

Appendix VIII

The Complete Results of the Dead Load, Live Load and Earthquake Load Effects for the Prestressed Concrete Girder Bridge

Table VIII-1. The complete results of the dead load, live load and earthquake load effects for the prestressed concrete girder bridge.

		Earthquake (UL)	Earthquake (SUL)	Dead	Live	Ultimate (UL)	Ultimate (SUL)
	M4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	M5	-4.51E+04	-5.35E+04	-1.45E+04	-4.10E+03	-4.66E+04	-5.22E+04
	M6	-1.00E+05	-1.19E+05	-1.13E+04	-3.22E+03	-7.96E+04	-9.21E+04
	M7	1.00E+05	1.19E+05	-1.13E+04	-3.22E+03	5.38E+04	6.63E+04
	M8	4.51E+04	5.35E+04	-1.45E+04	-4.10E+03	1.35E+04	1.91E+04
Axial Load (N)	M9	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	M10	-3.47E+04	-4.12E+04	2.57E+06	0.00E+00	2.55E+06	2.54E+06
	M11	-4.95E+04	-5.87E+04	2.51E+06	0.00E+00	2.48E+06	2.47E+06
	M12	0.00E+00	0.00E+00	2.60E+06	5.61E+05	2.88E+06	2.88E+06
	M13	4.95E+04	5.87E+04	2.51E+06	5.38E+05	2.82E+06	2.82E+06
	M14	3.47E+04	4.12E+04	2.57E+06	5.64E+05	2.88E+06	2.88E+06
	M4 (z-z)	0.00E+00	0.00E+00	1.45E+09	3.47E+08	1.62E+09	1.62E+09
	M5 (z-z)	-1.34E+08	-1.59E+08	1.39E+09	3.30E+08	1.47E+09	1.45E+09
	M6 (z-z)	3.09E+08	3.66E+08	1.19E+09	2.75E+08	1.53E+09	1.57E+09
	M7 (z-z)	-3.09E+08	-3.66E+08	1.19E+09	2.75E+08	1.12E+09	1.08E+09
	M8 (z-z)	1.34E+08	1.59E+08	1.39E+09	3.30E+08	1.64E+09	1.66E+09
Moment (N-mm)	M9 (z-z)	0.00E+00	0.00E+00	1.45E+09	3.47E+08	1.62E+09	1.62E+09
	M10 (y-y)	1.51E+08	1.79E+08	-6.13E+07	-1.73E+07	3.08E+07	4.96E+07
	M11 (y-y)	-1.76E+08	-2.08E+08	1.37E+07	3.71E+06	-1.01E+08	-1.23E+08
	M12 (y-y)	1.30E+08	1.55E+08	0.00E+00	0.00E+00	8.70E+07	1.03E+08
	M13 (y-y)	-1.76E+08	-2.08E+08	-1.37E+07	-3.71E+06	-1.33E+08	-1.55E+08
	M14 (y-y)	1.51E+08	1.79E+08	6.13E+07	1.73E+07	1.71E+08	1.90E+08