

Estimated Cargo Throughput at Songkhla Truck Terminal in 1996
(tons/year)

Commodity Group	Commodity Breakdown	Rate(%)		Utiliz.(%)		Cargo Volume in 1996					Cargo Volume by Truck Terminal							
		In	out	BKK	Oth.	Inflow		Outflow		Total	Inflow			Outflow			Total	
						BKK	Others	BKK	Others		BKK	Others	Total	BKK	Others	Total		
Other Construc.	Asphalt	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction brick	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pala roofing	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other const. mater	100.0	100.0	10.0	10.0	0	1385	0	8556	9941	0	138	138	0	856	856	994	994
	Subtotal					0	1385	0	8556	9941	0	138	138	0	856	856	994	994
Vegetable & Fruit	Longan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rambutan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bananas	0.0	2.8	30.0	30.0	0	0	21	189	210	0	0	0	8	33	39	39	39
	Water melon	8.0	2.6	30.0	30.0	140	1686	20	171	2019	42	506	548	6	30	36	584	584
	Pineapple	12.3	30.6	30.0	30.0	215	2593	231	2025	5065	64	778	842	69	354	423	1265	1265
	Oranges	22.7	7.7	30.0	30.0	396	4776	58	506	5736	119	1433	1552	17	88	106	1657	1657
	Coconut	21.5	4.4	30.0	30.0	374	4517	33	289	5213	112	1355	1467	10	51	60	1528	1528
	Lime, Lemon	1.8	0.0	30.0	30.0	32	389	0	0	421	10	117	126	0	0	0	126	126
	Sugarcane	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fresh vegetables	16.4	14.4	30.0	30.0	286	3458	109	955	4808	86	1037	1123	33	167	199	1323	1323
	Papaya	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sweet potato	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other fruits	17.2	37.4	30.0	30.0	301	3631	283	2474	6688	90	1089	1179	85	432	517	1696	1696
	Subtotal					1743	21050	755	6611	30160	523	6315	6838	227	1154	1381	8219	8219
	Beverages	Drinks	93.2	70.5	30.0	30.0	9272	10812	0	14716	34750	2767	1587	4353	0	2660	2660	7013
Ice & icecream		6.8	10.3	0.0	0.0	673	789	0	2142	3605	0	0	0	0	0	0	0	0
Pure water		0.0	17.9	30.0	30.0	0	0	0	3726	3726	0	0	0	0	673	673	673	673
Alcohol & beer		0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
Milk		0.0	1.3	30.0	30.0	0	0	0	279	279	0	0	0	0	51	51	51	51
Tea, Coffee		0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fruit flavor		0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal						9895	11601	0	26843	42359	2767	1587	4353	0	3384	3384	7237	7237
Processed Foods		Salt, Fish sauce	16.9	0.0	60.0	60.0	534	888	0	0	1422	371	385	705	0	0	0	705
	Onion, Garlic	36.3	5.9	60.0	60.0	1145	1902	268	297	3614	687	825	1512	161	124	285	1796	1796
	Dry fish	1.2	0.0	60.0	60.0	38	65	0	0	102	23	27	50	0	0	0	50	50
	Canned food	14.5	72.7	60.0	60.0	458	761	3315	3705	8239	275	330	605	1989	1535	3124	4128	4128
	Eggs	2.2	2.0	60.0	60.0	69	114	92	103	378	41	49	91	55	43	98	189	189
	Meat	0.4	0.0	10.0	10.0	11	19	0	0	30	1	1	3	0	0	0	3	3
