

Output Tulangan Longitudinal Daerah Tumpuan i Balok Eksterior

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CONCRETE BEAM DESIGN OUTPUT (UBC97)

FLEXURAL AND TORSION DESIGN OF BEAM-TYPE ELEMENTS

STORY	BEAM	SECTION	STATION	<-----	-----	REQUIRED REI	NFORCIN	G-----	----->
ID	BAY	ID	ID	TOP	COMBO	BOTTOM	COMBO	TORSION	COMBO
LANTA15	B34	B400X700	400	3853.796	COMB4	1791.624	COMB4	1.281	COMB4
LANTA15	B38	B400X700	400	3552.629	COMB4	1754.1	COMB4	1.205	COMB8
LANTA15	B39	B400X700	400	3489.711	COMB4	1750.52	COMB4	1.186	COMB8
LANTA15	B455	B400X700	400	3488.522	COMB4	1679.347	COMB4	1.207	COMB8
LANTA15	B82	B400X700	400	3199.803	COMB4	1669.215	COMB4	1.209	COMB4
LANTA15	B34	B400X700	875	3098.255	COMB4	1665.693	COMB6	1.281	COMB4
LANTA15	B454	B400X700	400	3048.197	COMB4	1662.517	COMB6	1.305	COMB4
LANTA15	B45	B400X700	400	3017.447	COMB4	1635.285	COMB6	1.351	COMB4
LANTA15	B130	B400X700	400	2998.378	COMB4	1634.769	COMB4	1.269	COMB4
LANTA15	B136	B400X700	400	2983.229	COMB4	1602.411	COMB4	1.259	COMB2
LANTA15	B151	B400X700	400	2972.807	COMB4	1591.918	COMB4	1.129	COMB8
LANTA15	B135	B400X700	400	2951.53	COMB4	1567.602	COMB4	1.259	COMB8
LANTA15	B132	B400X700	400	2950.241	COMB4	1549.956	COMB4	1.337	COMB4
LANTA15	B133	B400X700	400	2881.846	COMB4	1508.672	COMB4	1.236	COMB7
LANTA15	B134	B400X700	400	2848.4	COMB4	1490.565	COMB4	1.251	COMB8
LANTA15	B38	B400X700	875	2841.914	COMB4	1490.263	COMB6	1.205	COMB8
LANTA15	B83	B400X700	400	2834.246	COMB4	1490.249	COMB4	1.223	COMB8
LANTA15	B455	B400X700	875	2789.536	COMB4	1465.601	COMB6	1.207	COMB8
LANTA15	B39	B400X700	875	2787.93	COMB4	1458.165	COMB6	1.186	COMB8
LANTA15	B46	B400X700	400	2732.737	COMB4	1453.635	COMB6	1.315	COMB4
LANTA15	B162	B400X700	400	2721.638	COMB4	1451.728	COMB4	1.046	COMB6
LANTA15	B69	B400X700	400	2691.917	COMB4	1424.767	COMB6	1.377	COMB4
LANTA15	B159	B400X700	400	2677.832	COMB4	1419.622	COMB6	1.259	COMB7
LANTA15	B70	B400X700	400	2650.54	COMB4	1416.49	COMB6	1.259	COMB8
LANTA15	B131	B400X700	400	2590.649	COMB4	1412.889	COMB6	1.231	COMB8
LANTA15	B163	B400X700	400	2553.861	COMB4	1411.19	COMB6	1.259	COMB7
LANTA15	B82	B400X700	875	2552.669	COMB4	1410.2	COMB6	1.209	COMB4
LANTA15	B161	B400X700	400	2552.408	COMB4	1408.254	COMB6	1.259	COMB7
LANTA15	B84	B400X700	400	2530.087	COMB4	1406.058	COMB4	1.222	COMB8
LANTA15	B160	B400X700	400	2487.635	COMB4	1405.201	COMB6	1.259	COMB7
LANTA15	B45	B400X700	875	2437.454	COMB4	1401.049	COMB6	1.351	COMB4

Output Tulangan Longitudinal Daerah Lapangan Balok Eksterior

STORY	BEAM	SECTION	STATION	-----REQUIRED REINFORCING----->					
				ID	BAY	ID	ID	TOP	COMBO
LANTA15	B34	B400X700	2300	1221.934	COMB4	1464.796	COMB6	1.281	COMB4
LANTA15	B38	B400X700	2300	1069.623	COMB4	1444.379	COMB6	1.205	COMB8
LANTA15	B39	B400X700	2300	1060.798	COMB6	1417.88	COMB4	1.186	COMB8
LANTA15	B45	B400X700	2300	1047.71	COMB6	1407.438	COMB4	1.351	COMB4
LANTA15	B46	B400X700	2300	965.733	COMB6	1383.969	COMB4	1.315	COMB4
LANTA15	B47	B400X700	2300	933.709	COMB6	1358.592	COMB4	1.355	COMB4
LANTA15	B70	B400X700	2300	901.89	COMB6	1349.657	COMB4	1.259	COMB8
LANTA15	B71	B400X700	2300	889.425	COMB4	1348.918	COMB4	1.259	COMB8
LANTA15	B82	B400X700	2300	885.868	COMB4	1337.181	COMB6	1.209	COMB4
LANTA15	B83	B400X700	2300	885.868	COMB6	1321.219	COMB6	1.223	COMB8
LANTA15	B84	B400X700	2300	885.868	COMB6	1293.806	COMB4	1.222	COMB8
LANTA15	B130	B400X700	2300	885.868	COMB6	1283.101	COMB4	1.269	COMB4
LANTA15	B131	B400X700	2300	885.868	COMB6	1280.671	COMB4	1.231	COMB8
LANTA15	B132	B400X700	2300	885.868	COMB6	1277.005	COMB4	1.337	COMB4
LANTA15	B133	B400X700	2300	885.868	COMB6	1265.602	COMB4	1.236	COMB7
LANTA15	B134	B400X700	2300	885.868	COMB6	1262.375	COMB4	1.251	COMB8
LANTA15	B135	B400X700	2300	885.868	COMB6	1261.739	COMB4	1.259	COMB8
LANTA15	B136	B400X700	2300	885.868	COMB6	1251.203	COMB4	1.259	COMB2
LANTA15	B151	B400X700	2300	885.868	COMB6	1249.108	COMB4	1.129	COMB8
LANTA15	B159	B400X700	2300	885.868	COMB6	1246.586	COMB4	1.259	COMB7
LANTA15	B160	B400X700	2300	885.868	COMB6	1233.627	COMB4	1.259	COMB7
LANTA15	B161	B400X700	2300	885.868	COMB6	1229.625	COMB4	1.259	COMB7
LANTA15	B163	B400X700	2300	885.868	COMB6	1224.85	COMB4	1.259	COMB7
LANTA15	B164	B400X700	2300	885.868	COMB4	1205.675	COMB6	1.259	COMB2
LANTA15	B348	B400X700	2300	885.868	COMB4	1196.419	COMB4	0.969	COMB6
LANTA15	B349	B400X700	2300	885.868	COMB6	1192.191	COMB4	1.208	COMB8
LANTA15	B454	B400X700	2300	885.868	COMB6	1190.832	COMB4	1.305	COMB4
LANTA15	B455	B400X700	2300	885.868	COMB6	1189.098	COMB4	1.207	COMB8
LANTA15	B69	B400X700	2373.6	885.868	COMB6	1183.337	COMB4	1.377	COMB4
LANTA15	B162	B400X700	2380	885.868	COMB4	1179.255	COMB4	1.046	COMB6
LANTA15	B34	B400X700	2775	885.868	COMB6	1173.881	COMB4	1.281	COMB4
LANTA15	B38	B400X700	2775	885.868	COMB6	1161.87	COMB4	1.205	COMB8
LANTA15	B39	B400X700	2775	885.868	COMB6	1155.242	COMB4	1.186	COMB8
LANTA15	B45	B400X700	2775	885.868	COMB4	1154.457	COMB4	1.351	COMB4
LANTA15	B46	B400X700	2775	885.868	COMB4	1144.842	COMB4	1.315	COMB4
LANTA15	B47	B400X700	2775	885.868	COMB4	1137.879	COMB4	1.355	COMB4
LANTA15	B70	B400X700	2775	885.868	COMB4	1126.664	COMB4	1.259	COMB8
LANTA15	B71	B400X700	2775	885.868	COMB4	1123.477	COMB4	1.259	COMB8
LANTA15	B82	B400X700	2775	885.868	COMB4	1119.282	COMB6	1.209	COMB4
LANTA15	B83	B400X700	2775	885.868	COMB4	1116.169	COMB6	1.223	COMB8
LANTA15	B84	B400X700	2775	885.868	COMB4	1105.542	COMB4	1.222	COMB8
LANTA15	B130	B400X700	2775	885.868	COMB4	1102.117	COMB4	1.269	COMB4
LANTA15	B131	B400X700	2775	885.868	COMB4	1096.476	COMB4	1.231	COMB8

