MOMBASA-PIER(F)

No	L(m)	Case 10 M (tm)	Case 10 S (t)	Case 10 N (t)	Case 11 M (tm)	Case 11 S (t)	Case 11 N (t)	Case 12 M (tm)	Case 12 S (t)	Case 12 N (t)
12- 13	0.000	518.176	-1868.185	-8.280	947.763	-1375.514	55.764	471.076	-1364.861	-20.242
* 1	0.963	-846.580	-961.719	-8.280	-102.769	-806.277	55.764	-528.570	-708.001	-20.242
* 2	1.925	-1325.437	-29.354	-8.280	-604.889	-237.631	55.764	-886.249	-32.374	-20.242
* 3	2.888	-893.525	930.848	-8.280	-559.640	331.606	55.764	-583.961	663.425	-20.242
13- 12	3.850	474.088	1916.894	-8.280	32.884	900.252	55.764	396.382	1377.951	-20.242
13- 14	0.000	337.543	-840.596	0.000	189.216	-472.963	0.000	244.596	-609.128	0.000
14- 13	0.800	0.000	-0.169	0.000	0.000	-0.077	0.000	0.000	-0.123	0.000
2- 9	0.000	-31.461	29.827	-1598.611	233.940	-55.739	-1267.479	-69.649	35.855	-1147.310
* 1	1.750	20.736	29.827	-1635.087	136.397	-55.739	-1293.911	-6.903	35.855	-1173.742
* 2	3.500	72.932	29.827	-1671.563	38.854	-55.739	-1320.343	55.843	35.855	-1200.174
* 3	5.250	125.128	29.827	-1708.039	-58.689	-55.739	-1346.775	118.590	35.855	-1226.606
9- 2	7.000	177.325	29.827	-1744.515	-156.232	-55.739	-1373.207	181.336	35.855	-1253.038
3- 10	0.000	-226.025	63.988	-2652.063	190.597	-52.343	-2177.415	-185.511	52.575	-1931.863
* 1	1.750	-114.046	63.988	-2688.539	98.997	-52.343	-2203.847	-93.505	52.575	-1958.295
* 2	3.500	-2.068	63.988	-2725.015	7.397	-52.343	-2230.279	-1.499	52.575	-1984.727
* 3	5.250	109.910	63.988	-2761.491	-84.203	-52.343	-2256.711	90.508	52.575	-2011.159
10- 3	7.000	221.889	63.988	-2797.967	-175.804	-52.343	-2283.143	182.514	52.575	-2037.591
4- 11	0.000	19.956	-4.459	-2565.195	0.227	-0.051	-2630.068	14.461	-3.231	-1860.887
* 1	1.750	12.153	-4.459	-2601.671	0.138	-0.051	-2656.500	8.806	-3.231	-1887.319
* 2	3.500	4.349	-4.459	-2638.147	0.050	-0.051	-2682.932	3.151	-3.231	-1913.751
* 3	5.250	-3.455	-4.459	-2674.624	-0.039	-0.051	-2709.364	-2.504	-3.231	-1940.183
11- 4	7.000	-11.259	-4.459	-2711.100	-0.127	-0.051	-2735.796	-8.159	-3.231	-1966.615
5- 12	0.000	313.193	-81.075	-3710.408	-190.710	52.368	-2177.741	248.677	-64.957	-2698.780
* 1	1.750	171.312	-81.075	-3746.884	-99.066	52.368	-2204.173	135.002	-64.957	-2725.212
* 2	3.500	29.431	-81.075	-3783.361	-7.421	52.368	-2230.605	21.327	-64.957	-2751.644
* 3	5.250	-112.450	-81.075	-3819.837	84.223	52.368	-2257.037	-92.348	-64.957	-2778.076
12- 5	7.000	-254.331	-81.075	-3856.313	175.868	52.368	-2283.469	-206.023	-64.957	-2804.508
6- 13	0.000	-78.586	-8.280	-2611.585	-234.017	55.764	-1267.487	-10.095	-20.242	-1881.350
* 1	1.750	-93.076	-8.280	-2648.062	-136.430	55.764	-1293.919	-45.517	-20.242	-1907.782
* 2	3.500	-107.566	-8.280	-2684.538	-38.842	55.764	-1320.351	-80.940	-20.242	-1934.214
* 3	5.250	-122.056	-8.280	-2721.014	58.745	55.764	-1346.783	-116.363	-20.242	-1960.646
13- 6	7.000	-136.545	-8.280	-2757.490	156.332	55.764	-1373.215	-151.786	-20.242	-1987.078

MOMBASA-PIER(F)

No	L(m)	Case 13 M (tm)	Case 13 S (t)	Case 13 N (t)	Case 14 M (tm)	Case 14 S (t)	Case 14 N (t)	Case 15 M (tm)	Case 15 S (t)	Case 15 N (t)
1- 2	0.000	0.000	0.000	-659.096	0.000	0.000	0.000	0.000	0.000	0.000
2- 1	0.800	-41.449	-15.104	-659.096	-6.042	-15.104	0.000	-6.042	-15.104	0.000
2- 3	0.000	299.192	887.313	-549.935	-285.195	1263.090	-69.482	18.394	1142.921	22.111
* 1	0.963	432.102	172.462	-549.935	98.290	388.238	-69.482	286.157	268.070	22.111
* 2	1.925	546.697	154.299	-549.935	463.039	370.076	-69.482	535.304	249.907	22.111
* 3	2.888	-26.982	-560.552	-549.935	-14.305	-504.776	-69.482	-57.763	-624.944	22.111
3- 2	3.850	-617.546	-578.715	-549.935	-508.636	-522.938	-69.482	-667.696	-643.107	22.111
3- 4	0.000	-49.151	961.782	-389.455	-720.199	1644.751	-127.816	-503.150	1279.030	68.696
* 1	0.963	155.474	246.931	-389.455	30.825	769.900	-127.816	-104.315	404.179	68.696
* 2	1.925	341.708	228.768	-389.455	762.733	751.737	-127.816	275.769	386.016	68.696
* 3	2.888	-160.257	-486.083	-389.455	174.895	-619.514	-127.816	-186.225	-488.835	68.696
4- 3	3.850	-679.182	-504.246	-389.455	-429.814	-637.677	-127.816	-665.221	-506.998	68.696
4- 5	0.000	-116.125	963.573	-228.640	-430.041	1990.413	-127.866	-679.682	1351.911	65.465
* 1	0.963	90.224	248.721	-228.640	176.319	619.161	-127.866	-210.663	477.060	65.465
* 2	1.925	278.180	230.559	-228.640	763.216	600.999	-127.866	239.532	458.897	65.465
* 3	2.888	-222.061	-484.293	-228.640	30.217	-770.253	-127.866	-152.278	-415.954	65.465
5- 4	3.850	-739.961	-1199.125	-228.640	-720.359	-1645.085	-127.866	-561.859	-1130.787	65.465
5- 6	0.000	-297.631	410.405	-102.173	-508.683	522.930	-69.508	-789.570	1558.267	6.498
* 1	0.963	46.213	392.223	-102.173	-13.856	504.749	-69.508	70.830	883.686	6.498
* 2	1.925	372.218	374.061	-102.173	462.977	486.586	-69.508	912.200	865.523	6.498
* 3	2.888	10.169	-340.791	-102.173	97.832	-388.265	-69.508	433.938	-505.728	6.498
6- 5	3.850	-369.682	-1055.623	-102.173	-285.272	-1263.098	-69.508	-62.006	-1220.561	6.498
6- 7	0.000	29.366	15.104	0.000	-6.042	15.104	0.000	-6.698	671.504	0.000
7- 6	0.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8- 9	0.000	0.000	88.476	711.981	0.000	-0.083	0.000	0.000	-0.179	0.000
9- 8	0.800	169.075	335.657	711.981	189.088	472.804	0.000	133.669	336.593	0.000
9- 10	0.000	629.580	-672.488	592.243	-18.136	-911.118	69.482	264.013	-927.160	-22.111
* 1	0.963	129.774	-363.435	592.243	-621.455	-341.881	69.482	-426.624	-503.939	-22.111
* 2	1.925	-66.317	-42.148	592.243	-676.826	226.765	69.482	-700.259	-61.708	-22.111
* 3	2.888	52.997	292.041	592.243	-184.364	796.002	69.482	-538.716	400.453	-22.111
10- 9	3.850	499.551	638.437	592.243	854.909	1364.648	69.482	76.385	881.583	-22.111
10- 11	0.000	1091.536	-1007.789	421.186	658.140	-908.769	127.816	237.934	-1146.282	-68.696
* 1	0.963	293.041	-648.465	421.186	57.083	-339.532	127.816	-626.219	-645.182	-68.696
* 2	1.925	-153.094	-276.960	421.186	3.971	229.113	127.816	-998.308	-125.152	-68.696
* 3	2.888	-235.699	107.499	421.186	498.695	798.350	127.816	-860.363	414.888	-68.696
11- 10	3.850	57.480	504.112	421.186	1540.227	1366.996	127.816	-193.955	973.817	-68.696
11- 12	0.000	657.143	-1069.434	249.794	1540.100	-1366.821	127.866	-202.113	-990.820	-65.465
* 1	0.963	-176.512	-659.841	249.794	497.938	-797.584	127.866	-879.057	-411.840	-65.465
* 2	1.925	-609.436	-238.119	249.794	4.181	-228.939	127.866	-989.250	185.989	-65.465
* 3	2.888	-630.432	196.610	249.794	57.801	340.298	127.866	-514.178	803.908	-65.465
12- 11	3.850	-227.374	643.441	249.794	658.686	908.944	127.866	563.890	1440.636	-65.465

MOMBASA-PIER(F)

No	L(m)	Case 13 M (tm)	Case 13 S (t)	Case 13 N (t)	Case 14 M (tm)	Case 14 S (t)	Case 14 N (t)	Case 15 M (tm)	Case 15 S (t)	Case 15 N (t)
12- 13	0.000	252.584	-1071.817	112.750	855.519	-1364.799	69.508	378.832	-1354.146	-6.498
* 1	0.963	-559.161	-611.954	112.750	-184.695	-795.562	69.508	-610.496	-697.286	-6.498
* 2	1.925	-921.864	-140.014	112.750	-676.507	-226.916	69.508	-957.867	-21.659	-6.498
* 3	2.888	-824.180	344.984	112.750	-620.940	342.321	69.508	-645.261	674.140	-6.498
13- 12	3.850	-254.231	842.033	112.750	-18.109	910.967	69.508	345.390	1388.665	-6.498
13- 14	0.000	98.955	-334.422	0.000	189.216	-472.963	0.000	244.596	-609.128	0.000
14- 13	0.800	0.000	88.480	0.000	0.000	-0.077	0.000	0.000	-0.123	0.000
2- 9	0.000	-340.641	109.161	-902.417	279.153	-69.482	-1278.194	-24.436	22.111	-1158.025
* 1	1.750	-147.296	111.805	-928.849	157.559	-69.482	-1304.626	14.259	22.111	-1184.457
* 2	3.500	50.677	114.449	-955.281	35.964	-69.482	-1331.058	52.954	22.111	-1210.889
* 3	5.250	253.278	117.094	-981.713	-85.630	-69.482	-1357.490	91.649	22.111	-1237.321
9- 2	7.000	460.505	119.738	-1008.145	-207.224	-69.482	-1383.922	130.344	22.111	-1263.753
3- 10	0.000	-568.396	160.480	-1540.497	211.563	-58.333	-2167.689	-164.546	46.585	-1922.137
* 1	1.750	-285.242	163.125	-1566.929	109.480	-58.333	-2194.121	-83.022	46.585	-1948.569
* 2	3.500	2.540	165.769	-1593.361	7.397	-58.333	-2220.553	-1.499	46.585	-1975.001
* 3	5.250	294.949	168.413	-1619.793	-94.686	-58.333	-2246.985	80.025	46.585	-2001.433
10- 3	7.000	591.985	171.057	-1646.225	-196.769	-58.333	-2273.417	161.549	46.585	-2027.865
4- 11	0.000	-563.058	160.814	-1467.818	0.227	-0.051	-2628.090	14.461	-3.231	-1858.909
* 1	1.750	-279.319	163.459	-1494.250	0.138	-0.051	-2654.522	8.806	-3.231	-1885.341
* 2	3.500	9.048	166.103	-1520.682	0.050	-0.051	-2680.954	3.151	-3.231	-1911.773
* 3	5.250	302.042	168.747	-1547.114	-0.039	-0.051	-2707.386	-2.504	-3.231	-1938.205
11- 4	7.000	599.663	171.391	-1573.546	-0.127	-0.051	-2733.818	-8.159	-3.231	-1964.637
5- 12	0.000	-442.329	126.467	-1609.530	-211.676	58.358	-2168.016	227.711	-58.967	-2689.054
* 1	1.750	-218.699	129.111	-1635.962	-109.548	58.358	-2194.448	124.519	-58.967	-2715.486
* 2	3.500	9.559	131.755	-1662.394	-7.421	58.358	-2220.880	21.327	-58.967	-2741.918
* 3	5.250	242.445	134.400	-1688.826	94.706	58.358	-2247.312	-81.865	-58.967	-2768.350
12- 5	7.000	479.958	137.044	-1715.258	196.833	58.358	-2273.744	-185.058	-58.967	-2794.782
6- 13	0.000	-399.047	102.173	-1070.727	-279.230	69.508	-1278.202	-55.308	-6.498	-1892.065
* 1	1.750	-217.930	104.818	-1097.159	-157.592	69.508	-1304.634	-66.679	-6.498	-1918.497
* 2	3.500	-32.185	107.462	-1123.591	-35.953	69.508	-1331.066	-78.051	-6.498	-1944.929
* 3	5.250	158.187	110.106	-1150.023	85.686	69.508	-1357.498	-89.422	-6.498	-1971.361
13- 6	7.000	353.186	112.750	-1176.455	207.324	69.508	-1383.930	-100.794	-6.498	-1997.793

MOMBASA-PIER(F)

PICK-UP No. 1 *

No.	L (m)	M. MAXIMUM Case	M (tm)	S (t)	N (t)	M. MINIMUM Case	M (tm)	S (t)	N (t)
1 - 2	0.000	C-10	0.000	0.000	0.000	C- 8	0.000	0.000	-1087.508
2 - 1	0.800	C-10	-8.337	-20.844	0.000	C- 8	-66.759	-20.844	-1087.508
2 - 3	0.000	C- 8	504.809	1201.384	-907.842	C- 9	-395.829	1743.600	-96.573
* 1	0.963	C- 8	654.464	214.889	-907.842	C- 9	133.895	536.305	-96.573
* 2	1.925	C- 7	800.649	329.899	58.711	C- 9	637.765	511.240	-96.573
* 3	2.888	C- 6	-2.098	-722.318	-92.418	C-10	-80.427	-861.887	29.827
3 - 2	3.850	C- 9	-702.115	-721.119	-96.573	C- 7	-971.473	-945.660	58.711
3 - 4	0.000	C- 8	26.319	1295.206	-647.427	C- 6	-1039.780	2420.472	-183.162
* 1	0.963	C- 8	266.325	308.711	-647.427	C-10	-145.154	557.816	93.814
* 2	1.925	C- 6	1213.677	1144.913	-183.162	C-10	379.410	532.752	93.814
* 3	2.888	C- 6	335.327	-924.642	-183.162	C- 7	-260.521	-709.021	141.083
4 - 3	3.850	C- 6	-566.234	-949.706	-183.162	C- 8	-1012.538	-727.913	-647.427
4 - 5	0.000	C- 8	-83.462	1297.748	-382.076	C- 7	-978.485	1940.138	135.758
* 1	0.963	C- 6	337.467	924.111	-183.238	C- 7	-301.052	689.643	135.758
* 2	1.925	C- 6	1214.406	899.047	-183.238	C-10	329.403	633.228	89.355
* 3	2.888	C- 6	99.288	-1170.508	-183.238	C- 8	-356.530	-700.306	-382.076
5 - 4	3.850	C-10	-776.611	-1560.536	89.355	C- 8	-1113.495	-1686.775	-382.076
5 - 6	0.000	C- 8	-367.396	544.023	-169.032	C- 7	-1172.558	2455.676	32.953
* 1	0.963	C- 7	138.273	1347.525	32.953	C- 9	-19.835	696.018	-96.608
* 2	1.925	C- 7	1422.536	1322.461	32.953	C- 8	490.997	493.869	-169.032
* 3	2.888	C- 7	715.166	-747.094	32.953	C- 8	-41.646	-492.626	-169.032
6 - 5	3.850	C- 7	-16.556	-1733.563	32.953	C- 8	-598.822	-1479.095	-169.032
6 - 7	0.000	C- 8	50.084	20.844	0.000	C- 7	-9.420	1103.904	0.000
7 - 6	0.800	C- 6	0.000	0.000	0.000	C- 8	0.000	0.000	0.000
8 - 9	0.000	C- 6	0.000	-0.125	0.000	C- 8	0.000	145.998	1174.769
9 - 8	0.800	C- 6	275.821	689.677	0.000	C- 7	184.379	464.929	0.000
9 - 10	0.000	C- 8	989.976	-904.748	977.650	C- 9	-27.577	-1257.879	96.573
* 1	0.963	C- 8	310.142	-503.703	977.650	C- 9	-860.673	-472.332	96.573
* 2	1.925	C- 8	26.586	-82.359	977.650	C-10	-969.938	-85.692	-29.827
* 3	2.888	C- 8	158.682	360.159	977.650	C-10	-747.525	552.089	-29.827
10 - 9	3.850	C- 6	1464.634	2038.861	92.418	C-10	100.799	1216.049	-29.827
10 - 11	0.000	C- 8	1688.494	-1439.912	699.783	C-10	322.688	-1581.918	-93.814
* 1	0.963	C- 8	533.236	-955.920	699.783	C-10	-869.891	-890.400	-93.814
* 2	1.925	C- 6	303.597	384.936	183.162	C-10	-1383.421	-172.759	-93.814
* 3	2.888	C- 6	1074.104	1215.285	183.162	C-10	-1193.105	572.496	-93.814
11 - 10	3.850	C- 6	2642.190	2044.771	183.162	C-10	-273.508	1343.818	-93.814
11 - 12	0.000	C- 6	2641.998	-2044.506	183.238	C-10	-284.767	-1367.282	-89.355
* 1	0.963	C- 6	1072.951	-1214.158	183.238	C-10	-1218.902	-568.289	-89.355
* 2	1.925	C- 6	303.914	-384.672	183.238	C-10	-1370.921	256.714	-89.355
* 3	2.888	C- 6	333.288	445.676	183.238	C- 8	-990.661	210.222	416.980
12 - 11	3.850	C- 6	1161.011	1275.162	183.238	C- 8	-487.784	838.713	416.980

MOMBASA-PIER(F)

PICK-UP No. 1 *

No.	L (m)	M. MAXIMUM Case	M (tm)	S (t)	N (t)	M. MINIMUM Case	M (tm)	S (t)	N (t)
12 - 13	0.000	C- 6	1465.556	-2039.090	92.457	C- 8	318.510	-1537.990	186.484
* 1	0.963	C- 6	-98.275	-1208.741	92.457	C- 8	-851.322	-888.109	186.484
* 2	1.925	C- 6	-862.101	-379.255	92.457	C- 8	-1385.110	-218.188	186.484
* 3	2.888	C- 6	-827.511	451.093	92.457	C- 8	-1264.003	473.167	186.484
13 - 12	3.850	C- 7	605.196	2068.782	-32.953	C- 8	-468.316	1184.518	186.484
13 - 14	0.000	C- 7	367.391	-914.589	0.000	C- 8	127.083	-461.325	0.000
14 - 13	0.800	C- 6	0.000	-0.116	0.000	C- 7	0.000	-0.192	0.000
2 - 9	0.000	C- 9	387.492	-96.573	-1764.443	C- 8	-571.568	179.666	-1222.228
* 1	1.750	C- 9	218.489	-96.573	-1800.919	C- 8	-253.334	184.029	-1258.704
* 2	3.500	C- 7	81.059	58.711	-1699.254	C- 9	49.486	-96.573	-1837.396
* 3	5.250	C- 8	406.039	192.755	-1331.656	C- 9	-119.517	-96.573	-1873.872
9 - 2	7.000	C- 8	747.178	197.118	-1368.132	C- 9	-288.519	-96.573	-1910.348
3 - 10	0.000	C- 6	330.756	-90.743	-3167.854	C- 8	-921.582	260.415	-2116.940
* 1	1.750	C- 6	171.955	-90.743	-3204.331	C- 8	-462.039	264.778	-2153.417
* 2	3.500	C- 6	13.154	-90.743	-3240.807	C-10	-2.068	63.988	-2725.015
* 3	5.250	C- 8	479.955	273.504	-2226.369	C- 6	-145.647	-90.743	-3277.283
10 - 3	7.000	C- 8	962.404	277.867	-2262.845	C- 6	-304.448	-90.743	-3313.759
4 - 11	0.000	C- 7	23.829	-5.325	-2674.224	C- 8	-929.077	265.351	-2025.661
* 1	1.750	C- 7	14.511	-5.325	-2710.700	C- 8	-460.895	269.714	-2062.137
* 2	3.500	C- 8	14.922	274.077	-2098.613	C- 9	0.069	-0.070	-3599.617
* 3	5.250	C- 8	498.374	278.440	-2135.089	C- 7	-4.126	-5.325	-2783.652
11 - 4	7.000	C- 8	989.462	282.803	-2171.565	C- 7	-13.444	-5.325	-2820.128
5 - 12	0.000	C- 7	394.062	-102.805	-4028.061	C- 8	-746.098	213.044	-2230.799
* 1	1.750	C- 7	214.153	-102.805	-4064.537	C- 8	-369.453	217.407	-2267.275
* 2	3.500	C- 7	34.243	-102.805	-4101.013	C- 6	-13.191	90.782	-3241.300
* 3	5.250	C- 8	406.743	226.133	-2340.227	C- 7	-145.666	-102.805	-4137.489
12 - 5	7.000	C- 8	806.294	230.496	-2376.703	C- 7	-325.575	-102.805	-4173.966
6 - 13	0.000	C- 7	-7.135	-32.953	-2837.466	C- 8	-648.907	169.032	-1499.939
* 1	1.750	C- 7	-64.803	-32.953	-2873.943	C- 8	-349.283	173.395	-1536.415
* 2	3.500	C- 8	-42.024	177.758	-1572.891	C- 7	-122.470	-32.953	-2910.419
* 3	5.250	C- 8	272.870	182.121	-1609.367	C- 7	-180.137	-32.953	-2946.895
13 - 6	7.000	C- 8	595.400	186.484	-1645.843	C- 7	-237.805	-32.953	-2983.371

PICK-UP No. 1 *

No.	L (m)	S. MAXIMUM Case	M (tm)	S (t)	N (t)	S. MINIMUM Case	M (tm)	S (t)	N (t)
1 - 2	0.000	C- 8	0.000	0.000	-1087.508	C- 6	0.000	0.000	0.000
2 - 1	0.800	C- 8	-66.759	-20.844	-1087.508	C- 6	-8.337	-20.844	0.000
2 - 3	0.000	C- 6	-384.828	1803.736	-92.418	C- 8	504.809	1201.384	-907.842
* 1	0.963	C- 6	161.250	553.242	-92.418	C- 8	654.464	214.889	-907.842
* 2	1.925	C- 6	681.413	528.177	-92.418	C- 8	778.879	189.825	-907.842
* 3	2.888	C- 9	-20.455	-696.055	-96.573	C- 7	-73.804	-920.596	58.711
3 - 2	3.850	C- 9	-702.115	-721.119	-96.573	C- 7	-971.473	-945.660	58.711
3 - 4	0.000	C- 6	-1039.780	2420.472	-183.162	C- 8	26.319	1295.206	-647.427
* 1	0.963	C- 6	100.214	1169.977	-183.162	C- 8	266.325	308.711	-647.427
* 2	1.925	C- 6	1213.677	1144.913	-183.162	C- 8	480.997	283.647	-647.427
* 3	2.888	C-10	-258.094	-674.543	93.814	C- 6	335.327	-924.642	-183.162
4 - 3	3.850	C-10	-919.061	-699.607	93.814	C- 6	-566.234	-949.706	-183.162
4 - 5	0.000	C- 6	-566.577	2993.666	-183.238	C- 8	-83.462	1297.748	-382.076
* 1	0.963	C- 6	337.467	924.111	-183.238	C- 8	158.992	311.253	-382.076
* 2	1.925	C- 6	1214.406	899.047	-183.238	C- 8	376.109	285.189	-382.076
* 3	2.888	C-10	-211.342	-574.067	89.355	C- 6	99.288	-1170.508	-183.238
5 - 4	3.850	C-10	-776.611	-1560.536	89.355	C- 6	-1040.022	-2420.977	-183.238
5 - 6	0.000	C- 7	-1172.558	2455.676	32.953	C- 8	-367.396	544.023	-169.032
* 1	0.963	C- 7	138.273	1347.525	32.953	C- 8	74.092	518.933	-169.032
* 2	1.925	C- 7	1422.536	1322.461	32.953	C- 8	490.997	493.869	-169.032
* 3	2.888	C- 8	-41.646	-492.626	-169.032	C- 7	715.166	-747.094	32.953
6 - 5	3.850	C- 8	-598.822	-1479.095	-169.032	C- 6	-384.944	-1803.748	-92.457
6 - 7	0.000	C- 7	-9.420	1103.904	0.000	C- 8	50.084	20.844	0.000
7 - 6	0.800	C- 6	0.000	0.000	0.000	C- 8	0.000	0.000	0.000
8 - 9	0.000	C- 8	0.000	145.998	1174.769	C- 7	0.000	-0.283	0.000
9 - 8	0.800	C- 6	275.821	689.677	0.000	C- 8	242.798	463.384	1174.769
9 - 10	0.000	C- 8	989.976	-904.748	977.650	C- 7	470.928	-1307.278	-58.711
* 1	0.963	C- 6	-828.223	-450.460	92.418	C- 7	-506.753	-717.855	-58.711
* 2	1.925	C- 6	-862.583	379.026	92.418	C- 7	-901.247	-96.953	-58.711
* 3	2.888	C- 6	-97.768	1209.375	92.418	C- 8	158.682	360.159	977.650
10 - 9	3.850	C- 6	1464.634	2038.861	92.418	C- 8	726.090	822.933	977.650
10 - 11	0.000	C- 9	902.573	-1254.151	177.372	C- 7	466.845	-1666.793	-141.083
* 1	0.963	C- 6	332.271	-444.550	183.162	C- 8	533.236	-955.920	699.783
* 2	1.925	C- 6	303.597	384.936	183.162	C- 8	-145.498	-451.717	699.783
* 3	2.888	C- 6	1074.104	1215.285	183.162	C- 8	-329.155	73.747	699.783
11 - 10	3.850	C- 6	2642.190	2044.771	183.162	C- 8	2.579	619.380	699.783
11 - 12	0.000	C-10	-284.767	-1367.282	-89.355	C- 6	2641.998	-2044.506	183.238
* 1	0.963	C-10	-1218.902	-568.289	-89.355	C- 6	1072.951	-1214.158	183.238
* 2	1.925	C- 7	-1335.246	299.958	-135.758	C- 8	-898.491	-398.187	416.980
* 3	2.888	C- 7	-610.476	1210.633	-135.758	C- 8	-990.661	210.222	416.980
12 - 11	3.850	C- 7	1004.597	2152.454	-135.758	C- 8	-487.784	838.713	416.980

MOMBASA-PIER(F)

