALIZED POINT LOADS AT**

DEFLECTION AT POINT	1B+2R+3R *****			4B+5R+6R *****			1 TO 6R *****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.110	-.172	1.57	.043	.052	1.22	-.067	-.116	1.74
3H	-.136	-.170	1.60	.037	.048	1.31	-.069	-.116	1.67
5H	-.095	-.142	1.50	.024	.035	1.42	-.070	-.099	1.40
1P	-.172	-.270	1.57	.067	.076	1.14	-.105	-.180	1.71
3P	-.153	-.244	1.59	.054	.070	1.29	-.099	-.166	1.67
1X	-.218	-.327	1.50	.095	.111	1.17	-.123	-.207	1.69
2X	-.192			.079			-.113		
3X	-.166	-.264	1.60	.063	.083	1.32	-.103	-.174	1.69
4X	-.140			.047			-.093		
5X	-.115	-.199	1.73	.032	.055	1.72	-.083	-.146	1.76
1U	-.213	-.330	1.55	.085	.103	1.22	-.128	-.217	1.69
5U	-.096	-.167	1.74	.029	.053	1.83	-.067	-.113	1.69
3O	-.138	-.217	1.57	.062	.079	1.28	-.077	-.133	1.74
5O	-.050	-.095	1.92	.012	.032	2.69	-.038	-.061	1.63
1J	-.184	-.260	1.42	.095	.111	1.17	-.089	-.144	1.62
3J	-.085	-.128	1.52	.048	.062	1.30	-.037	-.066	1.78
5J	.005	-.004	-.77	-.019	-.003	.17	-.015	-.010	.68
1T	-.094	-.113	1.20	.069	.074	1.07	-.025	-.041	1.64
2T	-.044			.036			-.008		
4T	.036			-.044			-.009		
5T	.069	.081	1.17	-.094	-.112	1.19	-.025	-.026	1.05

**TABLE 16C**

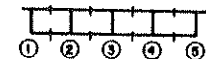
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

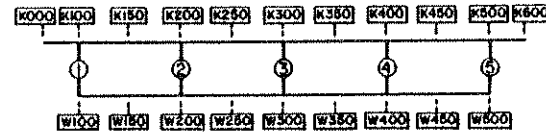
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	19+29+39			43+53+63			1 TO 63		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.020	-.009	.39	.003	-.018	-6.30	-.017	-.024	1.41
3K	.047	.065	1.39	-.006	-.119	1.38	-.039	-.055	1.42
5K	.095	.124	1.31	-.184	-.242	1.31	-.090	-.127	1.42
1P	.011	.035	3.27	-.053	-.094	1.79	-.042	-.058	1.39
3P	.061	.090	1.31	-.139	-.200	1.44	-.079	-.117	1.49
1Y	.031	.051	1.68	-.115	-.190	1.65	-.085	-.130	1.54
2Y	.046			-.140			-.094		
3Y	.062	.076	1.22	-.164	-.218	1.33	-.102	-.137	1.35
4Y	.078			-.191			-.112		
5Y	.095	.117	1.23	-.216	-.300	1.39	-.121	-.179	1.49
1V	.027	.053	1.95	-.099	-.162	1.64	-.072	-.107	1.49
5V	.085	.103	1.21	-.208	-.300	1.44	-.123	-.188	1.53
3S	.053	.070	1.31	-.149	-.224	1.50	-.096	-.150	1.56
5S	.067	.078	1.17	-.167	-.242	1.45	-.100	-.158	1.57
1I	.024	.036	1.54	-.093	-.146	1.57	-.069	-.104	1.50
3I	.037	.048	1.32	-.103	-.154	1.50	-.066	-.102	1.53
5I	.043	.052	1.22	-.106	-.152	1.43	-.064	-.100	1.57
LOAD PX	-27.0	-27.0		0.	0.		-27.0	-27.1	
LOAD PY	0.	0.		-27.0	-27.0		-27.0	-26.9	
ACTUAL PX		-27.0			0.			-27.0	
ACTUAL PY		0.			-27.0			-26.9	

TABLE 16D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KST COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

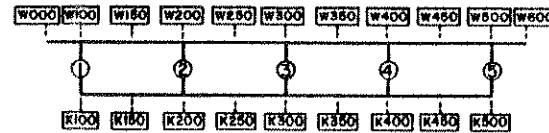
1 KIP = 4.448 kN  
1 IN = 25.4 mm

		NORMALIZED POINT LOADS AT								
		1B+2B+3B			4B+5B+6B			1 TO 6B		
GAGE TYPE	GAGE LOC.	*****			*****			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-79	-658	-136	19	110	28	-60	-497	-99
K	K100	-96	-142	-161	22	29	33	-73	-103	-116
K	K150	-80	-180	-125	19	40	27	-60	-139	-95
K	K200	-83	-86	-98	19	19	22	-63	-67	-77
K	K250	-81	-96	-94	19	20	20	-61	-75	-74
K	K300	-84	-113	-95	19	22	19	-64	-89	-73
K	K350	-81	-74	-87	19	16	18	-61	-57	-67
K	K400	-83	-99	-74	20	19	16	-63	-79	-58
K	K450	-79	-64	-72	20	15	16	-59	-50	-56
K	K500	-94	-75	-70	23	15	14	-70	-57	-53
K	K600	-78	-26	-26	20	6	6	-57	-25	-25
W	W100	233	351	331	-51	-60	-57	181	275	258
W	W150	251	241	228	-59	-45	-42	191	185	174
W	W200	291	295	306	-69	-46	-48	222	229	239
W	W250	294	121	252	-72	-31	-47	221	47	195
W	W300	317	365	356	-76	-58	-56	240	290	282
W	W350	308	232	227	-77	-41	-40	230	173	172
W	W400	319	285	287	-77	-47	-48	241	208	212
W	W450	276	246	238	-69	-49	-46	207	182	173
W	W500	261	137	135	-63	-36	-33	198	94	88
LOAD	PX (KIPS)	-27.0	-27.0		0.	0.		-27.0	-27.1	
LOAD	PY (KIPS)	0.	0.		-27.0	-27.0		-27.0	-26.9	
ACTUAL	PX (KIPS)		-27.0			0.			-27.0	
ACTUAL	PY (KIPS)		0.			-27.0			-26.9	

**TABLE 16E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

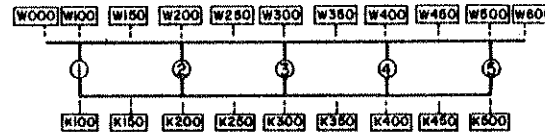
TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1R+2B+3R			4R+5R+6R			1 TO 6R		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-19	64	43	116	63	99	97	124	134
W	W100	-19	43	43	116	99	99	97	134	133
W	W150	4	41	43	99	64	64	107	190	107
W	W200	37	67	67	102	71	71	139	134	134
W	W250	49	76	72	78	64	61	127	136	130
W	W300	71	114	94	65	60	59	136	171	151
W	W350	69	88	97	79	59	63	149	143	155
W	W400	71	99	97	80	96	95	152	185	182
W	W450	76	85	76	75	74	67	152	157	142
W	W500	106	86	85	84	74	74	191	155	155
W	W600	106	73	73	84	64	64	191	136	136
K	K100	3	-20	-20	-46	-47	-48	-42	-59	-59
K	K150	-3	-55	-53	-44	-120	-97	-48	-145	-131
K	K200	-15	-33	-35	-43	-44	-53	-58	-69	-77
K	K250	-23	-43	-41	-40	-50	-38	-64	-84	-73
K	K300	-39	-61	-56	-41	-42	-44	-80	-94	-94
K	K350	-49	-49	-57	-47	-39	-44	-87	-93	-94
K	K400	-42	-57	-48	-47	-49	-40	-90	-96	-82
K	K450	-44	-51	-54	-42	-45	-48	-87	-93	-99
K	K500	-52	-49	-49	-41	-46	-45	-93	-88	-87
LOAD	PX (KIPS)	-27.0	-27.0		0.	0.		-27.0	-27.1	
LOAD	PY (KIPS)	0.	0.		-27.0	-27.0		-27.0	-26.9	
ACTUAL	PX (KIPS)		-27.0			0.			-27.0	
ACTUAL	PY (KIPS)		0.			-27.0			-26.9	

TABLE 16F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

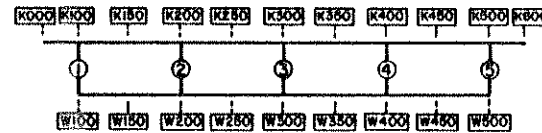
		NORMALIZED POINT LOADS AT								
		1B+2B+3B			4B+5B+6B			1 TO 6B		
GAGE TYPE	GAGE LOC.	*****			*****			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	84	32	65	109	69	69	194	96	96
W	W100	84	65	64	109	66	65	194	130	129
W	W150	74	91	86	78	82	78	153	167	159
W	W200	79	91	94	73	99	100	152	183	187
W	W250	77	67	71	71	95	98	148	155	160
W	W300	64	75	74	72	96	97	136	164	164
W	W350	63	55	61	40	50	56	103	102	112
W	W400	99	71	69	35	67	65	134	132	129
W	W450	96	93	99	0	44	51	97	131	140
W	W500	113	71	72	-25	21	22	88	86	88
W	W600	113	111	71	-25	22	22	88	121	121
K	K100	-41	-74	-74	-53	-66	-66	-95	-123	-123
K	K150	-42	-75	-78	-45	-62	-61	-87	-129	-130
K	K200	-46	-57	-53	-43	-58	-59	-90	-105	-101
K	K250	-46	-47	-51	-41	-50	-54	-87	-91	-99
K	K300	-40	-60	-57	-40	-74	-47	-80	-120	-102
K	K350	-39	-56	-55	-23	-32	-38	-63	-81	-88
K	K400	-42	-45	-46	-14	-30	-26	-56	-67	-64
K	K450	-43	-50	-49	-2	-13	-13	-45	-54	-55
K	K500	-44	-48	-48	6	-8	-8	-38	-47	-47
LOAD	PX (KIPS)	-27.0	-27.0		0.	0.		-27.0	-27.1	
LOAD	PY (KIPS)	0.	0.		-27.0	-27.0		-27.0	-26.9	
ACTUAL	PX (KIPS)		-27.0			0.			-27.0	
ACTUAL	PY (KIPS)		0.			-27.0			-26.9	



**TABLE 16G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

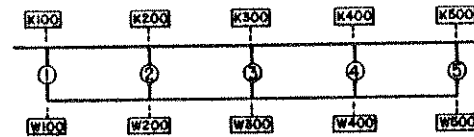
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1B+2B+3B			NORMALIZED POINT LOADS AT 4B+5B+6B			1 TO 6B		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	20	14	14	-74	-55	-55	-54	-42	-42
K	K100	23	16	16	-90	-66	-66	-67	-50	-50
K	K150	19	16	17	-75	-63	-72	-55	-47	-54
K	K200	19	20	20	-79	-84	-84	-59	-63	-63
K	K250	19	18	19	-77	-69	-73	-57	-50	-53
K	K300	19	17	17	-80	-74	-75	-60	-57	-58
K	K350	19	15	16	-77	-59	-62	-58	-44	-46
K	K400	19	18	18	-80	-73	-74	-61	-55	-56
K	K450	19	19	22	-77	-76	-90	-57	-57	-67
K	K500	22	20	20	-92	-92	-84	-69	-61	-62
K	K600	19	23	23	-76	-98	-98	-55	-70	-70
W	W100	-62	-60	-60	249	340	340	196	252	255
W	W150	-68	-45	-47	263	215	217	194	163	162
W	W200	-76	-55	-56	303	304	303	226	240	237
W	W250	-75	-54	-53	292	240	248	216	195	190
W	W300	-75	0	-49	301	0	255	226	0	194
W	W350	-71	-38	-43	282	197	216	210	146	157
W	W400	-68	-63	-62	282	273	269	213	165	165
W	W450	-59	-34	-38	241	189	215	181	140	168
W	W500	-52	-42	-45	223	229	243	171	168	177
LOAD	PX (KIPS)	-27.0	-27.0		0.	0.		-27.0	-27.1	
LOAD	PY (KIPS)	0.	0.		-27.0	-27.0		-27.0	-26.9	
ACTUAL	PX (KIPS)		-27.0			0.			-27.0	
ACTUAL	PY (KIPS)		0.			-27.0			-26.9	

TABLE 16H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.  
LOADING SHOWN IN TABLES D,E,F,G



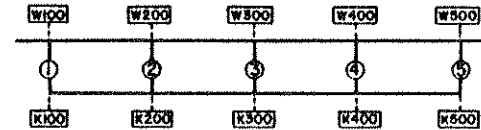
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT									
		1B+2B+3B			4B+5B+6B			1 TO 6B			
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	
SECTION H											
K	K100	-23	-20		8	5		-15	-15		
K	K200	-29	-35		9	8		-19	-26		
K	K300	-40	-34		12	8		-28	-25		
K	K400	-53	-60		14	13		-38	-46		
K	K500	-83	-60		20	13		-63	-47		
W	W100	28	34		-10	-5		17	28		
W	W200	38	136		-12	-20		26	107		
W	W300	50	100		-14	-20		35	72		
W	W400	65	152		-17	-27		47	122		
W	W500	93	268		-21	-43		71	219		
SECTION F											
K	K100	-69	-63		17	14		-52	-48		
K	K200	-76	-94		17	19		-59	-72		
K	K400	-87	-111		23	28		-60	-81		
K	K500	-85	-74		31	23		-54	-50		
W	W100	76	157		-18	-27		57	123		
W	W200	95	199		-21	-32		73	153		
W	W400	103	275		-29	-42		74	221		
W	W500	95	334		-33	-47		61	270		

**TABLE 161**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.  
LOADING SHOWN IN TABLES D,E,F,G



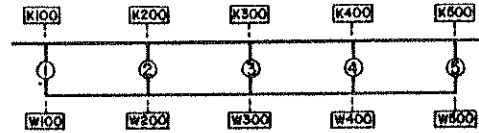
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1R+2R+3R			4R+5R+6R			1 TO 6R		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-61	-34		32	22		-28	-14	
W	W200	-33	-36		30	48		-2	2	
W	W300	-13	6		31	95		18	93	
W	W400	4	31		32	79		37	106	
W	W500	17	62		37	95		55	148	
K	K100	65	192		-34	-84		31	106	
K	K200	40	30		-38	-40		2	-4	
K	K300	16	2		-39	-39		-22	-31	
K	K400	-3	-11		-40	-40		-43	-46	
K	K500	-18	-28		-39	-47		-58	-69	
SECTION K										
W	W100	37	69		17	-40		54	107	
W	W200	32	65		3	22		35	93	
W	W300	30	66		-15	-10		15	44	
W	W400	30	103		-35	-80		-5	2	
W	W500	32	58		-68	-74		-36	-25	
K	K100	-39	-47		-18	-30		-57	-73	
K	K200	-39	-44		-2	-10		-42	-48	
K	K300	-38	-43		19	0		-18	-28	
K	K400	-37	-42		43	28		6	-9	
K	K500	-33	-51		74	90		40	51	

**TABLE 16J**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.  
LOADING SHOWN IN TABLES D, E, F, G



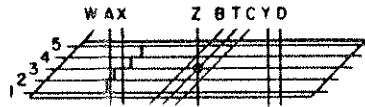
TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1B+2B+3B			4B+5B+6B			I TO 6B		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	29	29		-88	-95		-58	-61	
K	K200	22	23		-83	-89		-61	-63	
K	K400	16	15		-67	-61		-50	-46	
K	K500	16	12		-65	-50		-48	-38	
W	W100	-31	-61		99	235		67	162	
W	W200	-28	-43		103	234		75	169	
W	W400	-21	-67		85	315		63	231	
W	W500	-18	-63		71	308		53	235	
SECTION I										
K	K100	20	11		-75	-40		-54	-30	
K	K200	14	12		-49	-47		-35	-35	
K	K300	12	8		-37	-27		-25	-20	
K	K400	9	7		-27	-20		-17	-15	
K	K500	8	5		-22	-17		-13	-12	
W	W100	-22	-23		82	127		60	96	
W	W200	-17	-32		61	160		43	117	
W	W300	-14	-23		46	132		32	100	
W	W400	-12	-22		35	85		23	57	
W	W500	-10	-8		26	36		15	24	

**TABLE 16K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1A+2B+3B				NORMALIZED POINT LOADS AT 4B+5B+6B				1 TO 6B			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	27.6	19.3	22.8	16.8	-6.6	19.1	-4.0	16.7	21.0	19.4	17.7	17.3
A	2	29.1	20.4	30.8	22.7	-6.9	20.0	-5.2	21.8	22.2	20.5	23.8	23.1
A	3	29.7	20.8	33.8	25.0	-7.0	20.3	-5.6	23.6	22.6	20.9	26.5	25.7
A	4	29.2	20.5	32.3	23.8	-7.1	20.5	-5.6	23.6	22.1	20.5	23.9	23.2
A	5	27.2	19.0	15.8	11.6	-6.9	20.1	-3.4	14.2	20.2	18.7	11.0	10.7
A	SUM	142.8		135.5		-34.6		-23.9		108.2		102.8	
D	1	-6.9	20.0	-5.3	19.6	26.0	19.0	27.6	20.1	19.1	18.7	20.6	20.2
D	2	-7.0	20.3	-6.8	25.2	27.7	20.3	34.3	25.0	20.8	20.3	26.4	25.9
D	3	-6.9	20.2	-5.8	21.5	28.1	20.6	28.9	21.0	21.2	20.8	21.9	21.4
D	4	-6.9	20.1	-5.6	20.7	28.1	20.6	26.5	19.3	21.2	20.8	17.8	17.4
D	5	-6.6	19.4	-3.5	13.0	26.5	19.4	20.1	14.7	19.8	19.4	15.4	15.1
D	SUM	-34.3		-26.9		136.4		137.4		102.1		102.1	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	20.4	14.4	49.9	30.6	-4.6	13.4	-10.4	29.8	15.8	14.7	36.2	29.1
A	2	34.0	23.9	35.3	21.7	-8.2	23.7	-7.8	22.2	25.9	24.0	27.4	22.0
A	3	33.7	23.7	32.2	19.7	-8.3	24.1	-6.7	19.2	25.4	23.6	24.0	20.0
A	4	34.0	23.9	26.4	16.2	-8.4	24.5	-5.9	17.0	25.6	23.7	20.8	16.7
A	5	20.2	14.2	19.2	11.8	-4.9	14.3	-4.1	11.7	15.3	14.1	15.2	12.2
A	SUM	142.4		163.0		-34.4		-34.9		108.0		124.5	
D	1	-4.9	14.3	-6.1	16.3	19.2	14.1	24.1	16.0	14.3	14.1	18.2	16.1
D	2	-8.3	24.3	-8.0	21.2	32.3	23.7	31.7	21.1	24.0	23.6	23.5	20.8
D	3	-9.2	24.0	-7.1	18.9	32.1	23.6	29.6	19.0	24.0	23.5	21.6	19.2
D	4	-8.1	23.9	-7.6	20.3	32.9	24.2	30.6	20.3	24.8	24.3	23.4	20.7
D	5	-4.6	13.6	-8.7	23.3	19.6	14.4	35.4	23.5	14.9	14.6	26.1	23.2
D	SUM	-34.1		-37.5		136.1		150.4		102.1		112.9	
LOAD	PX (KIPS)	-27.0		-27.0		0.		0.		-27.0		-27.1	
LOAD	PY (KIPS)	0.		0.		-27.0		-27.0		-27.0		-26.9	
ACTUAL	PX (KIPS)			-27.0				0.				-27.0	
ACTUAL	PY (KIPS)			0.				-27.0				-26.9	

TABLE 16L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR TRUCK LOADS APPLIED  
AFTER 30 KSI COND. LOADING  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1B+2B+3B				NORMALIZED POINT LOADS AT 4B+5B+6B				1 TO 6B			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT		
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	23.6	16.5	36.7	24.6	-5.5	15.9	-7.3	24.8	18.1	16.7	27.2	24.0
A	2	31.9	22.4	33.0	22.1	-7.6	22.1	-6.5	22.1	24.2	22.4	25.5	22.5
A	3	32.0	22.4	32.8	22.0	-7.7	22.4	-6.2	20.0	24.2	22.4	25.5	22.4
A	4	31.9	22.4	29.1	19.5	-7.8	22.7	-5.8	19.5	24.1	22.3	22.2	19.5
A	5	23.7	16.3	17.5	11.7	-5.8	16.8	-7.7	12.7	17.4	16.1	13.1	11.6
A	SUM	142.6		149.1		-34.5		-29.5		108.1		113.6	
D	1	-5.7	16.8	-5.6	17.7	22.2	16.3	25.9	18.1	16.4	16.1	19.5	18.2
D	2	-7.7	22.5	-7.3	23.0	30.3	22.2	33.1	23.1	22.6	22.1	25.1	23.4
D	3	-7.6	22.3	-6.4	20.0	30.4	22.3	28.8	20.1	22.7	22.3	21.7	20.3
D	4	-7.6	22.2	-6.5	20.5	30.8	22.6	28.4	19.8	23.2	22.7	20.4	19.0
D	5	-5.5	16.2	-5.9	18.7	22.6	16.6	27.2	19.0	17.1	16.7	20.4	19.1
D	SUM	-34.2		-31.8		136.2		143.4		102.1		107.1	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	23.6	16.5	32.2	23.7	-5.5	16.0	-6.6	24.5	18.0	16.7	23.6	22.5
A	2	31.8	22.4	30.0	21.7	-7.6	22.1	-5.9	21.9	24.2	22.5	23.2	22.2
A	3	31.9	22.4	30.9	22.4	-7.7	22.4	-5.6	20.8	24.1	22.4	24.1	23.0
A	4	31.9	22.4	28.4	20.6	-7.8	22.7	-5.4	19.9	24.0	22.3	21.3	20.4
A	5	23.2	16.3	16.6	12.0	-5.8	16.8	-3.5	12.9	17.4	16.1	12.6	12.0
A	SUM	142.3		138.1		-34.5		-27.0		107.8		104.8	
D	1	-5.7	16.8	-5.4	18.1	22.1	16.3	26.5	19.0	16.4	16.1	19.8	19.1
D	2	-7.7	22.5	-7.0	23.7	30.3	22.2	33.2	23.9	22.6	22.2	25.3	24.4
D	3	-7.6	22.3	-6.0	20.4	30.3	22.3	28.4	20.4	22.7	22.3	21.5	20.7
D	4	-7.6	22.2	-6.0	20.2	30.7	22.6	27.0	19.4	23.2	22.7	19.0	18.7
D	5	-5.5	16.2	-5.2	17.6	22.6	16.6	24.0	17.3	17.0	16.7	18.2	17.5
D	SUM	-34.2		-29.6		136.0		139.0		101.9		103.8	
LOAD	PX (KIPS)	-27.0		-27.0		0.		0.		-27.0		-27.1	
LOAD	PY (KIPS)	0.		0.		-27.0		-27.0		-27.0		-26.9	
ACTUAL	PX (KIPS)			-27.0				0.				-27.0	
ACTUAL	PY (KIPS)			0.				-27.0				-26.9	

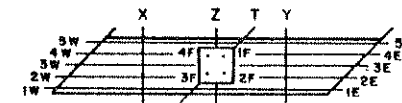
**TABLE 17A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT T-AXIS

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	1C		3C		1C+3C	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	3.71	3.58	15.29	15.76	19.00	21.33
2E	-0.01	-0.16	6.50	8.28	6.49	5.57
3F	-1.71	-1.37	1.56	.07	-0.15	-1.75
4E	-2.14	-4.19	-0.96	-3.27	-3.10	-6.58
5E	-1.97	-0.41	-2.34	-0.34	-4.31	-0.28
1F	-9.36	-11.22	9.28	9.42	-0.08	-0.92
2F	9.87	8.72	11.47	12.86	21.33	22.49
3F	23.18	27.96	2.77	3.86	25.95	30.17
4F	3.95	3.81	.59	-1.65	4.53	1.20
1W	3.96	4.45	.39	1.03	4.35	6.04
2W	5.56	5.02	.13	.02	5.68	5.18
3W	5.70	6.31	-0.26	-0.88	5.44	3.92
4W	3.17	.99	-0.96	-1.57	2.21	-1.23
5W	-2.66	-1.52	-2.21	-1.75	-4.97	-1.39
RE	-2.12	-2.55	20.05	20.50	17.92	18.29
RF	27.62	29.27	24.11	24.42	51.73	52.94
RF	15.74	15.24	-2.92	-3.15	12.82	12.52
SUMP	41.24	41.96	41.24	41.84	82.48	83.75
RY	-41.25	-41.25	0.	0.	-41.25	-41.25
RY	0.	0.	-41.25	-41.25	-41.25	-41.25
SUMP	-41.25	-41.25	-41.25	-41.25	-82.50	-82.50
SUMP/SUMP	1.00	1.02	1.00	1.01	1.00	1.02
TW=-W	-40.17	-41.09	-16.14	-18.39	-56.31	-54.69
WF	39.93	51.40	-26.09	-30.10	13.84	14.79
TF	-57.69	-66.13	-6.56	-13.42	-64.25	-78.57
TF=-WF	-34.69	-30.88	-109.86	-112.50	-144.55	-142.38
ACTUAL PX		-41.25		0.		-41.25
ACTUAL PY		0.		-41.25		-41.25



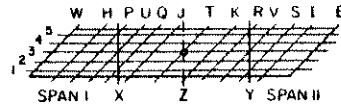
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 17B**

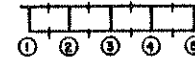
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1C *****			3C *****			1C+3C *****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.241	-.377	1.56	.024	.037	1.57	-.217	-.339	1.56
3H	-.193	-.309	1.60	.028	.054	1.93	-.165	-.255	1.55
5H	-.101	-.149	1.48	.036	.071	1.96	-.065	-.071	1.09
1P	-.363	-.582	1.60	.040	.058	1.44	-.323	-.515	1.59
3P	-.261	-.428	1.64	.045	.083	1.85	-.216	-.339	1.57
1X	-.434	-.703	1.62	.061	.089	1.47	-.373	-.604	1.62
2X	-.350			.058			-.292		
3X	-.271	-.447	1.65	.056	.105	1.89	-.215	-.341	1.59
4X	-.192			.053			-.139		
5X	-.118	-.209	1.77	.051	.118	2.30	-.067	-.097	1.46
1U	-.428	-.704	1.65	.053	.080	1.50	-.374	-.616	1.65
5U	-.085	-.158	1.86	.055	.127	2.29	-.030	-.038	1.27
3Q	-.227	-.368	1.62	.058	.106	1.84	-.169	-.264	1.56
5Q	-.017	-.053	3.14	.045	.109	2.43	.028	.048	1.72
1J	-.381	-.596	1.56	.059	.084	1.43	-.322	-.503	1.57
3J	-.142	-.223	1.57	.046	.083	1.78	-.095	-.142	1.49
5J	.064	-.021	-.33	.019	-.005	-.23	.083	.016	.20
1T	-.216	-.307	1.42	.029	.023	.81	-.188	-.274	1.46
2T	-.101			.015			-.086		
4T	.084			-.022			.062		
5T	.164	.232	1.42	-.047	-.056	1.17	.116	.162	1.39



**TABLE 17C**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

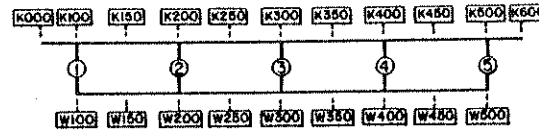
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1C *****			7C *****			1C+7C *****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.077	-.078	1.01	-.050	-.118	1.98	-.137	-.188	1.38
7K	.085	.136	1.59	-.095	-.157	1.66	-.009	-.022	2.33
5K	.205	.303	1.48	-.124	-.184	1.48	.081	.098	1.21
1R	-.015	.015	-.96	-.135	-.254	1.89	-.150	-.224	1.49
3R	.113	.177	1.57	-.149	-.254	1.71	-.036	-.072	2.00
1Y	.036	.076	2.10	-.199	-.373	1.88	-.162	-.280	1.73
2Y	.077			-.185			-.108		
3Y	.118	.154	1.30	-.170	-.252	1.48	-.052	-.091	1.74
4Y	.160			-.154			.007		
5Y	.204	.287	1.41	-.150	-.243	1.60	.053	.041	.77
1V	.022	.067	3.06	-.187	-.355	1.90	-.165	-.270	1.63
5V	.183	.255	1.39	-.146	-.244	1.67	.037	.010	.27
3S	.105	.154	1.48	-.153	-.267	1.74	-.049	-.102	2.09
5S	.146	.201	1.38	-.116	-.207	1.75	.031	.011	.35
1I	.031	.057	1.84	-.162	-.295	1.82	-.131	-.226	1.73
3I	.074	.108	1.46	-.101	-.173	1.72	-.026	-.061	2.29
5I	.096	.137	1.43	-.069	-.119	1.71	.027	.030	1.11
LOAD PX	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD PY	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL PX		-41.2			0.			-41.2	
ACTUAL PY		0.			-41.2			-41.2	

**TABLE 17D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

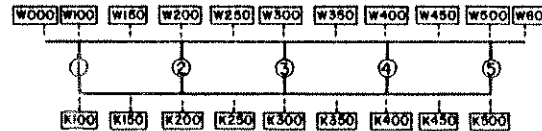
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1C			3C			1C+3C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-101	-904	-195	15	107	25	-95	-774	-161
K	K100	-126	-204	-234	18	26	30	-107	-169	-192
K	K150	-115	-249	-180	15	43	24	-99	-213	-153
K	K200	-117	-127	-139	15	16	18	-102	-111	-122
K	K250	-121	-132	-136	15	15	16	-105	-116	-118
K	K300	-124	-159	-140	16	24	15	-108	-134	-118
K	K350	-117	-113	-127	16	12	15	-100	-94	-105
K	K400	-112	-130	-105	17	22	14	-95	-107	-86
K	K450	-108	-88	-99	17	13	15	-91	-72	-81
K	K500	-126	-104	-95	20	14	13	-106	-84	-77
K	K600	-109	-31	-31	17	6	6	-91	-26	-26
W	W100	279	455	437	-42	-67	-66	237	393	381
W	W150	357	353	342	-48	-50	-58	308	298	291
W	W200	419	423	430	-54	-48	-53	364	369	371
W	W250	444	247	392	-59	-54	-58	385	196	335
W	W300	470	527	520	-64	-80	-76	406	439	436
W	W350	444	337	328	-65	-59	-56	379	270	271
W	W400	430	401	404	-66	-69	-69	363	311	316
W	W450	373	324	325	-60	-76	-46	313	242	256
W	W500	339	177	177	-55	-56	-55	283	125	127
LOAD	PX (KIPS)	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD	PY (KIPS)	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL	PX (KIPS)		-41.2			0.			-41.2	
ACTUAL	PY (KIPS)		0.			-41.2			-41.2	

**TABLE 17E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

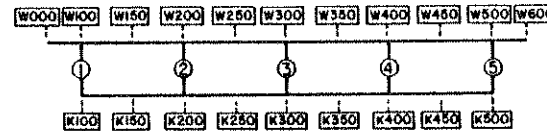
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IC			7C			IC+7C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-55	124	89	144	131	134	89	240	216
W	W100	-55	89	90	144	134	132	89	216	215
W	W150	-11	77	84	125	91	90	113	164	170
W	W200	41	119	120	130	103	104	171	214	216
W	W250	62	97	96	96	93	90	159	193	187
W	W300	90	157	143	68	81	75	158	244	221
W	W350	94	123	137	88	70	74	183	196	213
W	W400	98	129	123	86	93	93	184	226	219
W	W450	106	89	78	75	83	75	182	177	159
W	W500	149	91	91	77	66	65	227	160	160
W	W600	149	82	82	77	47	47	227	135	135
K	K100	16	-33	-33	-57	-57	-58	-41	-82	-82
K	K150	1	-18	-19	-57	-167	-121	-55	-175	-168
K	K200	-16	-45	-36	-56	-57	-69	-72	-98	-104
K	K250	-30	-32	-38	-50	-68	-52	-81	-96	-89
K	K300	-48	-48	-43	-42	-50	-57	-91	-107	-112
K	K350	-54	-73	-62	-52	-43	-51	-106	-120	-122
K	K400	-58	-62	-73	-50	-59	-44	-108	-117	-113
K	K450	-60	-57	-53	-42	-55	-50	-103	-117	-119
K	K500	-71	-66	-57	-37	-50	-40	-108	-112	-112
LOAD	PX (KIPS)	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD	PY (KIPS)	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL	PX (KIPS)		-41.2		0.			-41.2		
ACTUAL	PY (KIPS)		0.		-41.2			-41.2		

TABLE 17F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

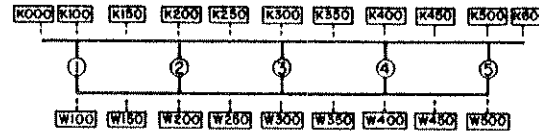
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1C			3C			1C+3C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	146	70	70	164	93	93	311	160	160
W	W100	146	122	120	164	140	140	311	256	255
W	W150	124	162	155	114	165	157	278	316	306
W	W200	130	140	146	105	207	209	236	338	345
W	W250	128	104	103	98	155	177	227	248	269
W	W300	113	125	123	101	119	122	214	234	235
W	W350	100	83	93	42	62	66	142	147	160
W	W400	153	110	108	20	58	54	174	169	164
W	W450	152	156	163	-16	6	7	135	160	172
W	W500	182	122	123	-46	-12	-10	136	107	110
W	W600	182	187	122	-46	-27	-12	136	158	158
K	K100	-73	-128	-128	-84	-100	-99	-157	-201	-200
K	K150	-70	-145	-142	-67	-92	-101	-138	-225	-231
K	K200	-77	-89	-91	-63	-103	-72	-140	-176	-166
K	K250	-76	-73	-73	-56	-62	-77	-133	-141	-152
K	K300	-71	-81	-77	-57	-108	-81	-129	-170	-155
K	K350	-62	-69	-74	-23	-56	-56	-86	-123	-128
K	K400	-65	-70	-67	-8	-16	-16	-73	-85	-84
K	K450	-68	-76	-78	5	-3	-3	-62	-75	-75
K	K500	-72	-81	-81	14	4	4	-57	-72	-72
LOAD	PX (KIPS)	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD	PY (KIPS)	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL	PX (KIPS)		-41.2			0.			-41.2	
ACTUAL	PY (KIPS)		0.			-41.2			-41.2	

**TABLE 17G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

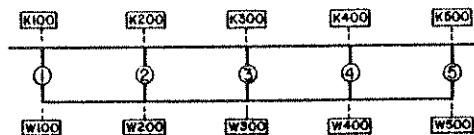
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1C			7C			1C+7C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	39	25	25	-102	-87	-87	-52	-57	-57
K	K100	46	32	32	-135	-112	-112	-99	-75	-75
K	K150	38	39	41	-96	-93	-109	-57	-53	-71
K	K200	38	52	52	-100	-126	-130	-61	-81	-82
K	K250	38	42	41	-87	-78	-95	-48	-34	-67
K	K300	38	38	38	-89	-78	-78	-50	-39	-39
K	K350	38	34	36	-75	-55	-58	-37	-20	-29
K	K400	38	41	41	-70	-65	-67	-32	-24	-24
K	K450	38	36	37	-65	-71	-84	-27	-49	-39
K	K500	44	38	38	-75	-73	-74	-30	-41	-41
K	K600	37	57	57	-62	-85	-85	-25	-40	-40
W	W100	-121	-108	-108	400	609	609	279	442	448
W	W150	-134	-89	-99	347	335	316	212	238	213
W	W200	-150	-102	-105	388	464	459	238	326	317
W	W250	-149	-106	-103	332	298	319	183	179	199
W	W300	-148	0	-93	336	0	204	187	0	186
W	W350	-142	-77	-89	271	210	222	129	128	132
W	W400	-136	-154	-150	242	251	246	105	111	109
W	W450	-118	-66	-65	198	199	212	80	123	145
W	W500	-103	-86	-93	171	194	212	58	102	120
LOAD	PX (KIPS)	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD	PY (KIPS)	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL	PX (KIPS)		-41.2		0.	0.		-41.2	-41.2	
ACTUAL	PY (KIPS)		0.		-41.2	-41.2		0.	0.	

TABLE 17H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F,G



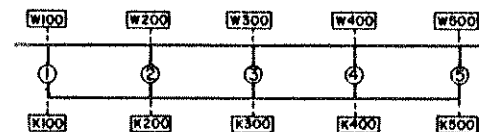
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1C			3C			1C+3C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-69	-47		1	4		-68	-44	
K	K200	-81	-83		2	5		-79	-80	
K	K300	-96	-86		4	3		-92	-82	
K	K400	-96	-115		7	8		-89	-106	
K	K500	-118	-87		14	11		-103	-76	
W	W100	85	76		-0	-8		85	74	
W	W200	105	289		-3	-26		102	281	
W	W300	116	292		-5	14		110	291	
W	W400	116	214		-9	-44		107	179	
W	W500	128	318		-15	-70		112	260	
SECTION F										
K	K100	-168	-149		10	12		-157	-138	
K	K200	-130	-197		12	17		-118	-167	
K	K400	-117	-163		22	35		-95	-130	
K	K500	-114	-96		13	29		-81	-69	
W	W100	201	398		-11	-27		190	363	
W	W200	162	397		-15	-28		147	348	
W	W400	144	335		-28	-71		116	266	
W	W500	124	389		-36	-78		87	305	

**TABLE 171**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



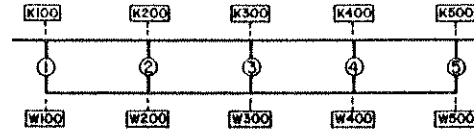
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1C			3C			1C+3C		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	-110	-81		34	29		-84	-54	
W	W200	-68	-112		74	68		-33	-64	
W	W300	-29	-10		35	121		7	111	
W	W400	0	32		34	91		35	127	
W	W500	22	59		39	91		61	163	
K	K100	132	545		-36	-122		95	421	
K	K200	84	146		-43	-60		41	46	
K	K300	35	22		-44	-46		-8	-32	
K	K400	1	8		-42	-54		-40	-47	
K	K500	-22	-37		-40	-54		-63	-95	
SECTION K										
W	W100	60	124		23	83		84	199	
W	W200	55	113		-9	74		54	141	
W	W300	51	117		-27	-42		23	67	
W	W400	50	186		-41	-103		9	52	
W	W500	56	118		-60	-96		-4	5	
K	K100	-64	-72		-26	-61		-90	-126	
K	K200	-67	-74		3	-2		-64	-72	
K	K300	-63	-70		33	32		-29	-39	
K	K400	-63	-81		40	47		-14	-28	
K	K500	-58	-108		61	90		3	6	

TABLE 17J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

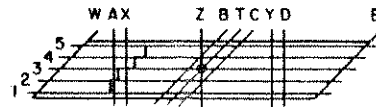
GAGE TYPE	GAGE LOC.	1C			3C			1C+3C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	53	75		-95	-129		-42	-63	
K	K200	41	54		-90	-111		-49	-62	
K	K400	35	36		-62	-58		-27	-26	
K	K500	16	23		-55	-50		-18	-30	
W	W100	-57	-106		103	266		46	156	
W	W200	-52	-75		115	289		62	194	
W	W400	-44	-124		76	289		32	139	
W	W500	-40	-128		58	229		18	105	
SECTION I										
K	K100	42	29		-101	-62		-59	-39	
K	K200	32	35		-58	-64		-25	-28	
K	K300	30	26		-28	-13		1	13	
K	K400	25	20		-15	-10		10	8	
K	K500	23	14		-9	-15		14	-1	
W	W100	-46	-45		117	244		71	181	
W	W200	-40	-92		73	228		33	149	
W	W300	-36	-61		36	169		0	99	
W	W400	-32	-69		20	61		-11	9	
W	W500	-29	-25		9	32		-20	9	



**TABLE 17K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 10 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



I KIP = 4.448 kN  
I FT = 0.305 m

I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1C				3C				1C+3C			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	37.2	18.6	31.6	16.3	-5.5	19.9	-5.2	16.8	31.7	18.6	27.4	17.1
A	2	41.8	20.9	45.2	23.4	-5.5	19.1	-6.3	20.5	36.3	21.2	38.9	24.2
A	3	43.5	21.8	50.1	25.9	-5.8	20.2	-7.7	24.9	37.7	22.0	42.1	26.2
A	4	40.1	20.1	45.4	23.5	-6.0	20.9	-7.4	23.8	34.1	20.0	36.1	22.5
A	5	37.1	18.6	21.1	10.9	-6.0	20.9	-4.3	13.9	31.1	18.2	16.1	10.0
A	SUM	199.7		193.4		-28.9		-30.9		179.8		160.4	
D	1	-13.4	19.9	-10.3	19.3	37.1	24.8	45.9	26.6	23.7	29.9	12.8	29.2
D	2	-13.7	20.3	-13.2	24.6	34.4	23.0	49.2	29.5	20.7	25.2	32.9	29.3
D	3	-13.7	20.3	-11.1	20.8	30.8	20.6	33.3	19.3	17.1	20.9	20.9	18.6
D	4	-13.6	20.2	-12.4	23.1	25.1	16.8	25.4	14.7	11.5	14.0	13.7	12.2
D	5	-13.1	19.4	-6.5	12.2	22.1	14.8	18.8	10.9	9.0	11.0	12.0	10.7
D	SUM	-67.5		-53.5		149.4		172.5		81.9		112.4	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	25.8	13.0	72.6	31.1	-3.8	13.1	-9.2	31.4	22.0	13.0	59.7	30.5
A	2	49.6	25.0	50.5	21.6	-6.5	22.8	-6.5	22.1	43.0	25.3	43.0	22.4
A	3	59.2	25.3	46.9	20.1	-6.9	24.1	-5.1	17.3	43.2	25.5	40.0	20.4
A	4	46.6	23.5	37.6	16.1	-7.2	25.1	-4.9	16.7	39.4	23.2	31.1	15.9
A	5	26.4	13.3	26.0	11.1	-4.3	14.9	-3.7	12.4	22.2	13.0	21.2	10.8
A	SUM	198.7		233.6		-28.7		-29.4		169.9		196.0	
D	1	-9.5	14.1	-12.7	15.7	28.5	19.3	38.8	22.0	19.0	23.7	25.3	25.4
D	2	-16.3	24.2	-20.0	24.7	40.5	27.4	47.0	26.7	24.2	30.1	30.0	31.0
D	3	-16.1	24.0	-15.8	19.5	34.7	23.5	30.9	17.5	18.5	23.1	16.4	16.5
D	4	-16.1	24.0	-15.8	19.5	28.6	19.4	28.0	15.9	12.5	15.6	10.8	10.9
D	5	-9.2	13.7	-16.7	20.6	15.2	10.3	31.5	17.9	6.1	7.6	16.0	16.1
D	SUM	-67.2		-81.0		147.5		175.2		90.3		99.4	
LOAD	PX (KIPS)	-41.2		-41.2		0.		0.		-41.2		-41.2	
LOAD	PY (KIPS)	0.		0.		-41.2		-41.2		-41.2		-41.2	
ACTUAL	PX (KIPS)			-41.2				0.				-41.2	
ACTUAL	PY (KIPS)			0.				-41.2				-41.2	

TABLE 17L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

SECTION	GIRDER	1C				3C				1C+3C			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	30.8	15.5	52.7	24.7	-4.5	15.7	-7.3	24.3	26.3	15.4	44.1	24.7
A	2	46.2	23.2	47.7	22.4	-6.1	21.2	-6.4	21.4	40.1	23.5	41.3	23.2
A	3	47.2	23.7	48.2	22.6	-6.5	22.4	-6.3	21.1	40.9	24.0	40.8	22.9
A	4	43.8	22.0	41.1	19.3	-6.7	23.2	-6.1	20.2	37.1	21.8	33.3	18.7
A	5	31.1	15.6	23.5	11.0	-5.1	17.5	-3.9	13.1	26.1	15.3	18.7	10.5
A	SUM	199.1		213.3		-28.8		-30.0		170.3		178.1	
D	1	-11.2	16.6	-11.4	17.2	32.3	21.7	42.5	24.4	21.1	26.0	29.3	27.5
D	2	-15.2	22.5	-16.4	24.7	37.8	25.5	48.1	27.6	22.6	27.9	31.9	30.1
D	3	-15.0	22.4	-13.3	20.1	33.0	22.2	32.2	18.5	17.9	22.1	18.8	17.7
D	4	-15.0	22.3	-14.0	21.1	27.1	18.3	26.6	15.3	12.1	14.9	12.4	11.6
D	5	-10.9	16.2	-11.3	17.0	18.3	12.3	24.7	14.2	7.4	9.1	13.9	13.1
D	SUM	-67.3		-66.3		148.3		174.1		81.0		106.2	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXES													
A	1	31.0	15.6	47.2	23.7	-4.5	15.7	-6.4	22.2	26.4	15.5	39.0	23.6
A	2	46.1	23.2	43.7	22.0	-6.1	21.1	-6.0	20.7	40.1	23.5	37.7	22.8
A	3	47.2	23.7	45.6	22.9	-6.5	22.4	-6.5	22.5	40.7	23.9	38.5	23.3
A	4	43.7	22.0	40.0	20.1	-6.7	23.2	-6.2	21.5	37.0	21.7	32.1	19.4
A	5	31.1	15.6	22.4	11.3	-5.1	17.5	-3.8	13.1	26.1	15.3	18.0	10.9
A	SUM	199.1		199.0		-28.8		-29.0		170.3		165.3	
D	1	-11.2	16.7	-10.7	17.6	32.3	21.8	43.8	25.5	21.0	26.0	31.0	28.6
D	2	-15.1	22.5	-15.5	25.3	37.7	25.4	47.9	27.9	22.6	27.9	31.9	29.5
D	3	-15.0	22.3	-12.3	20.2	32.9	22.2	32.2	18.8	17.9	22.1	19.7	18.1
D	4	-15.0	22.3	-12.9	21.2	27.0	18.2	25.5	14.9	12.0	14.9	12.9	11.9
D	5	-10.9	16.2	-9.5	15.7	18.3	12.4	22.0	12.9	7.4	9.2	12.9	11.9
D	SUM	-67.3		-61.0		148.2		171.4		80.9		108.4	
LOAD	PX (KIPS)	-41.2		-41.2		0.		0.		-41.2		-41.2	
LOAD	PY (KIPS)	0.		0.		-41.2		-41.2		-41.2		-41.2	
ACTUAL	PX (KIPS)			-41.2		0.		0.		-41.2		-41.2	
ACTUAL	PY (KIPS)			0.		-41.2		-41.2		-41.2		-41.2	

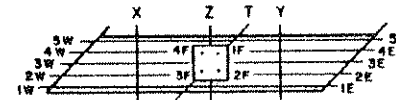
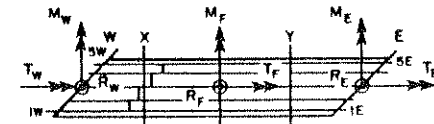
**TABLE 18A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	2C		4C		2C+4C	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	-2.10	-1.17	-2.75	-1.14	-4.85	-1.23
2E	-.94	-1.07	3.02	-1.10	2.08	-3.56
3E	-.29	-.59	5.53	3.47	5.24	2.20
4E	.10	.66	5.35	8.22	5.45	8.86
5E	.37	.86	3.73	4.73	4.09	5.99
1F	2.36	2.79	23.54	28.00	25.90	31.69
2F	.52	-1.73	4.09	4.43	4.62	3.31
3F	9.20	9.67	-9.30	-12.60	-1.10	-3.73
4F	11.03	14.94	10.15	10.58	21.18	25.18
1W	-2.42	-2.04	-1.98	-2.10	-4.40	-2.40
2W	-.80	-.14	-2.16	-.25	-2.96	-.13
3W	1.89	-.38	-1.72	-2.96	.17	-6.25
4W	6.85	6.50	-.01	-.23	6.84	5.68
5W	15.48	17.03	3.73	3.00	19.21	21.48
RF	-2.87	-3.31	14.88	15.18	12.01	12.26
RF	23.11	25.67	28.49	30.51	51.60	56.45
RW	20.99	20.97	-2.13	-2.54	18.86	18.39
SUMR	41.24	43.33	41.24	43.15	82.48	87.09
PX	-41.25	-41.25	0.	0.	-41.25	-41.25
PY	0.	0.	-41.25	-41.25	-41.25	-41.25
SUMP	-41.25	-41.25	-41.25	-41.25	-82.50	-82.50
SUMR / SUMP	1.00	1.05	1.00	1.05	1.00	1.06
TW=-MW	111.70	115.15	34.90	26.28	146.60	137.75
MF	26.03	35.32	-40.17	-51.52	-14.15	-20.32
TF	6.50	14.68	58.34	70.27	63.84	85.93
TE=-ME	15.36	20.03	39.31	51.58	54.67	69.07
ACTUAL PX		-41.25		0.		-41.25
ACTUAL PY		0.		-41.25		-41.25



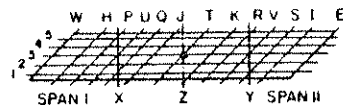
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 18B**

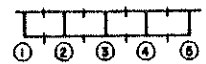
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

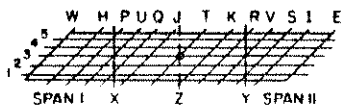
DEFLECTION AT POINT	2C			4C			2C+4C		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.071	-.117	1.65	.097	.146	1.51	.026	.050	1.94
3H	-.101	-.176	1.73	.075	.117	1.57	-.027	-.051	1.89
5H	-.151	-.256	1.69	.031	.046	1.47	-.120	-.199	1.66
1P	-.119	-.199	1.67	.147	.215	1.46	.028	.032	1.16
3P	-.151	-.267	1.77	.105	.162	1.54	-.046	-.097	2.11
1X	-.159	-.258	1.62	.205	.310	1.52	.046	.050	1.11
2X	-.163			.161			-.002		
3X	-.171	-.304	1.78	.119	.190	1.60	-.052	-.111	2.14
4X	-.178			.077			-.100		
5X	-.186	-.362	1.94	.037	.072	1.95	-.150	-.276	1.85
1U	-.154	-.252	1.64	.184	.282	1.54	.030	.030	1.01
5U	-.177	-.338	1.91	.022	.061	2.71	-.154	-.270	1.75
3O	-.152	-.263	1.73	.113	.184	1.63	-.038	-.077	2.01
5O	-.126	-.237	1.89	-.015	.007	-.48	-.140	-.225	1.60
1J	-.130	-.194	1.49	.206	.321	1.56	.076	.113	1.49
3J	-.095	-.161	1.69	.086	.141	1.65	-.009	-.021	2.30
5J	-.054	.006	-.11	-.077	.003	-.03	-.132	-.001	.00
1T	-.049	-.056	1.14	.165	.248	1.51	.115	.184	1.59
2T	-.023			.085			.061		
4T	.016			-.102			-.086		
5T	.030	.027	.88	-.218	-.325	1.49	-.188	-.289	1.54

**TABLE 18C**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

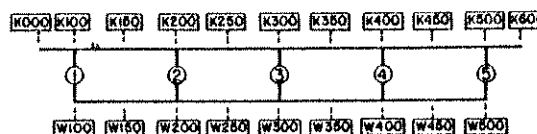
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	2C			4C			2C+4C		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	.019	.062	3.27	.065	.078	1.20	.084	.136	1.61
3K	.047	.086	1.84	-.142	-.228	1.60	-.095	-.146	1.52
5K	.061	.095	1.57	-.383	-.620	1.62	-.322	-.525	1.63
1R	.044	.109	2.47	-.014	-.050	3.69	.031	.058	1.89
3R	.058	.107	1.85	-.226	-.366	1.62	-.167	-.263	1.57
1Y	.050	.111	2.25	-.109	-.195	1.79	-.059	-.082	1.39
2Y	.053			-.181			-.128		
3Y	.056	.094	1.67	-.269	-.379	1.41	-.213	-.286	1.35
4Y	.060			-.356			-.297		
5Y	.062	.096	1.54	-.443	-.736	1.66	-.380	-.641	1.68
1V	.054	.125	2.33	-.078	-.152	1.96	-.024	-.030	1.24
5V	.054	.084	1.55	-.439	-.730	1.66	-.398	-.649	1.69
3S	.045	.085	1.89	-.258	-.423	1.64	-.213	-.341	1.60
5S	.041	.062	1.53	-.363	-.592	1.63	-.322	-.534	1.66
1I	.035	.082	2.33	-.095	-.154	1.62	-.060	-.065	1.08
3I	.028	.054	1.92	-.180	-.307	1.62	-.162	-.253	1.57
5I	.024	.039	1.59	-.239	-.387	1.62	-.214	-.358	1.65
LOAD PX	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD PY	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL PX				0.	0.				
ACTUAL PY				-41.2	-41.2				

TABLE 18D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

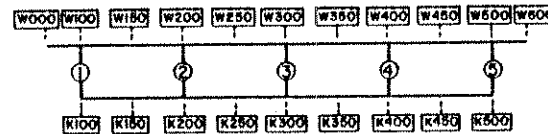
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	2C			4C			2C+4C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-76	-630	-115	37	221	61	-38	-350	-54
K	K100	-86	-120	-137	44	63	71	-41	-55	-61
K	K150	-72	-194	-104	38	93	61	-33	-114	-48
K	K200	-76	-66	-77	39	43	50	-37	-28	-33
K	K250	-70	-73	-71	38	49	44	-31	-25	-25
K	K300	-64	-102	-72	38	41	42	-26	-58	-22
K	K350	-71	-55	-68	39	37	39	-32	-18	-23
K	K400	-75	-101	-64	39	40	35	-36	-62	-27
K	K450	-77	-62	-70	39	31	34	-38	-33	-36
K	K500	-92	-75	-71	46	31	29	-46	-39	-39
K	K600	-77	-26	-26	39	10	10	-38	-23	-23
W	W100	208	319	290	-102	-116	-117	105	193	189
W	W150	224	240	228	-118	-86	-83	105	147	169
W	W200	265	262	284	-137	-97	-95	127	142	153
W	W250	256	276	255	-143	-60	-92	113	182	178
W	W300	250	361	349	-149	-103	-101	100	228	227
W	W350	278	261	258	-150	-68	-69	127	164	166
W	W400	296	296	289	-151	-81	-88	145	167	161
W	W450	274	297	287	-134	-79	-86	139	182	175
W	W500	247	188	198	-121	-64	-58	125	120	128
LOAD	PX (KIPS)	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD	PY (KIPS)	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL	PX (KIPS)		-41.2			0.			-41.2	
ACTUAL	PY (KIPS)		0.			-41.2			-41.2	

**TABLE 18E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

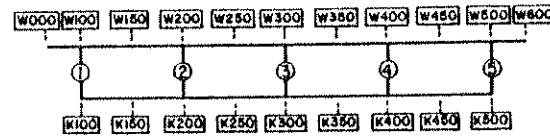
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		2C			4C			2C+4C		
GAGE TYPE	GAGE LOC.	*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-37	57	7	182	76	180	145	134	172
W	W100	-37	0	0	182	180	178	145	172	170
W	W150	-8	19	22	152	118	118	144	132	134
W	W200	30	47	47	152	128	129	183	172	173
W	W250	56	99	91	119	109	106	175	206	197
W	W300	102	148	114	114	111	115	217	261	230
W	W350	96	127	136	131	117	124	228	249	261
W	W400	101	142	144	133	189	184	235	335	330
W	W450	108	162	147	128	145	131	236	308	278
W	W500	154	160	156	152	162	164	306	319	318
W	W600	154	138	138	152	157	157	306	294	294
K	K100	11	-3	-3	-72	-87	-88	-60	-86	-87
K	K150	1	-64	-50	-67	-173	-144	-66	-206	-186
K	K200	-12	-24	-25	-64	-73	-86	-76	-94	-104
K	K250	-26	-53	-48	-62	-76	-50	-89	-129	-111
K	K300	-58	-96	-78	-72	-50	-64	-130	-153	-151
K	K350	-55	-56	-71	-77	-70	-73	-133	-129	-149
K	K400	-61	-94	-50	-70	-70	-72	-140	-162	-132
K	K450	-63	-84	-95	-73	-73	-76	-137	-162	-175
K	K500	-78	-72	-71	-77	-88	-87	-155	-157	-155
LOAD	PX (KIPS)	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD	PY (KIPS)	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL	PX (KIPS)		-41.2			0.			-41.2	
ACTUAL	PY (KIPS)		0.			-41.2			-41.2	

TABLE 18F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 70 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

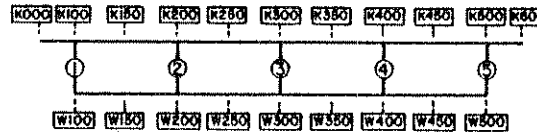
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2C			4C			2C+4C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	86	0	66	146	128	75	232	122	122
W	W100	86	66	65	146	75	73	232	141	140
W	W150	80	97	90	103	93	90	184	188	181
W	W200	89	112	115	94	90	93	183	203	209
W	W250	89	86	94	92	110	96	181	192	184
W	W300	68	91	91	88	145	143	156	242	240
W	W350	78	75	80	50	72	81	128	147	165
W	W400	126	96	90	38	124	121	164	217	213
W	W450	120	118	113	-14	115	127	102	230	247
W	W500	140	86	90	-67	69	72	72	154	158
W	W600	140	128	128	-67	80	80	72	209	209
K	K100	-42	-74	-73	-69	-98	-104	-111	-159	-161
K	K150	-46	-70	-75	-58	-96	-63	-104	-167	-155
K	K200	-52	-67	-55	-55	-64	-90	-108	-128	-141
K	K250	-53	-55	-64	-52	-61	-59	-105	-121	-121
K	K300	-42	-83	-78	-47	-59	-8	-89	-140	-101
K	K350	-49	-89	-74	-29	13	9	-79	-70	-85
K	K400	-54	-54	-60	-15	-47	-7	-69	-100	-77
K	K450	-55	-64	-60	4	-10	-11	-50	-67	-71
K	K500	-55	-53	-53	21	-4	-4	-33	-54	-54
LOAD	PX (KIPS)	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD	PY (KIPS)	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL	PX (KIPS)		-41.2			0.			-41.2	
ACTUAL	PY (KIPS)		0.			-41.2			-41.2	



**TABLE 18G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED; NO RESTRAINTS.



SECTION D

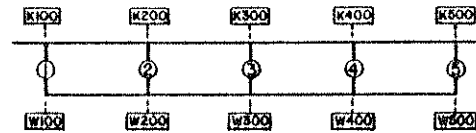
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2C			4C			2C+4C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	17	11	11	-100	-65	-65	-82	-54	-54
K	K100	20	15	15	-119	-84	-84	-98	-71	-71
K	K150	16	13	17	-103	-91	-100	-85	-78	-85
K	K200	16	18	18	-109	-128	-128	-92	-114	-114
K	K250	16	14	16	-114	-112	-115	-98	-99	-100
K	K300	16	17	17	-129	-129	-129	-113	-113	-113
K	K350	16	13	13	-128	-114	-121	-112	-99	-106
K	K400	16	15	17	-141	-149	-153	-125	-134	-136
K	K450	16	22	25	-138	-143	-163	-121	-126	-145
K	K500	19	23	23	-183	-178	-179	-164	-159	-161
K	K600	15	26	26	-142	-230	-230	-126	-210	-210
W	W100	-54	-75	-77	310	435	435	255	353	352
W	W150	-58	-52	-44	388	297	304	289	242	252
W	W200	-64	-75	-72	411	403	405	346	331	336
W	W250	-63	-46	-56	433	377	377	359	319	317
W	W300	-62	0	-63	491	0	406	428	0	349
W	W350	-50	-39	-40	469	377	402	409	337	361
W	W400	-57	-29	-30	504	519	517	447	486	488
W	W450	-49	-37	-43	441	415	453	391	391	407
W	W500	-43	-36	-35	464	513	528	421	487	494
LOAD	PX (KIPS)	-41.2	-41.2		0.	0.		-41.2	-41.2	
LOAD	PY (KIPS)	0.	0.		-41.2	-41.2		-41.2	-41.2	
ACTUAL	PX (KIPS)		-41.2			0.			-41.2	
ACTUAL	PY (KIPS)		0.			-41.2			-41.2	

TABLE 18H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G.