Output Tulangan Longitudinal Daerah Tumpuan j Balok Eksterior

STORY	BEAM	SECTION	STATION	-----REQUIRED REINFORCING----->					
				TOP	COMBO	BOTTOM	COMBO	TORSION	COMBO
LANTA15	B69	B400X700	5734	3722.993	COMB4	2039.675	COMB4	1.259	COMB6
LANTA15	B69	B400X700	5734	3340.331	COMB4	1927.185	COMB4	1.452	COMB4
LANTA15	B132	B400X700	6040	3222.005	COMB4	1920.524	COMB4	1.273	COMB4
LANTA15	B164	B400X700	6066.667	3095.149	COMB4	1890.985	COMB4	1.071	COMB6
LANTA15	B34	B400X700	6100	3058.746	COMB6	1887.869	COMB4	1.219	COMB8
LANTA15	B38	B400X700	6100	3024.654	COMB6	1798.937	COMB4	1.199	COMB8
LANTA15	B39	B400X700	6100	3005.832	COMB6	1792.227	COMB4	1.176	COMB8
LANTA15	B45	B400X700	6100	2992.086	COMB6	1775.913	COMB4	1.382	COMB4
LANTA15	B46	B400X700	6100	2937.495	COMB6	1768.996	COMB4	1.375	COMB4
LANTA15	B47	B400X700	6100	2842.867	COMB6	1735.805	COMB4	1.456	COMB4
LANTA15	B70	B400X700	6100	2785.485	COMB6	1656.153	COMB4	1.259	COMB8
LANTA15	B71	B400X700	6100	2716.522	COMB6	1647.767	COMB4	1.237	COMB8
LANTA15	B82	B400X700	6100	2666.549	COMB4	1645.409	COMB4	1.22	COMB8
LANTA15	B83	B400X700	6100	2665.959	COMB4	1630.749	COMB4	1.233	COMB8
LANTA15	B84	B400X700	6100	2649.484	COMB6	1592.058	COMB4	1.2	COMB4
LANTA15	B130	B400X700	6100	2624.331	COMB4	1570.277	COMB4	1.216	COMB8
LANTA15	B131	B400X700	6100	2622.976	COMB6	1555.306	COMB4	1.242	COMB4
LANTA15	B133	B400X700	6100	2615.698	COMB6	1553.691	COMB4	1.236	COMB7
LANTA15	B134	B400X700	6100	2610.648	COMB6	1532.462	COMB4	1.275	COMB4
LANTA15	B135	B400X700	6100	2579.281	COMB6	1531.143	COMB4	1.207	COMB8
LANTA15	B136	B400X700	6100	2572.232	COMB4	1526.965	COMB4	1.259	COMB1
LANTA15	B151	B400X700	6100	2562.146	COMB4	1518.433	COMB4	1.198	COMB8
LANTA15	B159	B400X700	6100	2532.614	COMB6	1484.501	COMB4	1.259	COMB7
LANTA15	B160	B400X700	6100	2507.068	COMB6	1480.155	COMB4	1.259	COMB7
LANTA15	B161	B400X700	6100	2477.323	COMB6	1478.166	COMB4	1.259	COMB7
LANTA15	B162	B400X700	6100	2470.141	COMB6	1462.513	COMB4	0.951	COMB6
LANTA15	B163	B400X700	6100	2420.914	COMB6	1446.402	COMB4	1.259	COMB7
LANTA15	B348	B400X700	6100	2417.077	COMB6	1434.042	COMB6	0.86	COMB6
LANTA15	B349	B400X700	6100	2410.437	COMB4	1432.904	COMB6	1.21	COMB4
LANTA15	B454	B400X700	6100	2400.814	COMB6	1431.563	COMB4	1.243	COMB4
LANTA15	B455	B400X700	6100	2386.181	COMB6	1431.287	COMB4	1.198	COMB8
LANTA15	B69	B400X700	6187.2	2385.031	COMB6	1425.463	COMB4	1.452	COMB4
LANTA15	B132	B400X700	6530	2367.948	COMB6	1423.691	COMB4	1.273	COMB4
LANTA15	B164	B400X700	6533.333	2327.028	COMB4	1422.932	COMB4	1.071	COMB6
LANTA15	B34	B400X700	6575	2276.392	COMB6	1411.891	COMB4	1.219	COMB8
LANTA15	B38	B400X700	6575	2241.252	COMB6	1411.762	COMB4	1.199	COMB8
LANTA15	B39	B400X700	6575	2230.246	COMB6	1407.047	COMB4	1.176	COMB8
LANTA15	B45	B400X700	6575	2147.637	COMB6	1404.714	COMB4	1.382	COMB4
LANTA15	B46	B400X700	6575	2123.788	COMB4	1404.316	COMB6	1.375	COMB4
LANTA15	B47	B400X700	6575	2103.379	COMB4	1392.534	COMB6	1.456	COMB4
LANTA15	B70	B400X700	6575	2101.454	COMB6	1392.113	COMB4	1.259	COMB8
LANTA15	B71	B400X700	6575	2071.665	COMB4	1377.662	COMB6	1.237	COMB8

Output Tulangan Transversal Daerah Tumpuan i Balok Eksterior

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CONCRETE BEAM DESIGN OUTPUT (UBC97)

TORSION AND SHEAR DESIGN OF BEAM-TYPE ELEMENTS

STORY ID	BEAM BAY	SECTION ID	STATION ID	<-----REQUIRED REINFORCING----->			
				TORSION	COMBO	SHEAR	COMBO
LANTAI5	B34	B400X700	400	1.244	COMB4	3.158	COMB4
LANTAI5	B38	B400X700	400	1.244	COMB4	3.083	COMB4
LANTAI5	B39	B400X700	400	1.244	COMB4	2.994	COMB4
LANTAI5	B45	B400X700	400	1.244	COMB4	2.95	COMB4
LANTAI5	B46	B400X700	400	1.225	COMB4	2.922	COMB4
LANTAI5	B47	B400X700	400	1.225	COMB4	2.909	COMB4
LANTAI5	B69	B400X700	400	1.225	COMB4	2.893	COMB4
LANTAI5	B70	B400X700	400	1.225	COMB4	2.875	COMB4
LANTAI5	B71	B400X700	400	1.221	COMB4	2.846	COMB4
LANTAI5	B82	B400X700	400	1.221	COMB4	2.833	COMB4
LANTAI5	B83	B400X700	400	1.221	COMB4	2.82	COMB4
LANTAI5	B84	B400X700	400	1.221	COMB4	2.786	COMB4
LANTAI5	B130	B400X700	400	1.208	COMB4	2.758	COMB4
LANTAI5	B131	B400X700	400	1.208	COMB4	2.745	COMB4
LANTAI5	B132	B400X700	400	1.208	COMB4	2.744	COMB4
LANTAI5	B133	B400X700	400	1.208	COMB4	2.709	COMB4
LANTAI5	B134	B400X700	400	1.188	COMB4	2.685	COMB4
LANTAI5	B135	B400X700	400	1.188	COMB4	2.675	COMB4
LANTAI5	B136	B400X700	400	1.188	COMB4	2.664	COMB4
LANTAI5	B151	B400X700	400	1.188	COMB4	2.657	COMB4
LANTAI5	B159	B400X700	400	1.179	COMB4	2.656	COMB4
LANTAI5	B160	B400X700	400	1.179	COMB4	2.65	COMB4
LANTAI5	B161	B400X700	400	1.179	COMB4	2.644	COMB4
LANTAI5	B162	B400X700	400	1.179	COMB4	2.621	COMB4
LANTAI5	B163	B400X700	400	1.158	COMB4	2.608	COMB4
LANTAI5	B164	B400X700	400	1.158	COMB4	2.589	COMB4
LANTAI5	B348	B400X700	400	1.158	COMB4	2.576	COMB4
LANTAI5	B349	B400X700	400	1.158	COMB4	2.572	COMB4
LANTAI5	B454	B400X700	400	1.146	COMB4	2.555	COMB4
LANTAI5	B455	B400X700	400	1.146	COMB4	2.55	COMB4
LANTAI5	B34	B400X700	875	1.146	COMB4	2.549	COMB4
LANTAI5	B38	B400X700	875	1.146	COMB4	2.546	COMB4
LANTAI5	B39	B400X700	875	1.092	COMB4	2.517	COMB4
LANTAI5	B45	B400X700	875	1.092	COMB4	2.516	COMB4
LANTAI5	B46	B400X700	875	1.092	COMB4	2.501	COMB4

Output Tulangan Transversal Daerah Lapangan Balok Eksterior

STORY ID	BEAM BAY	SECTION ID	STATION ID	<-----REQUIRED REINFORCING----->			
				TORSION	COMBO	SHEAR	COMBO
LANTAI5	B34	B400X700	2300	1.316	COMB4	2.782	COMB4
LANTAI5	B38	B400X700	2300	1.316	COMB4	2.679	COMB4
LANTAI5	B39	B400X700	2300	1.316	COMB4	2.629	COMB4
LANTAI5	B45	B400X700	2300	1.316	COMB4	2.589	COMB4
LANTAI5	B46	B400X700	2300	1.249	COMB4	2.574	COMB4
LANTAI5	B47	B400X700	2300	1.249	COMB4	2.545	COMB4
LANTAI5	B70	B400X700	2300	1.249	COMB4	2.539	COMB4
LANTAI5	B71	B400X700	2300	1.249	COMB4	2.532	COMB4
LANTAI5	B82	B400X700	2300	1.244	COMB4	2.511	COMB4
LANTAI5	B83	B400X700	2300	1.244	COMB4	2.506	COMB4
LANTAI5	B84	B400X700	2300	1.243	COMB4	2.471	COMB4
LANTAI5	B130	B400X700	2300	1.243	COMB4	2.462	COMB4
LANTAI5	B131	B400X700	2300	1.243	COMB4	2.447	COMB4
LANTAI5	B132	B400X700	2300	1.243	COMB4	2.444	COMB4
LANTAI5	B133	B400X700	2300	1.225	COMB4	2.442	COMB4
LANTAI5	B134	B400X700	2300	1.225	COMB4	2.429	COMB4
LANTAI5	B135	B400X700	2300	1.225	COMB4	2.41	COMB4
LANTAI5	B136	B400X700	2300	1.225	COMB4	2.397	COMB4
LANTAI5	B151	B400X700	2300	1.225	COMB4	2.381	COMB4
LANTAI5	B159	B400X700	2300	1.221	COMB4	2.362	COMB4
LANTAI5	B160	B400X700	2300	1.221	COMB4	2.352	COMB4
LANTAI5	B161	B400X700	2300	1.221	COMB4	2.341	COMB4
LANTAI5	B163	B400X700	2300	1.221	COMB4	2.339	COMB4
LANTAI5	B164	B400X700	2300	1.221	COMB4	2.339	COMB4
LANTAI5	B348	B400X700	2300	1.208	COMB4	2.312	COMB4
LANTAI5	B349	B400X700	2300	1.208	COMB4	2.303	COMB4
LANTAI5	B454	B400X700	2300	1.208	COMB4	2.298	COMB4
LANTAI5	B455	B400X700	2300	1.208	COMB4	2.292	COMB4
LANTAI5	B69	B400X700	2373.6	1.208	COMB4	2.288	COMB4
LANTAI5	B162	B400X700	2380	1.188	COMB4	2.275	COMB4
LANTAI5	B34	B400X700	2775	1.188	COMB4	2.262	COMB4
LANTAI5	B38	B400X700	2775	1.188	COMB4	2.262	COMB4
LANTAI5	B39	B400X700	2775	1.188	COMB4	2.251	COMB4
LANTAI5	B45	B400X700	2775	1.188	COMB4	2.25	COMB4
LANTAI5	B46	B400X700	2775	1.179	COMB4	2.238	COMB4
LANTAI5	B47	B400X700	2775	1.179	COMB4	2.21	COMB4
LANTAI5	B70	B400X700	2775	1.179	COMB4	2.208	COMB4
LANTAI5	B71	B400X700	2775	1.179	COMB4	2.208	COMB4
LANTAI5	B82	B400X700	2775	1.179	COMB4	2.206	COMB4
LANTAI5	B83	B400X700	2775	1.158	COMB4	2.201	COMB4
LANTAI5	B84	B400X700	2775	1.158	COMB4	2.2	COMB4
LANTAI5	B130	B400X700	2775	1.158	COMB4	2.197	COMB4
LANTAI5	B131	B400X700	2775	1.158	COMB4	2.186	COMB4