PICK-UP No. 1 *

No.	L (m)	S. MAXIMUM Case	M (tm)	S (t)	N (t)	S. MINIMUM Case	M (tm)	S (t)	N (t)
12 - 13	0.000	C- 8	318.510	-1537.990	186.484	C- 6	1465.556	-2039.090	92.457
* 1	0.963	C- 8	-851.322	-888.109	186.484	C- 6	-98.275	-1208.741	92.457
* 2	1.925	C-10	-1325.437	-29.354	-8.280	C- 6	-862.101	-379.255	92.457
* 3	2.888	C- 7	-867.641	998.594	-32.953	C- 6	-827.511	451.093	92.457
13 - 12	3.850	C- 7	605.196	2068.782	-32.953	C- 8	-468.316	1184.518	186.484
13 - 14	0.000	C- 8	127.083	-461.325	0.000	C- 7	367.391	-914.589	0.000
14 - 13	0.800	C- 8	0.000	146.003	0.000	C- 7	0.000	-0.192	0.000
2 - 9	0.000	C- 8	-571.568	179.666	-1222.228	C- 9	387.492	-96.573	-1764.443
* 1	1.750	C- 8	-253.334	184.029	-1258.704	C- 9	218.489	-96.573	-1800.919
* 2	3.500	C- 8	72.534	188.392	-1295.180	C- 9	49.486	-96.573	-1837.396
* 3	5.250	C- 8	406.039	192.755	-1331.656	C- 9	-119.517	-96.573	-1873.872
9 - 2	7.000	C- 8	747.178	197.118	-1368.132	C- 9	-288.519	-96.573	-1910.348
3 - 10	0.000	C- 8	-921.582	260.415	-2116.940	C- 6	330.756	-90.743	-3167.854
* 1	1.750	C- 8	-462.039	264.778	-2153.417	C- 6	171.955	-90.743	-3204.331
* 2	3.500	C- 8	5.140	269.141	-2189.893	C- 6	13.154	-90.743	-3240.807
* 3	5.250	C- 8	479.955	273.504	-2226.369	C- 6	-145.647	-90.743	-3277.283
10 - 3	7.000	C- 8	962.404	277.867	-2262.845	C- 6	-304.448	-90.743	-3313.759
4 - 11	0.000	C- 8	-929.077	265.351	-2025.661	C- 7	23.829	-5.325	-2674.224
* 1	1.750	C- 8	-460.895	269.714	-2062.137	C- 7	14.511	-5.325	-2710.700
* 2	3.500	C- 8	14.922	274.077	-2098.613	C- 7	5.193	-5.325	-2747.176
* 3	5.250	C- 8	498.374	278.440	-2135.089	C- 7	-4.126	-5.325	-2783.652
11 - 4	7.000	C- 8	989.462	282.803	-2171.565	C- 7	-13.444	-5.325	-2820.128
5 - 12	0.000	C- 8	-746.098	213.044	-2230.799	C- 7	394.062	-102.805	-4028.061
* 1	1.750	C- 8	-369.453	217.407	-2267.275	C- 7	214.153	-102.805	-4064.537
* 2	3.500	C- 8	14.827	221.770	-2303.751	C- 7	34.243	-102.805	-4101.013
* 3	5.250	C- 8	406.743	226.133	-2340.227	C- 7	-145.666	-102.805	-4137.489
12 - 5	7.000	C- 8	806.294	230.496	-2376.703	C- 7	-325.575	-102.805	-4173.966
6 - 13	0.000	C- 8	-648.907	169.032	-1499.939	C- 7	-7.135	-32.953	-2837.466
* 1	1.750	C- 8	-349.283	173.395	-1536.415	C- 7	-64.803	-32.953	-2873.943
* 2	3.500	C- 8	-42.024	177.758	-1572.891	C- 7	-122.470	-32.953	-2910.419
* 3	5.250	C- 8	272.870	182.121	-1609.367	C- 7	-180.137	-32.953	-2946.895
13 - 6	7.000	C- 8	595.400	186.484	-1645.843	C- 7	-237.805	-32.953	-2983.371

MOMBASA-PIER(F)

PICK-UP No. 1 *

No.	L (m)	N. MAXIMUM Case	M (tm)	S (t)	N (t)	N. MINIMUM Case	M (tm)	S (t)	N (t)
1 - 2	0.000	C- 9	0.000	0.000	0.000	C- 8	0.000	0.000	-1087.508
2 - 1	0.800	C- 9	-8.337	-20.844	0.000	C- 8	-66.759	-20.844	-1087.508
2 - 3	0.000	C- 7	116.094	1605.458	58.711	C- 8	504.809	1201.384	-907.842
* 1	0.963	C- 7	471.230	354.963	58.711	C- 8	654.464	214.889	-907.842
* 2	1.925	C- 7	800.649	329.899	58.711	C- 8	778.879	189.825	-907.842
* 3	2.888	C- 7	-73.804	-920.596	58.711	C- 8	-46.558	-796.670	-907.842
3 - 2	3.850	C- 7	-971.473	-945.660	58.711	C- 8	-895.263	-821.734	-907.842
3 - 4	0.000	C- 7	-681.650	1817.033	141.083	C- 8	26.319	1295.206	-647.427
* 1	0.963	C- 7	-122.768	566.538	141.083	C- 8	266.325	308.711	-647.427
* 2	1.925	C- 7	410.186	541.474	141.083	C- 8	480.997	283.647	-647.427
* 3	2.888	C- 7	-260.521	-709.021	141.083	C- 8	-254.090	-702.848	-647.427
4 - 3	3.850	C- 7	-954.655	-734.086	141.083	C- 8	-1012.538	-727.913	-647.427
4 - 5	0.000	C- 7	-978.485	1940.138	135.758	C- 8	-83.462	1297.748	-382.076
* 1	0.963	C- 7	-301.052	689.643	135.758	C- 8	158.992	311.253	-382.076
* 2	1.925	C- 7	350.329	664.579	135.758	C- 8	376.109	286.189	-382.076
* 3	2.888	C- 7	-201.828	-585.916	135.758	C- 8	-356.530	-700.306	-382.076
5 - 4	3.850	C- 7	-778.496	-1572.385	135.758	C- 8	-1113.495	-1686.775	-382.076
5 - 6	0.000	C- 7	-1172.558	2455.676	32.953	C- 8	-367.396	544.023	-169.032
* 1	0.963	C- 7	138.273	1347.525	32.953	C- 8	74.092	518.933	-169.032
* 2	1.925	C- 7	1422.536	1322.461	32.953	C- 8	490.997	493.869	-169.032
* 3	2.888	C- 7	715.166	-747.094	32.953	C- 8	-41.646	-492.626	-169.032
6 - 5	3.850	C- 7	-16.556	-1733.563	32.953	C- 8	-598.822	-1479.095	-169.032
6 - 7	0.000	C- 6	-8.337	20.844	0.000	C- 6	-8.337	20.844	0.000
7 - 6	0.800	C- 6	0.000	0.000	0.000	C- 6	0.000	0.000	0.000
8 - 9	0.000	C- 8	0.000	145.998	1174.769	C- 6	0.000	-0.125	0.000
9 - 8	0.800	C- 8	242.798	463.384	1174.769	C- 6	275.821	689.677	0.000
9 - 10	0.000	C- 8	989.976	-904.748	977.650	C- 7	470.928	-1307.278	-58.711
* 1	0.963	C- 8	310.142	-503.703	977.650	C- 7	-506.753	-717.855	-58.711
* 2	1.925	C- 8	26.586	-82.359	977.650	C- 7	-901.247	-96.953	-58.711
* 3	2.888	C- 8	158.682	360.159	977.650	C- 7	-682.449	556.719	-58.711
10 - 9	3.850	C- 8	726.090	822.933	977.650	C- 7	180.069	1241.804	-58.711
10 - 11	0.000	C- 8	1688.494	-1439.912	699.783	C- 7	466.845	-1666.793	-141.083
* 1	0.963	C- 8	533.236	-955.920	699.783	C- 7	-795.177	-948.871	-141.083
* 2	1.925	C- 8	-145.498	-451.717	699.783	C- 7	-1350.163	-199.602	-141.083
* 3	2.888	C- 8	-329.155	73.747	699.783	C- 7	-1168.343	582.572	-141.083
11 - 10	3.850	C- 8	2.579	619.380	699.783	C- 7	-219.209	1396.025	-141.083
11 - 12	0.000	C- 8	992.041	-1552.185	416.980	C- 7	-232.653	-1424.104	-135.758
* 1	0.963	C- 8	-231.399	-985.249	416.980	C- 7	-1199.091	-577.679	-135.758
* 2	1.925	C- 8	-898.491	-398.187	416.980	C- 7	-1335.246	299.958	-135.758
* 3	2.888	C- 8	-990.661	210.222	416.980	C- 7	-610.476	1210.633	-135.758
12 - 11	3.850	C- 8	-487.784	838.713	416.980	C- 7	1004.597	2152.454	-135.758

MOMBASA-PIER(F)

PICK-UP No. 1 *

No.	L (m)	N. MAXIMUM Case	M (tm)	S (t)	N (t)	N. MINIMUM Case	M (tm)	S (t)	N (t)
12 - 13	0.000	C- 8	318.510	-1537.990	186.484	C- 7	679.022	-2021.512	-32.953
* 1	0.963	C- 8	-851.322	-888.109	186.484	C- 7	-800.846	-1046.586	-32.953
* 2	1.925	C- 8	-1385.110	-218.188	186.484	C- 7	-1326.345	-40.581	-32.953
* 3	2.888	C- 8	-1264.003	473.167	186.484	C- 7	-867.641	998.594	-32.953
13 - 12	3.850	C- 8	-468.316	1184.518	186.484	C- 7	605.195	2068.782	-32.953
13 - 14	0.000	C- 6	276.013	-689.917	0.000	C- 6	276.013	-689.917	0.000
14 - 13	0.800	C- 6	0.000	-0.116	0.000	C- 6	0.000	-0.116	0.000
2 - 9	0.000	C- 8	-571.568	179.666	-1222.228	C- 6	376.490	-92.418	-1824.580
* 1	1.750	C- 8	-253.334	184.029	-1258.704	C- 6	214.758	-92.418	-1861.056
* 2	3.500	C- 8	72.534	188.392	-1295.180	C- 6	53.026	-92.418	-1897.532
* 3	5.250	C- 8	406.039	192.755	-1331.656	C- 6	-108.707	-92.418	-1934.008
9 - 2	7.000	C- 8	747.178	197.118	-1368.132	C- 6	-270.439	-92.418	-1970.485
3 - 10	0.000	C- 8	-921.582	260.415	-2116.940	C- 6	330.756	-90.743	-3167.854
* 1	1.750	C- 8	-462.039	264.778	-2153.417	C- 6	171.955	-90.743	-3204.331
* 2	3.500	C- 8	5.140	269.141	-2189.893	C- 6	13.154	-90.743	-3240.807
* 3	5.250	C- 8	479.955	273.504	-2226.369	C- 6	-145.647	-90.743	-3277.283
10 - 3	7.000	C- 8	962.404	277.867	-2262.845	C- 6	-304.448	-90.743	-3313.759
4 - 11	0.000	C- 8	-929.077	265.351	-2025.661	C- 6	0.343	-0.076	-3943.372
* 1	1.750	C- 8	-460.895	269.714	-2062.137	C- 6	0.209	-0.076	-3979.849
* 2	3.500	C- 8	14.922	274.077	-2098.613	C- 6	0.075	-0.076	-4016.325
* 3	5.250	C- 8	498.374	278.440	-2135.089	C- 6	-0.058	-0.076	-4052.801
11 - 4	7.000	C- 8	989.462	282.803	-2171.565	C- 6	-0.192	-0.076	-4089.277
5 - 12	0.000	C- 8	-746.098	213.044	-2230.799	C- 7	394.062	-102.805	-4028.061
* 1	1.750	C- 8	-369.453	217.407	-2267.275	C- 7	214.153	-102.805	-4064.537
* 2	3.500	C- 8	14.827	221.770	-2303.751	C- 7	34.243	-102.805	-4101.013
* 3	5.250	C- 8	406.743	226.133	-2340.227	C- 7	-145.666	-102.805	-4137.489
12 - 5	7.000	C- 8	806.294	230.496	-2376.703	C- 7	-325.575	-102.805	-4173.966
6 - 13	0.000	C- 8	-648.907	169.032	-1499.939	C- 7	-7.135	-32.953	-2837.466
* 1	1.750	C- 8	-349.283	173.395	-1536.415	C- 7	-64.803	-32.953	-2873.943
* 2	3.500	C- 8	-42.024	177.758	-1572.891	C- 7	-122.470	-32.953	-2910.419
* 3	5.250	C- 8	272.870	182.121	-1609.367	C- 7	-180.137	-32.953	-2946.895
13 - 6	7.000	C- 8	595.400	186.484	-1645.843	C- 7	-237.805	-32.953	-2983.371

MOMBASA-PIER(F)

PICK-UP No. 2 *

No.	L (m)	M. MAXIMUM Case	M (tm)	S (t)	N (t)	M. MINIMUM Case	M (tm)	S (t)	N (t)
1 - 2	0.000	C-15	0.000	0.000	0.000	C-13	0.000	0.000	-659.096
2 - 1	0.800	C-15	-6.042	-15.104	0.000	C-13	-41.449	-15.104	-659.096
2 - 3	0.000	C-13	299.192	887.313	-549.935	C-14	-285.195	1263.090	-69.482
* 1	0.963	C-13	432.102	172.462	-549.935	C-14	98.290	388.238	-69.482
* 2	1.925	C-12	559.891	239.192	35.855	C-14	463.039	370.076	-69.482
* 3	2.888	C-11	-0.036	-515.490	-55.739	C-15	-57.763	-624.944	22.111
3 - 2	3.850	C-11	-504.674	-533.653	-55.739	C-15	-667.696	-643.107	22.111
3 - 4	0.000	C-13	-49.151	961.782	-389.455	C-14	-720.199	1644.751	-127.816
* 1	0.963	C-13	155.474	246.931	-389.455	C-15	-104.315	404.179	68.696
* 2	1.925	C-11	785.756	750.748	-108.082	C-15	275.769	386.016	68.696
* 3	2.888	C-11	196.966	-620.503	-108.082	C-15	-186.225	-488.835	68.696
4 - 3	3.850	C-11	-408.695	-638.666	-108.082	C-13	-679.182	-504.246	-389.455
4 - 5	0.000	C-13	-116.125	963.573	-228.640	C-15	-679.682	1351.911	65.465
* 1	0.963	C-11	198.391	620.150	-108.132	C-15	-210.663	477.060	65.465
* 2	1.925	C-11	786.239	601.988	-108.132	C-15	239.532	458.897	65.465
* 3	2.888	C-11	54.193	-769.264	-108.132	C-13	-222.061	-484.293	-228.640
5 - 4	3.850	C-12	-536.931	-1129.798	85.199	C-13	-739.961	-1199.125	-228.640
5 - 6	0.000	C-13	-297.631	410.405	-102.173	C-15	-789.570	1558.267	6.498
* 1	0.963	C-12	85.110	894.400	20.242	C-14	-13.856	504.749	-69.508
* 2	1.925	C-12	936.787	876.238	20.242	C-13	372.218	374.061	-102.173
* 3	2.888	C-12	468.843	-495.014	20.242	C-13	10.169	-340.791	-102.173
6 - 5	3.850	C-12	-16.793	-1209.846	20.242	C-13	-369.682	-1055.623	-102.173
6 - 7	0.000	C-13	29.366	15.104	0.000	C-12	-6.698	671.504	0.000
7 - 6	0.800	C-11	0.000	0.000	0.000	C-13	0.000	0.000	0.000
8 - 9	0.000	C-14	0.000	-0.083	0.000	C-13	0.000	88.476	711.981
9 - 8	0.800	C-11	189.088	472.804	0.000	C-15	133.669	336.593	0.000
9 - 10	0.000	C-13	629.580	-672.488	592.243	C-14	-18.136	-911.118	69.482
* 1	0.963	C-13	129.774	-363.435	592.243	C-14	-621.455	-341.881	69.482
* 2	1.925	C-13	-66.317	-42.148	592.243	C-15	-700.259	-61.708	-22.111
* 3	2.888	C-13	52.997	292.041	592.243	C-15	-538.716	400.453	-22.111
10 - 9	3.850	C-11	947.153	1375.363	55.739	C-15	76.385	881.583	-22.111
10 - 11	0.000	C-13	1091.536	-1007.789	421.186	C-15	237.934	-1146.282	-68.696
* 1	0.963	C-13	293.041	-648.465	421.186	C-15	-626.219	-645.182	-68.696
* 2	1.925	C-11	119.084	230.103	108.082	C-15	-998.308	-125.152	-68.696
* 3	2.888	C-11	614.761	799.340	108.082	C-15	-860.363	414.888	-68.696
11 - 10	3.850	C-11	1657.244	1367.985	108.082	C-15	-193.955	973.817	-68.696
11 - 12	0.000	C-11	1657.117	-1367.810	108.132	C-15	-202.113	-990.820	-65.465
* 1	0.963	C-11	614.003	-798.573	108.132	C-15	-879.057	-411.840	-65.465
* 2	1.925	C-11	119.294	-229.928	108.132	C-15	-989.250	185.989	-65.465
* 3	2.888	C-11	171.962	339.309	108.132	C-13	-630.432	196.610	249.794
12 - 11	3.850	C-11	771.896	907.955	108.132	C-13	-227.374	643.441	249.794

MOMBASA-PIER(F)

PICK-UP No. 2 *

No.	L (m)	M. MAXIMUM Case	M (tm)	S (t)	N (t)	M. MINIMUM Case	M (tm)	S (t)	N (t)
12 - 13	0.000	C-11	947.763	-1375.514	55.764	C-13	252.584	-1071.817	112.750
* 1	0.963	C-11	-102.769	-805.277	55.764	C-15	-610.496	-697.286	-6.498
* 2	1.925	C-11	-604.889	-237.631	55.764	C-15	-957.867	-21.659	-6.498
* 3	2.888	C-11	-559.640	331.606	55.764	C-13	-824.180	344.984	112.750
13 - 12	3.850	C-12	396.382	1377.951	-20.242	C-13	-254.231	842.033	112.750
13 - 14	0.000	C-15	244.596	-609.128	0.000	C-13	98.955	-334.422	0.000
14 - 13	0.800	C-11	0.000	-0.077	0.000	C-15	0.000	-0.123	0.000
2 - 9	0.000	C-14	279.153	-69.482	-1278.194	C-13	-340.641	109.161	-902.417
* 1	1.750	C-14	157.559	-69.482	-1304.626	C-13	-147.296	111.805	-928.849
* 2	3.500	C-12	55.843	35.855	-1200.174	C-14	35.964	-69.482	-1331.058
* 3	5.250	C-13	253.278	117.094	-981.713	C-14	-85.630	-69.482	-1357.490
9 - 2	7.000	C-13	460.505	119.738	-1008.145	C-14	-207.224	-69.482	-1383.922
3 - 10	0.000	C-14	211.563	-58.333	-2167.689	C-13	-568.396	160.480	-1540.497
* 1	1.750	C-14	109.480	-58.333	-2194.121	C-13	-285.242	163.125	-1566.929
* 2	3.500	C-14	7.397	-58.333	-2220.553	C-12	-1.499	52.575	-1984.727
* 3	5.250	C-13	294.949	168.413	-1619.793	C-14	-94.686	-58.333	-2246.985
10 - 3	7.000	C-13	591.985	171.057	-1646.225	C-14	-196.769	-58.333	-2273.417
4 - 11	0.000	C-12	14.461	-3.231	-1860.887	C-13	-563.058	160.814	-1467.818
* 1	1.750	C-12	8.806	-3.231	-1887.319	C-13	-279.319	163.459	-1494.250
* 2	3.500	C-13	9.048	166.103	-1520.682	C-11	0.050	-0.051	-2682.932
* 3	5.250	C-13	302.042	168.747	-1547.114	C-12	-2.504	-3.231	-1940.183
11 - 4	7.000	C-13	599.663	171.391	-1573.546	C-12	-8.159	-3.231	-1966.615
5 - 12	0.000	C-12	248.677	-64.957	-2698.780	C-13	-442.329	126.467	-1609.530
* 1	1.750	C-12	135.002	-64.957	-2725.212	C-13	-218.699	129.111	-1635.962
* 2	3.500	C-12	21.327	-64.957	-2751.644	C-14	-7.421	58.358	-2220.880
* 3	5.250	C-13	242.445	134.400	-1688.826	C-12	-92.348	-64.957	-2778.076
12 - 5	7.000	C-13	479.958	137.044	-1715.258	C-12	-206.023	-64.957	-2804.508
6 - 13	0.000	C-12	-10.095	-20.242	-1881.350	C-13	-399.047	102.173	-1070.727
* 1	1.750	C-12	-45.517	-20.242	-1907.782	C-13	-217.930	104.818	-1097.159
* 2	3.500	C-13	-32.185	107.462	-1123.591	C-12	-80.940	-20.242	-1934.214
* 3	5.250	C-13	158.187	110.106	-1150.023	C-12	-116.363	-20.242	-1960.646
13 - 6	7.000	C-13	353.186	112.750	-1176.455	C-12	-151.786	-20.242	-1987.078

PICK-UP No. 2 *

No.	L (m)	S. MAXIMUM Case	M (tm)	S (t)	N (t)	S. MINIMUM Case	M (tm)	S (t)	N (t)
1 - 2	0.000	C-13	0.000	0.000	-659.096	C-11	0.000	0.000	0.000
2 - 1	0.800	C-13	-41.449	-15.104	-659.096	C-11	-6.042	-15.104	0.000
2 - 3	0.000	C-14	-285.195	1263.090	-69.482	C-13	299.192	887.313	-549.935
* 1	0.963	C-14	98.290	388.238	-69.482	C-13	432.102	172.462	-549.935
* 2	1.925	C-14	463.039	370.076	-69.482	C-13	546.697	154.299	-549.935
* 3	2.888	C-14	-14.305	-504.776	-69.482	C-12	-43.494	-635.659	35.855
3 - 2	3.850	C-14	-508.636	-522.938	-69.482	C-12	-663.734	-653.822	35.855
3 - 4	0.000	C-14	-720.199	1644.751	-127.816	C-13	-49.151	961.782	-389.455
* 1	0.963	C-14	30.825	769.900	-127.816	C-13	155.474	246.931	-389.455
* 2	1.925	C-14	762.733	751.737	-127.816	C-13	341.708	228.768	-389.455
* 3	2.888	C-13	-160.257	-486.083	-389.455	C-11	196.966	-620.503	-108.082
4 - 3	3.850	C-13	-679.182	-504.246	-389.455	C-11	-408.695	-638.666	-108.082
4 - 5	0.000	C-11	-408.922	1991.402	-108.132	C-13	-116.125	963.573	-228.640
* 1	0.963	C-11	198.391	620.150	-108.132	C-13	90.224	248.721	-228.640
* 2	1.925	C-11	786.239	601.988	-108.132	C-13	278.180	230.559	-228.640
* 3	2.888	C-12	-128.302	-414.965	85.199	C-14	30.217	-770.253	-127.866
5 - 4	3.850	C-12	-536.931	-1129.798	85.199	C-14	-720.359	-1645.085	-127.866
5 - 6	0.000	C-12	-785.608	1568.982	20.242	C-13	-297.631	410.405	-102.173
* 1	0.963	C-12	85.110	894.400	20.242	C-13	46.213	392.223	-102.173
* 2	1.925	C-12	936.787	876.238	20.242	C-13	372.218	374.061	-102.173
* 3	2.888	C-13	10.169	-340.791	-102.173	C-15	433.938	-505.728	6.498
6 - 5	3.850	C-13	-369.682	-1055.623	-102.173	C-14	-285.272	-1263.098	-69.508
6 - 7	0.000	C-12	-6.698	671.504	0.000	C-13	29.366	15.104	0.000
7 - 6	0.800	C-11	0.000	0.000	0.000	C-13	0.000	0.000	0.000
8 - 9	0.000	C-13	0.000	88.476	711.981	C-15	0.000	-0.179	0.000
9 - 8	0.800	C-11	189.088	472.804	0.000	C-13	169.075	335.657	711.981
9 - 10	0.000	C-13	629.580	-672.488	592.243	C-15	264.013	-927.160	-22.111
* 1	0.963	C-11	-560.144	-331.166	55.739	C-15	-426.624	-503.939	-22.111
* 2	1.925	C-11	-605.208	237.480	55.739	C-15	-700.259	-61.708	-22.111
* 3	2.888	C-11	-102.427	806.717	55.739	C-13	52.997	292.041	592.243
10 - 9	3.850	C-11	947.153	1375.363	55.739	C-13	499.551	638.437	592.243
10 - 11	0.000	C-11	771.349	-907.780	108.082	C-15	237.934	-1146.282	-68.696
* 1	0.963	C-11	171.244	-338.543	108.082	C-13	293.041	-648.465	421.186
* 2	1.925	C-11	119.084	230.103	108.082	C-13	-153.094	-276.960	421.186
* 3	2.888	C-11	614.761	799.340	108.082	C-13	-235.699	107.499	421.186
11 - 10	3.850	C-11	1657.244	1367.985	108.082	C-13	57.480	504.112	421.186
11 - 12	0.000	C-15	-202.113	-990.820	-65.465	C-11	1657.117	-1367.810	108.132
* 1	0.963	C-15	-879.057	-411.840	-65.465	C-11	614.003	-798.573	108.132
* 2	1.925	C-15	-989.250	185.989	-65.465	C-13	-609.436	-238.119	249.794
* 3	2.888	C-15	-514.178	803.908	-65.465	C-13	-630.432	196.610	249.794
12 - 11	3.850	C-15	563.890	1440.636	-65.465	C-13	-227.374	643.441	249.794

MOMBASA-PIER(F)

PICK-UP No. 2 *

No.	L (m)	S. MAXIMUM Case	M (tm)	S (t)	N (t)	S. MINIMUM Case	M (tm)	S (t)	N (t)
12 - 13	0.000	C-13	252.584	-1071.817	112.750	C-11	947.763	-1375.514	55.764
* 1	0.963	C-13	-559.161	-611.954	112.750	C-11	-102.769	-806.277	55.764
* 2	1.925	C-15	-957.867	-21.659	-6.498	C-11	-604.889	-237.631	55.764
* 3	2.888	C-15	-645.261	674.140	-6.498	C-11	-559.640	331.606	55.764
13 - 12	3.850	C-15	345.390	1388.665	-6.498	C-13	-254.231	842.033	112.750
13 - 14	0.000	C-13	98.955	-334.422	0.000	C-15	244.596	-609.128	0.000
14 - 13	0.800	C-13	0.000	88.480	0.000	C-15	0.000	-0.123	0.000
2 - 9	0.000	C-13	-340.641	109.161	-902.417	C-14	279.153	-69.482	-1278.194
* 1	1.750	C-13	-147.296	111.805	-928.849	C-14	157.559	-69.482	-1304.626
* 2	3.500	C-13	50.677	114.449	-955.281	C-14	35.964	-69.482	-1331.058
* 3	5.250	C-13	253.278	117.094	-981.713	C-14	-85.630	-69.482	-1357.490
9 - 2	7.000	C-13	460.505	119.738	-1008.145	C-14	-207.224	-69.482	-1383.922
3 - 10	0.000	C-13	-568.396	160.480	-1540.497	C-14	211.563	-58.333	-2167.689
* 1	1.750	C-13	-285.242	163.125	-1566.929	C-14	109.480	-58.333	-2194.121
* 2	3.500	C-13	2.540	165.769	-1593.361	C-14	7.397	-58.333	-2220.553
* 3	5.250	C-13	294.949	168.413	-1619.793	C-14	-94.686	-58.333	-2246.985
10 - 3	7.000	C-13	591.985	171.057	-1646.225	C-14	-196.769	-58.333	-2273.417
4 - 11	0.000	C-13	-563.058	160.814	-1467.818	C-12	14.461	-3.231	-1860.887
* 1	1.750	C-13	-279.319	163.459	-1494.250	C-12	8.806	-3.231	-1887.319
* 2	3.500	C-13	9.048	166.103	-1520.682	C-12	3.151	-3.231	-1913.751
* 3	5.250	C-13	302.042	168.747	-1547.114	C-12	-2.504	-3.231	-1940.183
11 - 4	7.000	C-13	599.663	171.391	-1573.546	C-12	-8.159	-3.231	-1966.615
5 - 12	0.000	C-13	-442.329	126.467	-1609.530	C-12	248.677	-64.957	-2698.780
* 1	1.750	C-13	-218.699	129.111	-1635.962	C-12	135.002	-64.957	-2725.212
* 2	3.500	C-13	9.559	131.755	-1662.394	C-12	21.327	-64.957	-2751.644
* 3	5.250	C-13	242.445	134.400	-1688.826	C-12	-92.348	-64.957	-2778.076
12 - 5	7.000	C-13	479.958	137.044	-1715.258	C-12	-206.023	-64.957	-2804.508
6 - 13	0.000	C-13	-399.047	102.173	-1070.727	C-12	-10.095	-20.242	-1881.350
* 1	1.750	C-13	-217.930	104.818	-1097.159	C-12	-45.517	-20.242	-1907.782
* 2	3.500	C-13	-32.185	107.462	-1123.591	C-12	-80.940	-20.242	-1934.214
* 3	5.250	C-13	158.187	110.106	-1150.023	C-12	-116.363	-20.242	-1960.646
13 - 6	7.000	C-13	353.186	112.750	-1176.455	C-12	-151.786	-20.242	-1987.078

MOMBASA-PIER(F)