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

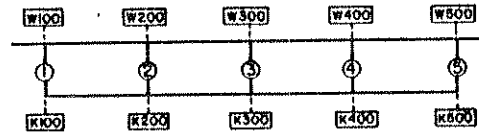
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	2C			4C			2C+4C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-7	-14		23	14		16	0	
K	K200	-14	-27		25	22		11	-8	
K	K300	-32	-29		30	24		-2	-7	
K	K400	-64	-87		33	37		-31	-47	
K	K500	-90	-91		42	30		-47	-64	
W	W100	6	29		-30	-21		-23	4	
W	W200	19	132		-32	-49		-12	71	
W	W300	41	79		-36	-78		4	3	
W	W400	80	290		-40	-40		39	230	
W	W500	102	418		-46	-66		56	336	
SECTION F										
K	K100	-53	-51		37	33		-16	-24	
K	K200	-59	-86		35	44		-23	-42	
K	K400	-79	-116		42	62		-36	-62	
K	K500	-116	-97		54	42		-61	-52	
W	W100	55	145		-40	-61		14	84	
W	W200	74	164		-44	-84		29	80	
W	W400	100	300		-53	-66		47	202	
W	W500	135	405		-58	-71		76	293	

**TABLE**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 10 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



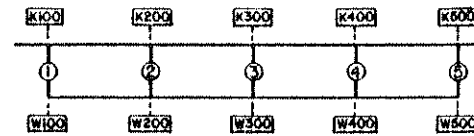
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2C			4C			2C+4C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-61	-37		56	43		-5	0	
W	W200	-40	-65		51	113		10	29	
W	W300	-23	-29		51	185		28	148	
W	W400	1	36		56	157		57	180	
W	W500	20	107		62	170		82	281	
K	K100	62	181		-58	-165		4	12	
K	K200	48	51		-63	-93		-15	-75	
K	K300	29	26		-64	-75		-34	-49	
K	K400	1	-19		-68	-65		-67	-84	
K	K500	-22	-33		-65	-90		-87	-109	
SECTION K										
W	W100	41	73		18	30		59	110	
W	W200	35	75		-3	9		32	88	
W	W300	15	80		-31	-27		4	47	
W	W400	33	137		-72	-183		-38	-79	
W	W500	34	75		-105	-210		-71	-148	
K	K100	-43	-60		-17	-30		-61	-93	
K	K200	-43	-50		6	-5		-37	-56	
K	K300	-43	-54		38	43		-5	-17	
K	K400	-42	-54		89	117		45	48	
K	K500	-36	-74		115	204		79	160	

**TABLE 18J**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



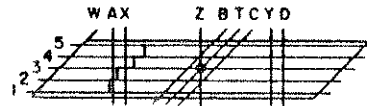
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		2C			AC			2C+4C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	30	35		-103	-128		-72	-97	
K	K200	20	28		-104	-126		-83	-100	
K	K400	12	12		-132	-139		-120	-127	
K	K500	10	11		-152	-115		-141	-105	
W	W100	-32	-84		109	267		76	189	
W	W200	-26	-65		128	310		102	241	
W	W400	-15	-67		168	604		152	547	
W	W500	-11	-49		175	686		164	663	
SECTION I										
K	K100	14	7		-115	-67		-100	-60	
K	K200	7	7		-96	-108		-89	-99	
K	K300	4	0		-92	-93		-88	-91	
K	K400	2	-1		-76	-67		-73	-69	
K	K500	1	1		-62	-43		-61	-44	
W	W100	-16	-31		123	194		107	169	
W	W200	-9	-30		116	316		107	282	
W	W300	-5	-24		112	306		106	277	
W	W400	-3	6		97	262		94	284	
W	W500	-0	-1		76	96		75	101	

**TABLE 18K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

		2C				4C				2C+4C							
		*****								*****							
SECTION	GIRDER	THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL					
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT				
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH																	
A	1	25.2	19.5	21.3	15.0	-13.0	19.2	-7.9	17.8	12.1	19.9	15.5	16.9				
A	2	26.4	20.4	29.9	21.0	-13.8	20.3	-10.3	23.0	12.6	20.6	18.7	20.5				
A	3	24.0	18.6	34.9	24.5	-13.8	20.3	-10.2	22.7	10.2	16.7	23.3	25.5				
A	4	26.6	20.6	35.3	24.8	-13.8	20.4	-10.1	22.7	12.8	20.9	20.9	22.8				
A	5	26.8	20.8	21.0	14.8	-13.4	19.8	-6.2	13.8	13.4	21.9	13.2	14.4				
A	SUM	129.0		142.4		-67.9		-44.7		61.1		91.6					
D	1	-6.0	20.6	-5.9	21.6	34.9	15.9	36.7	16.2	28.9	15.2	30.0	15.2				
D	2	-5.9	20.5	-7.7	28.1	38.8	17.7	47.6	21.0	32.9	17.3	39.5	20.0				
D	3	-5.8	19.9	-6.6	24.2	45.1	20.6	47.2	20.9	39.4	20.7	40.8	20.6				
D	4	-5.7	19.7	-3.8	13.8	49.1	22.4	51.6	22.8	43.4	22.8	47.4	24.0				
D	5	-5.6	19.3	-3.4	12.2	51.1	23.3	43.5	19.2	45.6	24.0	39.9	20.2				
D	SUM	-28.9		-27.5		219.0		226.6		190.1		197.6					
MOMENTS ABOUT TENSION FLANGE STEEL																	
A	1	18.2	14.2	42.1	31.1	-9.1	13.5	-23.0	29.9	9.1	14.9	18.4	32.1				
A	2	30.6	23.9	27.9	20.6	-16.2	24.1	-17.7	23.1	14.3	23.6	11.6	20.2				
A	3	28.1	21.9	24.0	17.7	-16.2	24.1	-14.9	19.5	11.9	19.6	7.2	12.5				
A	4	32.0	24.9	22.6	16.7	-16.4	24.3	-12.8	16.7	15.6	25.7	9.3	16.2				
A	5	19.3	15.1	18.9	13.9	-9.5	14.1	-8.3	10.8	9.8	16.2	10.8	18.9				
A	SUM	128.2		135.4		-67.5		-76.7		60.7		57.3					
D	1	-4.2	14.8	-5.4	14.6	24.3	11.2	30.9	11.8	20.0	10.7	26.2	11.3				
D	2	-7.0	24.5	-7.1	19.2	44.5	20.5	48.4	18.4	37.5	19.9	42.7	18.4				
D	3	-6.8	23.8	-6.4	17.4	51.4	23.7	50.2	19.1	44.6	23.7	43.7	18.9				
D	4	-6.8	23.5	-7.9	21.3	58.0	26.8	60.0	22.8	51.3	27.3	53.2	22.9				
D	5	-3.9	13.4	-10.1	27.5	38.4	17.7	73.6	28.0	34.6	18.4	66.2	28.5				
D	SUM	-28.7		-36.9		216.6		263.1		187.9		232.0					
LOAD	PX (KIPS)	-41.2		-41.2		0.		0.		-41.2		-41.2					
LOAD	PY (KIPS)	0.		0.		-41.2		-41.2		-41.2		-41.2					
ACTUAL	PX (KIPS)			-41.2				0.				-41.2					
ACTUAL	PY (KIPS)			0.				-41.2				-41.2					

TABLE 18L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	2C				4C				2C+4C			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXES													
A	1	21.3	16.6	32.0	23.2	-10.8	16.0	-15.7	25.7	10.4	17.1	16.9	23.1
A	2	28.7	22.4	28.7	20.8	-15.2	22.4	-14.1	23.1	13.6	22.3	14.9	20.4
A	3	26.3	20.5	29.0	21.0	-15.2	22.4	-12.6	20.6	11.1	18.3	14.8	20.2
A	4	29.6	23.0	28.5	20.6	-15.3	22.6	-11.5	18.8	14.3	23.6	14.8	20.1
A	5	22.6	17.6	19.8	14.3	-11.2	16.6	-7.2	11.8	11.4	18.7	11.9	16.2
A	SUM	128.5		138.0		-67.7		-61.1		60.9		73.3	
D	1	-5.0	17.4	-5.7	17.8	28.9	13.3	34.0	14.0	23.9	12.7	28.2	13.2
D	2	-6.5	22.7	-7.4	23.3	42.0	19.3	48.0	19.7	35.4	18.8	40.9	19.2
D	3	-6.4	22.1	-6.5	20.5	48.6	22.3	48.6	20.0	42.3	22.4	42.2	19.7
D	4	-6.3	21.9	-5.7	17.9	54.1	24.8	55.5	22.8	47.8	25.3	50.1	23.5
D	5	-4.6	16.0	-6.5	20.5	44.0	20.2	57.5	23.6	39.4	20.9	52.2	24.4
D	SUM	-28.8		-31.9		217.7		243.5		188.9		213.5	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	21.2	16.5	28.2	21.1	-10.9	16.1	-14.4	25.8	10.4	17.1	15.3	19.4
A	2	28.7	22.3	27.2	20.3	-15.1	22.4	-12.9	23.1	13.5	22.3	15.7	19.9
A	3	26.3	20.5	29.7	22.2	-15.1	22.4	-11.3	20.2	11.1	18.3	19.1	24.2
A	4	29.6	23.1	29.6	22.1	-15.3	22.6	-10.5	18.8	14.3	23.6	17.0	21.6
A	5	22.6	17.6	19.1	14.3	-11.2	16.6	-6.8	12.1	11.4	18.7	11.6	14.8
A	SUM	128.4		133.8		-67.6		-55.9		60.8		78.7	
D	1	-5.0	17.4	-5.7	18.4	29.0	13.3	35.0	15.0	24.0	12.7	28.7	14.1
D	2	-6.5	22.7	-7.4	23.9	41.9	19.3	47.1	20.2	35.4	18.8	39.8	19.5
D	3	-6.4	22.1	-6.5	20.8	48.5	22.3	47.3	20.3	42.2	22.4	40.9	20.1
D	4	-6.3	21.8	-5.3	17.2	54.0	24.8	52.8	22.6	47.7	25.3	48.0	23.6
D	5	-4.6	16.1	-6.1	19.7	44.0	20.2	50.9	21.8	39.4	20.9	46.2	22.7
D	SUM	-28.8		-31.1		217.5		233.1		188.7		203.7	
LOAD	PX (KIPS)	-41.2		-41.2		0.		0.		-41.2		-41.2	
LOAD	PY (KIPS)	0.		0.		-41.2		-41.2		-41.2		-41.2	
ACTUAL	PX (KIPS)			-41.2		0.		0.		-41.2		-41.2	
ACTUAL	PY (KIPS)			0.		-41.2		-41.2		-41.2		-41.2	

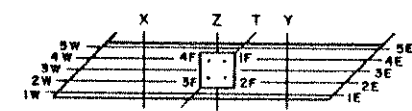
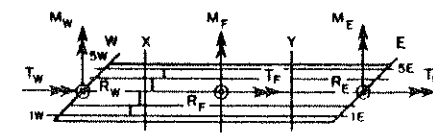
**TABLE 19A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT T-AXIS

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	1C+4C		NORMALIZED POINT LOADS AT 2C+3C		*****	
	*****		*****		*****	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	.96	-0.73	13.19	12.85		
2E	3.01	2.05	5.56	6.79		
3E	3.82	3.19	1.27	.45		
4E	3.21	5.83	-0.86	-2.14		
5E	1.76	2.58	-1.97	-0.49		
1F	14.18	15.86	11.64	13.03		
2F	13.96	14.60	11.99	11.18		
3F	13.88	15.57	11.97	13.26		
4F	14.10	14.59	11.62	13.40		
1W	1.98	2.66	-2.03	-2.08		
2W	3.40	2.56	-0.69	-0.13		
3W	3.98	5.49	1.63	.93		
4W	3.17	2.49	5.89	5.83		
5W	1.07	-0.65	13.27	13.02		
RF	12.76	12.91	17.18	17.46		
RE	56.11	60.62	47.22	50.87		
RW	13.61	12.54	18.07	17.57		
SUMP	92.48	86.07	82.48	95.90		
DX	-41.25	-41.25	-41.25	-41.25		
DY	-41.25	-41.25	-41.25	-41.25		
SUMP	-82.50	-82.50	-82.50	-82.50		
SUMP / SUMP	1.00	1.04	1.00	1.04		
TW=-MW	-5.27	-17.20	95.57	92.98		
ME	-0.25	-0.45	-0.06	3.67		
TF	.65	.42	-1.06	2.98		
TF=-ME	4.62	26.74	-94.50	-91.57		
ACTUAL DX		-41.25		-41.25		
ACTUAL DY		-41.25		-41.25		



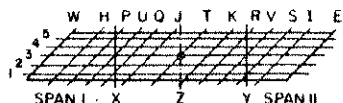
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 19B**

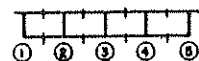
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT  
 1C+4C  
 2C+3C

DEFLECTION AT POINT	***** 1C+4C *****			***** 2C+3C *****			*****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.144	-.252	1.74	-.047	-.090	1.90			
3H	-.118	-.208	1.76	-.073	-.130	1.78			
5H	-.070	-.112	1.60	-.115	-.194	1.68			
1P	-.216	-.391	1.81	-.079	-.142	1.79			
3P	-.156	-.282	1.81	-.106	-.193	1.81			
1X	-.229	-.421	1.84	-.098	-.165	1.68			
2X	-.189			-.104					
3X	-.152	-.280	1.84	-.115	-.207	1.80			
4X	-.115			-.124					
5X	-.081	-.158	1.95	-.135	-.258	1.91			
1U	-.244	-.449	1.84	-.100	-.175	1.75			
5U	-.063	-.116	1.86	-.121	-.226	1.86			
30	-.113	-.209	1.85	-.094	-.164	1.74			
50	-.032	-.057	1.80	-.081	-.143	1.77			
1J	-.175	-.313	1.79	-.071	-.114	1.61			
3J	-.056	-.102	1.82	-.049	-.081	1.67			
5J	-.014	-.013	.96	-.035	.001	-.02			
1T	-.052	-.087	1.69	-.021	-.029	1.43			
2T	-.017			-.008					
4T	-.018			-.006					
5T	-.055	-.087	1.58	-.017	-.032	1.84			

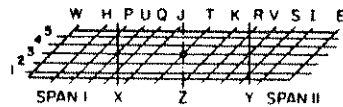


**TABLE 19C**

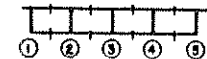
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

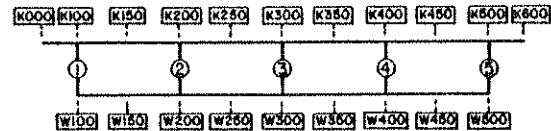
NORMALIZED POINT LOADS AT  
2C+3C

DEFLECTION AT POINT	1C+4C			2C+3C			*****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.012	-.019	1.59	-.040	-.052	1.28			
3K	-.057	-.094	1.66	-.048	-.074	1.54			
5K	-.178	-.304	1.71	-.064	-.110	1.73			
1P	-.029	-.051	1.75	-.090	-.140	1.55			
3R	-.113	-.189	1.68	-.091	-.148	1.64			
1Y	-.073	-.136	1.88	-.149	-.256	1.72			
2Y	-.104			-.133					
3Y	-.151	-.222	1.47	-.114	-.167	1.46			
4Y	-.196			-.094					
5Y	-.239	-.427	1.79	-.088	-.155	1.76			
1V	-.056	-.107	1.90	-.133	-.225	1.69			
5V	-.256	-.454	1.78	-.092	-.171	1.86			
3S	-.154	-.268	1.74	-.108	-.185	1.72			
5S	-.217	-.377	1.74	-.075	-.144	1.93			
1I	-.064	-.114	1.79	-.126	-.216	1.71			
3I	-.116	-.197	1.70	-.072	-.123	1.71			
5I	-.142	-.245	1.72	-.045	-.088	1.95			
LOAD PX	-41.2	-41.2		-41.2	-41.2				
LOAD PY	-41.2	-41.2		-41.2	-41.2				
ACTUAL PX		-41.2			-41.2				
ACTUAL PY		-41.2			-41.2				

**TABLE 19D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

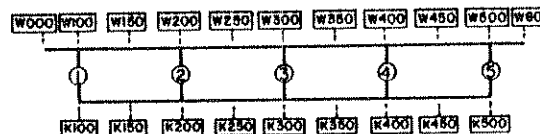
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	1C+4C			NORMALIZED POINT LOADS AT 2C+3C			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-63	-673	-123	-60	-487	-83			
K	K100	-81	-129	-150	-67	-87	-100			
K	K150	-77	-201	-122	-56	-157	-80			
K	K200	-78	-87	-98	-61	-54	-63			
K	K250	-82	-91	-94	-54	-59	-59			
K	K300	-85	-116	-93	-48	-79	-59			
K	K350	-78	-71	-83	-55	-46	-56			
K	K400	-73	-95	-68	-58	-84	-54			
K	K450	-69	-53	-60	-60	-52	-59			
K	K500	-80	-59	-54	-71	-63	-58			
K	K600	-70	-17	-17	-59	-21	-21			
W	W100	177	315	293	165	252	231			
W	W150	238	257	242	175	185	175			
W	W200	281	298	310	210	215	231			
W	W250	301	168	282	197	220	202			
W	W300	320	400	391	186	283	272			
W	W350	294	250	242	213	205	207			
W	W400	278	266	267	230	209	207			
W	W450	238	226	221	214	220	225			
W	W500	217	119	120	191	142	150			
LOAD	PX (KIPS)	-41.2	-41.2		-41.2	-41.2				
LOAD	PY (KIPS)	-41.2	-41.2		-41.2	-41.2				
ACTUAL	PX (KIPS)		-41.2			-41.2				
ACTUAL	PY (KIPS)		-41.2			-41.2				

**TABLE 19E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

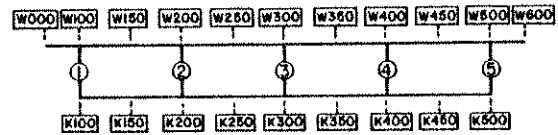
TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1C+4C			NORMALIZED POINT LOADS AT 2C+3C			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	127	205	274	107	196	128			
W	W100	127	274	273	107	128	127			
W	W150	140	195	200	116	111	113			
W	W200	194	244	246	160	151	152			
W	W250	182	215	211	152	194	185			
W	W300	204	278	264	171	235	195			
W	W350	226	248	267	185	203	214			
W	W400	232	325	313	187	242	243			
W	W450	235	246	220	184	251	227			
W	W500	301	258	260	232	236	232			
W	W600	301	244	244	232	194	194			
K	K100	-56	-115	-115	-45	-57	-57			
K	K150	-66	-187	-181	-55	-195	-160			
K	K200	-81	-115	-121	-68	-76	-85			
K	K250	-92	-111	-102	-77	-117	-99			
K	K300	-120	-114	-123	-100	-152	-140			
K	K350	-132	-149	-141	-107	-103	-126			
K	K400	-137	-138	-139	-111	-149	-105			
K	K450	-134	-138	-138	-106	-147	-164			
K	K500	-148	-152	-152	-115	-122	-120			
LOAD	PX (KIPS)	-41.2	-41.2		-41.2	-41.2				
LOAD	PY (KIPS)	-41.2	-41.2		-41.2	-41.2				
ACTUAL	PX (KIPS)		-41.2			-41.2				
ACTUAL	PY (KIPS)		-41.2			-41.2				

TABLE 19F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

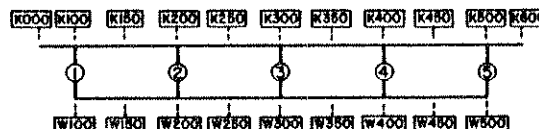
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1C+4C			NORMALIZED POINT LOADS AT 2C+3C			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	293	204	204	250	86	215			
W	W100	293	204	201	250	215	215			
W	W150	228	265	257	195	268	256			
W	W200	225	246	255	195	321	325			
W	W250	221	225	215	187	242	272			
W	W300	201	279	276	170	216	219			
W	W350	150	164	182	121	142	150			
W	W400	192	236	231	146	160	150			
W	W450	134	265	281	104	127	124			
W	W500	115	187	191	94	74	90			
W	W600	115	265	265	94	99	99			
K	K100	-143	-208	-212	-126	-159	-157			
K	K150	-129	-243	-214	-114	-160	-173			
K	K200	-132	-152	-172	-116	-163	-131			
K	K250	-128	-137	-135	-109	-127	-149			
K	K300	-118	-152	-107	-100	-178	-166			
K	K350	-91	-72	-89	-73	-148	-132			
K	K400	-80	-111	-81	-62	-71	-75			
K	K450	-63	-81	-87	-50	-67	-65			
K	K500	-50	-79	-78	-40	-48	-48			
LOAD	PX (KIPS)	-41.2	-41.2		-41.2	-41.2				
LOAD	PY (KIPS)	-41.2	-41.2		-41.2	-41.2				
ACTUAL	PX (KIPS)		-41.2			-41.2				
ACTUAL	PY (KIPS)		-41.2			-41.2				

**TABLE 19G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

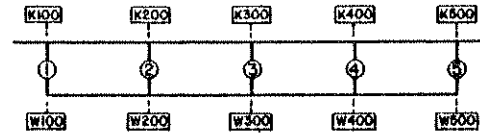
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1C+4C			NORMALIZED POINT LOADS AT 2C+7C			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-61	-42	-42	-84	-77	-77			
K	K100	-73	-54	-54	-114	-100	-100			
K	K150	-64	-55	-65	-79	-92	-95			
K	K200	-70	-88	-88	-83	-113	-116			
K	K250	-76	-72	-76	-70	-68	-83			
K	K300	-91	-92	-93	-73	-65	-65			
K	K350	-89	-78	-82	-59	-44	-45			
K	K400	-103	-109	-112	-54	-54	-55			
K	K450	-99	-111	-128	-49	-53	-63			
K	K500	-138	-141	-142	-56	-53	-54			
K	K600	-104	-179	-179	-47	-59	-59			
W	W100	198	300	306	345	541	539			
W	W150	214	201	193	288	280	269			
W	W200	261	295	290	323	307	305			
W	W250	284	256	263	268	242	260			
W	W300	342	0	302	273	0	235			
W	W350	327	287	302	211	169	180			
W	W400	368	373	370	185	239	233			
W	W450	323	328	368	148	153	154			
W	W500	361	433	452	128	169	182			
LOAD	PX (KIPS)	-41.2	-41.2		-41.2	-41.2				
LOAD	PY (KIPS)	-41.2	-41.2		-41.2	-41.2				
ACTUAL	PX (KIPS)		-41.2			-41.2				
ACTUAL	PY (KIPS)		-41.2			-41.2				

**TABLE 19H**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



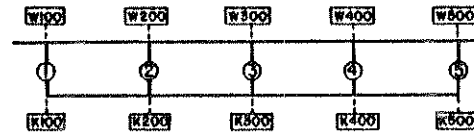
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1C+4C			2C+3C			2C+3C		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-46	-33		-6	-14				
K	K200	-56	-62		-12	-24				
K	K300	-66	-62		-28	-25				
K	K400	-63	-81		-57	-80				
K	K500	-76	-57		-75	-85				
W	W100	55	54		5	25				
W	W200	73	229		16	117				
W	W300	79	208		35	65				
W	W400	76	177		71	258				
W	W500	82	244		86	376				
SECTION F										
K	K100	-130	-123		-42	-41				
K	K200	-94	-150		-47	-70				
K	K400	-75	-115		-56	-90				
K	K500	-59	-46		-82	-76				
W	W100	161	359		43	122				
W	W200	91	315		59	138				
W	W400	0	257		72	250				
W	W500	0	289		98	318				

**TABLE 191**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



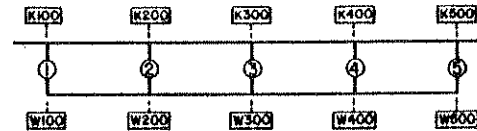
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1C+4C			2C+3C					
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	23	-45		-26	-11				
W	W200	56	-16		-5	1				
W	W300	94	179		12	86				
W	W400	73	199		36	124				
W	W500	21	251		59	205				
K	K100	-28	404		26	63				
K	K200	117	18		4	-8				
K	K300	104	-62		-15	-20				
K	K400	-67	-64		-40	-72				
K	K500	-88	-122		-62	-86				
SECTION K										
W	W100	79	167		64	161				
W	W200	52	132		34	112				
W	W300	20	91		7	33				
W	W400	-21	-32		-7	14				
W	W500	-50	-102		-25	-22				
K	K100	-81	-108		-69	-124				
K	K200	-61	-84		-39	-49				
K	K300	-25	-42		-9	-26				
K	K400	26	21		6	-6				
K	K500	57	123		25	30				

TABLE 19J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR VEHICLE LOADS  
 APPLIED AFTER 30 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1C+4C			NORMALIZED POINT LOADS AT 2C+3C			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-49	-65		-65	-98				
K	K200	-62	-78		-70	-85				
K	K400	-97	-101		-50	-50				
K	K500	-115	-90		-44	-42				
W	W100	52	148		70	190				
W	W200	75	219		88	208				
W	W400	123	470		61	233				
W	W500	135	531		47	183				
SECTION I										
K	K100	-73	-44		-86	-57				
K	K200	-67	-78		-50	-60				
K	K300	-62	-65		-24	-15				
K	K400	-50	-45		-12	-12				
K	K500	-38	-29		-8	-15				
W	W100	77	146		101	214				
W	W200	76	234		64	197				
W	W300	76	234		31	151				
W	W400	65	173		17	67				
W	W500	46	62		8	30				



**TABLE 19K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KST COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1C+4C			
		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT

SECTION	GIRDER	2C+3C			
		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT

SECTION	GIRDER	THEORY				EXPERIMENTAL			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT

MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH

A	1	24.2	19.3	21.8	19.9	19.7	19.7	16.8	16.1
A	2	28.0	21.7	32.5	23.7	20.8	20.8	23.9	21.5
A	3	29.7	22.5	37.4	27.3	18.1	18.1	27.5	24.8
A	4	26.3	19.9	31.0	22.6	20.6	20.6	26.6	23.9
A	5	23.7	17.9	14.5	10.5	20.8	20.8	16.3	14.7
A	SUM	131.9		137.2		109.1		111.0	
D	1	21.5	14.2	24.7	14.7	31.1	25.8	40.0	27.6
D	2	25.1	16.5	32.8	19.6	28.5	23.6	41.6	28.7
D	3	31.4	20.7	34.8	20.8	25.0	20.8	26.7	18.4
D	4	35.4	23.4	38.5	23.9	19.4	16.1	22.0	15.1
D	5	38.0	25.1	36.7	21.9	16.5	13.7	14.7	10.2
D	SUM	151.5		167.5		120.6		145.0	

MOMENTS ABOUT TENSION FLANGE STEEL

A	1	16.7	12.7	46.6	30.7	14.4	14.5	30.7	28.5
A	2	33.4	25.4	34.9	23.9	24.0	24.2	22.7	20.7
A	3	33.9	25.9	31.2	20.6	21.2	21.3	19.7	18.3
A	4	30.2	23.0	24.1	15.9	24.8	24.9	19.3	17.9
A	5	17.0	12.9	14.9	9.9	15.0	15.1	15.7	14.6
A	SUM	131.2		151.7		99.4		107.6	
D	1	14.8	9.9	19.7	10.5	24.2	20.4	34.3	23.4
D	2	24.2	18.9	32.5	17.2	33.4	28.1	41.7	28.5
D	3	35.3	23.6	34.5	18.3	27.8	23.4	26.0	17.8
D	4	41.9	29.3	44.2	23.4	21.9	18.4	21.8	14.9
D	5	29.3	19.6	57.6	30.6	11.4	9.6	22.7	15.5
D	SUM	149.5		188.5		118.7		146.5	

LOAD	PX (KIPS)	-41.2	-41.2	-41.2	-41.2
LOAD	PY (KIPS)	-41.2	-41.2	-41.2	-41.2
ACTUAL	PX (KIPS)		-41.2		-41.2
ACTUAL	PY (KIPS)		-41.2		-41.2

TABLE 19L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR VEHICLE LOADS  
APPLIED AFTER 30 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

1C+4C  
\*\*\*\*\*

SECTION	GIRDER	THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT

NORMALIZED POINT LOADS AT  
2C+3C  
\*\*\*\*\*

SECTION	GIRDER	THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT

\*\*\*\*\*

SECTION	GIRDER	THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT

MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS

A	1	20.0	15.2	34.6	24.0	16.8	16.8	27.9	22.0
A	2	31.0	23.6	33.6	23.3	22.6	22.7	22.9	21.1
A	3	32.0	24.4	34.0	23.6	19.8	19.9	23.3	21.4
A	4	28.5	21.7	27.2	18.9	22.9	23.0	22.6	20.8
A	5	19.9	15.1	14.6	10.2	17.6	17.6	15.9	14.6
A	SUM	131.5		144.0		99.7		108.7	
D	1	17.7	11.8	22.3	12.6	27.3	22.8	37.3	25.6
D	2	26.8	17.8	32.7	18.4	31.3	26.1	41.7	28.6
D	3	33.6	22.3	34.6	19.5	26.6	22.3	26.4	18.1
D	4	39.1	26.0	41.1	23.2	20.8	17.4	21.9	15.0
D	5	33.1	22.0	46.5	26.2	13.6	11.4	18.4	12.7
D	SUM	150.4		177.2		119.5		145.6	

MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS

A	1	20.1	15.3	30.8	22.7	16.7	16.8	20.9	20.1
A	2	31.0	23.6	31.0	22.8	22.6	22.7	21.7	20.8
A	3	32.0	24.4	33.0	24.3	19.8	19.9	23.5	22.6
A	4	28.5	21.6	27.0	19.9	22.9	23.0	22.8	21.9
A	5	19.9	15.1	14.0	10.3	17.6	17.6	15.2	14.6
A	SUM	131.5		135.7		99.6		104.1	
D	1	17.8	11.9	23.4	13.7	27.3	22.8	38.2	26.7
D	2	26.8	17.8	32.3	18.9	31.2	26.1	41.0	28.6
D	3	33.5	22.3	34.2	20.0	26.5	22.2	26.1	18.2
D	4	39.0	26.0	39.3	23.0	20.7	17.4	21.5	15.0
D	5	33.1	22.1	41.5	24.3	13.7	11.5	16.5	11.5
D	SUM	150.2		170.5		119.4		143.3	

LOAD	PX (KIPS)	-41.2		-41.2		-41.2		-41.2	
LOAD	PY (KIPS)	-41.2		-41.2		-41.2		-41.2	
ACTUAL	PX (KIPS)			-41.2				-41.2	
ACTUAL	PY (KIPS)			-41.2				-41.2	

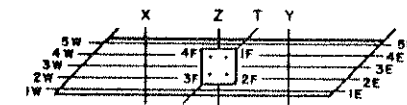
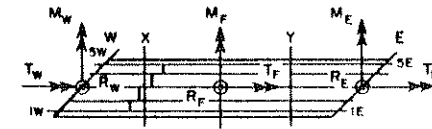
**TABLE 20A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	CONDITIONING LOAD STRESS LEVEL					
	24 KSI		30 KSI		40 KSI	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	19.37	16.61	19.37	14.37	19.37	12.58
2E	10.53	10.99	10.53	10.68	10.53	10.25
3E	5.64	4.29	5.64	3.94	5.64	3.01
4E	2.11	1.43	2.11	4.70	2.11	5.23
5E	-1.07	.19	-1.07	1.17	-1.07	1.38
1F	32.21	35.72	32.21	34.06	32.21	30.26
2F	32.18	31.21	32.18	31.40	32.18	30.43
3F	32.22	34.55	32.22	36.42	32.22	38.70
4F	32.25	33.72	32.25	33.09	32.25	33.11
1W	-1.11	-0.35	-1.11	.57	-1.11	1.20
2W	2.11	2.76	2.11	3.48	2.11	4.14
3W	5.70	7.30	5.70	7.96	5.70	8.22
4W	10.59	10.26	10.59	9.66	10.59	8.95
5W	18.29	16.20	18.29	14.14	18.29	11.51
RE	35.57	35.50	35.57	34.94	35.57	32.45
RF	128.86	135.21	128.86	134.97	128.86	132.50
RW	35.57	36.26	35.57	35.80	35.57	34.20
SUMR	200.00	206.97	200.00	205.71	200.00	199.15
PX	-100.00	-101.53	-100.00	-100.03	-100.00	-102.54
PY	-100.00	-98.47	-100.00	-99.97	-100.00	-97.46
SUMP	-200.00	-200.00	-200.00	-200.00	-200.00	-200.00
SUMR/SUMP	1.00	1.03	1.00	1.03	1.00	1.00
TW=-MW	121.55	104.84	121.55	95.69	121.55	64.97
MF	.10	2.00	.10	6.10	.10	16.68
TF	.09	5.53	.09	-1.01	.09	-8.63
TE=-ME	-121.64	-103.86	-121.64	-83.35	-121.64	-70.53
ACTUAL PX		-31.98		-47.76		-74.51
ACTUAL PY		-31.01		-47.73		-70.82



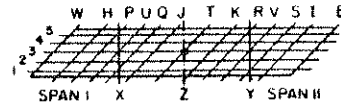
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 20B

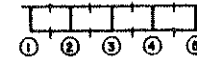
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

CONDITIONING LOAD STRESS LEVEL

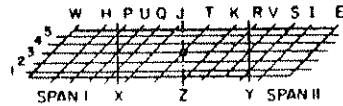
DEFLECTION AT POINT	24 KSI			30 KSI			40 KSI		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.249	-.349	1.40	-.249	-.470	1.89	-.249	-.629	2.53
3H	-.261	-.358	1.37	-.278	-.490	1.77	-.261	-.632	2.42
5H	-.278	-.349	1.26	-.261	-.457	1.75	-.278	-.610	2.20
1P	-.396	-.566	1.42	-.396	-.749	1.89	-.396	-.969	2.45
3P	-.381	-.527	1.38	-.381	-.714	1.87	-.381	-.905	2.38
1X	-.489	-.672	1.37	-.489	-.909	1.86	-.489	-1.153	2.36
2X	-.447			-.447			-.447		
3X	-.410	-.562	1.37	-.410	-.763	1.86	-.410	-.976	2.38
4X	-.374			-.374			-.374		
5X	-.343	-.462	1.35	-.343	-.625	1.82	-.343	-.804	2.35
1U	-.489	-.684	1.40	-.489	-.924	1.89	-.489	-1.172	2.40
5U	-.273	-.372	1.37	-.273	-.494	1.81	-.273	-.646	2.37
3O	-.305	-.411	1.35	-.305	-.548	1.80	-.305	-.714	2.34
5O	-.153	-.200	1.30	-.153	-.272	1.77	-.153	-.352	2.29
1J	-.352	-.455	1.29	-.352	-.620	1.76	-.352	-.789	2.24
3J	-.147	-.198	1.35	-.147	-.259	1.77	-.147	-.336	2.29
5J	-.060	-.012	.21	-.060	-.011	.19	-.060	.004	-.06
1T	-.095	-.122	1.28	-.095	-.152	1.59	-.095	-.201	2.11
2T	-.032			-.032			-.032		
4T	-.032			-.032			-.032		
5T	-.095	-.131	1.37	-.095	-.166	1.74	-.095	-.155	1.62

**TABLE 20C**

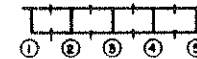
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

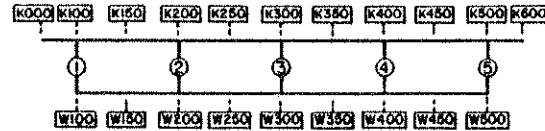
CONDITIONING LOAD STRESS LEVEL

DEFLECTION AT POINT	24 KSI			30 KSI			40 KSI		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.061	-.065	1.07	-.061	-.107	1.71	-.061	-.146	2.41
3K	-.146	-.200	1.37	-.146	-.275	1.89	-.146	-.302	2.09
5K	-.353	-.475	1.35	-.353	-.604	1.71	-.353	-.702	1.99
1P	-.156	-.205	1.32	-.156	-.283	1.82	-.156	-.347	2.23
3P	-.302	-.412	1.36	-.302	-.549	1.82	-.302	-.640	2.12
1Y	-.346	-.468	1.35	-.346	-.632	1.83	-.346	-.773	2.23
2Y	-.374			-.374			-.374		
3Y	-.407	-.520	1.28	-.407	-.750	1.84	-.407	-.740	1.82
4Y	-.447			-.447			-.447		
5Y	-.491	-.673	1.37	-.491	-.993	1.82	-.491	-1.036	2.11
1V	-.277	-.363	1.31	-.277	-.505	1.82	-.277	-.622	2.24
5V	-.492	-.685	1.39	-.492	-.998	1.85	-.492	-1.061	2.15
3S	-.379	-.526	1.39	-.379	-.709	1.87	-.379	-.829	2.19
5S	-.397	-.566	1.42	-.397	-.748	1.88	-.397	-.811	2.04
1I	-.279	-.362	1.30	-.279	-.484	1.77	-.279	-.589	2.08
3I	-.260	-.354	1.36	-.260	-.491	1.89	-.260	-.583	2.24
5I	-.250	-.362	1.45	-.250	-.487	1.94	-.250	-.574	2.29
LOAD PX	-100.0	-101.5		-100.0	-100.0		-100.0	-102.5	
LOAD PY	-100.0	-98.5		-100.0	-100.0		-100.0	-97.5	
ACTUAL PX		-32.0			-47.8			-74.5	
ACTUAL PY		-31.0			-47.7			-70.8	

**TABLE 20D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

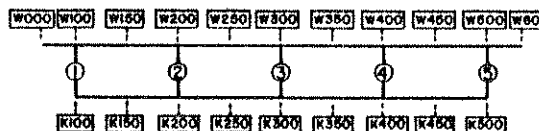
1 KIP = 4.448 kN  
1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		24 KSI			30 KSI			40 KSI		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-241	-1130	-365	-241	-1273	-429	-241	-1412	-477
K	K100	-285	-371	-387	-285	-431	-441	-285	-487	-524
K	K150	-245	-320	-301	-245	-330	-314	-245	-444	-377
K	K200	-248	-241	-247	-248	-236	-247	-248	-257	-283
K	K250	-247	-228	-241	-247	-255	-255	-247	-290	-283
K	K300	-250	-282	-241	-250	-309	-272	-250	-355	-304
K	K350	-246	-200	-225	-246	-224	-255	-246	-250	-290
K	K400	-244	-247	-212	-244	-268	-232	-244	-306	-262
K	K450	-239	-219	-234	-239	-238	-251	-239	-261	-375
K	K500	-281	-241	-231	-281	-257	-253	-281	-286	-280
K	K600	-239	-79	-79	-239	-85	-85	-239	-119	-119
W	W100	692	889	847	692	1055	1003	692	1127	1103
W	W150	777	733	752	777	814	829	777	842	901
W	W200	866	733	771	866	848	886	866	872	909
W	W250	891	647	743	891	829	821	891	869	864
W	W300	927	943	933	927	1087	1077	927	1149	1130
W	W350	923	625	622	923	862	798	923	956	890
W	W400	925	987	949	925	1195	1152	925	1224	1194
W	W450	846	723	736	846	852	831	846	880	867
W	W500	780	292	358	780	536	590	780	700	730
LOAD	PX (KIPS)	-100.0	-101.5		-100.0	-100.0		-100.0	-102.5	
LOAD	PY (KIPS)	-100.0	-98.5		-100.0	-100.0		-100.0	-97.5	
ACTUAL	PX (KIPS)		-32.0			-47.8			-74.5	
ACTUAL	PY (KIPS)		-31.0			-47.7			-70.8	

TABLE 20E

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

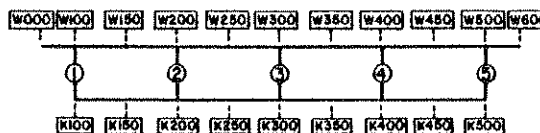
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

		CONDITIONING LOAD STRESS LEVEL								
		24 KSI			30 KSI			40 KSI		
GAGE TYPE	GAGE LOC.	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
W	W000	386	415	467	386	580	529	386	717	679
W	W100	386	460	454	386	529	536	386	679	679
W	W150	405	333	327	405	446	479	495	524	549
W	W200	537	415	422	537	615	609	537	754	749
W	W250	492	441	422	492	619	598	492	694	679
W	W300	528	539	539	528	818	656	528	915	750
W	W350	574	504	546	574	599	632	574	649	694
W	W400	587	673	652	587	720	714	587	821	819
W	W450	591	558	504	591	657	622	591	747	707
W	W500	751	530	531	751	668	663	751	747	738
W	W600	751	476	476	751	619	619	751	744	744
K	K100	-167	-177	-177	-167	-236	-238	-167	-249	-250
K	K150	-190	-304	-298	-190	-335	-320	-190	-372	-360
K	K200	-225	-231	-241	-225	-230	-249	-225	-247	-261
K	K250	-251	-304	-285	-251	-337	-291	-251	-357	-324
K	K300	-313	-333	-346	-313	-343	-362	-313	-393	-407
K	K350	-337	-336	-339	-337	-345	-362	-337	-366	-381
K	K400	-349	-320	-314	-349	-333	-309	-349	-357	-338
K	K450	-338	-368	-371	-338	-309	-318	-338	-422	-434
K	K500	-367	-323	-323	-367	-368	-366	-367	-386	-385
LOAD	PX (KIPS)	-100.0	-101.5		-100.0	-100.0		-100.0	-102.5	
LOAD	PY (KIPS)	-100.0	-98.5		-100.0	-100.0		-100.0	-97.5	
ACTUAL	PX (KIPS)		-32.0			-47.8			-74.5	
ACTUAL	PY (KIPS)		-31.0			-47.7			-70.8	

**TABLE 20F**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

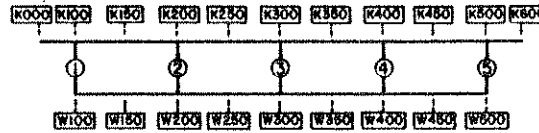
GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		24 KSI			30 KSI			40 KSI		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	754	295	295	754	437	437	754	579	579
W	W100	754	419	417	754	626	626	754	708	706
W	W150	593	600	577	593	699	687	593	787	773
W	W200	588	635	650	588	779	793	588	869	875
W	W250	574	514	558	574	592	617	574	678	677
W	W300	527	504	512	527	770	763	527	770	767
W	W350	409	339	387	409	515	527	409	591	579
W	W400	536	444	433	536	609	603	536	759	735
W	W450	405	431	460	405	565	596	405	671	609
W	W500	387	279	285	387	418	427	387	719	728
W	W600	387	384	384	387	550	550	387	785	785
K	K100	-369	-355	-355	-369	-406	-406	-369	-477	-477
K	K150	-340	-441	-444	-340	-498	-500	-340	-560	-560
K	K200	-350	-358	-355	-350	-362	-358	-350	-377	-377
K	K250	-337	-349	-358	-337	-364	-372	-337	-385	-388
K	K300	-312	-381	-368	-312	-427	-414	-312	-458	-447
K	K350	-250	-298	-304	-250	-343	-349	-250	-372	-381
K	K400	-225	-222	-219	-225	-234	-232	-225	-249	-246
K	K450	-190	-219	-219	-190	-226	-226	-190	-231	-232
K	K500	-168	-158	-158	-168	-184	-184	-168	-216	-216
LOAD	PX (KIPS)	-100.0	-101.5		-100.0	-100.0		-100.0	-102.5	
LOAD	PY (KIPS)	-100.0	-98.5		-100.0	-100.0		-100.0	-97.5	
ACTUAL	PX (KIPS)		-32.0			-47.8			-74.5	
ACTUAL	PY (KIPS)		-31.0			-47.7			-70.8	



**TABLE 20G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

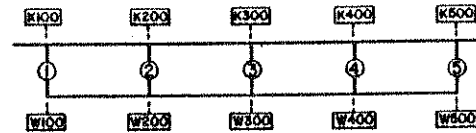
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		24 KSI			30 KSI			40 KSI		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
K	K000	-237	-168	-168	-237	-182	-182	-237	-192	-192
K	K100	-270	-206	-209	-270	-213	-215	-270	-229	-232
K	K150	-239	-190	-209	-239	-205	-222	-239	-222	-243
K	K200	-244	-219	-219	-244	-232	-232	-244	-247	-249
K	K250	-245	-196	-215	-245	-211	-228	-245	-224	-242
K	K300	-248	-209	-211	-248	-219	-222	-248	-236	-237
K	K350	-248	-193	-196	-248	-207	-211	-248	-218	-228
K	K400	-249	-203	-214	-249	-217	-227	-249	-250	-260
K	K450	-246	-203	-209	-246	-226	-232	-246	-260	-266
K	K500	-288	-241	-234	-288	-257	-251	-288	-287	-282
K	K600	-245	-276	-276	-245	-303	-303	-245	-403	-403
W	W100	772	946	949	772	1015	1013	772	968	970
W	W150	843	692	692	843	747	772	843	766	813
W	W200	924	866	854	924	942	958	924	934	943
W	W250	919	793	774	919	829	875	919	832	831
W	W300	922	0	776	922	0	840	922	0	845
W	W350	891	579	593	891	638	689	891	672	722
W	W400	868	628	627	868	726	714	868	714	714
W	W450	783	438	870	783	561	909	783	656	791
W	W500	705	594	591	705	582	601	705	713	741
LOAD	PX (KIPS)	-100.0	-101.5		-100.0	-100.0		-100.0	-102.5	
LOAD	PY (KIPS)	-100.0	-98.5		-100.0	-100.0		-100.0	-97.5	
ACTUAL	PX (KIPS)		-32.0			-47.8			-74.5	
ACTUAL	PY (KIPS)		-31.0			-47.7			-70.8	

TABLE 20H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



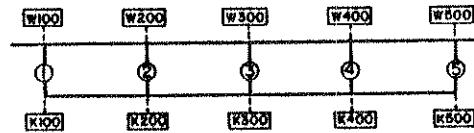
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		24 KSI			30 KSI			40 KSI		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-49	-50		-49	-62		-49	-77	
K	K200	-65	-85		-65	-100		-65	-119	
K	K300	-93	-92		-93	-100		-93	-114	
K	K400	-131	-136		-131	-157		-131	-192	
K	K500	-216	-174		-216	-182		-216	-195	
W	W100	56	73		56	138		56	200	
W	W200	86	238		86	383		86	444	
W	W300	118	260		118	358		118	436	
W	W400	162	304		162	460		162	608	
W	W500	236	562		236	678		236	792	
SECTION F										
K	K100	-179	-158		-179	-186		-179	-220	
K	K200	-199	-222		-199	-251		-199	-304	
K	K400	-292	-371		-292	-421		-292	-514	
K	K500	-224	-187		-224	-217		-224	-232	
W	W100	194	0		194	473		194	611	
W	W200	250	393		250	592		250	741	
W	W400	359	670		359	791		359	800	
W	W500	250	987		250	1072		250	1067	

**TABLE 201**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 24 KST, 30 KST, 40 KST  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



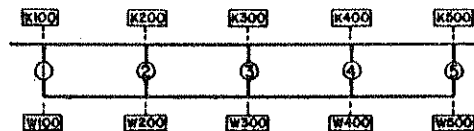
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		24 KST			30 KST			40 KST		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-114	-69		-114	-62		-114	-42	
W	W200	-4	-3		-4	2		-4	147	
W	W300	75	238		75	511		75	477	
W	W400	146	374		146	437		146	550	
W	W500	216	511		216	626		216	776	
K	K100	121	165		121	471		121	759	
K	K200	3	-15		3	-18		3	16	
K	K300	-89	-120		-89	-85		-89	-122	
K	K400	-172	-171		-172	-171		-172	-184	
K	K500	-227	-269		-227	-274		-227	-276	
SECTION K										
W	W100	217	365		217	402		217	602	
W	W200	146	260		146	421		146	529	
W	W300	74	114		74	290		74	426	
W	W400	-3	12		-3	-31		-3	85	
W	W500	-112	-92		-112	-96		-112	-136	
K	K100	-230	-231		-230	-259		-230	-320	
K	K200	-172	-187		-172	-182		-172	-202	
K	K300	-88	-95		-88	-111		-88	-133	
K	K400	2	-19		2	-31		2	-16	
K	K500	118	95		118	180		118	181	

TABLE 20J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		24 KSI			30 KSI			40 KSI		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-233	-225		-233	-263		-233	-301	
K	K200	-295	-358		-295	-400		-295	-520	
K	K400	-198	-177		-198	-192		-198	-209	
K	K500	-180	-133		-180	-152		-180	-161	
W	W100	263	520		263	705		263	861	
W	W200	362	774		362	929		362	1033	
W	W400	249	822		249	896		249	955	
W	W500	195	892		195	984		195	999	
SECTION I										
K	K100	-214	-120		-214	-123		-214	-126	
K	K200	-130	-120		-130	-123		-130	-136	
K	K300	-93	-69		-93	-71		-93	-81	
K	K400	-65	-50		-65	-52		-65	-66	
K	K500	-49	-41		-49	-56		-49	-61	
W	W100	232	234		232	710		232	437	
W	W200	161	374		161	515		161	549	
W	W300	119	263		119	418		119	489	
W	W400	87	180		87	261		87	301	
W	W500	56	57		56	249		56	264	

**TABLE 20K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

CONDITIONING LOAD STRESS LEVEL

SECTION	GIRDER	24 KSI				30 KSI				40 KSI			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	82.7	19.3	77.5	17.0	82.7	19.3	76.7	16.5	82.7	19.3	77.8	16.9
A	2	87.9	20.6	100.6	22.1	87.9	20.6	97.8	21.1	87.9	20.6	95.0	20.6
A	3	88.8	20.8	106.5	23.4	88.8	20.8	107.4	23.1	88.8	20.8	106.2	23.0
A	4	86.7	20.3	118.0	25.9	86.7	20.3	122.8	26.5	86.7	20.3	119.7	25.9
A	5	81.5	19.1	52.0	11.6	81.5	19.1	50.7	12.9	81.5	19.1	62.7	13.6
A	SUM	427.5		455.4		427.5		464.3		427.5		461.4	
D	1	81.0	18.9	88.4	20.0	81.0	18.9	89.0	19.6	81.0	18.9	85.6	19.9
D	2	86.5	20.2	111.1	25.1	86.5	20.2	115.3	25.4	86.5	20.2	109.4	25.4
D	3	88.3	20.7	94.8	21.4	88.3	20.7	97.5	21.5	88.3	20.7	93.3	21.7
D	4	88.1	20.6	81.4	18.4	88.1	20.6	83.8	18.5	88.1	20.6	76.7	17.8
D	5	83.6	19.6	67.2	15.2	83.6	19.6	68.2	15.0	83.6	19.6	65.7	15.3
D	SUM	427.5		443.0		427.5		453.8		427.5		430.8	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	61.6	14.5	131.2	28.4	61.6	14.5	137.7	29.4	61.6	14.5	141.2	30.1
A	2	102.5	24.1	94.2	20.4	102.5	24.1	90.1	19.2	102.5	24.1	90.9	19.4
A	3	99.9	23.5	87.4	18.9	99.9	23.5	90.8	19.4	99.9	23.5	89.9	19.0
A	4	100.5	23.6	81.1	17.6	100.5	23.6	82.1	17.5	100.5	23.6	80.9	17.3
A	5	60.9	14.3	68.0	14.7	60.9	14.3	67.9	14.5	60.9	14.3	66.7	14.2
A	SUM	425.2		461.8		425.2		468.5		425.2		468.6	
D	1	60.4	14.2	77.9	17.6	60.4	14.2	79.8	17.3	60.4	14.2	73.0	17.0
D	2	100.2	23.6	90.2	20.3	100.2	23.6	92.1	20.2	100.2	23.6	84.4	19.6
D	3	99.4	23.4	87.5	19.7	99.4	23.4	89.4	19.6	99.4	23.4	81.0	18.8
D	4	102.8	24.2	89.0	20.1	102.8	24.2	92.2	20.2	102.8	24.2	89.7	20.8
D	5	62.5	14.7	99.0	22.3	62.5	14.7	103.1	22.6	62.5	14.7	102.7	23.8
D	SUM	425.3		443.6		425.3		456.6		425.3		430.7	
LOAD	PX (KIPS)	-100.0		-101.5		-100.0		-100.0		-100.0		-102.5	
LOAD	PY (KIPS)	-100.0		-98.5		-100.0		-100.0		-100.0		-97.5	
ACTUAL	PX (KIPS)			-32.0				-47.8				-74.5	
ACTUAL	PY (KIPS)			-31.0				-47.7				-70.8	

TABLE 20L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR 24 KSI, 30 KSI, 40 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

CONDITIONING LOAD STRESS LEVEL

SECTION	GIRDER	24 KSI				30 KSI				40 KSI			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	70.9	16.6	106.1	23.2	70.9	16.6	109.0	23.3	70.9	16.6	111.5	24.1
A	2	96.1	22.5	96.7	21.2	96.1	22.5	93.3	20.1	96.1	22.5	92.4	19.9
A	3	95.0	22.3	95.7	20.9	95.0	22.3	98.1	21.2	95.0	22.3	96.4	20.8
A	4	94.4	22.2	97.6	21.3	94.4	22.2	101.0	21.8	94.4	22.2	98.3	21.2
A	5	69.9	16.4	60.9	13.3	69.9	16.4	63.6	13.7	69.9	16.4	64.6	13.9
A	SUM	426.2		456.9		426.2		464.0		426.2		463.2	
D	1	69.4	16.3	83.3	18.8	69.4	16.3	84.1	18.5	69.4	16.3	78.7	18.4
D	2	94.2	22.1	101.0	22.8	94.2	22.1	104.5	23.0	94.2	22.1	96.3	22.5
D	3	94.6	22.2	91.2	20.6	94.6	22.2	93.7	20.6	94.6	22.2	86.5	20.2
D	4	96.4	22.6	85.0	19.2	96.4	22.6	87.7	19.3	96.4	22.6	82.6	19.3
D	5	71.8	16.8	82.4	18.6	71.8	16.8	84.5	18.6	71.8	16.8	83.5	19.5
D	SUM	426.3		443.0		426.3		454.5		426.3		427.6	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	70.7	16.6	93.7	21.7	70.7	16.6	94.8	21.4	70.7	16.6	98.6	22.6
A	2	95.9	22.5	90.5	20.9	95.9	22.5	88.6	20.0	95.9	22.5	86.2	19.8
A	3	94.8	22.3	91.6	21.2	94.8	22.3	95.1	21.5	94.8	22.3	92.2	21.2
A	4	94.3	22.2	97.7	22.6	94.3	22.2	104.1	23.5	94.3	22.2	99.2	22.7
A	5	69.7	16.4	58.9	13.6	69.7	16.4	59.7	13.5	69.7	16.4	59.9	13.7
A	SUM	425.4		432.4		425.4		442.3		425.4		436.1	
D	1	69.3	16.3	83.6	19.2	69.3	16.3	85.3	18.9	69.3	16.3	78.0	18.9
D	2	94.0	22.1	103.4	23.7	94.0	22.1	108.5	24.1	94.0	22.1	97.8	23.7
D	3	94.4	22.2	90.5	20.8	94.4	22.2	94.1	20.9	94.4	22.2	85.5	20.7
D	4	96.2	22.6	81.6	18.7	96.2	22.6	84.7	18.8	96.2	22.6	77.4	18.7
D	5	71.6	16.8	76.8	17.6	71.6	16.8	78.0	17.3	71.6	16.8	74.2	18.0
D	SUM	425.5		435.9		425.5		450.6		425.5		412.9	
LOAD	PX (KIPS)	-100.0		-101.5		-100.0		-100.0		-100.0		-102.5	
LOAD	PY (KIPS)	-100.0		-98.5		-100.0		-100.0		-100.0		-97.5	
ACTUAL	PX (KIPS)			-32.0				-47.8				-74.5	
ACTUAL	PY (KIPS)			-31.0				-47.7				-70.8	

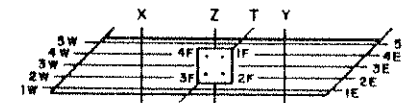
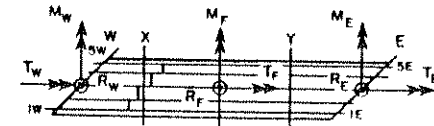
**TABLE 21A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS  
 TE = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	CONDITIONING LOAD STRESS LEVEL					
	50 KSI		60 KSI		*****	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	18.37	11.96	18.37	11.75		
2E	10.53	9.89	10.53	9.80		
3E	5.64	3.99	5.64	4.60		
4E	2.11	5.20	2.11	5.51		
5E	-1.07	1.89	-1.07	1.94		
1F	32.21	33.44	32.21	35.00		
2F	32.18	31.39	32.18	30.19		
3F	32.22	36.70	32.22	35.93		
4F	32.25	33.90	32.25	35.97		
1W	-1.11	1.20	-1.11	1.73		
2W	2.11	4.04	2.11	4.05		
3W	5.70	7.70	5.70	7.73		
4W	10.59	9.01	10.59	8.82		
5W	18.29	12.51	18.29	12.15		
RE	35.57	32.93	35.57	33.59		
RF	128.86	135.41	128.86	137.00		
RW	35.57	34.45	35.57	34.28		
SUMP	200.00	202.91	200.00	204.86		
PX	-100.00	-101.09	-100.00	-99.23		
PY	-100.00	-98.92	-100.00	-100.77		
SUMP	-200.00	-200.00	-200.00	-200.00		
SUMP/SUMP	1.00	1.01	1.00	1.02		
TW=-MW	121.55	70.93	121.55	68.95		
MF	.10	8.65	.10	9.91		
TF	.09	-1.11	.09	7.43		
TF=-ME	-121.64	-63.87	-121.64	-61.46		
ACTUAL PX		-103.70		-128.42		
ACTUAL PY		-101.48		-130.42		



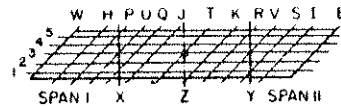
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 21B

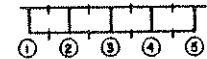
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I DEFLECTION AT POINT	CONDITIONING LOAD STRESS LEVEL								
	50 KSI			60 KSI			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.249	-.601	2.41	-.249	-.613	2.46			
3H	-.261	-.615	2.36	-.278	-.629	2.27			
5H	-.278	-.620	2.24	-.261	-.641	2.45			
1P	-.396	-.921	2.33	-.396	-.935	2.36			
3P	-.381	-.887	2.33	-.381	-.908	2.38			
1X	-.489	-1.109	2.27	-.489	-1.137	2.32			
2X	-.447			-.447					
3X	-.410	-.952	2.32	-.410	-.979	2.39			
4X	-.374			-.374					
5X	-.343	-.822	2.40	-.343	-.854	2.49			
1U	-.489	-1.127	2.30	-.489	-1.152	2.36			
5U	-.273	-.630	2.31	-.273	-.653	2.40			
3O	-.305	-.697	2.29	-.305	-.714	2.34			
5O	-.153	-.361	2.35	-.153	-.377	2.46			
1J	-.152	-.763	2.17	-.152	-.772	2.19			
3J	-.147	-.331	2.26	-.147	-.336	2.29			
5J	-.060	-.002	.03	-.060	-.002	.03			
1T	-.095	-.185	1.94	-.095	-.186	1.96			
2T	-.032			-.032					
4T	-.032			-.032					
5T	-.095	-.177	1.86	-.095	-.200	2.10			

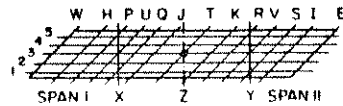


**TABLE 21C**

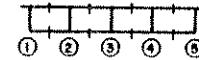
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

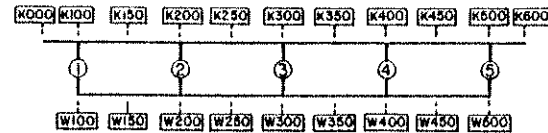
CONDITIONING LOAD STRESS LEVEL

DEFLECTION AT POINT	50 KSI			60 KSI			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1X	-.061	-.145	2.39	-.061	-.147	2.42			
3X	-.146	-.317	2.18	-.146	-.338	2.32			
5X	-.353	-.763	2.16	-.353	-.798	2.26			
1R	-.156	-.356	2.29	-.156	-.377	2.40			
3R	-.302	-.669	2.21	-.302	-.708	2.34			
1Y	-.346	-.786	2.27	-.346	-.828	2.39			
2Y	-.374			-.374					
3Y	-.407	-.935	2.30	-.407	-.993	2.42			
4Y	-.447			-.447					
5Y	-.491	-1.101	2.24	-.491	-1.159	2.36			
1V	-.277	-.629	2.27	-.277	-.660	2.38			
5V	-.492	-1.110	2.26	-.492	-1.161	2.36			
3S	-.379	-.859	2.27	-.379	-.900	2.38			
5S	-.397	-.914	2.30	-.397	-.955	2.40			
1I	-.279	-.591	2.12	-.279	-.618	2.22			
3I	-.260	-.597	2.29	-.260	-.623	2.39			
5I	-.250	-.609	2.44	-.250	-.632	2.53			
LOAD PX	-100.0	-101.1		-100.0	-99.2				
LOAD PY	-100.0	-98.2		-100.0	+100.8				
ACTUAL PX		-103.7			-128.4				
ACTUAL PY		-101.5			-130.4				

TABLE 21D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

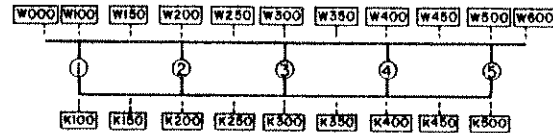
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		50 KSI			60 KSI			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-241	-1092	-425	-241	-928	-401			
K	K100	-285	-430	-451	-285	-406	-424			
K	K150	-245	-376	-343	-245	-371	-342			
K	K200	-248	-258	-275	-248	-268	-283			
K	K250	-247	-276	-275	-247	-271	-274			
K	K300	-250	-330	-289	-250	-312	-277			
K	K350	-246	-244	-276	-246	-240	-266			
K	K400	-244	-284	-252	-244	-274	-250			
K	K450	-239	-246	-257	-239	-244	-252			
K	K500	-281	-263	-259	-281	-251	-248			
K	K600	-239	-148	-148	-239	-163	-163			
W	W100	692	1062	1030	692	1080	1047			
W	W150	777	882	867	777	883	856			
W	W200	866	882	908	866	890	913			
W	W250	891	872	877	891	861	870			
W	W300	927	1141	1124	927	1155	1136			
W	W350	923	937	887	923	945	899			
W	W400	925	1217	1192	925	1200	1183			
W	W450	846	879	848	846	863	839			
W	W500	780	812	838	780	860	877			
LOAD	PX (KIPS)	-100.0	-101.1		-100.0	-99.2				
LOAD	PY (KIPS)	-100.0	-98.9		-100.0	-100.8				
ACTUAL	PX (KIPS)		-103.7			-128.4				
ACTUAL	PY (KIPS)		-101.5			-130.4				

**TABLE 21E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 50 KSI, 60 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

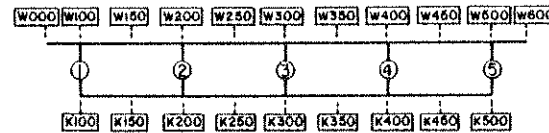
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

		CONDITIONING LOAD STRESS LEVEL								
		50 KSI			60 KSI					
GAGE TYPE	GAGE LOC.	***** THEORY	MEASR	ADJUST	***** THEORY	MEASR	ADJUST	***** THEORY	MEASR	ADJUST
W	W000	386	702	659	386	726	720			
W	W100	386	659	656	386	720	712			
W	W150	405	544	557	405	571	574			
W	W200	537	732	733	537	785	785			
W	W250	492	671	669	492	693	690			
W	W300	528	909	755	528	894	780			
W	W350	574	663	705	574	672	713			
W	W400	587	847	837	587	872	861			
W	W450	591	736	696	591	747	707			
W	W500	751	720	719	751	736	735			
W	W600	751	747	747	751	767	767			
K	K100	-167	-264	-265	-167	-278	-278			
K	K150	-190	-358	-348	-190	-343	-335			
K	K200	-225	-251	-263	-225	-248	-258			
K	K250	-251	-353	-324	-251	-350	-325			
K	K300	-313	-382	-397	-313	-393	-397			
K	K350	-337	-366	-375	-337	-370	-376			
K	K400	-349	-362	-348	-349	-363	-352			
K	K450	-338	-443	-457	-338	-448	-456			
K	K500	-367	-396	-395	-367	-404	-403			
LOAD	PX (KIPS)	-100.0	-101.1		-100.0	-99.2				
LOAD	PY (KIPS)	-100.0	-98.9		-100.0	-100.8				
ACTUAL	PX (KIPS)		-107.7			-128.4				
ACTUAL	PY (KIPS)		-101.5			-130.4				

TABLE 21F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

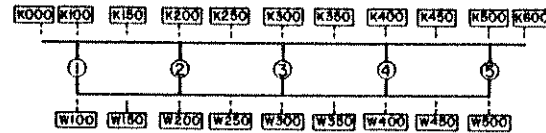
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		50 KSI			60 KSI			60 KSI		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	754	513	513	754	633	633			
W	W100	754	694	694	754	720	720			
W	W150	593	778	761	593	782	769			
W	W200	588	852	856	588	863	867			
W	W250	574	694	695	574	708	705			
W	W300	527	772	772	527	813	815			
W	W350	409	607	595	409	615	604			
W	W400	536	811	776	536	868	829			
W	W450	405	677	617	405	699	643			
W	W500	387	630	648	387	644	663			
W	W600	387	661	661	387	700	700			
K	K100	-369	-459	-460	-369	-462	-463			
K	K150	-340	-567	-563	-340	-583	-574			
K	K200	-350	-394	-394	-350	-390	-397			
K	K250	-337	-392	-392	-337	-387	-386			
K	K300	-312	-448	-436	-312	-458	-436			
K	K350	-250	-367	-380	-250	-360	-382			
K	K400	-225	-256	-251	-225	-251	-243			
K	K450	-190	-211	-212	-190	-190	-192			
K	K500	-168	-219	-219	-168	-258	-257			
LOAD	PX (KIPS)	-100.0	-101.1		-100.0	-99.2				
LOAD	PY (KIPS)	-100.0	-98.9		-100.0	-100.8				
ACTUAL	PX (KIPS)		-103.7			-128.4				
ACTUAL	PY (KIPS)		-101.5			-130.4				

**TABLE 21G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

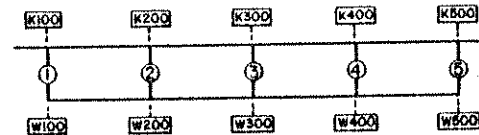
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		50 KSI			60 KSI			60 KSI		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-237	-202	-202	-237	-217	-217			
K	K100	-279	-214	-217	-279	-213	-215			
K	K150	-239	-220	-236	-239	-220	-236			
K	K200	-244	-238	-238	-244	-233	-233			
K	K250	-245	-219	-238	-245	-223	-242			
K	K300	-248	-232	-234	-248	-228	-229			
K	K350	-248	-215	-223	-248	-222	-231			
K	K400	-249	-249	-258	-249	-251	-261			
K	K450	-246	-251	-258	-246	-252	-260			
K	K500	-288	-277	-272	-288	-274	-269			
K	K600	-245	-380	-380	-245	-361	-361			
W	W100	772	990	1003	772	981	996			
W	W150	843	769	809	843	813	839			
W	W200	924	977	983	924	1003	1009			
W	W250	919	844	864	919	853	888			
W	W300	922	0	861	922	0	886			
W	W350	891	716	758	891	747	787			
W	W400	868	747	747	868	756	753			
W	W450	783	671	803	783	706	835			
W	W500	705	715	751	705	733	773			
LOAD	PX (KIPS)	-100.0	-101.1		-100.0	-99.2				
LOAD	PY (KIPS)	-100.0	-98.9		-100.0	-100.8				
ACTUAL	PX (KIPS)		-103.7			-128.4				
ACTUAL	PY (KIPS)		-101.5			-130.4				

TABLE 21H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



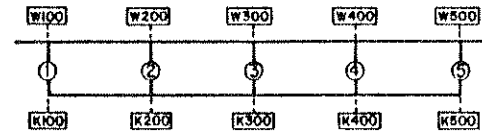
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

		CONDITIONING LOAD STRESS LEVEL								
		50 KSI			60 KSI					
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-49	-75		-49	-78				
K	K200	-65	-115		-65	-121				
K	K300	-93	-103		-93	-102				
K	K400	-131	-167		-131	-155				
K	K500	-216	-184		-216	-177				
W	W100	56	212		56	231				
W	W200	86	479		86	430				
W	W300	118	456		118	445				
W	W400	162	613		162	610				
W	W500	236	899		236	883				
SECTION F										
K	K100	-179	-204		-179	-204				
K	K200	-199	-277		-199	-265				
K	K400	-292	-476		-292	-477				
K	K500	-224	-217		-224	-207				
W	W100	194	620		194	608				
W	W200	250	773		250	794				
W	W400	359	824		359	859				
W	W500	250	1063		250	1053				

**TABLE 211**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



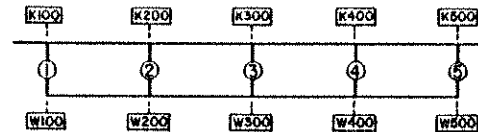
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		50 KSI			60 KSI			60 KSI		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-114	-50		-114	-46				
W	W200	-4	141		-4	193				
W	W300	75	445		75	458				
W	W400	146	538		146	558				
W	W500	216	745		216	778				
K	K100	121	660		121	696				
K	K200	3	28		3	33				
K	K300	-89	-131		-89	-131				
K	K400	-172	-190		-172	-199				
K	K500	-227	-276		-227	-282				
SECTION K										
W	W100	217	583		217	605				
W	W200	146	536		146	556				
W	W300	74	364		74	381				
W	W400	-3	194		-3	176				
W	W500	-112	-95		-112	-122				
K	K100	-230	-280		-230	-274				
K	K200	-172	-197		-172	-207				
K	K300	-88	-124		-88	-118				
K	K400	2	-25		2	-22				
K	K500	119	164		118	193				

**TABLE 21J**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR 50 KSI, 60 KSI  
 CONDITIONING LOAD STRESS LEVELS  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

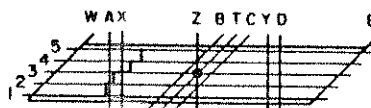
GAGE TYPE	GAGE LOC.	CONDITIONING LOAD STRESS LEVEL								
		50 KSI			60 KSI			60 KSI		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-233	-260		-233	-261				
K	K200	-295	-530		-295	-548				
K	K400	-198	-206		-198	-208				
K	K500	-180	-153		-180	-156				
W	W100	263	925		263	983				
W	W200	362	1069		362	1104				
W	W400	249	1003		249	1031				
W	W500	195	1028		195	1076				
SECTION I										
K	K100	-214	-122		-214	-125				
K	K200	-130	-134		-130	-132				
K	K300	-93	-85		-93	-87				
K	K400	-65	-71		-65	-71				
K	K500	-49	-59		-49	-61				
W	W100	232	483		232	523				
W	W200	161	555		161	562				
W	W300	119	504		119	520				
W	W400	87	304		87	320				
W	W500	56	429		56	309				



**TABLE 21K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR 50 KSI, 60 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

CONDITIONING LOAD STRESS LEVEL  
50 KSI

SECTION	GIRDER	50 KSI			
		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH					
A	1	82.7	19.3	74.1	16.1
A	2	87.9	20.6	94.5	20.5
A	3	88.8	20.8	106.5	23.1
A	4	86.7	20.3	119.0	25.8
A	5	81.5	19.1	66.5	14.4
A	SUM	427.5		460.6	
D	1	81.0	18.9	86.6	19.6
D	2	86.5	20.2	113.0	25.5
D	3	88.3	20.7	96.3	21.8
D	4	88.1	20.6	79.9	18.1
D	5	83.6	19.6	66.7	15.1
D	SUM	427.5		442.5	
MOMENTS ABOUT TENSION FLANGE STEEL					
A	1	61.6	14.5	131.3	28.3
A	2	102.5	24.1	92.4	19.9
A	3	99.9	23.5	90.7	19.5
A	4	100.5	23.6	81.9	17.6
A	5	60.9	14.3	68.0	14.6
A	SUM	425.2		464.3	
D	1	60.4	14.2	75.4	16.8
D	2	100.2	23.6	87.5	19.5
D	3	99.4	23.4	85.5	19.1
D	4	102.8	24.2	94.0	21.0
D	5	62.5	14.7	105.4	23.5
D	SUM	425.3		447.8	

60 KSI

SECTION	GIRDER	60 KSI			
		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH					
A	1	82.7	19.3	74.1	16.2
A	2	87.9	20.6	93.2	20.3
A	3	88.8	20.8	106.4	23.2
A	4	86.7	20.3	117.4	25.6
A	5	81.5	19.1	67.2	14.7
A	SUM	427.5		458.3	
D	1	81.0	18.9	87.0	19.3
D	2	86.5	20.2	116.5	25.6
D	3	88.3	20.7	99.4	21.8
D	4	88.1	20.6	81.9	18.0
D	5	83.6	19.6	69.3	15.2
D	SUM	427.5		455.1	
MOMENTS ABOUT TENSION FLANGE STEEL					
A	1	61.6	14.5	127.3	27.4
A	2	102.5	24.1	95.0	20.7
A	3	99.9	23.5	89.6	19.3
A	4	100.5	23.6	92.5	17.8
A	5	60.9	14.3	68.7	14.8
A	SUM	425.2		464.0	
D	1	60.4	14.2	77.9	17.1
D	2	100.2	23.6	88.5	19.8
D	3	99.4	23.4	87.5	19.2
D	4	102.8	24.2	97.6	21.4
D	5	62.5	14.7	105.2	23.0
D	SUM	425.3		456.6	

LOAD	PX (KIPS)	-100.0	-101.1	-100.0	-99.2
LOAD	PY (KIPS)	-100.0	-98.9	-100.0	-100.8
ACTUAL	PX (KIPS)		-103.7		-128.4
ACTUAL	PY (KIPS)		-101.5		-110.4

TABLE 21L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR 50 KSI, 60 KSI  
CONDITIONING LOAD STRESS LEVELS  
SIMPLY SUPPORTED, NO RESTRAINTS.