	Other grocery	28.5	19.4	60.0	60.0	901	1496	887	991	4275	540	649	1189	532	411	943	2132	2132
	Subtotal					3156	5243	4562	5079	18060	1868	2267	4154	2237	2112	4849	9004	9004
	Animals	Chicken	56.1	44.4	0.0	0.0	0	7767	0	4490	12257	0	0	0	0	0	0	0
Duck, Goose		40.8	55.6	0.0	0.0	0	5648	0	5613	11261	0	0	0	0	0	0	0	0
Cow		3.1	0.0	0.0	0.0	0	424	0	0	424	0	0	0	0	0	0	0	0
Buffalo		0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pig		0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other animals		0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal						0	13839	0	10103	23942	0	0	0	0	0	0	0	0
Fish	Fresh fish	81.2	62.3	0.0	0.0	933	8160	7731	41484	134608	0	0	0	0	0	0	0	0
	Prawn	16.2	8.6	0.0	0.0	187	16892	1068	5734	23881	0	0	0	0	0	0	0	0
	Shells	0.0	1.0	0.0	0.0	0	0	121	649	769	0	0	0	0	0	0	0	0
	Crab	0.6	0.6	0.0	0.0	7	594	73	389	1062	0	0	0	0	0	0	0	0
	Other aquatic ani.	2.0	27.6	0.0	0.0	23	2100	3423	18368	23914	0	0	0	0	0	0	0	0
	Subtotal					1150	104015	12415	66823	184234	0	0	0	0	0	0	0	0
Fertiliz. & Feed	Fertilizers	35.2	15.1	0.0	0.0	4025	5580	1018	5815	20438	0	0	0	0	0	0	0	0
	Animal feed	64.8	84.9	0.0	0.0	7394	17600	5722	32675	63391	0	0	0	0	0	0	0	0
	Subtotal					11419	27180	6740	38490	83828	0	0	0	0	0	0	0	0
Household Appl.	Clothes	5.4	19.9	60.0	60.0	37	504	47	1043	1431	22	144	167	28	378	406	573	573
	Cosmetic	20.9	0.2	60.0	60.0	229	1859	1	13	2100	137	883	1020	0	5	5	1025	1025
	Medicine & suppl.	0.2	0.7	60.0	60.0	2	17	2	38	58	1	8	9	1	14	15	24	24
	Furniture	34.0	26.1	60.0	60.0	372	3024	61	1369	4827	223	1436	1660	37	496	533	2192	2192
	Electrical appl.	9.5	0.7	60.0	60.0	104	815	2	39	989	62	401	464	1	14	15	478	478
	Stationaries	1.5	11.5	60.0	60.0	17	135	27	603	787	10	64	74	16	218	235	309	309
	Other households	30.4	40.8	60.0	60.0	332	2703	96	2136	5267	199	1284	1483	57	774	831	2314	2314
	Subtotal					1093	8887	235	5239	15454	656	4221	4877	141	1898	2038	6915	6915
Other Manufac.	Containers	82.5	50.8	60.0	60.0	43208	97199	1690	23471	160568	25925	26058	51983	1014	13687	14701	66685	66685
	Entertains	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	House equip.mvne	0.0	8.5	60.0	60.0	0	0	282	3912	4194	0	0	0	169	2281	2450	2450	2450
	Mix. ready made pro	17.5	40.7	60.0	60.0	9153	19531	1352	18777	48813	5492	5520	11012	811	10950	11761	22773	22773
	Subtotal					52361	111730	3325	46159	213575	31417	31579	62995	1995	26918	28913	91908	91908
All Others	Vegetable oil	0.0	25.8	60.0	60.0	0	0	1250	10971	11321	0	0	0	750	3738	4487	4487	4487
	Rubber	87.0	47.7	30.0	30.0	15489	232236	2314	18551	286687	4647	54838	59185	694	3461	4155	63640	63640
	Cigarettes	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Betel, tobacco leaf	1.0	0.0	0.0	0.0	180	2951	0	0	3111	0	0	0	0	0	0	0	0
	Fibers	3.3	0.2	60.0	60.0	585	9527	9	75	10195	351	4142	4493	6	28	33	4527	4527
	Engines, Machines	5.3	26.3	30.0	30.0	945	15389	1277	10295	27907	283	3346	3629	383	1910	2294	5923	5923