PICK-UP No. 2 *

No.	L (m)	N. MAXIMUM Case	M (tm)	S (t)	N (t)	N. MINIMUM Case	M (tm)	S (t)	N (t)
1 - 2	0.000	C-14	0.000	0.000	0.000	C-13	0.000	0.000	-659.096
2 - 1	0.800	C-14	-6.042	-15.104	0.000	C-13	-41.449	-15.104	-659.096
2 - 3	0.000	C-12	63.608	1132.206	35.855	C-13	299.192	887.313	-549.935
* 1	0.963	C-12	321.052	257.355	35.855	C-13	432.102	172.462	-549.935
* 2	1.925	C-12	559.891	239.192	35.855	C-13	546.697	154.299	-549.935
* 3	2.888	C-12	-43.494	-635.659	35.855	C-13	-26.982	-560.552	-549.935
3 - 2	3.850	C-12	-663.734	-653.822	35.855	C-13	-617.546	-578.715	-549.935
3 - 4	0.000	C-12	-478.223	1278.041	88.430	C-13	-49.151	961.782	-389.455
* 1	0.963	C-12	-80.340	403.190	88.430	C-13	155.474	246.931	-389.455
* 2	1.925	C-12	298.792	385.027	88.430	C-13	341.708	228.768	-389.455
* 3	2.888	C-12	-164.154	-489.824	88.430	C-13	-160.257	-486.083	-389.455
4 - 3	3.850	C-12	-644.102	-507.987	88.430	C-13	-679.182	-504.246	-389.455
4 - 5	0.000	C-12	-658.563	1352.900	85.199	C-13	-116.125	963.573	-228.640
* 1	0.963	C-12	-188.591	478.049	85.199	C-13	90.224	248.721	-228.640
* 2	1.925	C-12	262.556	459.886	85.199	C-13	278.180	230.559	-228.640
* 3	2.888	C-12	-128.302	-414.965	85.199	C-13	-222.061	-484.293	-228.640
5 - 4	3.850	C-12	-536.931	-1129.798	85.199	C-13	-739.961	-1199.125	-228.640
5 - 6	0.000	C-12	-785.608	1568.982	20.242	C-13	-297.631	410.405	-102.173
* 1	0.963	C-12	85.110	894.400	20.242	C-13	46.213	392.223	-102.173
* 2	1.925	C-12	936.787	876.238	20.242	C-13	372.218	374.061	-102.173
* 3	2.888	C-12	468.843	-495.014	20.242	C-13	10.169	-340.791	-102.173
6 - 5	3.850	C-12	-16.793	-1209.846	20.242	C-13	-369.682	-1055.623	-102.173
6 - 7	0.000	C-11	-6.042	15.104	0.000	C-11	-6.042	15.104	0.000
7 - 6	0.800	C-11	0.000	0.000	0.000	C-11	0.000	0.000	0.000
8 - 9	0.000	C-13	0.000	88.476	711.981	C-11	0.000	-0.083	0.000
9 - 8	0.800	C-13	169.075	335.657	711.981	C-11	189.088	472.804	0.000
9 - 10	0.000	C-13	629.580	-672.488	592.243	C-12	315.005	-916.445	-35.855
* 1	0.963	C-13	129.774	-363.435	592.243	C-12	-365.314	-493.224	-35.855
* 2	1.925	C-13	-66.317	-42.148	592.243	C-12	-628.641	-50.993	-35.855
* 3	2.888	C-13	52.997	292.041	592.243	C-12	-456.780	411.168	-35.855
10 - 9	3.850	C-13	499.551	638.437	592.243	C-12	168.629	892.298	-35.855
10 - 11	0.000	C-13	1091.536	-1007.789	421.186	C-12	351.143	-1145.293	-88.430
* 1	0.963	C-13	293.041	-648.465	421.186	C-12	-512.057	-644.192	-88.430
* 2	1.925	C-13	-153.094	-276.960	421.186	C-12	-883.195	-124.163	-88.430
* 3	2.888	C-13	-235.699	107.499	421.186	C-12	-744.298	415.877	-88.430
11 - 10	3.850	C-13	57.480	504.112	421.186	C-12	-76.937	974.806	-88.430
11 - 12	0.000	C-13	657.143	-1069.434	249.794	C-12	-85.096	-991.809	-85.199
* 1	0.963	C-13	-176.512	-659.841	249.794	C-12	-762.992	-412.829	-85.199
* 2	1.925	C-13	-609.436	-238.119	249.794	C-12	-874.137	185.000	-85.199
* 3	2.888	C-13	-630.432	196.610	249.794	C-12	-400.017	802.919	-85.199
12 - 11	3.850	C-13	-227.374	643.441	249.794	C-12	677.099	1439.647	-85.199

MOMBASA-PIER(F)

PICK-UP No. 2 *

No.	L (m)	N. MAXIMUM Case	M (tm)	S (t)	N (t)	N. MINIMUM Case	M (tm)	S (t)	N (t)
12 - 13	0.000	C-13	252.584	-1071.817	112.750	C-12	471.076	-1364.861	-20.242
* 1	0.963	C-13	-559.161	-611.954	112.750	C-12	-528.570	-708.001	-20.242
* 2	1.925	C-13	-921.864	-140.014	112.750	C-12	-886.249	-32.374	-20.242
* 3	2.888	C-13	-824.180	344.984	112.750	C-12	-583.961	663.425	-20.242
13 - 12	3.850	C-13	-254.231	842.033	112.750	C-12	396.382	1377.951	-20.242
13 - 14	0.000	C-11	189.216	-472.963	0.000	C-11	189.216	-472.963	0.000
14 - 13	0.800	C-11	0.000	-0.077	0.000	C-11	0.000	-0.077	0.000
2 - 9	0.000	C-13	-340.641	109.161	-902.417	C-14	279.153	-69.482	-1278.194
* 1	1.750	C-13	-147.296	111.805	-928.849	C-14	157.559	-69.482	-1304.626
* 2	3.500	C-13	50.677	114.449	-955.281	C-14	35.964	-69.482	-1331.058
* 3	5.250	C-13	253.278	117.094	-981.713	C-14	-85.630	-69.482	-1357.490
9 - 2	7.000	C-13	460.505	119.738	-1008.145	C-14	-207.224	-69.482	-1383.922
3 - 10	0.000	C-13	-568.396	160.480	-1540.497	C-11	190.597	-52.343	-2177.415
* 1	1.750	C-13	-285.242	163.125	-1566.929	C-11	98.997	-52.343	-2203.847
* 2	3.500	C-13	2.540	165.769	-1593.361	C-11	7.397	-52.343	-2230.279
* 3	5.250	C-13	294.949	168.413	-1619.793	C-11	-84.203	-52.343	-2256.711
10 - 3	7.000	C-13	591.985	171.057	-1646.225	C-11	-175.804	-52.343	-2283.143
4 - 11	0.000	C-13	-563.058	160.814	-1467.818	C-11	0.227	-0.051	-2630.068
* 1	1.750	C-13	-279.319	163.459	-1494.250	C-11	0.138	-0.051	-2656.500
* 2	3.500	C-13	9.048	166.103	-1520.682	C-11	0.050	-0.051	-2682.932
* 3	5.250	C-13	302.042	168.747	-1547.114	C-11	-0.039	-0.051	-2709.364
11 - 4	7.000	C-13	599.663	171.391	-1573.546	C-11	-0.127	-0.051	-2735.796
5 - 12	0.000	C-13	-442.329	126.467	-1609.530	C-12	248.677	-64.957	-2698.780
* 1	1.750	C-13	-218.699	129.111	-1635.962	C-12	135.002	-64.957	-2725.212
* 2	3.500	C-13	9.559	131.755	-1662.394	C-12	21.327	-64.957	-2751.644
* 3	5.250	C-13	242.445	134.400	-1688.826	C-12	-92.348	-64.957	-2778.076
12 - 5	7.000	C-13	479.958	137.044	-1715.258	C-12	-206.023	-64.957	-2804.508
6 - 13	0.000	C-13	-399.047	102.173	-1070.727	C-15	-55.308	-6.498	-1892.065
* 1	1.750	C-13	-217.930	104.818	-1097.159	C-15	-66.679	-6.498	-1918.497
* 2	3.500	C-13	-32.185	107.462	-1123.591	C-15	-78.051	-6.498	-1944.929
* 3	5.250	C-13	158.187	110.106	-1150.023	C-15	-89.422	-6.498	-1971.361
13 - 6	7.000	C-13	353.186	112.750	-1176.455	C-15	-100.794	-6.498	-1997.793

Longitudinal derection

Calculation of pillar

action force for bottom of pillar (S.L.S)

State \ load		N KN	H KN	y m	M = H・y KNm
Super structure	Rd	6270.0	—	—	—
	Rℓ	2929.2	—	—	—
Braking		—	514.0	7.100	3649.4
Seismic		—	822.0	7.100	5836.2
beam		23.6×1.00×0.80 ×17.00 =321.0	32.1	6.500	208.7
Pillar		23.6×0.80²×6.00×5 =453.3	45.4	3.000	136.2
Braking		9973.5	514.0	—	3649.4
Seismic		7044.3	899.5	—	6181.1

action force for bottom of pillar (U.L.S)

State \ load	N KN	H KN	M KNm
Braking	9973.5×1.2 ×1.15 =13763.5	514.0×1.25×1.1 =706.8	3649.4×1.25×1.1 =5018.0
Seismic	7044.3×1.2 ×1.15 =9721.2	899.5 ×1.5 ×1.1 =1484.1	6181.1×1.5 ×1.1 =10198.8

Calculation of stress for U.L.S.

for action force of one pillar

N = 9721.2／5 = 1944.3 KN

H = 1484.1／5 = 296.9 KN

M = 10198.8／5 = 2039.8 KNm

Notice , this case is abridge for small action force or near than the pillar of Uhulu bridge and the Bar arrengement is arrange following below.

$$As = As' = Y_{32} - 6^{NO} \times 2$$

Calculation of stability for Foundation

1) action force for bottom of foundation

(1) Longitudinal direction for S.L.S

State \ load		N KN	H KN	y m	M = H・y KNm
Super structure	Rd	6270.0	－	－	－
	Rℓ	2929.2	－	－	－
Braking		－	514.0	8.100	4163.4
Seismic		－	822.0	8.100	6658.2
beam		23.6×1.00×0.80 ×17.00 ＝321.0	32.1	7.500	240.8
Pillar		23.6×0.80² ×6.00 ×5 ＝453.3	45.4	4.000	181.6
footing		23.6×17.00 ×4.00 ×1.00＝1604.8	160.5	0.500	80.4
surcharge		18.6×17.00 ×4.00 ×1.00＝1264.8	－	－	－
Braking		12843.1	514.0	－	4163.4
Seismic		9913.9	1060.0	－	7161.0

(2) Longitudinal direction for U.L.S

State \ load	N KN	H KN	M KNm
Braking	12843.1 ×1.2 ×1.15＝17723.5	514.0 ×1.25×1.1 ＝ 706.8	4163.4×1.25×1.1 ＝ 5724.7
Seismic	9913.9×1.2 ×1.15＝13681.2	1060.0×1.5 ×1.1 ＝1749.0	7161.0×1.5 ×1.1 ＝11815.7

2) Stability of Foundation for Longitudinal direction.

(1) For S.L.S

(a) Braking state

$$e=\frac{M}{N}=\frac{4163.4}{12843.1}=0.325^{m} < \frac{B}{6}=\frac{4.00}{6}=0.667^{m}$$

$$q=\frac{N}{B\cdot L}(1\pm\frac{6e}{B})=\frac{12843.1}{4.00\times 17.00}=(1\pm\frac{6\times 0.325}{4.00})=\begin{cases}281.0KN/m^2\\96.8KN/m^2\end{cases}\lesssim qa=350KN/m^2$$

$$Fs=\frac{N\cdot\mu}{H}=\frac{12843.1\times 0.50}{514.0}=12.5>1.5 \quad OK$$

(b) Seismic state

$$e=\frac{M}{N}=\frac{7161.0}{9913.9}=0.723^{cm} > \frac{B}{6}=0.667^{m}$$

$$\chi=\frac{B}{2}-e=\frac{4.00}{2}-0.723=1.277^{m}$$

$$q_{max}=\frac{2\cdot N}{3\cdot\chi\cdot L}=\frac{2\times 9913.9}{3\times 1.277\times 17.00}=304.5\ KN/m^2 < qa=350\ KN/m^2$$

$$Fs=\frac{N\cdot\mu}{H}=\frac{9913.9\times 0.50}{1060.0}=4.6>1.5 \quad OK$$

(2) For U.L.S

a) Braking state

$$e=\frac{M}{N}=\frac{5724.7}{17723.5}=0.323^{m} < \frac{B}{6}=0.667^{m}$$

$$q=\frac{N}{B\cdot L}(1\pm\frac{6e}{B})=\frac{17723.5}{4.00\times 17.00}=(1\pm\frac{6\times 0.323}{4.00})=\begin{cases}387.0\ KN/m^2\\134.4\ KN/m^2\end{cases}< qa=525.0KN/m^2$$

$$Fs=\frac{N\cdot\mu}{H}=\frac{17723.5\times 0.50}{706.8}=12.5>1.1$$

b) Seismic state

$$e=\frac{M}{N}=\frac{11815.7}{13681.2}=0.864^{cm} > \frac{B}{6}=0.667^{m}$$

$$\chi=\frac{B}{2}-e=\frac{4.00}{2}-0.864=1.136^{m}$$

$$q_{max}=\frac{2\cdot N}{3\cdot\chi\cdot L}=\frac{2\times 13681.2}{3\times 1.136\times 17.00}=472.3\ KN/m^2 < qa=525.0\ KN/m^2$$

$$Fs=\frac{N\cdot\mu}{H}=\frac{13681.2\times 0.50}{1749.0}=3.9>1.1 \quad OK$$

Notice : this case is follow the footing of the pillar of Uhuru bridge.

$$As=Y_{20}-150^{ctc}$$

Crossing direction

1) Calculation for Beam

a) middle span … U.L.S

$Mu.max = 1422.6^{KNm}$
$Su.max = 1322.5^{KN}$ from out·put of Computer

section $b = 80^{cm}$ $h = 100$ $d = 86.5$ $d' = 13.5$

$As = Y_{25} - 6^{NO} \times 2 = 4.909 \times 12^{NO} = 58.90\ cm^2$

$$P = \frac{As}{b\,d} \times 100 = \frac{58.90}{80 \times 86.5} \times 100 = 0.851\ \%$$

$$\chi = \frac{0.87fy \cdot As}{0.40fcu \cdot b} = \frac{0.87 \times 41000 \times 58.90}{0.40 \times 2500 \times 80} = 26.4^{cm}$$

$$Z = d - \frac{\chi}{2} = 86.5 - \frac{26.4}{2} = 73.3^{cm} < 0.95d = 0.95 \times 86.5 = 82.2^{cm}\ \text{OK}$$

$$M_{RS} = 0.87fyAs \cdot Z = 0.87 \times 41000 \times 58.90 \times 73.3 \times 10^{-5} = 1540.0^{KNm} > Mu = 1422.6^{KNm}$$

$$M_{RC} = 0.40fcubx \cdot Z = 0.40 \times 2500 \times 80 \times 26.4 \times 73.3 \times 10^{-5} = 1548.1^{KNm} > Mu = 1422.6^{KNm}\ \text{OK}$$

$$Vc = \frac{Su}{bd} = \frac{1322.5 \times 10^3}{80 \times 86.5} = 191.1\ N/cm^2$$

$$Vca = 50.0 + 15.0\ \left(\frac{0.851 - 0.50}{0.500}\right) = 60.6\ N/cm^2$$

shering bar

$$Asv = \frac{b\,(Vc - Vca) \cdot Sv}{0.87fyv}$$

$$= \frac{80(191.1 - 60.6) \times 15.0}{0.87 \times 41000} \fallingdotseq 4.0\ cm^2$$

$$\fallingdotseq Asu = Y_{16} - 2^{NO} = 4.0\ cm^2 \quad \text{OK}$$

b) middle fulcrum

$Mu.mix = -1172.6^{KNm} < Mu.max = 1422.6^{KNm}$

Notice : this case is abridge.

Crossing direction

2) Calculation for Pillar –U.L.S.

$Mu.max = 989.5\ ^{KNm}$ $N = 2171.5^{KN}$
$Su.max = 282.8\ ^{KN}$
} … from output of Computer

section $b = 80^{cm}$ $h = 80$ $d = 72.5$ $d' = 7.5$

$$As = As' = Y_{32} - 10^{NO} = 8.042 \times 10^{NO} = 80.42\ cm^2$$

$$Ma = M + N\left(d - \frac{h}{2}\right) = 989.5 + 2171.5\left(72.5 - \frac{80}{2}\right) \times 10^{-2} = 1695.3^{KN \cdot m}$$

$$\chi = \frac{(0.87 - 0.72) fy \cdot As}{0.40 fcu \cdot b} = \frac{(0.87 - 0.72) \times 41000 \times 80.42}{0.40 \times 2500 \times 80} \fallingdotseq 7.2^{cm}$$

$$Z = d - \frac{\chi}{2} = 72.5 - \frac{7.2}{2} = 68.9^{cm} \leqq 0.95d = 0.95 \times 72.5 = 68.9^{cm} \quad OK$$

$$M_{RS} = 0.87 fyAsZ = 0.87 \times 41000 \times 80.42 \times 68.9 \times 10^{-5}$$
$$= 1976.4^{KNm} > Ma = 1695.3^{KNm}$$

$$M_{RC} = \{0.72 fyAs'(d - d') + 0.40 fcubxZ\}$$
$$= (0.72 \times 41000 \times 80.42 \times 65.0 + 0.40 \times 2500 \times 80 \times 7.2 \times 68.9) \times 10^{-5} = 1940.0^{KNm} > Ma \quad OK$$

$$Asn = Asn' = As - \frac{N}{0.87 fy} = 80.42 - \frac{2171.5 \times 10^3}{0.87 \times 41000} = 19.6\ cm^2$$
$$< Asu = Asu' = Y_{32} - 6^{NO} = 8.042 \times 6^{NO} = 48.25\ cm^2$$

$$P = \frac{Asu}{bd} \times 100 = \frac{48.25}{80 \times 72.5} \times 100 = 0.832\ \%$$

$$Vc = \frac{N}{bd} = \frac{282.8 \times 10^3}{80 \times 72.5} = 48.8\ N/cm^2$$

$$< Vca = 50.0 + 15.0\left(\frac{0.832 - 0.50}{0.50}\right) = 60.0\ N/cm^2 \quad OK$$

3) Calculation for footing —U.L.S.

a) middle fulcrum

$Mu.max = 2643.0^{KNm}$
$Su.max = 1215.3^{KN}$ } ··· from output of Computer

section $b = 80 + 2 \times 91.5 = 263.0^{cm}$

$h = 100^{cm}$ $d = 91.5$ $d' = 8.5$

$As = Y_{25} - 150^{ctc}(19^{NO}) = 4.909 \times 18^{NO} = 88.36\ cm^2$

$$P = \frac{88.36}{263.0 \times 91.5} \times 100 = 0.367\ \%$$

$$\chi = \frac{0.87 \times 41000 \times 88.36}{0.40 \times 2500 \times 263.0} = 12.0^{cm}$$

$$Z = 91.5 - \frac{12.0}{2} = 85.5^{cm} < 0.95 \times 91.5 \fallingdotseq 87.0^{cm}$$

$$M_{RS} = 0.87 \times 41000 \times 88.36 \times 85.5 \times 10^{-5}$$
$$= 2694.8^{KNm} > Mu = 2643.0^{KNm}$$

$$M_{RC} = 0.40 \times 2500 \times 263.0 \times 12.0 \times 85.5 \times 10^{-5}$$
$$= 2698.4^{KNm} > Mu = 2643.0^{KNm}\ OK$$

$$Vc = \frac{1215.3 \times 10^3}{263.0 \times 91.5} = 50.5\ N/cm^2$$

$$< Vca = \left\{ 35.0 + 15.0 \left(\frac{0.367 - 0.25}{0.25} \right) \right\} \times 2 = 84.0\ N/cm^2 \quad OK$$

b) middle span

$Mu.min = -1385.2^{KNm}$ ··· from output of Computer

section $b = 80 + 94.5 = 174.5^{cm}$

$h = 100^{cm}$ $d = 94.5$ $d' = 5.5$

$As = Y_{25} - 150^{ctc}(12^{NO}) = 4.909 \times 12^{NO} = 58.91\ cm^2$

$$\chi = \frac{0.87 \times 41000 \times 58.91}{0.40 \times 2500 \times 174.5} = 12.2^{cm}$$

$$Z = 94.5 - \frac{12.2}{2} = 88.5^{cm} < 0.95 \times 94.5 = 89.8^{cm}\ OK$$

$$M_{RS} = 0.87 \times 41000 \times 58.91 \times 88.5 \times 10^{-5}$$
$$= 1859.6^{KNm} > Mu = 1385.2^{KNm}$$

$$M_{RC} = 0.40 \times 2500 \times 174.5 \times 12.2 \times 88.5 \times 10^{-5}$$
$$= 1884.0^{KNm} > Mu = 1385.2^{KNm}\ OK$$

c) middle span ··· S.L.S (for check)

$Ms.max = 936.8^{KNm}$

$$\chi = \frac{0.80fy \cdot As}{\frac{1}{2} \times 0.5fcub} = \frac{0.80 \times 41000 \times 58.90}{\frac{1}{2} \times 0.50 \times 2500 \times 80} = 38.7^{cm}$$

$$Z = d - \frac{\chi}{3} = 86.5 - \frac{38.7}{3} = 73.6^{cm} < 0.95 \times 86.5 = 82.2^{cm}$$

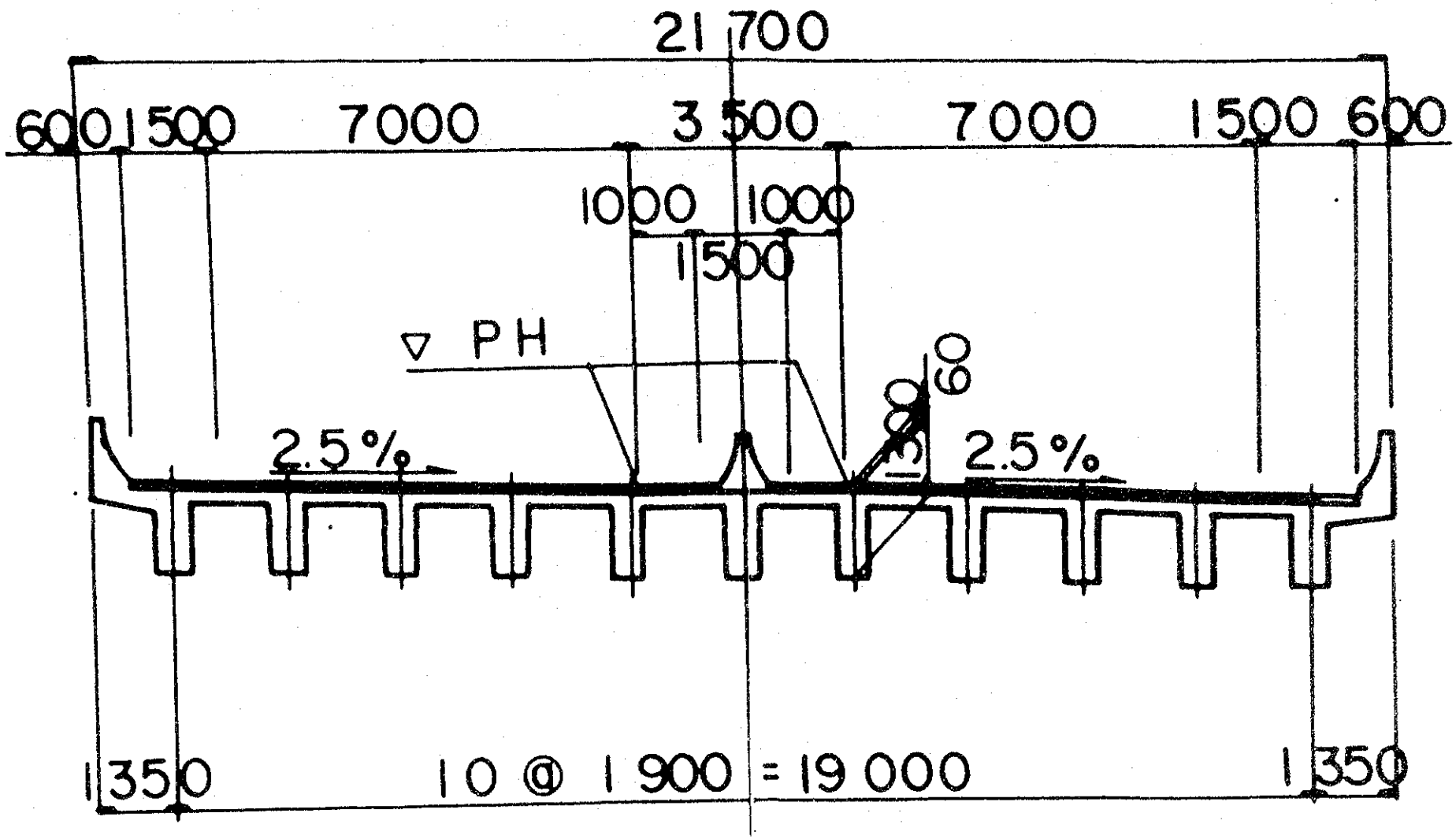
$$M_{RS} = 0.80fyAsZ = 0.80 \times 41000 \times 58.90 \times 73.6 \times 10^{-5}$$

$$= 1421.9^{KNm} > Ms = 936.8^{KNm}$$

$$M_{RC} = \frac{1}{2} \times 0.50fcubxZ = \frac{1}{2} \times 0.50 \times 2500 \times 80 \times 38.7 \times 73.6 \times 10^{-5}$$

$$= 1424.1^{KNm} > Mu = 936.8^{KNm}$$ OK

UHURU MONUMENT Ju. BRIDGE



CH6+676.190

CH6+714.190

LANGATA LOAD ℄

38 000

25 | 18 975 | 18 975 | 25

300 | 300

▽1724.047 (1724.025)

▽1724.376 (1724.362)

PIER ℄

▽1724.561 (1724.555)

9000 | 7000 | 9000

Left line

Right line

Weatherd

(5000) | 4000 | (5000)

(3500)(3000)

710

(1500)

(2000)(3250) (7.000) (6500) (7500) (1500)(3250)(2000)

(34 500)

A1 P A2

PROFILE SCALE 1:300

2-2

1718.6

1717.5

1717.4

1717.1

1716.7

1715.8

1715.9

1716

1715.6

1714.7

1717.5

1:1.5

0+200

6+700

R=2000

2000 | 3250 | 1500 | 7000

8 500

6.500

4000 | 3500 | 7500 | 1500

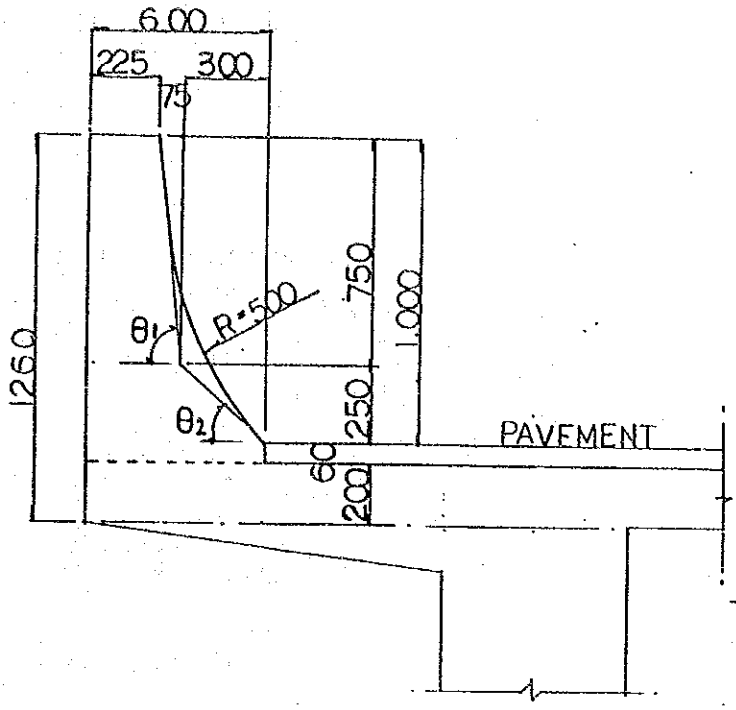
34 500

9 000

3250 | 1500

SHAPE OF PARAPET OF MAIN ROAD

1) FOR VERGE



Section arer

$A = 0.60 \times 1.06 - \frac{1}{2} \times 0.075 \times 0.75$

$- \frac{0.75 + 1.00}{2} \times 0.30 + ※ 0.006$

$= 0.352\ m^2$

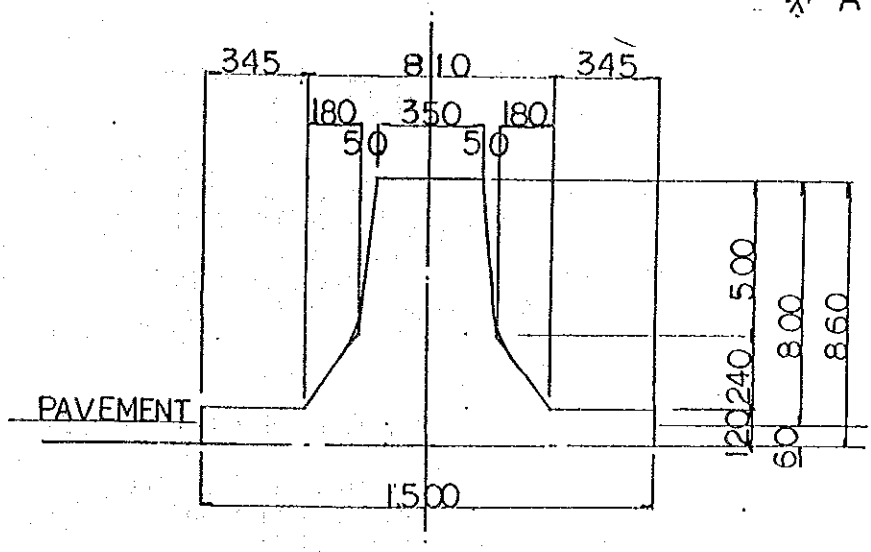
$\theta_1 = \tan^{-1} \frac{0.750}{0.075} = 84^\circ 17' 22''$

$- \theta_2 = \tan^{-1} \frac{0.250}{0.300} = 39^\circ 48' 20''$

$\theta = \fallingdotseq 44^\circ 29'$

$TL = R \cdot \tan \frac{\theta}{2} = 0.205\ m$

2) FOR CENTRAL RESERVE.



