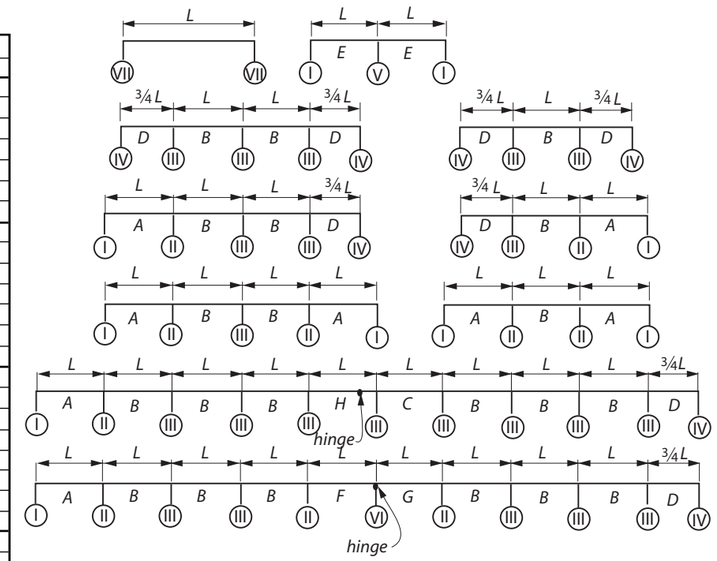
Unfactored Loads	Support Type	Length of Span "L"														
		16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
Slab Dead Load Reaction DC (k/ft of slab width)	I	0.83	1.02	1.18	1.40	1.65	1.85	2.13	2.36	2.67	2.87	3.27	3.64	3.93	4.33	4.75
	II	2.40	2.96	3.43	4.09	4.80	5.39	6.20	6.86	7.78	8.75	9.52	10.59	11.44	12.61	13.84
	III	1.96	2.42	2.80	3.34	3.92	4.40	5.06	5.60	6.35	7.14	7.77	8.64	9.33	10.29	11.29
	IV	0.59	0.73	0.84	1.00	1.18	1.32	1.52	1.68	1.91	2.15	2.34	2.60	2.81	3.09	3.39
	V	2.62	3.23	3.75	4.47	5.25	5.89	6.78	7.50	8.50	9.56	10.40	11.58	12.50	13.78	15.47
	VI	1.66	2.04	2.37	2.82	3.32	3.72	4.28	4.74	5.37	6.04	6.57	7.31	7.89	8.70	9.55
	VII	1.25	1.52	1.81	2.13	2.48	2.84	3.15	3.56	4.00	4.46	4.95	5.46	6.13	6.96	7.70
Uniform Load Coefficient (Use for railings, curbs, and sidewalk)	I	6.29	7.07	7.86	8.64	9.43	10.21	11.00	11.78	12.57	12.76	14.14	14.93	15.71	16.50	16.90
	II	18.29	20.58	22.87	25.15	27.44	29.73	32.02	34.30	36.59	38.88	41.16	43.45	45.74	48.03	50.31
	III	14.93	16.80	18.67	20.53	22.40	24.27	26.13	28.00	29.86	31.73	33.60	35.46	37.33	39.20	41.06
	IV	4.49	5.05	5.61	6.17	6.73	7.29	7.85	8.41	8.98	9.54	10.10	10.66	11.22	11.78	12.34
	V	19.99	22.49	24.99	27.49	29.99	32.49	34.99	37.49	39.99	42.49	44.99	47.49	49.99	52.49	54.99
	VI	12.63	14.21	15.78	17.36	18.94	20.52	22.10	23.68	25.25	26.83	28.41	29.99	31.57	33.14	34.72
	VII	8.00	9.00	10.00	11.00	12.00	13.00	13.62	14.62	15.61	16.60	18.00	19.00	20.00	21.00	22.00
Live Load Reaction HL 93 Vechicle Truck only (kips per lane) (no dynamic allowance)	I	42.30	43.12	43.78	44.34	44.81	45.21	45.55	46.57	47.68	49.00	50.10	51.16	52.11	52.98	53.77
	II	48.68	49.35	52.35	55.07	57.24	59.08	60.65	61.87	62.95	63.89	64.70	65.43	66.15	66.79	67.16
	III	47.91	48.30	48.61	50.91	53.45	55.59	57.38	58.95	60.33	61.55	62.64	63.62	64.42	64.89	65.31
	IV	40.01	41.06	41.90	42.60	43.22	43.74	44.19	44.57	44.91	45.21	45.48	45.72	46.79	47.84	48.80
	V	48.24	51.20	53.13	56.17	58.49	60.07	61.42	62.60	63.63	64.53	65.24	65.80	66.29	66.74	67.15
	VI	42.22	43.06	43.74	44.29	44.75	46.46	47.99	49.49	50.80	51.96	52.99	53.91	54.74	55.49	56.23
	VII	43.72	44.42	45.00	45.44	45.82	46.75	47.98	49.58	50.98	52.22	53.32	54.30	55.19	55.99	56.71
Dynamic Allowance Factor		33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%	33%