	Plants, Flowers	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Animal skin, Horn	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Chemicals	0.3	0.0	60.0	60.0	45	733	0	0	778	27	319	346	0	0	0	346	346
	Non-stipulated pro	3.2	0.0	60.0	60.0	567	9234	0	0	9800	340	4015	4355	0	0	0	4355	4355
	Subtotal																	

Estimated Cargo Throughput at Chiang Mai Truck Terminal in 2006

(tons/year)

Commodity Group	Commodity Breakdown	Rate(%) Utiliz.(%)				Cargo Volume in 2006					Cargo Volume by Truck Terminal							
		In	out	RR	Oth.	Inflow		Outflow		Total	Inflow			Outflow			Total	
						RR	Others	RR	Others		RR	Others	Total	RR	Others	Total		
																		RR
Other Construc.	Asphalt	13.1	11.8	0.0	0.0	10016	1788	5150	2974	20028	0	0	0	0	0	0	0	
	Construction brick	21.3	12.6	10.0	10.0	20950	3120	1657	892	27127	2096	372	2468	156	89	245	2713	
	Palm roofing	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other const. mater	59.6	45.6	10.0	10.0	43744	8121	5638	3241	62764	4374	812	5387	566	324	890	6276	
	Subtotal					76778	13630	12495	7107	109920	6670	1284	7854	721	413	1135	8909	
Vegetable & Fruit	Longan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rambutan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Bananas	1.1	0.1	30.0	30.0	163	239	113	253	300	18	91	133	31	76	110	247	
	Water melon	15.6	0.7	30.0	30.0	2330	3188	189	122	6324	698	1195	1894	57	127	183	2077	
	Pineapple	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Orange	3.1	13.2	30.0	30.0	466	797	333	834	1328	140	238	378	118	260	368	393	
	Coconut	0.0	0.0	30.0	30.0	0	0	119	101	510	0	0	0	54	120	174	174	
	Lima, Lemon	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sugarcane	0.0	0.0	0.0	0.0	0	0	85	100	275	0	0	0	0	0	0	0	
	Fresh vegetables	65.2	33.6	30.0	30.0	9000	16771	23641	52515	102695	2012	5021	7034	7062	15773	22835	30008	
	Papaya	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sweet potato	0.0	0.0	30.0	30.0	23	40	188	422	674	7	12	18	57	127	193	202	
	Other fruits	16.4	0.0	30.0	30.0	2143	2665	142	316	6266	643	1009	1742	43	95	137	1800	
	Subtotal					14932	25335	20110	62913	131557	4100	7601	12740	8425	10017	22442	39383	
	Beverages	Briks	61.0	11.6	30.0	30.0	35370	24220	5213	4786	69609	10614	7266	17880	1864	1730	3093	20883
Ice & Icecream		5.5	5.7	0.0	0.0	2930	2047	717	659	6412	0	0	0	0	0	0	0	
Pure water		0.0	0.0	30.0	30.0	490	341	0	0	839	149	102	252	0	0	0	252	
Alcohol & beer		6.0	26.3	30.0	30.0	3550	2431	3192	3034	12331	1665	720	1791	991	911	1502	3296	
Milk		22.3	25.6	30.0	30.0	12146	8316	3204	2948	26612	3544	2195	6138	961	894	1855	7994	
Tea, Coffee		0.0	0.0	60.0	60.0	0	0	98	90	188	0	0	0	59	51	110	110	
Fruit flavor		0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
Subtotal						41563	37354	12634	11532	115937	15472	10592	26064	3675	3283	6958	32924	