※ $A = 0.205 \times 0.50 - \pi \times 0.50^2 \times \frac{44^\circ 29'}{360^\circ}$

$= 0.006\ m^2$

Section arer

$A = \frac{0.35 + 0.45}{2} \times 0.50 + \frac{0.45 + 0.81}{2} \times 0.24 + 1.50 \times 0.12$

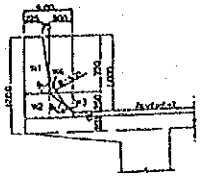
$= 0.532\ m^2$

2. LOAD

2. 1 DEAD LOAD

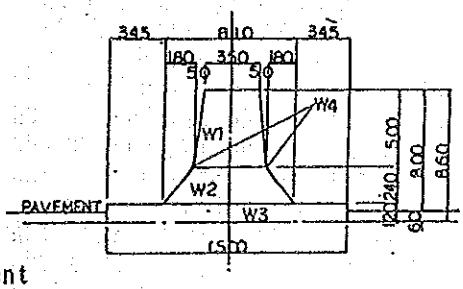
Note Input data : unit=P',W' t, t/m
unit=P,W KN=P',W'*9.8m/s2

1) Parapet for verge



W1'=1/2*(0.225+0.30)*0.75*2.4=0.473t/m
W2'=0.3*0.31*2.4 =0.223
W3'=1/2*(0.06+0.31)*0.30*2.4 =0.133
W4'=0.006*2.4 =0.014
ΣW'=0.843t/m
W=0.843*9.8=8.26KN/m

2) Parapet for centralreserve



W1'=1/2*(0.350+0.45)*0.50*2.4=0.480t/m
W2'=1/2*(0.45+0.81)*0.24*2.4 =0.363
W3'=1.5*0.12*2.4 =0.432
W4'=0.0007*2*2.4 =0.003
ΣW'=1.278t/m
W=1.278*9.8=12.52KN/m

3) Pavment

W=0.06*2.3*9.8=1.35KN/m2 W'=0.06*2.3=0.138t/m2

4) Main girder

end girder
W1'=2.3*0.20*2.4 =1.104t/m
W2'=1/2*1.05*0.15*2.4 =0.189
W3'=0.6*1.10*2.4 =1.584
ΣW'=2.877t/m
W=2.877*9.8=28.19KN/m

Middle gider W=(1.9*0.2+1.1*0.6)*2.4*9.8=24.46KN/m
※ W'=24.46/9.8=2.496t/m

6) Cross girder

End cross girder and sopportinggirder
P1=0.6*0.95*1.325*2.4*9.8=17.76KN
※ W'=17.76/9.8=1.813t
P2=0.35*0.95*1.325*2.4*9.8=10.36KN
※ W'=10.36/9.8=1.057t

2. 2 LIVE LOAD

1) HA 1 (center of span)

KEL main P1=38.10KN/m sub P2=12.70KN/m
※ P1'=38.10/9.8=3.887t/m P2'=12.70/9.8=1.296t/m
UDL main W1=9.52KN/m2 sub W2=3.17KN/m2
※ W1'=9.52/9.8=0.972t/m2 W2'=3.17/9.8=0.324t/m2

2) HA 2 (middle supprting point)

KEL main P1=38.10KN/m sub P2=12.70KN/m
※ P1'=38.10/9.8=3.887t/m P2'=12.70/9.8=1.296t/m
UDL main W1=8.51KN/m2 sub W2=2.84KN/m2
※ W1'=8.51/9.8=0.868t/m2 W2'=2.84/9.8=0.289t/m2
L=18.975+18.975=37.95m
W=151*(1/L)^0.475=151*(1/37.95)^0.475=26.8KN/m
W=26.8/3.15m=8.51KN/m2

3) H B 1 (center of span)

HB P0=75KN　　※ P0'=75/9.8=7.653t/m

KEL main P1=38.1XN/m　　sub P2=12.70KN/m

※ P1'=38.10/9.8=3.887t/m　P2'=12.70/9.8=1.296t/m

UDL main W1=10KN/m2　　sub W2=3.33KN/m2

※ W1'=10/9.8=1.02t/m2　W2'=3.33/9.8=0.340t/m2

3) H B 2 (middle supprting point)

HB P0=75KN　　※ P0'=75/9.8=7.653t/m

KEL main P1=38.1KN/m　　sub P2=12.70KN/m

※ P1'=38.10/9.8=3.887t/m　P2'=12.70/9.8=1.296t/m

UDL main W1=8.51KN/m2　　sub W2=2.84KN/m2

※ W1'=8.51/9.8=0.868t/m2　W2'=2.84/9.8=0.289t/m2

2. 3 COMBINATION OF LOADS

1) Base Loads

① Dead loads1 (deck loads)
② Dead loads2 (own weight)
③ HA1E (HA1 for side spans)
④ HA2
⑤ HB (cosentration loads span L=6m)
⑥ HB (cosentration loads span L=11m)
⑦ HB (cosentration loads span L=16m)
⑧ HB (cosentration loads span L=21m)
⑨ HB (cosentration loads span L=26m)
⑩ HB1 (HB1 distributed loads for side spans)
⑪ HB2 (HB1 distributed loads)

2) Combination Loads

⑫ HB1 ⑤+⑩
⑬ HB1 ⑥+⑩
⑭ HB1 ⑦+⑩
⑮ HB1 ⑧+⑩
⑯ HB1 ⑨+⑩
⑰ HB2 ⑤+⑪
⑱ HB2 ⑥+⑪
⑲ HB2 ⑦+⑪
⑳ HB2 ⑧+⑪
21 HB2 ⑨+⑪

3) Pick up Cases

(1) ⑫, ⑬, ⑭, ⑮, ⑯
(2) ⑰, ⑱, ⑲, ⑳, 21
(3) ③, (1)
(4) ④, (2)

3. EFFECTIVE WIDTH AND MODULAS

3. 1 EFFECTIVE WIDTH

2) Main girder

be=bw+l/5

be : effective width for flanges

l : length of moment zero

0.7*Ls or 0.85*Ls'

Ls : spans for connection girders of middle spans

Ls' : spans for connection girders of end spans

end spans

be=0.60+0.85*18.925/5=3.817m＞b=1.90m(2.30m)

2) Cross girder

end cross girder

λ1=l/8+bs=18.925*0.8/8+0=1.893m

spporting cross girder

λ2=l/8+bs=(18.925*2)*0.2/8+0=0.946m

middle cross girder

λ3=(n-1)*(lb+lw)+bs=(11-1)/6*(1.9+0.60)+0=4.167m

3．2　MODULAS

UHURU

Main girder

	B	H	A	Y	A*Y	A*y^2	Ic
End girder①	230	20	4600	10	46000	460000	153333
middle gir①'	190	20	3800	10	38000	380000	126667
②	60	110	6600	75	495000	37125000	6655000
End girderΣ			11200		541000	37585000	6808333
middle girΣ			10400		533000	37505000	6781667

$$IY=\Sigma Ic+\Sigma A*Y^2-\Sigma A*(\Sigma A*Y/\Sigma A)^2$$
$$= 18261101 = 0.183$$

$$IY=\Sigma Ic+\Sigma A*Y^2-\Sigma A*(\Sigma A*Y/\Sigma A)^2$$
$$= 16970417 = 0.170$$

Cross girder

	B	H	A	Y	A*Y	A*Y^2	Ic
End cross ①	249.3	20	4986	10	49860	498600	166200
Sopprting ①'	249.2	20	4984	10	49840	498400	166133
②	60	95	5700	67.5	384750	25970625	4286875
End cross Σ			10686		434610	26469225	4453075
Sopprting Σ			10684		434590	26469025	4453008

$$IY=\Sigma Ic+\Sigma A*Y^2-\Sigma A*(\Sigma A*Y/\Sigma A)^2$$
$$= 13246289 = 0.132$$

$$IY=\Sigma Ic+\Sigma A*Y^2-\Sigma A*(\Sigma A*Y/\Sigma A)^2$$
$$= 13244341 = 0.132$$

Cross girder

	B	H	A	Y	A*Y	A*Y^2	Ic
Middle cro①	868.4	20	17368	10	173680	1736800	578933
②	35	95	3325	67.5	224438	15149531	2500677
Middle croΣ			20693		398118	16886331	3079610

$$IY=\Sigma Ic+\Sigma A*Y^2-\Sigma A*(\Sigma A*Y/\Sigma A)^2$$
$$= 12306465 = 0.123$$

CONTROL DATA

LOADPIC POINTCUT LINER EDIT MEMBER DEFLECTION MOMENT SHEAR REACTION

STRUCTURE SIZE AND CONSTANTS

NUMBER OF JOINTS	99
NUMBER OF MEMBERS	140
NUMBER OF MAIN GIRDERS	11
NUMBER OF CROSS BEAMS	9
NUMBER OF LOAD POINTS	99
YOUNG'S MODULUS	2.800E+06
SHEAR MODULUS	1.217E+06

ALL UNITS ARE METER AND TON

** UHURU BRIDGE **

JOINT DATA

NO.	COORDINATE X (M)	COORDINATE Y (M)	SUPPORT FZ	ELASTIC SUPPORT KZ (T/M)
1	3.1034	9.5274	1	
2	2.5528	7.6229	1	
3	2.0022	5.7182	1	
4	1.4515	3.8134	1	
5	0.9008	1.9084	1	
6	0.3500	0.0033	1	
7	-0.2008	-1.9020	1	
8	-0.7517	-3.8075	1	
9	-1.3026	-5.7131	1	
10	-1.8536	-7.6189	1	
11	-2.4046	-9.5248	1	
12	7.7639	9.5588		
13	7.2136	7.6557		
14	6.6634	5.7523		
15	6.1131	3.8488		
16	5.5627	1.9452		
17	5.0123	0.0413		
18	4.4619	-1.8626		
19	3.9114	-3.7668		
20	3.3609	-5.6711		
21	2.8103	-7.5755		
22	2.2596	-9.4801		
23	12.4244	9.5795		
24	11.8746	7.6776		
25	11.3247	5.7756		
26	10.7747	3.8734		
27	10.2248	1.9710		
28	9.6747	0.0685		
29	9.1247	-1.8342		
30	8.5746	-3.7370		
31	8.0244	-5.6400		
32	7.4742	-7.5431		
33	6.9240	-9.4464		
34	17.0850	9.5893		
35	16.5355	7.6887		
36	15.9860	5.7880		
37	15.4365	3.8871		
38	14.8869	1.9860		
39	14.3372	0.0848		
40	13.7875	-1.8165		
41	13.2376	-3.7181		
42	12.6880	-5.6197		
43	12.1382	-7.5216		
44	11.5883	-9.4235		
45	21.7456	9.5884	1	
46	21.1965	7.6890	1	
47	20.6474	5.7896	1	
48	20.0982	3.8899	1	
49	19.5490	1.9902	1	
50	18.9997	0.0902	1	

** UHURU BRIDGE **

JOINT DATA

NO.	COORDINATE X (M)	COORDINATE Y (M)	SUPPORT FZ	ELASTIC SUPPORT KZ (T/M)
51	18.4504	-1.8098	1	
52	17.9010	-3.7101	1	
53	17.3516	-5.6104	1	
54	16.8022	-7.5110	1	
55	16.2527	-9.4116	1	
56	26.4063	9.5766		
57	25.8576	7.6785		
58	25.3088	5.7803		
59	24.7600	3.8820		
60	24.2111	1.9835		
61	23.6622	0.0848		
62	23.1133	-1.8140		
63	22.5643	-3.7129		
64	22.0152	-5.6120		
65	21.4662	-7.5113		
66	20.9170	-9.4107		
67	31.0670	9.5540		
68	30.5186	7.6572		
69	29.9702	5.7602		
70	29.4217	3.8631		
71	28.8732	1.9659		
72	28.3247	0.0685		
73	27.7761	-1.8290		
74	27.2275	-3.7267		
75	26.6788	-5.6245		
76	26.1301	-7.5225		
77	25.5813	-9.4206		
78	35.7276	9.5206		
79	35.1796	7.6250		
80	34.6315	5.7293		
81	34.0834	3.8335		
82	33.5353	1.9375		
83	32.9871	0.0413		
84	32.4389	-1.8549		
85	31.8906	-3.7514		
86	31.3423	-5.6479		
87	30.7940	-7.5447		
88	30.2456	-9.4415		
89	40.3881	9.4764	1	
90	39.8405	7.5821	1	
91	39.2928	5.6876	1	
92	38.7450	3.7930	1	
93	38.1973	1.8982	1	
94	37.6494	0.0033	1	
95	37.1016	-1.8917	1	
96	36.5537	-3.7869	1	
97	36.0057	-5.6823	1	
98	35.4578	-7.5777	1	
99	34.9097	-9.4733	1	

** UHUKU BRIDGE **

SECTION NO.	L (M)	IY (M*4)	J (M*4)
GIRDER NO. 1			
1	37.285*	0.16300000	0.00000000
INPUT LENGTH	37.285	GIRDER LENGTH	37.285
		SPAN LENGTH (1)	18.642
		SPAN LENGTH (2)	18.643
GIRDER NO. 2			
1	37.288*	0.17000000	0.00000000
INPUT LENGTH	37.288	GIRDER LENGTH	37.288
		SPAN LENGTH (1)	18.644
		SPAN LENGTH (2)	18.644
GIRDER NO. 3			
1	37.291*	0.17000000	0.00000000
INPUT LENGTH	37.291	GIRDER LENGTH	37.291
		SPAN LENGTH (1)	18.645
		SPAN LENGTH (2)	18.646
GIRDER NO. 4			
1	37.294*	0.17000000	0.00000000
INPUT LENGTH	37.294	GIRDER LENGTH	37.294
		SPAN LENGTH (1)	18.647
		SPAN LENGTH (2)	18.647
GIRDER NO. 5			
1	37.297*	0.17000000	0.00000000
INPUT LENGTH	37.297	GIRDER LENGTH	37.297
		SPAN LENGTH (1)	18.648
		SPAN LENGTH (2)	18.649

** UHUKU BRIDGE **

SECTION NO.	L (M)	IY (M*4)	J (M*4)
GIRDER NO. 6			
1	37.300*	0.17000000	0.00000000
INPUT LENGTH	37.300	GIRDER LENGTH	37.300
		SPAN LENGTH (1)	18.650
		SPAN LENGTH (2)	18.650
GIRDER NO. 7			
1	37.303*	0.17000000	0.00000000
INPUT LENGTH	37.303	GIRDER LENGTH	37.303
		SPAN LENGTH (1)	18.651
		SPAN LENGTH (2)	18.651
GIRDER NO. 8			
1	37.306*	0.17000000	0.00000000
INPUT LENGTH	37.306	GIRDER LENGTH	37.306
		SPAN LENGTH (1)	18.653
		SPAN LENGTH (2)	18.653
GIRDER NO. 9			
1	37.309*	0.17000000	0.00000000
INPUT LENGTH	37.309	GIRDER LENGTH	37.309
		SPAN LENGTH (1)	18.655
		SPAN LENGTH (2)	18.654
GIRDER NO. 10			
1	37.312*	0.17000000	0.00000000
INPUT LENGTH	37.312	GIRDER LENGTH	37.312
		SPAN LENGTH (1)	18.656
		SPAN LENGTH (2)	18.656

SECTION NO.	L (M)	IY (M*4)	J (M*4)
GIRDER NO. 11			
1	37.315*	0.18300000	0.00000000
INPUT LENGTH	37.315	GIRDER LENGTH	37.315
		SPAN LENGTH (1)	18.658
		SPAN LENGTH (2)	18.657

CROSS BEAM DATA

		IY (M*4)	J (M*4)	IY (M*4)	J (M*4)	IY (M*4)	J (M*4)
SB		0.13300000	0.00000000	0.13300000	0.00000000		
PB	1	0.13300000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
CB		0.12300000	0.00000000				

** UHURU BRIDGE **

MEMBER DATA

NO.	A	B	L (M)	IY (M*4)	J (M*4)
1	1	12	4.6606	0.18300000	
2	12	23	4.6605	0.18300000	
3	23	34	4.6606	0.18300000	
4	34	45	4.6606	0.18300000	
5	45	56	4.6607	0.18300000	
6	56	67	4.6608	0.18300000	
7	67	78	4.6607	0.18300000	
8	78	89	4.6607	0.18300000	
9	2	13	4.6609	0.17000000	
10	13	24	4.6611	0.17000000	
11	24	35	4.6609	0.17000000	
12	35	46	4.6610	0.17000000	
13	46	57	4.6611	0.17000000	
14	57	68	4.6610	0.17000000	
15	68	79	4.6611	0.17000000	
16	79	90	4.6611	0.17000000	
17	3	14	4.6613	0.17000000	
18	14	25	4.6614	0.17000000	
19	25	36	4.6613	0.17000000	
20	36	47	4.6614	0.17000000	
21	47	58	4.6614	0.17000000	
22	58	69	4.6614	0.17000000	
23	69	80	4.6614	0.17000000	
24	80	91	4.6615	0.17000000	
25	4	15	4.6617	0.17000000	
26	15	26	4.6617	0.17000000	
27	26	37	4.6618	0.17000000	
28	37	48	4.6617	0.17000000	
29	48	59	4.6618	0.17000000	
30	59	70	4.6617	0.17000000	
31	70	81	4.6618	0.17000000	
32	81	92	4.6618	0.17000000	
33	5	16	4.6620	0.17000000	
34	16	27	4.6622	0.17000000	
35	27	38	4.6621	0.17000000	
36	38	49	4.6621	0.17000000	
37	49	60	4.6621	0.17000000	
38	60	71	4.6621	0.17000000	
39	71	82	4.6622	0.17000000	
40	82	93	4.6622	0.17000000	
41	6	17	4.6625	0.17000000	
42	17	28	4.6625	0.17000000	
43	28	39	4.6625	0.17000000	
44	39	50	4.6625	0.17000000	
45	50	61	4.6625	0.17000000	
46	61	72	4.6625	0.17000000	
47	72	83	4.6625	0.17000000	
48	83	94	4.6625	0.17000000	
49	7	18	4.6629	0.17000000	
50	18	29	4.6629	0.17000000	

** UHURU BRIDGE **

MEMBER DATA

NO.	A	B	L (M)	IY (M*4)	J (M*4)	AS (M*2)	R (M)
51	29	40	4.6628	0.17000000			
52	40	51	4.6629	0.17000000			
53	51	62	4.6629	0.17000000			
54	62	73	4.6628	0.17000000			
55	73	84	4.6629	0.17000000			
56	84	95	4.6628	0.17000000			
57	8	19	4.6633	0.17000000			
58	19	30	4.6633	0.17000000			
59	30	41	4.6632	0.17000000			
60	41	52	4.6632	0.17000000			
61	52	63	4.6633	0.17000000			
62	63	74	4.6632	0.17000000			
63	74	85	4.6632	0.17000000			
64	85	96	4.6632	0.17000000			
65	9	20	4.6637	0.17000000			
66	20	31	4.6636	0.17000000			
67	31	42	4.6636	0.17000000			
68	42	53	4.6636	0.17000000			
69	53	64	4.6636	0.17000000			
70	64	75	4.6636	0.17000000			
71	75	86	4.6636	0.17000000			
72	86	97	4.6635	0.17000000			
73	10	21	4.6641	0.17000000			
74	21	32	4.6640	0.17000000			
75	32	43	4.6640	0.17000000			
76	43	54	4.6640	0.17000000			
77	54	65	4.6640	0.17000000			
78	65	76	4.6639	0.17000000			
79	76	87	4.6640	0.17000000			
80	87	98	4.6639	0.17000000			
81	11	22	4.6644	0.18300000			
82	22	33	4.6645	0.18300000			
83	33	44	4.6644	0.18300000			
84	44	55	4.6644	0.18300000			
85	55	66	4.6643	0.18300000			
86	66	77	4.6643	0.18300000			
87	77	88	4.6643	0.18300000			
88	88	99	4.6642	0.18300000			
89	1	2	1.9825	0.13300000			
90	2	3	1.9827	0.13300000			
91	3	4	1.9828	0.13300000			
92	4	5	1.9830	0.13300000			
93	5	6	1.9831	0.13300000			
94	6	7	1.9833	0.13300000			
95	7	8	1.9835	0.13300000			
96	8	9	1.9836	0.13300000			
97	9	10	1.9839	0.13300000			
98	10	11	1.9839	0.13300000			
99	23	24	1.9798	0.12300000			
100	24	25	1.9799	0.12300000			

MEMBER DATA

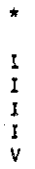
NO.	A	B	L (M)	IY (M**4)	J (M**4)	AS (M**2)	R (M)	CONNECTION A	CONNECTION B	ES	GS
101	25	26	1.9801	0.12300000							
102	26	27	1.9803	0.12300000							
103	27	28	1.9804	0.12300000							
104	28	29	1.9806	0.12300000							
105	29	30	1.9807	0.12300000							
106	30	31	1.9809	0.12300000							
107	31	32	1.9810	0.12300000							
108	32	33	1.9812	0.12300000							
109	45	46	1.9772	0.13300000							
110	46	47	1.9772	0.13300000							
111	47	48	1.9775	0.13300000							
112	48	49	1.9775	0.13300000							
113	49	50	1.9776	0.13300000							
114	50	51	1.9778	0.13300000							
115	51	52	1.9781	0.13300000							
116	52	53	1.9781	0.13300000							
117	53	54	1.9784	0.13300000							
118	54	55	1.9784	0.13300000							
119	67	68	1.9745	0.12300000							
120	68	69	1.9747	0.12300000							
121	69	70	1.9748	0.12300000							
122	70	71	1.9749	0.12300000							
123	71	72	1.9751	0.12300000							
124	72	73	1.9752	0.12300000							
125	73	74	1.9754	0.12300000							
126	74	75	1.9755	0.12300000							
127	75	76	1.9757	0.12300000							
128	76	77	1.9758	0.12300000							
129	89	90	1.9719	0.13300000							
130	90	91	1.9721	0.13300000							
131	91	92	1.9722	0.13300000							
132	92	93	1.9724	0.13300000							
133	93	94	1.9725	0.13300000							
134	94	95	1.9726	0.13300000							
135	95	96	1.9728	0.13300000							
136	96	97	1.9730	0.13300000							
137	97	98	1.9730	0.13300000							
138	98	99	1.9732	0.13300000							

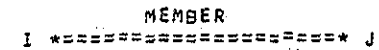
LOAD POINT DATA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99													

** REMARKS **

D-Z(Mm) : DEFLECTION

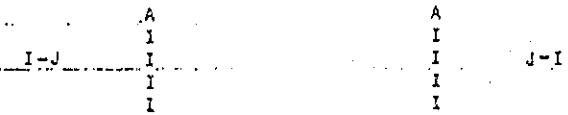




M-X(T,M) : TORSIONAL MOMENT

M-Y(T,M) : BENDING MOMENT

Q-Z(T) : SHEARING FORCE



RE-PZ(T) : REACTION

* INPUT DATA * ALL UNITS ARE METER AND TON.