Output Tulangan Transversal Daerah Tumpuan j Balok Eksterior

STORY ID	BEAM BAY	SECTION ID	STATION ID	<-----REQUIRED REINFORCING----->			
				TORSION	COMBO	SHEAR	COMBO
LANTAI5	B69	B400X700	5734	1.316	COMB4	3.108	COMB4
LANTAI5	B69	B400X700	5734	1.316	COMB4	3.033	COMB4
LANTAI5	B132	B400X700	6040	1.316	COMB4	2.963	COMB4
LANTAI5	B164	B400X700	6066.667	1.316	COMB4	2.945	COMB4
LANTAI5	B34	B400X700	6100	1.316	COMB4	2.904	COMB4
LANTAI5	B38	B400X700	6100	1.312	COMB4	2.844	COMB4
LANTAI5	B39	B400X700	6100	1.312	COMB4	2.827	COMB4
LANTAI5	B45	B400X700	6100	1.312	COMB4	2.787	COMB4
LANTAI5	B46	B400X700	6100	1.312	COMB4	2.777	COMB4
LANTAI5	B47	B400X700	6100	1.312	COMB4	2.743	COMB4
LANTAI5	B70	B400X700	6100	1.312	COMB4	2.732	COMB4
LANTAI5	B71	B400X700	6100	1.249	COMB4	2.73	COMB4
LANTAI5	B82	B400X700	6100	1.249	COMB4	2.717	COMB4
LANTAI5	B83	B400X700	6100	1.249	COMB4	2.702	COMB4
LANTAI5	B84	B400X700	6100	1.249	COMB4	2.676	COMB4
LANTAI5	B130	B400X700	6100	1.249	COMB4	2.641	COMB4
LANTAI5	B131	B400X700	6100	1.243	COMB4	2.62	COMB4
LANTAI5	B133	B400X700	6100	1.243	COMB4	2.617	COMB4
LANTAI5	B134	B400X700	6100	1.243	COMB4	2.613	COMB4
LANTAI5	B135	B400X700	6100	1.243	COMB4	2.602	COMB4
LANTAI5	B136	B400X700	6100	1.243	COMB4	2.601	COMB4
LANTAI5	B151	B400X700	6100	1.152	COMB4	2.6	COMB4
LANTAI5	B159	B400X700	6100	1.152	COMB4	2.598	COMB4
LANTAI5	B160	B400X700	6100	1.152	COMB4	2.584	COMB4
LANTAI5	B161	B400X700	6100	1.152	COMB4	2.578	COMB4
LANTAI5	B162	B400X700	6100	1.152	COMB4	2.569	COMB4
LANTAI5	B163	B400X700	6100	1.151	COMB4	2.566	COMB4
LANTAI5	B348	B400X700	6100	1.151	COMB4	2.527	COMB4
LANTAI5	B349	B400X700	6100	1.151	COMB4	2.526	COMB4
LANTAI5	B454	B400X700	6100	1.151	COMB4	2.524	COMB4
LANTAI5	B455	B400X700	6100	1.151	COMB4	2.522	COMB4
LANTAI5	B69	B400X700	6187.2	1.123	COMB4	2.519	COMB4
LANTAI5	B132	B400X700	6530	1.123	COMB4	2.519	COMB4
LANTAI5	B164	B400X700	6533.333	1.123	COMB4	2.512	COMB4
LANTAI5	B34	B400X700	6575	1.123	COMB4	2.507	COMB4
LANTAI5	B38	B400X700	6575	1.123	COMB4	2.494	COMB4
LANTAI5	B39	B400X700	6575	1.122	COMB4	2.477	COMB4
LANTAI5	B45	B400X700	6575	1.122	COMB4	2.468	COMB4
LANTAI5	B46	B400X700	6575	1.122	COMB4	2.467	COMB4
LANTAI5	B47	B400X700	6575	1.122	COMB4	2.441	COMB4
LANTAI5	B70	B400X700	6575	1.122	COMB4	2.438	COMB4
LANTAI5	B71	B400X700	6575	1.093	COMB4	2.437	COMB4

Output Tulangan Longitudinal Daerah Tumpuan i Balok Interior X

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CONCRETE BEAM DESIGN OUTPUT (UBC97)

FLEXURAL AND TORSION DESIGN OF BEAM-TYPE ELEMENTS

STORY	BEAM	SECTION	STATION	-----REQUIRED REINFORCING----->					
				ID	BAY	ID	ID	TOP	COMBO
LANTA15	B66	B400X700	0	3530.273	COMB2	1652.851	COMB2	1.259	COMB8
LANTA15	B67	B400X700	0	3526.93	COMB2	1651.405	COMB2	1.259	COMB6
LANTA15	B68	B400X700	0	3445.466	COMB4	1616.082	COMB4	1.259	COMB6
LANTA15	B48	B400X700	400	3392.667	COMB4	1593.109	COMB4	1.259	COMB6
LANTA15	B49	B400X700	400	3342.141	COMB4	1571.068	COMB4	1.259	COMB4
LANTA15	B50	B400X700	400	3285.52	COMB4	1546.3	COMB4	1.259	COMB4
LANTA15	B54	B400X700	400	3271.315	COMB4	1540.076	COMB4	1.259	COMB6
LANTA15	B55	B400X700	400	3264.778	COMB4	1537.21	COMB4	1.259	COMB4
LANTA15	B57	B400X700	400	3213.7	COMB4	1514.783	COMB4	1.259	COMB4
LANTA15	B58	B400X700	400	3204.301	COMB4	1510.65	COMB4	1.259	COMB4
LANTA15	B60	B400X700	400	3198.539	COMB4	1508.116	COMB4	1.259	COMB8
LANTA15	B61	B400X700	400	3184.58	COMB4	1501.972	COMB4	1.259	COMB4
LANTA15	B62	B400X700	400	3159.715	COMB4	1491.018	COMB4	1.259	COMB4
LANTA15	B63	B400X700	400	3153.704	COMB4	1488.368	COMB4	1.259	COMB6
LANTA15	B64	B400X700	400	3124.278	COMB4	1475.385	COMB4	1.259	COMB6
LANTA15	B65	B400X700	400	3115.383	COMB4	1471.456	COMB6	1.259	COMB6
LANTA15	B137	B400X700	400	3106.497	COMB4	1467.53	COMB4	1.259	COMB6
LANTA15	B138	B400X700	400	3078.068	COMB4	1454.957	COMB4	1.259	COMB2
LANTA15	B139	B400X700	400	3077.629	COMB4	1454.763	COMB4	1.259	COMB1
LANTA15	B140	B400X700	400	3076.968	COMB4	1454.47	COMB4	1.259	COMB6
LANTA15	B141	B400X700	400	3069.191	COMB4	1451.028	COMB4	1.259	COMB2
LANTA15	B142	B400X700	400	3059.816	COMB4	1446.876	COMB4	1.259	COMB2
LANTA15	B143	B400X700	400	3045.192	COMB4	1440.396	COMB4	1.259	COMB2
LANTA15	B144	B400X700	400	3034.595	COMB4	1435.697	COMB4	1.259	COMB6
LANTA15	B145	B400X700	400	3033.13	COMB4	1435.048	COMB4	1.259	COMB6
LANTA15	B146	B400X700	400	2962.824	COMB4	1403.812	COMB4	1.259	COMB6
LANTA15	B147	B400X700	400	2949.731	COMB4	1397.984	COMB4	1.259	COMB6
LANTA15	B148	B400X700	400	2938.605	COMB4	1393.028	COMB4	1.259	COMB6
LANTA15	B149	B400X700	400	2917.911	COMB4	1383.804	COMB4	1.259	COMB6
LANTA15	B150	B400X700	400	2898.801	COMB4	1375.277	COMB4	1.259	COMB6
LANTA15	B152	B400X700	400	2800.355	COMB4	1331.23	COMB4	1.259	COMB7
LANTA15	B153	B400X700	400	2740.484	COMB4	1269.72	COMB4	1.259	COMB7
LANTA15	B154	B400X700	400	2737.726	COMB4	1265.499	COMB4	1.259	COMB7