Processed Foods		Salt, Fish sauce	21.0	0.3	60.0	60.0	1752	5736	5178	8167	21194	1651	3470	4530	3167	5080	8187	12715
	Onion, Garlic	37.0	66.3	60.0	60.0	2970	9826	41102	69190	126681	1702	5895	7697	23021	40314	65926	73612	
	Dry fish	1.2	0.0	60.0	60.0	333	1101	0	0	1434	200	651	851	0	0	0	851	
	Canned food	0.0	13.3	60.0	60.0	0	0	7088	11592	18680	0	0	0	4253	6555	11209	11209	
	Eggs	5.5	0.1	60.0	60.0	438	1448	62	101	2050	263	869	1132	37	60	97	1230	
	Meat	0.0	1.2	10.0	10.0	0	0	721	2869	3591	0	0	0	37	120	203	293	
	Other grocery	31.0	12.3	60.0	60.0	2641	8105	7675	12510	31169	1524	5003	6527	4605	7530	12134	18762	
	Subtotal					8033	26576	62476	102150	192243	4820	13946	20766	31100	40665	97466	116532	
	Animals	Chicken	69.7	50.1	0.0	0.0	828	15757	1819	4101	22834	0	0	0	0	0	0	0
		Duck, Goose	0.0	16.3	0.0	0.0	0	0	811	2002	2812	0	0	0	0	0	0	0
Cow		22.4	0.0	0.0	0.0	265	5055	230	957	6267	0	0	0	0	0	0	0	
Buffalo		0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
Pig		7.9	6.2	0.0	0.0	91	1784	196	467	2511	0	0	0	0	0	0	0	
Other animals		0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
Subtotal						1187	22595	3166	7540	34484	0	0	0	0	0	0	0	
Fish	Fresh fish	51.2	100.0	0.0	0.0	6329	4290	0	5034	17061	0	0	0	0	0	0	0	
	Prava	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Shells	2.3	0.0	0.0	0.0	315	195	0	0	510	0	0	0	0	0	0	0	
	Crab	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other aquatic ani.	16.3	0.0	0.0	0.0	6299	3907	0	0	10206	0	0	0	0	0	0	0	
Subtotal					13543	8492	0	5034	27777	0	0	0	0	0	0	0		
Fertiliz. & Feed	Fertilizers	51.0	83.7	0.0	0.0	21222	15757	4103	13398	57480	0	0	0	0	0	0	0	
	Animal feed	48.2	16.8	0.0	0.0	23583	14691	827	2700	10001	0	0	0	0	0	0	0	
	Subtotal					44805	30448	4930	16097	67481	0	0	0	0	0	0	0	
Household Appl.	Clothes	16.0	11.0	60.0	60.0	7100	5553	2298	4991	20232	4400	3232	7630	1379	2940	4389	16133	
	Cosmetic	2.0	0.0	60.0	60.0	1312	974	0	0	2287	787	585	1372	0	0	0	1372	
	Medicine & suppl.	2.0	0.0	60.0	60.0	375	610	0	0	1324	525	370	915	0	0	0	915	
	Furniture	37.3	32.3	60.0	60.0	16612	12502	6744	14210	50669	10195	7502	17697	4046	8620	12575	30281	
	Electrical appl.	19.3	6.9	60.0	60.0	8530	6333	1450	3093	19405	5128	2800	8918	870	3056	2725	11631	
	Stationaries	19.0	12.1	60.0	60.0	5618	4319	5763	14421	31320	3491	2591	6082	4058	8652	12710	18792	
	Other households	0.0	17.4	60.0	60.0	3762	2783	2636	2753	17943	2253	1676	3929	2181	1652	6833	10766	
	Subtotal					41620	31124	20091	44547	171182	26772	19874	46616	12534	26720	39263	65989	
Other Manufact.	Containers	92.9	95.1	60.0	60.0	12917	36732	24904	21030	51643	259750	21439	201189	14982	12651	27596	308746	
	Interstains	0.0	4.9	60.0	60.0	3532	291	1248	1091	6202	2119	175	2394	753	655	1427	3723	
	House equip. auto	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Mic. resdy made pro	6.3	0.0	60.0	60.0	29130	2429	0	0	31959	17650	1157	19116	0	0	0	39116	