I KIP = 4.448 kN  
I FT = 0.305 m

I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

CONDITIONING LOAD STRESS LEVEL  
50 KSI

SECTION	GIRDER	50 KSI			
		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS					
A	1	70.9	16.6	103.4	22.5
A	2	96.1	22.5	92.9	20.2
A	3	95.0	22.3	97.7	21.2
A	4	94.4	22.2	99.0	21.5
A	5	69.9	16.4	66.9	14.5
A	SUM	426.2		459.8	
D	1	69.4	16.3	80.8	18.2
D	2	94.2	22.1	100.3	22.6
D	3	94.6	22.2	90.7	20.5
D	4	96.4	22.6	86.3	19.5
D	5	71.8	16.8	84.9	19.2
D	SUM	426.3		442.9	

SECTION	GIRDER	60 KSI			
		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT
A	1	70.9	16.6	101.0	22.0
A	2	96.1	22.5	94.3	20.5
A	3	95.0	22.3	97.4	21.2
A	4	94.4	22.2	99.0	21.6
A	5	69.9	16.4	67.7	14.7
A	SUM	426.2		459.5	
D	1	69.4	16.3	82.7	18.2
D	2	94.2	22.1	102.7	22.7
D	3	94.6	22.2	93.3	20.6
D	4	96.4	22.6	89.0	19.6
D	5	71.8	16.8	85.9	18.9
D	SUM	426.3		453.6	

SECTION	GIRDER	THEORY				EXPERIMENTAL			
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
A	1	70.9	16.6	101.0	22.0	101.0	22.0	101.0	22.0
A	2	96.1	22.5	94.3	20.5	94.3	20.5	94.3	20.5
A	3	95.0	22.3	97.4	21.2	97.4	21.2	97.4	21.2
A	4	94.4	22.2	99.0	21.6	99.0	21.6	99.0	21.6
A	5	69.9	16.4	67.7	14.7	67.7	14.7	67.7	14.7
A	SUM	426.2		459.5		459.5		459.5	
D	1	69.4	16.3	82.7	18.2	82.7	18.2	82.7	18.2
D	2	94.2	22.1	102.7	22.7	102.7	22.7	102.7	22.7
D	3	94.6	22.2	93.3	20.6	93.3	20.6	93.3	20.6
D	4	96.4	22.6	89.0	19.6	89.0	19.6	89.0	19.6
D	5	71.8	16.8	85.9	18.9	85.9	18.9	85.9	18.9
D	SUM	426.3		453.6		453.6		453.6	

MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS

A	1	70.7	16.6	90.9	20.8
A	2	95.9	22.5	87.4	20.0
A	3	94.8	22.3	94.4	21.7
A	4	94.3	22.2	101.1	23.2
A	5	69.7	16.4	62.4	14.3
A	SUM	425.4		436.2	
D	1	69.3	16.3	81.2	18.8
D	2	94.0	22.1	103.7	23.9
D	3	94.4	22.2	90.6	20.9
D	4	96.2	22.6	81.6	18.9
D	5	71.6	16.8	75.8	17.5
D	SUM	425.5		432.9	

A	1	70.7	16.6	88.3	20.2
A	2	95.9	22.5	88.5	20.2
A	3	94.8	22.3	95.2	21.8
A	4	94.3	22.2	101.5	23.2
A	5	69.7	16.4	63.4	14.5
A	SUM	425.4		437.0	
D	1	69.3	16.3	83.1	18.6
D	2	94.0	22.1	107.3	24.1
D	3	94.4	22.2	93.9	21.1
D	4	96.2	22.6	84.3	18.9
D	5	71.6	16.8	77.4	17.3
D	SUM	425.5		445.9	

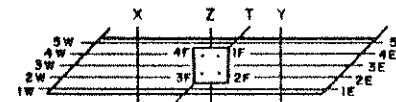
LOAD	PX (KIPS)	-100.0	-101.1	-100.0	-99.2
LOAD	PY (KIPS)	-100.0	-98.9	-100.0	-100.8
ACTUAL	PX (KIPS)		-103.7		-128.4
ACTUAL	PY (KIPS)		-101.5		-130.4

TABLE 22A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 24 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT X-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	IX		IY		IX+IY	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	13.66	11.97	54.07	54.68	67.73	67.91
2E	.52	-.10	16.81	19.54	17.33	21.15
3E	-5.56	-4.19	-.83	-2.28	-6.38	-7.44
4E	-7.24	-8.88	-7.39	-11.31	-14.63	-21.82
5E	-6.82	-5.91	-9.99	-7.65	-16.80	-12.43
1F	-73.98	-48.81	16.00	20.22	-17.97	-19.10
2F	31.48	31.03	32.96	32.19	64.44	63.81
3F	70.44	88.82	11.88	11.05	82.32	92.23
4F	4.98	7.88	-5.07	-7.48	-.09	-6.72
1W	13.87	10.13	2.33	2.39	16.20	17.41
2W	16.62	16.59	1.87	.76	18.19	17.49
3W	14.91	21.29	.06	.28	14.97	19.55
4W	4.77	3.43	-3.15	-3.42	1.62	-.19
5W	-17.66	-22.67	-9.26	-8.31	-26.92	-24.91
RE	-5.42	-7.11	52.67	52.98	47.25	47.37
RF	72.92	78.92	55.77	55.98	128.69	130.22
RW	32.50	28.77	-8.44	-8.70	24.06	25.35
SUMP	100.00	100.58	100.00	100.66	199.99	202.94
PX	-100.00	-100.00	0.	0.	-100.00	-100.47
PY	0.	0.	-100.00	-100.00	-100.00	-99.53
SUMP	-100.00	-100.00	-100.00	-100.00	-200.00	-200.00
SUMP/SUMP	1.00	1.01	1.00	1.01	1.00	1.01
TW=-MW	-192.64	-232.52	-71.74	-65.78	-264.37	-242.53
MF	116.87	171.72	-63.23	-73.26	53.64	61.20
TF	-196.37	-241.17	-50.87	-45.75	-247.24	-272.79
TF=-MF	-125.27	-114.53	-391.67	-399.98	-516.95	-523.67
ACTUAL PX		-12.77		-9.		-12.73
ACTUAL PY		-0.		-12.77		-12.61



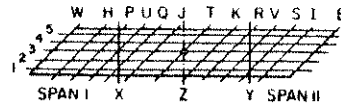
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 22B

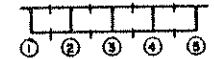
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



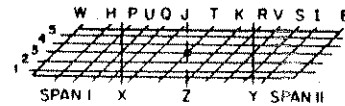
SPAN I DEFLECTION AT POINT	NORMALIZED POINT LOADS AT								
	IX			IY			IX+IY		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.735	-1.327	1.80	.026	.073	2.75	-.709	-.845	1.19
3H	-.571	-1.071	1.88	.053	.095	1.80	-.518	-.659	1.27
5H	-.274	-.452	1.65	.102	.118	1.16	-.172	-.261	1.52
1P	-1.113	-2.077	1.87	.053	.105	1.99	-1.060	-1.350	1.27
3P	-.784	-1.398	1.78	.091	.141	1.55	-.693	-.882	1.27
1X	-1.495	-2.858	1.91	.091	.154	1.69	-1.404	-1.856	1.32
2X	-1.102			.106			-.996		
3X	-.817	-1.480	1.81	.120	.174	1.46	-.697	-.895	1.29
4X	-.552			.134			-.419		
5X	-.307	-.530	1.73	.149	.212	1.42	-.158	-.255	1.61
1U	-1.371	-2.528	1.84	.077	.139	1.80	-1.294	-1.680	1.30
5U	-.200	-.449	2.25	.171	.247	1.44	-.029	-.094	3.30
3Q	-.668	-1.231	1.84	.129	.194	1.50	-.539	-.678	1.26
5Q	.002	-.160		.158	.219	1.39	.160	.133	.83
1J	-1.258	-2.149	1.71	.085	.134	1.58	-1.174	-1.431	1.22
3J	-.413	-.716	1.73	.106	.139	1.31	-.306	-.386	1.26
5J	.239	-.111	-.47	.107	-.071	-.66	.346	-.069	-.20
1T	-.698	-.987	1.41	.007	.026	3.94	-.691	-.741	1.07
2T	-.324			.005			-.320		
4T	.271			-.020			.251		
5T	.529	.740	1.40	-.044	-.100	2.27	.485	.484	1.00

**TABLE 22C**

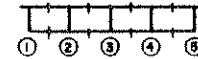
**SUMMARY OF DEFLECTIONS (INCHES)**

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



**SPAN II**

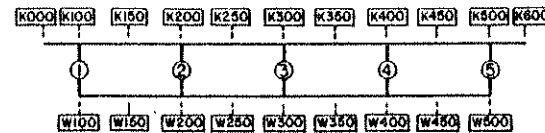
**NORMALIZED POINT LOADS AT**

DEFLECTION AT POINT	1X *****			1Y *****			1X+1Y *****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.271	-.255	.94	-.229	-.257	1.12	-.500	-.483	.97
3K	.258	.456	1.77	-.221	-.293	1.32	.037	.014	.39
5K	.651	1.005	1.54	-.224	-.375	1.68	.427	.383	.90
1R	-.079	.076	-.96	-.449	-.520	1.16	-.528	-.529	1.00
3R	.343	.604	1.76	-.355	-.495	1.40	-.012	-.047	4.02
1Y	.091	.274	3.00	-.781	-.974	1.25	-.690	-.774	1.12
2Y	.226			-.542			-.316		
3Y	.363	.553	1.52	-.402	-.545	1.35	-.040	-.119	2.98
4Y	.501			-.324			.177		
5Y	.645	.943	1.46	-.281	-.457	1.63	.364	.272	.75
1V	.040	.241	6.02	-.668	-.793	1.19	-.628	-.654	1.04
5V	.591	.848	1.46	-.271	-.491	1.81	.310	.213	.69
3S	.323	.505	1.56	-.345	-.512	1.48	-.022	-.126	5.82
5S	.466	.644	1.38	-.204	-.369	1.81	.261	.154	.59
1I	.082	.205	2.49	-.565	-.666	1.18	-.483	-.520	1.08
3I	.231	.349	1.51	-.210	-.328	1.56	.021	-.054	-2.53
5I	.308	.424	1.38	-.109	-.227	2.09	.199	.142	.72
LOAD PX	-100.0	-100.0		0.	0.		-100.0	-100.5	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL PX		-12.8			0.			-12.7	
ACTUAL PY		0.			-12.8			-12.6	

TABLE 22D

SUMMARY OF STRAINS (MICRE IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

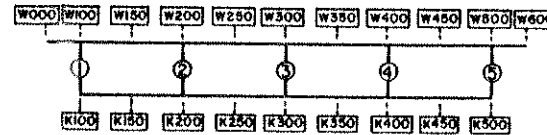
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-569	-1724	-718	43	280	69	-526	-1470	-573
K	K100	-501	-713	-697	38	69	71	-462	-583	-612
K	K150	-461	-490	-505	31	63	52	-430	-506	-483
K	K200	-456	-429	-414	30	31	36	-426	-406	-402
K	K250	-431	-401	-420	32	30	29	-399	-369	-390
K	K300	-438	-463	-418	34	51	27	-404	-399	-374
K	K350	-385	-326	-359	34	19	24	-350	-305	-321
K	K400	-356	-331	-299	35	40	24	-320	-300	-276
K	K450	-337	-302	-318	36	27	29	-301	-277	-299
K	K500	-393	-331	-324	43	29	29	-349	-318	-301
K	K600	-467	-66	-66	51	9	9	-416	-70	-70
W	W100	1130	1534	1572	-86	-146	-144	1044	1465	1507
W	W150	1470	1307	1446	-96	-122	-133	1373	1090	1204
W	W200	1608	1761	1745	-106	-105	-112	1531	1400	1374
W	W250	1564	1136	1260	-118	-146	-130	1446	822	1101
W	W300	1622	1461	1457	-131	-187	-188	1490	1261	1258
W	W350	1429	877	885	-133	-114	-115	1296	724	730
W	W400	1324	974	983	-136	-195	-185	1188	838	853
W	W450	1131	763	859	-124	-178	-141	1006	635	767
W	W500	1014	373	422	-115	-114	-114	899	260	317
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-12.8			-0.			-12.7	
ACTUAL	PY (KIPS)		-0.			-12.8			-12.6	

**TABLE 22E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

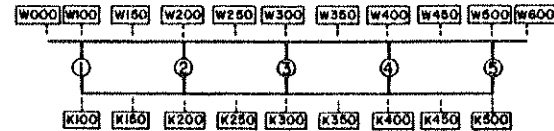
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
W	W000	64	398	844	374	276	268	438	594	741
W	W100	64	844	835	374	268	263	438	741	728
W	W150	80	406	414	324	178	171	405	471	419
W	W200	166	446	455	337	187	191	503	472	488
W	W250	196	341	354	247	162	161	443	415	416
W	W300	242	519	495	158	154	155	400	545	559
W	W350	266	381	439	220	154	157	486	456	515
W	W400	280	422	396	224	219	216	504	586	560
W	W450	308	268	224	207	187	173	515	439	385
W	W500	430	235	240	224	146	146	655	374	377
W	W600	430	219	219	224	114	114	655	326	326
K	K100	-60	-647	-612	-147	-107	-108	-207	-367	-367
K	K150	-54	-132	-141	-149	-205	-188	-204	-300	-300
K	K200	-72	-157	-127	-145	-106	-117	-218	-228	-230
K	K250	-99	-138	-162	-131	-133	-113	-231	-250	-239
K	K300	-130	-182	-176	-98	-125	-130	-229	-251	-273
K	K350	-153	-250	-199	-132	-112	-120	-286	-331	-289
K	K400	-165	-166	-195	-132	-131	-118	-297	-280	-290
K	K450	-174	-181	-166	-116	-168	-177	-291	-342	-332
K	K500	-203	-189	-192	-106	-123	-122	-309	-289	-290
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.5	
LOAD	PY (KIPS)				0.	0.		-100.0	-99.5	
ACTUAL	PX (KIPS)				-100.0	-100.0				-12.7
ACTUAL	PY (KIPS)					-12.8				-12.6

TABLE 22F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

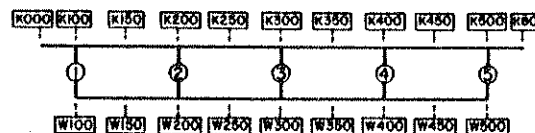
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	482	625	373	462	162	162	944	480	480
W	W100	482	373	367	462	284	284	944	570	568
W	W150	377	511	491	319	357	331	697	765	734
W	W200	376	430	442	286	406	409	663	765	782
W	W250	368	300	300	263	316	370	632	553	618
W	W300	329	333	333	269	211	218	598	472	478
W	W350	286	244	287	112	122	143	398	326	366
W	W400	444	333	329	57	114	107	501	391	379
W	W450	445	422	430	-40	16	16	404	374	402
W	W500	535	300	302	-131	-49	-45	404	228	235
W	W600	535	398	398	-131	-97	-49	404	326	326
K	K100	-241	-393	-396	-235	-168	-166	-476	-437	-436
K	K150	-214	-485	-458	-190	-163	-172	-405	-524	-531
K	K200	-224	-266	-290	-175	-199	-167	-399	-402	-395
K	K250	-219	-237	-208	-156	-173	-196	-375	-367	-367
K	K300	-210	-179	-194	-156	-193	-195	-367	-354	-369
K	K350	-179	-193	-184	-64	-150	-131	-244	-323	-304
K	K400	-187	-183	-185	-21	-49	-51	-209	-211	-217
K	K450	-198	-240	-240	17	-24	-24	-180	-226	-223
K	K500	-211	-226	-226	53	7	7	-158	-193	-193
LOAD	Px (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.5	
LOAD	Py (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL	Px (KIPS)		-12.8			0.			-12.7	
ACTUAL	Py (KIPS)		0.			-12.8			-12.6	



TABLE 22G

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

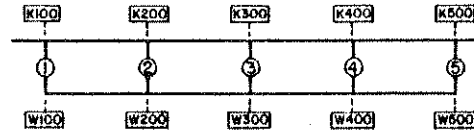
TENSION = + K = CONCRETE STRAIN MEASRS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	167	95	95	-584	-243	-243	-417	-154	-154
K	K100	144	113	114	-466	-289	-295	-321	-182	-182
K	K150	122	124	116	-353	-218	-275	-271	-104	-235
K	K200	121	145	143	-300	-257	-254	-178	-132	-133
K	K250	121	137	135	-245	-185	-207	-123	-61	-65
K	K300	121	117	116	-214	-188	-192	-93	-84	-81
K	K350	121	119	123	-185	-151	-157	-63	-42	-40
K	K400	121	131	128	-169	-151	-158	-48	-33	-34
K	K450	120	99	114	-155	-156	-162	-34	-68	-68
K	K500	140	113	118	-176	-176	-171	-35	-71	-71
K	K600	162	147	147	-198	-193	-183	-36	-52	-52
W	W100	-375	-479	-473	1338	1403	1449	962	985	1041
W	W150	-415	-317	-363	1335	1022	1094	919	716	654
W	W200	-465	-422	-437	1197	1176	1133	732	814	755
W	W250	-463	-382	-383	954	852	844	492	529	513
W	W300	-461	0	-364	809	0	774	347	0	451
W	W350	-440	-292	-322	653	487	532	212	220	239
W	W400	-423	-382	-384	559	592	585	136	203	197
W	W450	-365	-235	-236	474	373	631	68	171	309
W	W500	-320	-341	-332	355	422	436	34	73	86
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.5	
ACTUAL	PX (KIPS)		-12.8		0.				-12.7	
ACTUAL	PY (KIPS)		0.			-12.8			-12.6	

TABLE 22H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

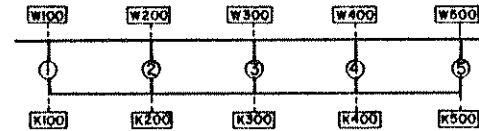
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-194	-126		-9	0		-204	-101	
K	K200	-216	-207		-6	4		-223	-173	
K	K300	-265	-233		-3	3		-268	-208	
K	K400	-296	-345		6	6		-290	-297	
K	K500	-374	-276		25	18		-349	-260	
W	W100	244	325		13	8		258	114	
W	W200	275	852		7	-24		282	578	
W	W300	321	1185		1	8		322	757	
W	W400	361	593		-8	-65		354	415	
W	W500	408	739		-26	-122		381	708	
SECTION F										
K	K100	-339	-302		14	21		-325	-237	
K	K200	-440	-455		20	34		-420	-388	
K	K400	-348	-365		50	69		-298	-336	
K	K500	-319	-224		78	61		-240	-200	
W	W100	372	568		-15	-49		357	407	
W	W200	545	1615		-25	-49		519	977	
W	W400	423	885		-63	-130		359	757	
W	W500	326	966		-88	-235		238	887	

**TABLE 22I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,E,G



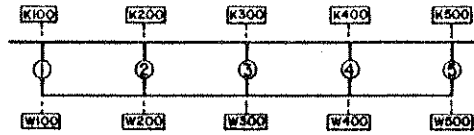
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-332	-130		84	49		-248	-90	
W	W200	-156	-73		85	162		-71	-33	
W	W300	-61	122		90	187		29	220	
W	W400	7	195		86	195		94	309	
W	W500	71	187		104	187		175	366	
K	K100	343	3096		-87	-229		256	790	
K	K200	196	268		-107	-104		88	77	
K	K300	80	0		-111	-97		-30	-84	
K	K400	-1	-25		-105	-125		-107	-120	
K	K500	-72	-139		-106	-146		-178	-263	
SECTION K										
W	W100	179	317		100	178		280	456	
W	W200	162	308		31	89		194	317	
W	W300	151	438		-49	-73		101	163	
W	W400	150	1274		-100	-251		50	179	
W	W500	167	325		-152	-154		14	8	
K	K100	-186	-231		-112	-167		-298	-301	
K	K200	-199	-240		-38	-14		-217	-206	
K	K300	-197	-241		61	61		-125	-121	
K	K400	-187	-316		121	102		-66	-83	
K	K500	-174	-187		150	144		-23	-36	

TABLE 22J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING,  
 SIMPLY SUPPORTED, NO RESTRAINTS,  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGF TYPE	GAGF LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	160	185		-468	-463		-308	-275	
K	K200	134	154		-342	-357		-215	-223	
K	K400	111	117		-138	-133		-27	-24	
K	K500	117	79		-117	-121		0	-42	
W	W100	-172	-406		553	941		380	594	
W	W200	-169	-308		450	900		289	651	
W	W400	-139	-446		168	641		28	244	
W	W500	-127	-446		124	584		-3	155	
SECTION I										
K	K100	133	91		-222	-57		-88	15	
K	K200	105	97		-86	-77		19	11	
K	K300	98	86		-22	10		75	92	
K	K400	84	70		-1	8		82	77	
K	K500	77	47		7	-7		85	43	
W	W100	-145	-130		225	187		90	65	
W	W200	-130	-300		111	324		-19	73	
W	W300	-117	-195		39	211		-77	24	
W	W400	-105	-235		8	57		-97	-155	
W	W500	-99	-65		-17	24		-116	-49	

**TABLE 22K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KST COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT  
1X  
1Y  
1X+1Y

SECTION	GIRDER	1X				1Y				1X+1Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	146.6	21.1	125.4	20.4	-11.0	18.8	-11.7	15.8	135.6	21.3	113.8	21.6
A	2	158.1	22.8	178.2	29.0	-10.8	18.5	-13.8	18.8	147.3	23.2	144.4	27.5
A	3	140.6	21.5	142.7	23.2	-11.8	20.2	-17.9	24.2	137.8	21.7	122.6	23.3
A	4	126.0	18.1	115.2	18.7	-12.4	21.1	-10.5	26.5	113.6	17.9	99.6	18.9
A	5	114.2	16.4	53.7	8.7	-12.5	21.4	-10.9	14.8	101.7	16.0	45.3	8.6
A	SUM	694.5		615.3		-58.6		-73.8		635.9		525.7	
D	1	-41.5	19.8	-41.6	21.2	130.8	31.0	122.9	27.1	89.3	42.0	85.2	31.3
D	2	-42.5	20.3	-52.2	26.6	104.3	24.7	132.6	29.2	61.7	29.0	86.1	31.7
D	3	-42.4	20.3	-42.6	21.7	75.3	17.9	86.7	19.1	32.9	15.5	49.1	18.1
D	4	-42.3	20.2	-35.6	18.1	59.8	14.2	64.4	14.2	17.5	8.2	29.3	10.8
D	5	-40.5	19.4	-24.4	12.4	51.7	12.3	47.8	10.5	11.2	5.3	22.1	8.1
D	SUM	-209.2		-196.4		421.9		454.4		212.7		271.8	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	105.9	15.3	221.2	31.4	-7.5	12.9	-22.5	37.6	98.4	15.5	191.5	29.7
A	2	190.0	27.5	147.0	20.9	-12.9	22.1	-13.0	21.7	177.1	28.0	142.0	22.1
A	3	171.4	24.8	140.8	20.0	-14.1	24.2	-8.7	14.4	157.3	24.9	127.8	19.8
A	4	144.5	20.9	111.2	15.8	-14.8	25.4	-8.2	13.7	129.7	20.5	102.5	15.9
A	5	79.2	11.5	84.5	12.0	-8.9	15.3	-7.5	12.6	70.3	11.1	80.0	12.4
A	SUM	691.0		704.7		-58.2		-59.9		632.8		643.8	
D	1	-29.3	14.1	-41.7	15.8	102.5	24.5	104.0	25.5	73.2	34.7	71.7	36.2
D	2	-50.4	24.2	-55.3	23.7	131.4	31.4	98.7	24.2	91.0	38.4	56.2	28.4
D	3	-50.0	24.0	-50.6	20.4	87.7	20.9	74.1	18.2	37.7	17.9	24.5	12.4
D	4	-49.9	24.0	-51.2	20.5	65.8	15.7	63.5	15.5	15.8	7.5	17.2	8.7
D	5	-28.4	13.7	-42.0	19.8	31.6	7.5	67.9	16.6	3.2	1.5	28.4	14.3
D	SUM	-209.1		-247.8		419.0		438.2		211.0		198.1	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-100.5	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.5	
ACTUAL	PX (KIPS)			-12.8				-0.				-12.7	
ACTUAL	PY (KIPS)			-0.				-12.8				-12.6	

TABLE 22L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 HSE COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	IX				IY				IX+IY			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL				
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	123.8	17.9	174.6	26.5	-9.1	15.5	-17.2	26.1	114.7	18.1	153.6	26.3
A	2	176.0	25.4	161.0	24.4	-12.0	20.5	-13.3	20.2	160.0	25.0	142.4	24.4
A	3	161.9	23.4	140.9	21.4	-13.1	22.4	-13.0	19.6	148.8	23.5	124.6	21.3
A	4	116.3	19.7	112.5	17.1	-13.7	23.5	-13.5	20.4	122.6	19.3	100.6	17.2
A	5	94.6	13.7	69.5	10.6	-10.5	18.0	-9.1	13.7	84.1	13.3	63.2	10.8
A	SUM	692.6		658.5		-58.4		-66.2		634.2		584.3	
D	1	-34.6	16.6	-41.6	18.9	114.9	27.3	114.0	26.3	80.3	37.9	78.8	33.2
D	2	-46.9	22.5	-53.6	24.3	119.5	28.4	116.7	27.0	72.6	34.3	72.1	30.4
D	3	-46.7	22.4	-46.4	21.1	82.3	19.6	80.8	18.7	35.6	16.8	32.6	15.9
D	4	-46.6	22.3	-42.8	19.4	63.2	15.0	63.9	14.8	16.6	7.8	23.7	10.0
D	5	-13.7	16.2	-35.9	16.3	40.5	9.6	57.2	13.2	6.7	3.2	25.1	10.6
D	SUM	-208.6		-220.2		420.3		432.6		211.7		237.3	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	124.0	17.9	154.0	24.9	-9.1	15.6	-15.4	22.6	114.9	18.1	134.1	24.7
A	2	176.9	25.4	156.9	25.4	-12.0	20.5	-12.7	18.7	163.9	25.0	133.5	24.6
A	3	161.5	23.3	132.1	21.4	-13.1	22.4	-14.7	21.6	148.5	23.4	115.7	21.3
A	4	116.1	19.7	106.1	17.2	-13.7	23.5	-16.0	23.5	122.4	19.3	93.7	17.3
A	5	94.8	13.7	68.9	11.2	-10.5	18.0	-9.3	13.6	84.3	13.3	65.4	12.1
A	SUM	692.3		617.9		-58.4		-68.1		633.9		542.4	
D	1	-34.7	16.6	-40.8	19.7	114.3	27.2	117.1	26.7	79.8	37.8	81.3	31.6
D	2	-46.9	22.5	-52.2	25.2	119.6	28.5	123.5	28.1	72.7	34.1	79.5	31.0
D	3	-46.6	22.4	-44.0	21.2	82.1	19.5	82.6	18.8	35.5	16.7	44.1	17.2
D	4	-46.5	22.3	-39.3	18.9	63.0	15.0	63.1	14.4	16.7	7.8	26.8	10.4
D	5	-13.8	16.2	-31.1	15.0	41.2	9.8	53.0	12.1	8.4	4.0	25.1	9.8
D	SUM	-208.5		-207.5		420.2		439.3		213.1		256.8	
LOAD	PX (KIPS)			-100.0		0.		0.		-100.0		-100.5	
LOAD	PY (KIPS)			0.		-100.0		-100.0		-100.0		-99.5	
ACTUAL	PX (KIPS)					-12.8		-0.				-12.7	
ACTUAL	PY (KIPS)					0.		-12.8				-12.6	

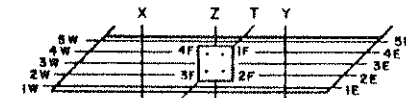
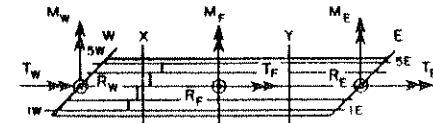
**TABLE 23A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	3X		3Y		3X+3Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	2.00	.29	13.86	13.48	15.86	13.46
2F	-1.34	-1.87	13.24	12.87	11.89	12.22
3E	-2.69	-1.71	10.19	7.28	7.50	5.85
4F	-2.74	-2.83	5.04	6.19	2.39	3.87
5F	-2.12	-1.55	.07	1.46	-2.05	-1.19
1F	-10.54	-11.52	42.80	46.74	32.35	34.62
2F	12.31	11.79	20.31	19.38	32.63	29.59
3E	42.76	47.81	-10.64	-11.52	32.12	36.38
4F	19.90	21.30	11.94	15.08	31.84	36.33
1W	.45	.57	-2.12	-.26	-1.67	-.47
2W	5.10	5.31	-2.71	-2.77	2.39	2.91
3W	9.44	11.50	-2.66	-2.85	6.78	8.59
4W	12.65	12.10	-1.34	-1.34	11.31	10.94
5W	14.83	13.82	1.92	.48	16.75	13.76
RE	-6.90	-7.63	42.40	42.28	35.50	35.21
RF	64.43	69.38	64.51	69.68	128.93	136.92
RW	42.47	43.28	-6.90	-7.44	35.57	35.73
SUMR	100.00	105.03	100.00	104.52	200.00	207.86
PX	-100.00	-100.00	0.	.06	-100.00	-100.21
PY	0.	-.05	-100.00	-100.00	-100.00	-99.79
SUMP	-100.00	-100.06	-100.00	-99.94	-200.00	-200.00
SUMR/SUMP	1.00	1.05	1.00	1.05	1.00	1.04
TW=-MW	93.75	85.50	24.30	11.08	117.65	93.83
MF	91.37	103.26	-92.85	-93.84	-1.52	12.75
TE	-68.56	-74.73	67.73	80.94	-.84	7.47
TE=-ME	-24.78	-12.03	-92.03	-81.56	-116.81	-91.67
ACTUAL PX		-19.28		.01		-19.05
ACTUAL PY		-.31		-19.55		-19.87



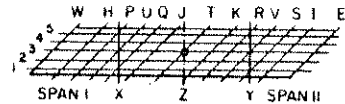
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 23B**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.409	-.552	1.35	.164	.187	1.14	-.245	-.354	1.44
3H	-.414	-.537	1.30	.140	.167	1.19	-.274	-.361	1.32
5H	-.341	-.469	1.37	.093	.124	1.33	-.248	-.322	1.29
1P	-.646	-.898	1.39	.254	.299	1.17	-.391	-.577	1.47
3P	-.610	-.824	1.35	.205	.239	1.17	-.405	-.569	1.40
1X	-.817	-1.071	1.31	.363	.415	1.14	-.454	-.635	1.40
2X	-.752			.300			-.452		
3X	-.693	-.932	1.35	.239	.275	1.15	-.453	-.619	1.37
4X	-.659			.180			-.379		
5X	-.430	-.592	1.38	.123	.159	1.30	-.307	-.406	1.32
1U	-.804	-1.064	1.32	.323	.346	1.07	-.480	-.682	1.42
5U	-.373	-.527	1.41	.111	.185	1.66	-.262	-.359	1.37
3O	-.561	-.719	1.28	.235	.276	1.18	-.327	-.443	1.35
5O	-.195	-.309	1.59	.049	.102	2.07	-.145	-.196	1.35
1J	-.685	-.845	1.23	.363	.367	1.01	-.322	-.415	1.29
3J	-.337	-.426	1.26	.182	.202	1.11	-.155	-.215	1.39
5J	.017	-.012	-.70	-.068	-.093	1.36	-.052	-.176	3.41
1T	-.353	-.369	1.04	.267	.264	.99	-.086	-.117	1.36
2T	-.167			.137			-.029		
4T	.136			-.166			-.030		
5T	.265	.302	1.14	-.349	-.369	1.06	-.088	-.108	1.29

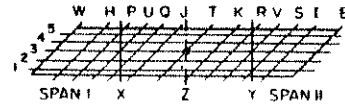


TABLE 23C

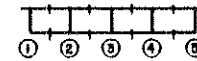
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 2A KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm

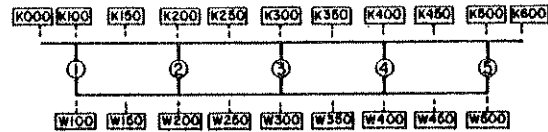


SPAN II	DEFLECTION AT POINT	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
	1K	-.073	-.038	.52	.026	-.031	-1.17	-.047	-.047	1.00
	3K	.182	.206	1.13	-.757	-.409	1.16	-.171	-.211	1.23
	5K	.363	.404	1.11	-.674	-.753	1.12	-.311	-.410	1.32
	1P	.045	.109	2.43	-.174	-.264	1.51	-.130	-.162	1.25
	3P	.234	.307	1.31	-.602	-.720	1.19	-.368	-.437	1.19
	1Y	.120	.184	1.54	-.402	-.573	1.42	-.283	-.393	1.39
	2Y	.178			-.545			-.367		
	3Y	.239	.273	1.14	-.762	-.862	1.13	-.523	-.609	1.16
	4Y	.391			-.739			-.438		
	5Y	.363	.401	1.10	-.789	-.944	1.20	-.426	-.563	1.32
	1V	.107	.182	1.70	-.339	-.488	1.44	-.232	-.307	1.32
	5V	.324	.397	1.20	-.769	-.960	1.25	-.445	-.620	1.39
	3S	.205	.232	1.14	-.653	-.771	1.18	-.448	-.571	1.27
	5S	.255	.277	1.09	-.623	-.786	1.26	-.368	-.537	1.46
	1I	.092	.130	1.42	-.331	-.441	1.33	-.240	-.320	1.33
	3I	.140	.170	1.21	-.432	-.513	1.19	-.292	-.364	1.25
	5I	.164	.187	1.14	-.396	-.491	1.24	-.232	-.331	1.42
LOAD	PX	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD	PY	0.	-.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX		-19.3			.0			-20.0	
ACTUAL	PY		-.0			-19.6			-19.0	

TABLE 23D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

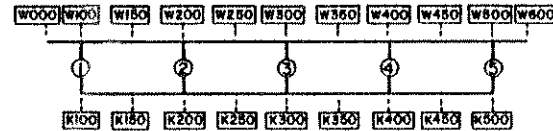
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-344	-2121	-569	72	525	143	-272	-1641	-474
K	K100	-398	-578	-608	85	146	156	-312	-440	-458
K	K150	-335	-470	-442	73	122	109	-261	-354	-338
K	K200	-369	-329	-334	74	73	78	-295	-257	-258
K	K250	-355	-309	-323	74	77	76	-283	-232	-246
K	K300	-326	-372	-327	75	85	78	-250	-290	-247
K	K350	-332	-265	-295	75	64	71	-257	-199	-224
K	K400	-305	-295	-257	75	70	62	-230	-225	-196
K	K450	-283	-253	-273	75	63	67	-208	-190	-203
K	K500	-318	-285	-272	89	74	71	-228	-206	-199
K	K600	-249	-61	-61	76	19	19	-173	-55	-55
W	W100	1001	1300	1239	-196	-253	-240	834	1029	974
W	W150	1057	991	995	-227	-188	-182	830	796	794
W	W200	1278	1056	1108	-263	-196	-204	1015	820	867
W	W250	1271	894	1015	-275	-261	-193	996	539	816
W	W300	1202	1210	1190	-290	-229	-222	911	925	909
W	W350	1245	796	770	-291	-155	-152	953	611	593
W	W400	1157	1178	1147	-293	-212	-212	864	893	867
W	W450	970	910	861	-262	-196	-202	708	676	635
W	W500	835	463	492	-237	-106	-114	598	330	352
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.3			.0			-20.0	
ACTUAL	PY (KIPS)		-.0			-19.6			-19.9	

**TABLE 23E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

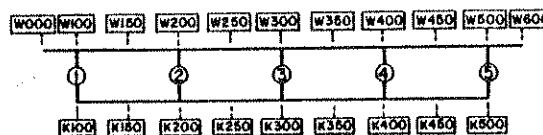
TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-84	195	114	430	180	303	346	378	458
W	W100	-84	114	113	430	343	335	346	458	449
W	W150	19	122	123	368	204	193	398	378	370
W	W200	135	195	198	383	212	218	539	426	433
W	W250	208	252	241	301	196	189	510	450	438
W	W300	299	357	343	258	188	203	558	555	564
W	W350	284	301	311	308	204	218	593	523	563
W	W400	285	366	352	305	343	334	591	700	678
W	W450	299	276	248	276	253	234	576	547	485
W	W500	410	252	252	290	229	232	700	507	509
W	W600	410	227	227	290	204	204	700	434	434
K	K100	21	-28	-28	-169	-157	-158	-148	-173	-173
K	K150	-14	-103	-103	-164	-226	-213	-179	-316	-309
K	K200	-62	-118	-119	-161	-137	-150	-224	-248	-259
K	K250	-101	-183	-184	-157	-166	-179	-258	-345	-320
K	K300	-167	-238	-229	-161	-139	-153	-329	-372	-384
K	K350	-165	-202	-211	-183	-155	-151	-348	-350	-359
K	K400	-170	-185	-179	-180	-156	-153	-351	-373	-321
K	K450	-174	-200	-203	-156	-198	-191	-370	-378	-385
K	K500	-201	-161	-161	-180	-151	-151	-341	-307	-306
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.3			.0			-20.0	
ACTUAL	PY (KIPS)		.0			-19.6			-19.0	

TABLE 23F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

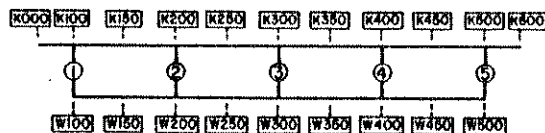
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			7Y			3X+7Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W300	295	73	187	387	221	221	682	290	290
W	W100	295	187	185	387	196	195	682	370	370
W	W150	275	317	296	286	286	266	562	579	554
W	W200	301	309	319	279	319	324	580	635	648
W	W250	300	219	248	294	327	356	594	539	583
W	W300	250	219	220	328	319	324	578	539	545
W	W350	249	179	199	191	180	206	440	346	397
W	W400	387	227	221	159	229	223	546	458	446
W	W450	374	301	315	7	123	141	382	402	441
W	W500	438	211	214	-119	25	29	318	225	234
W	W600	438	349	211	-119	16	16	318	330	330
K	K100	-141	-181	-181	-188	-163	-163	-330	-337	-337
K	K150	-155	-237	-239	-165	-202	-203	-320	-435	-439
K	K200	-178	-184	-184	-166	-190	-186	-344	-363	-355
K	K250	-178	-178	-172	-169	-214	-227	-347	-381	-391
K	K300	-157	-166	-180	-183	-286	-252	-341	-438	-471
K	K350	-156	-194	-171	-110	-185	-198	-266	-365	-363
K	K400	-164	-148	-157	-62	-105	-103	-226	-243	-245
K	K450	-168	-181	-176	-7	-47	-47	-175	-214	-213
K	K500	-172	-165	-166	37	23	23	-135	-124	-124
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.3			.0			-20.0	
ACTUAL	PY (KIPS)		-.0			-19.6			-19.9	

**TABLE 23G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

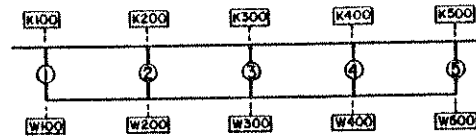
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	77	51	51	-269	-192	-192	-192	-146	-146
K	K100	90	60	61	-330	-243	-246	-240	-187	-185
K	K150	75	62	63	-295	-246	-260	-219	-184	-197
K	K200	75	72	71	-330	-312	-312	-254	-244	-244
K	K250	75	68	70	-362	-300	-308	-287	-239	-243
K	K300	74	63	63	-370	-251	-250	-295	-190	-189
K	K350	74	61	63	-365	-250	-253	-290	-193	-194
K	K400	74	66	67	-334	-265	-276	-250	-207	-216
K	K450	74	66	70	-302	-253	-261	-227	-198	-201
K	K500	87	72	72	-338	-281	-273	-251	-216	-208
K	K600	73	84	84	-276	-304	-304	-202	-226	-226
W	W100	-239	-252	-251	901	1176	1170	662	877	876
W	W150	-262	-187	-202	1017	825	844	754	627	641
W	W200	-292	-236	-238	1240	1136	1136	947	803	821
W	W250	-290	-227	-219	1345	1103	1060	1055	803	841
W	W300	-298	0	-214	1351	0	1041	1062	0	805
W	W350	-275	-162	-175	1298	752	843	1022	595	658
W	W400	-264	-162	-165	1156	972	963	892	804	795
W	W450	-229	-130	-169	936	613	1039	707	475	841
W	W500	-200	-162	-165	814	768	772	614	611	619
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)					0			-20.0	
ACTUAL	PY (KIPS)					-12.6			-12.9	

TABLE 23H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, F, E, G



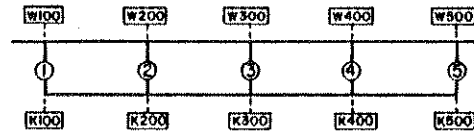
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
GAGE TYPE	GAGE LOC.	*****			*****			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-78	-62		33	19		-45	-41	
K	K200	-102	-115		37	31		-65	-83	
K	K300	-135	-114		46	35		-89	-80	
K	K400	-182	-183		54	50		-127	-132	
K	K500	-267	-203		76	52		-191	-149	
W	W100	91	106		-41	-25		50	88	
W	W200	134	366		-47	-98		87	273	
W	W300	173	333		-56	-106		114	225	
W	W400	222	374		-67	-82		155	290	
W	W500	286	674		-82	-147		203	507	
SECTION F										
K	K100	-265	-211		64	54		-200	-159	
K	K200	-263	-292		65	74		-198	-223	
K	K400	-389	-410		86	102		-303	-310	
K	K500	-370	-293		116	90		-253	-204	
W	W100	292	528		-69	-98		227	419	
W	W200	335	593		-81	-139		253	450	
W	W400	473	804		-108	-180		364	615	
W	W500	431	1007		-126	-212		305	756	

**TABLE 231**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,E,G



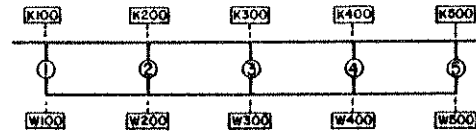
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-214	-97		123	82		-90	-24	
W	W200	-117	-81		115	147		-1	24	
W	W300	-39	32		120	253		81	273	
K	W400	23	122		126	286		149	402	
W	W500	74	236		142	286		217	515	
K	K100	221	594		-120	-253		92	265	
K	K200	142	81		-143	-129		-1	-38	
K	K300	52	-33		-148	-132		-95	-158	
K	K400	-21	-46		-154	-139		-176	-189	
K	K500	-81	-108		-152	-174		-233	-278	
SECTION K										
W	W100	140	211		65	131		206	362	
W	W200	124	187		24	65		148	257	
W	W300	119	179		-21	-33		97	137	
W	W400	115	366		-126	-253		-10	48	
W	W500	124	146		-239	-221		-114	-88	
K	K100	-148	-151		-70	-77		-219	-229	
K	K200	-152	-152		-21	-58		-173	-201	
K	K300	-147	-148		33	-22		-114	-155	
K	K400	-144	-142		156	108		11	-24	
K	K500	-129	-136		258	248		128	123	

TABLE 23J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KST COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	114	110		-308	-303		-194	-192	
K	K200	85	92		-353	-387		-268	-297	
K	K400	64	58		-275	-217		-210	-164	
K	K500	64	44		-259	-181		-195	-142	
W	W100	-122	-236		341	752		219	499	
W	W200	-107	-195		430	940		322	716	
W	W400	-81	-244		342	1176		261	933	
W	W500	-69	-252		290	1046		221	820	
SECTION I										
K	K100	77	43		-292	-168		-215	-130	
K	K200	54	43		-193	-155		-138	-116	
K	K300	46	34		-120	-81		-74	-53	
K	K400	37	27		-100	-65		-63	-42	
K	K500	32	19		-80	-55		-47	-38	
W	W100	-84	-73		326	294		242	209	
W	W200	-67	-114		237	531		170	410	
W	W300	-56	-98		152	294		96	201	
W	W400	-47	-89		132	261		85	177	
W	W500	-41	-24		93	90		52	64	



**TABLE 23K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	3X				3Y				3X+3Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	114.9	20.4	92.3	19.1	-25.1	19.2	-16.7	16.8	89.8	20.8	73.5	18.6
A	2	127.3	22.7	120.8	23.7	-26.3	20.1	-22.3	22.5	101.0	23.4	95.8	24.3
A	3	118.7	21.1	118.3	23.2	-26.6	20.3	-22.2	22.4	92.1	21.4	91.9	23.3
A	4	108.8	19.4	122.3	24.0	-26.8	20.4	-24.3	24.6	82.0	19.0	92.2	23.4
A	5	92.3	16.4	56.6	11.1	-26.1	20.0	-13.5	13.6	66.2	15.4	41.1	10.4
A	SUM	562.2		510.2		-131.0		-99.0		431.2		394.6	
D	1	-26.3	20.0	-22.5	20.7	96.3	17.1	99.8	18.4	70.0	16.3	75.0	17.6
D	2	-26.7	20.3	-29.0	26.6	117.3	20.9	134.8	24.9	90.6	21.0	105.5	24.8
D	3	-26.5	20.2	-24.7	22.7	131.0	23.3	119.8	22.1	104.5	24.3	93.8	22.0
D	4	-26.4	20.1	-18.1	16.6	118.8	21.1	105.0	19.4	92.4	21.5	85.7	20.1
D	5	-25.4	19.4	-14.7	13.5	98.6	17.5	81.5	15.1	73.1	17.0	65.8	15.5
D	SUM	-131.4		-109.1		562.0		540.8		430.7		425.7	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	66.1	15.6	190.0	32.5	-17.5	13.4	-49.2	33.6	70.0	16.3	143.6	32.4
A	2	87.5	26.4	121.7	20.8	-31.0	23.8	-29.2	19.9	116.3	27.1	93.3	21.0
A	3	147.4	23.8	110.2	19.8	-31.4	24.1	-26.9	19.3	101.7	23.7	83.3	18.8
A	4	133.1	22.4	92.3	15.8	-31.8	24.4	-22.7	15.5	93.4	21.8	69.9	15.8
A	5	125.2	11.8	71.3	12.2	-18.5	14.2	-18.7	12.7	47.6	11.1	53.2	12.0
A	SUM	559.2		585.5		-130.2		-146.7		429.0		443.3	
D	1	-18.6	14.3	-22.5	16.6	71.0	12.7	88.5	16.6	52.4	12.2	66.9	16.3
D	2	-31.7	24.3	-28.3	20.9	133.9	23.9	121.4	22.7	102.2	23.8	94.6	23.1
D	3	-31.3	24.0	-26.7	19.6	145.5	26.0	106.9	20.0	114.2	26.6	82.2	20.1
D	4	-31.2	23.9	-28.3	20.8	136.4	24.4	108.3	20.3	105.2	24.5	83.8	20.5
D	5	-17.8	13.6	-29.9	22.0	72.8	13.0	108.8	20.4	55.0	12.8	82.1	20.0
D	SUM	-130.6		-135.7		559.7		533.9		429.1		409.7	
LOAD	PX (KIPS)	-100.0		-100.0		0.		.1		-100.0		-100.2	
LOAD	PY (KIPS)	0.		-.1		-100.0		-100.0		-100.0		-99.8	
ACTUAL	PX (KIPS)			-19.3				.0				-20.0	
ACTUAL	PY (KIPS)			-.0				-19.6				-19.9	

TABLE 23L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI CONG. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	3X				7Y				3X+3Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	99.5	17.8	142.6	26.1	-20.9	16.0	-31.5	27.2	78.7	18.3	109.5	26.2
A	2	138.6	24.7	120.6	22.1	-29.0	22.2	-26.7	20.9	109.6	25.5	94.0	22.5
A	3	126.8	22.6	113.4	20.8	-29.3	22.5	-24.5	19.9	97.5	22.7	86.9	20.8
A	4	118.0	21.0	106.0	19.4	-29.6	22.7	-23.4	19.0	88.4	20.6	80.1	19.2
A	5	77.6	13.9	64.0	11.7	-21.8	16.7	-16.1	13.1	55.8	13.0	47.2	11.3
A	SUM	560.5		546.6		-130.6		-123.3		429.9		417.8	
D	1	-22.0	16.8	-22.5	18.5	82.1	14.6	94.4	17.6	60.1	14.0	71.1	17.0
D	2	-29.5	22.5	-28.7	23.6	126.6	22.6	128.5	23.9	97.1	22.6	100.4	24.0
D	3	-29.2	22.3	-25.6	21.1	139.1	24.8	113.7	21.2	109.9	25.6	84.3	21.1
D	4	-29.1	22.2	-22.9	18.8	128.7	22.9	106.5	19.8	99.6	23.2	84.8	20.3
D	5	-21.2	16.2	-21.8	17.9	84.1	15.0	94.2	17.5	63.0	14.7	73.4	17.6
D	SUM	-131.0		-121.5		560.7		537.3		429.8		418.0	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	99.1	17.7	126.1	24.6	-20.9	16.0	-31.3	27.3	78.3	18.2	96.5	24.6
A	2	138.3	24.7	112.7	22.0	-28.9	22.2	-23.2	20.3	109.4	25.5	88.5	22.5
A	3	126.6	22.6	107.4	20.9	-29.3	22.4	-22.3	19.5	97.3	22.7	82.9	21.1
A	4	117.8	21.1	105.7	20.6	-29.6	22.6	-22.2	19.4	88.3	20.6	79.8	20.3
A	5	77.8	13.9	60.9	11.9	-21.9	16.7	-15.5	13.5	55.9	13.0	45.0	11.5
A	SUM	559.6		512.9		-130.6		-114.5		429.1		392.6	
D	1	-22.0	16.8	-22.1	19.1	82.1	14.7	95.8	18.0	60.0	14.0	72.0	17.3
D	2	-29.5	22.5	-28.4	24.5	126.4	22.6	129.6	24.3	96.9	22.6	101.3	24.4
D	3	-29.2	22.3	-24.8	21.4	138.9	24.8	115.0	21.6	109.7	25.6	89.8	21.6
D	4	-29.1	22.2	-21.1	18.2	128.5	22.9	104.1	19.6	99.4	23.2	83.8	20.2
D	5	-21.2	16.2	-19.4	16.8	84.0	15.0	87.7	16.5	62.9	14.7	69.0	16.6
D	SUM	-131.0		-115.8		559.9		532.1		429.0		416.0	
LOAD	PX (KIPS)	-100.0		-100.0		0.		.1		-100.0		-100.2	
LOAD	PY (KIPS)	0.		-.1		-100.0		-100.0		-100.0		-99.8	
ACTUAL	PX (KIPS)			-19.3				.0				-20.0	
ACTUAL	PY (KIPS)			-.0				-19.6				-19.9	

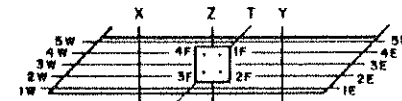
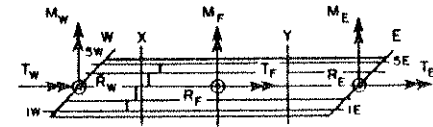
TABLE 24A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 24 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT X-AXIS SIMPLY SUPPORTED. NO RESTRAINTS.