Output Tulangan Longitudinal Daerah Lapangan Balok Interior X

STORY	BEAM	SECTION	STATION	-----REQUIRED REINFORCING----->					
				ID	BAY	ID	ID	TOP	COMBO
LANTAI5	B48	B400X700	2300	885.868	COMB6	2450.05	COMB4	1.953	COMB6
LANTAI5	B49	B400X700	2300	885.868	COMB6	2443.04	COMB4	1.953	COMB4
LANTAI5	B50	B400X700	2300	885.868	COMB6	2377.048	COMB4	1.953	COMB4
LANTAI5	B54	B400X700	2300	885.868	COMB6	2369.34	COMB4	1.953	COMB6
LANTAI5	B55	B400X700	2300	885.868	COMB6	2361.137	COMB4	1.347	COMB4
LANTAI5	B57	B400X700	2300	885.868	COMB6	2360.626	COMB4	1.259	COMB4
LANTAI5	B58	B400X700	2300	885.868	COMB6	2121.541	COMB4	1.259	COMB4
LANTAI5	B60	B400X700	2300	885.868	COMB6	2102.515	COMB4	1.259	COMB8
LANTAI5	B61	B400X700	2300	885.868	COMB6	2062.191	COMB4	1.259	COMB4
LANTAI5	B62	B400X700	2300	885.868	COMB6	2042.694	COMB4	1.259	COMB4
LANTAI5	B63	B400X700	2300	885.868	COMB6	2042.232	COMB4	1.259	COMB6
LANTAI5	B64	B400X700	2300	885.868	COMB6	2040.392	COMB4	1.259	COMB6
LANTAI5	B65	B400X700	2300	885.868	COMB6	1980.743	COMB4	1.259	COMB6
LANTAI5	B137	B400X700	2300	885.868	COMB6	1978.13	COMB4	1.259	COMB6
LANTAI5	B138	B400X700	2300	885.868	COMB6	1977.657	COMB4	1.259	COMB2
LANTAI5	B139	B400X700	2300	885.868	COMB6	1973.262	COMB4	1.259	COMB1
LANTAI5	B140	B400X700	2300	885.868	COMB6	1972.226	COMB4	1.259	COMB6
LANTAI5	B141	B400X700	2300	885.868	COMB6	1967.775	COMB4	1.259	COMB2
LANTAI5	B142	B400X700	2300	885.868	COMB6	1827.179	COMB4	1.259	COMB2
LANTAI5	B143	B400X700	2300	885.868	COMB6	1807.378	COMB4	1.259	COMB2
LANTAI5	B144	B400X700	2300	885.868	COMB6	1778.245	COMB4	1.259	COMB6
LANTAI5	B145	B400X700	2300	885.868	COMB6	1763.127	COMB4	1.259	COMB6
LANTAI5	B146	B400X700	2300	885.868	COMB6	1761.93	COMB4	1.259	COMB6
LANTAI5	B147	B400X700	2300	885.868	COMB6	1761.81	COMB4	1.259	COMB6
LANTAI5	B148	B400X700	2300	885.868	COMB6	1761.741	COMB4	1.259	COMB6
LANTAI5	B149	B400X700	2300	885.868	COMB6	1747.817	COMB4	1.259	COMB6
LANTAI5	B150	B400X700	2300	885.868	COMB6	1745.692	COMB4	1.259	COMB6
LANTAI5	B152	B400X700	2300	885.868	COMB6	1743.601	COMB4	1.259	COMB7
LANTAI5	B153	B400X700	2300	885.868	COMB6	1742.837	COMB4	1.259	COMB7
LANTAI5	B154	B400X700	2300	885.868	COMB6	1741.866	COMB4	1.259	COMB7
LANTAI5	B155	B400X700	2300	885.868	COMB6	1739.267	COMB4	1.259	COMB7
LANTAI5	B156	B400X700	2300	885.868	COMB6	1734.437	COMB4	1.259	COMB7
LANTAI5	B157	B400X700	2300	885.868	COMB6	1727.522	COMB4	1.259	COMB7
LANTAI5	B66	B400X700	2333.333	885.868	COMB2	1714.985	COMB2	1.259	COMB8
LANTAI5	B67	B400X700	2333.333	885.868	COMB2	1709.15	COMB2	1.259	COMB6
LANTAI5	B68	B400X700	2333.333	885.868	COMB4	1708.604	COMB2	1.259	COMB6
LANTAI5	B48	B400X700	2775	885.868	COMB6	1704.525	COMB4	1.259	COMB6
LANTAI5	B49	B400X700	2775	885.868	COMB4	1703.386	COMB4	1.259	COMB4
LANTAI5	B50	B400X700	2775	885.868	COMB6	1702.233	COMB4	1.259	COMB4
LANTAI5	B54	B400X700	2775	885.868	COMB4	1699.356	COMB4	1.259	COMB6
LANTAI5	B55	B400X700	2775	885.868	COMB4	1699.177	COMB4	1.259	COMB4
LANTAI5	B57	B400X700	2775	885.868	COMB4	1696.719	COMB4	1.259	COMB4

Output Tulangan Longitudinal Daerah Tumpuan j Balok Interior X

STORY	BEAM	SECTION	STATION	<-----REQUIRED REINFORCING----->					
ID	BAY	ID	ID	TOP	COMBO	BOTTOM	COMBO	TORSION	COMBO
LANTAI5	B63	B400X700	5729.167	885.868	COMB4	1368.646	COMB4	1.347	COMB4
LANTAI5	B66	B400X700	6066.667	885.868	COMB2	439.02	COMB2	1.259	COMB6
LANTAI5	B67	B400X700	6066.667	885.868	COMB2	632.159	COMB2	1.259	COMB6
LANTAI5	B68	B400X700	6066.667	885.868	COMB4	885.868	COMB4	1.255	COMB6
LANTAI5	B48	B400X700	6100	885.868	COMB6	1170.647	COMB4	0.92	COMB4
LANTAI5	B49	B400X700	6100	885.868	COMB6	1141.786	COMB4	0.953	COMB4
LANTAI5	B50	B400X700	6100	885.868	COMB6	1078.622	COMB4	0.993	COMB4
LANTAI5	B54	B400X700	6100	885.868	COMB6	1111.812	COMB4	0.871	COMB4
LANTAI5	B55	B400X700	6100	885.868	COMB6	1090.951	COMB4	0.901	COMB4
LANTAI5	B57	B400X700	6100	885.868	COMB6	1111.886	COMB4	0.883	COMB4
LANTAI5	B58	B400X700	6100	885.868	COMB6	1060.698	COMB4	0.878	COMB4
LANTAI5	B60	B400X700	6100	885.868	COMB6	1126.644	COMB4	1.259	COMB8
LANTAI5	B61	B400X700	6100	885.868	COMB6	1062.886	COMB4	0.861	COMB4
LANTAI5	B62	B400X700	6100	885.868	COMB6	1003.68	COMB4	0.958	COMB4
LANTAI5	B64	B400X700	6100	885.868	COMB6	1148.868	COMB4	0.804	COMB4
LANTAI5	B65	B400X700	6100	885.868	COMB6	986.324	COMB4	0.855	COMB4
LANTAI5	B137	B400X700	6100	885.868	COMB6	1242.458	COMB4	0.884	COMB6
LANTAI5	B138	B400X700	6100	885.868	COMB6	1079.891	COMB4	1.259	COMB2
LANTAI5	B140	B400X700	6100	885.868	COMB6	1072.608	COMB4	0.819	COMB6
LANTAI5	B141	B400X700	6100	885.868	COMB6	1084.659	COMB4	1.259	COMB2
LANTAI5	B142	B400X700	6100	885.868	COMB6	1120.929	COMB4	1.259	COMB2
LANTAI5	B143	B400X700	6100	885.868	COMB6	1142.914	COMB4	1.259	COMB2
LANTAI5	B144	B400X700	6100	885.868	COMB6	1243.694	COMB4	0.911	COMB6
LANTAI5	B145	B400X700	6100	885.868	COMB6	1083.049	COMB4	0.95	COMB4
LANTAI5	B147	B400X700	6100	885.868	COMB6	1050.902	COMB4	0.886	COMB6
LANTAI5	B148	B400X700	6100	885.868	COMB6	1082.629	COMB4	0.859	COMB6
LANTAI5	B149	B400X700	6100	885.868	COMB6	1120.664	COMB4	0.835	COMB6
LANTAI5	B150	B400X700	6100	885.868	COMB6	1190.19	COMB4	0.867	COMB4
LANTAI5	B152	B400X700	6100	885.868	COMB6	1104.281	COMB4	1.259	COMB8
LANTAI5	B153	B400X700	6100	885.868	COMB6	1069.827	COMB4	1.259	COMB7
LANTAI5	B154	B400X700	6100	885.868	COMB6	1069.617	COMB4	1.259	COMB7
LANTAI5	B155	B400X700	6100	885.868	COMB6	1060.364	COMB4	1.259	COMB7
LANTAI5	B156	B400X700	6100	885.868	COMB6	1092.671	COMB4	1.259	COMB7
LANTAI5	B157	B400X700	6100	885.868	COMB4	1194.216	COMB4	1.259	COMB1
LANTAI5	B139	B400X700	6116.667	260.206	COMB6	1056.871	COMB4	1.24	COMB6
LANTAI5	B146	B400X700	6116.667	316.593	COMB6	1031.844	COMB4	1.259	COMB2

Output Tulangan Transversal Daerah Tumpuan i Balok Interior X

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CONCRETE BEAM DESIGN OUTPUT (UBC97)

TORSION AND SHEAR DESIGN OF BEAM-TYPE ELEMENTS

STORY ID	BEAM BAY	SECTION ID	STATION ID	<-----REQUIRED REINFORCING----->			
				TORSION	COMBO	SHEAR	COMBO
LANTAI5	B66	B400X700	0	0.825	COMB8	3.091	COMB6
LANTAI5	B67	B400X700	0	0.825	COMB4	3.079	COMB7
LANTAI5	B68	B400X700	0	0.825	COMB4	3.065	COMB8
LANTAI5	B48	B400X700	400	0.825	COMB4	3.043	COMB4
LANTAI5	B49	B400X700	400	0.815	COMB4	3.02	COMB4
LANTAI5	B50	B400X700	400	0.815	COMB4	3.016	COMB6
LANTAI5	B54	B400X700	400	0.815	COMB4	3.008	COMB4
LANTAI5	B55	B400X700	400	0.815	COMB4	2.998	COMB4
LANTAI5	B57	B400X700	400	0.806	COMB4	2.972	COMB4
LANTAI5	B58	B400X700	400	0.806	COMB4	2.971	COMB4
LANTAI5	B60	B400X700	400	0.806	COMB4	2.961	COMB4
LANTAI5	B61	B400X700	400	0.806	COMB4	2.945	COMB4
LANTAI5	B62	B400X700	400	0.783	COMB4	2.943	COMB6
LANTAI5	B63	B400X700	400	0.783	COMB4	2.941	COMB6
LANTAI5	B64	B400X700	400	0.783	COMB4	2.935	COMB4
LANTAI5	B65	B400X700	400	0.783	COMB4	2.934	COMB6
LANTAI5	B137	B400X700	400	0.777	COMB4	2.933	COMB6
LANTAI5	B138	B400X700	400	0.777	COMB4	2.925	COMB4
LANTAI5	B139	B400X700	400	0.777	COMB4	2.923	COMB6
LANTAI5	B140	B400X700	400	0.777	COMB4	2.911	COMB4
LANTAI5	B141	B400X700	400	0.765	COMB4	2.906	COMB4
LANTAI5	B142	B400X700	400	0.765	COMB4	2.905	COMB4
LANTAI5	B143	B400X700	400	0.765	COMB4	2.903	COMB4
LANTAI5	B144	B400X700	400	0.765	COMB4	2.902	COMB6
LANTAI5	B145	B400X700	400	0.762	COMB4	2.894	COMB4
LANTAI5	B146	B400X700	400	0.762	COMB4	2.878	COMB4
LANTAI5	B147	B400X700	400	0.762	COMB4	2.876	COMB4
LANTAI5	B148	B400X700	400	0.762	COMB4	2.874	COMB6
LANTAI5	B149	B400X700	400	0.759	COMB4	2.874	COMB6
LANTAI5	B150	B400X700	400	0.759	COMB4	2.868	COMB6
LANTAI5	B152	B400X700	400	0.759	COMB4	2.867	COMB4
LANTAI5	B153	B400X700	400	0.759	COMB4	2.866	COMB4
LANTAI5	B154	B400X700	400	0.754	COMB4	2.858	COMB4
LANTAI5	B155	B400X700	400	0.754	COMB4	2.85	COMB4
LANTAI5	B156	B400X700	400	0.754	COMB4	2.847	COMB4
LANTAI5	B157	B400X700	400	0.754	COMB4	2.836	COMB4
LANTAI5	B66	B400X700	466.667	0.749	COMB8	2.836	COMB6