Subtotal					46678	38453	26192	22181	952704	279527	23072	302589	15715	13209	29024	331623		
All Others	Vegetable oil	5.3	0.0	60.0	60.0	2775	3462	0	0	6237	1665	2071	3742	0	0	0	3742	
	Rubber	6.2	1.9	30.0	30.0	2671	3332	806	381	7189	891	1000	1891	242	114	356	2157	
	Cigarettes	0.1	0.0	0.0	0.0	25	43	0	0	78	0	0	0	0	0	0	0	
	Retel, Tobacco leaf	16.3	65.0	0.0	0.0	7251	5063	27913	13286	57394	0	0	0	0	0	0	0	
	Fibers	0.3	3.1	60.0	60.0	382	176	1439	620	2716	219	286	515	863	400	1271	1786	
	Engines, Machines	19.0	10.2	30.0	30.0	8500	10691	7770	3676	30561	2550	3180	8730	2328	1101	3632	9162	
	Plants, Flowers	0.2	0.2	60.0	60.0	3539	4413	46	41	8070	2123	2610	4771	52	24	76	1018	
	Animal skin, Horn	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Chemicals	1.0	5.3	60.0	60.0	1735	2163	2594	1020	7076	1011	1298	2339	1295	612	1907	4246	
	Non-splupated pro	37.3	5.9	60.0	60.0	16132	20120	2191	1183	39929	3679	12072	21751	1502	710	2212	23963	
	Subtotal					41620	51553	42676										

Estimated Cargo Throughput at Nakhon Sawan Truck Terminal in 2006

(tons/year)

Commodity Group	Commodity Breakdown	Rate(%)		Value(฿)		Cargo Volume in 2006					Cargo Volume by Truck Terminal								
		In	Out	BEK	Oth.	Inflow		Outflow		Total	Inflow			Outflow		Total			
						BEK	Others	BEK	Others		BEK	Others	Total	BEK	Others		Total		
Other Construc.	Asphalt	0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Construction brick	100.0%	0.0%	10.0%	10.0%	17776	26209	0	0	43986	17776	2621	4399	0	0	0	0	4399	
	Palm roofing	0.0%	0.0%	10.0%	10.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other const. mater	0.0%	100.0%	10.0%	10.0%	0	0	19203	16617	35820	0	0	0	1920	1662	3582	3582	3582	
	Subtotal					17776	26209	19203	16617	79805	17776	2621	4399	1920	1662	3582	7981	7981	
Vegetable & Fruit	Longan	0.0%	0.0%	30.0%	30.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rambutan	0.0%	0.0%	30.0%	30.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Bananas	0.0%	0.0%	30.0%	30.0%	0	0	0	191	271	0	0	21	57	81	81	81		
	Water melon	1.8%	0.0%	30.0%	30.0%	314	379	0	0	1290	93	294	387	0	0	0	387	387	
	Pineapple	0.0%	0.0%	30.0%	30.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Oranges	11.3%	1.3%	30.0%	30.0%	1981	6231	121	286	8619	554	1869	2464	36	26	122	2506	2506	
	Coconut	12.9%	10.9%	30.0%	30.0%	2269	7126	1047	2417	12309	679	2136	2816	314	713	1057	3873	3873	
	Lime, lemon	1.2%	0.0%	30.0%	30.0%	212	658	0	0	880	64	300	264	0	0	0	264	264	
	Sugarcane	60.0%	16.1%	0.0%	0.0%	10502	33022	3361	3220	48105	0	0	0	0	0	0	0	0	
	Fresh vegetables	10.2%	61.2%	30.0%	30.0%	1783	5692	5304	13966	27260	515	1682	2213	1771	1199	5991	8178	8178	
	Papaya	0.0%	0.0%	30.0%	30.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sweet potato	0.0%	10.9%	30.0%	30.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other fruits	2.6%	0.0%	30.0%	30.0%	453	1421	81	191	2149	136	427	563	24	57	81	641	641	