NORMALIZED POINT LOADS AT

REACTION OR LOAD	SX		SY		SX+SY	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	-9.37	-11.68	-17.22	-17.66	-26.59	-27.79
2E	-3.21	-4.62	4.43	4.62	1.23	-1.09
3E	.04	1.05	14.65	12.36	14.70	13.23
4E	1.60	3.22	16.67	21.46	18.27	25.13
5E	2.42	2.52	13.95	12.19	16.37	14.66
1F	11.69	13.59	70.62	75.77	82.31	89.53
2E	-5.32	-8.65	4.74	4.71	-0.59	-4.85
3E	16.28	16.58	-34.12	-37.48	-17.84	-21.55
4E	33.29	41.90	31.76	35.46	65.05	76.76
1W	-10.65	-9.07	-6.80	-5.35	-17.45	-14.46
2W	-7.19	-5.97	-7.24	-6.35	-14.43	-11.82
3W	.06	-1.13	-5.57	-6.21	-5.51	-8.05
4W	17.39	19.33	.51	.48	17.90	20.00
5W	52.95	51.11	13.61	10.67	66.56	61.78
RF	-8.51	-9.51	32.49	32.97	23.98	24.14
RF	55.94	62.43	77.00	78.46	128.94	139.89
RW	52.56	54.27	-5.48	-6.76	47.08	47.45
SUMR	100.00	107.19	100.00	104.67	200.00	211.48
PX	-100.00	-100.00	0.	0.	-100.00	-100.10
PY	0.	-1.18	-100.00	-100.00	-100.00	-99.90
SUMP	-100.00	-100.18	-100.00	-100.00	-200.00	-200.00
SUMP/SUMP	1.00	1.07	1.00	1.05	1.00	1.06
TF=-MW	390.26	374.55	124.87	99.95	515.14	473.91
MF	64.80	79.09	-116.60	-123.75	-51.81	-44.29
TF	51.02	69.85	197.65	216.90	248.67	289.03
TF=-MF	73.00	93.19	191.76	196.81	264.76	285.77
ACTUAL PX		-12.77		-0.		-12.79
ACTUAL PY		-1.02		-12.77		-12.37



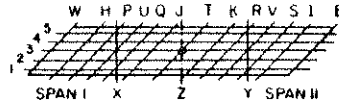
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 24B

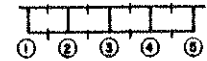
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KST COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

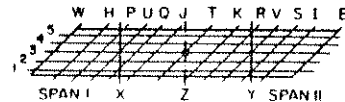
DEFLECTION AT POINT	5X			5Y			5X+5Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.107	-.167	1.56	.308	.322	1.04	.201	.147	.73
3H	-.216	-.317	1.46	.272	.274	1.18	.016	-.068	-4.38
5H	-.528	-.689	1.30	.083	.109	1.31	-.445	-.566	1.27
1P	-.208	-.334	1.61	.466	.504	1.08	.257	.161	.63
3P	-.357	-.513	1.44	.324	.350	1.08	-.033	-.167	5.10
1X	-.307	-.424	1.38	.645	.699	1.08	.338	.239	.71
2X	-.361			.502			.141		
3X	-.430	-.603	1.40	.363	.403	1.11	-.067	-.202	3.02
4X	-.516			.226			-.290		
5X	-.708	-.943	1.33	.093	.123	1.32	-.615	-.801	1.30
1U	-.297	-.412	1.44	.580	.608	1.05	.293	.182	.62
5U	-.585	-.764	1.31	.042	.094	2.22	-.542	-.695	1.28
3O	-.391	-.489	1.28	.344	.390	1.13	-.038	-.136	3.60
5O	-.408	-.524	1.28	-.077	-.038	.49	-.485	-.571	1.18
1J	-.244	-.310	1.27	.651	.684	1.05	.407	.344	.85
3J	-.233	-.298	1.28	.258	.288	1.12	.025	-.027	-1.07
5J	-.213	-.078	.37	-.270	-.109	.40	-.483	-.063	.13
1T	-.044	-.043	.98	.529	.522	.99	.485	.493	1.02
2T	-.021			.272			.250		
4T	.006			-.327			-.321		
5T	.009	-.012	-1.33	-.704	-.754	1.07	-.695	-.745	1.07

**TABLE 24C**

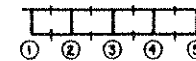
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

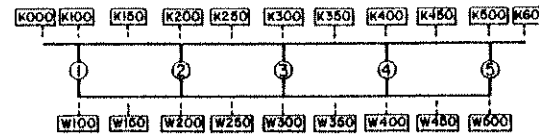
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	5X *****			5Y *****			5X+5Y *****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	.115	.151	1.31	.237	.200	.85	.352	.357	1.01
3K	.109	.135	1.24	-.409	-.491	1.20	-.700	-.738	1.17
5K	.097	.097	1.12	-1.298	-1.467	1.13	-1.211	-1.331	1.10
1P	.164	.220	1.34	.005	-.097		.168	.144	.85
3P	.132	.185	1.41	-.657	-.799	1.22	-.525	-.608	1.16
1Y	.149	.203	1.36	-.281	-.448	1.60	-.132	-.241	1.82
2Y	.135			-.514			-.379		
3Y	.123	.147	1.20	-.789	-.931	1.18	-.666	-.757	1.14
4Y	.109			-1.130			-1.021		
5Y	.093	.118	1.27	-1.572	-1.867	1.19	-1.479	-1.711	1.16
1V	.173	.241	1.39	-.185	-.319	1.72	-.012	-.083	6.86
5V	.078	.106	1.36	-1.461	-1.725	1.18	-1.383	-1.595	1.15
3S	.093	.119	1.28	-.756	-.936	1.24	-.664	-.786	1.18
5S	.053	.071	1.34	-1.161	-1.367	1.18	-1.109	-1.253	1.13
1I	.102	.134	1.31	-.252	-.381	1.51	-.150	-.228	1.52
3I	.053	.071	1.33	-.559	-.688	1.23	-.505	-.595	1.18
5I	.026	.033	1.26	-.758	-.991	1.19	-.731	-.812	1.11
LOAD PX	-100.0	-100.0		0.	0.		-100.0	-100.0	
LOAD PY	0.	-.2		-100.0	-100.0		-100.0	-99.0	
ACTUAL PX		-12.8			0.			-12.4	
ACTUAL PY		-.0			-12.8			-12.4	

TABLE 24D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

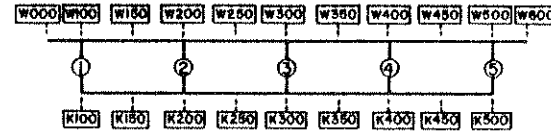
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-175	-1028	-268	116	680	200	-58	-476	-98
K	K100	-201	-276	-303	137	293	213	-63	-100	-106
K	K150	-174	-258	-225	119	164	154	-55	-143	-128
K		-190	-168	-172	121	115	120	-69	-145	-146
K		-183	-153	-168	120	129	121	-62	-145	-153
K	K300	-185	-250	-180	120	116	124	-65	-148	-155
K		-221	-165	-193	120	115	111	-101	-180	-162
K	K400	-277	-305	-235	120	103	100	-156	-210	-185
K	K450	-334	-281	-321	120	107	113	-213	-172	-211
K	K500	-461	-370	-334	142	123	117	-318	-245	-186
K	K600	-430	-110	-111	120	26	26	-309	-81	-83
W	W100	438	657	592	-315	-365	-363	122	301	291
W	W150	510	576	562	-366	-235	-234	144	326	387
W	W200	643	503	566	-427	-308	-303	216	209	245
W	W250	659	511	648	-442	-503	-268	216	326	468
W	W300	718	860	830	-463	-276	-273	254	577	578
W	W350	875	593	653	-465	-203	-211	409	393	444
W	W400	1118	990	955	-467	-235	-250	651	711	696
W	W450	1290	1079	1109	-416	-219	-243	874	861	761
W	W500	1362	365	459	-374	-130	-126	988	251	268
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.1	
LOAD	PY (KIPS)	0.	-.2		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-12.8						-12.4	
ACTUAL	PY (KIPS)		-.0			-12.8			-12.4	

**TABLE 24E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



SECTION B

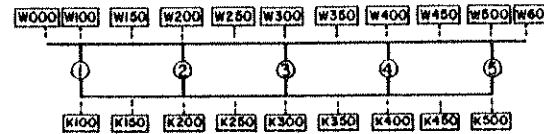
TENSION = +      K = CONCRETE STRAIN METERS  
COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-103	130	-32	538	170	430	435	301	376
W	W100	-103	-32	-30	538	430	421	435	376	369
W	W150	-9	32	38	444	251	240	435	284	277
W	W200	98	97	96	439	268	276	538	360	365
W	W250	163	195	180	330	219	224	503	426	403
W	W300	209	268	236	328	235	274	617	493	503
W	W350	266	268	282	371	268	290	638	515	571
W	W400	275	333	331	387	462	450	662	786	770
W	W450	292	341	313	398	349	318	690	677	611
W	W500	416	349	346	525	397	401	942	736	736
W	W600	416	308	308	525	397	397	942	694	694
K	K100	38	-17	-17	-212	-205	-206	-173	-221	-222
K	K150	1	-85	-84	-197	-265	-251	-196	-344	-332
K	K200	-39	-54	-55	-185	-168	-196	-225	-215	-226
K	K250	-79	-115	-118	-177	-190	-152	-256	-298	-277
K	K300	-167	-233	-174	-209	-137	-157	-377	-358	-357
K	K350	-154	-134	-161	-221	-195	-169	-376	-320	-345
K	K400	-164	-108	-156	-271	-163	-170	-396	-350	-320
K	K450	-171	-227	-247	-228	-177	-176	-400	-401	-418
K	K500	-210	-168	-166	-265	-219	-219	-475	-376	-374
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.0	
LOAD	PY (KIPS)		0.		-100.0	-100.0		-100.0	-99.0	
ACTUAL	PX (KIPS)		-12.8			0.			-12.4	
ACTUAL	PY (KIPS)			0.		-12.8				-12.4

TABLE 24F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

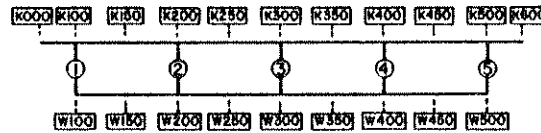
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	265	-41	138	430	276	170	695	226	226
W	W100	265	138	137	430	170	168	695	309	309
W	W150	233	235	220	301	251	236	534	477	456
W	W200	243	252	260	269	251	256	512	527	517
W	W250	233	170	201	255	284	267	488	451	469
W	W300	163	179	180	233	324	325	396	502	507
W	W350	205	146	167	166	162	196	372	309	367
W	W400	328	195	183	191	260	254	520	443	434
W	W450	312	235	215	126	349	376	439	569	605
W	W500	359	154	160	151	260	267	510	418	427
W	W600	359	235	154	151	381	381	510	594	594
K	K100	-131	-133	-132	-202	-197	-205	-314	-326	-328
K	K150	-135	-148	-153	-169	-243	-172	-304	-387	-376
K	K200	-146	-148	-137	-157	-173	-240	-303	-318	-332
K	K250	-140	-142	-147	-146	-184	-164	-287	-321	-320
K	K300	-101	-146	-159	-125	-186	-43	-226	-329	-295
K	K350	-130	-196	-150	-102	-2	-2	-232	-210	-233
K	K400	-140	-122	-136	-85	-93	-45	-226	-204	-188
K	K450	-143	-153	-144	-79	-74	-86	-222	-222	-229
K	K500	-141	-116	-117	-101	-158	-150	-242	-242	-241
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.1	
LOAD	PY (KIPS)	0.	-2		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-12.8			0.			-12.4	
ACTUAL	PY (KIPS)		-0			-12.8			-12.4	



**TABLE 24G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

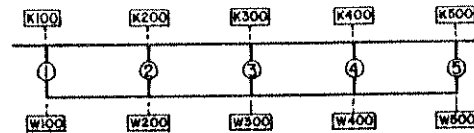
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	36	17	17	-295	-192	-192	-259	-176	-176
K	K100	42	21	20	-350	-246	-248	-308	-222	-224
K	K150	34	11	35	-303	-252	-263	-268	-238	-237
K	K200	37	21	21	-320	-309	-309	-286	-295	-285
K	K250	33	12	13	-337	-290	-309	-304	-274	-295
K	K300	32	26	25	-369	-318	-318	-337	-290	-299
K	K350	32	17	17	-401	-318	-325	-368	-296	-303
K	K400	32	17	18	-456	-377	-381	-424	-350	-352
K	K450	32	37	37	-508	-371	-399	-475	-332	-357
K	K500	38	42	42	-644	-463	-465	-606	-413	-417
K	K600	32	39	39	-580	-631	-631	-548	-670	-570
W	W100	-112	-146	-142	870	1160	1160	757	1020	1007
W	W150	-119	-106	-98	1000	795	816	891	677	719
W	W200	-130	-154	-149	1198	1095	1092	1067	920	932
W	W250	-128	-114	-110	1275	1071	1034	1146	945	913
W	W300	-126	0	-129	1412	0	1116	1285	0	967
W	W350	-123	-73	-89	1498	884	993	1377	796	894
W	W400	-114	-142	-137	1666	1322	1316	1552	1346	1368
W	W450	-100	-57	-171	1695	730	1377	1594	644	902
W	W500	-88	-32	-41	1608	925	923	1520	879	911
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.0	
LOAD	PY (KIPS)		0.		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-12.8						-12.4	
ACTUAL	PY (KIPS)					-12.8				

TABLE 24H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

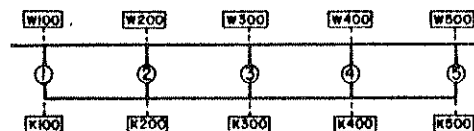
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	20	-14		78	41		98	31	
K	K200	7	-40		83	61		91	24	
K	K300	-20	-39		98	69		78	31	
K	K400	-91	-90		105	102		14	7	
K	K500	-243	-193		133	94		-110	-104	
W	W100	-34	16		-99	-49		-134	-59	
W	W200	-3	130		-105	-178		-109	-33	
W	W300	36	106		-117	-219		-80	-84	
W	W400	120	414		-130	-105		-10	301	
W	W500	259	747		-144	-187		114	527	
SECTION F										
K	K100	-105	-109		117	85		11	-28	
K	K200	-133	-172		112	110		-20	-74	
K	K400	-274	-373		127	133		-146	-260	
K	K500	-319	-246		163	133		-156	-129	
W	W100	104	244		-127	-162		-22	75	
W	W200	163	284		-140	-227		22	84	
W	W400	365	925		-161	-211		203	686	
W	W500	334	1842		-175	-243		159	1597	

**TABLE 241**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

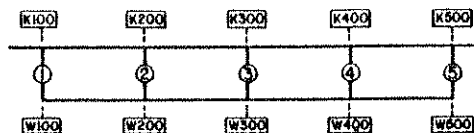
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-171	-114		168	89		-3	-17	
W	W200	-101	-73		151	308		49	50	
W	W300	-40	-49		151	324		111	251	
W	W400	29	97		164	365		194	468	
W	W500	69	219		185	397		254	627	
K	K100	179	247		-175	-270		4	-18	
K	K200	123	89		-189	-181		-64	-73	
K	K300	50	55		-189	-179		-137	-119	
K	K400	-31	-82		-201	-158		-233	-220	
K	K500	-71	-85		-192	-200		-264	-280	
SECTION K										
W	W100	116	146		58	97		175	259	
W	W200	91	138		-4	32		87	167	
W	W300	90	114		-65	-32		25	100	
W	W400	84	203		-148	-227		-63	-17	
W	W500	84	81		-306	-243		-221	-150	
K	K100	-123	-145		-54	-81		-178	-227	
K	K200	-112	-108		13	-42		-98	-150	
K	K300	-111	-106		85	70		-26	-35	
K	K400	-106	-96		183	169		77	68	
K	K500	-88	-80		306	167		217	102	

TABLE 24J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	70	55		-294	-296		-223	-232	
K	K200	46	51		-305	-325		-258	-273	
K	K400	20	12		-395	-354		-374	-340	
K	K500	14	15		-338	-201		-324	-187	
W	W100	-76	-162		292	600		215	410	
W	W200	-58	-138		369	762		310	568	
W	W400	-26	-106		507	1549		481	1446	
W	W500	-14	-106		351	2092		337	2031	
SECTION I										
K	K100	25	2		-351	-202		-326	-204	
K	K200	6	-1		-292	-259		-286	-258	
K	K300	-3	-15		-275	-228		-278	-244	
K	K400	-7	-14		-218	-180		-226	-192	
K	K500	-10	-8		-174	-113		-184	-117	
W	W100	-26	-16		371	341		344	293	
W	W200	-7	32		355	803		347	794	
W	W300	2	-8		333	552		335	510	
W	W400	8	41		274	616		282	602	
W	W500	14	16		216	170		231	151	

**TABLE 24K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				NORMALIZED POINT LOADS AT 5Y				5X+5Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL				
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	59.7	14.2	47.9	12.5	-40.3	19.2	-23.7	18.4	19.5	9.2	29.7	11.7
A	2	66.0	15.6	67.1	17.5	-42.7	20.3	-31.4	24.4	23.3	11.0	38.7	15.2
A	3	68.5	16.2	85.0	22.1	-42.6	20.3	-28.5	22.1	25.8	12.2	59.5	23.4
A	4	97.8	23.2	117.0	30.4	-42.7	20.4	-29.7	23.1	55.0	25.9	91.9	32.2
A	5	130.0	30.8	67.6	17.6	-41.4	19.7	-15.4	12.0	88.5	41.7	44.4	17.5
A	SUM	421.9		384.7		-209.7		-128.7		212.2		254.2	
D	1	-12.2	20.9	-11.9	17.9	103.3	14.9	97.9	16.5	91.1	14.3	85.5	16.8
D	2	-11.9	20.4	-16.4	24.8	114.1	16.4	129.6	21.8	102.2	16.1	112.4	22.0
D	3	-11.5	19.7	-13.5	20.4	131.2	18.9	126.9	21.4	119.7	18.8	111.0	21.8
D	4	-11.4	19.6	-15.2	23.0	160.8	23.2	139.5	23.3	149.4	23.5	123.9	24.3
D	5	-11.3	19.4	-9.1	13.8	184.8	26.6	101.0	17.0	173.6	27.3	76.9	15.1
D	SUM	-58.3		-66.1		694.2		593.8		635.9		509.7	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	38.8	9.3	94.1	24.0	-28.2	13.5	-67.4	30.1	10.6	5.1	36.4	14.1
A	2	73.8	17.6	62.6	16.0	-50.2	24.1	-44.2	19.8	23.6	11.2	49.8	19.2
A	3	80.3	19.2	61.0	15.6	-50.2	24.1	-43.5	19.4	30.1	14.3	54.0	20.8
A	4	123.3	29.4	84.2	21.5	-50.6	24.3	-37.8	15.9	72.7	34.5	64.3	24.8
A	5	102.6	24.5	90.0	23.0	-29.2	14.0	-30.8	13.8	73.4	34.9	54.4	21.0
A	SUM	418.8		391.9		-208.5		-223.7		219.3		258.9	
D	1	-8.7	14.9	-8.9	17.4	68.1	9.9	89.6	13.0	59.4	9.4	81.3	13.0
D	2	-14.2	24.5	-8.7	17.0	129.3	18.7	129.0	17.6	115.1	18.2	111.6	17.9
D	3	-13.7	23.7	-7.3	14.4	152.9	22.2	128.7	18.7	139.2	22.0	118.8	19.0
D	4	-13.6	23.4	-8.7	17.0	198.7	28.8	151.2	22.0	185.1	29.3	137.4	22.0
D	5	-7.8	13.5	-17.4	34.2	140.8	20.4	107.3	29.7	133.0	21.1	175.7	28.1
D	SUM	-58.0		-51.0		689.8		687.7		631.8		624.8	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-100.0	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.9	
ACTUAL	PX (KIPS)			-12.8		0.		0.				-12.4	
ACTUAL	PY (KIPS)			0.				-12.8				0.	

TABLE 24L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				5Y				5X+5Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	48.0	11.4	71.7	18.5	-33.5	16.0	-46.3	26.1	14.5	6.9	33.0	12.9
A	2	70.4	16.7	64.4	16.7	-46.9	22.4	-37.9	21.4	23.5	11.1	44.3	17.4
A	3	75.1	17.9	72.1	18.6	-46.9	22.4	-36.1	20.4	28.2	13.4	56.3	22.0
A	4	112.1	26.7	99.3	25.7	-47.2	22.6	-33.7	19.0	64.9	30.7	72.3	28.3
A	5	114.6	27.3	79.0	20.4	-34.6	16.5	-23.4	13.2	80.0	37.9	49.4	19.4
A	SUM	420.2		386.5		-209.1		-177.5		211.1		255.4	
D	1	-10.2	17.5	-10.5	17.1	83.5	12.1	93.9	14.7	73.3	11.6	63.5	14.8
D	2	-13.2	22.7	-12.8	20.9	122.6	17.7	125.5	19.7	109.4	17.3	112.0	19.9
D	3	-12.8	22.0	-10.6	17.3	143.4	20.7	127.7	20.0	130.6	20.6	114.6	20.4
D	4	-12.6	21.8	-12.2	19.8	182.1	26.3	144.3	22.6	169.4	26.7	130.1	23.1
D	5	-9.3	16.1	-15.3	24.9	160.2	23.2	145.9	22.9	150.8	23.8	123.0	21.8
D	SUM	-58.1		-61.4		691.7		637.4		633.6		563.1	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	48.4	11.5	64.4	17.1	-33.6	16.1	-41.9	25.6	15.0	7.1	30.1	12.2
A	2	70.2	16.7	61.3	16.3	-46.9	22.4	-33.9	20.7	23.5	11.1	42.7	17.3
A	3	75.0	17.9	72.8	19.3	-46.8	22.4	-32.9	20.1	28.1	13.3	53.6	21.8
A	4	112.1	26.7	100.2	26.6	-47.1	22.5	-30.7	18.8	65.0	30.8	71.4	29.0
A	5	114.0	27.2	77.9	20.7	-34.6	16.6	-24.2	14.8	79.5	37.7	48.5	19.7
A	SUM	419.7		376.6		-209.0		-163.6		211.1		246.3	
D	1	-10.2	17.5	-11.2	17.0	84.2	12.2	94.5	15.3	74.0	11.7	63.1	15.4
D	2	-13.2	22.7	-15.0	22.8	122.4	17.7	125.5	20.3	109.2	17.2	110.5	20.5
D	3	-12.8	21.9	-12.2	18.5	143.1	20.7	125.2	20.2	130.4	20.6	111.1	20.6
D	4	-12.6	21.7	-14.0	21.3	182.1	26.3	139.3	22.5	169.4	26.8	124.7	23.2
D	5	-9.4	16.1	-13.5	20.5	159.5	23.1	134.1	21.7	150.2	23.7	108.9	20.2
D	SUM	-58.1		-66.0		691.3		618.6		633.2		538.3	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-100.1	
LOAD	PY (KIPS)	0.		-0.2		-100.0		-100.0		-100.0		-99.9	
ACTUAL	PX (KIPS)			-12.8				-0.				-12.4	
ACTUAL	PY (KIPS)			-0.				-12.8				-12.4	

**TABLE 25A**

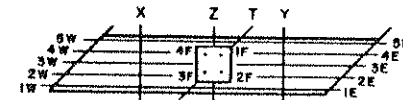
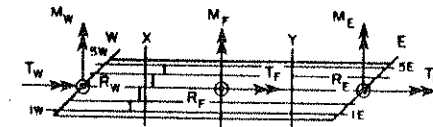
SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.

NORMALIZED POINT LOADS AT

REACTION OR LOAD	1X+5Y		5X+1Y		*****	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	-3.55	-7.05	44.70	40.80		
2F	4.95	5.22	13.61	16.24		
3F	9.09	8.01	-0.78	-1.13		
4F	9.43	13.60	-5.79	-7.55		
5F	7.14	7.57	-7.57	-5.67		
1F	36.65	36.61	27.69	29.92		
2F	36.22	36.64	27.64	22.60		
3F	36.31	43.54	28.17	28.97		
4F	36.74	35.97	28.21	32.84		
1W	7.07	6.80	-8.32	-7.20		
2W	9.38	9.41	-5.62	-5.36		
3W	9.34	13.23	.12	-.47		
4W	5.28	4.77	14.25	16.33		
5W	-4.05	-6.82	43.69	42.16		
RF	27.06	27.75	44.17	42.69		
RF	145.93	152.76	111.71	114.33		
RW	27.02	27.79	44.12	45.45		
SUMR	200.00	207.50	200.00	202.48		
OX	-100.00	-99.65	-100.00	-100.92		
OY	-100.00	-100.35	-100.00	-99.98		
SUMD	-200.00	-200.00	-200.00	-200.90		
SUMR / SUMD	1.00	1.04	1.00	1.01		
TW=-MW	-67.76	-81.98	318.52	309.62		
MF	.27	9.79	1.57	13.93		
TF	1.28	-11.40	.15	16.78		
TF=-MF	66.48	96.74	-318.67	-309.16		
ACTUAL OX		-12.73		-12.97		
ACTUAL OY		-12.82		-12.87		



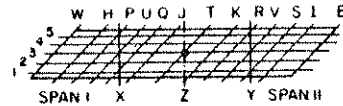
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 25B**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KST COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

DEFLECTION AT POINT	IX+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.427	-.582	1.36	-.080	-.130	1.62			
3H	-.339	-.491	1.45	-.164	-.239	1.46			
5H	-.190	-.264	1.38	-.426	-.533	1.25			
1P	-.647	-.958	1.48	-.155	-.267	1.72			
3P	-.460	-.682	1.48	-.265	-.392	1.48			
1X	-.849	-1.305	1.54	-.216	-.316	1.46			
2X	-.600			-.255					
3X	-.454	-.671	1.48	-.310	-.425	1.37			
4X	-.326			-.383					
5X	-.214	-.305	1.42	-.559	-.734	1.31			
1U	-.790	-1.160	1.47	-.210	-.318	1.51			
5U	-.157	-.250	1.59	-.414	-.534	1.29			
3O	-.324	-.488	1.50	-.253	-.333	1.32			
5O	-.075	-.118	1.58	-.250	-.311	1.25			
1J	-.607	-.882	1.45	-.159	-.207	1.30			
3J	-.155	-.249	1.61	-.127	-.183	1.44			
5J	-.031	-.064	2.06	-.106	-.155	1.46			
1T	-.169	-.241	1.43	-.038	-.045	1.21			
2T	-.053			-.017					
4T	-.055			-.015					
5T	-.176	-.188	1.07	-.035	-.075	2.15			

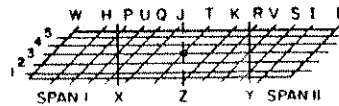


**TABLE 25C**

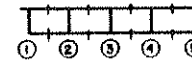
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN II

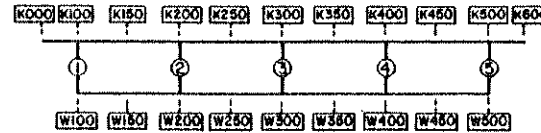
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1X+5Y			5X+1Y			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.034	-.052	1.54	-.113	-.103	.91			
3K	-.151	-.211	1.40	-.113	-.159	1.42			
5K	-.647	-.788	1.22	-.137	-.231	1.68			
1P	-.074	-.128	1.73	-.285	-.312	1.09			
3P	-.314	-.428	1.36	-.223	-.300	1.34			
1Y	-.190	-.326	1.72	-.632	-.749	1.18			
2Y	-.288			-.407					
3Y	-.426	-.561	1.32	-.280	-.388	1.39			
4Y	-.629			-.215					
5Y	-.927	-1.179	1.27	-.188	-.329	1.70			
1V	-.145	-.251	1.73	-.496	-.555	1.12			
5V	-.880	-1.087	1.23	-.193	-.337	1.75			
3S	-.433	-.601	1.39	-.252	-.381	1.51			
5S	-.696	-.871	1.25	-.151	-.286	1.89			
1I	-.170	-.274	1.61	-.463	-.526	1.14			
3I	-.327	-.421	1.29	-.157	-.229	1.46			
5I	-.450	-.555	1.23	-.083	-.171	2.08			
LOAD DX	-100.0	-99.7		-100.0	-103.0				
LOAD PY	-100.0	-100.3		-100.0	-100.0				
ACTUAL PX		-12.7			-12.0				
ACTUAL PY		-12.8			-12.9				

TABLE 25D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

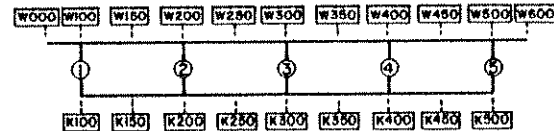
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	1X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-296	-1073	-447	-143	-934	-217			
K	K100	-357	-458	-492	-163	-224	-246			
K	K150	-336	-443	-403	-142	-210	-184			
K	K200	-329	-330	-331	-160	-141	-143			
K	K250	-305	-280	-306	-151	-129	-143			
K	K300	-312	-345	-284	-151	-208	-153			
K	K350	-259	-219	-245	-187	-145	-167			
K	K400	-230	-245	-212	-242	-268	-210			
K	K450	-212	-201	-219	-298	-253	-291			
K	K500	-245	-224	-212	-417	-340	-302			
K	K600	-218	-65	-65	-393	-95	-96			
W	W100	815	1188	1205	352	531	485			
W	W150	1103	944	1018	414	451	449			
W	W200	1181	1131	1130	536	459	506			
W	W250	1121	619	961	541	386	529			
W	W300	1152	1115	1098	586	741	716			
W	W350	963	586	598	741	523	562			
W	W400	856	692	698	982	845	838			
W	W450	714	570	623	1166	934	885			
W	W500	639	212	256	1247	290	298			
LOAD	PX (KIPS)	-100.0	-99.7		-100.0	-100.0				
LOAD	PY (KIPS)	-100.0	-100.3		-100.0	-100.0				
ACTUAL	PX (KIPS)		-12.7			-12.9				
ACTUAL	PY (KIPS)		-12.8			-12.9				

**TABLE 25E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

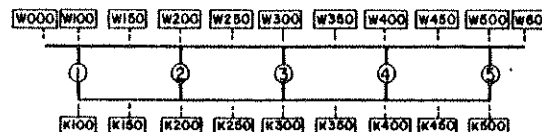
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	602	505	887	271	419	225			
W	W100	602	887	870	271	225	227			
W	W150	525	505	491	315	217	217			
W	W200	606	562	579	435	290	293			
W	W250	535	488	480	411	370	357			
W	W300	570	627	666	447	427	412			
W	W350	637	578	647	487	443	461			
W	W400	667	814	780	499	588	578			
W	W450	706	578	517	499	587	494			
W	W500	956	594	601	641	515	513			
W	W600	956	586	586	641	427	427			
K	K100	-272	-457	-457	-108	-127	-127			
K	K150	-252	-371	-369	-148	-282	-269			
K	K200	-258	-291	-299	-185	-153	-161			
K	K250	-277	-310	-282	-211	-240	-228			
K	K300	-340	-270	-305	-266	-346	-309			
K	K350	-375	-415	-334	-287	-238	-278			
K	K400	-396	-315	-343	-297	-318	-260			
K	K450	-403	-350	-339	-287	-379	-412			
K	K500	-468	-381	-383	-316	-279	-276			
LOAD	PX (KIPS)	-100.0	-99.7		-100.0	-100.0				
LOAD	PY (KIPS)	-100.0	-100.3		-100.0	-100.0				
ACTUAL	PX (KIPS)		-12.7			-12.9				
ACTUAL	PY (KIPS)		-12.8			-12.9				

TABLE 25F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI CONG. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

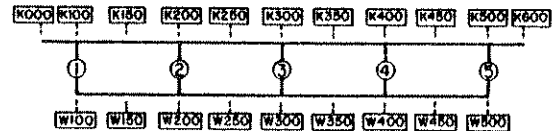
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	IX+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	913	594	594	727	129	435			
W	W100	913	480	472	727	435	435			
W	W150	678	675	655	552	604	570			
W	W200	645	610	636	570	684	695			
W	W250	623	529	544	496	507	593			
W	W300	567	602	602	432	394	404			
W	W350	452	350	420	317	290	323			
W	W400	635	513	501	386	322	301			
W	W450	572	667	717	271	242	232			
W	W500	687	529	541	227	105	116			
W	W600	687	806	529	227	113	113			
K	K100	-444	-471	-478	-366	-293	-290			
K	K150	-384	-615	-552	-326	-301	-318			
K	K200	-381	-386	-434	-321	-337	-292			
K	K250	-365	-374	-356	-297	-309	-339			
K	K300	-335	-359	-297	-258	-331	-353			
K	K350	-282	-195	-229	-194	-348	-271			
K	K400	-273	-251	-207	-162	-156	-170			
K	K450	-277	-272	-292	-125	-168	-162			
K	K500	-313	-334	-329	-87	-101	-101			
LOAD	PX (KIPS)	-100.0	-99.7		-100.0	-100.0				
LOAD	PY (KIPS)	-100.0	-100.3		-100.0	-100.3				
ACTUAL	PX (KIPS)		-12.7			-12.9				
ACTUAL	PY (KIPS)		-12.8			-12.9				

**TABLE 25G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.



SECTION D

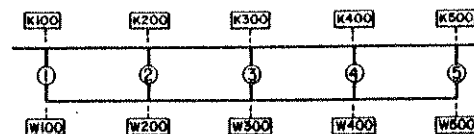
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-174	-123	-123	-387	-218	-218			
K	K100	-207	-156	-158	-417	-250	-255			
K	K150	-182	-151	-172	-314	-202	-248			
K	K200	-200	-202	-203	-262	-224	-225			
K	K250	-217	-181	-201	-209	-164	-179			
K	K300	-249	-227	-229	-179	-154	-157			
K	K350	-281	-221	-226	-150	-129	-130			
K	K400	-337	-269	-276	-135	-127	-131			
K	K450	-389	-294	-316	-120	-114	-115			
K	K500	-506	-365	-364	-134	-126	-123			
K	K600	-463	-496	-496	-112	-131	-131			
W	W100	494	838	848	1225	1256	1294			
W	W150	594	570	545	1216	918	914			
W	W200	733	789	762	1066	1046	1014			
W	W250	812	773	751	826	765	743			
W	W300	950	0	849	682	0	619			
W	W350	1057	675	753	532	379	424			
W	W400	1243	1017	1008	445	588	586			
W	W450	1329	521	1191	333	290	353			
W	W500	1288	627	637	266	354	381			
LOAD	PX (KIPS)	-100.0	-99.7		-100.0	-100.0				
LOAD	PY (KIPS)	-100.0	-100.3		-100.0	-100.0				
ACTUAL	PX (KIPS)		-12.7			-12.9				
ACTUAL	PY (KIPS)		-12.8			-12.9				

TABLE 25H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT  
 5X+1Y

GAGE TYPE	GAGE LOC.	1X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST

SECTION H

K	K100	-116	-73		10	-12				
K	K200	-132	-124		0	-34				
K	K300	-167	-147		-23	-38				
K	K400	-190	-211		-85	-86				
K	K500	-241	-189		-218	-175				
W	W100	144	81		-20	16				
W	W200	169	423		3	121				
W	W300	203	521		38	129				
W	W400	232	358		112	362				
W	W500	263	586		232	660				

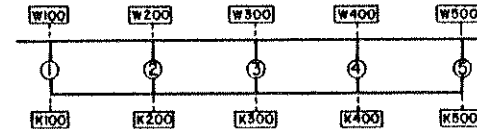
SECTION F

K	K100	-222	-182		-90	-92				
K	K200	-328	-324		-112	-147				
K	K400	-220	-270		-224	-324				
K	K500	-155	-123		-240	-201				
W	W100	244	285		89	201				
W	W200	404	822		177	266				
W	W400	262	643		301	813				
W	W500	150	846		246	1706				

**TABLE 25I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KST COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



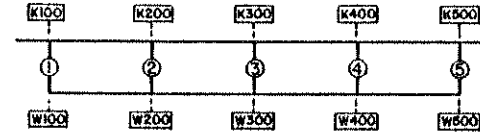
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT					
		1X+5Y			5X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
<b>SECTION J</b>							
W	W100	-164	-49		-87	-48	
W	W200	-5	41		-15	16	
W	W300	90	174		50	113	
W	W400	172	406		116	282	
W	W500	256	586		173	419	
K	K100	168	649		92	74	
K	K200	8	5		16	6	
K	K300	-107	-169		-60	-32	
K	K400	-203	-154		-136	-197	
K	K500	-264	-321		-178	-222	
<b>SECTION K</b>							
W	W100	238	309		217	330	
W	W200	158	285		123	225	
W	W300	85	203		41	32	
W	W400	2	155		-15	-16	
W	W500	-139	-81		-67	-64	
K	K100	-241	-233		-236	-105	
K	K200	-195	-235		-150	-110	
K	K300	-102	-106		-49	-42	
K	K400	-3	-11		14	0	
K	K500	131	7		62	58	

TABLE 25J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 24 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT 1X+5Y								
		1X+5Y			5X+1Y			5X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-133	-152		-397	-382				
K	K200	-177	-208		-296	-304				
K	K400	-283	-255		-118	-116				
K	K500	-221	-134		-102	-98				
W	W100	120	334		476	733				
W	W200	208	545		391	708				
W	W400	368	1204		142	555				
W	W500	224	1709		109	443				
SECTION I										
K	K100	-217	-132		-196	-59				
K	K200	-186	-177		-79	-76				
K	K300	-177	-148		-26	-3				
K	K400	-134	-111		-8	-3				
K	K500	-96	-63		-2	-11				
W	W100	225	236		198	153				
W	W200	225	578		103	322				
W	W300	215	366		42	169				
W	W400	168	358		17	56				
W	W500	117	81		-2	16				



**TABLE 25K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COMP. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	IX+5Y				NORMALIZED POINT LOADS AT 5X+1Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	106.3	21.9	93.5	21.3	48.7	13.4	38.5	12.1				
A	2	115.5	23.8	121.4	27.6	55.1	15.2	56.9	17.9				
A	3	107.0	22.1	106.7	24.3	56.6	15.6	72.3	22.8				
A	4	83.2	17.2	81.3	18.5	85.4	23.5	99.2	31.3				
A	5	72.8	15.0	77.0	8.4	117.4	32.3	50.1	15.8				
A	SUM	484.8		439.9		363.3		317.0					
D	1	61.8	12.7	69.1	15.5	118.6	32.6	110.7	28.7				
D	2	71.6	14.8	90.7	20.3	92.4	25.4	119.1	30.9				
D	3	88.8	18.3	95.4	21.4	63.8	17.5	70.9	18.4				
D	4	118.5	24.4	110.5	24.8	48.4	13.3	53.2	13.8				
D	5	144.3	29.8	80.5	18.0	40.5	11.1	31.8	8.2				
D	SUM	485.0		446.3		363.6		385.7					
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	77.7	16.1	154.0	30.6	31.3	9.7	76.4	22.6				
A	2	139.7	29.0	116.2	23.1	60.9	16.9	51.9	15.4				
A	3	121.2	25.1	96.8	19.3	66.2	18.4	52.2	15.4				
A	4	93.8	19.4	77.3	15.4	108.5	30.1	75.5	22.4				
A	5	50.0	10.4	58.1	11.6	93.7	26.0	81.7	24.2				
A	SUM	482.5		502.5		360.6		317.7					
D	1	78.8	8.0	56.6	11.5	97.9	26.0	93.5	27.4				
D	2	78.9	16.4	78.5	16.0	117.3	32.5	87.4	25.6				
D	3	102.9	21.4	88.6	18.0	78.0	20.5	62.5	18.3				
D	4	148.8	30.9	110.7	22.5	52.2	14.5	40.2	14.7				
D	5	112.4	23.3	156.7	31.9	23.8	6.6	47.6	14.0				
D	SUM	481.7		491.1		361.1		340.9					
LOAD	PX (KIPS)	-100.0		-99.7		-100.0		-100.0					
LOAD	PY (KIPS)	-100.0		-100.3		-100.0		-100.0					
ACTUAL	PX (KIPS)			-12.7				-12.9					
ACTUAL	PY (KIPS)			-12.8				-12.2					

TABLE 25L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 24 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1X+5Y				NORMALIZED POINT LOADS AT 5Y+1Y			
		*****		*****		*****		*****	
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS									
A	1	90.3	18.7	124.4	26.5	39.0	10.8	58.0	17.8
A	2	129.1	26.7	118.1	25.1	58.4	16.1	54.0	16.6
A	3	115.0	23.8	101.0	21.5	62.0	17.1	61.4	18.8
A	4	89.2	18.4	79.8	16.8	98.3	27.2	86.4	26.5
A	5	60.0	12.4	47.8	10.2	104.1	28.8	66.3	20.3
A	SUM	483.5		470.2		361.8		326.2	
D	1	48.9	10.1	63.2	13.5	104.7	28.9	102.6	28.1
D	2	75.7	15.7	85.0	18.2	106.3	29.4	104.3	28.6
D	3	96.7	20.0	92.2	19.7	69.5	19.2	66.9	18.4
D	4	135.5	28.0	110.6	23.7	50.5	13.9	51.6	14.2
D	5	126.4	26.2	116.1	24.9	31.1	8.6	39.1	10.7
D	SUM	483.2		467.1		362.2		364.6	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS									
A	1	90.4	18.7	109.1	24.8	39.3	10.9	52.0	16.2
A	2	129.0	26.7	111.4	25.4	58.3	16.1	51.5	16.1
A	3	114.7	23.7	96.2	21.9	61.9	17.1	62.0	19.3
A	4	89.0	18.4	74.5	17.0	98.4	27.2	85.9	26.8
A	5	60.1	12.4	48.1	10.9	107.5	28.6	69.3	21.6
A	SUM	483.3		439.4		361.4		320.7	
D	1	49.6	10.3	65.6	14.2	104.1	28.8	105.4	28.4
D	2	75.5	15.6	86.5	18.7	106.4	29.4	110.7	29.9
D	3	96.5	20.0	92.3	20.0	69.4	19.1	67.9	18.3
D	4	135.6	28.1	108.8	23.5	50.4	13.9	51.6	13.9
D	5	125.8	26.0	109.0	23.6	31.8	8.8	35.3	9.5
D	SUM	482.9		462.2		362.2		370.9	
LOAD	PX (KIPS)	-100.0		-99.7		-100.0		-100.0	
LOAD	PY (KIPS)	-100.0		-100.3		-100.0		-100.0	
ACTUAL	PX (KIPS)			-12.7				-12.9	
ACTUAL	PY (KIPS)			-12.8				-12.9	

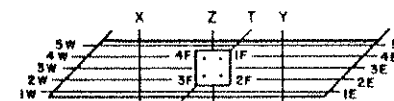
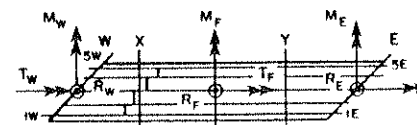
**TABLE 26A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 ME = MOMENT AT FOOTING ABOUT Y-AXIS  
 TF = MOMENT AT FOOTING ABOUT X-AXIS  
 RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

NORMALIZED POINT LOADS AT

REACTION OR LOAD	IX		IY		IX+IY	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	13.66	10.97	54.07	54.17	67.73	66.84
2F	.52	0.	16.81	18.31	17.32	18.53
3F	-5.56	-3.80	-8.7	-7.79	-6.38	-8.06
4F	-7.24	-9.79	-7.39	-10.15	-14.67	-19.97
5F	-6.92	-5.46	-9.99	-6.28	-16.80	-11.24
1E	-33.98	-34.27	16.00	17.94	-17.97	-22.15
2E	31.48	29.06	32.96	34.06	64.44	64.25
3E	70.44	77.01	11.88	13.95	82.32	96.72
4E	4.98	2.86	-5.07	-8.61	-0.09	-6.83
1W	13.87	10.97	2.33	2.52	16.20	13.11
2W	16.62	18.25	1.57	.91	18.19	18.97
3W	14.91	19.81	.06	.36	14.97	19.94
4W	4.77	1.35	-3.15	-3.36	1.62	-3.85
5W	-17.66	-17.73	-9.26	-8.86	-26.92	-24.60
RE	-5.42	-7.12	52.67	52.26	47.25	46.10
RF	72.92	74.57	55.77	57.24	128.69	131.99
RW	12.50	32.66	-8.44	-8.43	24.06	23.57
SUMR	100.00	100.10	100.00	101.07	100.00	201.66
RY	-100.00	-100.00	0.	.06	-100.00	-100.12
RZ	0.	-.06	-100.00	-100.00	-100.00	-99.88
SUMP	-100.00	-100.06	-100.00	-99.94	-200.00	-200.00
SUMP/SUMP	1.00	1.00	1.00	1.01	1.00	1.01
TW=-MW	-192.64	-191.07	-71.74	-69.50	-264.37	-252.61
MF	116.87	127.76	-63.23	-69.84	53.64	71.68
TF	-196.37	-206.07	-59.87	-58.17	-247.24	-284.92
TF=-MF	-125.27	-106.84	-391.67	-384.06	-516.95	-500.55
ACTUAL RY		-10.23		.01		-10.90
ACTUAL RZ		-.01		-10.88		-10.86



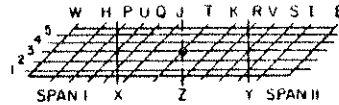
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 26B**

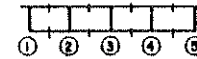
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KST COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

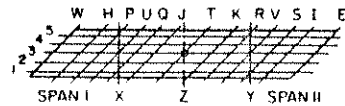
DEFLECTION AT POINT	IX *****			IY *****			IX+IY *****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.735	-1.143	1.55	.026	.083	3.13	-.709	-1.077	1.52
3H	-.571	-.937	1.64	.053	.126	2.40	-.518	-.822	1.59
5H	-.274	-.465	1.70	.102	.211	2.07	-.172	-.269	1.57
1P	-1.113	-1.800	1.62	.053	.117	2.22	-1.060	-1.674	1.58
3P	-.784	-1.299	1.66	.091	.219	2.41	-.693	-1.106	1.60
1X	-1.495	-2.553	1.71	.091	.203	2.23	-1.404	-2.367	1.69
2X	-1.102			.106			-.996		
3X	-.817	-1.364	1.67	.120	.269	2.25	-.697	-1.135	1.63
4X	-.552			.134			-.419		
5X	-.307	-.574	1.87	.149	.341	2.29	-.158	-.295	1.86
1U	-1.371	-2.279	1.66	.077	.194	2.51	-1.294	-2.144	1.66
5U	-.200	-.432	2.16	.171	.367	2.14	-.029	-.086	3.00
3Q	-.668	-1.112	1.67	.129	.269	2.09	-.539	-.873	1.62
5Q	.002	-.110		.158	.326	2.06	.160	.203	1.27
1J	-1.258	-2.020	1.60	.085	.177	2.08	-1.174	-1.867	1.59
3J	-.413	-.657	1.59	.106	.207	1.90	-.306	-.461	1.50
5J	.239	.005	.02	.107	.058	.54	.346	-.012	-.03
1T	-.698	-.965	1.38	.007	.023	3.45	-.691	-.960	1.39
2T	-.324			.005			-.320		
4T	.271			-.020			.251		
5T	.529	.706	1.34	-.044	-.089	2.01	.485	.641	1.32

**TABLE 26C**

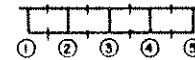
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KST COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

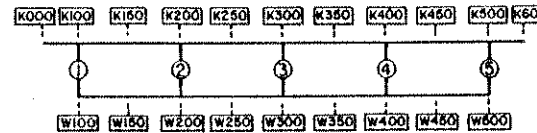
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	IX			IV			IX+IV		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.271	-.293	1.08	-.229	-.391	1.71	-.500	-.692	1.38
3K	.258	.386	1.50	-.221	-.397	1.75	.037	.008	.21
5K	.651	.858	1.32	-.224	-.406	1.81	.427	.472	1.11
1Q	-.079	-.002	.02	-.449	-.786	1.75	-.528	-.773	1.47
3Q	.343	.514	1.50	-.355	-.650	1.83	-.012	-.111	9.38
1Y	.091	.207	2.27	-.781	-1.434	1.83	-.690	-1.199	1.74
2Y	.226			-.542			-.316		
3Y	.363	.293	.81	-.402	-.670	1.67	-.049	-.213	5.34
4Y	.501			-.324			.177		
5Y	.645	.882	1.37	-.281	-.542	1.93	.364	.339	.93
1V	.040	.166	4.16	-.668	-1.194	1.79	-.628	-1.026	1.63
5V	.581	.777	1.34	-.271	-.585	2.16	.310	.215	.69
3S	.323	.450	1.39	-.345	-.677	1.96	-.022	-.202	9.35
5S	.466	.609	1.31	-.204	-.468	2.29	.261	.147	.56
1T	.092	.155	1.68	-.565	-.979	1.73	-.483	-.801	1.66
3I	.231	.322	1.39	-.210	-.444	2.11	.021	-.106	-4.93
5I	.308	.389	1.27	-.109	-.278	2.56	.199	.118	.59
LOAD PX	-100.0	-100.0		0.	.1		-100.0	-100.1	
LOAD PY	0.	-.1		-100.0	-100.0		-100.0	-99.9	
ACTUAL PX		-19.2			.0			-19.9	
ACTUAL PY		-.0			-19.9			-19.9	

TABLE 26D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

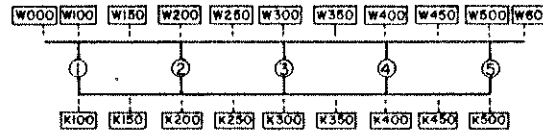
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-569	-2157	-743	43	450	91	-526	-2059	-679
K	K100	-501	-769	-857	38	92	99	-462	-705	-789
K	K150	-461	-769	-639	31	129	64	-430	-705	-532
K	K200	-456	-447	-473	30	29	35	-426	-407	-433
K	K250	-431	-436	-452	32	28	26	-399	-411	-416
K	K300	-438	-509	-457	34	61	27	-404	-447	-418
K	K350	-385	-358	-400	34	20	26	-350	-328	-359
K	K400	-356	-379	-317	35	48	23	-320	-332	-279
K	K450	-337	-280	-311	36	21	22	-301	-245	-273
K	K500	-393	-353	-327	43	23	23	-349	-311	-286
K	K600	-467	-109	-109	51	9	9	-416	-66	-66
W	W100	1130	1783	1773	-86	-167	-162	1044	1702	1710
W	W150	1470	1346	1377	-96	-125	-152	1373	1265	1287
W	W200	1608	1611	1611	-106	-125	-137	1501	1551	1530
W	W250	1564	1102	1253	-118	-172	-156	1446	963	1118
W	W300	1622	1622	1591	-131	-229	-225	1490	1410	1390
W	W350	1429	1060	1024	-133	-193	-166	1296	911	895
W	W400	1324	1050	1076	-136	-219	-218	1188	874	909
W	W450	1131	863	925	-124	-208	-194	1006	677	776
W	W500	1014	514	535	-115	-146	-139	899	380	399
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.1	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-19.2			.0			-19.9	
ACTUAL	PY (KIPS)		-.0			-19.9			-19.9	

**TABLE 26E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



SECTION B

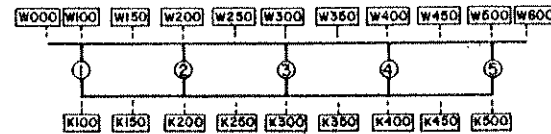
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
W	W000	64	410	566	374	443	318	438	964	916
W	W100	64	566	569	374	318	315	438	916	915
W	W150	80	311	343	324	224	226	405	567	596
W	W200	166	369	384	337	276	276	503	687	720
W	W250	196	291	311	247	240	220	443	541	559
W	W300	242	499	434	158	203	178	400	718	638
W	W350	266	379	415	220	167	181	486	578	615
W	W400	280	369	348	224	240	245	504	619	604
W	W450	308	228	197	207	224	203	515	494	436
W	W500	430	239	241	224	203	199	655	469	467
W	W600	430	233	233	224	146	146	655	406	406
K	K100	-60	-291	-275	-147	-124	-125	-207	-406	-406
K	K150	-54	-36	-36	-140	-294	-240	-204	-378	-379
K	K200	-72	-110	-83	-145	-170	-170	-218	-235	-237
K	K250	-90	-83	-103	-131	-163	-123	-231	-231	-223
K	K300	-130	-140	-119	-98	-132	-140	-229	-257	-276
K	K350	-153	-239	-171	-132	-114	-124	-286	-342	-306
K	K400	-165	-171	-218	-132	-141	-122	-297	-301	-319
K	K450	-174	-202	-171	-116	-195	-200	-291	-375	-365
K	K500	-203	-192	-197	-106	-134	-133	-309	-316	-317
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.1	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-10.2			.0			-19.9	
ACTUAL	PY (KIPS)		-.0			-10.9			-10.9	

TABLE 26F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

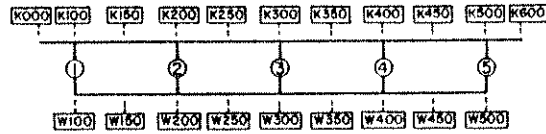
		NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	482	467	467	462	229	464	944	703	703
W	W100	482	379	369	462	464	468	944	869	865
W	W150	377	462	436	319	485	474	697	947	920
W	W200	376	389	408	286	547	546	663	973	986
W	W250	368	270	259	263	438	493	632	713	757
W	W300	329	317	311	269	297	302	598	630	633
W	W350	286	233	254	112	182	175	398	442	452
W	W400	444	332	327	57	156	152	501	495	485
W	W450	445	467	473	-40	5	22	434	509	519
W	W500	535	415	418	-131	-47	-44	404	354	358
W	W600	535	582	582	-131	-130	-47	404	437	437
K	K100	-241	-337	-343	-235	-203	-199	-476	-529	-528
K	K150	-214	-452	-415	-190	-184	-203	-405	-617	-626
K	K200	-224	-223	-249	-175	-222	-155	-399	-426	-419
K	K250	-219	-223	-192	-156	-154	-188	-375	-379	-378
K	K300	-210	-192	-207	-156	-216	-206	-367	-387	-403
K	K350	-179	-213	-213	-64	-173	-141	-244	-366	-344
K	K400	-187	-157	-192	-21	-44	-46	-239	-229	-235
K	K450	-198	-218	-223	17	-32	-31	-180	-217	-214
K	K500	-211	-244	-244	53	-24	-24	-158	-254	-254
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.1	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-19.2			.0			-19.9	
ACTUAL	PY (KIPS)		-.0			-19.9			-19.9	



**TABLE 26G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

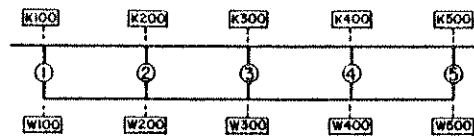
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	167	87	87	-584	-246	-246	-417	-166	-166
K	K100	144	103	103	-466	-280	-291	-321	-185	-187
K	K150	122	124	114	-353	-243	-311	-231	-124	-281
K	K200	121	140	137	-300	-276	-275	-178	-191	-150
K	K250	121	124	112	-245	-191	-214	-123	-69	-79
K	K300	121	109	105	-214	-184	-189	-93	-80	-78
K	K350	121	103	109	-185	-149	-152	-63	-44	-40
K	K400	121	114	116	-169	-155	-161	-48	-41	-44
K	K450	120	98	98	-155	-167	-175	-34	-80	-94
K	K500	140	103	103	-176	-189	-195	-35	-87	-96
K	K600	162	150	150	-198	-249	-249	-36	-84	-84
W	W100	-375	-374	-363	1378	1813	1876	962	1437	1510
W	W150	-415	-280	-317	1375	1225	1244	919	959	927
W	W200	-465	-327	-347	1197	1370	1339	732	1046	995
W	W250	-463	-363	-349	954	865	908	492	571	581
W	W300	-461	0	-314	899	0	775	347	0	479
W	W350	-440	-259	-291	653	568	591	212	323	321
W	W400	-423	-410	-410	550	615	693	136	234	235
W	W450	-365	-213	-228	434	469	512	68	255	250
W	W500	-320	-353	-358	355	448	492	34	104	105
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.1	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.0	
ACTUAL	PX (KIPS)		-19.2			.0			-19.9	
ACTUAL	PY (KIPS)		-.0			-19.9			-19.9	

TABLE 26H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING,  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST

SECTION H

K	K100	-194	-124	-9	6	-204	-109
K	K200	-216	-207	-6	8	-223	-197
K	K300	-265	-244	-3	-1	-268	-240
K	K400	-296	-348	6	3	-290	-378
K	K500	-374	-275	25	12	-349	-250
W	W100	244	150	13	-21	258	141
W	W200	275	665	7	-31	282	625
W	W300	321	873	1	21	322	911
W	W400	363	493	-8	-170	354	399
W	W500	408	868	-26	-177	381	718

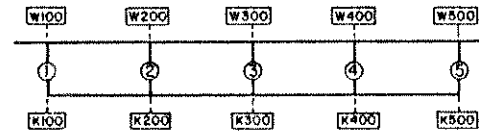
SECTION F

K	K100	-339	-306	14	26	-325	-274
K	K200	-440	-530	20	40	-420	-489
K	K400	-348	-467	50	90	-298	-397
K	K500	-319	-254	78	61	-243	-187
W	W100	372	556	-15	-47	357	479
W	W200	545	1294	-25	-63	519	1223
W	W400	423	982	-63	-146	359	844
W	W500	326	1081	-88	-214	238	901

**TABLE 261**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,E,G



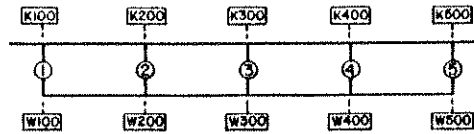
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
GAGE TYPE	GAGE LOC.	*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-332	-197		84	63		-248	-100	
W	W200	-156	-166		85	214		-71	21	
W	W300	-61	31		90	202		29	350	
W	W400	7	77		86	103		94	312	
W	W500	71	171		104	209		175	422	
K	K100	343	1523		-87	-294		256	1291	
K	K200	196	275		-107	-136		98	123	
K	K300	80	20		-111	-117		-30	-88	
K	K400	-1	-5		-105	-142		-107	-143	
K	K500	-72	-135		-106	-149		-178	-274	
SECTION K										
W	W100	179	369		100	276		280	666	
W	W200	162	358		31	162		194	576	
W	W300	151	379		-49	-57		101	307	
W	W400	150	410		-100	-208		50	177	
W	W500	167	306		-152	-281		14	36	
K	K100	-186	-223		-112	-238		-228	-433	
K	K200	-193	-244		-38	-8		-237	-270	
K	K300	-187	-218		61	75		-125	-130	
K	K400	-187	-244		121	119		-56	-113	
K	K500	-174	-280		150	177		-23	-64	

TABLE 26J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, F, F, G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	160	223		-468	-665		-308	-469	
K	K200	134	155		-342	-357		-215	-222	
K	K400	111	103		-138	-138		-27	-36	
K	K500	117	67		-117	-135		0	-70	
W	W100	-172	-363		553	1496		390	1093	
W	W200	-169	-249		450	1069		289	786	
W	W400	-139	-353		168	709		28	312	
W	W500	-127	-415		124	558		-3	151	
SECTION I										
K	K100	133	83		-222	-33		-88	48	
K	K200	105	103		-86	-52		19	45	
K	K300	98	83		-22	21		75	104	
K	K400	84	67		-1	6		82	73	
K	K500	77	41		7	-19		95	26	
W	W100	-145	-161		225	375		80	193	
W	W200	-130	-213		111	490		-19	276	
W	W300	-117	-207		39	375		-77	177	
W	W400	-105	-239		8	31		-97	-187	
W	W500	-99	-98		-17	42		-116	-57	

TABLE 26K

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	IX				NORMALIZED POINT LOADS AT				IX+IY			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	146.6	21.1	129.8	20.3	-11.0	18.8	-12.8	18.0	135.6	21.3	124.1	21.7
A	2	159.1	22.8	166.4	26.0	-10.8	18.5	-15.7	18.2	147.3	23.2	155.4	27.1
A	3	149.6	21.5	154.5	24.1	-11.8	20.2	-22.3	24.4	137.8	21.7	135.2	23.6
A	4	126.0	18.1	127.5	19.9	-12.4	21.1	-25.1	27.5	113.6	17.9	108.5	19.0
A	5	114.2	16.4	61.7	9.6	-12.5	21.4	-14.4	15.8	101.7	16.0	49.3	8.6
A	SUM	694.5		639.9		-58.6		-91.3		635.9		572.4	
D	1	-41.5	12.8	-33.9	19.2	170.8	31.0	157.6	30.8	80.3	42.0	124.0	37.0
D	2	-42.5	20.3	-43.7	24.7	104.3	24.7	155.5	30.4	61.7	29.0	112.3	33.5
D	3	-42.4	20.3	-37.8	21.3	75.3	17.9	90.3	17.6	32.9	15.5	55.0	16.4
D	4	-42.3	20.2	-36.0	20.4	59.8	14.2	63.6	12.4	17.5	8.2	29.0	8.7
D	5	-42.5	19.4	-25.5	14.4	51.7	12.3	44.7	8.7	11.2	5.3	15.1	4.5
D	SUM	-209.2		-176.8		421.9		511.6		212.7		335.4	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	105.9	15.3	264.4	33.2	-7.5	12.9	-39.8	46.7	98.4	15.5	241.3	33.6
A	2	190.0	27.5	172.6	21.7	-12.9	22.1	-13.5	20.4	177.1	28.0	157.9	22.0
A	3	171.4	24.8	153.6	19.3	-14.1	24.2	-8.4	12.8	157.3	24.9	141.2	19.6
A	4	144.5	20.9	117.3	14.7	-14.8	25.4	-7.4	11.3	129.7	20.5	104.0	14.5
A	5	79.2	11.5	87.4	11.0	-8.9	15.3	-5.9	8.0	70.3	11.1	74.5	10.4
A	SUM	691.0		795.4		-58.2		-66.0		632.8		718.8	
D	1	-29.3	14.1	-39.3	17.2	102.5	24.5	104.4	24.4	73.2	34.7	76.3	33.7
D	2	-53.4	24.2	-53.7	27.6	131.4	31.4	107.0	25.0	91.0	39.4	65.6	29.9
D	3	-59.0	24.0	-45.9	20.1	87.7	20.9	73.5	17.2	37.7	17.9	25.2	11.1
D	4	-49.9	24.0	-45.1	19.8	65.8	15.7	65.5	15.3	15.8	7.5	22.1	9.8
D	5	-28.4	13.7	-43.8	19.2	31.6	7.5	78.1	19.2	3.2	1.5	37.5	16.5
D	SUM	-209.1		-227.9		419.0		428.7		211.0		226.8	
LOAD	PX (KIPS)	-100.0		-100.0		0.		.1		-100.0		-100.1	
LOAD	PY (KIPS)	0.		-.1		-100.0		-100.0		-100.0		-99.9	
ACTUAL	PX (KIPS)			-19.2				.3				-19.9	
ACTUAL	PY (KIPS)			-.9				-19.9				-19.9	

TABLE 26L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	NORMALIZED POINT LOADS AT											
		IX				IY				IX+IY			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT		
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	123.8	17.9	199.1	27.8	-9.1	15.5	-22.1	29.5	114.7	18.1	184.3	28.6
A	2	176.0	25.4	168.7	23.5	-12.0	20.5	-14.9	19.2	164.0	25.9	154.8	24.1
A	3	161.9	23.4	153.2	21.4	-13.1	22.4	-15.0	19.3	148.8	23.5	137.6	21.3
A	4	136.3	19.7	121.5	16.9	-13.7	23.5	-15.8	20.3	122.6	19.3	105.6	16.4
A	5	94.6	13.7	74.8	10.4	-10.5	18.0	-9.9	12.7	84.1	13.3	62.2	9.6
A	SUM	692.6		717.4		-58.4		-77.7		634.2		648.5	
D	1	-34.6	16.6	-36.4	18.2	114.9	27.3	133.0	27.6	80.3	37.9	102.0	35.0
D	2	-46.9	22.5	-48.4	24.1	119.5	28.4	133.1	27.6	72.6	34.3	90.7	31.1
D	3	-46.7	22.4	-41.6	20.7	82.3	19.6	82.6	17.1	35.6	16.8	41.2	14.1
D	4	-46.6	22.3	-40.2	20.1	63.2	15.0	64.6	13.4	16.6	7.8	25.0	8.0
D	5	-33.7	16.2	-34.0	16.9	40.5	9.6	69.4	14.4	6.7	3.2	31.7	10.9
D	SUM	-208.6		-200.6		420.3		482.9		211.7		291.3	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	124.0	17.9	175.8	26.5	-9.1	15.6	-20.5	24.0	114.9	18.1	161.8	27.2
A	2	175.8	25.4	156.2	23.6	-12.0	20.5	-14.6	17.1	163.9	25.9	144.7	24.3
A	3	161.5	23.3	143.4	21.6	-13.1	22.4	-18.2	21.4	148.5	23.4	127.7	21.5
A	4	136.1	19.7	115.8	17.5	-13.7	23.5	-20.4	23.9	122.4	19.3	99.8	16.8
A	5	94.8	13.7	71.6	10.8	-10.5	18.0	-11.6	13.6	84.3	13.3	60.9	10.2
A	SUM	692.3		662.7		-58.4		-85.3		633.9		594.9	
D	1	-34.7	16.6	-34.6	18.5	114.3	27.2	146.4	29.8	79.8	37.4	115.4	36.0
D	2	-46.9	22.5	-46.1	24.7	119.6	28.5	143.6	29.2	72.7	34.1	103.2	32.2
D	3	-46.6	22.4	-39.3	21.0	82.1	19.5	85.3	17.3	35.5	16.7	49.2	15.3
D	4	-46.5	22.3	-37.6	20.1	63.0	15.0	62.9	12.8	16.7	7.8	27.3	8.5
D	5	-33.8	16.2	-29.4	15.7	41.2	9.8	53.6	13.0	8.4	4.0	25.6	8.0
D	SUM	-208.5		-187.1		420.2		491.7		213.1		320.8	
LOAD	PX (KIPS)	-100.0		-100.0		0.		.1		-100.0		-100.1	
LOAD	PY (KIPS)	0.		-.1		-100.0		-100.0		-100.0		-99.9	
ACTUAL	PX (KIPS)			-19.2				.0				-19.9	
ACTUAL	PY (KIPS)			-.0				-19.9				-19.9	

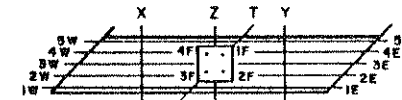
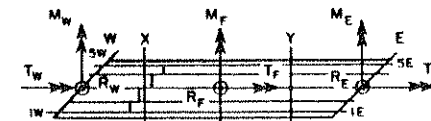
TABLE 27A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KST COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	3X		3Y		7X+3Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	2.00	-1.01	17.86	10.79	15.86	9.97
2E	-1.34	-2.23	13.24	14.15	11.89	12.57
3E	-2.69	-.95	10.19	6.77	7.50	5.66
4E	-2.74	-2.52	5.04	7.20	2.70	5.12
5E	-2.12	-1.80	.07	1.77	-2.95	.37
1F	-10.54	-9.46	42.89	45.09	32.35	33.02
2F	12.31	10.40	20.31	21.29	32.63	28.66
3F	42.76	46.54	-10.64	-8.51	32.12	38.90
4F	19.90	23.24	11.94	12.10	31.84	37.84
1W	.45	.51	-2.12	-.69	-1.67	-.24
2W	5.10	6.15	-2.71	-2.41	2.39	3.70
3W	9.44	11.98	-2.66	-2.83	6.78	8.98
4W	12.65	11.79	-1.34	-1.43	11.31	10.60
5W	13.83	11.26	1.92	-.43	16.75	11.54
RF	-6.90	-8.51	42.40	40.68	35.50	33.69
RF	64.43	70.72	64.51	69.97	128.03	138.42
RW	42.47	41.69	-6.90	-7.79	35.57	34.58
SUMR	100.00	103.90	100.00	102.86	200.00	206.69
RX	-100.00	-100.00	0.	.06	-100.00	-100.21
RY	0.	-.06	-100.00	-100.00	-100.00	-99.79
SUMP	-100.00	-100.06	-100.00	-99.94	-200.00	-200.00
SUMP / SUMP	1.00	1.04	1.00	1.03	1.00	1.03
TW=-MW	93.35	69.79	24.30	3.86	117.65	78.32
MF	91.33	103.26	-92.85	-94.19	-1.52	22.59
TF	-68.56	-64.74	67.73	66.61	-.84	4.95
TE=-ME	-24.78	-4.81	-92.03	-64.26	-116.81	-68.53
ACTUAL RX		-19.28		.91		-19.25
ACTUAL RY		-.01		-19.55		-19.87



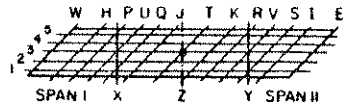
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 27B**

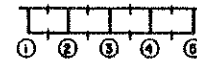
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.409	-.751	1.84	.164	.235	1.43	-.245	-.491	2.00
3H	-.414	-.742	1.79	.140	.218	1.55	-.274	-.502	1.84
5H	-.341	-.638	1.87	.093	.189	2.03	-.248	-.433	1.75
1P	-.646	-1.167	1.81	.254	.336	1.32	-.391	-.742	1.89
3P	-.610	-1.103	1.81	.205	.352	1.72	-.405	-.738	1.82
1X	-.817	-1.389	1.70	.363	.523	1.44	-.454	-.828	1.82
2X	-.752			.300			-.452		
3X	-.693	-1.263	1.82	.239	.396	1.65	-.453	-.837	1.85
4X	-.559			.180			-.379		
5X	-.430	-.845	1.97	.123	.265	2.16	-.307	-.550	1.79
1U	-.804	-1.414	1.76	.323	.482	1.49	-.480	-.897	1.87
5U	-.373	-.771	2.07	.111	.267	2.40	-.262	-.486	1.86
3O	-.561	-1.008	1.80	.235	.386	1.64	-.327	-.591	1.81
5O	-.195	-.433	2.22	.049	.180	3.65	-.145	-.252	1.73
1J	-.685	-1.087	1.59	.363	.520	1.43	-.322	-.550	1.71
3J	-.337	-.574	1.70	.182	.281	1.54	-.155	-.278	1.80
5J	.017	.052	3.08	-.068	-.028	.41	-.052	-.006	.12
1T	-.753	-.483	1.37	.267	.354	1.33	-.086	-.122	1.41
2T	-.167			.137			-.029		
4T	.136			-.166			-.030		
5T	.265	.353	1.33	-.349	-.492	1.41	-.084	-.149	1.77

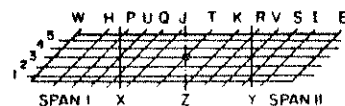


**TABLE 27C**

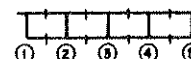
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm

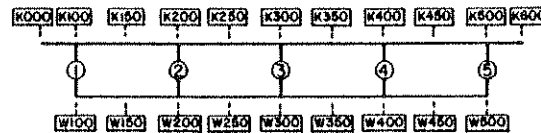


SPAN II DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM.	E/T	THEORY	EXPERM.	E/T	THEORY	EXPERM.	E/T
1K	-.073	-.009	.11	.026	-.056	-2.11	-.047	-.079	1.69
3K	.182	.300	1.65	-.353	-.592	1.68	-.171	-.307	1.79
5K	.363	.510	1.40	-.674	-1.033	1.53	-.311	-.535	1.72
1R	.045	.198	4.19	-.174	-.387	2.22	-.130	-.216	1.67
3R	.234	.384	1.64	-.602	-1.032	1.71	-.368	-.645	1.75
1Y	.120	.272	2.27	-.402	-.761	1.89	-.283	-.495	1.73
2Y	.178			-.545			-.367		
3Y	.239	.396	1.65	-.762	-1.211	1.59	-.523	-.857	1.64
4Y	.301			-.739			-.439		
5Y	.363	.532	1.47	-.789	-1.283	1.63	-.426	-.745	1.75
1V	.107	.274	2.56	-.339	-.666	1.97	-.232	-.417	1.80
5V	.324	.478	1.48	-.769	-1.293	1.68	-.445	-.826	1.86
3S	.205	.309	1.51	-.653	-1.125	1.72	-.448	-.799	1.78
5S	.255	.357	1.40	-.623	-1.064	1.71	-.368	-.696	1.89
1I	.092	.186	2.03	-.331	-.580	1.75	-.240	-.407	1.70
3I	.140	.209	1.49	-.432	-.737	1.71	-.292	-.516	1.77
5I	.164	.227	1.39	-.396	-.678	1.71	-.232	-.462	1.99
LOAD PX	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD PY	0.	-.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL PX		-19.3			.0			-20.0	
ACTUAL PY		-.0			-19.6			-19.9	

TABLE 27D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

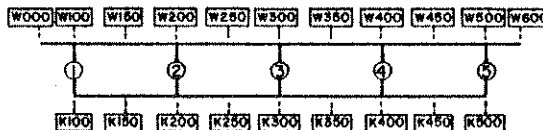
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-344	-2663	-640	72	722	159	-272	-2119	-502
K	K100	-398	-664	-743	85	165	187	-312	-521	-585
K	K150	-335	-640	-518	73	203	130	-261	-505	-407
K	K200	-369	-329	-354	74	73	85	-295	-255	-274
K	K250	-355	-333	-338	74	87	79	-280	-251	-258
K	K300	-326	-422	-359	75	98	85	-250	-334	-275
K	K350	-332	-282	-327	75	65	78	-257	-216	-253
K	K400	-305	-332	-262	75	81	61	-230	-255	-201
K	K450	-283	-226	-251	75	50	54	-208	-168	-186
K	K500	-318	-281	-262	89	55	53	-228	-205	-192
K	K600	-249	-81	-81	76	12	12	-173	-68	-68
W	W100	1001	1467	1382	-196	-265	-252	804	1199	1121
W	W150	1057	1059	1027	-227	-196	-186	830	857	822
W	W200	1278	1214	1276	-263	-223	-230	1015	987	1043
W	W250	1271	1155	1101	-275	-201	-215	996	955	879
W	W300	1202	1360	1327	-290	-270	-262	911	1075	1047
W	W350	1245	1032	967	-291	-191	-184	953	779	740
W	W400	1157	1338	1321	-293	-238	-241	864	1039	1027
W	W450	970	1037	962	-262	-233	-220	708	779	721
W	W500	835	715	709	-237	-164	-159	598	509	502
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.3			.0			-20.0	
ACTUAL	PY (KIPS)		-.0			-19.6			-19.9	

**TABLE 27E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



SECTION B

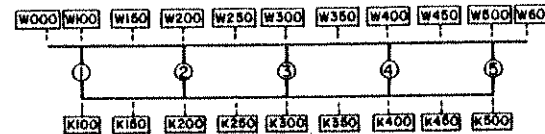
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-84	258	172	430	254	408	346	525	561
W	W100	-84	172	171	430	408	403	346	561	558
W	W150	19	172	178	368	265	264	388	436	450
W	W200	155	301	304	383	313	317	539	618	623
W	W250	208	360	351	301	270	264	510	639	628
W	W300	299	532	428	258	254	257	558	815	695
W	W350	284	382	417	308	276	282	593	649	691
W	W400	285	419	413	305	392	389	591	789	782
W	W450	299	339	310	276	318	288	576	665	606
W	W500	410	355	352	290	318	316	700	660	655
W	W600	410	312	312	290	260	260	700	592	592
K	K100	21	-36	-36	-169	-180	-182	-148	-191	-192
K	K150	-14	-143	-141	-164	-311	-281	-179	-408	-392
K	K200	-62	-131	-134	-161	-157	-177	-224	-269	-286
K	K250	-101	-211	-206	-157	-191	-153	-258	-381	-344
K	K300	-167	-276	-263	-161	-156	-170	-329	-412	-422
K	K350	-165	-217	-235	-183	-164	-167	-348	-366	-387
K	K400	-170	-202	-189	-180	-181	-170	-351	-365	-341
K	K450	-174	-219	-225	-156	-223	-232	-330	-431	-446
K	K500	-201	-174	-173	-140	-167	-156	-341	-332	-330
LOAD	PX (KIPS)	-100.0	-100.0		.0	.1		-100.0	-100.0	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.3			.0			-20.0	
ACTUAL	PY (KIPS)		-.0			-19.6			-19.9	

TABLE 27F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.