NO. OF POINTS	99
NO. OF LOAD POINTS	99
NO. OF MAIN GIRDER	11
NO. OF PANNEL POINT	9
SKEW ANGLE	
MATERIAL	PC

LOAD POINT DIAGRAM

	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11
(1)	1	2	3	4	5	6	7	8	9	10	11
(2)	12	13	14	15	16	17	18	19	20	21	22
(3)	23	24	25	26	27	28	29	30	31	32	33
(4)	34	35	36	37	38	39	40	41	42	43	44
(5)	45	46	47	48	49	50	51	52	53	54	55
(6)	56	57	58	59	60	61	62	63	64	65	66
(7)	67	68	69	70	71	72	73	74	75	76	77
(8)	78	79	80	81	82	83	84	85	86	87	88
(9)	89	90	91	92	93	94	95	96	97	98	99

* LOAD

		*** 1-SPAN ***	2-SPAN ***	
SPAN LENGTH	(M)	1********	5**********	9
IMPACT		0.000	0.000 0.000	

* COORDINATE OF ROADWAY EDGE & DISTANCE FROM OUTSIDE GIRDER

	* LEFT SIDE *			* RIGHT SIDE *			* SEPARATOR *			* SKEW ANGLE *
	X (M)	Y (M)	L (M)	X (M)	Y (M)	L (M)	X (M)	Y (M)	W (T/M)	
1	3.3207	10.2791	0.7825	-2.6221	-10.2772	0.7832	0.3500	0.0033	0.000	73-24-28
2	7.9810	10.3101	0.7820	2.0423	-10.2320	0.7827	5.0123	0.0413	0.000	73-32-29
3	12.6414	10.3302	0.7814	6.7068	-10.1977	0.7821	9.6747	0.0685	0.000	73-40-29
4	17.3019	10.3395	0.7809	11.3713	-10.1744	0.7816	14.3372	0.0848	0.000	73-48-30
5	21.9624	10.3381	0.7804	16.0358	-10.1620	0.7811	18.9997	0.0902	0.000	73-56-31
6	26.6229	10.3256	0.7799	20.7003	-10.1605	0.7805	23.6622	0.0848	0.000	74-04-31
7	31.2834	10.3027	0.7793	25.3647	-10.1699	0.7800	28.3247	0.0685	0.000	74-12-32
8	35.9439	10.2688	0.7788	30.0291	-10.1903	0.7795	32.9871	0.0413	0.000	74-20-32
9	40.6043	10.2242	0.7784	34.6934	-10.2216	0.7789	37.6494	0.0033	0.000	74-20-32

* LINE DATA

	* NO. FROM	1 * --- DISTANCE (M)	* NO. FROM	2 * --- DISTANCE (M)	* NO. FROM	3 * --- DISTANCE (M)	* NO. FROM	4 * --- DISTANCE (M)
1	G1	-1.252	G11	1.252	G1	-0.783	G5	1.200
2	G1	-1.251	G11	1.251	G1	-0.782	G5	1.199
3	G1	-1.250	G11	1.250	G1	-0.782	G5	1.198
4	G1	-1.250	G11	1.250	G1	-0.781	G5	1.197
5	G1	-1.249	G11	1.249	G1	-0.780	G5	1.197
6	G1	-1.248	G11	1.248	G1	-0.780	G5	1.196
7	G1	-1.247	G11	1.247	G1	-0.779	G5	1.195
8	G1	-1.246	G11	1.246	G1	-0.779	G5	1.194
9	G1	-1.246	G11	1.246	G1	-0.779	G5	1.194

	* NO. FROM	5 * --- DISTANCE (M)	* NO. FROM	6 * --- DISTANCE (M)	* NO. FROM	7 * --- DISTANCE (M)	* NO. FROM	8 * --- DISTANCE (M)
1	G7	-1.200	G11	0.783	G1	-0.522	G1	0.522
2	G7	-1.199	G11	0.782	G1	-0.521	G1	0.521
3	G7	-1.198	G11	0.782	G1	-0.521	G1	0.521
4	G7	-1.197	G11	0.781	G1	-0.521	G1	0.521
5	G7	-1.197	G11	0.780	G1	-0.520	G1	0.520
6	G7	-1.196	G11	0.780	G1	-0.520	G1	0.520
7	G7	-1.195	G11	0.779	G1	-0.520	G1	0.520
8	G7	-1.194	G11	0.779	G1	-0.519	G1	0.519
9	G7	-1.194	G11	0.779	G1	-0.519	G1	0.519

	* NO. FROM	9 * --- DISTANCE (M)	* NO. FROM	10 * --- DISTANCE (M)	* NO. FROM	11 * --- DISTANCE (M)	* NO. FROM	12 * --- DISTANCE (M)
1	G2	-0.417	G2	0.626	G3	-1.096	G4	-0.157
2	G2	-0.417	G2	0.626	G3	-1.095	G4	-0.156
3	G2	-0.417	G2	0.625	G3	-1.094	G4	-0.156
4	G2	-0.417	G2	0.625	G3	-1.093	G4	-0.156
5	G2	-0.416	G2	0.624	G3	-1.093	G4	-0.156
6	G2	-0.416	G2	0.624	G3	-1.092	G4	-0.156
7	G2	-0.416	G2	0.624	G3	-1.091	G4	-0.156
8	G2	-0.415	G2	0.623	G3	-1.090	G4	-0.156
9	G2	-0.415	G2	0.623	G3	-1.090	G4	-0.156

	* NO. FROM	13 * --- DISTANCE (M)	* NO. FROM	14 * --- DISTANCE (M)
1	G6	-0.783	G6	0.783
2	G6	-0.782	G6	0.782
3	G6	-0.782	G6	0.782

* LINE DATA

4	G6	-0.781	G6	0.781
5	G6	-0.780	G6	0.780
6	G6	-0.780	G6	0.780
7	G6	-0.779	G6	0.779
8	G6	-0.779	G6	0.779
9	G6	-0.779	G6	0.779

* LOAD DATA

* POINT LOAD (T)

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G1	C1	0.907	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G1	C5	0.907	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G1	C9	0.907	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G2	C1	1.813	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G2	C5	1.813	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G2	C9	1.813	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G3	C1	1.813	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G3	C5	1.813	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G3	C9	1.813	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G4	C1	1.813	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G4	C5	1.813	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G4	C9	1.813	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G5	C1	1.813	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G5	C5	1.813	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G5	C9	1.813	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G6	C1	1.813	1.000

* LOAD DATA

* POINT LOAD (T)

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G6	C5	1.813	1.000
DEAD	2	G6	C9	1.813	1.000
DEAD	2	G7	C1	1.813	1.000
DEAD	2	G7	C5	1.813	1.000
DEAD	2	G7	C9	1.813	1.000
DEAD	2	G8	C1	1.813	1.000
DEAD	2	G8	C5	1.813	1.000
DEAD	2	G8	C9	1.813	1.000
DEAD	2	G9	C1	1.813	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G9	C9	1,813	1,000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G10	C1	1,813	1,000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G10	C5	1,813	1,000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G10	C9	1,813	1,000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G11	C1	0,907	1,000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G11	C5	0,907	1,000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G11	C9	0,907	1,000

* LOAD DATA

* POINT LOAD (T)

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G1	C3	0.529	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G1	C7	0.529	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G2	C3	1.057	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G2	C7	1.057	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G3	C3	1.057	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G3	C7	1.057	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G4	C3	1.057	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G4	C7	1.057	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G5	C3	1.057	1.000
* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G5	C7	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G6	C3	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G6	C7	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G7	C3	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G7	C7	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G8	C3	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G8	C7	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G9	C3	1.057	1.000

* LOAD DATA

* POINT LOAD (T)

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G9	C7	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G10	C3	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G10	C7	1.057	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G11	C3	0.529	1.000

* LOAD NAME ---	OUT NO.	-- PLACE ---		WEIGHT	KVAL OF SHEAR
DEAD	2	G11	C7	0.529	1.000

* LOAD DATA

* LINE LOAD ON DIRECTION OF GIRDER (T/M)

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR	* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	1	1.000	DEAD	1	1.000

	L1		L2
1(-)	-	1(-)	-
(R)	0.843	(R)	0.843
2(L)	0.843	2(L)	0.843
(R)	0.843	(R)	0.843
3(L)	0.843	3(L)	0.843
(R)	0.843	(R)	0.843
4(L)	0.843	4(L)	0.843
(R)	0.843	(R)	0.843
5(L)	0.843	5(L)	0.843
(R)	0.843	(R)	0.843
6(L)	0.843	6(L)	0.843
(R)	0.843	(R)	0.843
7(L)	0.843	7(L)	0.843
(R)	0.843	(R)	0.843
8(L)	0.843	8(L)	0.843
(R)	0.843	(R)	0.843
9(L)	0.843	9(L)	0.843
(-)	-	(-)	-

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR	* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	1	1.000	DEAD	2	1.000

	Go		G1
1(-)	-	1(-)	-
(R)	1.278	(R)	2.877
2(L)	1.278	2(L)	2.877
(R)	1.278	(R)	2.877
3(L)	1.278	3(L)	2.877
(R)	1.278	(R)	2.877
4(L)	1.278	4(L)	2.877
(R)	1.278	(R)	2.877
5(L)	1.278	5(L)	2.877
(R)	1.278	(R)	2.877
6(L)	1.278	6(L)	2.877
(R)	1.278	(R)	2.877
7(L)	1.278	7(L)	2.877
(R)	1.278	(R)	2.877
8(L)	1.278	8(L)	2.877
(R)	1.278	(R)	2.877
9(L)	1.278	9(L)	2.877
(-)	-	(-)	-

* LOAD DATA

* LINE LOAD ON DIRECTION OF GIRDER (T/M)

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR	* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	2	1.000	DEAD	2	1.000

G2		G3	
1(-)	-	1(-)	-
(R)	2.496	(R)	2.496
2(L)	2.496	2(L)	2.496
(R)	2.496	(R)	2.496
3(L)	2.496	3(L)	2.496
(R)	2.496	(R)	2.496
4(L)	2.496	4(L)	2.496
(R)	2.496	(R)	2.496
5(L)	2.496	5(L)	2.496
(R)	2.496	(R)	2.496
6(L)	2.496	6(L)	2.496
(R)	2.496	(R)	2.496
7(L)	2.496	7(L)	2.496
(R)	2.496	(R)	2.496
8(L)	2.496	8(L)	2.496
(R)	2.496	(R)	2.496
9(L)	2.496	9(L)	2.496
(-)	-	(-)	-

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR	* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	2	1.000	DEAD	2	1.000

G4		G5	
1(-)	-	1(-)	-
(R)	2.496	(R)	2.496
2(L)	2.496	2(L)	2.496
(R)	2.496	(R)	2.496
3(L)	2.496	3(L)	2.496
(R)	2.496	(R)	2.496
4(L)	2.496	4(L)	2.496
(R)	2.496	(R)	2.496
5(L)	2.496	5(L)	2.496
(R)	2.496	(R)	2.496
6(L)	2.496	6(L)	2.496
(R)	2.496	(R)	2.496
7(L)	2.496	7(L)	2.496
(R)	2.496	(R)	2.496
8(L)	2.496	8(L)	2.496
(R)	2.496	(R)	2.496
9(L)	2.496	9(L)	2.496
(-)	-	(-)	-

* LOAD DATA

* LINE LOAD ON DIRECTION OF GIRDER (T/M)

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	2	1.000

G6

1(-)	-
(R)	2.496
2(L)	2.496
(R)	2.496
3(L)	2.496
(R)	2.496
4(L)	2.496
(R)	2.496
5(L)	2.496
(R)	2.496
6(L)	2.496
(R)	2.496
7(L)	2.496
(R)	2.496
8(L)	2.496
(R)	2.496
9(L)	2.496
(-)	-

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	2	1.000

G7

1(-)	-
(R)	2.496
2(L)	2.496
(R)	2.496
3(L)	2.496
(R)	2.496
4(L)	2.496
(R)	2.496
5(L)	2.496
(R)	2.496
6(L)	2.496
(R)	2.496
7(L)	2.496
(R)	2.496
8(L)	2.496
(R)	2.496
9(L)	2.496
(-)	-

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	2	1.000

G8

1(-)	-
(R)	2.496
2(L)	2.496
(R)	2.496
3(L)	2.496
(R)	2.496
4(L)	2.496
(R)	2.496
5(L)	2.496
(R)	2.496
6(L)	2.496
(R)	2.496
7(L)	2.496
(R)	2.496
8(L)	2.496
(R)	2.496
9(L)	2.496
(-)	-

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	2	1.000

G9

1(-)	-
(R)	2.496
2(L)	2.496
(R)	2.496
3(L)	2.496
(R)	2.496
4(L)	2.496
(R)	2.496
5(L)	2.496
(R)	2.496
6(L)	2.496
(R)	2.496
7(L)	2.496
(R)	2.496
8(L)	2.496
(R)	2.496
9(L)	2.496
(-)	-

* LOAD DATA

* LINE LOAD ON DIRECTION OF GIRDER (T/M)

* LOAD NAME ---	OUT NO.	KVAL OF SHEAR	* LOAD NAME ---	OUT NO.	KVAL OF SHEAR
DEAD	2	1.000	DEAD	2	1.000
	G10			G11	
1(-)	-		1(-)	-	
(R)	2.496		(R)	2.877	
2(L)	2.496		2(L)	2.877	
(R)	2.496		(R)	2.877	
3(L)	2.496		3(L)	2.877	
(R)	2.496		(R)	2.877	
4(L)	2.496		4(L)	2.877	
(R)	2.496		(R)	2.877	
5(L)	2.496		5(L)	2.877	
(R)	2.496		(R)	2.877	
6(L)	2.496		6(L)	2.877	
(R)	2.496		(R)	2.877	
7(L)	2.496		7(L)	2.877	
(R)	2.496		(R)	2.877	
8(L)	2.496		8(L)	2.877	
(R)	2.496		(R)	2.877	
9(L)	2.496		9(L)	2.877	
(-)	-		(-)	-	

* LOAD DATA

* LINE LOAD ON CROSS BEAM (T/M)

* LOAD NAME ---		OUT NO.	-- PLACE --------			--- WEIGHT ----		WIDTH OF MAIN LOAD
HA1	LIVE	3	L3	L6	C1 - C5	3.887	1.296	6.300
* LOAD NAME ---		OUT NO.	-- PLACE --------			--- WEIGHT ----		WIDTH OF MAIN LOAD
HA2	LIVE	4	L3	L6	C1 - C9	3.887	1.296	6.300
* LOAD NAME ---		OUT NO.	-- PLACE --------			--- WEIGHT ----		KVAL OF SHEAR
HB1	DEAD	10	L11	L12	C3	3.887	3.887	1.000
* LOAD NAME ---		OUT NO.	-- PLACE --------			--- WEIGHT ----		KVAL OF SHEAR
HB1	DEAD	10	L12	L13	C3	1.296	1.296	1.000
* LOAD NAME ---		OUT NO.	-- PLACE --------			--- WEIGHT ----		KVAL OF SHEAR
HB1	DEAD	10	L14	L6	C3	1.296	1.296	1.000
* LOAD NAME ---		OUT NO.	-- PLACE --------			--- WEIGHT ----		KVAL OF SHEAR
HB2	DEAD	11	L11	L12	C3	3.887	3.887	1.000
* LOAD NAME ---		OUT NO.	-- PLACE --------			--- WEIGHT ----		KVAL OF SHEAR
HB2	DEAD	11	L12	L13	C3	1.296	1.296	1.000
* LOAD NAME ---		OUT NO.	-- PLACE --------			--- WEIGHT ----		KVAL OF SHEAR
HB2	DEAD	11	L14	L6	C3	1.296	1.296	1.000

* LOAD DATA

* UNIF LOAD (T/M*2)

* LOAD NAME ---		OUT NO.	KVAL OF SHEAR
DEAD		1	1.000

	L3	L4
1(-)	-	-
(R)	0.138	0.138
2(L)	0.138	0.138
(R)	0.138	0.138
3(L)	0.138	0.138
(R)	0.138	0.138
4(L)	0.138	0.138
(R)	0.138	0.138
5(L)	0.138	0.138
(R)	0.138	0.138
6(L)	0.138	0.138
(R)	0.138	0.138
7(L)	0.138	0.138
(R)	0.138	0.138
8(L)	0.138	0.138
(R)	0.138	0.138
9(L)	0.138	0.138
(-)	-	-

* LOAD NAME ---		OUT NO.	KVAL OF SHEAR
DEAD		1	1.000

	L5	L6
1(-)	-	-
(R)	0.138	0.138
2(L)	0.138	0.138
(R)	0.138	0.138
3(L)	0.138	0.138
(R)	0.138	0.138
4(L)	0.138	0.138
(R)	0.138	0.138
5(L)	0.138	0.138
(R)	0.138	0.138
6(L)	0.138	0.138
(R)	0.138	0.138
7(L)	0.138	0.138
(R)	0.138	0.138
8(L)	0.138	0.138
(R)	0.138	0.138
9(L)	0.138	0.138
(-)	-	-

* LOAD NAME ---		OUT NO.	WIDTH OF MAIN LOAD
HA1	LIVE	3	6.300

	L3	L6
1(-)	-	-
(R)	0.972	0.324
2(L)	0.972	0.324
(R)	0.972	0.324
3(L)	0.972	0.324
(R)	0.972	0.324
4(L)	0.972	0.324
(R)	0.972	0.324
5(L)	0.972	0.324
(R)	-	-
6(L)	-	-
(R)	-	-
7(L)	-	-
(R)	-	-
8(L)	-	-
(R)	-	-
9(L)	-	-
(-)	-	-

* LOAD NAME ---		OUT NO.	WIDTH OF MAIN LOAD
HA2	LIVE	4	6.300

	L3	L6
1(-)	-	-
(R)	0.868	0.289
2(L)	0.868	0.289
(R)	0.868	0.289
3(L)	0.868	0.289
(R)	0.868	0.289
4(L)	0.868	0.289
(R)	0.868	0.289
5(L)	0.868	0.289
(R)	0.868	0.289
6(L)	0.868	0.289
(R)	0.868	0.289
7(L)	0.868	0.289
(R)	0.868	0.289
8(L)	0.868	0.289
(R)	0.868	0.289
9(L)	0.868	0.289
(-)	-	-

* LOAD DATA

* UNIF LOAD (T/M*2)

* LOAD NAME ---		OUT NO.	KVAL OF SHEAR
HB1	DEAD	10	1.000

	L11	L12
1(-)	-	-
(R)	1.020	1.020
2(L)	1.020	1.020
(R)	1.020	1.020
3(L)	1.020	1.020
(R)	1.020	1.020
4(L)	1.020	1.020
(R)	1.020	1.020
5(L)	1.020	1.020
(R)	-	-
6(L)	-	-
(R)	-	-
7(L)	-	-
(R)	-	-
8(L)	-	-
(R)	-	-
9(L)	-	-
(-)	-	-

* LOAD NAME ---		OUT NO.	KVAL OF SHEAR
HB1	DEAD	10	1.000

	L12	L13
1(-)	-	-
(R)	0.340	0.340
2(L)	0.340	0.340
(R)	0.340	0.340
3(L)	0.340	0.340
(R)	0.340	0.340
4(L)	0.340	0.340
(R)	0.340	0.340
5(L)	0.340	0.340
(R)	-	-
6(L)	-	-
(R)	-	-
7(L)	-	-
(R)	-	-
8(L)	-	-
(R)	-	-
9(L)	-	-
(-)	-	-

* LOAD NAME ---		OUT NO.	KVAL OF SHEAR
HB1	DEAD	10	1.000

	L14	L6
1(-)	-	-
(R)	0.340	0.340
2(L)	0.340	0.340
(R)	0.340	0.340
3(L)	0.340	0.340
(R)	0.340	0.340
4(L)	0.340	0.340
(R)	0.340	0.340
5(L)	0.340	0.340
(R)	-	-
6(L)	-	-
(R)	-	-
7(L)	-	-
(R)	-	-
8(L)	-	-
(R)	-	-
9(L)	-	-
(-)	-	-

* LOAD NAME ---		OUT NO.	KVAL OF SHEAR
HB2	DEAD	11	1.000

	L11	L12
1(-)	-	-
(R)	0.868	0.868
2(L)	0.868	0.868
(R)	0.868	0.868
3(L)	0.868	0.868
(R)	0.868	0.868
4(L)	0.868	0.868
(R)	0.868	0.868
5(L)	0.868	0.868
(R)	0.868	0.868
6(L)	0.868	0.868
(R)	0.868	0.868
7(L)	0.868	0.868
(R)	0.868	0.868
8(L)	0.868	0.868
(R)	0.868	0.868
9(L)	0.868	0.868
(-)	-	-

* LOAD DATA

* UNIF LOAD (T/M*2)

* LOAD NAME ---		OUT NO.	KVAL OF SHEAR	* LOAD NAME ---		OUT NO.	KVAL OF SHEAR
HB2	DEAD	11	1.000	HB2	DEAD	11	1.000
		L12	L13			L14	L6
1(-)		-	-	1(-)		-	-
(R)		0.289	0.289	(R)		0.289	0.289
2(L)		0.289	0.289	2(L)		0.289	0.289
(R)		0.289	0.289	(R)		0.289	0.289
3(L)		0.289	0.289	3(L)		0.289	0.289
(R)		0.289	0.289	(R)		0.289	0.289
4(L)		0.289	0.289	4(L)		0.289	0.289
(R)		0.289	0.289	(R)		0.289	0.289
5(L)		0.289	0.289	5(L)		0.289	0.289
(R)		0.289	0.289	(R)		0.289	0.289
6(L)		0.289	0.289	6(L)		0.289	0.289
(R)		0.289	0.289	(R)		0.289	0.289
7(L)		0.289	0.289	7(L)		0.289	0.289
(R)		0.289	0.289	(R)		0.289	0.289
8(L)		0.289	0.289	8(L)		0.289	0.289
(R)		0.289	0.289	(R)		0.289	0.289
9(L)		0.289	0.289	9(L)		0.289	0.289
(-)		-	-	(-)		-	-

* LOAD DATA

* TRACK LOAD

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION		
(L= 6) LIVE	5	L7 C1 - C9	LEFT TO RIGHT	DIRECT LOAD	MAXOPT=1
JIKU	NO. 1	NO. 2	NO. 3	NO. 4	
UNIT	1- 1	1- 2	1- 3	1- 4	
WEIGHT (T)	7.653	7.653	7.653	7.653	
WIDTH (M)	1.800	6.000	1.800		

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION		
(L= 6) LIVE	5	L8 C1 - C9	LEFT TO RIGHT	DIRECT LOAD	MAXOPT=1
JIKU	NO. 1	NO. 2	NO. 3	NO. 4	
UNIT	1- 1	1- 2	1- 3	1- 4	
WEIGHT (T)	7.653	7.653	7.653	7.653	
WIDTH (M)	1.800	6.000	1.800		

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION		
(L= 6) LIVE	5	L9 C1 - C9	LEFT TO RIGHT	DIRECT LOAD	MAXOPT=1
JIKU	NO. 1	NO. 2	NO. 3	NO. 4	
UNIT	1- 1	1- 2	1- 3	1- 4	
WEIGHT (T)	7.653	7.653	7.653	7.653	
WIDTH (M)	1.800	6.000	1.800		

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION		
(L= 6) LIVE	5	L10 C1 - C9	LEFT TO RIGHT	DIRECT LOAD	MAXOPT=1

* LOAD DATA

* TRACK LOAD

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	6.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION	
(L=11) LIVE	6	L7 C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	11.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION	
(L=11) LIVE	6	L8 C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	11.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION	
(L=11) LIVE	6	L9 C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	11.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION	
(L=11) LIVE	6	L10 C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

* LOAD DATA

* TRACK LOAD

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	11.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION	
(L=16) LIVE	7	L7 C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	16.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION	
(L=16) LIVE	7	L8 C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	16.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION	
(L=16) LIVE	7	L9 C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	16.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION	
(L=16) LIVE	7	L10 C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

* LOAD DATA

* TRACK LOAD

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	16.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE --------	DIRECTION	
(L=21) LIVE	8 L7	C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	21.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE --------	DIRECTION	
(L=21) LIVE	8 L8	C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	21.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE --------	DIRECTION	
(L=21) LIVE	8 L9	C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	21.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE --------	DIRECTION	
(L=21) LIVE	8 L10	C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1

* LOAD DATA

* TRACK LOAD

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	21.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION		
(L=26) LIVE	9	L7 C1 - C9	LEFT TO RIGHT	DIRECT LOAD	MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	26.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION		
(L=26) LIVE	9	L8 C1 - C9	LEFT TO RIGHT	DIRECT LOAD	MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	26.000	1.800	

* LOAD NAME ---	OUT NO.	-- PLACE ---------	DIRECTION		
(L=26) LIVE	9	L9 C1 - C9	LEFT TO RIGHT	DIRECT LOAD	MAXOPT=1

JIKU	NO. 1	NO. 2	NO. 3	NO. 4
UNIT	1- 1	1- 2	1- 3	1- 4
WEIGHT (T)	7.653	7.653	7.653	7.653
WIDTH (M)	1.800	26.000	1.800	

* LOAD DATA

* TRACK LOAD

* LOAD NAME ---	OUT NO.	-- PLACE --------		DIRECTION	
(L=26) LIVE	9	L10	C1 - C9	LEFT TO RIGHT	DIRECT LOAD MAXOPT=1
JIKU	NO. 1	NO. 2	NO. 3	NO. 4	
UNIT	1- 1	1- 2	1- 3	1- 4	
WEIGHT (T)	7.653	7.653	7.653	7.653	
WIDTH (M)	1.800	26.000	1.800		

COMPOUND LOAD CASE = 10

LOAD NAME	NS	FC	(Z	C1	FC1)		CONTROL BIT (G: GRIDD, F: FRAMEZ, P: PICKUP TABLE FOR FRAMEZ)	
12 T(L= 6) + HB1	2	1.0000	G	5	1.0000	G	10	1.0000
13 T(L=11) + HB1	2	1.0000	G	6	1.0000	G	10	1.0000
14 T(L=16) + HB1	2	1.0000	G	7	1.0000	G	10	1.0000
15 T(L=21) + HB1	2	1.0000	G	8	1.0000	G	10	1.0000
16 T(L=26) + HB1	2	1.0000	G	9	1.0000	G	10	1.0000
17 T(L= 6) + HB2	2	1.0000	G	5	1.0000	G	11	1.0000
18 T(L=11) + HB2	2	1.0000	G	6	1.0000	G	11	1.0000
19 T(L=16) + HB2	2	1.0000	G	7	1.0000	G	11	1.0000
20 T(L=21) + HB2	2	1.0000	G	8	1.0000	G	11	1.0000
21 T(L=26) + HB2	2	1.0000	G	9	1.0000	G	11	1.0000

PICKUP TABLE CASE = 4

PICKUP TABLE NO. 1

12 13 14 15 16

PICKUP TABLE NO. 2

17 18 19 20 21

PICKUP TABLE NO. 3

3 12 13 14 15 16

PICKUP TABLE NO. 4

4 17 18 19 20 21

NO.	LOAD NAME		D-Z(MM) 1	D-Z(MM) 2	D-Z(MM) 3	D-Z(MM) 4	D-Z(MM) 5	D-Z(MM) 6	D-Z(MM) 7
1			0.000	0.000	0.000	0.000	0.000	0.000	0.000
2			0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	HA1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	HA2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	(L= 6)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	(L=11)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	(L=16)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	(L=21)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	(L=26)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	HB1		0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	HB2		0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	T(L= 6) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	T(L=11) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	T(L=16) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	T(L=21) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	T(L=26) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	T(L= 6) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	T(L=11) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	T(L=16) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	T(L=21) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	T(L=26) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000

NO.	LOAD NAME		D-Z(MM) 8	D-Z(MM) 9	D-Z(MM) 10	D-Z(MM) 11	D-Z(MM) 12	D-Z(MM) 13	D-Z(MM) 14
1			0.000	0.000	0.000	0.000	1.554	0.823	0.691
2			0.000	0.000	0.000	0.000	4.689	4.560	4.493
3	HA1	(+)	0.000	0.000	0.000	0.000	7.077	6.207	5.539
		(-)	0.000	0.000	0.000	0.000	-0.689	-0.345	-0.260
4	HA2	(+)	0.000	0.000	0.000	0.000	6.758	5.858	5.199
		(-)	0.000	0.000	0.000	0.000	-2.870	-2.293	-1.955
5	(L= 6)	(+)	0.000	0.000	0.000	0.000	9.946	7.143	4.223
		(-)	0.000	0.000	0.000	0.000	-3.227	-2.494	-1.822
6	(L=11)	(+)	0.000	0.000	0.000	0.000	6.778	5.034	2.712
		(-)	0.000	0.000	0.000	0.000	-2.089	-1.613	-1.163
7	(L=16)	(+)	0.000	0.000	0.000	0.000	6.643	4.913	2.683
		(-)	0.000	0.000	0.000	0.000	-1.941	-1.527	-1.089
8	(L=21)	(+)	0.000	0.000	0.000	0.000	6.643	4.913	2.683
		(-)	0.000	0.000	0.000	0.000	-1.941	-1.527	-1.089
9	(L=26)	(+)	0.000	0.000	0.000	0.000	6.643	4.913	2.683
		(-)	0.000	0.000	0.000	0.000	-1.941	-1.527	-1.089
10	HB1		0.000	0.000	0.000	0.000	1.510	2.166	2.867
11	HB2		0.000	0.000	0.000	0.000	0.843	1.380	1.975
12	T(L= 6) + HB1	(+)	0.000	0.000	0.000	0.000	11.457	9.310	7.090
		(-)	0.000	0.000	0.000	0.000	-1.717	-0.328	1.044
13	T(L=11) + HB1	(+)	0.000	0.000	0.000	0.000	8.288	7.200	5.578
		(-)	0.000	0.000	0.000	0.000	-0.579	0.553	1.704
14	T(L=16) + HB1	(+)	0.000	0.000	0.000	0.000	8.154	7.080	5.549
		(-)	0.000	0.000	0.000	0.000	-0.430	0.639	1.778
15	T(L=21) + HB1	(+)	0.000	0.000	0.000	0.000	8.154	7.080	5.549
		(-)	0.000	0.000	0.000	0.000	-0.430	0.639	1.778
16	T(L=26) + HB1	(+)	0.000	0.000	0.000	0.000	8.154	7.080	5.549
		(-)	0.000	0.000	0.000	0.000	-0.430	0.639	1.778
17	T(L= 6) + HB2	(+)	0.000	0.000	0.000	0.000	10.790	8.524	6.198
		(-)	0.000	0.000	0.000	0.000	-2.384	-1.114	0.153
18	T(L=11) + HB2	(+)	0.000	0.000	0.000	0.000	7.621	6.414	4.687
		(-)	0.000	0.000	0.000	0.000	-1.246	-0.233	0.812
19	T(L=16) + HB2	(+)	0.000	0.000	0.000	0.000	7.487	6.294	4.658
		(-)	0.000	0.000	0.000	0.000	-1.097	-0.147	0.886
20	T(L=21) + HB2	(+)	0.000	0.000	0.000	0.000	7.487	6.294	4.658
		(-)	0.000	0.000	0.000	0.000	-1.097	-0.147	0.886
21	T(L=26) + HB2	(+)	0.000	0.000	0.000	0.000	7.487	6.294	4.658
		(-)	0.000	0.000	0.000	0.000	-1.097	-0.147	0.886