Output Tulangan Transversal Daerah Lapangan Balok Interior X

STORY ID	BEAM BAY	SECTION ID	STATION ID	<-----REQUIRED REINFORCING----->			
				TORSION	COMBO	SHEAR	COMBO
LANTAI5	B48	B400X700	2300	1.765	COMB4	2.654	COMB4
LANTAI5	B49	B400X700	2300	1.765	COMB2	2.205	COMB6
LANTAI5	B50	B400X700	2300	1.765	COMB4	2.228	COMB6
LANTAI5	B54	B400X700	2300	1.765	COMB4	2.205	COMB6
LANTAI5	B55	B400X700	2300	1.217	COMB4	2.229	COMB4
LANTAI5	B57	B400X700	2300	1.217	COMB4	2.213	COMB4
LANTAI5	B58	B400X700	2300	1.217	COMB4	2.234	COMB4
LANTAI5	B60	B400X700	2300	1.217	COMB4	2.638	COMB6
LANTAI5	B61	B400X700	2300	1.217	COMB4	2.419	COMB6
LANTAI5	B62	B400X700	2300	1.217	COMB4	2.332	COMB6
LANTAI5	B63	B400X700	2300	1.217	COMB4	2.275	COMB6
LANTAI5	B64	B400X700	2300	0.897	COMB4	2.228	COMB6
LANTAI5	B65	B400X700	2300	0.897	COMB4	2.65	COMB4
LANTAI5	B137	B400X700	2300	0.897	COMB4	2.426	COMB4
LANTAI5	B138	B400X700	2300	0.897	COMB4	2.334	COMB4
LANTAI5	B139	B400X700	2300	0.897	COMB4	2.275	COMB4
LANTAI5	B140	B400X700	2300	0.897	COMB4	2.232	COMB4
LANTAI5	B141	B400X700	2300	0.897	COMB4	2.221	COMB4
LANTAI5	B142	B400X700	2300	0.897	COMB4	2.531	COMB6
LANTAI5	B143	B400X700	2300	0.897	COMB4	2.403	COMB6
LANTAI5	B144	B400X700	2300	0.865	COMB4	2.321	COMB6
LANTAI5	B145	B400X700	2300	0.865	COMB4	2.268	COMB6
LANTAI5	B146	B400X700	2300	0.865	COMB4	2.206	COMB6
LANTAI5	B147	B400X700	2300	0.865	COMB4	2.218	COMB4
LANTAI5	B148	B400X700	2300	0.865	COMB4	2.216	COMB4
LANTAI5	B149	B400X700	2300	0.865	COMB4	2.226	COMB4
LANTAI5	B150	B400X700	2300	0.865	COMB4	2.514	COMB6
LANTAI5	B152	B400X700	2300	0.865	COMB4	2.385	COMB6
LANTAI5	B153	B400X700	2300	0.865	COMB4	2.314	COMB6
LANTAI5	B154	B400X700	2300	0.862	COMB4	2.263	COMB6
LANTAI5	B155	B400X700	2300	0.862	COMB4	2.186	COMB6
LANTAI5	B156	B400X700	2300	0.862	COMB4	2.169	COMB4
LANTAI5	B157	B400X700	2300	0.862	COMB4	2.165	COMB4
LANTAI5	B66	B400X700	2333.333	0.862	COMB4	2.208	COMB4
LANTAI5	B67	B400X700	2333.333	0.862	COMB4	2.541	COMB4
LANTAI5	B68	B400X700	2333.333	0.862	COMB4	2.407	COMB4
LANTAI5	B48	B400X700	2775	0.862	COMB4	2.325	COMB4
LANTAI5	B49	B400X700	2775	0.862	COMB4	2.269	COMB4
LANTAI5	B50	B400X700	2775	0.856	COMB4	2.214	COMB4
LANTAI5	B54	B400X700	2775	0.856	COMB4	2.198	COMB6
LANTAI5	B55	B400X700	2775	0.856	COMB4	2.55	COMB4
LANTAI5	B57	B400X700	2775	0.856	COMB4	2.409	COMB4
LANTAI5	B58	B400X700	2775	0.856	COMB4	2.326	COMB4
LANTAI5	B60	B400X700	2775	0.856	COMB4	2.269	COMB4

Output Tulangan Transversal Daerah Tumpuan j Balok Interior X

STORY	BEAM	SECTION	STATION	<-----REQUIRED REINFORCING----->			
ID	BAY	ID	ID	TORSION	COMBO	SHEAR	COMBO
LANTAI5	B63	B400X700	5729.167	0.732	COMB4	3.111	COMB6
LANTAI5	B66	B400X700	6066.667	0.732	COMB4	3.075	COMB6
LANTAI5	B67	B400X700	6066.667	0.732	COMB4	3.057	COMB6
LANTAI5	B68	B400X700	6066.667	0.727	COMB4	3.041	COMB8
LANTAI5	B48	B400X700	6100	0.727	COMB4	3.023	COMB4
LANTAI5	B49	B400X700	6100	0.727	COMB4	3.011	COMB4
LANTAI5	B50	B400X700	6100	0.727	COMB4	3.005	COMB6
LANTAI5	B54	B400X700	6100	0.727	COMB4	3.003	COMB4
LANTAI5	B55	B400X700	6100	0.693	COMB4	2.995	COMB4
LANTAI5	B57	B400X700	6100	0.693	COMB4	2.989	COMB4
LANTAI5	B58	B400X700	6100	0.693	COMB4	2.987	COMB4
LANTAI5	B60	B400X700	6100	0.693	COMB4	2.978	COMB4
LANTAI5	B61	B400X700	6100	0.693	COMB4	2.972	COMB4
LANTAI5	B62	B400X700	6100	0.692	COMB4	2.964	COMB6
LANTAI5	B64	B400X700	6100	0.692	COMB4	2.958	COMB4
LANTAI5	B65	B400X700	6100	0.692	COMB4	2.957	COMB6
LANTAI5	B137	B400X700	6100	0.692	COMB4	2.948	COMB6
LANTAI5	B138	B400X700	6100	0.692	COMB4	2.944	COMB4
LANTAI5	B140	B400X700	6100	0.672	COMB4	2.943	COMB4
LANTAI5	B141	B400X700	6100	0.672	COMB4	2.943	COMB4
LANTAI5	B142	B400X700	6100	0.672	COMB4	2.936	COMB4
LANTAI5	B143	B400X700	6100	0.672	COMB4	2.928	COMB4
LANTAI5	B144	B400X700	6100	0.672	COMB4	2.923	COMB6
LANTAI5	B145	B400X700	6100	0.671	COMB6	2.911	COMB4
LANTAI5	B147	B400X700	6100	0.671	COMB4	2.907	COMB4
LANTAI5	B148	B400X700	6100	0.671	COMB4	2.906	COMB6
LANTAI5	B149	B400X700	6100	0.671	COMB4	2.904	COMB6
LANTAI5	B150	B400X700	6100	0.671	COMB4	2.897	COMB6
LANTAI5	B152	B400X700	6100	0.655	COMB4	2.891	COMB4
LANTAI5	B153	B400X700	6100	0.655	COMB4	2.889	COMB4
LANTAI5	B154	B400X700	6100	0.655	COMB4	2.881	COMB4
LANTAI5	B155	B400X700	6100	0.655	COMB4	2.876	COMB4
LANTAI5	B156	B400X700	6100	0.655	COMB4	2.865	COMB4
LANTAI5	B157	B400X700	6100	0.654	COMB4	2.864	COMB4
LANTAI5	B139	B400X700	6116.667	0.654	COMB4	2.853	COMB6
LANTAI5	B146	B400X700	6116.667	0.654	COMB4	2.845	COMB4
LANTAI5	B63	B400X700	6183.333	0.653	COMB4	2.839	COMB6
LANTAI5	B66	B400X700	6533.333	0.653	COMB4	2.838	COMB6
LANTAI5	B67	B400X700	6533.333	0.653	COMB4	2.837	COMB6
LANTAI5	B68	B400X700	6533.333	0.653	COMB4	2.833	COMB8
LANTAI5	B48	B400X700	6575	0.653	COMB4	2.831	COMB4
LANTAI5	B49	B400X700	6575	0.649	COMB4	2.819	COMB4
LANTAI5	B50	B400X700	6575	0.649	COMB4	2.818	COMB6

Output Tulangan Longitudinal Daerah Tumpuan i Balok Interior Y

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CONCRETE BEAM DESIGN OUTPUT (UBC97)

FLEXURAL AND TORSION DESIGN OF BEAM-TYPE ELEMENTS

STORY ID	BEAM BAY	SECTION ID	STATION ID	-----REQUIRED REINFORCING----->					
				TOP	COMBO	BOTTOM	COMBO	TORS	COMBO
LANTA15	B797	B400X700	0	4133.925	COMB8	1909.83	COMB2	1.341	COMB4
LANTA15	B4	B400X700	400	3967.531	COMB4	1839.838	COMB4	1.341	COMB6
LANTA15	B5	B400X700	400	3896.625	COMB4	1809.816	COMB4	1.341	COMB4
LANTA15	B6	B400X700	400	3825.226	COMB4	1779.466	COMB4	1.341	COMB8
LANTA15	B15	B400X700	400	3784.967	COMB4	1762.301	COMB4	1.331	COMB6
LANTA15	B16	B400X700	400	3768.268	COMB4	1755.17	COMB4	1.331	COMB6
LANTA15	B17	B400X700	400	3754.875	COMB4	1749.447	COMB4	1.331	COMB8
LANTA15	B27	B400X700	400	3753.886	COMB4	1749.024	COMB4	1.331	COMB6
LANTA15	B28	B400X700	400	3708.96	COMB4	1729.793	COMB4	1.259	COMB6
LANTA15	B88	B400X700	400	3703.8	COMB4	1727.581	COMB4	1.259	COMB6
LANTA15	B89	B400X700	400	3652.927	COMB4	1725.034	COMB4	1.259	COMB6
LANTA15	B90	B400X700	400	3647.984	COMB4	1705.743	COMB4	1.259	COMB6
LANTA15	B94	B400X700	400	3630.739	COMB4	1703.618	COMB4	1.256	COMB6
LANTA15	B95	B400X700	400	3605.706	COMB4	1696.201	COMB4	1.256	COMB8
LANTA15	B96	B400X700	400	3585.714	COMB4	1685.42	COMB4	1.256	COMB4
LANTA15	B99	B400X700	400	3581.503	COMB4	1676.801	COMB4	1.256	COMB8
LANTA15	B100	B400X700	400	3572.8	COMB4	1674.984	COMB4	1.251	COMB6
LANTA15	B101	B400X700	400	3501.666	COMB4	1671.228	COMB4	1.251	COMB6
LANTA15	B102	B400X700	400	3488.898	COMB4	1659.651	COMB4	1.251	COMB6
LANTA15	B105	B400X700	400	3413.698	COMB4	1640.466	COMB4	1.251	COMB8
LANTA15	B106	B400X700	400	3381.372	COMB4	1634.932	COMB4	0.98	COMB6
LANTA15	B107	B400X700	400	3299.172	COMB4	1617.808	COMB4	0.98	COMB6
LANTA15	B108	B400X700	400	3291.172	COMB4	1602.699	COMB4	0.968	COMB6
LANTA15	B112	B400X700	400	3282.906	COMB4	1602.267	COMB4	0.968	COMB4
LANTA15	B113	B400X700	400	3229.894	COMB4	1596.761	COMB4	0.968	COMB6
LANTA15	B114	B400X700	400	3080.76	COMB4	1596.599	COMB4	0.968	COMB6
LANTA15	B118	B400X700	400	3056.064	COMB4	1588.187	COMB4	0.912	COMB6
LANTA15	B119	B400X700	400	3043.801	COMB4	1568.173	COMB4	0.912	COMB6
LANTA15	B120	B400X700	400	3042.565	COMB4	1552.279	COMB4	0.912	COMB6
LANTA15	B414	B400X700	400	3031.6	COMB4	1548.775	COMB4	0.912	COMB4
LANTA15	B456	B400X700	400	3019.881	COMB4	1545.155	COMB6	0.908	COMB4
LANTA15	B457	B400X700	400	2998.415	COMB4	1538.401	COMB6	0.908	COMB4