SECTION C

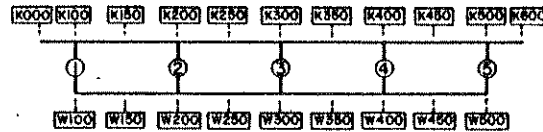
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	295	134	134	387	297	297	682	421	421
W	W100	295	263	260	387	260	257	682	530	527
W	W150	275	349	333	286	323	310	562	675	652
W	W200	301	360	371	279	387	390	580	753	767
W	W250	300	269	281	294	445	439	594	711	715
W	W300	250	274	271	328	472	475	578	779	777
W	W350	249	231	239	191	281	283	440	519	536
W	W400	387	301	280	159	339	317	546	649	636
W	W450	374	403	369	7	196	188	382	587	621
W	W500	438	339	349	-119	85	98	318	400	408
W	W600	438	473	473	-119	111	111	318	545	545
K	K100	-141	-211	-211	-188	-184	-184	-330	-379	-379
K	K150	-155	-275	-274	-165	-239	-240	-320	-496	-500
K	K200	-178	-198	-202	-166	-199	-196	-344	-373	-369
K	K250	-178	-207	-193	-169	-265	-275	-347	-448	-451
K	K300	-157	-192	-213	-183	-367	-341	-341	-540	-550
K	K350	-156	-237	-205	-110	-262	-273	-266	-482	-466
K	K400	-164	-168	-178	-62	-126	-125	-226	-274	-278
K	K450	-168	-192	-188	-7	-46	-46	-175	-218	-217
K	K500	-172	-191	-192	37	19	19	-135	-141	-141
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD	PY (KIPS)		0.		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.3			.0			-20.0	
ACTUAL	PY (KIPS)					-19.6			-19.9	

**TABLE 27G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

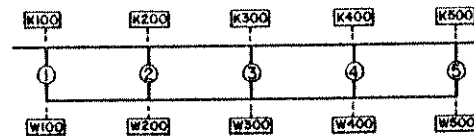
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	77	48	48	-269	-175	-175	-192	-138	-138
K	K100	90	62	62	-370	-241	-245	-240	-185	-188
K	K150	75	65	67	-295	-258	-275	-219	-196	-212
K	K200	75	83	82	-330	-352	-347	-254	-276	-272
K	K250	75	70	71	-362	-319	-325	-287	-253	-256
K	K300	74	68	68	-370	-239	-242	-295	-171	-174
K	K350	74	63	66	-365	-280	-288	-290	-216	-221
K	K400	74	74	74	-334	-306	-315	-260	-238	-246
K	K450	74	78	90	-302	-298	-316	-227	-229	-238
K	K500	87	85	87	-338	-330	-335	-251	-259	-254
K	K600	73	115	115	-276	-477	-477	-202	-353	-353
W	W100	-239	-242	-242	901	1123	1129	662	878	895
W	W150	-262	-199	-208	1017	848	895	754	649	674
W	W200	-292	-242	-244	1240	1171	1179	947	940	941
W	W250	-290	-231	-229	1345	1208	1163	1055	981	926
W	W300	-288	0	-222	1351	0	1151	1062	0	913
W	W350	-275	-177	-188	1298	933	1022	1022	753	824
W	W400	-264	-172	-172	1156	1118	1100	892	924	906
W	W450	-229	-156	-186	936	827	913	707	654	718
W	W500	-200	-199	-204	814	948	995	614	763	806
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.3			.0			-20.0	
ACTUAL	PY (KIPS)		-.0			-19.6			-19.9	

TABLE 27H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



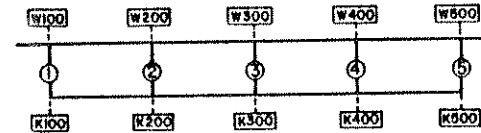
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-78	-77		33	19		-45	-57	
K	K200	-102	-143		37	34		-65	-106	
K	K300	-135	-126		46	33		-89	-90	
K	K400	-182	-217		54	57		-127	-160	
K	K500	-267	-200		76	48		-191	-150	
W	W100	91	156		-41	-26		50	130	
W	W200	134	537		-47	-111		97	431	
W	W300	170	360		-56	-106		114	254	
W	W400	222	554		-67	-106		155	426	
W	W500	286	871		-82	-191		203	670	
SECTION F										
K	K100	-265	-253		64	59		-200	-190	
K	K200	-263	-352		65	91		-198	-266	
K	K400	-389	-501		86	127		-303	-377	
K	K500	-370	-312		116	95		-253	-209	
W	W100	292	742		-69	-132		222	571	
W	W200	335	801		-81	-159		253	608	
W	W400	473	914		-108	-196		364	701	
W	W500	431	1053		-126	-223		305	784	

**TABLE 271**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

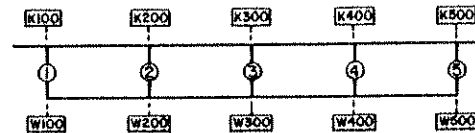
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-214	-113		123	101		-90	-31	
W	W200	-117	-151		115	270		-1	83	
W	W300	-38	65		120	429		81	467	
W	W400	23	140		126	302		149	457	
W	W500	74	290		142	339		217	639	
K	K100	221	822		-128	-369		92	413	
K	K200	142	115		-143	-191		-1	-44	
K	K300	52	-37		-148	-170		-95	-181	
K	K400	-21	-52		-154	-171		-176	-209	
K	K500	-81	-111		-152	-193		-233	-289	
SECTION K										
W	W100	140	269		65	180		206	473	
W	W200	124	290		24	132		148	431	
W	W300	119	312		-21	16		97	291	
W	W400	116	387		-126	-207		-10	78	
W	W500	124	257		-239	-355		-114	-109	
K	K100	-148	-214		-70	-85		-219	-279	
K	K200	-152	-184		-21	-64		-173	-229	
K	K300	-147	-187		33	-68		-114	-225	
K	K400	-144	-196		156	145		11	-27	
K	K500	-129	-210		258	372		128	189	

TABLE 27J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

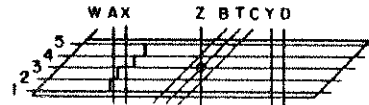
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	114	162		-308	-374		-194	-234	
K	K200	85	110		-353	-443		-268	-342	
K	K400	64	61		-275	-241		-210	-182	
K	K500	64	48		-259	-205		-195	-159	
W	W100	-122	-285		341	922		219	613	
W	W200	-107	-220		430	1076		322	805	
W	W400	-81	-263		342	1335		261	1111	
W	W500	-69	-263		290	1123		221	872	
SECTION I										
K	K100	77	39		-292	-171		-215	-137	
K	K200	54	46		-193	-176		-138	-134	
K	K300	46	31		-120	-75		-74	-47	
K	K400	37	25		-100	-72		-63	-49	
K	K500	32	18		-80	-67		-47	-49	
W	W100	-84	-102		326	488		242	369	
W	W200	-67	-129		237	652		170	509	
W	W300	-56	-108		152	392		96	270	
W	W400	-47	-86		132	329		85	229	
W	W500	-41	-78		93	185		52	145	



**TABLE 27K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED. NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	3X				NORMALIZED POINT LOADS AT 3Y				3X+3Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	114.9	20.4	97.6	16.9	-25.1	19.2	-16.7	15.0	89.8	20.8	78.9	17.4
A	2	127.3	22.7	133.4	23.1	-26.3	20.1	-24.4	22.0	101.0	23.4	108.1	23.8
A	3	118.7	21.1	134.3	23.2	-26.6	20.3	-26.1	23.5	92.1	21.4	105.6	23.3
A	4	109.8	19.4	142.4	24.6	-26.8	20.4	-27.7	24.9	82.0	19.0	109.4	24.1
A	5	92.3	16.4	70.4	12.2	-26.1	20.0	-16.3	14.7	66.2	15.4	51.3	11.3
A	SUM	562.2		578.2		-131.0		-111.2		431.2		453.3	
D	1	-26.3	20.0	-22.4	19.5	96.3	17.1	100.3	17.4	70.0	16.3	77.1	16.9
D	2	-26.7	20.3	-29.8	26.0	117.3	20.9	142.6	24.8	90.6	21.0	112.3	24.6
D	3	-26.5	20.2	-25.9	22.6	131.0	23.3	135.8	23.6	104.5	24.3	108.3	23.7
D	4	-26.4	20.1	-19.2	16.8	118.8	21.1	113.0	19.6	92.4	21.5	91.8	20.1
D	5	-25.4	19.4	-17.2	15.0	98.6	17.5	84.5	14.7	73.1	17.0	67.5	14.8
D	SUM	-131.4		-114.6		562.0		576.2		430.7		457.0	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	97.5	15.6	227.9	35.5	-17.5	13.4	-50.6	37.7	70.0	16.3	178.6	36.1
A	2	147.4	26.4	132.5	20.7	-31.0	23.8	-32.4	20.9	116.3	27.1	102.3	20.7
A	3	133.1	23.8	119.9	19.7	-31.4	24.1	-28.7	18.5	101.7	23.7	91.6	18.5
A	4	125.2	22.4	93.0	14.5	-31.8	24.4	-22.0	14.2	93.4	21.8	70.8	14.3
A	5	66.1	11.8	68.2	10.6	-19.5	14.2	-13.7	8.8	47.6	11.1	51.0	10.3
A	SUM	559.2		641.4		-130.2		-155.4		429.0		494.3	
D	1	-18.6	14.3	-23.0	15.1	71.0	12.7	98.6	14.8	52.4	12.2	68.2	14.9
D	2	-31.7	24.3	-31.3	20.5	133.9	23.9	133.2	22.2	102.2	23.8	104.1	22.8
D	3	-31.3	24.0	-27.8	18.2	145.5	26.0	109.8	18.3	114.2	26.6	82.3	18.0
D	4	-31.2	23.9	-32.5	21.2	136.4	24.4	126.3	21.0	105.2	24.5	96.7	21.1
D	5	-17.8	13.6	-38.2	25.0	72.8	13.0	142.2	23.7	55.0	12.8	106.0	23.2
D	SUM	-130.6		-152.8		559.7		600.1		429.1		457.3	
LOAD	PX (KIPS)	-100.0		-100.0		0.		.1		-100.0		-100.2	
LOAD	PY (KIPS)	0.		-.1		-100.0		-100.0		-100.0		-99.8	
ACTUAL	PX (KIPS)			-19.3				.0				-20.0	
ACTUAL	PY (KIPS)			-.0				-19.6				-19.9	

TABLE 27L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	3X				3Y				3X+3Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	99.5	17.8	164.8	27.1	-20.9	16.0	-38.4	28.7	78.7	18.3	130.3	27.6
A	2	138.6	24.7	132.2	21.7	-29.0	22.2	-28.5	21.3	109.6	25.5	104.5	22.1
A	3	126.8	22.6	126.0	20.7	-29.3	22.5	-27.3	20.5	97.5	22.7	97.7	20.7
A	4	118.0	21.0	115.9	19.1	-29.6	22.7	-24.6	18.4	88.4	20.6	88.7	18.8
A	5	77.6	13.9	68.9	11.3	-21.8	16.7	-14.8	11.1	55.8	13.0	50.9	10.8
A	SUM	560.5		607.9		-130.6		-133.6		429.9		472.2	
D	1	-22.0	16.8	-22.7	17.1	82.1	14.6	94.7	16.1	60.1	14.0	72.8	15.9
D	2	-29.5	22.5	-30.5	23.1	126.6	22.6	138.2	23.5	97.1	22.6	108.5	23.7
D	3	-29.2	22.3	-26.8	20.2	139.1	24.8	123.6	21.1	109.9	25.6	96.1	21.0
D	4	-29.1	22.2	-25.4	19.2	128.7	22.9	119.2	20.3	99.6	23.2	94.0	20.6
D	5	-21.2	16.2	-27.0	20.4	84.1	15.0	111.3	19.0	63.0	14.7	85.4	18.7
D	SUM	-131.0		-132.3		560.7		587.0		429.8		456.9	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	99.1	17.7	147.5	25.5	-20.9	16.0	-37.3	29.5	78.3	18.2	116.0	25.8
A	2	138.3	24.7	123.3	21.4	-28.9	22.2	-25.5	20.1	109.4	25.5	98.4	21.9
A	3	126.6	22.6	120.6	20.9	-29.3	22.4	-25.2	19.9	97.3	22.7	94.1	21.0
A	4	117.8	21.1	120.2	20.8	-29.6	22.6	-24.2	19.1	88.3	20.6	92.3	20.5
A	5	77.8	13.9	65.7	11.4	-21.9	16.7	-14.5	11.5	55.9	13.0	48.4	10.8
A	SUM	559.6		577.4		-130.6		-126.7		429.1		449.2	
D	1	-22.0	16.8	-22.1	17.7	82.1	14.7	96.2	16.7	60.0	14.0	73.9	16.4
D	2	-29.5	22.5	-29.8	23.8	126.4	22.6	138.2	24.0	96.9	22.6	108.6	24.0
D	3	-29.2	22.3	-25.9	20.8	138.9	24.8	128.5	22.3	109.7	25.6	101.8	22.5
D	4	-29.1	22.2	-23.4	18.7	128.5	22.9	114.2	19.9	99.4	23.2	91.3	20.2
D	5	-21.2	16.2	-23.8	19.0	84.0	15.0	98.4	17.1	62.9	14.7	76.0	16.8
D	SUM	-131.0		-125.0		559.9		575.5		429.0		451.7	
LOAD	PX (KIPS)	-100.0		-100.0		0.		.1		-100.0		-100.2	
LOAD	PY (KIPS)	0.		-.1		-100.0		-100.0		-100.0		-99.8	
ACTUAL	PX (KIPS)			-19.3				.0				-20.0	
ACTUAL	PY (KIPS)			-.0				-19.6				-19.9	

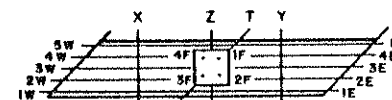
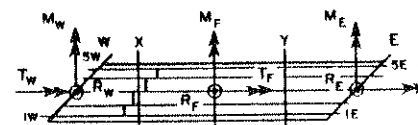
TABLE 28A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 40 KSI COND. LOADING.  
 YF = MOMENT AT FOOTING ABOUT Y-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

NORMALIZED POINT LOADS AT

REACTION OR LOAD	SX		SY		SX+SY	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	-9.37	-9.58	-17.22	-15.32	-26.59	-21.23
2E	-3.21	-4.21	4.43	-4.47	1.23	-6.54
3E	.04	1.16	14.65	11.76	14.70	11.64
4E	1.60	2.26	16.67	23.58	18.27	24.81
5E	2.42	1.80	13.95	13.49	16.37	15.07
1F	11.69	11.47	70.62	76.90	82.31	85.80
2F	-5.32	-8.83	4.74	3.66	-0.58	-7.22
3F	16.28	18.00	-34.12	-37.12	-17.84	-19.21
4F	33.29	40.76	31.76	36.07	65.05	79.00
1W	-10.65	-9.32	-6.80	-4.13	-17.45	-12.88
2W	-7.19	-6.09	-7.24	-6.43	-14.43	-11.84
3W	.06	-1.82	-5.57	-6.59	-5.51	-8.87
4W	17.39	17.30	.51	.47	17.90	18.10
5W	52.05	52.35	13.61	10.20	65.66	61.00
RE	-8.51	-8.57	32.48	33.04	23.98	23.75
RF	55.98	61.40	73.00	79.42	128.98	139.30
RW	52.56	52.35	-5.48	-6.48	47.08	46.54
SUMR	100.00	105.18	100.00	105.98	200.00	208.68
PX	-100.00	-100.00	0.	-.06	-100.00	-101.87
PY	0.	-.06	-100.00	-100.00	-100.00	-98.13
SUMP	-100.00	-100.06	-100.00	-100.06	-200.00	-200.00
SUMR/SUMP	1.00	1.05	1.00	1.06	1.00	1.04
TW=-MW	390.26	377.66	124.87	91.42	515.14	461.82
MF	64.80	84.18	-116.60	-122.26	-51.81	-28.21
YF	51.02	64.59	197.65	212.51	248.67	297.08
YF=-ME	73.00	75.16	191.76	209.99	264.76	267.30
ACTUAL PX		-19.88		-.21		-19.84
ACTUAL PY		-.21		-19.13		-19.21



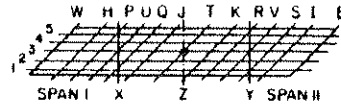
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 28B**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING,  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

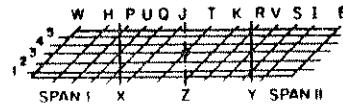
DEFLECTION AT POINT	5X			5Y			5X+5Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.107	-.294	2.75	.308	.412	1.34	.201	.119	.59
3H	-.216	-.437	2.02	.232	.342	1.48	.016	-.132	-8.47
5H	-.528	-.952	1.80	.083	.156	1.88	-.445	-.807	1.81
1P	-.208	-.479	2.30	.466	.614	1.32	.257	.138	.53
3P	-.357	-.706	1.98	.324	.502	1.55	-.033	-.264	8.05
1X	-.307	-.613	2.00	.645	.912	1.41	.338	.265	.78
2X	-.361			.502			.141		
3X	-.430	-.825	1.92	.363	.555	1.53	-.067	-.303	4.55
4X	-.516			.226			-.290		
5X	-.708	-1.361	1.92	.093	.212	2.28	-.615	-1.164	1.89
1U	-.287	-.616	2.14	.580	.833	1.44	.293	.205	.70
5U	-.585	-1.097	1.88	.042	.141	3.33	-.542	-.965	1.78
3O	-.381	-.707	1.85	.344	.517	1.51	-.038	-.206	5.43
5O	-.408	-.724	1.78	-.077	-.011	.14	-.485	-.751	1.55
1J	-.244	-.435	1.78	.651	.929	1.43	.407	.438	1.08
3J	-.233	-.414	1.78	.258	.383	1.48	.025	-.058	-2.29
5J	-.213	.005	-0.02	-.270	-.016	.06	-.483	.009	-0.02
1T	-.044	-.083	1.89	.529	.749	1.42	.485	.604	1.25
2T	-.021			.272			.250		
4T	.006			-.327			-.321		
5T	.009	.027	3.08	-.704	-.994	1.41	-.695	-.928	1.33

**TABLE 28C**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN IY

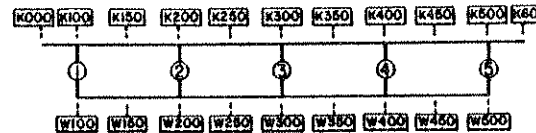
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	5X			5Y			5X+5Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	.115	.217	1.88	.277	.247	1.04	.752	.467	1.32
3K	.109	.215	1.98	-.409	-.656	1.60	-.700	-.408	1.36
5K	.087	.192	2.22	-1.298	-2.055	1.58	-1.211	-1.763	1.46
1P	.164	.326	1.99	.005	-.109		.168	.242	1.44
3R	.132	.274	2.08	-.657	-1.022	1.66	-.525	-.743	1.42
1Y	.149	.302	2.02	-.281	-.548	1.95	-.132	-.174	1.32
2Y	.135			-.514			-.379		
3Y	.123	1.712		-.789	-.969	1.23	-.666	-.879	1.32
4Y	.109			-1.170			-1.021		
5Y	.093	.236	2.54	-1.572	-2.616	1.66	-1.479	-2.259	1.53
1V	.173	.346	2.00	-.185	-.421	2.28	-.012	-.011	.98
5V	.078	.200	2.56	-1.461	-2.370	1.62	-1.383	-2.033	1.47
3S	.093	.204	2.20	-.756	-1.242	1.64	-.664	-.953	1.44
5S	.053	.160	3.01	-1.161	-1.813	1.56	-1.109	-1.553	1.40
1T	.102	.194	1.90	-.252	-.434	1.72	-.150	-.196	1.31
3I	.053	.126	2.36	-.559	-.916	1.64	-.505	-.734	1.45
5I	.026	.088	3.36	-.758	-1.158	1.53	-.731	-.997	1.36
LOAD PX	-100.0	-100.0		0.	-.1		-100.0	-101.0	
LOAD PY	0.	-.1		-100.0	-100.0		-100.0	-98.1	
ACTUAL PX		-19.9			-.0			-19.0	
ACTUAL PY		-.0			-19.1			-19.2	

TABLE 28D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

1 KIP = 4.448 kN  
 1 IN = 25.4 mm

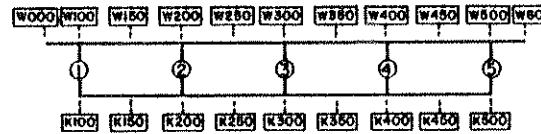
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-175	-1490	-330	116	1040	235	-58	-655	-123
K	K100	-201	-348	-410	137	245	277	-63	-132	-161
K	K150	-174	-410	-270	119	292	203	-55	-220	-105
K	K200	-190	-155	-169	121	125	146	-69	-42	-43
K	K250	-183	-155	-164	120	162	135	-62	-19	-20
K	K300	-185	-286	-190	120	141	141	-65	-169	-31
K	K350	-221	-165	-200	120	115	125	-101	-55	-66
K	K400	-277	-342	-219	120	120	104	-156	-236	-121
K	K450	-334	-247	-290	120	88	94	-213	-156	-186
K	K500	-461	-368	-320	142	94	88	-318	-249	-205
K	K600	-430	-102	-103	120	10	10	-309	-112	-115
W	W100	438	771	757	-315	-339	-345	122	421	421
W	W150	510	599	684	-366	-256	-240	144	364	364
W	W200	643	641	701	-427	-334	-321	216	301	324
W	W250	659	777	691	-442	-230	-298	216	504	536
W	W300	718	1094	1041	-463	-282	-282	254	764	754
W	W350	875	933	890	-465	-193	-209	409	717	685
W	W400	1118	1167	1119	-467	-256	-279	651	837	803
W	W450	1290	1355	1344	-416	-266	-271	874	1055	934
W	W500	1362	730	827	-374	-193	-172	988	462	482
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-101.9	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-98.1	
ACTUAL	PX (KIPS)		-19.9			-.0			-19.9	
ACTUAL	PY (KIPS)		-.0			-19.1			-19.2	

**TABLE 28E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



**SECTION B**

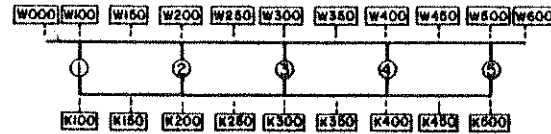
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		SX			SY			SX+SY		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
W	W000	-103	188	-26	538	240	512	435	426	431
W	W100	-103	-26	-26	538	512	507	435	431	428
W	W150	-9	57	59	444	318	324	435	353	361
W	W200	98	156	151	430	365	373	538	504	505
W	W250	163	302	270	339	292	298	503	582	555
W	W300	289	401	324	328	308	311	617	701	618
W	W350	266	323	356	371	339	350	638	644	684
W	W400	275	417	426	387	554	538	662	914	910
W	W450	292	453	424	398	402	365	690	826	764
W	W500	416	485	474	525	507	512	942	946	942
W	W600	416	438	438	525	528	528	942	946	946
K	K100	38	-43	-43	-212	-245	-245	-173	-257	-259
K	K150	1	-131	-124	-197	-371	-339	-196	-436	-407
K	K200	-39	-57	-60	-185	-193	-219	-225	-224	-242
K	K250	-79	-154	-140	-177	-203	-156	-256	-325	-285
K	K300	-167	-252	-209	-209	-141	-162	-377	-370	-376
K	K350	-154	-139	-172	-221	-209	-182	-376	-322	-353
K	K400	-164	-207	-147	-231	-193	-198	-396	-368	-325
K	K450	-171	-241	-274	-228	-230	-230	-470	-445	-473
K	K500	-210	-167	-164	-265	-287	-287	-475	-429	-425
LOAD	PX (KIPS)	-100.0	-100.0		0.	-0.1		-100.0	-101.9	
LOAD	PY (KIPS)	0.	-0.1		-100.0	-100.0		-100.0	-98.1	
ACTUAL	PX (KIPS)		-19.9			-0.			-19.9	
ACTUAL	PY (KIPS)		-0.			-19.1			-19.2	

TABLE 28F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

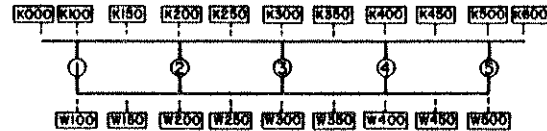
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	265	-42	219	430	397	230	695	296	296
W	W100	265	219	220	430	230	224	695	421	418
W	W150	233	271	259	301	282	277	534	520	501
W	W200	243	297	303	269	277	284	512	551	563
W	W250	233	229	251	255	339	298	488	525	496
W	W300	163	219	217	233	428	428	396	629	626
W	W350	205	193	197	166	256	282	372	436	461
W	W400	328	245	233	191	433	423	520	639	627
W	W450	312	297	293	126	585	601	439	852	869
W	W500	359	229	237	151	507	509	510	733	737
W	W600	359	302	302	151	690	690	510	998	998
K	K100	-131	-151	-150	-202	-230	-240	-334	-355	-359
K	K150	-135	-174	-181	-169	-287	-177	-304	-428	-394
K	K200	-146	-165	-152	-157	-182	-266	-303	-319	-358
K	K250	-140	-162	-168	-146	-224	-182	-287	-360	-328
K	K300	-101	-171	-189	-125	-193	-36	-226	-326	-289
K	K350	-130	-248	-173	-102	26	20	-232	-202	-234
K	K400	-140	-127	-143	-85	-125	-31	-226	-236	-199
K	K450	-143	-159	-149	-79	-83	-99	-222	-227	-240
K	K500	-141	-132	-133	-101	-245	-224	-242	-352	-347
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-101.9	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-98.1	
ACTUAL	PX (KIPS)		-19.9			-.0			-19.9	
ACTUAL	PY (KIPS)		-.0			-19.1			-19.2	



**TABLE 28G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



**SECTION D**

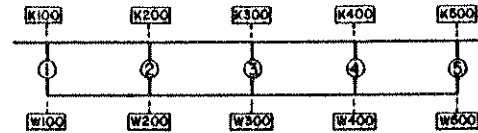
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	36	16	16	-295	-167	-167	-259	-133	-133
K	K100	42	23	22	-350	-240	-243	-308	-186	-188
K	K150	34	15	37	-303	-256	-277	-268	-229	-223
K	K200	33	28	29	-320	-355	-352	-286	-293	-289
K	K250	33	22	23	-337	-309	-324	-304	-265	-270
K	K300	32	31	30	-369	-169	-363	-337	-301	-302
K	K350	32	26	26	-401	-345	-355	-368	-294	-305
K	K400	32	32	35	-456	-470	-473	-424	-406	-406
K	K450	32	56	61	-508	-465	-507	-475	-395	-424
K	K500	38	62	60	-644	-533	-538	-606	-440	-448
K	K600	32	78	78	-580	-920	-920	-548	-786	-786
W	W100	-112	-151	-152	870	1113	1129	757	868	876
W	W150	-119	-120	-123	1000	805	841	881	613	670
W	W200	-130	-188	-184	1198	1108	1105	1067	857	866
W	W250	-128	-120	-132	1275	1077	1056	1146	904	863
W	W300	-126	0	-142	1412	0	1218	1285	0	989
W	W350	-120	-109	-99	1498	1097	1107	1377	920	1026
W	W400	-114	21	17	1666	1531	1534	1552	1460	1465
W	W450	-100	-109	-127	1695	1097	1369	1594	951	1154
W	W500	-88	-57	-54	1608	1014	1087	1520	863	906
LOAD	PX (K LBS)	-100.0	-100.0		0.	-.1		-100.0	-101.9	
LOAD	PY (K LBS)	0.	-.1		-100.0	-100.0		-100.0	-98.1	
ACTUAL	PX (K LBS)		-19.9			-.0			-19.9	
ACTUAL	PY (K LBS)		-.0			-19.1			-19.2	

TABLE 28H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

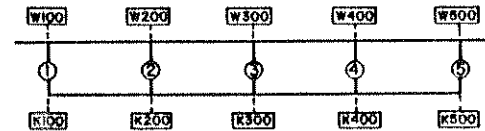
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	20	-26		78	36		98	17	
K	K200	7	-52		83	73		91	16	
K	K300	-20	-38		98	73		78	30	
K	K400	-91	-95		105	125		14	13	
K	K500	-243	-142		133	88		-110	-71	
W	W100	-34	68		-99	-20		-134	-5	
W	W200	-3	245		-105	-198		-109	42	
W	W300	36	146		-117	-240		-90	-83	
W	W400	120	782		-130	-104		-10	676	
W	W500	259	1042		-144	-198		114	842	
SECTION F										
K	K100	-105	-137		117	104		11	-47	
K	K200	-133	-205		112	156		-20	-73	
K	K400	-274	-461		127	177		-146	-315	
K	K500	-319	-204		163	141		-156	-64	
W	W100	104	328		-127	-230		-22	109	
W	W200	163	422		-140	-287		22	156	
W	W400	365	1027		-161	-261		203	759	
W	W500	334	2016		-175	-219		159	1818	

**TABLE 281**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

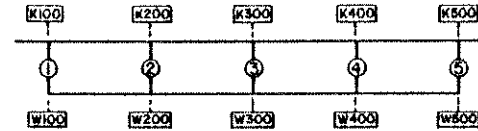
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	SX			SY			SX+SY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
K	W100	-171	-115		168	135		-3	-5	
K	W200	-101	-182		151	360		40	104	
K	W300	-40	-16		151	548		111	452	
K	W400	29	141		164	419		194	509	
K	W500	69	302		185	454		254	748	
W	K100	179	379		-175	-440		4	-19	
W	K200	123	123		-188	-250		-64	-91	
W	K300	50	60		-188	-270		-137	-127	
W	K400	-31	-86		-201	-193		-233	-255	
W	K500	-71	-70		-192	-235		-264	-285	
SECTION K										
K	W100	116	177		58	109		175	301	
K	W200	91	219		-4	41		87	255	
K	W300	90	224		-65	-20		25	197	
K	W400	84	297		-148	-282		-63	-69	
K	W500	84	188		-306	-433		-221	-279	
W	K100	-123	-194		-54	-115		-178	-293	
W	K200	-112	-132		13	-41		-98	-161	
W	K300	-111	-137		95	99		-26	-35	
W	K400	-106	-137		183	282		77	115	
W	K500	-98	-145		306	407		217	254	

TABLE 28J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	70	96		-294	-402		-223	-276	
K	K200	46	66		-305	-365		-258	-269	
K	K400	20	20		-395	-397		-374	-346	
K	K500	14	26		-338	-203		-324	-162	
W	W100	-76	-214		292	763		215	452	
W	W200	-58	-203		369	898		310	577	
W	W400	-26	-177		507	1709		481	1475	
W	W500	-14	-136		351	2750		337	2576	
SECTION I										
K	K100	25	2		-351	-193		-326	-164	
K	K200	6	1		-292	-303		-286	-281	
K	K300	-3	-11		-275	-256		-278	-254	
K	K400	-7	-8		-218	-193		-226	-188	
K	K500	-10	-1		-174	-109		-184	-99	
W	W100	-26	-57		371	564		344	442	
W	W200	-7	-36		355	904		347	805	
W	W300	2	-47		333	878		335	779	
W	W400	8	21		274	799		282	800	
W	W500	14	5		216	250		231	218	

**TABLE 28K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				5Y				5X+5Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	59.7	14.2	59.4	12.7	-40.3	19.2	-21.6	15.9	19.5	9.2	33.7	10.4
A	2	66.0	15.6	79.0	16.4	-42.7	20.3	-33.4	24.7	23.3	11.0	44.2	13.7
A	3	68.5	16.2	105.4	21.9	-42.6	20.3	-29.5	21.7	25.8	12.2	80.0	24.8
A	4	97.9	23.2	142.4	29.6	-42.7	20.4	-32.1	23.7	55.0	25.9	103.4	32.0
A	5	130.0	30.8	95.1	19.8	-41.4	19.7	-19.1	14.1	88.5	41.7	61.8	19.1
A	SUM	421.9		481.2		-209.7		-135.6		212.2		323.0	
D	1	-12.2	20.9	-13.6	21.7	103.3	14.9	97.7	15.5	91.1	14.3	76.8	14.6
D	2	-11.9	20.4	-20.3	32.4	114.1	16.4	131.4	20.9	102.2	16.1	104.5	19.9
D	3	-11.5	19.7	-15.7	25.1	131.2	18.0	139.6	22.2	119.7	18.8	114.0	21.9
D	4	-11.4	19.6	-5.2	8.2	160.8	23.2	154.8	24.6	149.4	23.5	140.9	26.8
D	5	-11.3	19.4	-7.9	12.7	184.8	26.6	106.3	16.9	173.6	27.3	88.3	16.8
D	SUM	-53.3		-62.7		694.2		629.9		635.9		525.4	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	38.8	9.3	122.5	29.9	-28.2	13.5	-88.1	34.7	10.6	5.1	46.0	27.0
A	2	73.8	17.6	65.0	15.8	-50.2	24.1	-54.6	21.5	23.6	11.2	17.3	10.1
A	3	80.3	19.2	62.1	15.1	-50.2	24.1	-49.9	19.6	30.1	14.3	9.9	5.8
A	4	123.3	29.4	77.8	19.0	-50.6	24.3	-38.0	15.0	72.7	34.5	40.5	23.7
A	5	102.6	24.5	82.6	20.1	-29.2	14.0	-23.2	9.2	73.4	34.9	57.2	33.5
A	SUM	418.8		410.2		-209.5		-253.9		210.3		179.8	
D	1	-8.7	14.9	-9.2	12.1	68.1	9.9	87.7	11.0	59.4	9.4	69.1	10.4
D	2	-14.2	24.5	-11.4	15.0	129.3	18.7	133.3	16.7	115.1	18.2	110.3	16.6
D	3	-13.7	23.7	-10.6	13.9	152.9	22.2	141.7	17.7	139.2	22.0	119.1	17.9
D	4	-13.6	23.4	-17.3	22.7	198.7	29.8	185.8	23.2	185.1	29.3	156.2	23.5
D	5	-7.9	13.5	-27.7	36.3	140.8	20.4	250.8	31.4	133.0	21.1	210.7	31.7
D	SUM	-58.0		-75.4		689.8		799.3		631.8		665.4	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-1		-100.0		-101.9	
LOAD	PY (KIPS)	0.		-1		-100.0		-100.0		-100.0		-98.1	
ACTUAL	PX (KIPS)			-19.9				-1				-19.9	
ACTUAL	PY (KIPS)			-1				-19.1				-19.2	

TABLE 28L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



I KIP = 4.448 kN  
I FT = 0.305 m

I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				5Y				5X+5Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	48.0	11.4	91.9	20.8	-33.5	16.0	-56.1	28.5	14.5	6.9	39.9	16.5
A	2	70.4	16.7	71.3	16.1	-46.9	22.4	-44.3	22.6	23.5	11.1	30.0	12.4
A	3	75.1	17.9	82.3	19.6	-46.9	22.4	-40.0	20.3	28.2	13.4	43.1	17.8
A	4	112.1	26.7	108.1	24.5	-47.2	22.6	-35.0	17.8	64.9	30.7	70.1	28.9
A	5	114.6	27.3	88.1	20.0	-34.6	16.5	-21.1	10.8	80.0	37.9	59.1	24.4
A	SUM	420.2		441.8		-209.1		-196.4		211.1		242.2	
D	1	-10.2	17.6	-11.6	17.1	83.5	12.1	92.9	13.1	73.3	11.6	73.1	12.4
D	2	-13.2	22.7	-16.2	23.9	122.6	17.7	132.3	18.7	109.4	17.3	107.2	18.2
D	3	-12.8	22.0	-13.4	19.7	143.4	20.7	140.5	19.8	130.6	20.6	116.8	19.8
D	4	-12.6	21.8	-10.8	16.0	182.1	26.3	169.2	23.9	169.4	26.7	147.9	25.0
D	5	-9.3	16.1	-15.8	23.3	160.2	23.2	173.8	24.5	150.8	23.8	145.4	24.6
D	SUM	-58.1		-67.8		691.7		708.7		633.6		590.5	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	48.4	11.5	83.3	18.7	-33.6	16.1	-56.0	30.4	15.0	7.1	35.8	12.8
A	2	70.2	16.7	69.5	15.6	-46.9	22.4	-39.6	21.9	23.5	11.1	35.8	12.8
A	3	75.0	17.9	88.0	19.8	-46.8	22.4	-36.6	19.9	28.1	13.3	66.6	23.9
A	4	112.1	26.7	117.6	26.5	-47.1	22.5	-32.1	17.4	65.0	30.8	83.7	30.0
A	5	114.0	27.2	85.9	19.3	-34.6	16.6	-20.0	10.9	79.5	37.7	57.2	20.5
A	SUM	419.7		444.2		-209.0		-184.5		211.1		279.0	
D	1	-10.2	17.5	-12.7	16.4	84.2	12.2	93.9	13.8	74.0	11.7	73.9	13.1
D	2	-13.2	22.7	-18.6	24.0	122.4	17.7	130.0	19.2	109.2	17.2	104.6	18.5
D	3	-12.8	21.9	-14.4	18.7	143.1	20.7	137.9	20.3	130.4	20.6	114.1	20.2
D	4	-12.6	21.7	-12.9	16.6	182.1	26.3	160.3	23.6	169.4	26.8	142.1	25.1
D	5	-9.4	16.1	-18.8	24.2	159.5	23.1	156.0	23.0	150.2	23.7	110.5	23.1
D	SUM	-58.1		-77.4		691.3		678.2		633.2		565.2	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-.1		-100.0		-101.9	
LOAD	PY (KIPS)	0.		-.1		-100.0		-100.0		-100.0		-98.1	
ACTUAL	PX (KIPS)			-19.9				-.0				-19.9	
ACTUAL	PY (KIPS)			-.0				-19.1				-19.2	

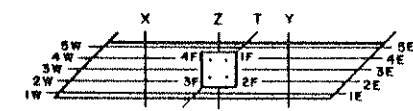
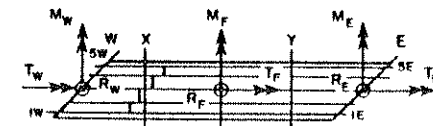
TABLE 29A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS  
 MF = MOMENT AT FOOTING ABOUT Y-AXIS  
 TE = MOMENT AT FOOTING ABOUT X-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT			
	1X+5Y		5X+1Y	
	THEORY	EXPERM	THEORY	EXPERM
1E	-3.55	-9.09	44.70	42.76
2F	4.95	3.79	13.61	14.97
3E	9.00	7.86	-0.78	-2.69
4E	9.43	14.83	-5.79	-7.40
5E	7.14	7.87	-7.57	-5.22
1F	36.65	33.81	27.69	29.06
2F	36.22	35.26	27.64	25.48
3F	16.31	46.81	28.17	31.69
4F	16.74	38.49	28.21	30.12
1W	7.07	7.32	-8.32	-6.38
2W	9.38	11.18	-5.62	-5.17
3W	9.34	15.49	.12	-1.21
4W	5.28	3.87	14.25	15.10
5W	-4.05	-11.39	43.69	41.86
RE	27.06	25.26	44.17	42.42
RF	145.93	154.37	111.71	116.35
RW	27.02	26.47	44.12	44.20
SUMP	200.00	206.10	200.00	202.97
PX	-100.00	-101.60	-100.00	-100.27
PY	-100.00	-99.40	-100.00	-99.73
SUMP	-200.00	-200.00	-200.00	-200.00
SUMP/SUMP	1.00	1.01	1.00	1.01
TW=-MW	-67.76	-115.02	318.52	300.21
ME	.27	24.74	1.57	10.90
TF	1.28	-14.66	.15	3.01
TE=-MF	66.48	115.61	-318.67	-304.27
ACTUAL PX		-19.49		-19.88
ACTUAL PY		-18.97		-19.77



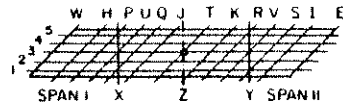
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 29B**

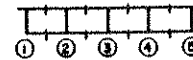
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT  
 1X+5Y  
 5X+1Y

DEFLECTION AT POINT	***** 1X+5Y *****			***** 5X+1Y *****			*****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	F/T	THEORY	EXPERM	E/T
1H	-.427	-.811	1.90	-.090	-.194	2.42			
3H	-.339	-.652	1.92	-.164	-.320	1.96			
5H	-.190	-.334	1.75	-.426	-.768	1.80			
1P	-.647	-1.262	1.95	-.155	-.321	2.07			
3P	-.460	-.871	1.89	-.265	-.502	1.89			
1X	-.849	-1.748	2.06	-.216	-.386	1.79			
2X	-.600			-.255					
3X	-.454	-.891	1.96	-.310	-.569	1.84			
4X	-.326			-.383					
5X	-.214	-.400	1.87	-.559	-1.079	1.93			
1U	-.790	-1.584	2.00	-.210	-.404	1.92			
5U	-.157	-.288	1.83	-.414	-.758	1.83			
3O	-.324	-.653	2.01	-.253	-.437	1.73			
5O	-.075	-.118	1.57	-.250	-.430	1.72			
1J	-.607	-1.188	1.95	-.159	-.260	1.63			
3J	-.155	-.316	2.04	-.127	-.214	1.69			
5J	-.031	-.019	.60	-.106	.023	-.22			
1T	-.169	-.307	1.82	-.038	-.050	1.32			
2T	-.053			-.017					
4T	-.055			-.015					
5T	-.176	-.243	1.39	-.035	-.063	1.78			

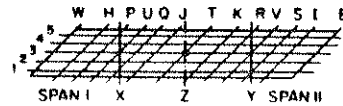


**TABLE 29C**

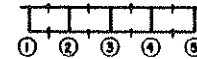
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

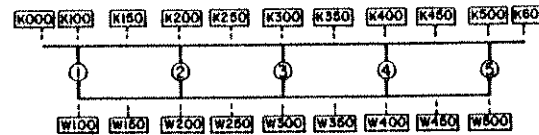
NORMALIZED POINT LOADS AT  
 SX+1Y

DEFLECTION AT POINT	1X+5Y *****			5X+1Y *****			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.074	-.082	2.42	-.113	-.126	1.64			
3K	-.151	-.257	1.70	-.113	-.128	1.67			
5K	-.647	-1.075	1.66	-.137	-.220	1.60			
1D	-.074	-.152	2.05	-.285	-.475	1.67			
3R	-.314	-.561	1.79	-.223	-.377	1.69			
1Y	-.190	-.357	1.88	-.632	-1.159	1.83			
2Y	-.288			-.407					
3Y	-.426	-.685	1.61	-.280	-.457	1.63			
4Y	-.629			-.215					
5Y	-.927	-1.646	1.78	-.188	-.330	1.76			
1V	-.145	-.280	1.93	-.496	-.869	1.75			
5V	-.080	-1.489	1.69	-.103	-.377	1.96			
3S	-.433	-.750	1.73	-.252	-.479	1.90			
5S	-.696	-1.121	1.61	-.151	-.318	2.10			
1T	-.170	-.299	1.76	-.463	-.796	1.72			
3I	-.327	-.559	1.71	-.157	-.319	2.03			
5I	-.450	-.719	1.60	-.083	-.193	2.34			
LOAD PX	-100.0	-101.6		-100.0	-100.7				
LOAD PY	-100.0	-98.4		-100.0	-99.7				
ACTUAL PY		-19.5			-19.9				
ACTUAL PY		-18.9			-19.8				

TABLE 29D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

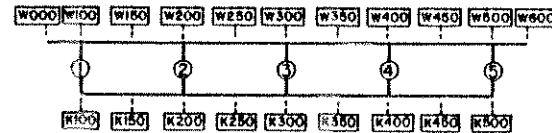
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-296	-1597	-565	-143	-1020	-237			
K	K100	-357	-590	-671	-163	-251	-295			
K	K150	-336	-643	-499	-142	-301	-203			
K	K200	-329	-336	-359	-160	-126	-136			
K	K250	-305	-317	-332	-151	-126	-136			
K	K300	-312	-401	-333	-151	-231	-159			
K	K350	-259	-251	-290	-187	-149	-177			
K	K400	-230	-281	-222	-242	-302	-208			
K	K450	-212	-183	-204	-298	-233	-277			
K	K500	-245	-231	-213	-417	-359	-299			
K	K600	-218	-75	-76	-393	-119	-121			
W	W100	815	1515	1487	352	573	515			
W	W150	1103	1111	1139	414	453	448			
W	W200	1181	1271	1290	536	521	581			
W	W250	1121	814	1003	541	594	561			
W	W300	1158	1313	1272	586	876	832			
W	W350	963	867	801	741	750	740			
W	W400	856	760	780	982	948	917			
W	W450	714	622	661	1166	1146	1179			
W	W500	639	287	307	1247	563	650			
LOAD	PX (KIPS)	-100.0	-101.6		-100.0	-100.3				
LOAD	PY (KIPS)	-100.0	-98.4		-100.0	-99.7				
ACTUAL	PX (KIPS)		-19.5			-19.9				
ACTUAL	PY (KIPS)		-18.9			-19.8				

TABLE 29E

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

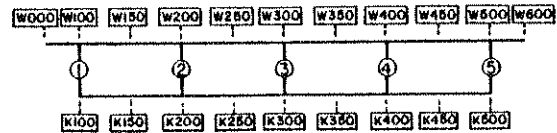
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	IX+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	602	675	1111	271	645	261			
W	W100	602	1111	1100	271	261	256			
W	W150	525	681	711	315	202	288			
W	W200	606	760	779	435	443	436			
W	W250	535	617	645	411	558	505			
W	W300	570	820	772	447	615	520			
W	W350	637	760	791	487	495	532			
W	W400	667	909	876	499	646	660			
W	W450	706	673	569	499	693	649			
W	W500	956	738	741	641	693	679			
W	W600	956	760	760	641	605	605			
K	K100	-272	-508	-507	-108	-157	-158			
K	K150	-252	-418	-422	-148	-387	-346			
K	K200	-258	-296	-296	-185	-151	-177			
K	K250	-277	-260	-250	-211	-311	-250			
K	K300	-340	-272	-298	-266	-380	-356			
K	K350	-375	-435	-354	-287	-244	-292			
K	K400	-396	-348	-383	-297	-339	-254			
K	K450	-403	-414	-397	-287	-410	-473			
K	K500	-468	-465	-463	-316	-290	-286			
LOAD	PX (KIPS)	-100.0	-101.6		-100.0	-100.3				
LOAD	PY (KIPS)	-100.0	-98.4		-100.0	-99.7				
ACTUAL	PX (KIPS)		-10.5			-10.0				
ACTUAL	PY (KIPS)		-18.0			-19.8				

TABLE 29F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

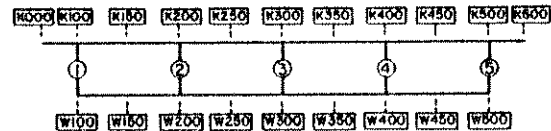
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	913	877	877	727	151	688			
W	W100	913	633	618	727	688	694			
W	W150	678	787	750	552	756	743			
W	W200	645	675	700	530	865	868			
W	W250	623	622	583	496	683	752			
W	W300	563	787	787	432	526	532			
W	W350	452	516	567	317	391	376			
W	W400	635	755	739	386	412	396			
W	W450	572	1042	1054	271	287	301			
W	W500	687	915	918	227	146	154			
W	W600	687	1271	1271	227	130	130			
K	K100	-444	-551	-563	-366	-341	-337			
K	K150	-384	-721	-608	-326	-339	-365			
K	K200	-381	-386	-453	-321	-370	-301			
K	K250	-365	-415	-366	-297	-315	-359			
K	K300	-335	-374	-315	-258	-369	-390			
K	K350	-282	-211	-253	-194	-411	-296			
K	K400	-273	-295	-227	-162	-153	-168			
K	K450	-277	-299	-327	-125	-177	-169			
K	K500	-313	-474	-463	-87	-143	-144			
LOAD	PX (KIPS)	-100.0	-101.6		-100.0	-100.3				
LOAD	PY (KIPS)	-100.0	-98.4		-100.0	-99.7				
ACTUAL	PX (KIPS)		-19.5			-19.9				
ACTUAL	PY (KIPS)		-18.9			-19.8				

**TABLE 29G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

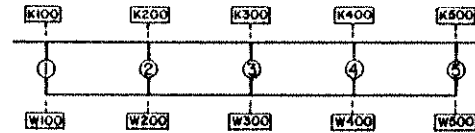
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-174	-93	-93	-387	-244	-244			
K	K100	-207	-129	-131	-417	-274	-284			
K	K150	-182	-145	-162	-314	-243	-303			
K	K200	-200	-212	-211	-262	-261	-260			
K	K250	-217	-183	-199	-209	-179	-196			
K	K300	-249	-243	-247	-179	-161	-163			
K	K350	-281	-231	-238	-150	-127	-132			
K	K400	-337	-340	-343	-135	-129	-132			
K	K450	-389	-361	-395	-120	-115	-121			
K	K500	-506	-410	-413	-134	-127	-126			
K	K600	-463	-729	-729	-112	-162	-162			
W	W100	494	755	782	1225	1678	1727			
W	W150	584	526	519	1216	1115	1146			
W	W200	733	766	747	1066	1214	1199			
W	W250	812	723	717	826	761	782			
W	W300	950	9	854	682	0	627			
W	W350	1057	792	854	532	433	459			
W	W400	1243	1095	1120	465	568	556			
W	W450	1729	798	917	333	344	340			
W	W500	1288	681	661	266	375	402			
LOAD	PX (KIPS)	-100.0	-101.6		-100.0	-100.3				
LOAD	PY (KIPS)	-100.0	-98.4		-100.0	-99.7				
ACTUAL	PX (KIPS)		-100.5			-100.9				
ACTUAL	PY (KIPS)		-100.0			-100.8				

TABLE 29H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, F, F, G



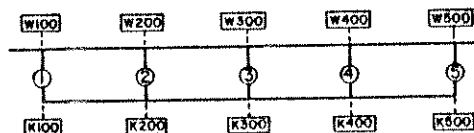
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-116	-82		10	-28				
K	K200	-132	-151		0	-46				
K	K300	-167	-178		-23	-38				
K	K400	-190	-259		-85	-97				
K	K500	-241	-189		-218	-147				
W	W100	144	85		-20	87				
W	W200	169	510		3	208				
W	W300	203	649		38	141				
W	W400	232	404		112	688				
W	W500	263	659		232	928				
SECTION F										
K	K100	-222	-228		-90	-111				
K	K200	-328	-430		-112	-166				
K	K400	-220	-328		-224	-396				
K	K500	-155	-134		-240	-137				
W	W100	244	409		89	245				
W	W200	404	1063		137	339				
W	W400	262	718		301	886				
W	W500	150	830		246	1876				

**TABLE 291**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



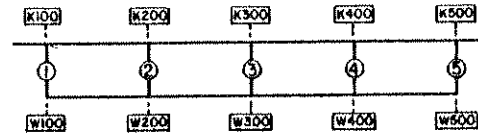
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		IX45Y			5X+1Y					
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-164	-69		-87	-42				
W	W200	-5	144		-15	5				
W	W300	90	596		50	240				
W	W400	172	505		116	365				
W	W500	256	665		173	542				
K	K100	168	1177		92	74				
K	K200	8	49		16	-5				
K	K300	-107	-187		-60	-39				
K	K400	-207	-191		-136	-228				
K	K500	-264	-358		-178	-222				
SECTION K										
W	W100	278	521		217	485				
W	W200	158	429		127	396				
W	W300	85	367		41	151				
W	W400	7	69		-15	47				
W	W500	-179	-96		-67	-89				
K	K100	-241	-331		-236	-427				
K	K200	-185	-262		-150	-132				
K	K300	-107	-117		-49	-47				
K	K400	-7	22		14	-4				
K	K500	131	142		62	46				

TABLE 29J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 40 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST

SECTION G

K	K100	-133	-187		-397	-605				
K	K200	-177	-209		-296	-319				
K	K400	-283	-279		-118	-122				
K	K500	-221	-128		-102	-111				
W	W100	120	340		476	1272				
W	W200	208	590		391	834				
W	W400	368	1287		142	563				
W	W500	224	2243		109	412				

SECTION I

K	K100	-217	-110		-196	-34				
K	K200	-186	-205		-79	-56				
K	K300	-177	-170		-26	7				
K	K400	-134	-121		-8	-3				
K	K500	-96	-64		-2	-22				
W	W100	225	383		198	334				
W	W200	225	649		103	443				
W	W300	215	633		42	334				
W	W400	168	500		17	47				
W	W500	117	122		-2	47				



**TABLE 29K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1X+5Y			
		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL
		K-FT	PCT	K-FT	PCT

NORMALIZED POINT LOADS AT			
5X+1Y			
*****		*****	
THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL
K-FT	PCT	K-FT	PCT

*****			
THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL
K-FT	PCT	K-FT	PCT

MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH

A	1	106.7	21.9	109.2	21.9	48.7	13.4	38.7	10.0
A	2	115.5	23.9	114.4	26.8	55.1	15.2	61.8	16.0
A	3	107.0	22.1	123.6	24.6	56.6	15.6	85.3	22.1
A	4	93.2	17.2	94.2	18.8	85.4	23.5	119.9	31.1
A	5	72.8	15.0	40.7	8.1	117.4	32.7	80.1	23.8
A	SUM	484.8		502.1		363.3		385.8	
D	1	61.8	12.7	64.6	15.2	118.6	32.6	145.2	32.9
D	2	71.6	14.8	87.0	20.4	92.4	25.4	138.7	31.4
D	3	88.8	18.3	97.7	22.0	63.8	17.5	73.3	16.6
D	4	118.5	24.4	110.2	25.9	48.4	13.3	52.2	11.8
D	5	144.7	29.8	66.2	15.6	40.5	11.1	32.3	7.3
D	SUM	485.0		425.7		363.6		441.7	