NO.	LOAD NAME		D-Z(MM) 15	D-Z(MM) 16	D-Z(MM) 17	D-Z(MM) 18	D-Z(MM) 19	D-Z(MM) 20	D-Z(MM) 21
1			0.613	0.632	0.868	0.633	0.619	0.699	0.833
2			4.463	4.463	4.449	4.492	4.497	4.532	4.605
3	HA1	(+)	5.318	5.382	5.371	5.389	5.356	5.581	6.254
		(-)	-0.233	-0.195	-0.202	-0.197	-0.235	-0.261	-0.345
4	HA2	(+)	4.970	4.998	4.962	5.005	5.006	5.238	5.902
		(-)	-1.731	-1.690	-1.686	-1.690	-1.741	-1.961	-2.297
5	(L= 6)	(+)	2.218	0.939	0.364	0.201	0.195	0.254	0.283
		(-)	-1.185	-0.653	-0.440	-0.432	-0.431	-0.430	-0.373
6	(L=11)	(+)	1.367	0.577	0.231	0.133	0.125	0.157	0.172
		(-)	-0.755	-0.411	-0.282	-0.273	-0.268	-0.263	-0.226
7	(L=16)	(+)	1.365	0.581	0.231	0.128	0.118	0.150	0.167
		(-)	-0.710	-0.400	-0.292	-0.279	-0.272	-0.263	-0.226
8	(L=21)	(+)	1.365	0.581	0.231	0.128	0.118	0.150	0.167
		(-)	-0.710	-0.408	-0.298	-0.281	-0.273	-0.263	-0.226
9	(L=26)	(+)	1.365	0.581	0.231	0.128	0.118	0.150	0.167
		(-)	-0.710	-0.402	-0.278	-0.272	-0.272	-0.263	-0.226
10	HB1		2.942	2.774	2.519	2.442	2.340	2.264	2.198
11	HB2		2.003	1.824	1.596	1.545	1.481	1.441	1.410
12	T(L= 6) + HB1	(+)	5.160	3.714	2.882	2.642	2.535	2.517	2.481
		(-)	1.757	2.122	2.078	2.010	1.908	1.834	1.825
13	T(L=11) + HB1	(+)	4.308	3.352	2.749	2.574	2.465	2.420	2.370
		(-)	2.187	2.363	2.236	2.169	2.072	2.000	1.972
14	T(L=16) + HB1	(+)	4.307	3.355	2.750	2.570	2.458	2.414	2.366
		(-)	2.231	2.374	2.227	2.162	2.068	2.000	1.973
15	T(L=21) + HB1	(+)	4.307	3.355	2.750	2.570	2.458	2.414	2.366
		(-)	2.231	2.366	2.220	2.160	2.067	2.000	1.973
16	T(L=26) + HB1	(+)	4.307	3.355	2.750	2.570	2.458	2.414	2.366
		(-)	2.231	2.372	2.240	2.170	2.068	2.000	1.973
17	T(L= 6) + HB2	(+)	4.221	2.764	1.960	1.746	1.676	1.695	1.693
		(-)	0.817	1.172	1.156	1.113	1.049	1.012	1.037
18	T(L=11) + HB2	(+)	3.369	2.402	1.826	1.678	1.606	1.598	1.582
		(-)	1.247	1.413	1.314	1.272	1.213	1.178	1.184
19	T(L=16) + HB2	(+)	3.368	2.405	1.827	1.673	1.599	1.592	1.577
		(-)	1.292	1.424	1.304	1.266	1.209	1.178	1.184
20	T(L=21) + HB2	(+)	3.368	2.405	1.827	1.673	1.599	1.592	1.577
		(-)	1.292	1.416	1.297	1.264	1.208	1.178	1.184
21	T(L=26) + HB2	(+)	3.368	2.405	1.827	1.673	1.599	1.592	1.577
		(-)	1.292	1.422	1.317	1.274	1.209	1.178	1.184

NO.	LOAD NAME		D-Z(MM) 22	D-Z(MM) 23	D-Z(MM) 24	D-Z(MM) 25	D-Z(MM) 26	D-Z(MM) 27	D-Z(MM) 28
1			1.585	1.309	0.913	0.670	0.588	0.608	0.639
2			4.776	4.321	4.255	4.204	4.173	4.159	4.158
3	HA1	(+)	7.168	8.072	6.993	6.028	5.735	5.762	5.796
		(-)	-0.687	-0.837	-0.427	-0.319	-0.284	-0.230	-0.232
4	HA2	(+)	6.841	7.761	6.628	5.677	5.375	5.358	5.354
		(-)	-2.871	-4.148	-3.377	-2.877	-2.576	-2.529	-2.533
5	(L= 6)	(+)	0.294	10.824	7.786	4.992	2.738	1.159	0.473
		(-)	-0.295	-4.994	-3.786	-2.648	-1.658	-0.872	-0.554
6	(L=11)	(+)	0.179	6.698	4.809	3.073	1.678	0.715	0.297
		(-)	-0.179	-3.259	-2.475	-1.674	-1.031	-0.535	-0.352
7	(L=16)	(+)	0.176	6.698	4.809	3.073	1.676	0.716	0.295
		(-)	-0.177	-3.015	-2.249	-1.562	-0.977	-0.522	-0.361
8	(L=21)	(+)	0.176	6.698	4.809	3.073	1.676	0.716	0.295
		(-)	-0.177	-3.015	-2.249	-1.562	-0.977	-0.531	-0.365
9	(L=26)	(+)	0.176	6.698	4.809	3.073	1.676	0.716	0.295
		(-)	-0.177	-3.015	-2.249	-1.562	-0.977	-0.526	-0.345
10	HB1		2.155	1.845	2.566	3.118	3.321	3.225	3.016
11	HB2		1.400	0.942	1.477	1.880	2.007	1.906	1.733
12	T(L= 6) + HB1	(+)	2.449	12.670	10.351	8.110	6.059	4.384	3.489
		(-)	1.860	-3.149	-1.221	0.470	1.663	2.353	2.462
13	T(L=11) + HB1	(+)	2.334	8.544	7.375	6.191	4.999	3.940	3.313
		(-)	1.976	-1.413	0.091	1.445	2.290	2.689	2.664
14	T(L=16) + HB1	(+)	2.331	8.544	7.375	6.191	4.997	3.941	3.311
		(-)	1.979	-1.169	0.316	1.556	2.344	2.703	2.655
15	T(L=21) + HB1	(+)	2.331	8.544	7.375	6.191	4.997	3.941	3.311
		(-)	1.979	-1.169	0.316	1.556	2.344	2.694	2.651
16	T(L=26) + HB1	(+)	2.331	8.544	7.375	6.191	4.997	3.941	3.311
		(-)	1.979	-1.169	0.316	1.556	2.344	2.699	2.671
17	T(L= 6) + HB2	(+)	1.694	11.766	9.263	6.872	4.745	3.065	2.207
		(-)	1.105	-4.052	-2.309	-0.768	0.349	1.034	1.179
18	T(L=11) + HB2	(+)	1.578	7.641	6.286	4.953	3.685	2.621	2.030
		(-)	1.221	-2.316	-0.998	0.207	0.976	1.370	1.382
19	T(L=16) + HB2	(+)	1.576	7.641	6.286	4.953	3.683	2.622	2.029
		(-)	1.223	-2.072	-0.772	0.318	1.030	1.384	1.372
20	T(L=21) + HB2	(+)	1.576	7.641	6.286	4.953	3.683	2.622	2.029
		(-)	1.223	-2.072	-0.772	0.318	1.030	1.375	1.369
21	T(L=26) + HB2	(+)	1.576	7.641	6.286	4.953	3.683	2.622	2.029
		(-)	1.223	-2.072	-0.772	0.318	1.030	1.380	1.388

NO.	LOAD NAME		D-Z(MM) 29	D-Z(MM) 30	D-Z(MM) 31	D-Z(MM) 32	D-Z(MM) 33	D-Z(MM) 34	D-Z(MM) 35
1			0.609	0.592	0.676	0.921	1.320	0.595	0.335
2			4.168	4.191	4.229	4.286	4.356	1.826	1.793
3	HA1	(+)	5.773	5.756	6.055	7.019	8.092	5.642	4.889
		(-)	-0.232	-0.286	-0.320	-0.425	-0.827	-0.577	-0.303
4	HA2	(+)	5.369	5.395	5.702	6.651	7.775	5.483	4.660
		(-)	-2.534	-2.586	-2.887	-3.383	-4.142	-3.998	-3.319
5	(L= 6)	(+)	0.283	0.279	0.348	0.375	0.376	7.854	5.667
		(-)	-0.524	-0.526	-0.531	-0.468	-0.377	-5.279	-3.879
6	(L=11)	(+)	0.182	0.173	0.214	0.228	0.228	5.158	3.855
		(-)	-0.328	-0.324	-0.324	-0.283	-0.228	-3.460	-2.540
7	(L=16)	(+)	0.173	0.165	0.206	0.222	0.225	4.919	3.735
		(-)	-0.335	-0.327	-0.324	-0.282	-0.225	-3.278	-2.433
8	(L=21)	(+)	0.173	0.165	0.206	0.222	0.225	4.919	3.735
		(-)	-0.337	-0.329	-0.324	-0.282	-0.225	-3.278	-2.433
9	(L=26)	(+)	0.173	0.165	0.206	0.222	0.225	4.919	3.735
		(-)	-0.327	-0.327	-0.324	-0.282	-0.225	-3.278	-2.433
10	HB1		2.839	2.714	2.620	2.540	2.464	1.290	1.763
11	HB2		1.606	1.531	1.487	1.454	1.424	0.508	0.772
12	T(L= 6) + HB1	(+)	3.122	2.992	2.968	2.914	2.840	9.143	7.431
		(-)	2.315	2.188	2.088	2.072	2.088	-3.989	-2.116
13	T(L=11) + HB1	(+)	3.021	2.886	2.834	2.767	2.692	6.448	5.619
		(-)	2.511	2.390	2.296	2.256	2.236	-2.170	-0.777
14	T(L=16) + HB1	(+)	3.012	2.879	2.826	2.761	2.689	6.209	5.499
		(-)	2.504	2.386	2.296	2.257	2.239	-1.989	-0.669
15	T(L=21) + HB1	(+)	3.012	2.879	2.826	2.761	2.689	6.209	5.499
		(-)	2.502	2.384	2.296	2.257	2.239	-1.989	-0.669
16	T(L=26) + HB1	(+)	3.012	2.879	2.826	2.761	2.689	6.209	5.499
		(-)	2.512	2.386	2.296	2.257	2.239	-1.989	-0.669
17	T(L= 6) + HB2	(+)	1.889	1.810	1.835	1.829	1.800	8.362	6.439
		(-)	1.082	1.006	0.955	0.986	1.048	-4.771	-3.107
18	T(L=11) + HB2	(+)	1.788	1.704	1.701	1.682	1.652	5.666	4.627
		(-)	1.277	1.207	1.163	1.170	1.196	-2.952	-1.768
19	T(L=16) + HB2	(+)	1.779	1.696	1.693	1.676	1.649	5.427	4.507
		(-)	1.271	1.204	1.163	1.171	1.199	-2.770	-1.661
20	T(L=21) + HB2	(+)	1.779	1.696	1.693	1.676	1.649	5.427	4.507
		(-)	1.269	1.202	1.163	1.171	1.199	-2.770	-1.661
21	T(L=26) + HB2	(+)	1.779	1.696	1.693	1.676	1.649	5.427	4.507
		(-)	1.279	1.204	1.163	1.171	1.199	-2.770	-1.661

NO.	LOAD NAME		D-Z(MM) 36	D-Z(MM) 37	D-Z(MM) 38	D-Z(MM) 39	D-Z(MM) 40	D-Z(MM) 41	D-Z(MM) 42
1			0.275	0.244	0.249	0.331	0.250	0.245	0.278
2			1.780	1.770	1.756	1.763	1.759	1.773	1.791
3	HA1	(+)	4.339	4.129	4.120	4.155	4.145	4.141	4.378
		(-)	-0.222	-0.193	-0.146	-0.136	-0.148	-0.194	-0.224
4	HA2	(+)	4.104	3.889	3.847	3.856	3.872	3.901	4.141
		(-)	-2.887	-2.670	-2.623	-2.631	-2.641	-2.680	-2.913
5	(L= 6)	(+)	3.501	1.918	0.839	0.375	0.263	0.261	0.307
		(-)	-2.543	-1.500	-0.731	-0.407	-0.356	-0.359	-0.378
6	(L=11)	(+)	2.178	1.162	0.510	0.229	0.160	0.160	0.187
		(-)	-1.586	-0.912	-0.445	-0.252	-0.218	-0.218	-0.228
7	(L=16)	(+)	2.130	1.158	0.508	0.225	0.156	0.155	0.182
		(-)	-1.520	-0.887	-0.435	-0.255	-0.220	-0.218	-0.228
8	(L=21)	(+)	2.130	1.158	0.508	0.225	0.156	0.155	0.182
		(-)	-1.520	-0.887	-0.435	-0.256	-0.221	-0.218	-0.228
9	(L=26)	(+)	2.130	1.158	0.508	0.225	0.156	0.155	0.182
		(-)	-1.520	-0.887	-0.435	-0.248	-0.218	-0.218	-0.228
10	HB1		2.260	2.345	2.222	2.068	1.991	1.913	1.848
11	HB2		1.036	1.074	0.996	0.903	0.858	0.825	0.801
12	T(L= 6) + HB1	(+)	5.762	4.262	3.061	2.443	2.254	2.174	2.156
		(-)	-0.283	0.845	1.491	1.660	1.634	1.554	1.471
13	T(L=11) + HB1	(+)	4.439	3.506	2.732	2.297	2.151	2.073	2.035
		(-)	0.674	1.433	1.777	1.815	1.772	1.695	1.620
14	T(L=16) + HB1	(+)	4.390	3.503	2.730	2.292	2.146	2.068	2.030
		(-)	0.740	1.457	1.787	1.813	1.770	1.695	1.621
15	T(L=21) + HB1	(+)	4.390	3.503	2.730	2.292	2.146	2.068	2.030
		(-)	0.740	1.457	1.787	1.812	1.769	1.694	1.621
16	T(L=26) + HB1	(+)	4.390	3.503	2.730	2.292	2.146	2.068	2.030
		(-)	0.740	1.457	1.787	1.819	1.773	1.695	1.621
17	T(L= 6) + HB2	(+)	4.538	2.991	1.835	1.278	1.121	1.086	1.108
		(-)	-1.507	-0.426	0.265	0.496	0.502	0.465	0.423
18	T(L=11) + HB2	(+)	3.215	2.235	1.506	1.132	1.018	0.984	0.988
		(-)	-0.550	0.162	0.551	0.651	0.640	0.607	0.573
19	T(L=16) + HB2	(+)	3.167	2.232	1.504	1.128	1.014	0.980	0.983
		(-)	-0.484	0.187	0.561	0.648	0.638	0.607	0.573
20	T(L=21) + HB2	(+)	3.167	2.232	1.504	1.128	1.014	0.980	0.983
		(-)	-0.484	0.187	0.561	0.647	0.637	0.606	0.573
21	T(L=26) + HB2	(+)	3.167	2.232	1.504	1.128	1.014	0.980	0.983
		(-)	-0.484	0.187	0.561	0.655	0.641	0.607	0.573

NO.	LOAD NAME		D-Z(MM) 43	D-Z(MM) 44	D-Z(MM) 45	D-Z(MM) 46	D-Z(MM) 47	D-Z(MM) 48	D-Z(MM) 49
1			0.340	0.598	0.000	0.000	0.000	0.000	0.000
2			1.806	1.830	0.000	0.000	0.000	0.000	0.000
3	HA1	(+)	4.913	5.665	0.000	0.000	0.000	0.000	0.000
		(-)	-0.303	-0.572	0.000	0.000	0.000	0.000	0.000
4	HA2	(+)	4.682	5.503	0.000	0.000	0.000	0.000	0.000
		(-)	-3.335	-4.019	0.000	0.000	0.000	0.000	0.000
5	(L= 6)	(+)	0.310	0.295	0.000	0.000	0.000	0.000	0.000
		(-)	-0.345	-0.294	0.000	0.000	0.000	0.000	0.000
6	(L=11)	(+)	0.188	0.178	0.000	0.000	0.000	0.000	0.000
		(-)	-0.208	-0.178	0.000	0.000	0.000	0.000	0.000
7	(L=16)	(+)	0.184	0.176	0.000	0.000	0.000	0.000	0.000
		(-)	-0.207	-0.175	0.000	0.000	0.000	0.000	0.000
8	(L=21)	(+)	0.184	0.176	0.000	0.000	0.000	0.000	0.000
		(-)	-0.207	-0.175	0.000	0.000	0.000	0.000	0.000
9	(L=26)	(+)	0.184	0.176	0.000	0.000	0.000	0.000	0.000
		(-)	-0.207	-0.175	0.000	0.000	0.000	0.000	0.000
10	HB1		1.780	1.733	0.000	0.000	0.000	0.000	0.000
11	HB2		0.776	0.757	0.000	0.000	0.000	0.000	0.000
12	T(L= 6) + HB1	(+)	2.090	2.028	0.000	0.000	0.000	0.000	0.000
		(-)	1.435	1.439	0.000	0.000	0.000	0.000	0.000
13	T(L=11) + HB1	(+)	1.968	1.911	0.000	0.000	0.000	0.000	0.000
		(-)	1.572	1.555	0.000	0.000	0.000	0.000	0.000
14	T(L=16) + HB1	(+)	1.964	1.908	0.000	0.000	0.000	0.000	0.000
		(-)	1.574	1.558	0.000	0.000	0.000	0.000	0.000
15	T(L=21) + HB1	(+)	1.964	1.908	0.000	0.000	0.000	0.000	0.000
		(-)	1.574	1.558	0.000	0.000	0.000	0.000	0.000
16	T(L=26) + HB1	(+)	1.964	1.908	0.000	0.000	0.000	0.000	0.000
		(-)	1.574	1.558	0.000	0.000	0.000	0.000	0.000
17	T(L= 6) + HB2	(+)	1.086	1.052	0.000	0.000	0.000	0.000	0.000
		(-)	0.431	0.463	0.000	0.000	0.000	0.000	0.000
18	T(L=11) + HB2	(+)	0.964	0.935	0.000	0.000	0.000	0.000	0.000
		(-)	0.568	0.579	0.000	0.000	0.000	0.000	0.000
19	T(L=16) + HB2	(+)	0.960	0.933	0.000	0.000	0.000	0.000	0.000
		(-)	0.570	0.582	0.000	0.000	0.000	0.000	0.000
20	T(L=21) + HB2	(+)	0.960	0.933	0.000	0.000	0.000	0.000	0.000
		(-)	0.570	0.582	0.000	0.000	0.000	0.000	0.000
21	T(L=26) + HB2	(+)	0.960	0.933	0.000	0.000	0.000	0.000	0.000
		(-)	0.570	0.582	0.000	0.000	0.000	0.000	0.000

NO.	LOAD NAME		D-Z(MM) 50	D-Z(MM) 51	D-Z(MM) 52	D-Z(MM) 53	D-Z(MM) 54	D-Z(MM) 55	D-Z(MM) 56
1			0.000	0.000	0.000	0.000	0.000	0.000	0.596
2			0.000	0.000	0.000	0.000	0.000	0.000	1.827
3	HA1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.444
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.940
4	HA2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	5.490
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-4.007
5	(L= 6)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	7.861
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-5.290
6	(L=11)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	5.168
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.466
7	(L=16)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.931
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.282
8	(L=21)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.931
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.282
9	(L=26)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.931
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.282
10	HB1		0.000	0.000	0.000	0.000	0.000	0.000	-0.998
11	HB2		0.000	0.000	0.000	0.000	0.000	0.000	-0.064
12	T(L= 6) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	6.863
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-6.289
13	T(L=11) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.169
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-4.464
14	T(L=16) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	3.933
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-4.280
15	T(L=21) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	3.933
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-4.280
16	T(L=26) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	3.933
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-4.280
17	T(L= 6) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	7.797
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-5.354
18	T(L=11) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	5.104
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.530
19	T(L=16) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.867
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.346
20	T(L=21) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.867
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.346
21	T(L=26) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	4.867
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	-3.346

NO.	LOAD NAME		D-Z(MM) 57	D-Z(MM) 58	D-Z(MM) 59	D-Z(MM) 60	D-Z(MM) 61	D-Z(MM) 62	D-Z(MM) 63
1			0.341	0.278	0.245	0.251	0.330	0.251	0.245
2			1.813	1.785	1.766	1.764	1.763	1.766	1.775
3	HA1	(+)	0.249	0.173	0.138	0.089	0.055	0.091	0.140
		(-)	-3.389	-2.976	-2.769	-2.751	-2.763	-2.755	-2.779
4	HA2	(+)	4.672	4.107	3.894	3.858	3.855	3.860	3.909
		(-)	-3.318	-2.887	-2.675	-2.627	-2.632	-2.632	-2.686
5	(L= 6)	(+)	5.683	3.505	1.922	0.843	0.376	0.262	0.262
		(-)	-3.875	-2.542	-1.501	-0.731	-0.407	-0.356	-0.361
6	(L=11)	(+)	3.864	2.181	1.164	0.513	0.230	0.159	0.160
		(-)	-2.537	-1.585	-0.913	-0.445	-0.252	-0.218	-0.219
7	(L=16)	(+)	3.742	2.133	1.160	0.510	0.225	0.155	0.155
		(-)	-2.431	-1.519	-0.888	-0.435	-0.254	-0.220	-0.218
8	(L=21)	(+)	3.742	2.133	1.160	0.510	0.225	0.155	0.155
		(-)	-2.431	-1.519	-0.888	-0.435	-0.255	-0.221	-0.219
9	(L=26)	(+)	3.742	2.133	1.160	0.510	0.225	0.155	0.155
		(-)	-2.431	-1.519	-0.888	-0.435	-0.248	-0.217	-0.219
10	HB1		-1.234	-1.481	-1.554	-1.517	-1.453	-1.403	-1.355
11	HB2		0.035	0.163	0.140	0.083	0.032	0.034	0.033
12	T(L= 6) + HB1	(+)	4.449	2.024	0.368	-0.673	-1.077	-1.140	-1.093
		(-)	-5.110	-4.023	-3.055	-2.248	-1.859	-1.759	-1.715
13	T(L=11) + HB1	(+)	2.630	0.700	-0.390	-1.004	-1.223	-1.243	-1.195
		(-)	-3.772	-3.066	-2.467	-1.962	-1.705	-1.621	-1.573
14	T(L=16) + HB1	(+)	2.508	0.652	-0.394	-1.007	-1.228	-1.247	-1.199
		(-)	-3.666	-3.000	-2.442	-1.952	-1.706	-1.623	-1.573
15	T(L=21) + HB1	(+)	2.508	0.652	-0.394	-1.007	-1.228	-1.247	-1.199
		(-)	-3.666	-3.000	-2.442	-1.952	-1.708	-1.624	-1.574
16	T(L=26) + HB1	(+)	2.508	0.652	-0.394	-1.007	-1.228	-1.247	-1.199
		(-)	-3.666	-3.000	-2.442	-1.952	-1.700	-1.620	-1.573
17	T(L= 6) + HB2	(+)	5.718	3.669	2.062	0.927	0.407	0.296	0.294
		(-)	-3.840	-2.379	-1.361	-0.648	-0.375	-0.323	-0.328
18	T(L=11) + HB2	(+)	3.899	2.345	1.304	0.596	0.261	0.193	0.192
		(-)	-2.502	-1.422	-0.773	-0.362	-0.220	-0.184	-0.186
19	T(L=16) + HB2	(+)	3.777	2.296	1.300	0.594	0.257	0.189	0.188
		(-)	-2.396	-1.356	-0.748	-0.352	-0.222	-0.186	-0.186
20	T(L=21) + HB2	(+)	3.777	2.296	1.300	0.594	0.257	0.189	0.188
		(-)	-2.396	-1.356	-0.748	-0.352	-0.224	-0.187	-0.187
21	T(L=26) + HB2	(+)	3.777	2.296	1.300	0.594	0.257	0.189	0.188
		(-)	-2.396	-1.356	-0.748	-0.352	-0.216	-0.184	-0.186

NO.	LOAD NAME		D-Z(MM) 64	D-Z(MM) 65	D-Z(MM) 66	D-Z(MM) 67	D-Z(MM) 68	D-Z(MM) 69	D-Z(MM) 70
1			0.276	0.339	0.594	1.313	0.917	0.674	0.591
2			1.778	1.810	1.825	4.329	4.260	4.207	4.175
3	HA1	(+)	0.174	0.248	0.438	0.494	0.287	0.193	0.143
		(-)	-3.003	-3.411	-3.945	-3.906	-3.363	-2.898	-2.595
4	HA2	(+)	4.129	4.687	5.490	7.766	6.630	5.677	5.372
		(-)	-2.911	-3.338	-4.007	-4.147	-3.377	-2.876	-2.574
5	(L= 6)	(+)	0.306	0.309	0.293	10.827	7.789	4.995	2.742
		(-)	-0.378	-0.347	-0.295	-4.992	-3.784	-2.647	-1.658
6	(L=11)	(+)	0.186	0.188	0.178	6.698	4.810	3.075	1.681
		(-)	-0.229	-0.210	-0.179	-3.256	-2.473	-1.672	-1.031
7	(L=16)	(+)	0.181	0.183	0.175	6.698	4.810	3.075	1.678
		(-)	-0.228	-0.208	-0.176	-3.010	-2.247	-1.561	-0.977
8	(L=21)	(+)	0.181	0.183	0.175	6.698	4.810	3.075	1.678
		(-)	-0.228	-0.208	-0.176	-3.010	-2.247	-1.561	-0.977
9	(L=26)	(+)	0.181	0.183	0.175	6.698	4.810	3.075	1.678
		(-)	-0.228	-0.208	-0.176	-3.010	-2.247	-1.561	-0.977
10	HB1		-1.298	-1.244	-1.204	-1.086	-1.245	-1.378	-1.461
11	HB2		0.037	0.044	0.045	0.210	0.523	0.754	0.810
12	T(L= 6) + HB1	(+)	-0.991	-0.935	-0.910	9.741	6.544	3.617	1.282
		(-)	-1.676	-1.591	-1.499	-6.078	-5.029	-4.025	-3.118
13	T(L=11) + HB1	(+)	-1.112	-1.057	-1.026	5.612	3.564	1.696	0.221
		(-)	-1.526	-1.454	-1.382	-4.342	-3.718	-3.051	-2.491
14	T(L=16) + HB1	(+)	-1.116	-1.061	-1.029	5.612	3.564	1.696	0.218
		(-)	-1.525	-1.452	-1.380	-4.097	-3.492	-2.940	-2.438
15	T(L=21) + HB1	(+)	-1.116	-1.061	-1.029	5.612	3.564	1.696	0.218
		(-)	-1.525	-1.452	-1.380	-4.097	-3.492	-2.940	-2.438
16	T(L=26) + HB1	(+)	-1.116	-1.061	-1.029	5.612	3.564	1.696	0.218
		(-)	-1.525	-1.452	-1.380	-4.097	-3.492	-2.940	-2.438
17	T(L= 6) + HB2	(+)	0.343	0.353	0.339	11.038	8.312	5.749	3.552
		(-)	-0.342	-0.303	-0.250	-4.782	-3.261	-1.893	-0.848
18	T(L=11) + HB2	(+)	0.222	0.231	0.223	6.909	5.333	3.829	2.491
		(-)	-0.192	-0.166	-0.133	-3.045	-1.949	-0.918	-0.221
19	T(L=16) + HB2	(+)	0.218	0.227	0.220	6.909	5.333	3.829	2.488
		(-)	-0.191	-0.164	-0.131	-2.800	-1.723	-0.807	-0.168
20	T(L=21) + HB2	(+)	0.218	0.227	0.220	6.909	5.333	3.829	2.488
		(-)	-0.191	-0.164	-0.131	-2.800	-1.723	-0.807	-0.168
21	T(L=26) + HB2	(+)	0.218	0.227	0.220	6.909	5.333	3.829	2.488
		(-)	-0.191	-0.164	-0.131	-2.800	-1.723	-0.807	-0.168