Output Tulangan Longitudinal Daerah Lapangan Balok Interior Y

STORY	BEAM	SECTION	STATION	-----REQUIRED REINFORCING----->					
				TOP	COMBO	BOTTOM	COMBO	TORS	COMBO
LANTAI5	B796	B400X700	2216	3540.083	COMB6	2659.436	COMB4	1.341	COMB6
LANTAI5	B4	B400X700	2300	2747.858	COMB6	2507.11	COMB4	1.341	COMB6
LANTAI5	B5	B400X700	2300	2020.97	COMB6	2506.809	COMB4	1.259	COMB4
LANTAI5	B6	B400X700	2300	1353.618	COMB6	2471.669	COMB4	1.259	COMB8
LANTAI5	B15	B400X700	2300	1009.647	COMB6	2466.918	COMB4	1.259	COMB6
LANTAI5	B16	B400X700	2300	979.169	COMB6	2466.443	COMB4	1.259	COMB6
LANTAI5	B17	B400X700	2300	979.169	COMB4	2409.562	COMB4	1.259	COMB8
LANTAI5	B27	B400X700	2300	979.169	COMB6	2400.774	COMB4	1.259	COMB6
LANTAI5	B28	B400X700	2300	979.169	COMB6	2387.511	COMB4	1.259	COMB6
LANTAI5	B88	B400X700	2300	979.169	COMB6	2379.029	COMB6	1.259	COMB6
LANTAI5	B89	B400X700	2300	979.169	COMB6	2235.017	COMB6	1.259	COMB6
LANTAI5	B90	B400X700	2300	979.169	COMB4	2191.512	COMB4	1.259	COMB6
LANTAI5	B94	B400X700	2300	979.169	COMB4	2159.151	COMB4	1.259	COMB6
LANTAI5	B95	B400X700	2300	979.169	COMB6	2138.429	COMB6	1.259	COMB8
LANTAI5	B96	B400X700	2300	972.109	COMB4	2114.575	COMB4	1.259	COMB4
LANTAI5	B100	B400X700	2300	956.55	COMB6	2112.111	COMB6	1.256	COMB6
LANTAI5	B101	B400X700	2300	956.55	COMB6	2096.529	COMB6	1.256	COMB6
LANTAI5	B102	B400X700	2300	956.55	COMB4	2092.825	COMB4	1.256	COMB6
LANTAI5	B106	B400X700	2300	956.55	COMB6	2077.576	COMB6	1.256	COMB6
LANTAI5	B107	B400X700	2300	956.55	COMB6	2074.826	COMB4	1.256	COMB6
LANTAI5	B108	B400X700	2300	956.55	COMB6	2054.696	COMB4	1.256	COMB6
LANTAI5	B112	B400X700	2300	956.55	COMB6	2054.543	COMB6	1.256	COMB4
LANTAI5	B113	B400X700	2300	956.55	COMB6	2041.362	COMB4	1.256	COMB6
LANTAI5	B114	B400X700	2300	956.55	COMB6	2038.063	COMB4	1.256	COMB6
LANTAI5	B118	B400X700	2300	956.403	COMB6	2026.318	COMB4	1.251	COMB6
LANTAI5	B119	B400X700	2300	942.88	COMB6	2024.635	COMB4	1.251	COMB6
LANTAI5	B120	B400X700	2300	939.194	COMB6	1990.893	COMB4	1.251	COMB6
LANTAI5	B414	B400X700	2300	925.239	COMB6	1962.953	COMB4	1.251	COMB4
LANTAI5	B456	B400X700	2300	923.78	COMB6	1860.483	COMB4	1.251	COMB4
LANTAI5	B457	B400X700	2300	923.78	COMB4	1853.602	COMB4	1.248	COMB4
LANTAI5	B461	B400X700	2300	923.78	COMB6	1836.489	COMB4	1.248	COMB6
LANTAI5	B643	B400X700	2300	923.78	COMB4	1836.048	COMB4	1.248	COMB6
LANTAI5	B797	B400X700	2318	923.78	COMB4	1811.659	COMB6	1.248	COMB4
LANTAI5	B99	B400X700	2342.857	923.78	COMB4	1808.964	COMB4	1.166	COMB8
LANTAI5	B105	B400X700	2342.857	923.78	COMB4	1805.937	COMB4	1.166	COMB8
LANTAI5	B798	B400X700	2384	923.78	COMB4	1797.157	COMB4	1.166	COMB4
LANTAI5	B796	B400X700	2670	900.932	COMB4	1785.706	COMB4	1.166	COMB6
LANTAI5	B796	B400X700	2670	892.621	COMB4	1781.324	COMB4	1.166	COMB4
LANTAI5	B4	B400X700	2775	891.091	COMB6	1772.408	COMB4	0.98	COMB6
LANTAI5	B5	B400X700	2775	891.091	COMB6	1767.945	COMB4	0.98	COMB4
LANTAI5	B6	B400X700	2775	891.091	COMB4	1761.259	COMB4	0.98	COMB8
LANTAI5	B15	B400X700	2775	891.091	COMB6	1758.435	COMB4	0.98	COMB6
LANTAI5	B16	B400X700	2775	891.091	COMB6	1757.347	COMB4	0.968	COMB6

Output Tulangan Longitudinal Daerah Tumpuan j Balok Interior Y

STORY	BEAM	SECTION	STATION	-----REQUIRED REINFORCING----->					
				ID	BAY	ID	ID	TOP	COMBO
LANTAI5	B4	B400X700	6100	4420.655	COMB6	2028.89	COMB4	1.259	COMB6
LANTAI5	B5	B400X700	6100	4302.819	COMB6	1980.2	COMB4	1.259	COMB4
LANTAI5	B6	B400X700	6100	3723.175	COMB6	1735.883	COMB4	1.259	COMB8
LANTAI5	B15	B400X700	6100	3496.106	COMB6	1638.057	COMB4	1.259	COMB6
LANTAI5	B16	B400X700	6100	3469.592	COMB6	1584.16	COMB4	1.259	COMB6
LANTAI5	B17	B400X700	6100	3373.126	COMB4	1529.689	COMB4	1.256	COMB8
LANTAI5	B27	B400X700	6100	3372.138	COMB6	1513.945	COMB4	1.256	COMB6
LANTAI5	B28	B400X700	6100	3089.826	COMB6	1502.135	COMB4	1.256	COMB6
LANTAI5	B88	B400X700	6100	3001.063	COMB6	1495.149	COMB4	1.256	COMB6
LANTAI5	B89	B400X700	6100	2936.227	COMB4	1481.995	COMB4	1.256	COMB6
LANTAI5	B90	B400X700	6100	2929.617	COMB4	1468.158	COMB4	1.248	COMB4
LANTAI5	B94	B400X700	6100	2924.812	COMB4	1460.159	COMB4	1.248	COMB6
LANTAI5	B95	B400X700	6100	2900.175	COMB4	1446.484	COMB4	1.248	COMB8
LANTAI5	B96	B400X700	6100	2898.992	COMB4	1444.831	COMB4	1.248	COMB6
LANTAI5	B100	B400X700	6100	2885.304	COMB6	1443.128	COMB4	1.248	COMB6
LANTAI5	B101	B400X700	6100	2883.496	COMB4	1434.268	COMB4	0.909	COMB6
LANTAI5	B102	B400X700	6100	2879.567	COMB4	1429.017	COMB4	0.909	COMB6
LANTAI5	B106	B400X700	6100	2858.6	COMB6	1423.179	COMB4	0.909	COMB6
LANTAI5	B107	B400X700	6100	2835.467	COMB4	1420.814	COMB4	0.909	COMB4
LANTAI5	B108	B400X700	6100	2818.981	COMB4	1418.43	COMB4	0.909	COMB6
LANTAI5	B112	B400X700	6100	2764.424	COMB6	1417.512	COMB4	0.908	COMB6
LANTAI5	B113	B400X700	6100	2761.213	COMB6	1416.163	COMB4	0.908	COMB6
LANTAI5	B114	B400X700	6100	2743.885	COMB4	1412.237	COMB4	0.908	COMB6
LANTAI5	B118	B400X700	6100	2708.494	COMB6	1405.361	COMB4	0.908	COMB6
LANTAI5	B119	B400X700	6100	2660.227	COMB6	1403.753	COMB4	0.908	COMB4
LANTAI5	B120	B400X700	6100	2656.869	COMB6	1402.611	COMB4	0.903	COMB6
LANTAI5	B414	B400X700	6100	2613.341	COMB6	1396.055	COMB4	0.903	COMB6
LANTAI5	B456	B400X700	6100	2565.576	COMB6	1388.135	COMB4	0.903	COMB6
LANTAI5	B457	B400X700	6100	2548.403	COMB4	1386.881	COMB4	0.903	COMB4
LANTAI5	B461	B400X700	6100	2534.617	COMB6	1385.556	COMB4	0.903	COMB6
LANTAI5	B643	B400X700	6100	2466.776	COMB4	1382.396	COMB6	0.902	COMB6
LANTAI5	B4	B400X700	6575	2328.558	COMB6	1375.363	COMB4	0.902	COMB6
LANTAI5	B5	B400X700	6575	2315.191	COMB6	1371.842	COMB4	0.902	COMB4
LANTAI5	B6	B400X700	6575	2257.889	COMB6	1371.176	COMB4	0.902	COMB8
LANTAI5	B15	B400X700	6575	2253.298	COMB6	1371.042	COMB4	0.902	COMB6
LANTAI5	B16	B400X700	6575	2251.263	COMB6	1369.25	COMB4	0.901	COMB6
LANTAI5	B17	B400X700	6575	2242.272	COMB4	1366.687	COMB6	0.901	COMB8
LANTAI5	B27	B400X700	6575	2226.521	COMB6	1360.969	COMB4	0.901	COMB6
LANTAI5	B28	B400X700	6575	2212.605	COMB6	1360.039	COMB4	0.901	COMB6
LANTAI5	B88	B400X700	6575	2203.643	COMB6	1358.276	COMB4	0.901	COMB6
LANTAI5	B89	B400X700	6575	2199.366	COMB6	1357.315	COMB4	0.9	COMB6
LANTAI5	B90	B400X700	6575	2198.128	COMB4	1356.455	COMB6	0.9	COMB4
LANTAI5	B94	B400X700	6575	2196.108	COMB4	1353.997	COMB4	0.9	COMB6