MOMENTS ABOUT TENSION FLANGE STEEL

A	1	77.7	16.1	208.2	34.9	31.3	8.7	89.4	25.7
A	2	139.7	29.0	171.1	22.4	60.9	16.9	51.3	14.7
A	3	121.2	25.1	111.5	19.0	66.2	18.4	52.8	15.2
A	4	93.8	19.4	81.4	13.9	108.5	30.1	73.9	21.3
A	5	50.0	10.4	57.6	9.8	93.7	26.0	80.2	23.1
A	SUM	482.5		585.8		360.6		347.6	
D	1	38.8	8.0	47.4	8.6	93.9	26.0	103.0	27.6
D	2	78.9	16.4	79.3	14.3	117.3	32.5	101.9	27.3
D	3	102.9	21.4	93.0	16.8	74.0	20.5	65.7	17.6
D	4	148.8	30.9	135.2	24.4	52.2	14.5	51.4	13.8
D	5	112.4	23.3	198.5	35.9	23.8	6.6	51.7	13.8
D	SUM	481.7		553.3		361.1		373.7	

LOAD	PX (KIPS)	-100.0	-101.6	-100.0	-100.3
LOAD	PY (KIPS)	-100.0	-98.4	-100.0	-99.7
ACTUAL	PX (KIPS)		-19.5		-19.9
ACTUAL	PY (KIPS)		-18.9		-19.8

TABLE 29L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 40 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

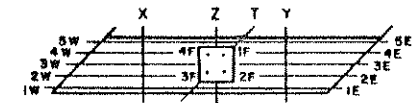
SECTION	GIRDER	IX+5Y				NORMALIZED POINT LOADS AT 5X+1Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	90.3	18.7	158.0	29.1	39.0	10.8	64.9	17.8				
A	2	129.1	26.7	131.9	24.3	58.4	16.1	56.0	15.4				
A	3	115.0	23.8	116.6	21.5	62.0	17.1	67.9	19.7				
A	4	89.2	18.4	87.1	16.0	98.3	27.2	95.3	26.2				
A	5	60.0	12.4	49.3	9.1	104.1	28.8	79.8	21.9				
A	SUM	483.5		543.0		361.8		364.0					
D	1	48.9	10.1	56.5	11.6	104.7	28.9	125.3	33.6				
D	2	75.7	15.7	83.4	17.2	106.3	29.4	121.5	29.7				
D	3	96.7	20.0	95.5	19.7	69.5	19.2	69.7	17.0				
D	4	135.5	28.0	121.8	25.1	50.5	13.9	51.8	12.6				
D	5	126.4	26.2	127.9	26.4	31.1	8.6	41.3	10.1				
D	SUM	483.2		485.1		362.2		409.7					
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	90.4	18.7	138.8	27.4	39.3	10.9	59.1	16.3				
A	2	129.0	26.7	123.6	24.4	58.7	16.1	54.4	15.0				
A	3	114.7	23.7	111.3	22.0	61.9	17.1	71.6	19.8				
A	4	89.0	18.4	84.1	16.6	98.4	27.2	100.1	27.7				
A	5	60.1	12.4	48.2	9.5	103.5	28.6	76.7	21.2				
A	SUM	483.3		506.0		361.4		362.0					
D	1	49.6	10.3	60.6	12.8	104.1	28.8	135.6	32.1				
D	2	75.5	15.6	83.8	17.7	106.4	29.4	129.1	30.5				
D	3	96.5	20.0	95.0	20.1	69.4	19.1	70.4	16.7				
D	4	135.6	28.1	114.9	24.2	50.4	13.9	51.1	12.1				
D	5	125.8	26.0	119.4	25.2	31.8	8.8	36.6	8.7				
D	SUM	482.9		473.7		362.2		422.8					
LOAD	PX (KIPS)	-100.0		-101.6		-100.0		-100.3					
LOAD	PY (KIPS)	-100.0		-98.4		-100.0		-99.7					
ACTUAL	PX (KIPS)			-19.5				-19.9					
ACTUAL	PY (KIPS)			-18.9				-19.8					

**TABLE 30A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 50 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT 3-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	1X		1Y		1X+1Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	13.66	10.78	54.07	52.03	67.73	62.15
2F	.52	-.10	16.81	16.47	17.33	15.99
3F	-5.56	-3.69	-.83	-3.49	-6.38	-7.46
4F	-7.24	-8.13	-7.39	-8.72	-14.63	-16.97
5F	-6.82	-5.29	-9.99	-5.60	-16.80	-10.57
1E	-33.98	-36.17	16.00	20.67	-17.97	-19.45
2E	31.48	30.53	32.96	29.80	64.44	59.83
3E	70.44	80.22	11.89	11.67	82.32	92.90
4E	4.98	1.50	-5.07	-2.78	-.09	-2.32
1W	13.87	11.57	2.33	2.27	16.20	13.42
2W	16.62	18.31	1.57	.55	18.19	19.02
3W	14.91	19.86	.06	.30	14.97	19.83
4W	4.77	1.05	-3.15	-3.12	1.62	-3.90
5W	-17.66	-19.41	-9.26	-8.44	-26.92	-23.96
9F	-5.42	-6.44	52.67	50.69	47.25	43.14
9E	72.92	76.08	55.77	59.36	128.69	130.96
9W	32.50	32.38	-8.44	-8.44	24.06	24.51
SUMP	100.00	102.03	100.00	101.61	100.99	198.61
9X	-100.00	-100.00	0.	0.	-100.00	-101.63
9Y	0.	.05	-100.00	-100.00	-100.00	-99.37
SUMP	-100.00	-99.95	-100.00	-100.00	-200.00	-209.00
SUMP/SUMP	1.00	1.02	1.00	1.02	1.00	.99
TW=-MW	-192.64	-198.59	-71.74	-64.52	-264.37	-259.92
ME	116.87	131.04	-63.23	-62.37	53.64	75.30
TF	-196.37	-218.15	-50.87	-35.37	-247.24	-261.75
TF=-ME	-125.27	-107.27	-391.67	-361.15	-516.95	-458.78
ACTUAL 9X		-20.04		-.0.		-19.53
ACTUAL 9Y		.91		-19.86		-18.21



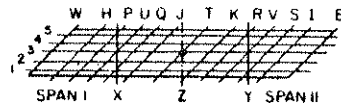
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 30B**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

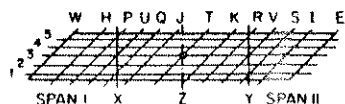
DEFLECTION AT POINT	1X *****			1Y *****			1X+1Y *****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.735	-1.187	1.61	.026	.097	3.66	-.709	-1.119	1.59
3H	-.571	-.983	1.72	.053	.129	2.46	-.518	-.865	1.67
5H	-.274	-.470	1.72	.102	.228	2.24	-.172	-.288	1.68
1P	-1.113	-1.862	1.67	.053	.138	2.62	-1.060	-1.712	1.62
3P	-.784	-1.346	1.72	.091	.210	2.31	-.693	-1.181	1.71
1X	-1.495	-2.691	1.80	.091	.217	2.38	-1.404	-2.527	1.80
2X	-1.102			.106			-.096		
3X	-.817	-1.426	1.75	.120	.270	2.25	-.697	-1.208	1.73
4X	-.552			.134			-.419		
5X	-.307	-.568	1.85	.149	.347	2.33	-.158	-.302	1.91
1U	-1.371	-2.400	1.75	.077	.200	2.59	-1.294	-2.267	1.75
5U	-.200	-.412	2.06	.171	.381	2.23	-.029	-.097	3.38
3Q	-.668	-1.162	1.74	.129	.283	2.20	-.539	-.921	1.71
5Q	.002	-.098		.158	.323	2.05	.160	.184	1.15
1J	-1.258	-2.131	1.69	.085	.209	2.46	-1.174	-1.976	1.68
3J	-.413	-.685	1.66	.106	.238	1.96	-.706	-.487	1.59
5J	.239	-.009	-.04	.107	.009	.08	.346	.008	.02
1T	-.698	-1.027	1.47	.007	.011	1.61	-.691	-1.001	1.45
2T	-.324			.005			-.320		
4T	.271			-.020			.251		
5T	.529	.744	1.41	-.044	-.104	2.36	.485	.652	1.34

**TABLE 30C**

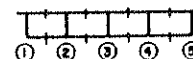
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

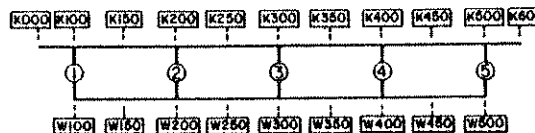
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	IX			IY			IX+IY		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.271	-.284	1.05	-.229	-.413	1.80	-.500	-.691	1.38
3K	.258	.415	1.61	-.221	-.413	1.86	.037	.015	.42
5K	.651	.932	1.43	-.224	-.498	2.22	.427	.511	1.20
1R	-.079	.013	-.17	-.449	-.822	1.83	-.528	-.788	1.49
3R	.343	.555	1.62	-.355	-.680	1.92	-.012	-.102	8.64
1Y	.091	.224	2.46	-.781	-1.561	2.00	-.690	-1.269	1.84
2Y	.226			-.542			-.316		
3Y	.363	.566	1.56	-.402	-.849	2.11	-.040	-.212	5.33
4Y	.501			-.324			.177		
5Y	.645	.908	1.41	-.281	-.595	2.12	.364	.320	.98
1V	.040	.178	4.44	-.668	-1.289	1.93	-.628	-1.059	1.69
5V	.581	.821	1.41	-.271	-.630	2.33	.310	.208	.67
3S	.323	.486	1.50	-.345	-.736	2.14	-.022	-.212	9.82
5S	.466	.644	1.38	-.294	-.529	2.59	.261	.133	.51
1I	.082	.173	2.10	-.565	-1.043	1.85	-.483	-.827	1.71
3I	.231	.321	1.39	-.216	-.482	2.30	.021	-.126	-5.88
5I	.339	.416	1.35	-.169	-.345	2.17	.199	.091	.46
LOAD PX	-100.0	-100.0		0.	0.		-100.0	-101.6	
LOAD PY	0.	.1		-100.0	-100.0		-100.0	-98.4	
ACTUAL PX		-20.0			0.			-10.5	
ACTUAL PY		.0			-19.2			-18.9	

TABLE 30D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

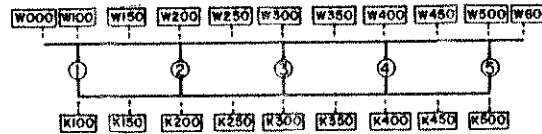
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-566	-2220	-773	43	486	100	-526	-2102	-709
K	K100	-531	-803	-893	38	102	112	-462	-737	-826
K	K150	-461	-773	-653	31	139	75	-430	-737	-605
K	K200	-456	-454	-478	30	36	43	-426	-413	-439
K	K250	-431	-439	-449	32	33	31	-399	-409	-415
K	K300	-438	-503	-454	34	65	32	-404	-450	-418
K	K350	-385	-359	-399	34	24	31	-350	-332	-365
K	K400	-356	-384	-319	35	51	27	-320	-342	-286
K	K450	-337	-279	-309	36	23	25	-301	-247	-275
K	K500	-393	-349	-324	43	24	24	-349	-307	-283
K	K600	-467	-99	-99	51	11	11	-416	-68	-68
W	W100	1130	1835	1825	-86	-162	-158	1044	1734	1743
W	W150	1470	1357	1362	-96	-125	-146	1373	1273	1284
W	W200	1608	1626	1626	-106	-120	-135	1501	1575	1554
W	W250	1564	1097	1227	-118	-162	-138	1446	1013	1086
W	W300	1622	1531	1494	-131	-230	-216	1490	1342	1315
W	W350	1429	1072	1032	-133	-177	-157	1296	939	922
W	W400	1324	987	1022	-136	-214	-206	1188	838	880
W	W450	1131	833	893	-124	-209	-175	1006	668	755
W	W500	1014	483	493	-115	-146	-149	899	424	433
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-101.6	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-98.4	
ACTUAL	PX (KIPS)		-20.0			0.			-19.5	
ACTUAL	PY (KIPS)		.0			-19.9			-18.9	

**TABLE 30E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

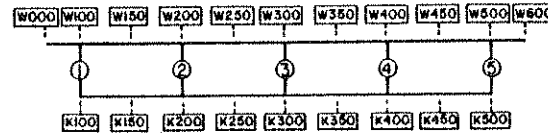
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
W	W000	64	410	563	374	480	313	438	950	934
W	W100	64	563	568	374	313	307	438	934	936
W	W150	80	330	360	324	224	220	405	500	634
W	W200	166	360	386	337	282	283	503	700	716
W	W250	196	274	300	287	235	219	443	546	575
W	W300	242	403	424	158	193	182	400	743	635
W	W350	266	400	424	220	162	178	486	605	600
W	W400	280	354	336	224	250	255	504	621	605
W	W450	308	190	180	207	214	200	515	456	426
W	W500	430	210	222	224	188	184	655	435	434
W	W600	430	204	204	224	136	136	655	387	397
K	K100	-60	-310	-304	-147	-134	-136	-207	-445	-445
K	K150	-54	-84	-80	-140	-310	-250	-204	-411	-411
K	K200	-72	-124	-80	-145	-125	-146	-218	-230	-241
K	K250	-90	-70	-90	-131	-160	-123	-231	-227	-210
K	K300	-130	-154	-124	-08	-120	-140	-220	-258	-277
K	K350	-153	-230	-180	-132	-122	-130	-286	-352	-314
K	K400	-165	-170	-224	-132	-154	-135	-297	-313	-331
K	K450	-174	-190	-174	-116	-206	-222	-291	-302	-382
K	K500	-203	-194	-190	-106	-150	-140	-300	-337	-338
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-101.6	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-98.4	
ACTUAL	PX (KIPS)		-70.0						-10.5	
ACTUAL	PY (KIPS)		.0			-10.0			-18.0	

TABLE 30F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

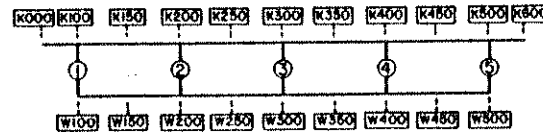
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	482	483	483	462	219	491	944	764	764
W	W100	482	384	374	462	491	497	944	918	913
W	W150	377	463	439	319	501	494	697	976	947
W	W200	376	379	396	286	569	566	663	997	1007
W	W250	368	279	269	263	459	516	632	743	784
W	W300	329	249	249	269	308	316	598	605	611
W	W350	286	229	249	112	204	192	398	477	473
W	W400	444	354	346	57	172	166	501	552	538
W	W450	445	483	493	-40	16	30	404	515	544
W	W500	535	414	416	-131	-52	-49	434	361	368
W	W600	535	533	533	-131	-110	-52	404	424	424
K	K100	-241	-369	-374	-235	-204	-200	-476	-561	-559
K	K150	-214	-488	-449	-190	-195	-217	-405	-659	-670
K	K200	-224	-244	-274	-175	-231	-158	-399	-442	-433
K	K250	-219	-244	-204	-156	-157	-193	-375	-383	-383
K	K300	-210	-194	-214	-156	-238	-221	-367	-398	-416
K	K350	-179	-219	-214	-64	-199	-159	-244	-390	-362
K	K400	-187	-199	-199	-21	-56	-59	-209	-244	-252
K	K450	-198	-229	-234	17	-40	-39	-180	-256	-253
K	K500	-211	-254	-254	53	-36	-36	-158	-281	-282
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-101.6	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-98.4	
ACTUAL	PX (KIPS)		-20.0			0.			-19.5	
ACTUAL	PY (KIPS)		.0			-19.9			-18.9	



**TABLE 30G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.



SECTION D

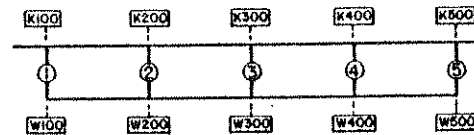
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	167	84	84	-584	-243	-243	-417	-149	-149
K	K100	144	104	104	-466	-258	-269	-321	-153	-156
K	K150	122	124	114	-353	-249	-315	-231	-121	-267
K	K200	121	144	144	-300	-285	-284	-178	-151	-150
K	K250	121	124	112	-285	-201	-224	-123	-75	-83
K	K300	121	109	109	-214	-190	-194	-93	-81	-80
K	K350	121	104	114	-185	-156	-161	-63	-46	-43
K	K400	121	110	122	-169	-167	-173	-48	-48	-50
K	K450	120	99	99	-155	-176	-186	-34	-77	-90
K	K500	140	104	104	-176	-193	-191	-35	-84	-83
K	K600	162	149	149	-198	-255	-255	-36	-90	-80
W	W100	-375	-329	-310	1338	1763	1829	962	1337	1422
W	W150	-415	-264	-294	1335	1210	1242	919	923	909
W	W200	-465	-289	-304	1197	1367	1345	732	1034	991
W	W250	-463	-349	-334	954	919	903	492	462	557
W	W300	-461	0	-301	809	0	780	347	0	462
W	W350	-448	-254	-284	653	584	610	212	329	319
W	W400	-423	-439	-439	559	694	679	136	233	227
W	W450	-365	-209	-219	474	522	539	68	302	268
W	W500	-329	-374	-379	355	480	534	34	106	112
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-101.5	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-98.4	
ACTUAL	PX (KIPS)		-20.0						-19.5	
ACTUAL	PY (KIPS)		.0			-10.0			-18.0	

TABLE 3011

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

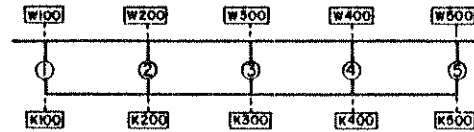
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-194	-119		-9	9		-214	-109	
K	K200	-216	-204		-6	12		-223	-195	
K	K300	-265	-244		-3	2		-268	-242	
K	K400	-296	-359		6	4		-290	-353	
K	K500	-374	-279		25	12		-349	-262	
W	W100	244	174		13	-26		258	180	
W	W200	275	603		7	-47		282	610	
W	W300	321	838		1	0		322	897	
W	W400	363	508		-8	-151		354	409	
W	W500	408	843		-26	-224		381	721	
SECTION F										
K	K100	-339	-309		14	30		-325	-276	
K	K200	-440	-533		20	46		-420	-532	
K	K400	-348	-463		50	93		-298	-404	
K	K500	-319	-249		78	66		-240	-186	
W	W100	372	518		-15	-37		357	483	
W	W200	545	1396		-25	-78		519	1369	
W	W400	423	982		-63	-162		359	891	
W	W500	326	1047		-88	-204		238	912	

**TABLE 301**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,E,G



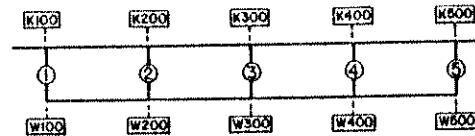
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-332	-184		84	73		-248	-117	
W	W200	-156	-154		85	240		-71	64	
W	W300	-61	19		90	245		29	292	
W	W400	7	54		86	193		94	292	
W	W500	71	179		104	209		175	424	
K	K100	343	1746		-87	-262		256	1598	
K	K200	196	314		-107	-152		98	169	
K	K300	80	14		-111	-125		-30	-100	
K	K400	-1	-9		-105	-152		-197	-150	
K	K500	-72	-124		-106	-170		-178	-295	
SECTION K										
W	W100	179	324		100	266		290	657	
W	W200	162	334		71	177		194	578	
W	W300	151	389		-49	-47		191	345	
W	W400	159	454		-100	-193		50	244	
W	W500	167	369		-152	-292		14	90	
K	K100	-186	-246		-112	-234		-299	-454	
K	K200	-109	-274		-78	-10		-237	-232	
K	K300	-187	-229		61	76		-125	-138	
K	K400	-197	-239		121	117		-66	-121	
K	K500	-174	-264		150	172		-23	-59	

TABLE 30J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F.F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	160	214		-468	-662		-308	-465	
K	K200	134	159		-342	-352		-215	-215	
K	K400	111	104		-138	-146		-27	-38	
K	K500	117	64		-117	-144		0	-75	
W	W100	-172	-414		553	1815		380	1358	
W	W200	-169	-244		450	1148		289	828	
W	W400	-139	-344		168	798		28	387	
W	W500	-127	-394		124	579		-3	170	
SECTION I										
K	K100	133	79		-222	-26		-98	55	
K	K200	105	104		-86	-53		19	48	
K	K300	98	79		-22	11		75	92	
K	K400	84	64		-1	-7		82	61	
K	K500	77	39		7	-35		85	11	
W	W100	-145	-164		225	365		90	154	
W	W200	-130	-274		111	537		-19	266	
W	W300	-117	-204		39	423		-77	186	
W	W400	-105	-234		8	52		-97	-159	
W	W500	-99	-149		-17	125		-116	-37	

**TABLE 30K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	IX				NORMALIZED POINT LOADS AT				IX+IY			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	146.6	21.1	131.1	20.9	-11.0	18.8	-12.1	14.0	135.6	21.3	124.8	22.0
A	2	158.1	22.8	165.9	26.4	-10.8	18.5	-15.7	18.2	147.3	23.2	155.7	27.4
A	3	149.6	21.5	148.5	23.7	-11.8	20.2	-21.0	24.4	137.8	21.7	130.6	23.0
A	4	126.0	18.1	123.9	19.7	-12.4	21.1	-23.3	27.1	113.6	17.9	106.9	19.8
A	5	114.2	16.4	58.5	9.3	-12.5	21.4	-14.1	16.3	101.7	16.0	50.0	9.8
A	SUM	694.5		627.9		-58.6		-86.2		635.9		567.9	
D	1	-41.5	19.8	-30.4	17.9	130.8	31.0	155.2	30.0	89.3	42.0	118.3	36.1
D	2	-42.5	20.3	-39.6	23.4	104.3	24.7	155.6	30.1	61.7	29.0	110.7	33.8
D	3	-42.4	20.3	-36.5	21.6	75.3	17.9	90.7	17.5	32.9	15.5	53.0	16.2
D	4	-42.3	20.2	-37.2	21.9	59.8	14.2	68.3	13.2	17.5	8.2	29.2	8.9
D	5	-40.5	19.4	-25.7	15.2	51.7	12.3	47.0	9.1	11.2	5.3	16.5	5.0
D	SUM	-209.2		-169.4		421.9		516.9		212.7		327.7	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	105.9	15.3	274.3	34.0	-7.5	12.9	-35.2	45.6	98.4	15.5	252.8	34.3
A	2	190.0	27.5	174.9	21.7	-12.9	22.1	-16.4	21.3	177.1	28.9	160.8	21.8
A	3	171.4	24.8	154.5	19.1	-14.1	24.2	-10.3	13.4	157.3	24.9	142.4	19.3
A	4	144.5	20.9	117.9	14.6	-14.8	25.4	-8.9	11.5	129.7	20.5	105.3	14.4
A	5	79.2	11.5	86.1	10.7	-8.9	15.3	-6.3	9.1	70.3	11.1	74.1	10.1
A	SUM	691.0		807.8		-58.2		-77.1		632.8		736.5	
D	1	-29.3	14.1	-40.2	17.4	102.5	24.5	100.4	22.9	73.2	30.7	67.4	31.0
D	2	-50.4	24.2	-55.2	23.9	131.4	31.4	119.7	25.2	91.0	38.4	64.8	29.8
D	3	-50.0	24.0	-46.1	19.9	97.7	20.9	77.0	17.6	37.7	17.9	26.5	12.2
D	4	-49.9	24.0	-46.2	20.9	65.8	15.7	69.6	15.9	15.8	7.5	23.2	10.7
D	5	-28.4	13.7	-43.6	18.9	31.6	7.5	80.8	18.4	3.2	1.5	35.6	16.4
D	SUM	-208.1		-231.4		419.0		438.3		211.0		217.4	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-131.6	
LOAD	PY (KIPS)	0.		.1		-100.0		-100.0		-100.0		-98.4	
ACTUAL	PX (KIPS)			-20.0				-0.				-13.5	
ACTUAL	PY (KIPS)			.0				-10.9				-18.9	

TABLE 30L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

SECTION	GIRDER	IX				IV				IX+IV			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	123.8	17.9	204.9	28.5	-9.1	15.5	-24.0	29.7	114.7	18.1	190.7	29.2
A	2	176.0	25.4	169.7	23.6	-12.0	20.5	-16.0	19.7	164.0	25.9	157.5	24.1
A	3	161.9	23.4	150.9	21.0	-13.1	22.4	-15.3	18.9	148.8	23.5	136.0	20.8
A	4	136.3	19.7	120.1	16.7	-13.7	23.5	-15.7	19.4	122.6	19.3	106.1	16.3
A	5	94.6	13.7	72.6	10.1	-10.5	18.0	-9.9	12.3	84.1	13.3	62.3	9.5
A	SUM	692.6		718.2		-58.4		-81.0		634.2		652.6	
D	1	-34.6	16.6	-35.0	17.6	114.9	27.3	129.9	26.4	80.3	37.9	94.7	33.6
D	2	-46.9	22.5	-46.9	23.7	119.5	28.4	134.9	27.5	72.6	34.3	89.5	31.7
D	3	-46.7	22.4	-41.0	20.7	82.3	19.6	84.4	17.2	75.6	16.8	40.7	14.4
D	4	-46.6	22.3	-41.4	20.9	63.2	15.0	69.0	14.0	16.6	7.8	26.4	9.4
D	5	-33.7	16.2	-34.0	17.2	40.5	9.6	73.0	14.9	6.7	3.2	31.0	11.0
D	SUM	-208.6		-198.3		420.3		491.2		211.7		282.4	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	124.0	17.9	180.7	27.3	-9.1	15.6	-23.1	26.9	114.9	18.1	167.6	28.0
A	2	175.8	25.4	156.6	23.7	-12.0	20.5	-14.9	17.4	163.9	25.9	145.7	24.3
A	3	161.5	23.3	140.3	21.2	-13.1	22.4	-17.3	20.2	148.5	23.4	125.6	21.0
A	4	136.1	19.7	113.8	17.2	-13.7	23.5	-19.0	22.2	122.4	19.3	99.7	16.7
A	5	94.8	13.7	70.1	10.6	-10.5	18.0	-11.4	13.3	84.3	13.3	60.1	10.0
A	SUM	692.3		661.4		-58.4		-85.7		633.9		598.7	
D	1	-34.7	16.6	-32.5	17.7	114.3	27.2	144.1	29.0	79.8	37.4	109.9	35.3
D	2	-46.9	22.5	-44.4	24.2	119.6	28.5	144.2	29.0	72.7	34.1	101.8	32.6
D	3	-46.6	22.4	-38.6	21.0	82.1	19.5	86.2	17.3	35.6	16.7	47.6	15.3
D	4	-46.6	22.3	-38.7	21.1	63.0	15.0	67.3	13.5	16.7	7.8	27.6	8.8
D	5	-33.8	16.2	-29.4	16.0	41.2	9.8	55.6	11.2	8.4	4.0	25.0	8.0
D	SUM	-208.5		-183.6		420.2		497.5		213.1		311.9	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-101.6	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-98.4	
ACTUAL	PX (KIPS)			-20.0		0.		0.		0.		-19.5	
ACTUAL	PY (KIPS)			0.		0.		-19.9		0.		-18.9	

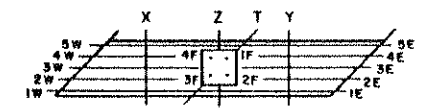
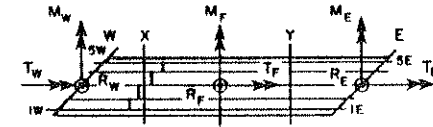
TABLE 31A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	3X		3Y		3X+3Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1E	2.00	-1.05	13.86	10.13	15.86	9.32
2E	-1.34	-2.39	13.24	13.86	11.89	12.38
3E	-2.60	-0.93	10.19	6.97	7.50	5.74
4E	-2.74	-2.55	5.04	7.79	2.30	5.69
5E	-2.12	-1.71	.07	2.28	-2.06	1.09
1F	-10.54	-12.06	42.89	47.51	32.35	38.72
2F	12.71	9.75	20.31	21.32	32.63	32.53
3F	42.76	59.78	-10.64	-11.10	32.12	38.19
4F	19.90	23.43	11.94	12.38	31.94	35.79
1W	.45	1.25	-2.12	-.44	-1.67	.76
2W	5.10	6.68	-2.71	-2.42	2.39	4.08
3W	9.44	11.63	-2.66	-2.83	6.78	9.36
4W	12.65	11.00	-1.34	-1.49	11.31	10.28
5W	14.83	10.18	1.92	-.68	16.75	10.58
RE	-6.90	-8.63	42.40	41.07	35.50	34.22
RF	64.47	71.09	64.51	79.11	128.93	141.23
RW	42.47	40.74	-6.90	-7.86	35.57	35.06
SUMP	100.00	103.11	100.00	103.28	200.00	210.51
PX	-100.00	-100.00	0.	0.	-100.00	-99.49
PY	0.	0.	-100.00	-100.00	-100.00	-100.51
SUMP	-100.00	-100.00	-100.00	-100.00	-200.00	-200.00
SUMP/SUMP	1.00	1.03	1.00	1.03	1.00	1.05
TW=-MW	93.35	57.03	24.30	1.16	117.65	65.44
MF	91.33	116.13	-92.85	-101.72	-1.52	10.09
TF	-69.56	-75.09	67.73	74.50	-.84	-.32
TF=-MF	-24.78	-3.91	-92.03	-55.98	-116.81	-59.53
ACTUAL PX		-19.56		-0.		-19.27
ACTUAL PY		-0.		-19.52		-19.46



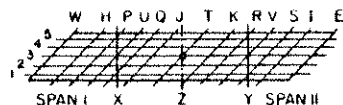
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 31B

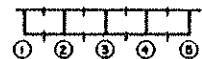
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.409	-.765	1.87	.164	.240	1.46	-.245	-.501	2.04
3H	-.414	-.795	1.92	.140	.232	1.66	-.274	-.559	2.04
5H	-.341	-.685	2.01	.093	.206	2.21	-.248	-.468	1.88
1P	-.646	-1.198	1.85	.254	.382	1.50	-.391	-.794	2.03
3P	-.610	-1.194	1.96	.205	.345	1.68	-.405	-.840	2.07
1X	-.417	-1.470	1.80	.363	.554	1.53	-.454	-.885	1.95
2X	-.752			.300			-.452		
3X	-.693	-1.359	1.96	.239	.413	1.73	-.453	-.936	2.06
4X	-.559			.180			-.379		
5X	-.430	-.899	2.09	.123	.297	2.43	-.307	-.593	1.93
1U	-.804	-1.491	1.86	.323	.505	1.56	-.480	-.965	2.01
5U	-.373	-.801	2.15	.111	.300	2.70	-.262	-.512	1.96
3Q	-.561	-1.077	1.92	.235	.416	1.77	-.327	-.653	2.00
5Q	-.195	-.490	2.52	.049	.190	3.85	-.145	-.281	1.94
1J	-.685	-1.139	1.66	.363	.569	1.57	-.322	-.608	1.89
3J	-.337	-.602	1.79	.182	.298	1.64	-.155	-.298	1.92
5J	.017	-.017	-1.01	-.068	-.020	.29	-.052	-.020	.40
1T	-.353	-.503	1.43	.267	.375	1.41	-.086	-.153	1.78
2T	-.167			.137			-.029		
4T	.136			-.166			-.030		
5T	.265	.371	1.40	-.349	-.512	1.47	-.084	-.161	1.91

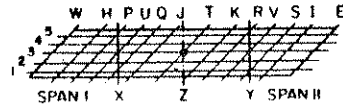


**TABLE 31C**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

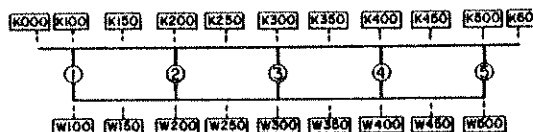
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.077	0.	0.	.026	-.074	-2.81	-.047	-.092	1.98
3K	.182	.315	1.73	-.353	-.636	1.80	-.171	-.333	1.95
5K	.363	.568	1.56	-.674	-1.190	1.77	-.311	-.660	2.12
1R	.045	.190	4.23	-.174	-.421	2.41	-.130	-.246	1.90
3R	.234	.419	1.79	-.602	-1.108	1.84	-.368	-.712	1.93
1Y	.120	.293	2.45	-.402	-.847	2.09	-.287	-.564	2.00
2Y	.178			-.545			-.367		
3Y	.239	.420	1.75	-.762	-1.478	1.94	-.523	-1.084	2.07
4Y	.301			-.739			-.438		
5Y	.363	.528	1.45	-.789	-1.398	1.77	-.426	-.848	1.99
1V	.107	.285	2.67	-.339	-.745	2.20	-.232	-.470	2.02
5V	.324	.510	1.58	-.769	-1.409	1.82	-.445	-.915	2.06
3S	.205	.342	1.67	-.653	-1.235	1.89	-.448	-.892	1.99
5S	.255	.375	1.47	-.623	-1.154	1.85	-.368	-.789	2.14
1I	.092	.189	2.06	-.331	-.649	1.96	-.249	-.448	1.87
3I	.140	.223	1.59	-.432	-.800	1.85	-.292	-.587	2.00
5I	.164	.236	1.44	-.396	-.771	1.95	-.232	-.528	2.28
LOAD PX	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-100.5	
ACTUAL PX		-19.6			0.			-19.3	
ACTUAL PY		0.			-19.5			-19.5	

TABLE 31D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

1 KIP = 4.448 kN  
 1 IN = 25.4 mm

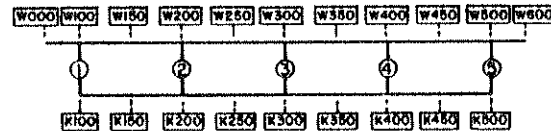
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-344	-2655	-650	72	762	167	-272	-2174	-512
K	K100	-398	-675	-757	85	173	196	-312	-572	-599
K	K150	-335	-642	-526	73	213	177	-261	-517	-416
K	K200	-369	-337	-359	74	78	91	-295	-261	-279
K	K250	-355	-376	-345	74	89	82	-280	-255	-263
K	K300	-326	-427	-368	75	102	86	-250	-341	-287
K	K350	-332	-292	-316	75	66	80	-257	-225	-262
K	K400	-305	-347	-271	75	86	64	-230	-268	-211
K	K450	-283	-234	-261	75	53	58	-208	-177	-196
K	K500	-318	-296	-273	89	58	56	-228	-218	-207
K	K600	-249	-85	-86	76	13	13	-173	-79	-83
W	W100	1001	1468	1394	-196	-255	-242	804	1204	1139
W	W150	1057	1044	1008	-227	-191	-183	830	874	804
W	W200	1278	1256	1309	-263	-223	-230	1015	1011	1061
W	W250	1271	1240	1102	-275	-202	-207	996	1022	890
W	W300	1202	1340	1310	-290	-265	-257	911	1059	1032
W	W350	1245	1060	1006	-291	-196	-189	953	812	780
W	W400	1157	1351	1346	-293	-234	-240	864	1043	1039
W	W450	970	1028	954	-262	-234	-228	708	769	717
W	W500	835	874	845	-237	-175	-167	598	602	583
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.5	
ACTUAL	PX (KIPS)		-19.6			0.			-19.3	
ACTUAL	PY (KIPS)		0.			-19.5			-19.5	

**TABLE 31E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI CONO. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



**SECTION B**

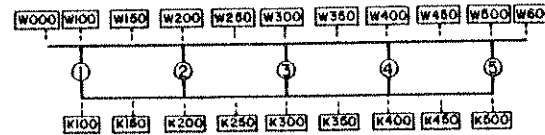
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
GAGE TYPE	GAGE LOC.	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
W	W000	-84	276	170	430	281	398	346	570	575
W	W100	-84	170	170	430	398	391	346	575	572
W	W150	19	170	172	368	271	264	398	457	470
W	W200	155	302	307	383	310	324	539	661	668
W	W250	208	371	364	301	271	261	510	667	653
W	W300	209	562	439	258	271	250	558	860	715
W	W350	284	397	439	308	276	289	593	694	735
W	W400	285	445	445	305	403	405	591	844	841
W	W450	299	344	333	276	313	301	576	694	650
W	W500	410	360	355	290	324	322	700	688	681
W	W600	410	334	334	290	281	281	700	635	635
K	K100	21	-44	-44	-150	-191	-193	-148	-208	-209
K	K150	-14	-154	-151	-164	-345	-307	-179	-449	-429
K	K200	-62	-138	-143	-161	-164	-186	-224	-285	-305
K	K250	-101	-229	-220	-157	-202	-159	-258	-412	-367
K	K300	-167	-296	-278	-161	-164	-190	-329	-443	-454
K	K350	-165	-220	-244	-183	-174	-178	-348	-385	-411
K	K400	-170	-209	-191	-180	-199	-185	-351	-397	-358
K	K450	-174	-224	-232	-156	-247	-258	-330	-458	-476
K	K500	-201	-180	-179	-140	-184	-183	-341	-352	-350
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD	PY (KIPS)		0.		-100.0	-100.0		-100.0	-100.5	
ACTUAL	PX (KIPS)		-10.6			0.			-19.7	
ACTUAL	PY (KIPS)		0.			-19.5			-19.5	

TABLE 31F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

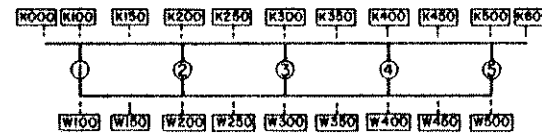
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3XF3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	295	143	143	387	297	297	682	436	436
W	W100	295	270	266	387	281	280	682	570	566
W	W150	275	355	341	286	374	332	562	688	671
W	W200	301	350	362	279	409	412	580	796	806
W	W250	300	281	296	294	494	483	594	764	759
W	W300	250	244	242	328	446	452	578	747	751
W	W350	249	238	244	191	308	309	440	581	572
W	W400	387	329	307	159	409	380	546	753	704
W	W450	374	424	397	7	228	221	382	640	607
W	W500	438	350	361	-119	106	123	318	441	469
W	W600	438	445	445	-119	149	149	318	581	581
K	K100	-141	-227	-227	-188	-193	-193	-330	-412	-412
K	K150	-155	-293	-291	-165	-259	-259	-320	-543	-543
K	K200	-178	-211	-217	-166	-209	-209	-344	-397	-399
K	K250	-178	-226	-206	-169	-291	-296	-347	-492	-483
K	K300	-157	-198	-222	-183	-393	-374	-341	-568	-589
K	K350	-156	-248	-211	-110	-295	-307	-266	-520	-502
K	K400	-164	-174	-185	-62	-146	-144	-226	-296	-300
K	K450	-168	-205	-200	-7	-50	-50	-175	-226	-225
K	K500	-172	-203	-204	37	14	14	-135	-144	-144
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.5	
ACTUAL	PX (KIPS)		-19.6						-19.3	
ACTUAL	PY (KIPS)		0.			-19.5			-19.5	

**TABLE 31G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

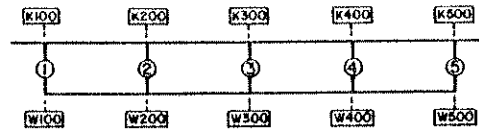
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
K	K000	77	49	49	-260	-182	-192	-192	-151	-151
K	K100	90	63	63	-330	-246	-249	-240	-196	-199
K	K150	75	66	69	-295	-263	-283	-219	-206	-224
K	K200	75	86	86	-330	-360	-356	-254	-293	-289
K	K250	75	72	74	-362	-332	-337	-287	-271	-274
K	K300	74	70	70	-370	-238	-241	-295	-174	-177
K	K350	74	65	69	-365	-289	-299	-290	-230	-238
K	K400	74	79	78	-334	-324	-333	-250	-257	-264
K	K450	74	85	90	-302	-318	-339	-227	-240	-260
K	K500	87	91	94	-339	-351	-349	-251	-275	-271
K	K600	73	122	122	-276	-494	-494	-292	-374	-374
W	W100	-239	-249	-259	901	1157	1160	662	920	926
W	W150	-262	-196	-219	1017	871	910	754	661	696
W	W200	-292	-238	-249	1240	1184	1196	947	946	953
W	W250	-290	-223	-225	1345	1210	1184	1055	1011	970
W	W300	-298	0	-232	1351	0	1189	1062	0	961
W	W350	-275	-175	-192	1298	998	1081	1022	817	886
W	W400	-264	-191	-199	1156	1169	1141	892	989	962
W	W450	-229	-154	-181	936	918	963	737	742	769
W	W500	-200	-217	-223	814	1040	1092	614	839	888
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-99.5	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-100.5	
ACTUAL	PX (KIPS)		-19.6			-0.			-19.7	
ACTUAL	PY (KIPS)		-0.			-19.5			-19.5	

TABLE 31H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

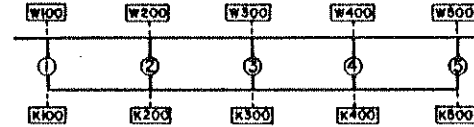
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-78	-86		33	20		-45	-64	
K	K200	-102	-148		37	36		-65	-111	
K	K300	-135	-125		46	34		-89	-92	
K	K400	-182	-222		54	59		-127	-167	
K	K500	-267	-206		76	50		-191	-159	
W	W100	91	191		-41	-21		50	172	
W	W200	134	556		-47	-106		87	446	
W	W300	170	387		-56	-90		114	274	
W	W400	222	668		-67	-122		155	522	
W	W500	286	991		-82	-207		203	758	
SECTION F										
K	K100	-265	-260		64	64		-200	-197	
K	K200	-263	-362		65	98		-198	-276	
K	K400	-389	-504		86	135		-303	-386	
K	K500	-370	-317		116	98		-253	-214	
W	W100	292	848		-69	-154		222	667	
W	W200	335	895		-81	-180		253	688	
W	W400	473	954		-108	-202		364	726	
W	W500	431	1023		-126	-223		335	760	

**TABLE 311**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS,  
 LOADING SHOWN IN TABLES D, F, E, G



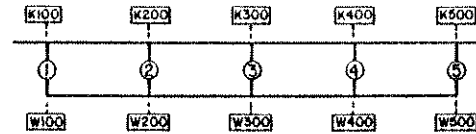
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		3Y			3Y			3X+3Y		
GAGE TYPE	GAGE LOC.	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-214	-111		123	106		-90	-22	
W	W200	-117	-127		115	319		-1	174	
W	W300	-38	64		120	361		91	409	
W	W400	23	143		126	281		149	441	
W	W500	74	307		142	356		217	678	
K	K100	221	857		-128	-153		92	449	
K	K200	142	131		-143	-219		-1	-49	
K	K300	52	-52		-148	-184		-95	-209	
K	K400	-21	-56		-154	-187		-176	-225	
K	K500	-81	-111		-152	-217		-233	-305	
SECTION K										
W	W100	140	244		65	170		226	441	
W	W200	124	291		24	138		149	441	
W	W300	110	344		-21	27		97	333	
W	W400	116	445		-126	-165		-10	145	
W	W500	124	291		-239	-377		-114	-97	
K	K100	-148	-233		-70	-70		-219	-297	
K	K200	-152	-188		-21	-74		-173	-237	
K	K300	-147	-201		73	-90		-114	-252	
K	K400	-144	-189		156	133		11	-21	
K	K500	-129	-198		258	182		128	219	

TABLE 3IJ

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,E,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	114	162		-308	-390		-194	-252	
K	K200	85	112		-353	-447		-268	-357	
K	K400	64	65		-275	-245		-210	-188	
K	K500	64	49		-259	-210		-195	-169	
W	W100	-122	-307		341	1024		219	710	
W	W200	-107	-233		430	1136		322	871	
W	W400	-81	-260		342	1429		251	1215	
W	W500	-69	-265		290	1131		221	903	
SECTION I										
K	K100	77	39		-292	-177		-215	-145	
K	K200	54	46		-193	-187		-138	-147	
K	K300	46	30		-120	-75		-74	-50	
K	K400	37	26		-100	-83		-63	-59	
K	K500	32	20		-80	-73		-47	-55	
W	W100	-84	-106		326	536		242	414	
W	W200	-67	-132		237	632		170	505	
W	W300	-56	-111		152	409		96	290	
W	W400	-47	-79		132	319		85	237	
W	W500	-41	-58		93	356		52	290	



**TABLE 31K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

SECTION	GIRDER	3X				3Y				3X+3Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	114.9	20.4	96.9	16.5	-25.1	19.2	-15.8	14.3	89.8	20.8	78.6	17.1
A	2	127.3	22.7	134.7	23.0	-26.3	20.1	-24.1	21.8	101.0	23.4	108.8	23.7
A	3	118.7	21.1	134.4	22.9	-26.6	20.3	-25.7	23.2	92.1	21.4	106.3	23.1
A	4	108.8	19.4	144.5	24.6	-26.8	20.4	-28.0	25.3	82.0	19.0	111.2	24.2
A	5	92.3	16.4	75.9	13.9	-26.1	20.0	-17.1	15.4	66.2	15.4	54.6	11.9
A	SUM	562.2		586.3		-131.0		-110.6		431.2		459.4	
D	1	-26.3	20.0	-22.9	19.7	96.3	17.1	102.7	17.2	70.0	16.3	80.2	16.7
D	2	-26.7	20.3	-29.4	25.2	117.3	20.9	148.7	24.2	90.6	21.0	115.0	23.9
D	3	-26.5	20.2	-26.4	22.7	131.0	23.3	140.6	23.5	104.5	24.3	114.6	23.8
D	4	-26.4	20.1	-20.1	17.3	118.8	21.1	118.2	19.8	92.4	21.5	98.0	20.4
D	5	-25.4	19.4	-17.7	15.2	98.6	17.5	91.3	15.3	73.1	17.0	73.5	15.3
D	SUM	-131.4		-116.5		562.0		597.5		430.7		481.4	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	87.5	15.6	231.9	35.3	-17.5	13.4	-61.0	37.9	70.0	16.3	182.8	35.8
A	2	147.4	26.4	134.4	20.5	-31.0	23.8	-34.4	21.1	116.3	27.1	104.5	20.5
A	3	133.1	23.8	122.9	18.7	-31.4	24.1	-29.5	18.1	101.7	23.7	94.4	18.5
A	4	125.2	22.4	96.3	14.7	-31.8	24.4	-23.0	14.1	93.4	21.8	74.5	14.6
A	5	66.1	11.8	70.8	10.8	-19.5	14.2	-14.5	8.9	47.6	11.1	54.3	10.6
A	SUM	559.2		656.1		-130.2		-163.2		429.0		510.5	
D	1	-19.6	14.3	-23.4	14.6	71.0	12.7	90.7	14.6	52.4	12.2	72.6	14.8
D	2	-31.7	24.3	-32.6	20.7	133.0	23.9	137.4	22.1	102.7	23.8	111.5	22.8
D	3	-31.3	24.0	-28.7	17.9	145.5	26.0	111.8	18.0	114.2	26.6	86.5	17.7
D	4	-31.2	23.9	-34.6	21.5	136.4	24.4	133.7	21.5	105.2	24.5	104.8	21.4
D	5	-17.8	13.6	-41.4	25.7	72.8	13.0	148.4	23.9	55.0	12.8	113.5	23.2
D	SUM	-130.6		-160.7		559.7		622.0		429.1		488.8	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-99.5	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.5	
ACTUAL	PX (KIPS)			-19.6				-7.				-19.3	
ACTUAL	PY (KIPS)			-0.				-19.5				-19.5	

TABLE 31L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

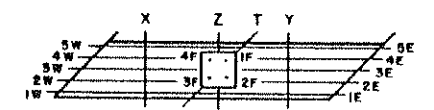
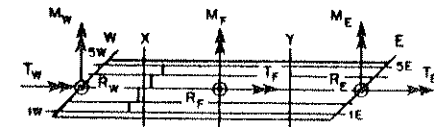
SECTION	GIRDER	3X				3Y				3X+3Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	99.5	17.8	166.6	26.9	-20.9	16.0	-39.7	28.9	78.7	18.3	132.3	27.4
A	2	138.6	24.7	133.8	21.6	-29.0	22.2	-29.3	21.3	109.6	25.5	106.0	21.9
A	3	126.8	22.6	127.7	20.6	-29.3	22.5	-27.5	20.0	97.5	22.7	99.5	20.6
A	4	118.0	21.0	118.6	19.1	-29.6	22.7	-25.2	18.4	88.4	20.6	91.5	18.9
A	5	77.6	13.9	72.8	11.8	-21.8	16.7	-15.6	11.4	55.8	13.0	54.2	11.2
A	SUM	560.5		619.5		-130.6		-137.4		429.9		483.5	
D	1	-22.0	16.8	-23.1	16.9	82.1	14.6	97.0	15.9	60.1	14.0	76.6	15.8
D	2	-29.5	22.5	-30.9	22.5	126.6	22.6	141.3	23.2	97.1	22.6	113.4	23.4
D	3	-29.2	22.3	-27.5	20.0	139.1	24.8	127.1	20.9	109.9	25.6	101.5	20.9
D	4	-29.1	22.2	-26.8	19.6	128.7	22.9	125.4	20.6	99.6	23.2	101.1	20.9
D	5	-21.2	16.2	-28.7	21.0	84.1	15.0	117.9	19.4	63.0	14.7	92.1	19.0
D	SUM	-131.0		-137.1		560.7		608.6		429.8		484.6	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	99.1	17.7	149.1	25.4	-20.9	16.0	-39.7	30.3	78.3	18.2	117.7	25.7
A	2	138.3	24.7	124.6	21.2	-28.9	22.2	-26.1	20.0	109.4	25.5	99.5	21.7
A	3	126.6	22.6	121.6	20.7	-29.3	22.4	-25.2	19.2	97.3	22.7	95.4	20.9
A	4	117.8	21.1	122.3	20.8	-29.6	22.6	-24.7	18.8	88.3	20.6	94.2	20.6
A	5	77.8	13.9	69.5	11.8	-21.9	16.7	-15.2	11.6	55.9	13.0	51.2	11.2
A	SUM	559.6		587.2		-130.6		-131.0		429.1		458.0	
D	1	-22.0	16.8	-22.6	17.6	82.1	14.7	98.4	16.5	60.0	14.0	77.3	16.2
D	2	-29.5	22.5	-29.9	23.3	126.4	22.6	140.7	23.6	96.9	22.6	112.4	23.6
D	3	-29.2	22.3	-26.5	20.6	138.9	24.8	132.9	22.3	109.7	25.6	107.8	22.6
D	4	-29.1	22.2	-24.5	19.0	128.5	22.9	120.0	20.1	99.4	23.2	97.8	20.5
D	5	-21.2	16.2	-25.1	19.5	84.0	15.0	104.3	17.5	62.9	14.7	82.1	17.2
D	SUM	-131.0		-128.6		559.9		596.3		429.0		477.4	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-99.5	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-100.5	
ACTUAL	PX (KIPS)			-19.6				-0.				-19.3	
ACTUAL	PY (KIPS)			-0.				-19.5				-19.5	

TABLE 32A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT T-AXIS  
 RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	5X		5Y		5X+5Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	-9.37	-9.52	-17.22	-15.20	-26.59	-21.22
2E	-3.21	-3.96	4.43	-1.63	1.23	-8.16
3F	.94	1.16	14.65	11.84	14.70	12.00
4E	1.60	1.94	16.67	23.42	18.27	26.16
5F	2.42	1.62	17.95	13.67	16.37	15.50
1F	11.69	10.20	70.62	81.68	82.31	91.55
2F	-5.72	-9.59	4.74	5.36	-0.58	-6.71
3F	16.28	18.77	-34.12	-43.42	-17.84	-24.38
4F	33.29	41.80	31.76	36.48	65.05	79.01
1W	-10.65	-8.53	-6.80	-3.62	-17.45	-11.74
2W	-7.19	-5.60	-7.24	-6.38	-14.43	-11.96
3W	.06	-2.06	-5.57	-6.28	-5.51	-9.29
4W	17.39	16.39	.51	.20	17.90	17.33
5W	52.95	51.47	13.61	9.49	66.56	62.01
RF	-8.51	-8.76	32.48	32.09	23.98	24.37
RE	55.94	61.18	73.00	80.10	128.94	139.47
RW	52.56	51.67	-5.48	-6.58	47.08	46.35
SUMR	100.00	104.09	100.00	105.61	200.00	210.10
PX	-100.00	-100.00	0.	.06	-100.00	-101.30
PY	0.	0.	-100.00	-100.00	-100.00	-98.70
SUMP	-100.00	-100.00	-100.00	-99.94	-200.00	-200.00
SUMR/SUMP	1.00	1.04	1.00	1.06	1.00	1.05
TW=-MW	390.26	365.11	124.87	94.35	515.14	454.60
MF	64.80	89.94	-116.60	-149.96	-51.81	-45.72
TF	51.02	64.23	197.65	234.32	248.67	302.47
TE=-4F	73.00	72.46	191.76	212.92	264.76	277.56
ACTUAL PX		-19.87		.01		-19.43
ACTUAL PY		0.		-19.60		-18.93



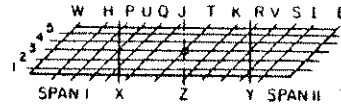
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 32B**

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



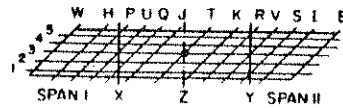
SPAN I DEFLECTION AT POINT	NORMALIZED POINT LOADS AT								
	5X			5Y			5X+5Y		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.107	-.312	2.92	.308	.423	1.38	.201	.090	.45
3H	-.216	-.489	2.26	.232	.351	1.51	.016	-.179	
5H	-.528	-1.041	1.97	.083	.163	1.96	-.445	-.890	2.00
1P	-.208	-.486	2.34	.466	.681	1.46	.257	.121	.47
3P	-.357	-.797	2.23	.324	.496	1.53	-.033	-.294	8.97
1X	-.307	-.633	2.06	.645	.963	1.49	.338	.284	.84
2X	-.361			.502			.141		
3X	-.430	-.906	2.11	.363	.575	1.58	-.067	-.345	5.18
4X	-.516			.226			-.290		
5X	-.708	-1.502	2.12	.093	.221	2.38	-.615	-1.313	2.14
1U	-.287	-.630	2.19	.580	.870	1.50	.293	.201	.69
5U	-.585	-1.124	1.92	.042	.171	4.04	-.542	-1.001	1.85
3Q	-.391	-.753	1.97	.344	.545	1.59	-.038	-.233	6.15
5Q	-.408	-.801	1.96	-.077	-.005	.06	-.485	-.833	1.72
1J	-.244	-.464	1.90	.651	.983	1.51	.407	.470	1.15
3J	-.233	-.439	1.88	.258	.404	1.56	.025	-.054	-2.16
5J	-.213	-.058	.27	-.270	-.031	.11	-.483	-.084	.17
1T	-.044	-.073	1.64	.529	.778	1.47	.485	.672	1.39
2T	-.021			.272			.250		
4T	.006			-.327			-.321		
5T	.009	.027	3.08	-.704	-1.046	1.48	-.695	-1.016	1.46

**TABLE 32C**

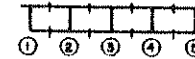
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm

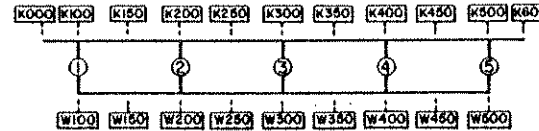


DEFLECTION AT POINT	SPAN II								
	SX			SY			SX+RY		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	.115	.243	2.10	.237	.269	1.13	.752	.504	1.47
3K	.109	.223	2.05	-.409	-.694	1.70	-.300	-.447	1.49
5K	.087	.223	2.57	-1.298	-2.258	1.74	-1.211	-2.023	1.67
1R	.164	.322	1.97	.005	-.115		.168	.244	1.45
3R	.132	.293	2.22	-.657	-1.126	1.71	-.525	-.813	1.55
1Y	.149	.318	2.14	-.281	-.584	2.08	-.132	-.206	1.56
2Y	.135			-.514			-.379		
3Y	.123	.285	2.32	-.789	-1.406	1.78	-.666	-1.081	1.62
4Y	.109			-1.130			-1.021		
5Y	.093	.215	2.31	-1.572	-2.838	1.80	-1.479	-2.563	1.73
1V	.173	.352	2.04	-.185	-.435	2.35	-.012	-.014	1.16
5V	.078	.220	2.81	-1.461	-2.525	1.73	-1.383	-2.268	1.64
3S	.093	.216	2.33	-.756	-1.311	1.73	-.664	-1.056	1.59
5S	.053	.169	3.01	-1.161	-1.916	1.65	-1.109	-1.732	1.56
1T	.102	.207	2.03	-.252	-.453	1.80	-.159	-.210	1.40
3T	.053	.130	2.44	-.559	-.960	1.72	-.505	-.799	1.58
5T	.026	.096	3.65	-.758	-1.255	1.66	-.731	-1.138	1.56
LOAD PX	-100.0	-100.0		0.	.1		-100.0	-101.3	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-98.7	
ACTUAL PX		-19.9			0			-19.4	
ACTUAL PY		0.			-19.6			-19.9	

TABLE 32D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

1 KIP = 4.448 kN  
 1 IN = 25.4 mm

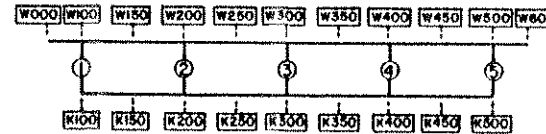
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-175	-1496	-336	116	1076	239	-58	-670	-129
K	K100	-201	-355	-419	137	249	280	-63	-138	-168
K	K150	-174	-430	-279	119	301	214	-55	-236	-114
K	K200	-190	-160	-173	121	132	153	-69	-49	-50
K	K250	-183	-155	-165	120	158	137	-62	-22	-24
K	K300	-185	-288	-193	120	142	142	-65	-173	-36
K	K350	-221	-170	-206	120	117	127	-101	-62	-75
K	K400	-277	-346	-223	120	127	107	-156	-242	-128
K	K450	-334	-242	-284	120	91	102	-213	-150	-180
K	K500	-461	-355	-308	142	91	86	-318	-232	-189
K	K600	-430	-110	-111	120	15	15	-309	-118	-121
W	W100	438	777	765	-315	-346	-352	122	448	449
W	W150	510	595	664	-366	-260	-244	144	368	368
W	W200	643	662	720	-427	-331	-321	216	315	330
W	W250	659	803	686	-442	-178	-295	216	533	551
W	W300	718	1105	1042	-463	-280	-278	254	805	787
W	W350	875	996	956	-465	-224	-224	409	773	744
W	W400	1118	1189	1169	-467	-270	-288	651	864	829
W	W450	1290	1377	1338	-416	-265	-301	874	1066	1071
W	W500	1362	1220	1267	-374	-260	-255	988	848	930
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-101.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-98.7	
ACTUAL	PX (KIPS)		-19.9			0			-19.4	
ACTUAL	PY (KIPS)		0.			-19.6			-18.9	

**TABLE 32E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

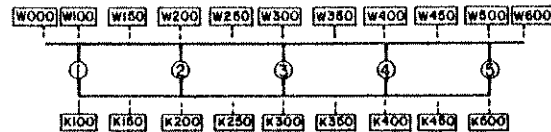
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
W	W000	-103	203	-21	538	234	489	435	448	432
W	W100	-103	-21	-21	538	489	484	435	432	427
W	W150	-9	52	52	444	316	316	435	363	366
W	W200	98	151	149	439	372	380	538	528	532
W	W250	163	318	281	439	339	285	593	613	587
W	W300	289	447	327	328	306	306	617	784	659
W	W350	266	334	372	371	346	346	638	677	727
W	W400	275	454	466	387	576	558	652	965	964
W	W450	292	469	448	398	372	352	690	848	805
W	W500	416	501	489	525	459	477	942	971	967
W	W600	416	459	459	525	525	525	942	1008	1008
K	K100	38	-55	-55	-212	-249	-249	-173	-286	-288
K	K150	1	-151	-141	-197	-403	-362	-196	-496	-456
K	K200	-39	-59	-52	-185	-198	-229	-225	-238	-260
K	K250	-79	-164	-145	-177	-209	-163	-256	-352	-302
K	K300	-167	-267	-219	-209	-153	-173	-377	-395	-402
K	K350	-154	-140	-175	-221	-214	-193	-376	-337	-374
K	K400	-164	-216	-145	-231	-204	-204	-396	-387	-335
K	K450	-171	-249	-287	-228	-239	-239	-400	-465	-497
K	K500	-210	-171	-168	-265	-311	-311	-475	-467	-461
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-101.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-98.7	
ACTUAL	PX (KIPS)		-10.0			.0			-10.4	
ACTUAL	PY (KIPS)		0.			-19.6			-18.9	

TABLE 32F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

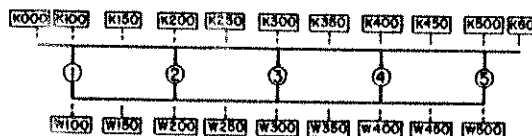
		NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
GAGE TYPE	GAGE LOC.	***** THEORY	MEASR	ADJUST	***** THEORY	MEASR	ADJUST	***** THEORY	MEASR	ADJUST
W	W000	265	-31	214	430	377	214	695	299	299
W	W100	265	214	214	430	214	206	695	437	432
W	W150	233	266	260	301	270	260	534	523	503
W	W200	243	287	295	269	255	265	512	565	577
W	W250	233	229	256	255	357	311	488	544	508
W	W300	163	198	197	233	362	369	396	597	597
W	W350	205	209	202	166	270	290	372	475	490
W	W400	328	276	264	191	515	494	520	773	756
W	W450	312	292	299	126	637	663	439	949	975
W	W500	359	224	232	151	561	566	510	848	854
W	W600	359	292	292	151	755	755	510	1077	1077
K	K100	-131	-156	-155	-202	-229	-244	-334	-375	-390
K	K150	-135	-181	-188	-169	-295	-178	-304	-459	-414
K	K200	-146	-174	-163	-157	-183	-270	-303	-335	-386
K	K250	-140	-173	-176	-146	-239	-188	-287	-394	-345
K	K300	-101	-171	-192	-125	-193	-35	-226	-329	-293
K	K350	-130	-258	-177	-102	25	20	-232	-202	-237
K	K400	-140	-135	-152	-85	-122	-35	-226	-249	-205
K	K450	-143	-167	-157	-79	-86	-102	-222	-231	-246
K	K500	-141	-136	-137	-101	-285	-255	-242	-406	-398
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-101.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-98.7	
ACTUAL	PX (KIPS)		-19.9			.0			-19.4	
ACTUAL	PY (KIPS)		-0.			-19.6			-18.9	