NO.	LOAD NAME		D-Z(MM) 71	D-Z(MM) 72	D-Z(MM) 73	D-Z(MM) 74	D-Z(MM) 75	D-Z(MM) 76	D-Z(MM) 77
1			0.608	0.639	0.609	0.591	0.674	0.916	1.311
2			4.159	4.155	4.163	4.183	4.218	4.270	4.335
3	HA1	(+)	0.084	0.036	0.086	0.145	0.194	0.285	0.487
		(-)	-2.583	-2.588	-2.590	-2.607	-2.912	-3.375	-3.912
4	HA2	(+)	5.354	5.348	5.363	5.388	5.696	6.642	7.762
		(-)	-2.527	-2.532	-2.535	-2.587	-2.890	-3.386	-4.146
5	(L= 6)	(+)	1.162	0.474	0.284	0.278	0.348	0.375	0.376
		(-)	-0.872	-0.553	-0.524	-0.527	-0.533	-0.470	-0.380
6	(L=11)	(+)	0.717	0.297	0.183	0.172	0.214	0.228	0.228
		(-)	-0.536	-0.351	-0.328	-0.324	-0.325	-0.285	-0.230
7	(L=16)	(+)	0.718	0.296	0.173	0.165	0.206	0.222	0.224
		(-)	-0.520	-0.360	-0.334	-0.328	-0.325	-0.284	-0.227
8	(L=21)	(+)	0.718	0.296	0.173	0.165	0.206	0.222	0.224
		(-)	-0.530	-0.364	-0.337	-0.329	-0.325	-0.284	-0.227
9	(L=26)	(+)	0.718	0.296	0.173	0.165	0.206	0.222	0.224
		(-)	-0.524	-0.344	-0.327	-0.328	-0.325	-0.284	-0.227
10	HB1		-1.486	-1.467	-1.422	-1.364	-1.304	-1.244	-1.185
11	HB2		0.726	0.612	0.540	0.511	0.505	0.506	0.510
12	T(L= 6) + HB1	(+)	-0.324	-0.993	-1.138	-1.086	-0.956	-0.869	-0.809
		(-)	-2.358	-2.020	-1.946	-1.891	-1.837	-1.714	-1.565
13	T(L=11) + HB1	(+)	-0.769	-1.170	-1.239	-1.192	-1.090	-1.016	-0.957
		(-)	-2.022	-1.818	-1.750	-1.689	-1.629	-1.529	-1.415
14	T(L=16) + HB1	(+)	-0.768	-1.171	-1.248	-1.200	-1.098	-1.022	-0.961
		(-)	-2.006	-1.827	-1.756	-1.692	-1.629	-1.528	-1.412
15	T(L=21) + HB1	(+)	-0.768	-1.171	-1.248	-1.200	-1.098	-1.022	-0.961
		(-)	-2.016	-1.831	-1.758	-1.694	-1.629	-1.528	-1.412
16	T(L=26) + HB1	(+)	-0.768	-1.171	-1.248	-1.200	-1.098	-1.022	-0.961
		(-)	-2.010	-1.811	-1.748	-1.692	-1.629	-1.528	-1.412
17	T(L= 6) + HB2	(+)	1.889	1.086	0.823	0.789	0.853	0.881	0.886
		(-)	-0.146	0.059	0.015	-0.016	-0.029	0.036	0.130
18	T(L=11) + HB2	(+)	1.444	0.909	0.722	0.683	0.718	0.734	0.738
		(-)	0.191	0.261	0.212	0.187	0.179	0.221	0.280
19	T(L=16) + HB2	(+)	1.445	0.908	0.713	0.676	0.710	0.728	0.734
		(-)	0.206	0.252	0.205	0.183	0.179	0.222	0.283
20	T(L=21) + HB2	(+)	1.445	0.908	0.713	0.676	0.710	0.728	0.734
		(-)	0.197	0.248	0.203	0.182	0.179	0.222	0.283
21	T(L=26) + HB2	(+)	1.445	0.908	0.713	0.676	0.710	0.728	0.734
		(-)	0.203	0.268	0.213	0.183	0.179	0.222	0.283

NO.	LOAD NAME		D-Z(MM) 78	D-Z(MM) 79	D-Z(MM) 80	D-Z(MM) 81	D-Z(MM) 82	D-Z(MM) 83	D-Z(MM) 84
1			1.564	0.821	0.694	0.617	0.630	0.868	0.630
2			4.715	4.526	4.496	4.482	4.465	4.447	4.469
3	HA1	(+)	0.362	0.210	0.139	0.101	0.055	0.019	0.057
		(-)	-2.624	-2.236	-1.939	-1.714	-1.692	-1.688	-1.697
4	HA2	(+)	6.783	5.822	5.198	4.985	4.976	4.956	4.982
		(-)	-2.872	-2.286	-1.954	-1.731	-1.685	-1.685	-1.690
5	(L= 6)	(+)	9.981	7.098	4.226	2.227	0.938	0.365	0.201
		(-)	-3.225	-2.487	-1.821	-1.186	-0.651	-0.439	-0.431
6	(L=11)	(+)	6.810	4.992	2.712	1.372	0.578	0.231	0.133
		(-)	-2.087	-1.607	-1.162	-0.756	-0.411	-0.282	-0.272
7	(L=16)	(+)	6.675	4.871	2.683	1.371	0.581	0.231	0.128
		(-)	-1.940	-1.520	-1.088	-0.711	-0.398	-0.291	-0.279
8	(L=21)	(+)	6.675	4.871	2.683	1.371	0.581	0.231	0.128
		(-)	-1.940	-1.520	-1.088	-0.711	-0.406	-0.298	-0.281
9	(L=26)	(+)	6.675	4.871	2.683	1.371	0.581	0.231	0.128
		(-)	-1.940	-1.520	-1.088	-0.711	-0.400	-0.278	-0.271
10	HB1		-0.776	-0.836	-0.875	-0.937	-0.983	-0.990	-0.963
11	HB2		0.274	0.633	1.101	1.080	0.902	0.727	0.712
12	T(L= 6) + HB1	(+)	9.205	6.260	3.351	1.291	-0.044	-0.625	-0.762
		(-)	-4.001	-3.325	-2.696	-2.123	-1.634	-1.429	-1.394
13	T(L=11) + HB1	(+)	6.034	4.154	1.837	0.436	-0.405	-0.759	-0.830
		(-)	-2.863	-2.446	-2.037	-1.692	-1.394	-1.272	-1.235
14	T(L=16) + HB1	(+)	5.900	4.032	1.808	0.434	-0.402	-0.759	-0.835
		(-)	-2.716	-2.359	-1.963	-1.648	-1.381	-1.281	-1.241
15	T(L=21) + HB1	(+)	5.900	4.032	1.808	0.434	-0.402	-0.759	-0.835
		(-)	-2.716	-2.359	-1.963	-1.648	-1.389	-1.288	-1.243
16	T(L=26) + HB1	(+)	5.900	4.032	1.808	0.434	-0.402	-0.759	-0.835
		(-)	-2.716	-2.359	-1.963	-1.648	-1.383	-1.268	-1.234
17	T(L= 6) + HB2	(+)	10.256	7.732	5.327	3.307	1.840	1.091	0.912
		(-)	-2.951	-1.854	-0.720	-0.106	0.250	0.287	0.280
18	T(L=11) + HB2	(+)	7.084	5.625	3.813	2.452	1.479	0.958	0.844
		(-)	-1.813	-0.974	-0.061	0.324	0.491	0.445	0.439
19	T(L=16) + HB2	(+)	6.950	5.504	3.784	2.451	1.482	0.958	0.840
		(-)	-1.665	-0.887	0.013	0.369	0.504	0.435	0.433
20	T(L=21) + HB2	(+)	6.950	5.504	3.784	2.451	1.482	0.958	0.840
		(-)	-1.665	-0.887	0.013	0.369	0.495	0.429	0.431
21	T(L=26) + HB2	(+)	6.950	5.504	3.784	2.451	1.482	0.958	0.840
		(-)	-1.665	-0.887	0.013	0.369	0.501	0.449	0.441

NO.	LOAD NAME		D-Z(MM) 85	D-Z(MM) 86	D-Z(MM) 87	D-Z(MM) 88	D-Z(MM) 89	D-Z(MM) 90	D-Z(MM) 91
1			0.616	0.700	0.825	1.572	0.000	0.000	0.000
2			4.473	4.541	4.556	4.739	0.000	0.000	0.000
3	HA1	(+)	0.102	0.140	0.209	0.358	0.000	0.000	0.000
		(-)	-1.721	-1.951	-2.246	-2.631	0.000	0.000	0.000
4	HA2	(+)	4.981	5.251	5.854	6.808	0.000	0.000	0.000
		(-)	-1.738	-1.967	-2.293	-2.874	0.000	0.000	0.000
5	(L= 6)	(+)	0.195	0.254	0.282	0.294	0.000	0.000	0.000
		(-)	-0.431	-0.432	-0.373	-0.297	0.000	0.000	0.000
6	(L=11)	(+)	0.125	0.157	0.171	0.178	0.000	0.000	0.000
		(-)	-0.268	-0.265	-0.227	-0.180	0.000	0.000	0.000
7	(L=16)	(+)	0.117	0.151	0.167	0.176	0.000	0.000	0.000
		(-)	-0.271	-0.265	-0.226	-0.178	0.000	0.000	0.000
8	(L=21)	(+)	0.117	0.151	0.167	0.176	0.000	0.000	0.000
		(-)	-0.273	-0.265	-0.226	-0.178	0.000	0.000	0.000
9	(L=26)	(+)	0.117	0.151	0.167	0.176	0.000	0.000	0.000
		(-)	-0.271	-0.265	-0.226	-0.178	0.000	0.000	0.000
10	HB1		-0.919	-0.879	-0.834	-0.792	0.000	0.000	0.000
11	HB2		0.686	0.682	0.666	0.680	0.000	0.000	0.000
12	T(L= 6) + HB1	(+)	-0.725	-0.625	-0.552	-0.498	0.000	0.000	0.000
		(-)	-1.351	-1.312	-1.207	-1.089	0.000	0.000	0.000
13	T(L=11) + HB1	(+)	-0.795	-0.723	-0.662	-0.614	0.000	0.000	0.000
		(-)	-1.187	-1.144	-1.060	-0.972	0.000	0.000	0.000
14	T(L=16) + HB1	(+)	-0.802	-0.729	-0.667	-0.616	0.000	0.000	0.000
		(-)	-1.191	-1.144	-1.059	-0.970	0.000	0.000	0.000
15	T(L=21) + HB1	(+)	-0.802	-0.729	-0.667	-0.616	0.000	0.000	0.000
		(-)	-1.192	-1.144	-1.059	-0.970	0.000	0.000	0.000
16	T(L=26) + HB1	(+)	-0.802	-0.729	-0.667	-0.616	0.000	0.000	0.000
		(-)	-1.191	-1.144	-1.059	-0.970	0.000	0.000	0.000
17	T(L= 6) + HB2	(+)	0.880	0.936	0.948	0.974	0.000	0.000	0.000
		(-)	0.254	0.250	0.292	0.383	0.000	0.000	0.000
18	T(L=11) + HB2	(+)	0.810	0.839	0.837	0.858	0.000	0.000	0.000
		(-)	0.418	0.417	0.439	0.500	0.000	0.000	0.000
19	T(L=16) + HB2	(+)	0.803	0.833	0.832	0.856	0.000	0.000	0.000
		(-)	0.414	0.417	0.440	0.502	0.000	0.000	0.000
20	T(L=21) + HB2	(+)	0.803	0.833	0.832	0.856	0.000	0.000	0.000
		(-)	0.413	0.417	0.440	0.502	0.000	0.000	0.000
21	T(L=26) + HB2	(+)	0.803	0.833	0.832	0.856	0.000	0.000	0.000
		(-)	0.414	0.417	0.440	0.502	0.000	0.000	0.000

NO.	LOAD NAME		D-Z(MM) 92	D-Z(MM) 93	D-Z(MM) 94	D-Z(MM) 95	D-Z(MM) 96	D-Z(MM) 97	D-Z(MM) 98
1			0.000	0.000	0.000	0.000	0.000	0.000	0.000
2			0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	HA1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	HA2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	(L= 6)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	(L=11)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	(L=16)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	(L=21)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	(L=26)	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	HB1		0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	HB2		0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	T(L= 6) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	T(L=11) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	T(L=16) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	T(L=21) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	T(L=26) + HB1	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	T(L= 6) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	T(L=11) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	T(L=16) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	T(L=21) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	T(L=26) + HB2	(+)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		(-)	0.000	0.000	0.000	0.000	0.000	0.000	0.000

NO.	LOAD NAME		D-Z(MM) 99
1			0.000
2			0.000
3	HA1	(+)	0.000
		(-)	0.000
4	HA2	(+)	0.000
		(-)	0.000
5	(L= 6)	(+)	0.000
		(-)	0.000
6	(L=11)	(+)	0.000
		(-)	0.000
7	(L=16)	(+)	0.000
		(-)	0.000
8	(L=21)	(+)	0.000
		(-)	0.000
9	(L=26)	(+)	0.000
		(-)	0.000
10	HB1		0.000
11	HB2		0.000
12	T(L= 6) + HB1	(+)	0.000
		(-)	0.000
13	T(L=11) + HB1	(+)	0.000
		(-)	0.000
14	T(L=16) + HB1	(+)	0.000
		(-)	0.000
15	T(L=21) + HB1	(+)	0.000
		(-)	0.000
16	T(L=26) + HB1	(+)	0.000
		(-)	0.000
17	T(L= 6) + HB2	(+)	0.000
		(-)	0.000
18	T(L=11) + HB2	(+)	0.000
		(-)	0.000
19	T(L=16) + HB2	(+)	0.000
		(-)	0.000
20	T(L=21) + HB2	(+)	0.000
		(-)	0.000
21	T(L=26) + HB2	(+)	0.000
		(-)	0.000

NO.	LOAD NAME		M-Y(T,M) 1 - 12	Q-Z(T) 1 - 12	M-Y(T,M) 12 - 1	Q-Z(T) 12 - 1	M-Y(T,M) 12 - 23	Q-Z(T) 12 - 23	M-Y(T,M) 23 - 12
1			-0.008	8.716	22.906	-1.117	22.906	1.117	10.405
2			-0.021	19.902	61.487	-6.493	61.487	6.493	60.503
3	HA1	(+)	0.002	22.821	77.721	6.028	77.721	14.334	98.374
		(-)	-0.027	-1.294	-6.031	-14.334	-6.031	-6.028	-12.065
4	HA2	(+)	0.006	21.526	73.773	7.894	73.773	13.738	94.628
		(-)	-0.026	-3.820	-17.799	-13.738	-17.799	-7.894	-35.605
5	(L= 6)	(+)	0.006	30.989	113.936	13.304	113.936	16.829	113.798
		(-)	-0.039	-3.502	-16.318	-16.504	-16.318	-13.304	-32.641
6	(L=11)	(+)	0.004	25.052	90.757	12.812	90.757	13.538	91.062
		(-)	-0.031	-2.356	-10.979	-12.295	-10.979	-12.812	-21.961
7	(L=16)	(+)	0.004	24.040	89.860	12.750	89.860	13.430	91.062
		(-)	-0.031	-2.275	-10.597	-12.103	-10.597	-12.750	-21.198
8	(L=21)	(+)	0.004	24.040	89.860	12.766	89.860	17.177	91.062
		(-)	-0.031	-2.275	-10.597	-17.177	-10.597	-12.766	-21.198
9	(L=26)	(+)	0.004	31.265	89.860	12.750	89.860	13.430	91.062
		(-)	-0.031	-2.275	-10.597	-12.103	-10.597	-12.750	-21.198
10	HB1		-0.004	2.826	13.169	-2.826	13.169	2.826	26.342
11	HB2		-0.003	1.791	8.344	-1.791	8.344	1.791	16.690
12	T(L= 6) + HB1	(+)	0.001	33.816	127.105	10.478	127.105	19.655	140.139
		(-)	-0.044	-0.676	-3.149	-19.330	-3.149	-10.478	-6.300
13	T(L=11) + HB1	(+)	-0.001	27.879	103.926	9.986	103.926	16.364	117.404
		(-)	-0.036	0.470	2.190	-15.122	2.190	-9.986	4.381
14	T(L=16) + HB1	(+)	-0.001	26.866	103.029	9.923	103.029	16.256	117.404
		(-)	-0.035	0.552	2.572	-14.929	2.572	-9.923	5.144
15	T(L=21) + HB1	(+)	-0.001	26.866	103.029	9.940	103.029	20.004	117.404
		(-)	-0.035	0.552	2.572	-20.004	2.572	-9.940	5.144
16	T(L=26) + HB1	(+)	-0.001	34.092	103.029	9.923	103.029	16.256	117.404
		(-)	-0.035	0.552	2.572	-14.929	2.572	-9.923	5.144
17	T(L= 6) + HB2	(+)	0.003	32.780	122.280	11.514	122.280	18.620	130.488
		(-)	-0.042	-1.712	-7.974	-18.295	-7.974	-11.514	-15.951
18	T(L=11) + HB2	(+)	0.001	26.843	99.101	11.022	99.101	15.329	107.752
		(-)	-0.034	-0.566	-2.635	-14.086	-2.635	-11.022	-5.271
19	T(L=16) + HB2	(+)	0.001	25.830	98.204	10.959	98.204	15.221	107.752
		(-)	-0.034	-0.484	-2.253	-13.894	-2.253	-10.959	-4.508
20	T(L=21) + HB2	(+)	0.001	25.830	98.204	10.975	98.204	18.968	107.752
		(-)	-0.034	-0.484	-2.253	-18.968	-2.253	-10.975	-4.508
21	T(L=26) + HB2	(+)	0.001	33.056	98.204	10.959	98.204	15.221	107.752
		(-)	-0.034	-0.484	-2.253	-13.894	-2.253	-10.959	-4.508

NO.	LOAD NAME		Q-Z(T) 23 - 12	M-Y(T,M) 23 - 34	Q-Z(T) 23 - 34	M-Y(T,M) 34 - 23	Q-Z(T) 34 - 23	M-Y(T,M) 34 - 45	Q-Z(T) 34 - 45
1			6.481	10.390	1.882	1.455	5.717	1.455	-5.717
2			6.915	60.442	-6.810	-2.542	20.218	-2.542	-20.218
3	HA1	(+)	12.990	98.272	10.712	48.124	19.587	48.124	4.623
		(-)	-8.943	-12.053	-13.398	-4.609	-4.623	-4.609	-19.587
4	HA2	(+)	14.345	94.531	10.923	47.704	20.871	47.704	5.212
		(-)	-8.713	-35.561	-15.178	-43.752	-5.212	-43.752	-20.871
5	(L= 6)	(+)	26.069	113.674	14.337	68.110	32.169	68.110	2.531
		(-)	-5.421	-32.593	-18.213	-62.158	-2.531	-62.158	-33.496
6	(L=11)	(+)	23.249	90.973	13.866	58.561	26.118	58.561	1.670
		(-)	-9.275	-21.931	-16.658	-41.540	-4.164	-41.540	-26.601
7	(L=16)	(+)	23.510	90.973	13.250	58.512	26.462	58.512	0.227
		(-)	-8.040	-21.169	-17.793	-39.792	-0.934	-39.792	-26.675
8	(L=21)	(+)	23.240	90.973	13.929	58.512	26.706	58.512	0.227
		(-)	-5.034	-21.169	-17.736	-40.772	-0.227	-40.772	-26.534
9	(L=26)	(+)	23.221	90.973	13.250	58.512	25.873	58.512	0.227
		(-)	-5.931	-21.169	-16.786	-39.792	-0.227	-39.792	-26.080
10	HB1		-2.826	26.316	-3.882	8.223	3.882	8.223	-3.882
11	HB2		-1.791	16.676	-3.398	0.839	3.398	0.839	-3.398
12	T(L= 6) + HB1	(+)	23.243	139.991	10.455	76.333	36.051	76.333	-1.351
		(-)	-8.248	-6.277	-22.095	-53.935	1.351	-53.935	-37.378
13	T(L=11) + HB1	(+)	20.423	117.290	9.984	66.784	30.000	66.784	-2.212
		(-)	-12.101	4.386	-20.540	-33.317	-0.282	-33.317	-30.483
14	T(L=16) + HB1	(+)	20.684	117.290	9.367	66.735	30.344	66.735	-3.655
		(-)	-10.866	5.147	-21.675	-31.569	2.948	-31.569	-30.557
15	T(L=21) + HB1	(+)	20.413	117.290	10.047	66.735	30.588	66.735	-3.655
		(-)	-7.860	5.147	-21.618	-32.548	3.655	-32.548	-30.416
16	T(L=26) + HB1	(+)	20.394	117.290	9.367	66.735	29.755	66.735	-3.655
		(-)	-8.758	5.147	-20.668	-31.569	3.655	-31.569	-29.962
17	T(L= 6) + HB2	(+)	24.278	130.350	10.939	68.948	35.567	68.948	-0.867
		(-)	-7.212	-15.917	-21.611	-61.320	0.867	-61.320	-36.894
18	T(L=11) + HB2	(+)	21.458	107.649	10.468	59.399	29.516	59.399	-1.728
		(-)	-11.066	-5.255	-20.056	-40.702	-0.766	-40.702	-29.999
19	T(L=16) + HB2	(+)	21.719	107.649	9.852	59.350	29.860	59.350	-3.171
		(-)	-9.831	-4.493	-21.191	-38.954	2.464	-38.954	-30.073
20	T(L=21) + HB2	(+)	21.449	107.649	10.531	59.350	30.104	59.350	-3.171
		(-)	-6.825	-4.493	-21.134	-39.933	3.171	-39.933	-29.932
21	T(L=26) + HB2	(+)	21.430	107.649	9.852	59.350	29.271	59.350	-3.171
		(-)	-7.722	-4.493	-20.184	-38.954	3.171	-38.954	-29.478

NO.	LOAD NAME		M-Y(T,M) 45 - 34	Q-Z(T) 45 - 34	M-Y(T,M) 45 - 56	Q-Z(T) 45 - 56	M-Y(T,M) 56 - 45	Q-Z(T) 56 - 45	M-Y(T,M) 56 - 67
1			-42.895	13.315	-42.867	13.304	1.430	-5.705	1.430
2			-128.018	33.627	-127.930	33.597	-2.592	-20.188	-2.592
3	HA1	(+)	5.888	27.607	5.884	10.215	4.482	1.318	4.482
		(-)	-59.454	-1.878	-59.412	-1.318	-44.116	-4.054	-44.116
4	HA2	(+)	9.274	28.120	9.267	28.106	47.455	5.220	47.455
		(-)	-94.838	-2.584	-94.771	-2.589	-43.557	-20.860	-43.557
5	(L= 6)	(+)	0.000	41.755	0.000	41.711	67.697	3.934	67.697
		(-)	-106.088	0.000	-106.029	0.000	-61.871	-29.026	-61.871
6	(L=11)	(+)	0.000	36.358	0.000	36.354	58.269	4.924	58.269
		(-)	-111.491	-0.070	-111.424	-0.071	-41.312	-26.155	-41.312
7	(L=16)	(+)	0.000	31.242	0.000	31.253	58.245	6.787	58.245
		(-)	-102.537	-0.227	-102.468	-0.229	-39.560	-23.490	-39.560
8	(L=21)	(+)	0.000	30.285	0.000	30.279	58.245	7.618	58.245
		(-)	-86.619	-0.227	-86.561	-0.229	-40.571	-24.170	-40.571
9	(L=26)	(+)	0.000	29.785	0.000	29.773	58.245	7.661	58.245
		(-)	-66.998	-0.227	-66.958	-0.229	-39.560	-21.458	-39.560
10	HB1		-9.869	3.882	-9.862	-0.049	-10.091	0.049	-10.091
11	HB2		-14.998	3.398	-14.987	2.414	-3.736	-2.414	-3.736
12	T(L= 6) + HB1	(+)	-9.869	45.637	-9.862	41.662	57.606	3.983	57.606
		(-)	-115.958	3.882	-115.892	-0.049	-71.962	-28.977	-71.962
13	T(L=11) + HB1	(+)	-9.869	40.240	-9.862	36.305	48.179	4.973	48.179
		(-)	-121.360	3.312	-121.286	-0.120	-51.403	-26.106	-51.403
14	T(L=16) + HB1	(+)	-9.869	35.124	-9.862	31.204	48.155	6.836	48.155
		(-)	-112.406	3.055	-112.330	-0.278	-49.651	-23.441	-49.651
15	T(L=21) + HB1	(+)	-9.869	34.165	-9.862	30.230	48.155	7.667	48.155
		(-)	-96.488	3.655	-96.423	-0.278	-50.662	-24.121	-50.662
16	T(L=26) + HB1	(+)	-9.869	33.668	-9.862	29.724	48.155	7.710	48.155
		(-)	-76.867	3.655	-76.820	-0.278	-49.651	-21.409	-49.651
17	T(L= 6) + HB2	(+)	-14.998	45.153	-14.987	44.125	63.961	1.520	63.961
		(-)	-121.087	3.398	-121.017	2.414	-65.607	-31.440	-65.607
18	T(L=11) + HB2	(+)	-14.998	39.756	-14.987	38.768	54.533	2.510	54.533
		(-)	-126.489	3.328	-126.412	2.343	-45.048	-28.569	-45.048
19	T(L=16) + HB2	(+)	-14.998	34.640	-14.987	33.667	54.509	4.373	54.509
		(-)	-117.535	3.171	-117.456	2.185	-43.296	-25.904	-43.296
20	T(L=21) + HB2	(+)	-14.998	33.681	-14.987	32.693	54.509	5.204	54.509
		(-)	-101.617	3.171	-101.548	2.185	-44.308	-26.584	-44.308
21	T(L=26) + HB2	(+)	-14.998	33.183	-14.987	32.187	54.509	5.247	54.509
		(-)	-81.996	3.171	-81.945	2.185	-43.296	-23.872	-43.296

NO.	LOAD NAME		Q-Z(T) 56 - 67	M-Y(T,M) 67 - 56	Q-Z(T) 67 - 56	M-Y(T,M) 67 - 78	Q-Z(T) 67 - 78	M-Y(T,M) 78 - 67	Q-Z(T) 78 - 67
1			5.705	10.311	1.894	10.296	6.495	22.860	1.104
2			20.188	60.252	-6.779	60.193	6.953	61.354	6.455
3	HA1	(+)	4.054	5.191	1.318	5.186	3.185	2.593	0.556
		(-)	-1.318	-29.737	-4.054	-29.698	-0.556	-14.851	-3.185
4	HA2	(+)	20.860	94.184	10.939	94.090	14.345	73.505	13.676
		(-)	-5.220	-35.332	-15.163	-35.290	-8.667	-17.647	-7.884
5	(L= 6)	(+)	27.490	113.025	19.532	112.907	22.718	113.485	23.571
		(-)	-3.934	-32.238	-14.176	-32.191	-11.596	-16.098	-5.418
6	(L=11)	(+)	25.663	90.597	14.639	90.512	20.318	90.475	19.406
		(-)	-4.924	-21.737	-16.759	-21.708	-9.623	-10.856	-9.593
7	(L=16)	(+)	23.270	90.597	15.930	90.512	21.143	89.592	19.217
		(-)	-6.787	-20.992	-17.689	-20.965	-9.107	-10.484	-5.133
8	(L=21)	(+)	24.339	90.597	18.385	90.512	20.844	89.592	19.217
		(-)	-7.618	-20.992	-13.881	-20.965	-10.543	-10.484	-5.659
9	(L=26)	(+)	21.245	90.597	18.385	90.512	20.027	89.592	19.217
		(-)	-7.661	-20.992	-11.808	-20.965	-10.543	-10.484	-6.104
10	HB1		-0.049	-10.320	0.049	-10.308	1.106	-5.155	-1.106
11	HB2		2.414	7.514	-2.414	7.510	-0.805	3.755	0.805
12	T(L= 6) + HB1	(+)	27.441	102.705	19.581	102.599	23.823	108.331	22.465
		(-)	-3.983	-42.557	-14.127	-42.499	-10.490	-21.253	-6.523
13	T(L=11) + HB1	(+)	25.614	80.278	14.688	80.204	21.423	85.320	18.300
		(-)	-4.973	-32.057	-16.710	-32.016	-8.518	-16.011	-10.699
14	T(L=16) + HB1	(+)	23.221	80.278	15.979	80.204	22.249	84.437	18.111
		(-)	-6.836	-31.312	-17.640	-31.272	-8.001	-15.639	-6.238
15	T(L=21) + HB1	(+)	24.290	80.278	18.434	80.204	21.949	84.437	18.111
		(-)	-7.667	-31.312	-13.832	-31.272	-9.438	-15.639	-6.764
16	T(L=26) + HB1	(+)	21.196	80.278	18.434	80.204	21.133	84.437	18.111
		(-)	-7.710	-31.312	-11.759	-31.272	-9.438	-15.639	-7.210
17	T(L= 6) + HB2	(+)	29.904	120.539	17.118	120.416	21.912	117.241	24.376
		(-)	-1.520	-24.723	-16.590	-24.682	-12.401	-12.343	-4.612
18	T(L=11) + HB2	(+)	28.077	98.112	12.225	98.022	19.512	94.230	20.211
		(-)	-2.510	-14.223	-19.173	-14.199	-10.429	-7.100	-8.788
19	T(L=16) + HB2	(+)	25.684	98.112	13.516	98.022	20.337	93.347	20.022
		(-)	-4.373	-13.478	-20.103	-13.455	-9.912	-6.729	-4.327
20	T(L=21) + HB2	(+)	26.753	98.112	15.971	98.022	20.038	93.347	20.022
		(-)	-5.204	-13.478	-16.295	-13.455	-11.349	-6.729	-4.853
21	T(L=26) + HB2	(+)	23.659	98.112	15.971	98.022	19.222	93.347	20.022
		(-)	-5.247	-13.478	-14.222	-13.455	-11.349	-6.729	-5.299