Output Tulangan Transversal Daerah Tumpuan i Balok Interior Y

TORSION AND SHEAR DESIGN OF BEAM-TYPE ELEMENTS

STORY	BEAM	SECTION	STATION	<-----REQU	IRED RE	INFORCING--	----->
ID	BAY	ID	ID	TORSION	COMBO	SHEAR	COMBO
LANTAI5	B797	B400X700	400	1.212	COMB4	5.719	COMB4
LANTAI5	B4	B400X700	400	1.212	COMB4	5.641	COMB6
LANTAI5	B5	B400X700	400	1.212	COMB6	5.55	COMB6
LANTAI5	B6	B400X700	400	1.212	COMB4	5.446	COMB4
LANTAI5	B15	B400X700	400	1.203	COMB4	5.406	COMB4
LANTAI5	B16	B400X700	400	1.203	COMB4	5.336	COMB4
LANTAI5	B17	B400X700	400	1.203	COMB4	5.239	COMB6
LANTAI5	B27	B400X700	400	1.203	COMB4	5.121	COMB4
LANTAI5	B28	B400X700	400	1.038	COMB4	3.922	COMB4
LANTAI5	B37	B400X700	400	1.038	COMB4	3.842	COMB4
LANTAI5	B88	B400X700	400	1.038	COMB4	3.626	COMB6
LANTAI5	B89	B400X700	400	1.038	COMB4	3.564	COMB6
LANTAI5	B90	B400X700	400	0.997	COMB4	3.547	COMB6
LANTAI5	B91	B400X700	400	0.997	COMB8	3.507	COMB4
LANTAI5	B94	B400X700	400	0.997	COMB4	3.5	COMB6
LANTAI5	B95	B400X700	400	0.997	COMB4	3.434	COMB4
LANTAI5	B96	B400X700	400	0.977	COMB6	3.403	COMB6
LANTAI5	B97	B400X700	400	0.977	COMB8	3.403	COMB6
LANTAI5	B99	B400X700	400	0.977	COMB8	3.374	COMB4
LANTAI5	B100	B400X700	400	0.977	COMB4	3.354	COMB6
LANTAI5	B101	B400X700	400	0.968	COMB4	3.329	COMB4
LANTAI5	B102	B400X700	400	0.968	COMB4	3.326	COMB6
LANTAI5	B103	B400X700	400	0.968	COMB8	3.316	COMB6
LANTAI5	B105	B400X700	400	0.968	COMB8	3.312	COMB4
LANTAI5	B106	B400X700	400	0.94	COMB4	3.294	COMB6
LANTAI5	B107	B400X700	400	0.94	COMB4	3.294	COMB6
LANTAI5	B108	B400X700	400	0.94	COMB4	3.289	COMB6
LANTAI5	B109	B400X700	400	0.94	COMB8	3.288	COMB4
LANTAI5	B112	B400X700	400	0.934	COMB6	3.285	COMB6
LANTAI5	B113	B400X700	400	0.934	COMB4	3.262	COMB6
LANTAI5	B114	B400X700	400	0.934	COMB4	3.254	COMB6
LANTAI5	B115	B400X700	400	0.934	COMB8	3.248	COMB4
LANTAI5	B118	B400X700	400	0.885	COMB4	3.246	COMB6
LANTAI5	B119	B400X700	400	0.885	COMB4	3.234	COMB6
LANTAI5	B120	B400X700	400	0.874	COMB4	3.227	COMB6
LANTAI5	B121	B400X700	400	0.874	COMB8	3.222	COMB4
LANTAI5	B414	B400X700	400	0.874	COMB4	3.221	COMB4
LANTAI5	B453	B400X700	400	0.874	COMB4	3.215	COMB6
LANTAI5	B456	B400X700	400	0.722	COMB6	3.211	COMB4

Output Tulangan Transversal Daerah Lapangan Balok Interior Y

STORY	BEAM	SECTION	STATION	<---REQU	IRED RE	INFORCING-	----->
ID	BAY	ID	ID	TORSION	COMBO	SHEAR	COMBO
LANTAI5	B796	B400X700	2216	1.212	COMB6	5.332	COMB4
LANTAI5	B4	B400X700	2300	1.212	COMB4	5.228	COMB6
LANTAI5	B5	B400X700	2300	1.068	COMB6	5.137	COMB6
LANTAI5	B6	B400X700	2300	1.068	COMB4	5.06	COMB4
LANTAI5	B15	B400X700	2300	1.068	COMB4	4.992	COMB4
LANTAI5	B16	B400X700	2300	1.068	COMB4	4.874	COMB4
LANTAI5	B17	B400X700	2300	1.053	COMB4	4.777	COMB6
LANTAI5	B27	B400X700	2300	1.053	COMB4	4.707	COMB4
LANTAI5	B28	B400X700	2300	1.053	COMB4	4.214	COMB4
LANTAI5	B88	B400X700	2300	1.053	COMB4	4.16	COMB6
LANTAI5	B89	B400X700	2300	1.053	COMB4	4.093	COMB6
LANTAI5	B90	B400X700	2300	1.038	COMB4	4.012	COMB6
LANTAI5	B94	B400X700	2300	1.038	COMB4	3.981	COMB6
LANTAI5	B95	B400X700	2300	1.038	COMB4	3.911	COMB4
LANTAI5	B96	B400X700	2300	1.038	COMB6	3.893	COMB6
LANTAI5	B100	B400X700	2300	1.038	COMB4	3.816	COMB6
LANTAI5	B101	B400X700	2300	0.997	COMB4	3.814	COMB4
LANTAI5	B102	B400X700	2300	0.997	COMB4	3.725	COMB6
LANTAI5	B106	B400X700	2300	0.977	COMB4	3.691	COMB6
LANTAI5	B107	B400X700	2300	0.977	COMB4	3.621	COMB6
LANTAI5	B108	B400X700	2300	0.977	COMB4	3.61	COMB6
LANTAI5	B112	B400X700	2300	0.977	COMB6	3.54	COMB6
LANTAI5	B113	B400X700	2300	0.977	COMB4	3.515	COMB6
LANTAI5	B114	B400X700	2300	0.968	COMB4	3.49	COMB6
LANTAI5	B118	B400X700	2300	0.968	COMB4	3.47	COMB6
LANTAI5	B119	B400X700	2300	0.965	COMB4	3.445	COMB6
LANTAI5	B120	B400X700	2300	0.965	COMB4	3.444	COMB6
LANTAI5	B414	B400X700	2300	0.965	COMB4	3.42	COMB4
LANTAI5	B456	B400X700	2300	0.965	COMB6	3.4	COMB4
LANTAI5	B457	B400X700	2300	0.955	COMB6	3.348	COMB4
LANTAI5	B461	B400X700	2300	0.955	COMB4	3.324	COMB4
LANTAI5	B643	B400X700	2300	0.955	COMB4	3.32	COMB4
LANTAI5	B812	B400X700	2300	0.955	COMB4	3.303	COMB4
LANTAI5	B797	B400X700	2318	0.94	COMB4	3.225	COMB4
LANTAI5	B91	B400X700	2342.857	0.94	COMB8	3.2	COMB4
LANTAI5	B97	B400X700	2342.857	0.94	COMB8	3.18	COMB4
LANTAI5	B99	B400X700	2342.857	0.94	COMB8	3.152	COMB4
LANTAI5	B103	B400X700	2342.857	0.94	COMB8	3.102	COMB4
LANTAI5	B105	B400X700	2342.857	0.934	COMB8	3.062	COMB4
LANTAI5	B109	B400X700	2342.857	0.934	COMB8	3.056	COMB4
LANTAI5	B115	B400X700	2342.857	0.934	COMB8	3.007	COMB4
LANTAI5	B121	B400X700	2342.857	0.934	COMB8	2.986	COMB4
LANTAI5	B37	B400X700	2376	0.934	exceeds	2.939	lowed