**TABLE 32G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

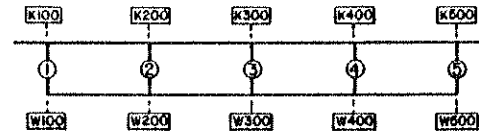
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	36	17	17	-295	-168	-168	-259	-142	-142
K	K100	42	22	21	-350	-234	-237	-308	-199	-200
K	K150	34	17	39	-303	-270	-280	-268	-237	-234
K	K200	33	31	32	-320	-357	-357	-286	-306	-303
K	K250	33	24	25	-337	-311	-326	-304	-275	-281
K	K300	32	35	34	-360	-357	-350	-337	-313	-314
K	K350	32	29	29	-401	-341	-352	-368	-303	-315
K	K400	32	38	40	-456	-469	-469	-424	-420	-418
K	K450	32	61	67	-508	-484	-530	-475	-421	-463
K	K500	38	67	66	-644	-525	-535	-606	-456	-466
K	K600	32	83	83	-580	-933	-933	-548	-844	-844
W	W100	-112	-172	-171	870	1137	1142	757	923	929
W	W150	-119	-130	-129	1000	800	821	891	635	689
W	W200	-130	-188	-187	1198	1050	1061	1067	869	883
W	W250	-128	-110	-134	1275	1040	1035	1146	912	894
W	W300	-126	0	-141	1412	0	1206	1285	0	1035
W	W350	-120	-115	-104	1498	1163	1255	1377	1056	1148
W	W400	-114	-16	-17	1666	1601	1579	1552	1568	1550
W	W450	-100	-115	-119	1695	1255	1474	1594	1162	1333
W	W500	-99	-42	-41	1608	933	1035	1520	837	916
LOAD	PX (KIPS)	-100.0	-100.0		0.	.1		-100.0	-101.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-98.7	
ACTUAL	PX (KIPS)		-19.0			0			-19.4	
ACTUAL	PY (KIPS)		0.			-19.6			-18.9	

**TABLE 32H**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



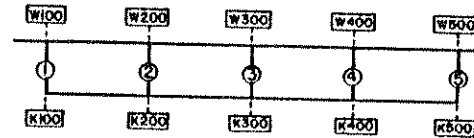
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	20	-44		78	35		98	-7	
K	K200	7	-64		83	66		91	1	
K	K300	-20	-33		98	71		78	33	
K	K400	-91	-86		105	122		14	23	
K	K500	-243	-131		133	86		-110	-50	
W	W100	-34	146		-99	-10		-134	101	
W	W200	-3	318		-105	-158		-109	144	
W	W300	36	214		-117	-224		-80	0	
W	W400	120	1012		-130	-96		-10	923	
W	W500	259	1324		-144	-188		114	1162	
SECTION F										
K	K100	-105	-148		117	107		11	-58	
K	K200	-133	-213		112	163		-20	-82	
K	K400	-274	-472		127	183		-146	-328	
K	K500	-319	-187		163	137		-156	-52	
W	W100	104	349		-127	-285		-22	101	
W	W200	163	480		-140	-295		22	208	
W	W400	365	1053		-161	-270		203	779	
W	W500	334	1971		-175	-234		159	1776	

**TABLE 32I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



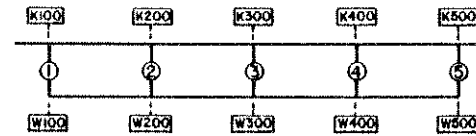
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		SX			SY			SX+SY		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	-171	-110		168	142		-3	0	
W	W200	-101	-187		151	40.3		49	144	
W	W300	-40	-5		151	454		111	421	
W	W400	29	162		164	357		194	528	
W	W500	69	334		185	459		254	816	
K	K100	179	768		-175	-448		4	-36	
K	K200	123	147		-188	-290		-64	-107	
K	K300	50	58		-188	-239		-137	-145	
K	K400	-31	-94		-201	-209		-237	-277	
K	K500	-71	-85		-192	-255		-264	-311	
SECTION K										
W	W100	116	172		58	91		175	287	
W	W200	91	203		-4	40		87	256	
W	W300	99	235		-65	-5		25	245	
W	W400	84	334		-148	-249		-63	21	
W	W500	84	224		-306	-423		-221	-208	
K	K100	-123	-203		-54	-117		-178	-322	
K	K200	-112	-135		13	-45		-98	-173	
K	K300	-111	-149		85	96		-25	-36	
K	K400	-106	-125		183	214		77	89	
K	K500	-88	-157		305	464		217	346	

TABLE 32J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	70	97		-294	-413		-223	-297	
K	K200	46	68		-305	-362		-258	-281	
K	K400	20	23		-395	-397		-374	-362	
K	K500	14	28		-338	-193		-324	-157	
W	W100	-76	-203		292	795		215	544	
W	W200	-58	-198		369	882		310	613	
W	W400	-26	-193		507	1744		481	1584	
W	W500	-14	-141		351	2926		337	2767	
SECTION I										
K	K100	25	3		-351	-188		-326	-170	
K	K200	6	3		-292	-311		-296	-301	
K	K300	-3	-10		-275	-260		-278	-269	
K	K400	-7	-5		-218	-198		-226	-195	
K	K500	-10	2		-174	-102		-184	-92	
W	W100	-26	-63		371	602		344	501	
W	W200	-7	-52		355	877		347	800	
W	W300	2	-52		333	923		335	864	
W	W400	8	31		274	867		282	917	
W	W500	14	5		216	372		231	352	

**TABLE 32K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				NORMALIZED POINT LOADS AT 5Y				5X+5Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	59.7	14.2	58.6	11.6	-40.7	19.2	-22.2	15.4	19.5	9.2	35.0	9.6
A	2	66.0	15.6	79.1	15.7	-42.7	20.3	-33.6	23.4	23.3	11.0	45.4	12.5
A	3	68.5	16.2	107.2	21.2	-42.6	20.3	-29.8	20.8	25.8	12.2	84.0	23.1
A	4	97.8	23.2	145.9	29.9	-42.7	20.4	-34.0	23.7	55.0	25.9	110.5	30.4
A	5	130.0	30.8	114.4	22.6	-41.4	19.7	-24.1	16.8	88.5	41.7	88.7	24.4
A	SUM	421.9		505.3		-209.7		-143.6		212.2		363.6	
D	1	-12.2	20.9	-14.9	23.4	103.3	18.9	97.6	15.3	91.1	14.3	80.4	14.7
D	2	-11.9	20.4	-20.6	32.3	114.1	16.4	126.8	19.9	102.2	16.1	106.5	19.0
D	3	-11.5	19.7	-15.8	24.7	131.2	19.9	140.3	22.0	119.7	18.8	122.2	21.8
D	4	-11.4	19.6	-6.7	9.8	160.8	23.2	163.2	25.6	149.4	23.5	155.1	27.6
D	5	-11.3	19.4	-6.3	9.8	184.8	26.6	109.0	17.1	173.6	27.3	97.1	17.3
D	SUM	-58.3		-63.8		694.2		636.9		635.9		561.3	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	38.8	9.3	125.6	30.4	-28.2	13.5	-90.0	34.6	10.6	5.1	48.5	27.9
A	2	73.8	17.6	66.7	16.2	-50.2	24.1	-56.9	21.9	23.6	11.2	19.6	11.3
A	3	80.3	19.2	63.1	15.3	-50.2	24.1	-50.2	19.3	30.1	14.3	11.7	6.7
A	4	123.3	29.4	78.4	19.0	-50.6	24.3	-39.6	15.3	72.7	34.5	41.7	24.0
A	5	102.6	24.5	78.8	19.1	-29.2	14.0	-23.1	8.9	73.4	34.9	52.4	30.2
A	SUM	418.8		412.6		-208.5		-259.8		210.3		173.8	
D	1	-8.7	14.9	-9.3	10.9	68.1	9.9	86.8	10.8	59.4	9.4	73.7	10.4
D	2	-14.2	24.5	-12.5	14.6	129.3	18.7	135.3	16.8	115.1	18.2	115.8	16.5
D	3	-13.7	23.7	-12.1	14.1	152.9	22.2	140.7	17.5	139.2	22.0	123.5	17.6
D	4	-13.5	23.4	-20.6	24.1	198.7	28.8	186.8	23.2	185.1	29.3	163.7	23.3
D	5	-7.8	13.5	-30.9	36.2	140.8	20.4	255.1	31.7	133.9	21.1	225.0	32.1
D	SUM	-59.0		-85.4		689.8		804.7		631.8		701.3	
LOAD	PX (KIPS)	-100.0		-100.0		0.		.1		-100.0		-101.3	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-98.7	
ACTUAL	PX (KIPS)			-19.9				.0				-19.4	
ACTUAL	PY (KIPS)			-0.				-19.6				-18.0	

TABLE 32L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				5Y				5X+5Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	48.0	11.4	93.2	20.5	-33.5	16.0	-57.4	28.2	14.5	6.9	41.8	15.9
A	2	70.4	16.7	72.3	15.9	-46.9	22.4	-45.5	22.4	23.5	11.1	31.7	12.1
A	3	75.1	17.9	83.7	18.4	-46.9	22.4	-40.3	19.8	28.2	13.4	45.9	17.5
A	4	112.1	26.7	110.0	24.2	-47.2	22.6	-36.8	18.1	64.9	30.7	74.1	28.2
A	5	114.6	27.3	95.2	21.0	-34.6	16.5	-23.5	11.5	80.0	37.9	69.3	26.4
A	SUM	420.2		454.4		-209.1		-203.3		211.1		262.9	
D	1	-10.2	17.5	-12.3	16.7	83.5	12.1	92.5	12.9	73.3	11.6	77.0	12.3
D	2	-13.2	22.7	-16.9	22.8	122.6	17.7	130.7	18.3	109.4	17.3	110.9	17.7
D	3	-12.8	22.0	-14.1	19.0	143.4	20.7	140.4	19.6	130.6	20.6	122.8	19.6
D	4	-12.6	21.8	-12.9	17.5	182.1	26.3	174.1	24.4	169.4	26.7	159.0	25.4
D	5	-9.3	16.1	-17.7	24.0	160.2	23.2	177.1	24.8	150.8	23.8	156.8	25.0
D	SUM	-58.1		-73.9		691.7		715.0		633.6		626.4	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	48.4	11.5	84.4	18.3	-33.6	16.1	-57.2	29.9	15.0	7.1	37.3	12.2
A	2	70.2	16.7	70.0	15.2	-46.9	22.4	-40.9	21.4	23.5	11.1	36.8	12.0
A	3	75.0	17.9	89.4	19.4	-46.8	22.4	-37.0	19.3	28.1	13.3	69.7	22.7
A	4	112.1	26.7	120.3	26.1	-47.1	22.5	-33.9	17.7	65.0	30.8	89.2	29.1
A	5	114.0	27.2	97.2	21.1	-34.6	16.6	-22.3	11.7	70.5	37.7	73.8	24.1
A	SUM	419.7		461.3		-209.0		-191.4		211.1		306.9	
D	1	-10.2	17.5	-13.9	16.1	84.2	12.2	93.8	13.7	74.0	11.7	77.5	12.9
D	2	-13.2	22.7	-18.9	21.9	122.4	17.7	127.3	18.5	109.2	17.2	107.6	17.9
D	3	-12.8	21.9	-14.7	17.0	143.1	20.7	138.2	20.1	130.4	20.6	120.6	20.0
D	4	-12.6	21.7	-16.9	19.5	182.1	26.3	166.4	24.2	169.4	26.8	154.5	25.6
D	5	-9.4	16.1	-22.1	25.5	159.5	23.1	160.8	23.4	150.2	23.7	142.3	23.6
D	SUM	-58.1		-86.5		691.3		686.4		633.2		602.4	
LOAD	PX (KIPS)	-100.0		-100.0		0.		.1		-100.0		-101.3	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-98.7	
ACTUAL	OX (KIPS)			-19.9				.0				-19.4	
ACTUAL	OY (KIPS)			-0.				-19.6				-18.9	

**TABLE 33A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS

ME = MOMENT AT FOOTING ABOUT Z-AXIS

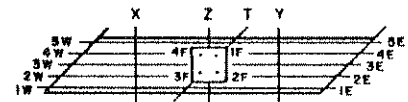
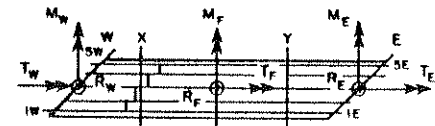
TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS

APPLIED AFTER 50 KSI COND. LOADING.

SIMPLY SUPPORTED. NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT			
	1X+5Y		5X+1Y	
	THEORY	EXPERM	THEORY	EXPERM
1F	-3.55	-11.71	44.70	42.20
2F	4.95	2.69	13.61	13.31
3F	9.09	8.54	-0.78	-2.59
4F	9.43	16.31	-5.79	-6.32
5F	7.14	8.75	-7.57	-4.29
1E	36.65	38.99	27.69	31.23
2E	36.22	36.03	27.64	20.00
3E	36.31	41.34	28.17	30.01
4E	36.74	37.95	28.21	38.31
1W	7.07	7.52	-8.32	-5.87
2W	9.38	11.75	-5.62	-5.26
3W	9.34	15.50	.12	-1.81
4W	5.28	3.53	14.25	14.79
5W	-4.05	-12.10	43.69	43.21
RF	27.06	24.99	44.17	42.32
RF	145.93	154.31	111.71	119.55
RW	27.02	25.80	44.12	45.06
SUMP	200.00	205.10	200.00	206.93
PX	-100.00	-101.32	-100.00	-100.94
PY	-100.00	-98.68	-100.00	-99.06
SUMP	-200.00	-200.00	-200.00	-200.00
SUMP/SUMP	1.00	1.03	1.00	1.03
TW=-MW	-67.76	-121.01	318.52	303.97
MF	.27	6.40	1.57	25.63
TF	1.28	-0.65	.15	29.29
TE=-ME	66.48	138.24	-318.67	-289.57
ACTUAL PX		-19.63		-19.31
ACTUAL PY		-19.12		-18.95



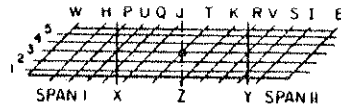
1 KIP = 4.448 kN  
1 FT = 0.305 m

**TABLE 33B**

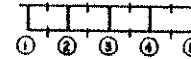
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

DEFLECTION AT POINT	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.427	-.805	1.88	-.080	-.205	2.55			
3H	-.339	-.672	1.98	-.164	-.367	2.24			
5H	-.190	-.319	1.67	-.426	-.860	2.02			
1P	-.647	-1.269	1.96	-.155	-.312	2.01			
3P	-.460	-.927	2.02	-.265	-.576	2.17			
1X	-.849	-1.849	2.18	-.216	-.381	1.76			
2X	-.630			-.255					
3X	-.454	-.941	2.08	-.310	-.636	2.05			
4X	-.326			-.383					
5X	-.214	-.386	1.80	-.559	-1.231	2.20			
1U	-.790	-1.649	2.09	-.210	-.405	1.93			
5U	-.157	-.280	1.78	-.414	-.834	2.02			
3Q	-.324	-.682	2.10	-.253	-.487	1.93			
5Q	-.075	-.107	1.44	-.250	-.509	2.03			
1J	-.607	-1.257	2.07	-.159	-.244	1.53			
3J	-.155	-.321	2.08	-.127	-.241	1.90			
5J	-.031	.025	-.79	-.106	-.009	.09			
1T	-.169	-.309	1.82	-.038	-.046	1.23			
2T	-.053			-.017					
4T	-.055			-.015					
5T	-.176	-.285	1.62	-.035	-.088	2.51			

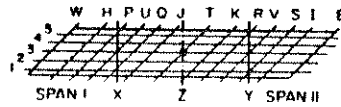


**TABLE 33C**

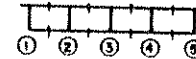
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



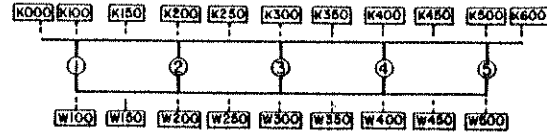
SPAN II

DEFLECTION AT POINT	IX+5Y *****			NORMALIZED POINT LOADS AT 5X+1Y *****			*****		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1X	-.074	-.066	1.05	-.117	-.170	1.50			
3X	-.151	-.284	1.88	-.113	-.197	1.75			
5X	-.647	-1.278	1.97	-.137	-.284	2.07			
1R	-.074	-.143	1.93	-.285	-.402	1.71			
3R	-.314	-.580	1.85	-.223	-.393	1.76			
1Y	-.190	-.384	2.02	-.632	-1.262	2.00			
2Y	-.288			-.437					
3Y	-.426	-.838	1.96	-.290	-.550	1.97			
4Y	-.620			-.215					
5Y	-.927	-1.859	2.01	-.188	-.352	1.87			
1V	-.145	-.300	2.07	-.406	-.942	1.90			
5V	-.980	-1.660	1.89	-.193	-.398	2.06			
3S	-.433	-.820	1.89	-.252	-.515	2.05			
5S	-.696	-1.254	1.80	-.151	-.355	2.35			
1I	-.170	-.319	1.88	-.463	-.870	1.81			
3I	-.327	-.623	1.90	-.157	-.348	2.22			
5I	-.450	-.805	1.79	-.087	-.233	2.82			
LOAD PY	-100.0	-101.3		-100.0	-100.0				
LOAD PY	-100.0	-98.7		-100.0	-99.1				
ACTUAL OX		-19.6			-19.3				
ACTUAL OY		-19.1			-19.0				

TABLE 33D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

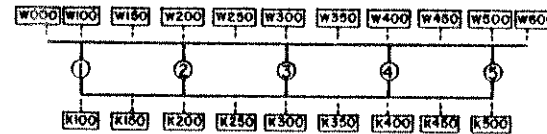
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	1 X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-296	-1602	-576	-143	-1029	-243			
K	K100	-357	-601	-687	-163	-257	-302			
K	K150	-336	-657	-505	-142	-316	-211			
K	K200	-329	-330	-355	-160	-131	-141			
K	K250	-305	-308	-321	-151	-127	-138			
K	K300	-312	-389	-322	-151	-238	-162			
K	K350	-259	-246	-284	-187	-154	-183			
K	K400	-270	-273	-219	-242	-313	-215			
K	K450	-212	-177	-195	-298	-234	-277			
K	K500	-245	-213	-199	-417	-353	-297			
K	K600	-218	-76	-77	-393	-138	-141			
W	W100	815	1562	1542	352	574	520			
W	W150	1103	1098	1117	414	451	442			
W	W200	1181	1277	1291	536	537	595			
W	W250	1121	934	977	541	649	582			
W	W300	1158	1219	1173	586	917	866			
W	W350	963	871	810	741	810	793			
W	W400	856	686	709	982	971	962			
W	W450	714	570	634	1166	1196	1189			
W	W500	639	232	262	1247	1057	1096			
LOAD	PX (KIPS)	-100.0	-101.3		-100.0	-100.9				
LOAD	PY (KIPS)	-100.0	-98.7		-100.0	-99.1				
ACTUAL	PX (KIPS)		-19.6			-19.3				
ACTUAL	PY (KIPS)		-19.1			-19.0				

**TABLE 33E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

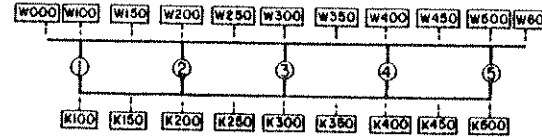
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	602	702	1103	271	708	247			
W	W100	602	1103	1104	271	247	243			
W	W150	525	707	741	315	290	289			
W	W200	606	760	782	435	472	467			
W	W250	535	607	654	411	579	523			
W	W300	570	829	765	447	681	531			
W	W350	637	781	792	487	534	560			
W	W400	667	892	857	499	703	721			
W	W450	705	602	558	499	735	694			
W	W500	956	702	711	641	708	691			
W	W600	956	765	765	641	628	628			
K	K100	-272	-574	-533	-108	-178	-170			
K	K150	-252	-471	-471	-148	-445	-349			
K	K200	-258	-296	-300	-185	-163	-180			
K	K250	-277	-267	-254	-211	-321	-250			
K	K300	-340	-281	-308	-266	-384	-368			
K	K350	-375	-435	-365	-287	-254	-304			
K	K400	-396	-354	-383	-297	-358	-265			
K	K450	-403	-415	-401	-287	-447	-508			
K	K500	-468	-490	-493	-316	-312	-307			
LOAD	PX (KIPS)	-100.0	-101.3		-100.0	-100.9				
LOAD	PY (KIPS)	-100.0	-98.7		-100.0	-99.1				
ACTUAL	PX (KIPS)		-19.6			-19.3				
ACTUAL	PY (KIPS)		-19.1			-19.0				

**TABLE 33F**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

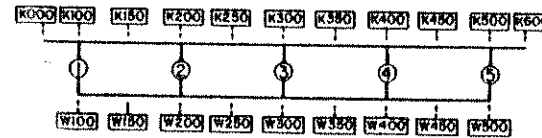
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	913	913	913	727	134	740			
W	W100	913	639	623	727	740	745			
W	W150	678	792	751	552	794	777			
W	W200	645	686	707	530	880	884			
W	W250	623	676	615	496	681	771			
W	W300	563	744	740	432	526	535			
W	W350	452	528	571	317	429	406			
W	W400	635	871	849	386	467	451			
W	W450	572	1135	1145	271	284	313			
W	W500	687	1029	1031	227	150	159			
W	W600	687	1320	1320	227	129	129			
K	K100	-444	-584	-597	-366	-352	-347			
K	K150	-384	-768	-636	-326	-355	-383			
K	K200	-381	-401	-477	-321	-388	-314			
K	K250	-365	-441	-380	-297	-324	-370			
K	K300	-335	-374	-320	-258	-386	-406			
K	K350	-282	-213	-255	-194	-441	-315			
K	K400	-273	-297	-229	-162	-168	-185			
K	K450	-277	-304	-333	-125	-191	-182			
K	K500	-313	-518	-505	-87	-158	-159			
LOAD	PX (KIPS)	-100.0	-101.3		-100.0	-100.0				
LOAD	PY (KIPS)	-100.0	-98.7		-100.0	-99.1				
ACTUAL	PX (KIPS)		-19.6			-19.3				
ACTUAL	PY (KIPS)		-19.1			-19.0				

**TABLE 33G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

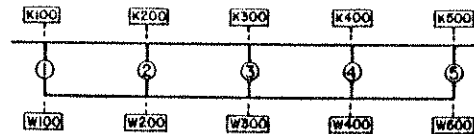
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
K	K000	-174	-101	-101	-387	-237	-237			
K	K100	-207	-133	-134	-417	-252	-262			
K	K150	-182	-153	-168	-314	-245	-300			
K	K200	-200	-222	-222	-262	-266	-264			
K	K250	-217	-194	-209	-209	-183	-199			
K	K300	-249	-253	-257	-179	-162	-165			
K	K350	-281	-240	-248	-150	-127	-132			
K	K400	-317	-350	-351	-135	-132	-134			
K	K450	-389	-399	-426	-120	-112	-119			
K	K500	-506	-426	-431	-134	-119	-119			
K	K600	-463	-780	-780	-112	-147	-147			
W	W100	494	776	706	1225	1502	1637			
W	W150	594	533	526	1216	1084	1119			
W	W200	733	750	738	1066	1196	1175			
W	W250	812	702	717	826	719	778			
W	W300	950	0	882	682	0	641			
W	W350	1057	855	915	532	445	476			
W	W400	1243	1209	1219	445	644	627			
W	W450	1329	945	999	333	376	356			
W	W500	1288	640	640	266	397	430			
LOAD	PX (KIPS)	-100.0	-101.3		-100.0	-100.0				
LOAD	PY (KIPS)	-100.0	-98.7		-100.0	-99.1				
ACTUAL	PX (KIPS)		-19.6			-19.3				
ACTUAL	PY (KIPS)		-19.1			-19.0				

**TABLE 33H**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,E,G



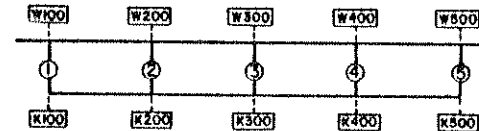
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-116	-83		10	-43				
K	K200	-132	-149		0	-55				
K	K300	-167	-177		-23	-33				
K	K400	-190	-264		-85	-87				
K	K500	-241	-189		-218	-132				
W	W100	144	106		-20	156				
W	W200	169	475		3	284				
W	W300	203	639		38	193				
W	W400	232	401		112	907				
W	W500	263	644		232	1186				
SECTION F										
K	K100	-222	-226		-90	-116				
K	K200	-328	-434		-112	-170				
K	K400	-220	-317		-224	-402				
K	K500	-155	-130		-240	-113				
W	W100	244	401		89	258				
W	W200	304	1177		137	397				
W	W400	262	729		301	923				
W	W500	150	776		246	1029				

**TABLE 33I**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



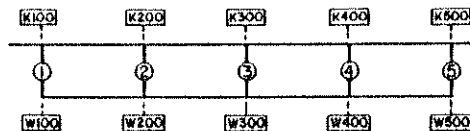
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X+5Y			5X+1Y					
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	-164	-63		-87	-43				
W	W200	-5	211		-15	12				
W	W300	90	480		50	231				
W	W400	172	459		116	381				
W	W500	256	670		173	579				
K	K100	168	1433		92	65				
K	K200	8	65		16	6				
K	K300	-107	-200		-60	-39				
K	K400	-203	-206		-136	-229				
K	K500	-264	-379		-178	-231				
SECTION K										
W	W100	238	502		217	488				
W	W200	158	417		123	418				
W	W300	85	412		41	182				
W	W400	2	180		-15	91				
W	W500	-139	-58		-67	-70				
K	K100	-241	-363		-236	-433				
K	K200	-185	-269		-150	-124				
K	K300	-102	-123		-49	-49				
K	K400	-3	-5		14	2				
K	K500	131	221		62	33				

TABLE 33J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 50 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

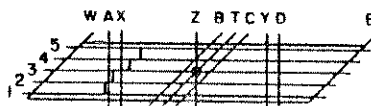
GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT SX+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-133	-205		-397	-596				
K	K200	-177	-214		-296	-313				
K	K400	-283	-293		-118	-124				
K	K500	-221	-129		-102	-111				
W	W100	120	348		476	1615				
W	W200	208	602		391	891				
W	W400	368	1362		142	590				
W	W500	224	2406		109	413				
SECTION I										
K	K100	-217	-115		-196	-34				
K	K200	-186	-221		-79	-58				
K	K300	-177	-186		-26	0				
K	K400	-134	-134		-8	-13				
K	K500	-96	-65		-2	-33				
W	W100	225	422		198	311				
W	W200	225	623		103	488				
W	W300	215	697		42	359				
W	W400	168	581		17	70				
W	W500	117	195		-2	123				



**TABLE 33K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



I KIP = 4.448 kN  
I FT = 0.305 m

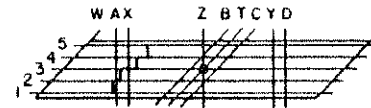
I FT-KIP = 1.356 kN-m  
I FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	IX+5Y				NORMALIZED POINT LOADS AT 5X+1Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	106.3	21.9	110.6	22.6	48.7	13.4	38.5	9.3				
A	2	115.5	23.8	133.0	27.2	55.1	15.2	62.9	15.2				
A	3	107.0	22.1	117.6	24.1	56.6	15.6	82.5	21.6				
A	4	83.2	17.2	89.7	18.4	85.4	23.5	123.0	29.7				
A	5	72.8	15.0	37.8	7.7	117.4	32.7	100.5	24.3				
A	SUM	494.8		498.7		363.3		414.4					
D	1	61.8	12.7	65.7	14.9	118.6	32.6	139.3	31.5				
D	2	71.6	14.8	86.4	19.6	92.4	25.4	136.8	31.0				
D	3	88.8	18.3	101.0	22.2	63.8	17.5	74.3	16.8				
D	4	118.5	24.4	120.4	27.7	48.4	13.7	57.2	12.9				
D	5	144.3	29.8	68.3	15.5	40.5	11.1	34.2	7.7				
D	SUM	485.0		441.9		363.6		441.8					
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	77.7	16.1	207.4	35.7	31.3	8.7	91.9	26.0				
A	2	139.7	29.0	129.9	22.4	60.9	16.9	53.0	15.0				
A	3	121.2	25.1	108.6	19.7	66.2	18.4	53.8	15.2				
A	4	93.8	19.4	80.1	13.9	108.5	30.1	75.6	21.4				
A	5	50.0	10.4	54.9	9.4	93.7	26.0	79.4	22.4				
A	SUM	482.5		580.8		360.6		353.8					
D	1	38.8	8.0	49.5	9.5	93.9	26.0	98.2	26.8				
D	2	78.9	16.4	83.7	14.4	117.3	32.5	103.3	28.2				
D	3	102.9	21.4	97.1	16.7	74.0	20.5	65.9	18.0				
D	4	148.8	30.9	140.6	24.1	52.2	14.5	50.9	13.9				
D	5	112.4	23.3	211.8	36.3	23.8	6.6	48.4	13.2				
D	SUM	481.7		582.6		361.1		366.7					
LOAD	PX (KIPS)	-100.0		-101.3		-100.0		-100.0					
LOAD	PY (KIPS)	-100.0		-98.7		-100.0		-99.1					
ACTUAL	PX (KIPS)			-19.6				-19.3					
ACTUAL	PY (KIPS)			-19.1				-19.0					

TABLE 33L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 50 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	1X+5Y				NORMALIZED POINT LOADS AT 5X+1Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	90.3	18.7	160.3	30.0	39.0	10.8	66.1	17.4				
A	2	129.1	26.7	130.6	24.5	58.4	16.1	57.4	15.1				
A	3	115.0	23.8	112.3	21.0	62.0	17.1	70.5	19.5				
A	4	89.2	18.4	84.3	15.8	98.3	27.2	97.7	25.7				
A	5	60.0	12.4	46.5	8.7	104.1	28.8	89.0	23.4				
A	SUM	483.5		534.0		361.8		380.6					
D	1	48.9	10.1	58.0	11.4	104.7	28.9	119.9	29.5				
D	2	75.7	15.7	85.1	16.8	106.3	29.4	121.1	29.8				
D	3	96.7	20.0	99.1	19.5	69.5	19.2	73.3	17.3				
D	4	135.5	28.0	129.8	25.6	50.5	13.9	54.2	13.3				
D	5	126.4	26.2	135.3	26.7	31.1	8.6	40.8	10.0				
D	SUM	483.2		507.4		362.2		406.4					
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	90.4	18.7	140.2	28.2	39.3	10.9	60.3	15.8				
A	2	129.0	26.7	122.3	24.6	58.3	16.1	55.6	14.6				
A	3	114.7	23.7	106.8	21.5	61.9	17.1	74.9	19.6				
A	4	89.0	18.4	80.9	16.3	98.4	27.2	102.7	26.9				
A	5	60.1	12.4	46.1	9.3	103.5	28.6	87.8	23.0				
A	SUM	483.3		496.3		361.4		381.3					
D	1	49.6	10.3	61.8	12.4	104.1	28.8	130.1	30.9				
D	2	75.5	15.6	84.5	17.0	106.4	29.4	127.7	33.3				
D	3	96.5	20.0	98.5	19.8	69.4	19.1	71.2	16.9				
D	4	135.6	28.1	123.4	24.8	50.4	13.9	54.9	13.1				
D	5	125.8	26.0	129.1	26.0	31.8	8.8	36.9	8.8				
D	SUM	482.9		497.2		362.2		420.8					
LOAD	PX (KIPS)	-100.0		-101.3		-100.0		-100.9					
LOAD	PY (KIPS)	-103.0		-98.7		-100.0		-99.1					
ACTUAL	PX (KIPS)			-19.6				-19.3					
ACTUAL	PY (KIPS)			-19.1				-19.0					

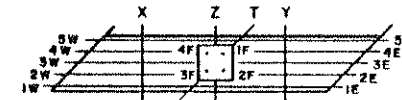
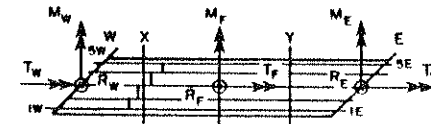
TABLE 34A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	IX		IY		IX+IY	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	13.66	10.21	54.07	55.01	67.73	65.51
2E	.52	-.77	16.81	16.24	17.33	16.24
3E	-5.56	-7.74	-.83	-4.09	-6.38	-8.02
4E	-7.24	-7.69	-7.39	-9.20	-14.63	-17.35
5E	-6.82	-5.03	-9.90	-5.70	-16.80	-10.70
1F	-33.98	-36.11	16.00	18.11	-17.07	-23.87
2F	31.48	29.59	32.06	34.28	64.44	65.73
3F	70.44	81.10	11.88	14.87	82.32	99.34
4F	4.98	1.28	-5.07	-9.64	-.09	-8.50
1W	13.87	11.79	2.33	2.21	16.20	13.42
2W	16.62	17.75	1.57	.50	18.19	19.09
3W	14.91	19.59	.06	.56	14.97	19.83
4W	4.77	.87	-3.15	-3.08	1.62	-4.73
5W	-17.66	-18.00	-9.26	-8.87	-26.92	-23.83
RF	-5.42	-7.03	52.67	52.17	47.25	45.69
RF	72.92	75.96	55.77	57.62	128.69	132.70
RW	32.50	31.59	-8.44	-8.68	24.36	23.78
SUMP	100.00	100.52	100.00	101.11	100.00	202.16
PX	-100.00	-100.00	0.	-.06	-100.00	-100.24
PY	0.	.06	-100.00	-100.00	-100.00	-99.76
SUMP	-100.00	-99.94	-100.00	-100.06	-200.00	-200.00
SUMP/SUMP	1.00	1.01	1.00	1.01	1.00	1.01
TW=-MW	-192.64	-194.52	-71.74	-66.19	-264.37	-252.82
MF	116.87	133.48	-63.23	-70.74	53.64	73.47
TF	-196.37	-218.41	-50.87	-61.02	-247.24	-296.16
TE=-ME	-125.27	-96.14	-391.67	-377.07	-516.25	-478.31
ACTUAL PX		-19.59		-.01		-19.53
ACTUAL PY		.01		-19.31		-19.44



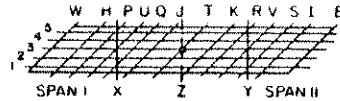
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 34B

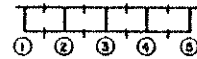
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

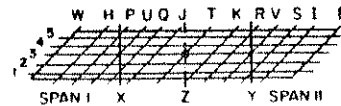
DEFLECTION AT POINT	IX			IY			IX+IY		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.735	-1.233	1.68	.026	.096	3.63	-.709	-1.165	1.64
3H	-.571	-.989	1.73	.053	.142	2.70	-.518	-.875	1.69
5H	-.274	-.461	1.68	.102	.236	2.32	-.172	-.260	1.51
1P	-1.113	-1.963	1.76	.053	.156	2.95	-1.060	-1.798	1.73
3P	-.784	-1.379	1.76	.091	.239	2.63	-.693	-1.175	1.70
1X	-1.495	-2.791	1.87	.091	.221	2.43	-1.404	-2.617	1.86
2X	-1.102			.106			-.996		
3X	-.817	-1.452	1.78	.120	.296	2.47	-.697	-1.203	1.73
4X	-.552			.134			-.419		
5X	-.307	-.566	1.84	.149	.351	2.35	-.158	-.251	1.59
1U	-1.371	-2.504	1.83	.077	.201	2.60	-1.294	-2.339	1.81
5U	-.200	-.392	1.97	.171	.402	2.35	-.029	-.055	1.93
3Q	-.668	-1.199	1.80	.129	.309	2.39	-.539	-.925	1.72
5Q	.002	-.099		.158	.373	2.36	.160	.247	1.54
1J	-1.258	-2.207	1.75	.085	.197	2.33	-1.174	-2.050	1.75
3J	-.413	-.690	1.67	.106	.241	2.26	-.306	-.484	1.58
5J	.239	.029	.12	.107	.013	.12	.346	-.008	-.02
1T	-.698	-1.047	1.50	.007	.002	.24	-.691	-1.045	1.51
2T	-.324			.005			-.320		
4T	.271			-.020			.251		
5T	.529	.768	1.45	-.044	-.074	1.68	.485	.695	1.43

TABLE 34C

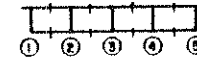
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING,  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

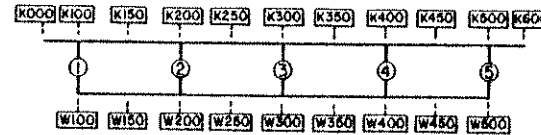
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1X *****			1Y *****			1X+1Y *****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.271	-.302	1.11	-.229	-.459	2.01	-.500	-.768	1.54
3K	.258	.427	1.65	-.221	-.428	1.93	.037	-.015	-.42
5K	.651	1.011	1.55	-.224	-.451	2.01	.427	.537	1.26
1P	-.079	.026	-.33	-.449	-.900	2.00	-.528	-.898	1.70
3P	.343	.549	1.60	-.355	-.715	2.01	-.012	-.156	
1Y	.091	.230	2.53	-.781	-1.689	2.16	-.690	-1.441	2.09
2Y	.226			-.542			-.316		
3Y	.363	.584	1.61	-.402	-.853	2.12	-.040	-.281	7.04
4Y	.501			-.324			.177		
5Y	.645	.912	1.41	-.281	-.606	2.16	.364	.313	.86
1V	.040	.193	4.57	-.668	-1.376	2.06	-.628	-1.211	1.93
5V	.581	.828	1.43	-.271	-.627	2.32	.310	.184	.59
3S	.323	.484	1.50	-.345	-.761	2.21	-.022	-.267	
5S	.466	.637	1.37	-.204	-.529	2.59	.261	.100	.38
1I	.092	.170	2.06	-.565	-1.112	1.97	-.483	-.924	1.91
3I	.231	.349	1.51	-.210	-.505	2.41	.021	-.160	-7.45
5I	.308	.426	1.38	-.109	-.344	3.16	.199	.073	.37
LOAD PX	-100.0	-100.0		0.	-.1		-100.0	-100.2	
LOAD PY	0.	.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL PX		-19.5			-.0			-19.5	
ACTUAL PY		.0			-19.7			-19.4	

**TABLE 34D**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

1 KIP = 4.448 kN  
 1 IN = 25.4 mm

NORMALIZED POINT LOADS AT

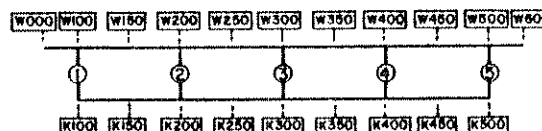
GAGE TYPE	GAGE LOC.	IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-569	-2225	-789	43	436	90	-526	-2122	-779
K	K100	-531	-820	-919	38	94	110	-462	-771	-868
K	K150	-461	-810	-682	31	136	73	-430	-767	-638
K	K200	-456	-466	-482	30	36	40	-426	-432	-450
K	K250	-431	-415	-435	32	29	30	-399	-395	-408
K	K300	-438	-476	-435	34	66	33	-434	-430	-407
K	K350	-385	-359	-394	34	27	34	-350	-337	-361
K	K400	-356	-384	-323	35	56	30	-320	-339	-290
K	K450	-337	-276	-307	36	26	29	-301	-247	-275
K	K500	-393	-333	-307	43	30	28	-349	-299	-274
K	K600	-467	-107	-107	51	9	9	-416	-68	-68
W	W100	1130	1866	1856	-86	-161	-159	1044	1750	1760
W	W150	1470	1348	1343	-96	-123	-142	1373	1262	1282
W	W200	1608	1620	1618	-106	-118	-131	1531	1565	1549
W	W250	1564	1179	1169	-118	-156	-146	1446	1066	1047
W	W300	1622	1466	1425	-131	-231	-221	1490	1300	1270
W	W350	1429	1036	1010	-133	-188	-160	1296	912	907
W	W400	1324	912	953	-136	-215	-205	1188	796	841
W	W450	1131	794	887	-124	-199	-170	1036	631	738
W	W500	1014	482	497	-115	-156	-158	899	435	449
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.5			-.0			-19.5	
ACTUAL	PY (KIPS)		.0			-19.3			-19.4	

34D

**TABLE 34E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



**SECTION B**

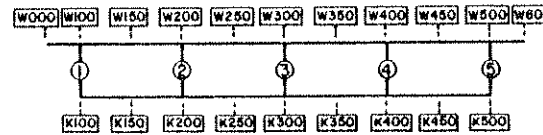
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		***** THEORY	***** MEASD	***** ADJUST	***** THEORY	***** MEASD	***** ADJUST	***** THEORY	***** MEASD	***** ADJUST
W	W000	64	470	610	374	520	290	438	997	987
W	W100	64	610	615	374	290	284	438	987	987
W	W150	80	374	405	324	220	215	405	653	681
W	W200	166	333	333	337	317	317	503	716	734
W	W250	196	266	256	247	236	217	443	531	566
W	W300	242	487	402	158	215	193	400	743	617
W	W350	266	409	410	220	166	181	486	599	625
W	W400	280	328	307	224	263	269	504	610	603
W	W450	308	194	173	207	209	209	515	451	432
W	W500	430	194	200	224	199	195	655	430	428
W	W600	430	189	189	224	150	150	655	392	382
K	K100	-60	-353	-373	-147	-147	-149	-207	-496	-496
K	K150	-54	-87	-92	-149	-141	-276	-204	-451	-447
K	K200	-72	-123	-87	-145	-129	-152	-218	-244	-249
K	K250	-99	-76	-92	-131	-174	-122	-211	-232	-221
K	K300	-130	-153	-123	-98	-125	-138	-229	-261	-242
K	K350	-152	-235	-184	-132	-123	-129	-286	-354	-317
K	K400	-165	-174	-215	-132	-155	-137	-297	-314	-330
K	K450	-174	-189	-164	-116	-207	-223	-291	-306	-388
K	K500	-203	-200	-205	-106	-147	-146	-309	-341	-342
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.5			-.0			-19.5	
ACTUAL	PY (KIPS)		.0			-19.3			-19.4	

TABLE 34F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

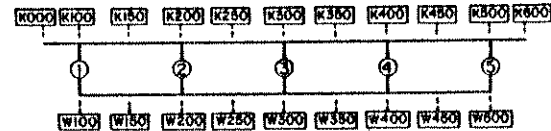
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		IX			IY			IX+IY		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	482	548	548	462	204	526	944	828	828
W	W100	482	389	379	462	526	531	944	960	957
W	W150	377	471	446	319	520	514	697	981	960
W	W200	376	389	405	286	569	571	663	1018	1026
W	W250	368	302	287	263	451	524	632	753	794
W	W300	329	235	235	269	397	397	598	653	659
W	W350	286	225	241	112	209	192	398	483	473
W	W400	444	374	364	57	177	179	501	594	557
W	W450	445	461	487	-40	16	34	404	515	495
W	W500	535	384	389	-131	-54	-52	404	334	357
W	W600	535	471	471	-131	-107	-54	404	382	382
K	K100	-241	-400	-405	-235	-213	-209	-476	-613	-611
K	K150	-214	-523	-476	-190	-195	-216	-405	-703	-715
K	K200	-224	-246	-276	-175	-230	-158	-399	-451	-443
K	K250	-219	-251	-205	-156	-154	-189	-375	-385	-384
K	K300	-210	-189	-215	-156	-234	-216	-367	-400	-419
K	K350	-179	-220	-205	-64	-194	-159	-244	-391	-363
K	K400	-187	-194	-194	-21	-56	-59	-209	-243	-251
K	K450	-198	-256	-256	17	-30	-30	-180	-269	-265
K	K500	-211	-271	-271	53	-45	-45	-158	-308	-309
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.2	
LOAD	PY (KIPS)	0.	.1		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.5			-.0			-19.5	
ACTUAL	PY (KIPS)		.0			-19.3			-19.4	



**TABLE 34G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

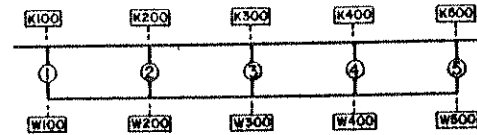
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X			1Y			1X+1Y		
		***** THEORY	MEASR	ADJUST	***** THEORY	MEASR	ADJUST	***** THEORY	MEASR	ADJUST
K	K000	167	82	82	-584	-234	-234	-417	-155	-155
K	K100	144	107	107	-466	-241	-252	-321	-151	-154
K	K150	122	123	117	-353	-232	-299	-231	-118	-279
K	K200	121	143	141	-300	-275	-273	-178	-155	-154
K	K250	121	123	117	-245	-191	-213	-123	-77	-85
K	K300	121	107	107	-214	-185	-189	-93	-84	-83
K	K350	121	102	112	-185	-155	-160	-63	-54	-52
K	K400	121	117	120	-169	-170	-176	-48	-61	-63
K	K450	120	102	102	-155	-179	-188	-34	-91	-102
K	K500	140	102	102	-176	-201	-198	-35	-103	-102
K	K600	162	148	148	-198	-267	-267	-36	-107	-107
W	W100	-375	-266	-261	1338	1775	1937	952	1453	1531
W	W150	-415	-251	-276	1335	1228	1249	919	981	963
W	W200	-465	-282	-292	1197	1157	1339	732	1056	1023
W	W250	-463	-338	-328	954	794	901	492	467	584
W	W300	-461	0	-297	809	0	771	347	0	459
W	W350	-440	-241	-266	653	579	601	212	350	337
W	W400	-423	-359	-361	559	692	666	136	271	274
W	W450	-365	-200	-225	434	520	513	68	308	308
W	W500	-320	-384	-379	355	451	507	34	101	191
LOAD	PX (KIPS)	-100.0	-100.0		0.	-.1		-100.0	-100.2	
LOAD	PY (KIPS)		0.		-100.0	-100.0		-100.0	-99.8	
ACTUAL	PX (KIPS)		-19.5			-.0			-19.5	
ACTUAL	PY (KIPS)					-19.3			-19.4	

TABLE 34H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F,G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST

SECTION H

K	K100	-194	-117		-9	11		-204	-107
K	K200	-216	-205		-6	14		-223	-196
K	K300	-265	-241		-3	2		-268	-241
K	K400	-296	-359		6	5		-290	-353
K	K500	-374	-276		25	13		-349	-257
W	W100	244	194		13	-32		258	202
W	W200	275	528		7	-38		282	568
W	W300	321	820		1	0		322	902
W	W400	363	502		-8	-166		354	398
W	W500	408	841		-26	-220		381	748

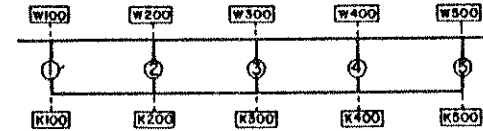
SECTION F

K	K100	-339	-302		14	30		-325	-274
K	K200	-440	-528		20	47		-420	-501
K	K400	-348	-435		50	98		-298	-378
K	K500	-319	-241		78	73		-240	-175
W	W100	372	466		-15	-32		357	456
W	W200	545	1471		-25	-75		519	1459
W	W400	423	989		-63	-166		359	907
W	W500	326	938		-88	-204		238	865

**TABLE 341**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D, E, F, G



TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

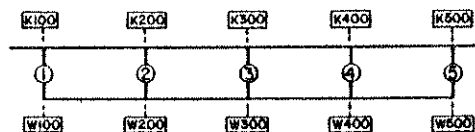
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1X			1Y			1X+1Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	-332	-174		84	86		-248	-111	
W	W200	-156	-133		85	268		-71	106	
W	W300	-61	5		90	241		20	281	
W	W400	7	61		86	199		94	302	
W	W500	71	158		104	220		175	462	
K	K100	342	1050		-87	-264		256	1750	
K	K200	196	350		-107	-167		88	185	
K	K300	80	10		-111	-125		-30	-106	
K	K400	-1	-20		-105	-150		-107	-158	
K	K500	-72	-138		-106	-163		-178	-291	
SECTION K										
W	W100	179	312		100	274		280	653	
W	W200	162	373		31	182		104	578	
W	W300	151	389		-49	-27		101	371	
W	W400	150	482		-100	-150		50	260	
W	W500	167	374		-152	-317		14	50	
K	K100	-186	-251		-112	-214		-298	-460	
K	K200	-199	-241		-38	-8		-237	-226	
K	K300	-197	-235		61	83		-125	-135	
K	K400	-187	-235		121	110		-66	-110	
K	K500	-174	-251		150	163		-23	-52	

TABLE 34J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

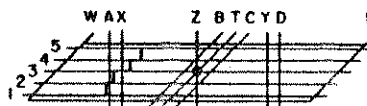
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	1X			1Y			1X+1Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	160	215		-468	-650		-308	-485	
K	K200	134	164		-342	-361		-215	-235	
K	K400	111	107		-138	-143		-27	-46	
K	K500	117	66		-117	-150		0	-91	
W	W100	-172	-410		553	2060		380	1612	
W	W200	-169	-251		450	1191		289	918	
W	W400	-139	-297		168	810		28	462	
W	W500	-127	-389		124	542		-3	175	
SECTION I										
K	K100	133	82		-222	-25		-88	52	
K	K200	105	107		-86	-45		19	51	
K	K300	98	82		-22	15		75	94	
K	K400	84	61		-1	-7		82	58	
K	K500	77	35		7	-42		85	-1	
W	W100	-145	-158		225	381		80	202	
W	W200	-130	-241		111	547		-19	286	
W	W300	-117	-194		39	402		-77	186	
W	W400	-105	-225		8	32		-97	-154	
W	W500	-99	-148		-17	139		-116	-5	

**TABLE 34K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	IX				NORMALIZED POINT LOADS AT IV				IX+IY			
		*****		*****		*****		*****		*****		*****	
		THEORY	PCT	EXPERIMENTAL	PCT	THEORY	PCT	EXPERIMENTAL	PCT	THEORY	PCT	EXPERIMENTAL	PCT
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	146.6	21.1	131.3	21.4	-11.0	18.8	-11.9	13.8	135.6	21.3	124.8	22.3
A	2	158.1	22.8	163.1	26.6	-10.8	18.5	-15.6	18.1	147.3	23.2	151.9	27.5
A	3	149.5	21.5	142.1	23.1	-11.8	20.2	-21.6	25.0	137.8	21.7	126.4	22.6
A	4	126.0	18.1	118.5	19.3	-12.4	21.1	-23.1	26.7	113.6	17.9	103.4	18.5
A	5	114.2	16.4	58.9	9.6	-12.5	21.4	-14.2	16.4	101.7	16.0	50.2	9.0
A	SUM	694.5		614.0		-58.6		-86.5		635.9		558.7	
D	1	-41.5	19.8	-26.3	16.5	130.8	31.0	156.2	30.4	89.3	42.0	126.9	36.5
D	2	-42.5	20.3	-38.3	24.0	104.3	24.7	155.5	30.3	61.7	29.0	115.3	33.2
D	3	-42.4	20.3	-35.5	22.3	75.3	17.9	89.8	17.5	32.9	15.5	54.7	15.7
D	4	-42.3	20.2	-32.6	20.4	59.8	14.2	67.3	13.1	17.5	8.2	33.5	9.6
D	5	-40.5	19.4	-26.6	16.7	51.7	12.3	44.7	8.7	11.2	5.1	17.1	4.9
D	SUM	-209.2		-159.3		421.9		513.5		212.7		347.5	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	105.9	15.3	283.0	34.9	-7.5	12.9	-33.7	43.5	98.4	15.5	266.3	35.5
A	2	190.0	27.5	176.8	21.8	-12.9	22.1	-15.6	20.1	177.1	28.0	165.0	22.0
A	3	171.4	24.8	140.0	18.4	-14.1	24.2	-10.7	13.9	157.3	24.9	139.6	18.6
A	4	144.5	20.9	118.6	14.6	-14.8	25.4	-10.2	13.1	129.7	20.5	107.1	14.3
A	5	79.2	11.5	83.9	10.3	-8.9	15.3	-7.2	9.3	70.3	11.1	72.5	9.7
A	SUM	691.0		811.3		-58.2		-77.4		632.8		750.4	
D	1	-29.3	14.1	-41.4	17.8	102.5	24.5	94.1	21.9	73.2	34.7	67.1	28.7
D	2	-50.4	24.2	-54.9	23.6	131.4	31.4	105.3	24.6	81.0	38.4	65.9	28.2
D	3	-50.0	24.0	-45.6	19.6	87.7	20.9	74.7	17.4	37.7	17.9	28.2	12.1
D	4	-49.9	24.0	-47.0	20.2	65.8	15.7	70.3	16.4	15.8	7.5	27.9	12.0
D	5	-28.4	13.7	-43.4	18.7	31.6	7.5	84.2	19.6	3.2	1.5	44.5	19.1
D	SUM	-208.1		-232.4		419.0		429.5		211.9		233.6	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-1		-100.0		-100.2	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.8	
ACTUAL	PX (KIPS)			-19.5				-9				-19.5	
ACTUAL	PY (KIPS)			0.				-19.3				-19.4	

TABLE 34L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

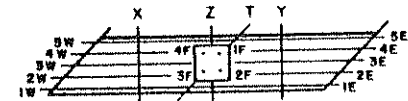
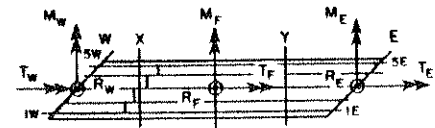
SECTION	GIRDER	IX				NORMALIZED POINT LOADS AT				IX+IY			
		*****		*****		IY		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	123.8	17.9	209.5	29.4	-9.1	15.5	-23.2	28.6	114.7	18.1	197.7	30.2
A	2	176.0	25.4	169.4	23.7	-12.0	20.5	-15.5	19.1	164.0	25.9	158.8	24.2
A	3	161.9	23.4	144.9	20.3	-13.1	22.4	-15.8	19.5	148.8	23.5	132.6	20.2
A	4	136.3	19.7	118.0	16.5	-13.7	23.5	-16.2	20.0	122.6	19.3	104.8	16.0
A	5	94.6	13.7	71.6	10.0	-10.5	18.0	-10.5	12.9	84.1	13.3	61.6	9.4
A	SUM	692.6		713.4		-58.4		-81.3		634.2		655.5	
D	1	-34.6	16.6	-33.4	17.3	114.9	27.3	127.5	26.3	80.3	37.9	99.2	32.9
D	2	-46.9	22.5	-46.0	23.8	119.5	28.4	132.3	27.3	72.6	34.3	92.4	30.6
D	3	-46.7	22.4	-40.2	20.8	82.3	19.6	82.9	17.1	35.6	16.8	42.4	14.1
D	4	-46.6	22.3	-39.3	20.3	63.2	15.0	68.8	14.2	16.6	7.8	30.9	10.3
D	5	-33.7	16.2	-34.4	17.8	40.5	9.6	73.8	15.2	6.7	3.2	36.8	12.2
D	SUM	-208.6		-193.4		420.3		485.3		211.7		301.9	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	124.0	17.9	184.8	28.2	-9.1	15.6	-22.2	26.1	114.9	18.1	174.4	29.1
A	2	175.8	25.4	155.4	23.7	-12.0	20.5	-14.6	17.1	163.9	25.9	145.8	24.3
A	3	161.5	23.3	134.6	20.6	-13.1	22.4	-17.8	21.0	148.5	23.4	122.2	20.4
A	4	136.1	19.7	111.0	17.0	-13.7	23.5	-18.8	22.1	122.4	19.3	98.0	16.3
A	5	94.8	13.7	68.6	10.5	-10.5	18.0	-11.6	13.7	84.3	13.3	58.8	9.8
A	SUM	692.3		654.4		-58.4		-85.1		633.9		599.2	
D	1	-34.7	16.6	-30.7	17.3	114.3	27.2	144.4	29.2	79.8	37.4	117.8	35.0
D	2	-46.9	22.5	-43.5	24.5	119.6	28.5	143.3	28.9	72.7	34.1	105.8	31.5
D	3	-46.6	22.4	-37.7	21.2	82.1	19.5	85.1	17.2	35.5	16.7	49.2	14.6
D	4	-46.5	22.3	-36.0	20.2	63.0	15.0	66.7	13.5	16.7	7.8	31.8	9.5
D	5	-33.8	16.2	-29.9	16.8	41.2	9.8	55.7	11.2	8.4	4.0	31.5	9.4
D	SUM	-208.5		-177.8		420.2		495.2		213.1		336.1	
LOAD	PX (KIPS)	-100.0		-100.0		0.		-1		-100.0		-100.2	
LOAD	PY (KIPS)	0.		.1		-100.0		-100.0		-100.0		-99.8	
ACTUAL	PX (KIPS)			-19.5				.0				-19.5	
ACTUAL	PY (KIPS)			.0				-19.3				-19.4	

**TABLE 35A**

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS  
 ME = MOMENT AT FOOTING ABOUT Z-AXIS  
 MF = MOMENT AT FOOTING ABOUT Y-AXIS  
 RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT					
	3X		3Y		3X+3Y	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	2.00	-1.27	17.86	9.28	15.86	8.17
2E	-1.34	-2.44	13.24	13.60	11.89	11.73
3F	-2.69	-1.08	10.19	7.10	7.50	5.64
4E	-2.74	-2.41	5.04	8.05	2.30	5.97
5F	-2.12	-1.55	.07	2.43	-2.06	1.57
1F	-10.54	-10.07	42.89	46.62	32.35	34.23
2F	12.31	8.91	20.31	19.96	32.63	28.96
3F	42.76	47.46	-10.64	-9.64	32.12	38.20
4F	19.90	25.01	11.94	14.30	31.84	38.67
1W	.45	1.34	-2.12	-1.38	-1.67	.94
2W	5.10	6.71	-2.71	-2.63	2.39	3.81
3W	9.44	11.79	-2.66	-2.86	6.78	9.55
4W	12.65	10.87	-1.34	-1.57	11.31	10.03
5W	14.93	9.78	1.92	-0.81	16.75	9.64
RF	-6.90	-8.75	42.80	40.46	35.50	33.00
DF	54.43	71.31	64.51	71.24	128.93	140.06
RW	42.47	40.09	-6.90	-8.25	35.57	33.07
SUMP	100.00	102.65	100.00	103.45	200.00	207.07
PX	-100.00	-100.00	0.	0.	-100.00	-100.30
PY	0.	-0.06	-100.00	-100.00	-100.00	-99.70
SUMP	-100.00	-100.06	-100.00	-100.00	-200.00	-200.00
SUMP/SUMP	1.00	1.03	1.00	1.03	1.00	1.04
TW=-MW	93.35	54.10	24.70	.51	117.65	60.74
ME	21.33	110.44	-92.85	-92.98	-1.52	20.52
TF	-68.56	-62.14	-67.23	75.90	-0.84	8.61
TE=-ME	-24.78	-1.36	-92.03	-49.50	-116.81	-68.75
ACTUAL PX		-12.12		-0.		-12.79
ACTUAL PY		-0.1		-12.35		-12.29



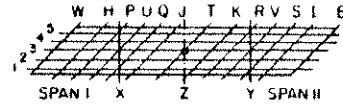
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 35B**

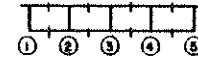
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.409	-.823	2.01	.164	.245	1.50	-.245	-.560	2.28
3H	-.414	-.841	2.03	.140	.234	1.67	-.274	-.585	2.14
5H	-.341	-.727	2.13	.093	.206	2.22	-.248	-.497	2.00
1P	-.646	-1.263	1.96	.254	.367	1.44	-.391	-.875	2.24
3P	-.610	-1.240	2.03	.205	.371	1.81	-.405	-.872	2.15
1X	-.817	-1.514	1.85	.363	.578	1.59	-.454	-.938	2.07
2X	-.752			.300			-.452		
3X	-.693	-1.431	2.07	.239	.445	1.86	-.453	-.973	2.15
4X	-.559			.180			-.379		
5X	-.430	-.989	2.30	.123	.286	2.33	-.307	-.653	2.13
1U	-.804	-1.548	1.93	.323	.507	1.57	-.480	-1.025	2.13
5U	-.373	-.841	2.26	.111	.303	2.72	-.262	-.534	2.04
3O	-.561	-1.125	2.00	.235	.438	1.87	-.327	-.695	2.13
5O	-.195	-.530	2.72	.049	.215	4.35	-.145	-.317	2.18
1J	-.685	-1.201	1.75	.363	.594	1.64	-.322	-.634	1.97
3J	-.337	-.638	1.89	.182	.331	1.81	-.155	-.314	2.03
5J	.017	-.014	-.85	-.068	-.003	.05	-.052	-.106	2.05
1T	-.353	-.519	1.47	.267	.381	1.43	-.086	-.152	1.76
2T	-.167			.137			-.029		
4T	.136			-.166			-.030		
5T	.265	.388	1.46	-.349	-.518	1.48	-.084	-.154	1.82

35B

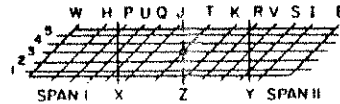


**TABLE 35C**

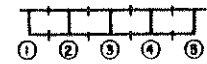
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4,448 kN  
 1 IN = 25.4 mm



SPAN II

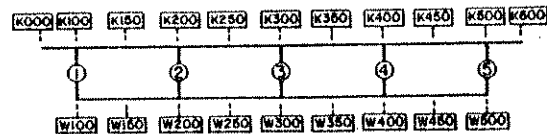
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	3X			3Y			3X+3Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1K	-.073	.010	-1.3	.026	-.085	-3.25	-.047	-.093	2.00
3K	.182	.336	1.85	-.353	-.661	1.87	-.171	-.350	2.04
5K	.353	.608	1.67	-.674	-1.194	1.77	-.311	-.593	1.91
1P	.045	.207	4.61	-.174	-.451	2.58	-.130	-.260	2.01
3P	.234	.425	1.81	-.602	-1.168	1.94	-.368	-.739	2.01
1Y	.120	.303	2.53	-.402	-.874	2.17	-.283	-.595	2.10
2Y	.178			-.545			-.367		
3Y	.239	.431	1.80	-.762	-1.570	2.06	-.523	-1.135	2.17
4Y	.301			-.779			-.438		
5Y	.363	.549	1.51	-.789	-1.449	1.84	-.426	-.872	2.05
1V	.107	.300	2.80	-.339	-.768	2.27	-.232	-.482	2.08
5V	.324	.498	1.54	-.769	-1.464	1.91	-.445	-.931	2.09
3S	.205	.351	1.72	-.653	-1.275	1.95	-.448	-.930	2.08
5S	.255	.378	1.48	-.623	-1.212	1.94	-.368	-.800	2.17
1I	.092	.197	2.15	-.331	-.664	2.00	-.240	-.462	1.93
3I	.140	.225	1.63	-.432	-.840	1.95	-.292	-.587	2.01
5I	.164	.243	1.48	-.396	-.806	2.03	-.232	-.542	2.33
LOAD PX	-100.0	-100.0		0.	0.		-100.0	-100.3	
LOAD PY	0.	-.1		-100.0	-100.0		-100.0	-99.7	
ACTUAL PX		-19.1			0.			-19.4	
ACTUAL PY		-.0			-19.3			-19.3	