Live Load Reaction HL 93 Vechicle Lane only (kips per lane) (no dynamic allowance)	I	4.52	5.09	5.66	6.22	6.79	7.35	7.92	8.49	9.05	9.62	10.18	10.75	11.32	11.88	12.45
	II	12.15	13.67	15.19	16.71	18.23	19.74	21.26	22.78	24.30	25.82	27.34	28.86	30.38	31.90	33.42
	III	10.62	11.95	13.28	14.61	15.93	17.26	18.59	19.92	21.25	22.57	23.90	25.23	26.56	27.89	29.21
	IV	3.67	4.13	4.59	5.05	5.51	5.97	6.43	6.89	7.35	7.81	8.27	8.73	9.19	9.65	10.11
	V	12.69	14.28	15.87	17.45	19.04	20.63	22.21	23.80	25.39	26.98	28.56	30.15	31.74	33.32	34.91
	VI	9.19	10.34	11.48	12.63	13.78	14.93	16.08	17.22	18.37	19.52	20.67	21.82	22.96	24.11	25.26
	VII	5.11	5.75	6.39	7.03	7.67	8.31	8.95	9.59	10.23	10.87	11.51	12.15	12.79	13.43	14.07
Live Load Reaction P15-Loads (kip per lane) (kips per lane) (no dynamic allowance)	I	54.83	54.84	57.42	60.80	63.80	66.34	68.35	71.04	73.05	74.82	76.47	79.82	82.84	85.57	88.23
	II	60.91	69.53	76.02	81.14	88.43	96.75	103.75	109.69	115.19	123.15	130.69	137.57	143.76	151.19	158.87
	III	54.00	60.82	68.18	73.77	78.27	82.73	90.39	97.33	103.39	108.67	113.32	120.19	127.31	133.40	138.89
	IV	56.01	56.02	56.02	56.03	56.03	59.01	61.74	64.09	66.14	68.56	70.72	72.64	74.36	75.92	77.34
	V	65.84	73.40	79.45	84.40	93.29	101.76	109.02	115.32	120.22	129.44	137.12	144.00	150.19	158.88	167.46
	VI	56.13	55.20	61.72	68.10	73.89	78.25	83.11	87.77	91.88	95.51	98.74	104.25	110.09	115.30	120.30
	VII	53.97	53.98	59.36	63.78	67.46	70.58	73.25	75.57	77.60	79.39	80.98	85.23	89.07	92.54	95.70
Dynamic Allowance Factor		25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
Cap Dead Load (below slab soffit) (kip per lineal ft)	I	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
	II	0.51	0.47	0.45	0.41	0.39	0.36	0.34								
	III	0.51	0.47	0.45	0.41	0.39	0.36	0.34								
	IV	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88
	V	0.51	0.47	0.45	0.41	0.39	0.36	0.34								
	VI	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
	VII	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88

STANDARD SLAB BRIDGE SUPPORT DESIGN DATA



TYPICAL LAYOUTS

For determination of support types. Support type shown thus: ◯
Type of span shown thus: A

Support Type	Assumed Total Depth of Section
I IV VII	"T" plus 60"
II III V Spans 16'-24'	24"
II III V Spans 26'-44'	"T"
VI	"T" plus 18"

Skew Angle (In degree)	"K"
20 - 26	.34
27 - 32	.36
33 - 38	.38
39 - 44	.40
45 - 50	.42

REACTION COEFFICIENT "K"
SKEWED BRIDGES

To be used in pile calculation when bridge skew is 20° or more