Output Tulangan Transversal Daerah Tumpuan j Balok Interior Y

STORY ID	BEAM BAY	SECTION ID	STATION ID	<---REQU TORSION	IRED RE COMBO	INFORCING- SHEAR	-----> COMBO
LANTAI5	B4	B400X700	6100	0.634	COMB4	3.683	COMB6
LANTAI5	B5	B400X700	6100	0.652	COMB6	3.633	COMB6
LANTAI5	B6	B400X700	6100	0.965	COMB4	3.616	COMB4
LANTAI5	B15	B400X700	6100	0.621	COMB4	3.566	COMB4
LANTAI5	B16	B400X700	6100	0.662	COMB4	3.524	COMB4
LANTAI5	B17	B400X700	6100	0.955	COMB4	3.475	COMB6
LANTAI5	B27	B400X700	6100	0.673	COMB4	3.408	COMB4
LANTAI5	B28	B400X700	6100	0.641	COMB4	3.358	COMB4
LANTAI5	B37	B400X700	6100	1.068	COMB4	3.278	COMB4
LANTAI5	B88	B400X700	6100	0.622	COMB4	3.272	COMB6
LANTAI5	B89	B400X700	6100	0.666	COMB4	3.241	COMB6
LANTAI5	B90	B400X700	6100	0.616	COMB6	3.222	COMB6
LANTAI5	B94	B400X700	6100	0.617	COMB4	3.211	COMB6
LANTAI5	B95	B400X700	6100	0.929	COMB4	3.174	COMB4
LANTAI5	B96	B400X700	6100	0.63	COMB4	3.12	COMB6
LANTAI5	B100	B400X700	6100	0.621	COMB4	3.082	COMB6
LANTAI5	B101	B400X700	6100	0.664	COMB4	3.004	COMB4
LANTAI5	B102	B400X700	6100	0.633	COMB4	2.966	COMB6
LANTAI5	B106	B400X700	6100	0.624	COMB4	2.962	COMB6
LANTAI5	B107	B400X700	6100	0.628	COMB6	2.954	COMB6
LANTAI5	B108	B400X700	6100	0.635	COMB4	2.926	COMB6
LANTAI5	B112	B400X700	6100	0.633	COMB4	2.908	COMB6
LANTAI5	B113	B400X700	6100	0.627	COMB4	2.895	COMB6
LANTAI5	B114	B400X700	6100	0.633	COMB4	2.887	COMB6
LANTAI5	B118	B400X700	6100	0.644	COMB4	2.883	COMB6
LANTAI5	B119	B400X700	6100	0.61	COMB6	2.868	COMB6
LANTAI5	B120	B400X700	6100	0.676	COMB4	2.867	COMB6
LANTAI5	B414	B400X700	6100	0.712	COMB4	2.859	COMB4
LANTAI5	B453	B400X700	6100	0.755	COMB4	2.841	COMB6
LANTAI5	B456	B400X700	6100	0.659	COMB4	2.83	COMB4
LANTAI5	B457	B400X700	6100	0.684	COMB6	2.82	COMB4
LANTAI5	B461	B400X700	6100	0.663	COMB4	2.816	COMB4
LANTAI5	B643	B400X700	6100	0.718	COMB4	2.803	COMB4
LANTAI5	B4	B400X700	6575	0.634	COMB4	2.795	COMB6
LANTAI5	B5	B400X700	6575	0.652	COMB6	2.789	COMB6
LANTAI5	B6	B400X700	6575	0.965	COMB4	2.768	COMB4
LANTAI5	B15	B400X700	6575	0.621	COMB4	2.759	COMB4
LANTAI5	B16	B400X700	6575	0.662	COMB4	2.749	COMB4
LANTAI5	B17	B400X700	6575	0.955	COMB4	2.743	COMB6
LANTAI5	B27	B400X700	6575	0.673	COMB4	2.725	COMB4
LANTAI5	B28	B400X700	6575	0.641	COMB4	2.687	COMB4
LANTAI5	B37	B400X700	6575	1.068	COMB4	2.683	COMB4

Output Tulangan Daerah Tumpuan i Kolom Eksterior

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CONCRETE COLUMN DESIGN OUTPUT (UBC97)

BIAXIAL P-M INTERACTION AND SHEAR DESIGN OF COLUMN-TYPE ELEMENTS

STORY	COL	SECT	STAT	-----REQUIRED REINFORCING----->					
				ID	LINE	ID	ID	LONGITU	COMBO
LANTA15	C104	K800	0	11226.28	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C105	K800	0	10812.76	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C106	K800	0	10235.51	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C107	K800	0	10053.37	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C108	K800	0	9886.855	COMB4	1.172	COMB8	1.172	COMB6
LANTA15	C109	K800	0	9885.787	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C110	K800	0	9774.428	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C111	K800	0	9494.479	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C112	K800	0	9219.508	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C113	K800	0	9141.214	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C114	K800	0	9111.944	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C115	K800	0	8980.526	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C118	K800	0	8523.709	COMB8	1.172	COMB8	1.172	COMB6
LANTA15	C119	K800	0	8394.854	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C120	K800	0	8102.803	COMB8	1.172	COMB8	1.172	COMB8
LANTA15	C123	K800	0	8055.236	COMB8	1.172	COMB8	1.172	COMB4
LANTA15	C124	K800	0	7793.165	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C125	K800	0	7211.253	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C126	K800	0	7169.13	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C127	K800	0	7096.348	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C128	K800	0	7039.601	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C129	K800	0	6891.59	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C130	K800	0	6466.494	COMB8	1.172	COMB4	1.172	COMB6
LANTA15	C131	K800	0	6461.702	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C132	K800	0	6358.279	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C133	K800	0	6067.948	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C134	K800	0	6010.118	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C135	K800	0	5930.451	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C136	K800	0	5666.913	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C137	K800	0	5657.958	COMB4	1.172	COMB8	1.172	COMB6
LANTA15	C138	K800	0	5594.28	COMB4	1.172	COMB8	1.172	COMB6
LANTA15	C139	K800	0	5555.208	COMB4	1.172	COMB6	1.172	COMB6

Output Tulangan Daerah Lapangan Kolom Eksterior

STORY	COL	SECT	STAT	-----REQUIRED REINFORCING----->					
				LONGITU	COMBO	S22	COMBO	S33	COMBO
LANTA5	C104	K800	1690	5144.927	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C105	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C106	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C107	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C108	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB6
LANTA5	C109	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C110	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C111	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C112	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C113	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C114	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C115	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C118	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB6
LANTA5	C119	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C120	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB8
LANTA5	C123	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB4
LANTA5	C124	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C125	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C126	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C127	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C128	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C129	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C130	K800	1690	5026.548	COMB8	1.172	COMB4	1.172	COMB6
LANTA5	C131	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C132	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C133	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C134	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C135	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C136	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C137	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB6
LANTA5	C138	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB6
LANTA5	C139	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C140	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C141	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C142	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C143	K800	1690	5026.548	COMB1	1.172	COMB8	1.172	COMB6
LANTA5	C144	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C145	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C146	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C147	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C148	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB6
LANTA5	C149	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C150	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6

Output Tulangan Daerah Tumpuan j Kolom Eksterior

STORY	COL	SECT	STAT	-----REQUIRED REINFORCING----->					
ID	LINE	ID	ID	LONGITU	COMBO	S22	COMBO	S33	COMBO
LANTA5	C125	K800	2040	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C125	K800	2040	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C173	K800	2040	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C173	K800	2040	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C174	K800	2040	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C174	K800	2040	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C104	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C105	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C106	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C107	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C108	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB6
LANTA5	C109	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C110	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C111	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C112	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C113	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C114	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C115	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C118	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB6
LANTA5	C119	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C120	K800	3380	5026.548	COMB8	0	COMB8	0	COMB8
LANTA5	C123	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB4
LANTA5	C124	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C125	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C126	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C127	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C128	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C129	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C130	K800	3380	5026.548	COMB8	1.172	COMB4	1.172	COMB6
LANTA5	C131	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C132	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C133	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C134	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C135	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C136	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C137	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB6
LANTA5	C138	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB6
LANTA5	C139	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C140	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C141	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C142	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C143	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB6

Output Tulangan Daerah Tumpuan i Kolom Interior

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CONCRETE COLUMN DESIGN OUTPUT (UBC97)

BIAXIAL P-M INTERACTION AND SHEAR DESIGN OF COLUMN-TYPE ELEMENTS

STORY	COL	SEC	STAT	<-----REQUIRED REINFORCING----->					
				ID	LINE	ID	ID	LONG	COMBO
LANTA15	C109	K800	0	10235.51	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C110	K800	0	10053.37	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C113	K800	0	9886.855	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C114	K800	0	9885.787	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C131	K800	0	9774.428	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C132	K800	0	9219.508	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C133	K800	0	9141.214	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C134	K800	0	9111.944	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C135	K800	0	8980.526	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C136	K800	0	8055.236	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C137	K800	0	7211.253	COMB4	1.172	COMB8	1.172	COMB6
LANTA15	C138	K800	0	7169.13	COMB4	1.172	COMB8	1.172	COMB6
LANTA15	C139	K800	0	7096.348	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C142	K800	0	7039.601	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C143	K800	0	6891.59	COMB4	1.172	COMB8	1.172	COMB6
LANTA15	C144	K800	0	6466.494	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C145	K800	0	6461.702	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C146	K800	0	6358.279	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C147	K800	0	5930.451	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C148	K800	0	5666.913	COMB4	1.172	COMB8	1.172	COMB6
LANTA15	C149	K800	0	5594.28	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C150	K800	0	5442.886	COMB4	1.172	COMB6	1.172	COMB6
LANTA15	C154	K800	0	5345.563	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C155	K800	0	5075.44	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C156	K800	0	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C157	K800	0	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C158	K800	0	5026.548	COMB8	0	COMB6	1.172	COMB6
LANTA15	C159	K800	0	5026.548	COMB4	0	COMB6	1.172	COMB6
LANTA15	C160	K800	0	5026.548	COMB4	0	COMB6	1.172	COMB6
LANTA15	C161	K800	0	5026.548	COMB4	0	COMB6	1.172	COMB6
LANTA15	C109	K800	1690	5144.927	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C110	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6

Output Tulangan Daerah Lapangan Kolom Interior

STORY	COL	SEC	STAT	<-----REQUIRED REINFORCING----->					
ID	LINE	ID	ID	LONG	COMBO	S22	COMBO	S33	COMBO
LANTA5	C109	K800	1690	5144.927	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C110	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C113	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C114	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C131	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C132	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C133	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C134	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C135	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C136	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C137	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB6
LANTA5	C138	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB6
LANTA5	C139	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C142	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C143	K800	1690	5026.548	COMB1	1.172	COMB8	1.172	COMB6
LANTA5	C144	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C145	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C146	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C147	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C148	K800	1690	5026.548	COMB8	1.172	COMB8	1.172	COMB6
LANTA5	C149	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C150	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C154	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C155	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C156	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C157	K800	1690	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA5	C158	K800	1690	5026.548	COMB8	0	COMB6	1.172	COMB6
LANTA5	C159	K800	1690	5026.548	COMB8	0	COMB6	1.172	COMB6
LANTA5	C160	K800	1690	5026.548	COMB8	0	COMB6	1.172	COMB6
LANTA5	C161	K800	1690	5026.548	COMB8	0	COMB6	1.172	COMB6

Output Tulangan Daerah Tumpuan j Kolom Interior

STORY	COL	SEC	STAT	<-----REQUIRED REINFORCING----->					
ID	LINE	ID	ID	LONG	COMBO	S22	COMBO	S33	COMBO
LANTA15	C109	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C110	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C113	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C114	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C131	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C132	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C133	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C134	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C135	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C136	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C137	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB6
LANTA15	C138	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB6
LANTA15	C139	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C142	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C143	K800	3380	5026.548	COMB8	0	COMB8	1.172	COMB6
LANTA15	C144	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C145	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C146	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C147	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C148	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C149	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C150	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C154	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C155	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C156	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C157	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C158	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C159	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C160	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6
LANTA15	C161	K800	3380	5026.548	COMB8	1.172	COMB6	1.172	COMB6