TABLE 35D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

1 KIP = 4.448 kN  
 1 IN = 25.4 mm

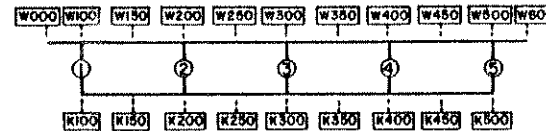
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-344	-2586	-652	72	739	161	-272	-2152	-528
K	K100	-398	-683	-778	85	167	190	-312	-555	-637
K	K150	-335	-678	-556	73	205	134	-261	-565	-455
K	K200	-369	-363	-374	74	77	88	-295	-292	-299
K	K250	-355	-319	-340	74	83	79	-280	-248	-267
K	K300	-326	-406	-357	75	99	83	-250	-332	-283
K	K350	-332	-303	-336	75	66	79	-257	-241	-270
K	K400	-305	-350	-284	75	87	66	-230	-279	-227
K	K450	-283	-240	-271	75	55	60	-208	-188	-211
K	K500	-318	-294	-267	89	58	56	-228	-228	-209
K	K600	-249	-91	-92	76	11	11	-173	-86	-87
W	W100	1001	1442	1379	-196	-241	-229	804	1197	1138
W	W150	1057	1024	980	-227	-177	-170	830	833	785
W	W200	1278	1252	1294	-263	-209	-218	1015	1031	1071
W	W250	1271	1311	1097	-275	-209	-211	996	1042	897
W	W300	1202	1284	1266	-290	-257	-248	911	1020	997
W	W350	1245	1024	985	-291	-193	-192	953	801	773
W	W400	1157	1328	1323	-293	-225	-232	864	1020	1026
W	W450	970	997	954	-262	-230	-230	708	753	717
W	W500	835	954	928	-237	-193	-185	598	673	641
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.3	
LOAD	PY (KIPS)	0.	-0.1		-100.0	-100.0		-100.0	-99.7	
ACTUAL	PX (KIPS)		-19.1			0.			-19.4	
ACTUAL	PY (KIPS)		-0			-19.3			-19.3	

**TABLE 35E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



**SECTION B**

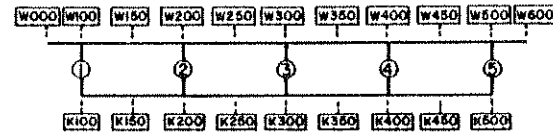
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

		NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
GAGE TYPE	GAGE LOC.	*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-84	282	163	430	295	375	346	598	572
W	W100	-84	163	162	430	375	368	346	572	566
W	W150	19	184	191	368	273	266	388	486	492
W	W200	155	325	329	383	237	342	539	727	732
W	W250	208	379	372	301	268	260	510	678	664
W	W300	299	585	442	258	279	249	558	903	736
W	W350	284	401	437	308	289	298	593	694	735
W	W400	285	482	480	305	418	420	591	887	883
W	W450	299	347	339	276	305	301	576	673	653
W	W500	410	352	348	290	311	310	709	669	664
W	W600	410	331	331	290	289	289	709	630	630
K	K100	21	-49	-49	-169	-209	-202	-148	-216	-217
K	K150	-14	-163	-160	-164	-373	-324	-179	-474	-450
K	K200	-62	-147	-152	-161	-164	-189	-224	-293	-315
K	K250	-101	-245	-234	-157	-204	-153	-258	-428	-376
K	K300	-167	-311	-293	-161	-158	-177	-329	-449	-464
K	K350	-165	-229	-254	-183	-181	-181	-348	-393	-418
K	K400	-170	-216	-198	-180	-210	-197	-351	-394	-364
K	K450	-174	-236	-245	-156	-265	-277	-330	-472	-491
K	K500	-201	-192	-191	-140	-193	-192	-341	-362	-350
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.3	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.7	
ACTUAL	PX (KIPS)		-19.1			0.			-19.4	
ACTUAL	PY (KIPS)		0.			-19.3			-19.3	

TABLE 35F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

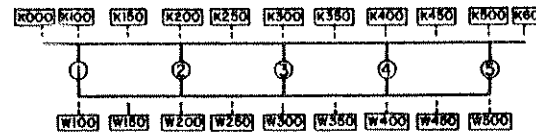
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	295	136	276	387	284	284	682	454	454
W	W100	295	276	273	387	295	294	682	588	584
W	W150	275	352	342	286	343	337	562	711	689
W	W200	301	358	369	279	412	416	590	801	810
W	W250	300	287	295	294	487	479	594	791	784
W	W300	250	260	259	328	509	511	578	796	800
W	W350	249	233	239	191	327	322	440	593	588
W	W400	387	352	329	159	439	410	546	812	762
W	W450	374	412	396	7	246	242	392	657	630
W	W500	438	314	327	-119	102	120	318	417	447
W	W600	438	396	396	-119	166	102	318	561	561
K	K100	-141	-238	-238	-188	-206	-206	-330	-435	-435
K	K150	-155	-303	-301	-165	-277	-275	-320	-575	-574
K	K200	-178	-216	-223	-166	-212	-214	-344	-403	-406
K	K250	-178	-231	-209	-169	-307	-308	-347	-506	-496
K	K300	-157	-196	-222	-183	-424	-403	-341	-597	-618
K	K350	-156	-252	-209	-110	-321	-339	-266	-546	-530
K	K400	-164	-175	-187	-62	-159	-156	-226	-307	-310
K	K450	-168	-222	-215	-7	-34	-34	-175	-224	-224
K	K500	-172	-216	-217	37	13	13	-135	-154	-154
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.7	
LOAD	PY (KIPS)	0.	-.1		-100.0	-100.0		-100.0	-99.7	
ACTUAL	PX (KIPS)		-19.1			0.			-19.4	
ACTUAL	PY (KIPS)		-.0			-19.3			-19.3	

**TABLE 35G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION D

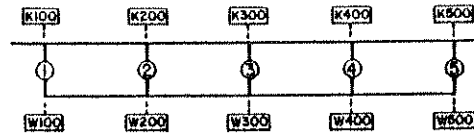
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
K	K000	77	49	49	-269	-187	-187	-192	-155	-155
K	K100	90	62	62	-330	-246	-250	-240	-196	-199
K	K150	75	65	69	-295	-260	-282	-219	-205	-223
K	K200	75	84	84	-330	-363	-357	-254	-295	-290
K	K250	75	70	71	-362	-327	-332	-287	-267	-272
K	K300	74	70	70	-370	-218	-223	-295	-156	-161
K	K350	74	63	67	-365	-291	-304	-290	-234	-244
K	K400	74	76	76	-334	-328	-337	-260	-260	-267
K	K450	74	83	96	-302	-318	-337	-227	-243	-254
K	K500	87	87	90	-338	-356	-353	-251	-272	-268
K	K600	73	117	117	-276	-495	-495	-232	-365	-365
W	W100	-239	-206	-213	901	1157	1153	662	924	923
W	W150	-262	-184	-202	1017	830	874	754	652	683
W	W200	-292	-233	-234	1240	1151	1170	947	940	949
W	W250	-290	-211	-216	1345	1194	1173	1055	994	959
W	W300	-288	0	-222	1351	0	1162	1062	0	945
W	W350	-275	-173	-186	1298	1018	1088	1022	823	884
W	W400	-264	-146	-148	1156	1194	1154	892	1010	981
W	W450	-229	-141	-175	936	937	960	797	743	751
W	W500	-200	-217	-220	814	1060	1113	614	844	894
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.3	
LOAD	PY (KIPS)		0.		-100.0	-100.0		-100.0	-99.7	
ACTUAL	PX (KIPS)		-19.1			0.			-19.4	
ACTUAL	PY (KIPS)					-19.3			-19.3	

TABLE 35H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

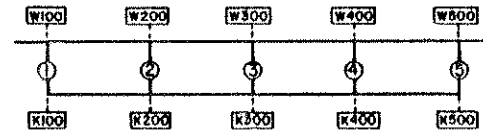
NORMALIZED POINT LOADS AT

GAGE TYPE	GAGE LOC.	3X			3Y			3X+3Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-78	-90		33	20		-45	-73	
K	K200	-102	-150		37	36		-65	-117	
K	K300	-135	-124		46	35		-89	-95	
K	K400	-182	-212		54	59		-127	-170	
K	K500	-267	-198		76	51		-191	-160	
W	W100	91	228		-41	-27		50	203	
W	W200	134	515		-47	-86		87	417	
W	W300	170	385		-56	-102		114	294	
W	W400	222	715		-67	-129		155	593	
W	W500	286	1024		-82	-204		203	823	
SECTION F										
K	K100	-265	-261		64	66		-200	-205	
K	K200	-263	-355		65	99		-198	-281	
K	K400	-389	-467		86	135		-303	-366	
K	K500	-370	-307		116	99		-253	-209	
W	W100	292	894		-69	-161		222	716	
W	W200	335	965		-81	-182		253	753	
W	W400	473	970		-108	-209		364	748	
W	W500	431	1003		-126	-204		305	727	

**TABLE 351**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



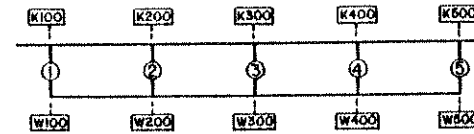
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	-214	-108		123	197		-90	-21	
W	W200	-117	-103		115	359		-1	171	
W	W300	-38	65		120	337		81	390	
W	W400	23	163		126	279		149	459	
W	W500	74	320		142	370		217	721	
K	K100	221	885		-128	-337		92	408	
K	K200	142	153		-143	-237		-1	-37	
K	K300	52	-65		-148	-186		-95	-216	
K	K400	-21	-67		-154	-189		-175	-230	
K	K500	-81	-111		-152	-221		-233	-301	
SECTION K										
W	W100	140	228		65	161		206	443	
W	W200	124	276		24	179		148	449	
W	W300	119	347		-21	72		97	353	
W	W400	116	450		-126	-123		-10	199	
W	W500	124	309		-239	-386		-114	-80	
K	K100	-148	-220		-70	-64		-219	-283	
K	K200	-152	-179		-21	-85		-173	-247	
K	K300	-147	-202		33	-109		-114	-278	
K	K400	-144	-175		156	126		11	-17	
K	K500	-129	-191		258	403		128	221	

TABLE 35J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		3X			3Y			3X+3Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION G										
K	K100	114	162		-308	-391		-194	-254	
K	K200	85	113		-353	-448		-268	-351	
K	K400	64	62		-275	-243		-210	-188	
K	K500	64	48		-259	-211		-195	-170	
W	W100	-122	-276		341	1012		219	700	
W	W200	-107	-217		430	1141		322	865	
W	W400	-81	-266		342	1462		261	1223	
W	W500	-69	-260		290	1125		221	865	
SECTION I										
K	K100	77	39		-292	-176		-215	-149	
K	K200	54	46		-193	-191		-138	-151	
K	K300	46	30		-120	-77		-74	-49	
K	K400	37	26		-100	-83		-63	-64	
K	K500	32	18		-80	-75		-47	-61	
W	W100	-84	-108		326	562		242	449	
W	W200	-67	-119		237	702		170	582	
W	W300	-56	-108		152	412		96	283	
W	W400	-47	-65		132	305		85	203	
W	W500	-41	-54		93	391		52	337	



**TABLE 35K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	3X				3Y				3X+3Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	114.9	20.4	94.5	16.7	-25.1	19.2	-14.7	13.5	89.8	20.8	77.0	16.8
A	2	127.7	22.7	132.8	22.9	-26.3	20.1	-23.1	21.2	101.0	23.4	109.9	23.8
A	3	119.7	21.1	131.1	22.6	-26.6	20.7	-25.6	23.4	92.1	21.4	104.2	22.8
A	4	108.8	19.4	142.0	24.5	-26.8	20.4	-27.6	25.3	82.0	19.0	109.7	24.0
A	5	92.7	16.4	79.9	13.8	-26.1	20.0	-18.0	16.5	66.2	15.4	57.2	12.5
A	SUM	562.2		580.2		-131.0		-109.0		431.2		457.0	
D	1	-26.7	20.0	-20.6	18.8	96.7	17.1	100.4	17.0	70.0	16.3	79.7	16.6
D	2	-26.7	20.3	-28.5	26.1	117.7	20.9	141.3	23.9	90.6	21.0	113.9	23.8
D	3	-26.5	20.2	-25.5	23.7	131.0	23.3	139.1	23.5	104.5	24.7	113.7	23.7
D	4	-26.4	20.1	-17.2	15.8	118.8	21.1	119.2	20.1	92.4	21.5	98.6	20.6
D	5	-25.4	19.4	-17.5	16.0	98.6	17.5	92.1	15.6	73.1	17.0	72.9	15.3
D	SUM	-131.4		-109.3		562.0		592.0		430.7		478.0	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	97.5	15.6	239.1	35.7	-17.5	13.4	-60.1	37.5	70.0	16.3	105.1	16.2
A	2	147.4	26.4	179.7	20.8	-31.0	23.8	-33.5	20.9	116.3	27.1	111.9	20.7
A	3	133.1	23.8	120.8	18.0	-31.4	24.1	-28.7	17.9	101.7	23.7	95.9	17.8
A	4	125.2	22.4	100.0	14.0	-31.8	24.4	-23.5	14.7	93.4	21.8	79.9	14.8
A	5	66.1	11.8	70.6	10.5	18.5	14.2	-14.4	9.0	47.6	11.1	56.6	10.5
A	SUM	559.2		660.7		130.2		-160.2		429.0		539.2	
D	1	-18.6	14.3	-23.6	15.0	71.0	12.7	91.4	14.7	52.4	12.2	73.0	15.1
D	2	-31.7	24.3	-32.0	20.3	133.9	23.9	137.7	22.1	102.2	23.8	111.5	23.0
D	3	-31.7	24.0	-28.5	18.0	145.5	26.0	108.2	17.4	114.2	26.6	83.7	17.3
D	4	-31.2	23.9	-14.2	21.7	136.4	24.4	134.9	21.7	105.2	24.5	105.4	21.7
D	5	-17.8	13.6	-39.6	25.1	72.8	13.0	148.0	24.0	55.0	12.8	111.2	22.9
D	SUM	-130.6		-158.0		559.7		620.7		429.1		494.7	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-100.3	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.7	
ACTUAL	PX (KIPS)			-10.1		0.		0.				-19.4	
ACTUAL	PY (KIPS)			0.		-19.7		-19.7				-19.3	

35K

TABLE 35L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

SECTION	GIRDER	3X				3Y				3X 3Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL		
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	99.5	17.8	165.2	27.1	-20.9	16.0	-38.3	28.3	78.7	18.3	138.0	27.8
A	2	138.6	24.7	135.5	21.7	-29.0	22.2	-28.4	21.0	109.6	25.5	109.9	22.1
A	3	126.8	22.6	125.0	20.1	-29.3	22.5	-27.0	20.0	97.5	22.7	99.3	20.0
A	4	118.0	21.0	119.4	19.1	-29.6	22.7	-25.3	18.8	88.4	20.6	93.6	18.8
A	5	77.6	13.9	74.6	12.0	-21.8	16.7	-16.0	11.9	55.8	13.0	56.6	11.4
A	SUM	560.5		623.6		-130.6		-135.1		429.9		497.3	
D	1	-22.0	16.8	-22.0	16.7	82.1	14.6	96.1	15.9	60.1	14.0	76.3	15.9
D	2	-29.5	22.5	-30.2	22.9	126.6	22.6	139.4	23.0	97.1	22.6	112.8	23.5
D	3	-29.2	22.3	-26.9	20.4	139.1	24.8	124.6	20.6	109.9	25.6	99.4	20.7
D	4	-29.1	22.2	-25.2	19.1	128.7	22.9	126.5	20.9	99.6	23.2	101.7	21.1
D	5	-21.2	16.2	-27.8	21.1	84.1	15.0	118.5	19.6	63.0	14.7	90.7	18.9
D	SUM	-131.0		-132.0		560.7		605.1		429.8		480.9	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	99.1	17.7	152.4	25.9	-20.9	16.0	-38.7	29.9	78.3	18.2	124.0	26.5
A	2	138.3	24.7	125.0	21.2	-28.9	22.2	-25.4	19.7	109.4	25.5	101.7	21.7
A	3	126.6	22.6	118.9	20.2	-29.3	22.4	-24.8	19.2	97.3	22.7	94.5	20.2
A	4	117.8	21.1	121.2	20.6	-29.6	22.6	-24.6	19.0	88.3	20.6	94.2	20.1
A	5	77.8	13.9	71.7	12.2	-21.9	16.7	-15.8	12.2	55.9	13.0	53.4	11.4
A	SUM	559.6		589.3		-130.6		-129.3		429.1		467.8	
D	1	-22.0	16.8	-21.0	17.0	82.1	14.7	96.7	16.3	60.0	14.0	76.6	16.2
D	2	-29.5	22.5	-29.2	23.6	126.4	22.6	138.2	23.3	96.9	22.6	111.6	23.6
D	3	-29.2	22.3	-25.8	20.9	138.9	24.8	131.2	22.2	109.7	25.6	106.5	22.5
D	4	-29.1	22.2	-23.4	19.0	128.5	22.9	120.9	20.4	99.4	23.2	98.4	20.8
D	5	-21.2	16.2	-24.2	19.6	84.0	15.0	105.0	17.7	62.9	14.7	80.9	17.1
D	SUM	-131.0		-123.6		559.9		592.0		429.0		474.0	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-100.3	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.7	
ACTUAL	PX (KIPS)			-19.1				0.				-19.4	
ACTUAL	PY (KIPS)			0.				-19.3				-19.3	

**TABLE 36A**

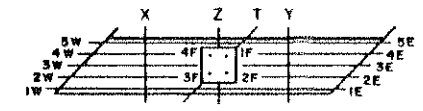
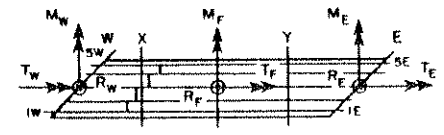
SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS      RESULTS FOR POINT LOADS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS      APPLIED AFTER 60 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT Y-AXIS      SIMPLY SUPPORTED, NO RESTRAINTS.

NORMALIZED POINT LOADS AT

REACTION OR LOAD	SX		SY		SX+SY	
	THEORY	EXPERM	THEORY	EXPERM	THEORY	EXPERM
1F	-9.37	-9.53	-17.22	-16.15	-26.59	-21.98
2F	-3.21	-3.92	4.43	-1.59	1.23	-7.95
3F	.04	.94	14.65	12.25	14.70	12.46
4E	1.60	1.79	16.67	23.37	18.27	25.96
5E	2.42	1.52	13.95	13.33	16.37	15.15
1F	11.69	11.72	70.62	81.30	82.31	89.11
2F	-5.32	-9.78	4.74	5.64	-0.58	-6.30
3F	16.28	17.59	-34.12	-42.08	-17.84	-21.64
4E	33.29	42.90	31.76	34.29	65.05	79.83
1W	-10.65	-8.20	-6.80	-3.33	-17.45	-11.30
2W	-7.19	-5.53	-7.24	-6.20	-14.43	-11.91
3W	.06	-2.88	-5.57	-6.30	-5.51	-9.19
4W	17.39	15.91	.51	-1.10	17.90	16.86
5W	52.95	51.40	13.61	8.82	66.56	62.00
RF	-8.51	-9.20	32.48	31.22	23.98	23.88
RE	55.98	62.43	73.00	79.14	128.98	141.02
RW	52.56	50.74	-5.48	-7.12	47.09	46.46
SUMP	100.00	103.97	100.00	103.23	200.00	211.36
DX	-100.00	-100.00	0.	0.	-100.00	-100.00
DY	0.	0.	-100.00	-100.00	-100.00	-99.94
SUMP	-100.00	-100.00	-100.00	-100.00	-200.00	-200.00
SUMP/SUMP	1.00	1.00	1.00	1.00	1.00	1.00
TW=-MW	390.26	361.64	124.87	78.16	515.14	450.95
MF	64.80	97.82	-116.60	-142.09	-51.81	-36.76
TF	51.02	70.21	197.65	228.05	248.67	295.35
TF=-ME	73.00	71.51	191.76	215.77	264.76	277.17

ACTUAL DX      -19.48      0.      -19.10  
 ACTUAL DY      0.      19.51      19.08



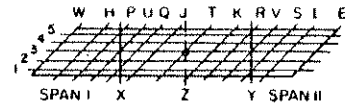
1 KIP = 4.448 kN  
 1 FT = 0.305 m

TABLE 36B

SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 IN = 25.4 mm



SPAN I

NORMALIZED POINT LOADS AT

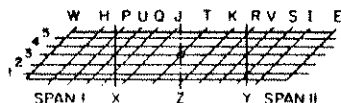
DEFLECTION AT POINT	5X			5Y			5X+5Y		
	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T	THEORY	EXPERM	E/T
1H	-.107	-.339	3.17	.308	.422	1.37	.201	.071	.35
3H	-.216	-.535	2.47	.232	.357	1.54	.016	-.197	
5H	-.528	-1.172	2.22	.083	.171	2.05	-.445	-.972	2.18
1P	-.208	-.561	2.69	.466	.639	1.37	.257	.112	.44
3P	-.357	-.841	2.36	.324	.517	1.60	-.033	-.363	
1X	-.307	-.646	2.10	.645	.989	1.53	.338	.269	.80
2X	-.361			.502			.141		
3X	-.430	-.946	2.20	.363	.603	1.66	-.067	-.399	5.98
4X	-.516			.226			-.290		
5X	-.708	-1.660	2.34	.093	.217	2.34	-.615	-1.416	2.30
1U	-.287	-.655	2.28	.580	.879	1.51	.293	.164	.56
5U	-.585	-1.239	2.12	.042	.161	3.81	-.542	-1.038	1.92
3Q	-.391	-.804	2.11	.344	.578	1.68	-.038	-.264	6.96
5Q	-.408	-.862	2.11	-.077	0.	0.	-.485	-.849	1.75
1J	-.244	-.465	1.91	.651	1.019	1.56	.407	.468	1.15
3J	-.233	-.454	1.95	.258	.427	1.65	.025	-.062	-2.45
5J	-.213	.020	-.09	-.270	.017	-.06	-.483	-.002	.00
1T	-.044	-.066	1.50	.529	.788	1.49	.485	.693	1.43
2T	-.021			.272			.250		
4T	.006			-.327			-.321		
5T	.009	.020	2.27	-.704	-1.057	1.50	-.695	-1.030	1.48

**TABLE 36C**

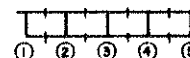
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



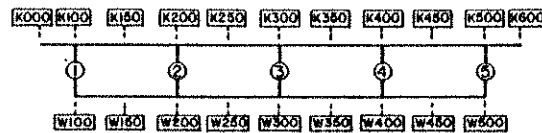
SPAN II

DEFLECTION AT POINT	SX			SY			SX+SY		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	.115	.265	2.30	.237	.259	1.09	.352	.500	1.42
3K	.109	.240	2.20	-.409	-.717	1.75	-.300	-.481	1.60
5K	.087	.234	2.69	-1.298	-2.304	1.77	-1.211	-2.113	1.74
1P	.164	.352	2.15	.005	-.114		.168	.246	1.46
3P	.132	.311	2.36	-.657	-1.169	1.78	-.525	-.864	1.65
1Y	.149	.345	2.32	-.281	-.576	2.05	-.132	-.207	1.57
2Y	.135			-.514			-.379		
3Y	.123	.311	2.54	-.789	-1.443	1.83	-.656	-1.138	1.71
4Y	.109			-1.130			-1.021		
5Y	.093	.250	2.69	-1.572	-2.976	1.89	-1.479	-2.750	1.86
1V	.173	.398	2.30	-.185	-.426	2.31	-.012	-.020	1.70
5V	.078	.226	2.89	-1.461	-2.612	1.79	-1.393	-2.403	1.74
3S	.093	.239	2.58	-.756	-1.337	1.77	-.664	-1.104	1.66
5S	.053	.175	3.31	-1.161	-1.988	1.71	-1.109	-1.823	1.64
1I	.102	.218	2.13	-.252	-.462	1.83	-.150	-.219	1.46
3I	.053	.145	2.72	-.559	-.980	1.75	-.505	-.832	1.65
5I	.026	.112	4.25	-.758	-1.203	1.71	-.731	-1.189	1.63
LOAD PX	-100.0	-100.0		0.	0.		-100.0	-100.1	
LOAD PY	0.	0.		-100.0	-100.0		-100.0	-99.9	
ACTUAL PX		-19.5			0.			-19.1	
ACTUAL PY		0.			-19.5			-19.1	

TABLE 36D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

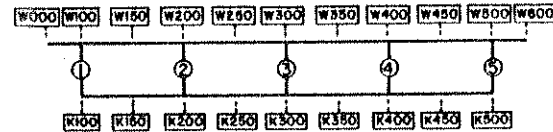
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-175	-1474	-343	116	1025	235	-59	-769	-153
K	K100	-201	-364	-432	137	246	276	-63	-166	-206
K	K150	-174	-455	-299	119	281	199	-55	-285	-143
K	K200	-190	-173	-182	121	123	143	-69	-62	-61
K	K250	-183	-146	-161	120	153	133	-62	-21	-23
K	K300	-185	-285	-187	120	138	138	-65	-172	-35
K	K350	-221	-179	-214	120	117	128	-101	-67	-81
K	K400	-277	-361	-243	120	128	107	-156	-249	-137
K	K450	-334	-252	-297	120	92	102	-213	-151	-183
K	K500	-461	-158	-307	142	92	87	-318	-239	-188
K	K600	-430	-136	-138	120	10	10	-309	-132	-137
W	W100	438	740	674	-315	-333	-339	122	466	453
W	W150	510	585	557	-366	-251	-240	144	385	464
W	W200	643	649	718	-427	-322	-315	216	336	383
W	W250	659	846	689	-442	-256	-292	216	537	572
W	W300	718	1096	1035	-463	-251	-248	254	808	785
W	W350	875	979	950	-465	-215	-225	409	770	745
W	W400	1118	1160	1152	-467	-261	-281	651	835	818
W	W450	1290	1378	1362	-416	-261	-276	874	1063	1076
W	W500	1362	1527	1558	-374	-281	-261	988	1096	1155
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.1	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-19.5			0.			-19.1	
ACTUAL	PY (KIPS)		0.			-19.5			-19.1	

**TABLE 36E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

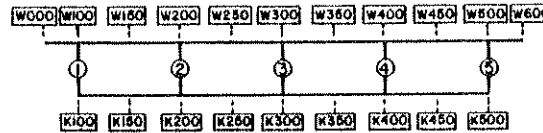
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	-103	213	-32	538	210	451	435	430	423
W	W100	-103	-32	-32	538	451	448	435	423	417
W	W150	-9	43	48	444	312	312	435	374	377
W	W200	98	197	192	439	338	348	538	608	610
W	W250	163	325	287	330	276	287	503	613	591
W	W300	289	490	349	328	307	294	617	835	681
W	W350	266	335	380	371	353	353	638	700	750
W	W400	275	527	537	387	579	566	662	1071	1072
W	W450	292	484	465	398	363	358	690	857	836
W	W500	416	511	499	525	466	476	942	998	995
W	W500	416	474	474	525	517	517	942	1058	1058
K	K100	38	-62	-62	-212	-261	-266	-173	-310	-313
K	K150	1	-167	-155	-197	-435	-379	-196	-540	-490
K	K200	-39	-63	-67	-185	-199	-230	-225	-241	-265
K	K250	-79	-179	-155	-177	-215	-158	-256	-357	-300
K	K300	-167	-277	-234	-209	-149	-174	-377	-397	-406
K	K350	-154	-150	-187	-221	-220	-199	-376	-345	-391
K	K400	-164	-230	-156	-231	-210	-210	-396	-398	-344
K	K450	-171	-270	-311	-228	-251	-256	-400	-485	-520
K	K500	-210	-185	-182	-265	-338	-338	-475	-503	-497
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.1	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-19.5						-19.1	
ACTUAL	PY (KIPS)		0.			-19.5			-19.1	

TABLE 36F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

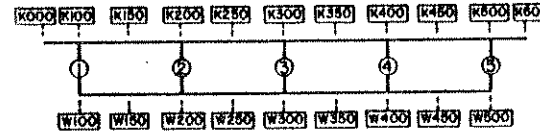
GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		*****	*****	*****	*****	*****	*****	*****	*****	*****
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	265	-48	208	430	348	189	695	293	293
W	W100	265	208	210	430	199	181	695	434	432
W	W150	233	255	254	301	256	246	534	521	505
W	W200	243	277	285	269	225	233	512	559	568
W	W250	233	223	244	255	358	307	488	586	533
W	W300	163	245	239	233	292	284	396	564	570
W	W350	205	213	206	166	276	235	372	483	504
W	W400	328	287	278	191	558	545	520	895	868
W	W450	312	287	299	126	675	717	439	1031	1091
W	W500	359	197	205	151	594	604	510	906	921
W	W600	359	271	271	151	789	789	510	1139	1139
K	K100	-131	-165	-164	-202	-240	-256	-334	-397	-403
K	K150	-135	-185	-191	-169	-307	-174	-304	-482	-427
K	K200	-146	-180	-170	-157	-184	-276	-303	-338	-395
K	K250	-140	-183	-183	-146	-240	-184	-287	-411	-352
K	K300	-101	-172	-195	-125	-205	-25	-226	-344	-300
K	K350	-130	-266	-180	-102	30	25	-232	-202	-240
K	K400	-140	-142	-160	-85	-112	-35	-226	-246	-198
K	K450	-143	-183	-171	-79	-82	-97	-222	-225	-241
K	K500	-141	-143	-144	-101	-358	-307	-242	-492	-480
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.1	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-19.5			0.			-19.1	
ACTUAL	PY (KIPS)		0.			-19.5			-19.1	



**TABLE 36G**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.



SECTION D

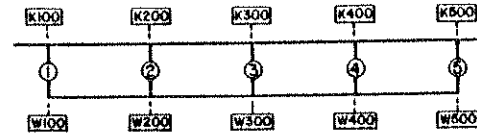
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	5X			5Y			5X+5Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
K	K000	36	18	18	-295	-164	-164	-259	-139	-139
K	K100	42	23	23	-350	-230	-233	-308	-195	-197
K	K150	34	18	41	-303	-261	-271	-268	-231	-231
K	K200	33	35	35	-320	-353	-351	-286	-306	-303
K	K250	33	25	26	-337	-302	-312	-304	-273	-279
K	K300	32	38	37	-369	-358	-361	-337	-321	-323
K	K350	32	30	31	-401	-343	-358	-368	-313	-325
K	K400	32	41	43	-456	-471	-471	-424	-438	-435
K	K450	32	65	70	-508	-492	-538	-475	-440	-482
K	K500	38	70	69	-644	-597	-517	-606	-456	-467
K	K600	32	85	85	-580	-932	-932	-548	-870	-870
W	W100	-112	-160	-167	870	1076	1081	757	949	959
W	W150	-119	-112	-96	1000	753	779	881	629	679
W	W200	-130	-186	-176	1198	1004	1014	1067	857	876
W	W250	-128	-106	-128	1275	1008	999	1146	917	886
W	W300	-126	0	-139	1412	0	1181	1295	0	1039
W	W350	-120	-117	-101	1498	1168	1255	1377	1099	1179
W	W400	-114	11	8	1666	1573	1537	1552	1573	1539
W	W450	-100	-112	-121	1695	1317	1501	1594	1269	1413
W	W500	-88	-37	-35	1688	876	994	1520	797	896
LOAD	PX (KIPS)	-100.0	-100.0		0.	0.		-100.0	-100.1	
LOAD	PY (KIPS)	0.	0.		-100.0	-100.0		-100.0	-99.9	
ACTUAL	PX (KIPS)		-19.5			-0.			-19.1	
ACTUAL	PY (KIPS)		0.			-19.5			-19.1	

TABLE 36H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



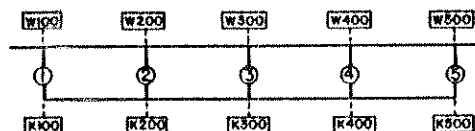
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	20	-56		78	30		98	-19	
K	K200	7	-72		83	66		91	-11	
K	K300	-20	-31		98	71		78	32	
K	K400	-91	-67		105	123		14	40	
K	K500	-243	-120		133	92		-110	-38	
W	W100	-34	197		-99	-15		-134	136	
W	W200	-3	335		-105	-148		-109	184	
W	W300	36	192		-117	-235		-80	-38	
W	W400	120	1149		-130	-97		-10	1041	
W	W500	259	1596		-144	-174		114	1416	
SECTION F										
K	K100	-105	-155		117	107		11	-79	
K	K200	-133	-218		112	164		-20	-93	
K	K400	-274	-464		127	179		-146	-318	
K	K500	-319	-179		163	143		-156	-32	
W	W100	104	330		-127	-302		-22	114	
W	W200	163	516		-140	-297		22	244	
W	W400	365	1069		-161	-256		203	797	
W	W500	334	1979		-175	-225		159	1784	

**TABLE 361**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



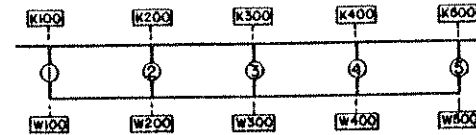
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
SECTION J										
W	W100	-171	-117		168	138		-3	0	
W	W200	-101	-160		151	430		49	179	
W	W300	-40	5		151	420		111	418	
W	W400	29	197		164	374		194	570	
W	W500	69	378		185	476		254	900	
K	K100	179	358		-175	-451		4	-42	
K	K200	127	172		-188	-307		-54	-103	
K	K300	50	58		-188	-240		-137	-149	
K	K400	-31	-99		-201	-215		-233	-284	
K	K500	-71	-88		-192	-266		-264	-326	
SECTION K										
W	W100	116	165		58	82		175	266	
W	W200	91	197		-4	35		87	255	
W	W300	90	255		-65	0		25	271	
W	W400	84	351		-148	-179		-63	76	
W	W500	84	250		-306	-466		-221	-266	
K	K100	-123	-125		-54	-112		-138	-316	
K	K200	-112	-129		13	-56		-98	-177	
K	K300	-111	-152		85	97		-26	-43	
K	K400	-106	-114		183	184		77	65	
K	K500	-88	-150		306	568		217	443	

TABLE 36J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		5X			5Y			5X+5Y		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	70	99		-294	-410		-223	-290	
K	K200	46	72		-305	-358		-258	-281	
K	K400	20	25		-395	-394		-374	-372	
K	K500	14	30		-338	-184		-324	-157	
W	W100	-76	-181		292	758		215	559	
W	W200	-58	-192		369	850		310	597	
W	W400	-26	-192		507	1712		481	1611	
W	W500	-14	-128		351	2839		337	2863	
SECTION I										
K	K100	25	4		-351	-184		-326	-166	
K	K200	6	3		-292	-317		-286	-306	
K	K300	-3	-9		-275	-266		-278	-274	
K	K400	-7	-4		-218	-189		-226	-196	
K	K500	-10	4		-174	-92		-184	-86	
W	W100	-26	-64		371	599		344	537	
W	W200	-7	-32		355	886		347	862	
W	W300	2	-37		333	927		335	900	
W	W400	8	32		274	886		282	971	
W	W500	14	-5		216	363		231	353	

**TABLE 36K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	5X				NORMALIZED POINT LOADS AT 5Y				5X+5Y			
		*****		*****		*****		*****		*****		*****	
		THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL	THEORY	EXPERIMENTAL				
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH													
A	1	59.7	14.2	48.6	9.6	-40.3	10.2	-21.3	15.4	19.5	9.2	39.0	10.2
A	2	65.0	15.6	76.0	15.1	-42.7	20.7	-32.9	23.8	23.3	11.0	51.8	13.5
A	3	68.5	16.2	106.9	21.2	-42.6	20.7	-27.9	20.2	25.8	12.2	84.6	22.1
A	4	97.8	23.2	144.2	28.6	-42.7	20.4	-33.0	23.8	55.0	25.9	109.1	28.4
A	5	130.0	30.8	128.7	25.6	-41.4	19.7	-23.2	16.8	88.5	41.7	99.1	25.8
A	SUM	421.9		504.4		-209.7		-138.2		212.2		381.6	
D	1	-12.2	20.9	-12.9	22.5	107.3	14.9	92.2	14.8	91.1	14.7	81.0	14.3
D	2	-11.9	20.4	-18.3	31.9	114.1	16.4	121.3	19.5	102.2	16.1	105.7	19.5
D	3	-11.5	19.7	-15.3	26.6	131.2	18.9	137.9	22.2	119.7	18.8	123.5	21.7
D	4	-11.4	19.6	-4.9	8.5	160.8	23.2	162.1	25.0	149.4	23.5	158.0	27.8
D	5	-11.7	19.4	-6.9	10.5	184.8	26.6	198.7	17.5	173.6	27.3	199.2	17.6
D	SUM	-58.7		-57.5		694.2		622.2		635.9		568.5	
MOMENTS ABOUT TENSION FLANGE STEEL													
A	1	38.8	9.3	131.9	30.8	-28.2	13.5	-89.1	34.7	10.6	5.1	60.2	31.2
A	2	73.9	17.5	69.6	16.2	-50.2	24.1	-53.3	21.0	23.6	11.2	23.7	12.3
A	3	80.7	19.2	62.4	14.6	-50.2	24.1	-49.6	19.5	30.1	14.7	12.0	6.2
A	4	123.3	29.4	84.3	19.7	-50.6	24.7	-39.8	15.7	72.7	34.5	44.3	23.0
A	5	102.6	24.5	80.5	18.8	-29.2	14.0	-22.8	9.9	73.4	34.9	52.7	27.3
A	SUM	418.8		428.7		-208.5		-253.7		210.7		192.9	
D	1	-8.7	14.9	-9.8	10.9	68.1	9.9	85.4	19.7	59.4	9.4	71.8	10.1
D	2	-14.2	24.5	-13.7	15.2	129.3	18.7	132.9	15.6	115.1	18.2	115.0	15.1
D	3	-13.7	23.7	-13.0	14.4	152.9	22.2	140.5	17.6	139.2	22.0	126.1	17.7
D	4	-13.6	23.4	-21.4	23.7	198.7	28.8	188.7	23.6	185.1	29.3	170.8	23.9
D	5	-7.8	13.5	-32.3	35.8	140.8	20.4	252.5	31.6	133.0	21.1	230.2	32.2
D	SUM	-58.0		-90.3		689.8		899.1		631.8		714.0	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-100.1	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.9	
ACTUAL	PX (KIPS)			-19.5				-9.				-19.1	
ACTUAL	PY (KIPS)			-0.				-19.5				-19.1	

TABLE 36L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT  
SX SY

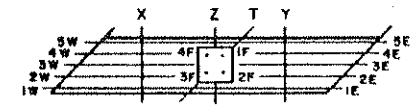
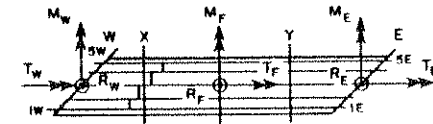
SECTION	GIRDER	***** SX *****				***** SY *****				***** SX+SY *****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	48.0	11.4	91.7	19.9	-73.5	16.0	-56.0	28.3	14.5	6.9	49.8	17.7
A	2	70.4	16.7	72.3	15.6	-46.9	22.4	-43.4	22.0	23.5	11.1	36.9	13.1
A	3	75.1	17.9	83.2	18.0	-46.9	22.4	-39.0	19.8	28.2	13.4	46.4	16.4
A	4	112.1	26.7	112.3	24.3	-47.2	22.6	-36.3	18.4	64.9	30.7	74.8	26.5
A	5	114.6	27.3	102.9	22.3	-34.6	16.5	-22.8	11.6	80.0	37.9	74.4	26.3
A	SUM	420.2		462.3		-209.1		-197.6		211.1		282.7	
D	1	-10.2	17.5	-11.5	15.9	83.5	12.1	89.0	12.6	73.3	11.6	76.6	12.0
D	2	-13.2	22.7	-16.2	22.5	122.6	17.7	126.7	18.0	109.4	17.3	110.0	17.3
D	3	-12.8	22.0	-14.3	19.7	143.4	20.7	139.1	19.7	130.6	20.6	124.7	19.6
D	4	-12.6	21.8	-12.6	17.5	182.1	26.3	174.5	24.7	169.4	26.7	163.9	25.8
D	5	-9.4	16.1	-17.6	24.4	160.2	23.2	175.9	24.9	150.8	23.8	160.9	25.3
D	SUM	-58.1		-72.2		691.7		705.0		633.6		636.2	
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	48.4	11.5	85.5	18.2	-33.6	16.1	-56.3	30.2	15.0	7.1	45.0	13.7
A	2	70.2	16.7	68.6	14.6	-46.9	22.4	-38.8	20.8	23.5	11.1	42.2	12.9
A	3	75.0	17.9	89.1	18.9	-46.8	22.4	-36.4	19.5	28.1	13.3	70.3	21.5
A	4	112.1	26.7	119.7	25.4	-47.1	22.5	-33.4	17.9	65.0	30.8	88.1	26.9
A	5	114.0	27.2	108.0	22.9	-34.6	16.6	-21.6	11.6	79.5	37.7	82.0	25.0
A	SUM	419.7		471.0		-209.0		-186.6		211.1		327.5	
D	1	-10.2	17.5	-12.2	14.0	84.2	12.2	89.2	13.2	74.0	11.7	77.8	12.7
D	2	-13.2	22.7	-17.2	19.7	122.4	17.7	122.8	18.2	109.2	17.2	106.8	17.4
D	3	-12.8	21.9	-14.5	16.7	143.1	20.7	136.3	20.2	130.4	20.6	122.2	20.0
D	4	-12.6	21.7	-19.1	21.9	182.1	26.3	166.2	24.6	169.4	26.8	158.5	25.9
D	5	-9.4	16.1	-24.2	27.7	159.5	23.1	160.3	23.8	150.2	23.7	147.0	24.0
D	SUM	-58.1		-87.1		691.3		674.9		633.2		612.2	
LOAD	PX (KIPS)	-100.0		-100.0		0.		0.		-100.0		-100.1	
LOAD	PY (KIPS)	0.		0.		-100.0		-100.0		-100.0		-99.9	
ACTUAL	PX (KIPS)			-19.5				-9.				-19.1	
ACTUAL	PY (KIPS)			-0.				-19.5				-19.1	

TABLE 37A

SUMMARY OF REACTIONS (KIPS OR FT-KIPS)

SEE FIGURE FOR POSITIVE DIRECTIONS RESULTS FOR POINT LOADS  
 MF = MOMENT AT FOOTING ABOUT Z-AXIS APPLIED AFTER 60 KSI COND. LOADING.  
 TF = MOMENT AT FOOTING ABOUT X-AXIS SIMPLY SUPPORTED, NO RESTRAINTS.

REACTION OR LOAD	NORMALIZED POINT LOADS AT			
	1X+5Y		5X+1Y	
	THEORY	EXPERM	THEORY	EXPERM
1F	-3.55	-13.33	44.70	45.16
2F	4.95	3.54	13.61	13.41
3F	9.09	9.96	-7.78	-3.62
4F	9.43	16.94	-5.79	-7.05
5F	7.14	9.00	-7.57	-4.64
1F	36.65	36.71	27.69	27.90
2F	36.22	36.34	27.64	25.02
3F	35.31	44.90	29.17	33.44
4F	36.74	38.27	29.21	32.37
1W	7.07	9.27	-9.32	-5.27
2W	9.38	12.50	-5.62	-5.04
3W	9.34	15.51	.12	-2.17
4W	5.28	2.91	14.25	14.32
5W	-4.05	-13.63	43.69	42.99
RF	27.06	24.91	44.17	43.26
RE	145.93	156.12	111.71	118.73
RW	27.02	25.66	44.12	44.93
SUMP	200.00	206.49	200.00	206.82
PX	-100.00	-100.66	-100.00	-100.39
PY	-100.00	-99.34	-100.00	-99.61
SUMP	-200.00	-200.00	-200.00	-200.00
SUMP / SUMP	1.00	1.03	1.00	1.03
TW=-MW	-67.76	-137.54	318.52	297.97
MF	.27	15.03	1.57	19.33
TF	1.29	-9.24	.15	2.71
TF=-MF	66.48	143.90	-318.67	-308.72
ACTUAL PX		-19.46		-19.44
ACTUAL PY		-19.21		-19.29



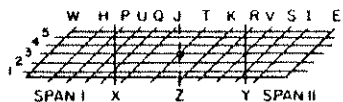
1 KIP = 4.448 kN  
 1 FT = 0.305 m

**TABLE 37B**

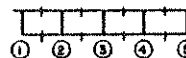
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI CONO. LOADING,  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN I DEFLECTION AT POINT	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1H	-.427	-.846	1.98	-.080	-.227	2.82			
3H	-.339	-.689	2.03	-.164	-.396	2.42			
5H	-.190	-.342	1.79	-.426	-.944	2.21			
1P	-.647	-1.311	2.02	-.155	-.381	2.45			
3P	-.460	-.928	2.02	-.265	-.627	2.35			
1X	-.849	-1.916	2.26	-.216	-.389	1.80			
2X	-.600			-.255					
3X	-.454	-.939	2.07	-.310	-.666	2.15			
4X	-.326			-.383					
5X	-.214	-.385	1.80	-.559	-1.355	2.42			
1U	-.790	-1.715	2.17	-.210	-.418	1.99			
5U	-.157	-.268	1.71	-.414	-.878	2.12			
3O	-.324	-.688	2.12	-.253	-.504	2.00			
5O	-.075	-.119	1.59	-.250	-.549	2.19			
1J	-.607	-1.331	2.19	-.159	-.261	1.64			
3J	-.155	-.315	2.04	-.127	-.244	1.92			
5J	-.031	-.068	2.19	-.106	-.333	1.31			
1T	-.169	-.333	1.97	-.038	-.033	.88			
2T	-.053			-.017					
4T	-.055			-.015					
5T	-.176	-.278	1.58	-.035	-.072	2.05			

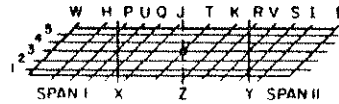


**TABLE 37C**

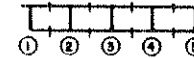
SUMMARY OF DEFLECTIONS (INCHES)

DEFLECTIONS POSITIVE DOWNWARDS

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
 1 IN = 25.4 mm



SPAN II

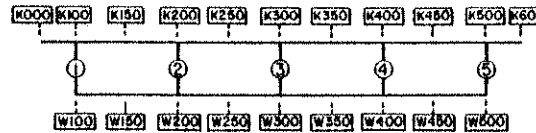
NORMALIZED POINT LOADS AT

DEFLECTION AT POINT	1X+5Y			5X+1Y			*****		
	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T	THEORY	EXPERM	F/T
1K	-.034	-.074	2.19	-.113	-.218	1.93			
3K	-.151	-.284	1.88	-.113	-.197	1.75			
5K	-.647	-1.335	2.06	-.137	-.221	1.62			
1R	-.074	-.123	1.65	-.285	-.571	2.00			
3R	-.314	-.605	1.93	-.223	-.401	1.80			
1Y	-.190	-.353	1.86	-.632	-1.376	2.19			
2Y	-.288			-.407					
3Y	-.426	-.837	1.96	-.280	-.561	2.00			
4Y	-.629			-.215					
5Y	-.927	-1.986	2.14	-.188	-.330	1.75			
1V	-.145	-.273	1.88	-.496	-1.018	2.05			
5V	-.880	-1.764	2.00	-.193	-.388	2.01			
3S	-.433	-.838	1.93	-.252	-.529	2.10			
5S	-.696	-1.318	1.89	-.151	-.329	2.18			
1I	-.170	-.304	1.79	-.463	-.914	1.97			
3I	-.327	-.630	1.92	-.157	-.350	2.24			
5I	-.450	-.843	1.87	-.083	-.224	2.71			
LOAD	PX	-100.0	-100.7	-100.0	-100.4				
LOAD	PY	-100.0	-99.3	-100.0	-99.6				
ACTUAL	PX		-19.5		-19.4				
ACTUAL	PY		-19.2		-19.1				

TABLE 37D

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION A

TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

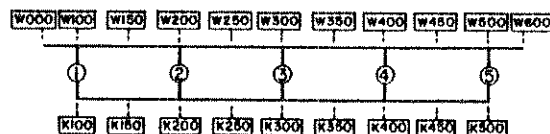
1 KIP = 4.448 kN  
 1 IN = 25.4 mm

GAGE TYPE	GAGE LOC.	IX+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
K	K000	-296	-1628	-599	-143	-1015	-247			
K	K100	-357	-630	-725	-163	-263	-312			
K	K150	-336	-686	-536	-142	-338	-230			
K	K200	-329	-354	-367	-160	-146	-150			
K	K250	-305	-299	-321	-151	-116	-131			
K	K300	-312	-378	-321	-151	-232	-154			
K	K350	-259	-257	-289	-187	-163	-190			
K	K400	-230	-281	-229	-242	-323	-233			
K	K450	-212	-182	-203	-298	-237	-285			
K	K500	-245	-219	-202	-417	-357	-287			
K	K600	-218	-81	-82	-393	-158	-162			
W	W100	815	1602	1592	352	560	515			
W	W150	1103	1129	1138	414	442	425			
W	W200	1181	1288	1294	536	528	579			
W	W250	1121	964	973	541	698	591			
W	W300	1158	1187	1151	586	911	861			
W	W350	963	868	824	741	815	798			
W	W400	856	676	699	982	970	969			
W	W450	714	564	650	1166	1199	1224			
W	W500	639	266	291	1247	1338	1370			
LOAD	PX (KIPS)	-100.0	-100.7		-100.0	-100.4				
LOAD	PY (KIPS)	-100.0	-99.3		-100.0	-99.6				
ACTUAL	PX (KIPS)		-19.5			-19.4				
ACTUAL	PY (KIPS)		-19.2			-19.3				

**TABLE 37E**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION B

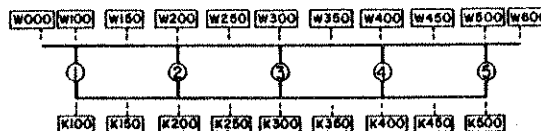
TENSION = + K = CONCRETE STRAIN METERS  
COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	IX+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
W	W000	602	697	1139	271	751	208			
W	W100	602	1139	1141	271	208	205			
W	W150	525	761	792	315	267	274			
W	W200	606	756	780	435	544	537			
W	W250	535	612	666	411	576	532			
W	W300	570	857	764	447	746	575			
W	W350	637	809	812	487	522	579			
W	W400	667	910	877	499	799	816			
W	W450	706	612	591	499	746	714			
W	W500	956	692	703	641	741	723			
W	W600	956	756	756	641	656	656			
K	K100	-272	-579	-579	-108	-200	-202			
K	K150	-252	-498	-495	-148	-485	-417			
K	K200	-258	-293	-290	-185	-169	-198			
K	K250	-277	-268	-253	-211	-337	-264			
K	K300	-340	-287	-315	-266	-385	-377			
K	K350	-375	-437	-373	-287	-261	-311			
K	K400	-396	-359	-385	-297	-366	-272			
K	K450	-403	-420	-408	-287	-462	-526			
K	K500	-468	-510	-522	-316	-315	-310			
LOAD	PX (KIPS)	-100.0	-100.7		-100.0	-100.4				
LOAD	PY (KIPS)	-100.0	-99.3		-100.0	-99.6				
ACTUAL	PX (KIPS)		-10.5			-10.4				
ACTUAL	PY (KIPS)		-10.2			-10.3				

TABLE 37F

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION C

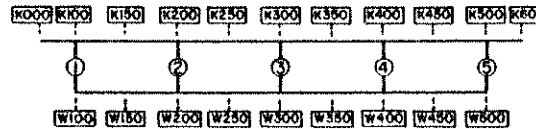
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
W	W000	913	979	639	727	117	773			
W	W100	913	639	623	727	773	780			
W	W150	678	772	727	552	799	792			
W	W200	645	665	680	530	885	892			
W	W250	623	687	620	496	677	769			
W	W300	563	644	661	432	640	639			
W	W350	452	554	585	317	432	409			
W	W400	635	990	953	386	496	487			
W	W450	572	1192	1244	271	298	334			
W	W500	687	1091	1104	227	128	138			
W	W600	687	1336	1336	227	107	107			
K	K100	-444	-618	-635	-366	-371	-366			
K	K150	-384	-810	-646	-326	-361	-388			
K	K200	-381	-393	-474	-321	-394	-321			
K	K250	-365	-442	-373	-297	-325	-369			
K	K300	-335	-372	-313	-258	-380	-400			
K	K350	-282	-203	-245	-194	-437	-316			
K	K400	-273	-285	-215	-162	-175	-193			
K	K450	-277	-301	-332	-125	-192	-183			
K	K500	-313	-606	-586	-87	-169	-170			
LOAD	PX (KIPS)	-100.0	-100.7		-100.0	-100.4				
LOAD	PY (KIPS)	-100.0	-99.3		-100.0	-99.6				
ACTUAL	PX (KIPS)		-19.5			-19.4				
ACTUAL	PY (KIPS)		-19.2			-19.3				

TABLE 37G

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.



SECTION 0

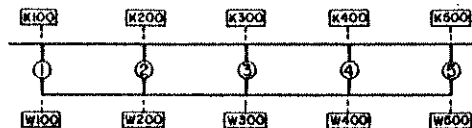
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST	THEORY	MEASD	ADJUST
K	K000	-174	-89	-89	-387	-243	-243			
K	K100	-207	-120	-121	-417	-244	-254			
K	K150	-182	-140	-156	-314	-232	-291			
K	K200	-200	-212	-211	-262	-261	-259			
K	K250	-217	-186	-199	-209	-176	-192			
K	K300	-249	-255	-259	-179	-159	-161			
K	K350	-281	-240	-248	-150	-126	-131			
K	K400	-337	-358	-358	-135	-134	-135			
K	K450	-389	-400	-436	-120	-116	-122			
K	K500	-506	-413	-420	-134	-127	-127			
K	K600	-463	-788	-788	-112	-159	-159			
W	W100	494	708	726	1225	1615	1667			
W	W150	584	495	497	1216	1103	1138			
W	W200	733	708	701	1066	1204	1189			
W	W250	812	692	710	826	704	729			
W	W300	950	0	877	682	0	631			
W	W350	1057	900	953	532	453	484			
W	W400	1243	1267	1266	445	704	682			
W	W450	1329	1033	1041	333	368	334			
W	W500	1288	644	643	266	357	398			
LOAD	PX (KIPS)	-100.0	-100.7		-100.0	-100.4				
LOAD	PY (KIPS)	-100.0	-99.7		-100.0	-99.6				
ACTUAL	PX (KIPS)		-19.5			-19.4				
ACTUAL	PY (KIPS)		-19.2			-19.7				

TABLE 37H

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



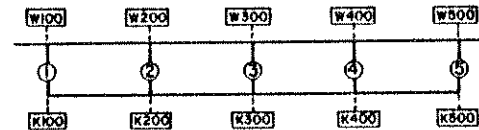
TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION H										
K	K100	-116	-85		10	-55				
K	K200	-132	-149		0	-64				
K	K300	-167	-177		-23	-33				
K	K400	-190	-262		-85	-71				
K	K500	-241	-190		-218	-122				
W	W100	144	144		-20	197				
W	W200	169	426		3	314				
W	W300	203	639		38	176				
W	W400	232	415		112	1029				
W	W500	263	687		232	1428				
SECTION F										
K	K100	-222	-224		-90	-124				
K	K200	-328	-429		-112	-174				
K	K400	-220	-308		-224	-395				
K	K500	-155	-125		-240	-109				
W	W100	244	341		89	235				
W	W200	404	1262		137	426				
W	W400	262	745		301	965				
W	W500	150	783		246	1870				

**TABLE 371**

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED. NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,F,F,G



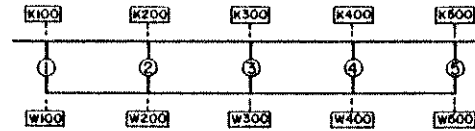
TENSION = +      K = CONCRETE STRAIN METERS  
 COMPRESSION = -      W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	1X+5Y			NORMALIZED POINT LOADS AT 5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION J										
W	W100	-164	-59		-87	-48				
W	W200	-5	277		-15	49				
W	W300	90	447		50	245				
W	W400	172	463		116	432				
W	W500	256	724		173	666				
K	K100	169	1572		92	29				
K	K200	8	85		16	21				
K	K300	-107	-201		-60	-42				
K	K400	-203	-217		-136	-227				
K	K500	-264	-389		-178	-224				
SECTION K										
W	W100	238	442		217	490				
W	W200	158	410		123	416				
W	W300	85	442		41	208				
W	W400	2	250		-15	112				
W	W500	-139	-112		-67	-75				
K	K100	-241	-366		-236	-425				
K	K200	-185	-270		-150	-114				
K	K300	-102	-127		-49	-40				
K	K400	-3	-21		14	14				
K	K500	131	741		62	10				

TABLE 37J

SUMMARY OF STRAINS (MICRO IN/IN)

RESULTS FOR POINT LOADS  
 APPLIED AFTER 60 KSI COND. LOADING.  
 SIMPLY SUPPORTED, NO RESTRAINTS.  
 LOADING SHOWN IN TABLES D,E,F,G



TENSION = + K = CONCRETE STRAIN METERS  
 COMPRESSION = - W = WELDABLE STRAIN GAGES

GAGE TYPE	GAGE LOC.	NORMALIZED POINT LOADS AT								
		1X+5Y			5X+1Y			*****		
		THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST	THEORY	MEASR	ADJUST
SECTION G										
K	K100	-133	-183		-397	-600				
K	K200	-177	-202		-296	-322				
K	K400	-283	-295		-118	-123				
K	K500	-221	-123		-102	-117				
W	W100	120	314		476	1897				
W	W200	208	575		391	933				
W	W400	368	1400		142	618				
W	W500	224	2480		109	384				
SECTION I										
K	K100	-217	-106		-196	-32				
K	K200	-186	-227		-79	-51				
K	K300	-177	-191		-26	6				
K	K400	-134	-132		-8	-11				
K	K500	-96	-58		-2	-38				
W	W100	225	426		198	320				
W	W200	225	692		103	517				
W	W300	215	740		42	336				
W	W400	168	628		17	48				
W	W500	117	202		-2	139				



**TABLE 37K**

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING.  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

SECTION	GIRDER	IX+5Y				NORMALIZED POINT LOADS AT 5X+1Y			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT COMPRESSION FLANGE MID-DEPTH									
A	1	106.3	21.9	113.4	23.0	48.7	13.4	37.3	8.7
A	2	115.5	23.8	133.5	27.1	55.1	15.2	61.6	14.4
A	3	107.0	22.1	116.7	23.7	56.6	15.6	49.8	21.0
A	4	83.2	17.2	89.9	18.2	85.4	23.8	123.6	29.0
A	5	72.8	15.0	39.9	8.1	117.4	32.3	114.6	26.9
A	SUM	484.8		493.4		363.3		426.9	
D	1	61.8	12.7	60.8	13.8	118.6	32.6	141.9	31.9
D	2	71.6	14.8	83.0	18.8	92.4	25.4	138.4	31.1
D	3	88.8	18.3	101.6	23.0	63.8	17.5	73.8	16.6
D	4	118.5	24.4	125.7	28.5	48.4	13.3	60.0	13.5
D	5	144.3	29.8	70.6	16.0	40.5	11.1	31.2	7.0
D	SUM	485.0		441.8		363.6		445.4	
MOMENTS ABOUT TENSION FLANGE STEEL									
A	1	77.7	16.1	219.6	36.4	31.3	8.7	95.9	26.4
A	2	139.7	29.0	134.9	22.4	69.9	16.0	55.8	15.4
A	3	121.2	25.1	109.1	18.1	66.2	18.4	52.4	14.4
A	4	93.8	19.4	83.3	13.8	108.5	30.1	80.5	22.2
A	5	59.0	10.4	56.2	9.3	93.7	26.0	78.8	21.7
A	SUM	482.5		603.0		360.6		363.4	
D	1	38.8	8.0	44.7	7.8	93.9	26.0	95.7	26.4
D	2	78.9	16.4	79.0	13.8	117.3	32.5	100.1	27.6
D	3	102.9	21.4	96.5	16.8	74.0	20.5	64.3	17.7
D	4	148.8	30.9	142.9	24.2	52.2	14.5	51.1	14.1
D	5	112.4	23.3	211.0	36.7	23.8	6.6	51.8	14.3
D	SUM	481.7		574.1		361.1		363.0	
LOAD	PX (KIPS)	-100.0		-100.7		-100.0		-100.4	
LOAD	PY (KIPS)	-100.0		-99.3		-100.0		-99.6	
ACTUAL	PX (KIPS)			-19.5				-19.4	
ACTUAL	PY (KIPS)			-19.2				-19.3	

TABLE 3/L

DISTRIBUTION OF MOMENTS TO EACH GIRDER  
(KIP-FT AND PERCENTAGE)

RESULTS FOR POINT LOADS  
APPLIED AFTER 60 KSI COND. LOADING,  
SIMPLY SUPPORTED, NO RESTRAINTS.



1 KIP = 4.448 kN  
1 FT = 0.305 m

1 FT-KIP = 1.356 kN-m  
1 FT-KIP/FT = 4.448 kN-m/m

NORMALIZED POINT LOADS AT

SECTION	GIRDER	1X+5Y				5X+1Y				*****			
		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL		THEORY		EXPERIMENTAL	
		K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT	K-FT	PCT
MOMENTS ABOUT ENTIRE GROSS SECTION NEUTRAL AXIS													
A	1	90.3	18.7	168.0	30.7	79.0	10.8	67.6	17.3				
A	2	129.1	26.7	133.5	24.4	58.4	16.1	58.3	14.9				
A	3	115.0	23.8	112.1	20.5	62.0	17.1	69.8	17.8				
A	4	89.2	18.4	86.0	15.7	98.3	27.2	100.6	25.7				
A	5	60.0	12.4	48.2	8.8	104.1	28.8	95.3	24.3				
A	SUM	483.5		547.8		361.8		391.6					
D	1	48.9	10.1	53.2	10.6	104.7	28.9	120.6	28.6				
D	2	75.7	15.7	81.1	16.1	106.3	29.4	120.8	28.7				
D	3	96.7	20.0	99.2	19.7	69.5	19.2	69.5	16.5				
D	4	135.5	28.0	133.7	26.6	50.5	13.9	55.9	13.3				
D	5	126.4	26.2	136.1	27.0	31.1	8.6	54.2	12.9				
D	SUM	483.2		503.4		362.2		421.0					
MOMENTS ABOUT INDIVIDUAL GIRDER NEUTRAL AXIS													
A	1	90.4	18.7	147.1	29.0	79.3	10.9	62.2	15.8				
A	2	129.0	26.7	124.2	24.5	58.3	16.1	55.5	14.1				
A	3	114.7	23.7	106.4	21.0	61.9	17.1	74.9	19.0				
A	4	89.0	18.4	82.1	16.2	98.4	27.2	104.0	26.4				
A	5	60.1	12.4	47.1	9.3	103.5	28.6	97.5	24.7				
A	SUM	483.3		506.8		361.4		394.1					
D	1	49.6	10.3	57.0	11.6	104.1	28.9	132.1	31.1				
D	2	75.5	15.6	80.8	16.4	106.4	29.4	128.4	30.3				
D	3	96.5	20.0	98.8	20.0	69.4	19.1	70.5	16.6				
D	4	135.6	28.1	127.7	25.9	50.4	13.9	57.3	13.5				
D	5	125.8	26.0	129.0	26.2	31.8	8.8	36.0	8.5				
D	SUM	482.9		493.4		362.2		424.3					
LOAD	PX (KIPS)	-100.0		-100.7		-100.0		-100.4					
LOAD	PY (KIPS)	-100.0		-99.3		-100.0		-99.6					
ACTUAL	PX (KIPS)			-19.5				-19.4					
ACTUAL	PY (KIPS)			-19.2				-19.3					