NO.	LOAD NAME		M-Y(T,M) 76 - 89	Q-Z(T) 78 - 89	M-Y(T,M) 89 - 78	Q-Z(T) 89 - 78	M-Y(T,M) 2 - 13	Q-Z(T) 2 - 13	M-Y(T,M) 13 - 2
1			22.860	-1.104	0.007	8.703	-0.002	0.879	7.249
2			61.354	-6.455	0.020	19.864	-0.019	17.812	55.888
3	HA1	(+)	2.593	3.185	0.000	0.556	0.001	21.552	67.482
		(-)	-14.851	-0.556	-0.005	-3.185	-0.024	-1.431	-3.196
4	HA2	(+)	73.505	7.884	0.023	21.475	0.004	20.242	63.525
		(-)	-17.647	-13.676	-0.006	-3.785	-0.022	-3.210	-13.561
5	(L= 6)	(+)	113.485	5.418	0.036	30.876	0.005	21.884	78.043
		(-)	-16.098	-23.571	-0.005	-3.453	-0.027	-2.783	-12.967
6	(L=11)	(+)	90.475	4.709	0.029	24.974	0.004	25.346	65.853
		(-)	-10.856	-19.406	-0.003	-2.328	-0.023	-2.095	-9.761
7	(L=16)	(+)	89.592	5.133	0.029	23.979	0.003	18.173	65.520
		(-)	-10.484	-19.217	-0.003	-2.249	-0.023	-2.417	-9.408
8	(L=21)	(+)	89.592	5.659	0.029	23.979	0.003	20.797	65.520
		(-)	-10.484	-19.217	-0.003	-2.249	-0.023	-4.649	-9.126
9	(L=26)	(+)	89.592	6.104	0.029	31.246	0.003	21.051	65.520
		(-)	-10.484	-19.217	-0.003	-2.249	-0.023	-1.959	-9.126
10	HB1		-5.155	1.106	-0.002	-1.106	-0.007	4.823	19.257
11	HB2		3.755	-0.805	0.001	0.805	-0.005	3.603	14.051
12	T(L= 6) + HB1	(+)	108.331	6.523	0.035	29.771	-0.002	26.707	97.300
		(-)	-21.253	-22.465	-0.007	-4.559	-0.034	2.040	6.290
13	T(L=11) + HB1	(+)	85.320	5.815	0.027	23.868	-0.003	30.169	85.110
		(-)	-16.011	-18.300	-0.005	-3.434	-0.030	2.728	9.496
14	T(L=16) + HB1	(+)	84.437	6.238	0.027	22.873	-0.003	22.996	84.777
		(-)	-15.639	-18.111	-0.005	-3.354	-0.030	2.406	9.849
15	T(L=21) + HB1	(+)	84.437	6.764	0.027	22.873	-0.003	25.620	84.777
		(-)	-15.639	-18.111	-0.005	-3.354	-0.030	0.173	10.131
16	T(L=26) + HB1	(+)	84.437	7.210	0.027	30.140	-0.003	25.873	84.777
		(-)	-15.639	-18.111	-0.005	-3.354	-0.030	2.864	10.131
17	T(L= 6) + HB2	(+)	117.241	4.612	0.037	31.682	-0.000	25.486	92.094
		(-)	-12.343	-24.376	-0.004	-2.647	-0.032	0.820	1.084
18	T(L=11) + HB2	(+)	94.230	3.904	0.030	25.780	-0.001	28.949	79.904
		(-)	-7.100	-20.211	-0.002	-1.523	-0.028	1.508	4.290
19	T(L=16) + HB2	(+)	93.347	4.327	0.030	24.784	-0.001	21.776	79.571
		(-)	-6.729	-20.022	-0.002	-1.443	-0.028	1.186	4.643
20	T(L=21) + HB2	(+)	93.347	4.853	0.030	24.784	-0.002	24.400	79.571
		(-)	-6.729	-20.022	-0.002	-1.443	-0.028	-1.047	4.925
21	T(L=26) + HB2	(+)	93.347	5.299	0.030	32.051	-0.002	24.653	79.571
		(-)	-6.729	-20.022	-0.002	-1.443	-0.028	1.644	4.925

NO.	LOAD NAME		Q-Z(T) 13 - 2	M-Y(T,M) 13 - 24	Q-Z(T) 13 - 24	M-Y(T,M) 24 - 13	Q-Z(T) 24 - 13	M-Y(T,M) 24 - 35	Q-Z(T) 24 - 35
1			-2.233	7.249	2.233	20.815	-3.588	20.799	-5.806
2			-6.178	55.888	6.178	57.571	5.456	57.513	-7.113
3	HA1	(+)	6.234	67.462	12.722	83.304	13.974	83.223	11.740
		(-)	-12.722	-3.196	-6.234	-9.451	-8.614	-9.452	-12.311
4	HA2	(+)	7.734	63.525	12.061	78.963	14.891	78.887	11.656
		(-)	-12.061	-13.561	-7.734	-28.764	-8.183	-28.735	-13.792
5	(L= 6)	(+)	11.472	78.043	13.700	83.987	22.814	83.905	14.816
		(-)	-16.169	-12.967	-11.472	-25.938	-7.319	-25.903	-14.617
6	(L=11)	(+)	11.258	65.853	11.725	66.885	20.484	66.822	14.057
		(-)	-12.253	-9.761	-11.258	-19.301	-8.500	-19.281	-12.370
7	(L=16)	(+)	11.238	65.520	10.672	63.487	20.465	63.427	14.510
		(-)	-7.585	-9.408	-11.238	-18.554	-6.513	-18.537	-12.175
8	(L=21)	(+)	11.238	65.520	12.043	63.487	20.465	63.427	16.280
		(-)	-9.808	-9.126	-11.238	-22.045	-6.859	-22.031	-13.577
9	(L=26)	(+)	11.238	65.520	12.615	63.487	20.465	63.427	14.516
		(-)	-10.356	-9.126	-11.238	-23.424	-5.543	-23.411	-11.549
10	HB1		-3.443	19.257	3.443	32.092	-1.476	32.060	-3.281
11	HB2		-2.429	14.051	2.429	22.636	-0.667	22.616	-3.426
12	T(L= 6) + HB1	(+)	8.029	97.300	17.143	116.079	21.337	115.966	11.535
		(-)	-19.612	6.290	-8.029	6.154	-8.796	6.158	-17.899
13	T(L=11) + HB1	(+)	7.815	85.110	15.168	98.977	19.008	98.882	10.775
		(-)	-15.696	9.496	-7.815	12.791	-9.976	12.780	-15.652
14	T(L=16) + HB1	(+)	7.795	84.777	14.116	95.579	18.988	95.487	11.228
		(-)	-11.029	9.849	-7.795	13.538	-7.989	13.523	-15.456
15	T(L=21) + HB1	(+)	7.795	84.777	15.486	95.579	18.988	95.487	12.998
		(-)	-13.251	10.131	-7.795	10.047	-8.336	10.029	-16.858
16	T(L=26) + HB1	(+)	7.795	84.777	16.059	95.579	18.988	95.487	11.235
		(-)	-13.800	10.131	-7.795	8.668	-7.020	8.649	-14.831
17	T(L= 6) + HB2	(+)	9.043	92.094	16.128	106.623	22.146	106.521	11.390
		(-)	-18.598	1.084	-9.043	-3.302	-7.987	-3.287	-18.044
18	T(L=11) + HB2	(+)	8.829	79.904	14.154	89.521	19.817	89.438	10.630
		(-)	-14.682	4.290	-8.829	3.335	-9.167	3.335	-15.797
19	T(L=16) + HB2	(+)	8.809	79.571	13.101	86.124	19.797	86.043	11.084
		(-)	-10.014	4.643	-8.809	4.083	-7.180	4.079	-15.601
20	T(L=21) + HB2	(+)	8.809	79.571	14.471	86.124	19.797	86.043	12.853
		(-)	-12.237	4.925	-8.809	0.591	-7.527	0.585	-17.003
21	T(L=26) + HB2	(+)	8.809	79.571	15.044	86.124	19.797	86.043	11.090
		(-)	-12.785	4.925	-8.809	-0.788	-6.211	-0.795	-14.976

NO.	LOAD NAME		M-Y(T,M) 35 - 24	Q-Z(T) 35 - 24	M-Y(T,M) 35 - 46	Q-Z(T) 35 - 46	M-Y(T,M) 46 - 35	Q-Z(T) 46 - 35	M-Y(T,M) 46 - 57
1			-3.108	4.452	-3.108	-4.452	-20.702	3.098	-20.686
2			-2.753	18.747	-2.753	-18.747	-117.245	30.381	-117.165
3	HA1	(+)	43.260	17.415	43.260	4.578	2.127	25.831	2.126
		(-)	-4.467	-4.578	-4.467	-17.415	-50.110	-1.718	-50.079
4	HA2	(+)	41.714	18.549	41.714	4.955	3.392	26.235	3.389
		(-)	-36.200	-4.955	-36.200	-18.549	-79.969	-2.200	-79.918
5	(L= 6)	(+)	48.683	24.621	48.683	2.894	0.997	31.767	0.999
		(-)	-42.626	-2.894	-42.626	-24.621	-78.504	-3.232	-78.461
6	(L=11)	(+)	44.467	20.724	44.467	4.456	0.000	28.719	0.000
		(-)	-29.994	-5.856	-29.994	-20.904	-76.608	-2.242	-76.565
7	(L=16)	(+)	44.867	20.064	44.867	6.144	0.650	24.841	0.650
		(-)	-29.863	-6.144	-29.863	-20.064	-64.478	-1.383	-64.435
8	(L=21)	(+)	44.867	20.078	44.867	5.430	0.650	25.975	0.650
		(-)	-30.000	-1.210	-30.000	-20.177	-64.378	-2.308	-64.336
9	(L=26)	(+)	44.867	20.489	44.867	1.545	0.650	24.127	0.650
		(-)	-28.578	-1.145	-28.578	-20.517	-57.855	-2.148	-57.820
10	HB1		10.813	5.248	10.813	-5.248	-16.864	6.628	-16.852
11	HB2		1.172	5.188	1.172	-5.188	-25.744	6.362	-25.725
12	T(L= 6) + HB1	(+)	59.496	29.869	59.496	-2.354	-15.867	38.395	-15.853
		(-)	-31.813	2.354	-31.813	-29.869	-95.368	3.396	-95.313
13	T(L=11) + HB1	(+)	55.280	25.973	55.280	-0.792	-16.864	35.346	-16.852
		(-)	-19.182	-0.607	-19.182	-26.152	-93.473	4.386	-93.418
14	T(L=16) + HB1	(+)	55.679	25.315	55.679	0.896	-16.215	31.469	-16.202
		(-)	-19.050	-0.896	-19.050	-25.313	-81.342	5.245	-81.288
15	T(L=21) + HB1	(+)	55.679	25.326	55.679	0.182	-16.215	32.603	-16.202
		(-)	-19.187	4.039	-19.187	-25.425	-81.242	4.320	-81.189
16	T(L=26) + HB1	(+)	55.679	25.738	55.679	-3.903	-16.215	30.755	-16.202
		(-)	-17.765	4.103	-17.765	-25.765	-74.720	4.480	-74.673
17	T(L= 6) + HB2	(+)	49.655	29.809	49.855	-2.294	-24.746	38.129	-24.726
		(-)	-41.454	2.294	-41.454	-29.809	-104.247	3.130	-104.186
18	T(L=11) + HB2	(+)	45.639	25.912	45.639	-0.732	-25.744	35.080	-25.725
		(-)	-28.822	-0.668	-28.822	-26.091	-102.352	4.120	-102.291
19	T(L=16) + HB2	(+)	46.038	25.252	46.038	0.957	-25.094	31.203	-25.075
		(-)	-26.691	-0.957	-28.691	-25.252	-90.221	4.979	-90.161
20	T(L=21) + HB2	(+)	46.038	25.266	46.038	0.243	-25.094	32.336	-25.075
		(-)	-28.828	3.978	-28.828	-25.364	-90.121	4.054	-90.062
21	T(L=26) + HB2	(+)	46.038	25.677	46.038	-3.842	-25.094	30.489	-25.075
		(-)	-27.406	4.043	-27.406	-25.704	-83.599	4.214	-83.546

** UHURU BRIDGE **

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NO.	LOAD NAME		Q-Z(T) 46 - 57	M-Y(T,M) 57 - 46	Q-Z(T) 57 - 46	M-Y(T,M) 57 - 68	Q-Z(T) 57 - 68	M-Y(T,M) 68 - 57	Q-Z(T) 68 - 57
1			3.110	-3.032	-4.465	-3.032	4.465	20.935	-5.819
2			30.445	-2.370	-18.811	-2.370	18.811	58.196	-7.177
3	HA1	(+)	10.026	2.261	1.046	2.261	3.634	2.870	1.046
		(-)	-1.269	-36.510	-3.634	-36.510	-1.046	-24.951	-3.634
4	HA2	(+)	26.269	41.888	4.964	41.888	18.592	79.499	11.650
		(-)	-2.208	-36.147	-18.592	-36.147	-4.964	-28.855	-13.847
5	(L= 6)	(+)	31.820	48.984	4.048	48.984	21.410	84.510	17.982
		(-)	-3.240	-42.596	-22.986	-42.596	-4.048	-26.331	-13.009
6	(L=11)	(+)	28.809	44.599	5.974	44.599	20.104	67.263	14.394
		(-)	-2.254	-29.958	-20.278	-29.958	-5.974	-19.242	-12.364
7	(L=16)	(+)	24.830	44.967	7.562	44.967	16.295	63.843	15.985
		(-)	-1.379	-29.699	-16.295	-29.699	-7.562	-18.797	-12.138
8	(L=21)	(+)	25.984	44.967	7.619	44.967	17.459	63.843	17.721
		(-)	-2.307	-29.944	-17.557	-29.944	-7.619	-21.731	-12.222
9	(L=26)	(+)	24.140	44.967	7.621	44.967	16.261	63.843	17.467
		(-)	-2.126	-28.576	-16.288	-28.576	-7.621	-23.157	-9.834
10	HB1		0.808	-13.086	-0.808	-13.086	0.808	-9.320	-0.808
11	HB2		5.165	-4.387	-3.991	-4.387	3.991	11.481	-2.817
12	T(L= 6) + HB1	(+)	32.628	35.898	3.240	35.898	22.218	75.189	17.174
		(-)	-2.432	-55.682	-23.794	-55.682	-3.240	-35.651	-13.817
13	T(L=11) + HB1	(+)	29.617	31.513	5.166	31.513	20.912	57.942	13.586
		(-)	-1.446	-43.044	-21.086	-43.044	-5.166	-28.562	-13.172
14	T(L=16) + HB1	(+)	25.638	31.880	6.754	31.880	17.103	54.523	15.177
		(-)	-0.571	-42.785	-17.103	-42.785	-6.754	-28.117	-12.946
15	T(L=21) + HB1	(+)	26.792	31.880	6.811	31.880	18.267	54.523	16.913
		(-)	-1.499	-43.030	-18.365	-43.030	-6.811	-31.051	-13.030
16	T(L=26) + HB1	(+)	24.948	31.880	6.813	31.880	17.069	54.523	16.659
		(-)	-1.318	-41.663	-17.096	-41.663	-6.813	-32.477	-10.642
17	T(L= 6) + HB2	(+)	36.985	44.597	0.057	44.597	25.401	95.990	15.164
		(-)	1.925	-46.983	-26.978	-46.983	-0.057	-14.850	-15.826
18	T(L=11) + HB2	(+)	33.974	40.212	1.983	40.212	24.096	78.743	11.576
		(-)	2.911	-34.345	-24.269	-34.345	-1.983	-7.761	-15.181
19	T(L=16) + HB2	(+)	29.995	40.580	3.571	40.580	20.286	75.324	13.167
		(-)	3.786	-34.085	-20.286	-34.085	-3.571	-7.316	-14.955
20	T(L=21) + HB2	(+)	31.149	40.580	3.628	40.580	21.450	75.324	14.904
		(-)	2.858	-34.331	-21.549	-34.331	-3.628	-10.250	-15.040
21	T(L=26) + HB2	(+)	29.305	40.580	3.629	40.580	20.252	75.324	14.649
		(-)	3.039	-32.963	-20.279	-32.963	-3.629	-11.676	-12.651

NO.	LOAD NAME		M-Y(T.M) 68 - 79	Q-Z(T) 68 - 79	M-Y(T.M) 79 - 68	Q-Z(T) 79 - 68	M-Y(T.M) 79 - 90	Q-Z(T) 79 - 90	M-Y(T.M) 90 - 79
1			20.920	-3.598	7.305	2.244	7.305	-2.244	0.002
2			58.140	5.399	56.193	6.235	56.193	-6.235	0.018
3	HA1	(+)	2.867	2.673	1.434	0.308	1.434	2.673	0.000
		(-)	-24.920	-0.308	-12.462	-2.673	-12.462	-0.308	-0.004
4	HA2	(+)	79.424	14.880	63.886	12.121	63.886	7.723	0.020
		(-)	-28.826	-8.221	-13.646	-7.723	-13.646	-12.121	-0.005
5	(L= 6)	(+)	84.432	20.259	78.468	19.220	78.468	6.080	0.025
		(-)	-26.297	-11.036	-13.151	-6.080	-13.151	-17.932	-0.004
6	(L=11)	(+)	67.203	18.211	66.211	16.735	66.211	6.778	0.021
		(-)	-19.221	-8.947	-9.758	-8.893	-9.758	-16.033	-0.003
7	(L=16)	(+)	63.785	19.268	65.876	15.887	65.876	5.687	0.021
		(-)	-18.786	-8.121	-9.469	-5.687	-9.469	-14.129	-0.003
8	(L=21)	(+)	63.785	19.197	65.876	15.887	65.876	8.588	0.021
		(-)	-21.719	-9.201	-9.178	-6.405	-9.178	-14.129	-0.003
9	(L=26)	(+)	63.785	18.463	65.876	15.887	65.876	6.265	0.021
		(-)	-23.146	-9.201	-9.178	-6.265	-9.178	-14.129	-0.003
10	HB1		-9.308	0.998	-4.655	-0.998	-4.655	0.998	-0.001
11	HB2		11.472	-0.056	8.473	1.230	8.473	-1.230	0.003
12	T(L= 6) + HB1	(+)	75.123	21.257	73.813	18.222	73.813	7.079	0.024
		(-)	-35.605	-10.038	-17.805	-7.079	-17.805	-16.933	-0.006
13	T(L=11) + HB1	(+)	57.894	19.209	61.557	15.737	61.557	7.777	0.019
		(-)	-28.529	-7.948	-14.412	-9.892	-14.412	-15.035	-0.005
14	T(L=16) + HB1	(+)	54.477	20.266	61.221	14.888	61.221	6.686	0.019
		(-)	-28.095	-7.122	-14.124	-6.686	-14.124	-13.130	-0.004
15	T(L=21) + HB1	(+)	54.477	20.195	61.221	14.888	61.221	9.586	0.019
		(-)	-31.027	-8.203	-13.833	-7.403	-13.833	-13.130	-0.004
16	T(L=26) + HB1	(+)	54.477	19.461	61.221	14.888	61.221	7.263	0.019
		(-)	-32.454	-8.203	-13.833	-7.263	-13.833	-13.130	-0.004
17	T(L= 6) + HB2	(+)	95.903	20.202	86.941	20.450	86.941	4.850	0.028
		(-)	-14.826	-11.093	-4.678	-4.850	-4.678	-19.162	-0.001
18	T(L=11) + HB2	(+)	78.674	18.155	74.684	17.965	74.684	5.548	0.024
		(-)	-7.749	-9.003	-1.285	-7.663	-1.285	-17.264	-0.000
19	T(L=16) + HB2	(+)	75.257	19.211	74.348	17.117	74.348	4.457	0.024
		(-)	-7.315	-8.177	-0.996	-4.457	-0.996	-15.359	-0.000
20	T(L=21) + HB2	(+)	75.257	19.141	74.348	17.117	74.348	7.357	0.024
		(-)	-10.247	-9.258	-0.705	-5.174	-0.705	-15.359	-0.000
21	T(L=26) + HB2	(+)	75.257	18.406	74.348	17.117	74.348	5.035	0.024
		(-)	-11.674	-9.258	-0.705	-5.035	-0.705	-15.359	-0.000

NO.	LOAD NAME		Q-Z(T) 90 - 79	M-Y(T,M) 3 - 14	Q-Z(T) 3 - 14	M-Y(T,M) 14 - 3	Q-Z(T) 14 - 3	M-Y(T,M) 14 - 25	Q-Z(T) 14 - 25
1			0.888	-0.003	2.344	8.074	-1.121	8.074	1.121
2			17.869	-0.019	17.735	55.534	-6.100	55.534	6.100
3	HA1	(+)	0.308	0.001	20.921	63.959	6.742	63.959	11.920
		(-)	-2.673	-0.022	-0.795	-3.706	-11.920	-3.706	-6.742
4	HA2	(+)	20.280	0.004	19.640	60.137	8.052	60.137	11.294
		(-)	-3.226	-0.021	-2.718	-12.664	-11.294	-12.664	-8.052
5	(L= 6)	(+)	21.963	0.004	9.266	38.827	3.543	38.827	7.184
		(-)	-2.820	-0.013	-2.282	-10.631	-7.184	-10.631	-3.543
6	(L=11)	(+)	25.379	0.003	6.597	27.012	2.980	27.012	4.868
		(-)	-2.093	-0.009	-1.555	-7.244	-4.756	-7.244	-2.980
7	(L=16)	(+)	16.234	0.002	6.458	26.895	2.905	26.895	4.868
		(-)	-2.425	-0.009	-1.473	-6.862	-4.731	-6.862	-2.905
8	(L=21)	(+)	20.835	0.002	6.458	26.895	2.905	26.895	5.368
		(-)	-4.658	-0.009	-1.473	-6.862	-5.368	-6.862	-2.905
9	(L=26)	(+)	18.234	0.002	7.418	26.895	2.905	26.895	4.868
		(-)	-1.968	-0.009	-1.473	-6.862	-4.731	-6.862	-2.905
10	HB1		-0.998	-0.011	10.717	31.040	-2.606	31.040	2.606
11	HB2		2.404	-0.009	8.762	24.746	-1.859	24.746	1.859
12	T(L= 6) + HB1	(+)	20.964	-0.007	19.983	69.867	0.938	69.867	9.789
		(-)	-3.819	-0.024	8.436	20.409	-9.789	20.409	-0.938
13	T(L=11) + HB1	(+)	24.381	-0.008	17.314	58.052	0.375	58.052	7.473
		(-)	-3.091	-0.020	9.163	23.797	-7.362	23.797	-0.375
14	T(L=16) + HB1	(+)	17.236	-0.008	17.175	57.935	0.299	57.935	7.473
		(-)	-3.423	-0.020	9.245	24.178	-7.336	24.178	-0.299
15	T(L=21) + HB1	(+)	19.837	-0.008	17.175	57.935	0.299	57.935	7.974
		(-)	-5.656	-0.020	9.245	24.178	-7.974	24.178	-0.299
16	T(L=26) + HB1	(+)	17.236	-0.008	18.135	57.935	0.299	57.935	7.473
		(-)	-2.967	-0.020	9.245	24.178	-7.336	24.178	-0.299
17	T(L= 6) + HB2	(+)	24.367	-0.005	18.028	63.573	1.684	63.573	9.043
		(-)	-0.416	-0.022	6.481	14.115	-9.043	14.115	-1.684
18	T(L=11) + HB2	(+)	27.784	-0.006	15.359	51.758	1.121	51.758	6.727
		(-)	0.312	-0.018	7.208	17.503	-6.615	17.503	-1.121
19	T(L=16) + HB2	(+)	20.639	-0.006	15.220	51.641	1.045	51.641	6.727
		(-)	-0.020	-0.018	7.289	17.884	-6.590	17.884	-1.045
20	T(L=21) + HB2	(+)	23.240	-0.006	15.220	51.641	1.045	51.641	7.228
		(-)	-2.253	-0.018	7.289	17.884	-7.228	17.884	-1.045
21	T(L=26) + HB2	(+)	20.639	-0.006	16.180	51.641	1.045	51.641	6.727
		(-)	0.436	-0.018	7.289	17.884	-6.590	17.884	-1.045

NO.	LOAD NAME		M-Y(T,M) 25 - 14	Q-Z(T) 25 - 14	M-Y(T,M) 25 - 36	Q-Z(T) 25 - 36	M-Y(T,M) 36 - 25	Q-Z(T) 36 - 25	M-Y(T,M) 36 - 47
1			10.452	0.101	10.442	-1.806	-0.825	3.028	-0.825
2			56.853	5.534	56.796	-6.898	-2.473	18.532	-2.473
3	HA1	(+)	74.745	14.980	74.673	13.017	41.524	16.445	41.524
		(-)	-12.817	-7.539	-12.817	-11.045	-4.963	-5.116	-4.963
4	HA2	(+)	70.606	15.663	70.539	12.791	39.724	17.663	39.724
		(-)	-28.610	-7.146	-28.585	-12.596	-32.879	-5.406	-32.879
5	(L= 6)	(+)	61.186	5.474	61.124	1.980	23.385	11.524	23.385
		(-)	-21.267	-6.369	-21.240	-10.937	-26.014	-0.485	-26.014
6	(L=11)	(+)	41.022	4.571	40.982	2.349	16.670	8.087	16.670
		(-)	-14.490	-5.792	-14.472	-8.607	-16.269	-0.752	-16.269
7	(L=16)	(+)	41.022	4.495	40.982	2.210	16.433	8.168	16.433
		(-)	-13.726	-5.547	-13.710	-9.004	-15.935	-0.618	-15.935
8	(L=21)	(+)	41.022	4.495	40.982	2.497	16.433	8.732	16.433
		(-)	-13.726	-5.047	-13.710	-9.620	-15.948	-0.562	-15.948
9	(L=26)	(+)	41.022	4.495	40.982	2.210	16.433	8.364	16.433
		(-)	-13.726	-5.256	-13.710	-9.084	-15.935	-0.562	-15.935
10	HB1		24.280	8.961	24.247	6.184	18.061	5.383	18.061
11	HB2		17.325	8.499	17.304	4.198	4.677	6.160	4.677
12	T(L= 6) + HB1	(+)	85.466	14.435	85.372	8.164	41.446	16.907	41.446
		(-)	3.013	2.592	3.008	-4.754	-7.953	4.898	-7.953
13	T(L=11) + HB1	(+)	65.302	13.532	65.229	8.533	34.730	13.470	34.730
		(-)	9.790	3.169	9.776	-2.424	1.791	4.631	1.791
14	T(L=16) + HB1	(+)	65.302	13.456	65.229	8.393	34.494	13.551	34.494
		(-)	10.554	3.414	10.537	-2.820	2.125	4.765	2.125
15	T(L=21) + HB1	(+)	65.302	13.456	65.229	8.680	34.494	14.115	34.494
		(-)	10.554	3.915	10.537	-3.437	2.113	4.821	2.113
16	T(L=26) + HB1	(+)	65.302	13.456	65.229	8.393	34.494	13.747	34.494
		(-)	10.554	3.705	10.537	-2.901	2.125	4.821	2.125
17	T(L= 6) + HB2	(+)	78.511	13.972	78.428	6.178	28.063	17.684	28.063
		(-)	-3.942	2.130	-3.936	-6.739	-21.336	5.675	-21.336
18	T(L=11) + HB2	(+)	58.347	13.069	58.285	6.547	21.347	14.247	21.347
		(-)	2.835	2.706	2.832	-4.409	-11.592	5.408	-11.592
19	T(L=16) + HB2	(+)	58.347	12.994	58.285	6.408	21.111	14.328	21.111
		(-)	3.598	2.951	3.594	-4.806	-11.258	5.542	-11.258
20	T(L=21) + HB2	(+)	58.347	12.994	58.285	6.695	21.111	14.892	21.111
		(-)	3.598	3.452	3.594	-5.422	-11.270	5.598	-11.270
21	T(L=26) + HB2	(+)	58.347	12.994	58.285	6.408	21.111	14.524	21.111
		(-)	3.598	3.243	3.594	-4.886	-11.258	5.598	-11.258