	Subtotal					17509	55052	9611	22806	105007	2102	6509	8713	2184	5876	8160	11071	11071	
	Beverages	Drinks	73.9%	55.9%	30.0%	30.0%	49152	41393	62	117599	208207	14036	12358	-21194	19	35260	35280	66492	66492
		Ice & icecreams	20.2%	11.7%	0.0%	0.0%	13509	11252	13	24528	43301	0	0	0	0	0	0	0	0
Pure water		6.0%	0.0%	30.0%	30.0%	4000	3332	0	0	7332	1200	1000	3200	0	0	0	3200	3200	
Alcohol & beer		0.0%	32.4%	30.0%	30.0%	0	0	36	68270	68306	0	0	0	11	20481	20492	20492	20492	
Milk		0.0%	0.0%	30.0%	30.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tea, Coffee		0.0%	0.0%	60.0%	60.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fruit flavor		0.0%	0.0%	30.0%	30.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
Subtotal						65561	55778	111	210597	323246	16036	12358	23392	30	55761	55790	85183	85183	
Processed Foods		Salt, Fish source	11.1%	51.8%	60.0%	60.0%	9585	20667	933	62662	93047	6751	12400	18151	3560	37317	41271	59128	59128
	Onion, Garlic	10.6%	0.0%	60.0%	60.0%	2154	5291	0	0	7745	1472	3174	4687	0	0	0	4687	4687	
	Dry fish	0.0%	0.7%	60.0%	60.0%	0	0	18	824	902	0	0	0	47	494	541	541	541	
	Canned food	3.3%	0.0%	60.0%	60.0%	767	1692	0	0	2420	460	982	1452	0	0	0	1452	1452	
	Eggs	2.3%	0.0%	60.0%	60.0%	167	1592	0	0	2120	169	992	1452	0	0	0	1452	1452	
	Meat	0.0%	0.0%	10.0%	10.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other grocery	61.4%	47.8%	60.0%	60.0%	9585	20667	5500	58371	94022	5753	12400	18151	3100	30962	38262	56113	56113	
	Subtotal					23150	49931	1111	121957	206556	13895	23950	43853	6906	73174	80080	123934	123934	
	Animals	Chicken	50.8%	7.9%	0.0%	0.0%	876	8447	500	1271	11044	0	0	0	0	0	0	0	0
Duck, Goose		0.0%	6.6%	0.0%	0.0%	0	0	416	1059	1475	0	0	0	0	0	0	0	0	
Cow		0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
Buffalo		0.0%	85.1%	0.0%	0.0%	0	0	5373	13660	19033	0	0	0	0	0	0	0	0	
Pig		0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other animals		41.2%	0.0%	0.0%	0.0%	578	5913	0	0	6191	0	0	0	0	0	0	0	0	
Subtotal						1461	14369	628	15949	28043	0	0	0	0	0	0	0	0	
Fish	Fresh fish	37.5%	32.3%	0.0%	0.0%	5239	305	112	5361	11077	0	0	0	0	0	0	0	0	
	Prava	0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Shells	0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Crab	0.0%	0.0%	0.0%	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other aquatic ani.	2.5%	7.7%	0.0%	0.0%	134	313	0	117	602	0	0	0	0	0	0	0	0	
Subtotal					5436	313	121	5408	11679	0	0	0	0	0	0	0	0		
Fertilis. & Feed	Fertilizers	67.6%	1.0%	0.0%	0.0%	68965	24192	1803	198	93368	0	0	0	0	0	0	0	0	
	Animal feed	32.4%	95.2%	0.0%	0.0%	33953	11695	26066	2966	84192	0	0	0	0	0	0	0	0	
	Subtotal					102918	35887	27869	4166	180150	0	0	0	0	0	0	0	0	
Household Appl.	Clothes	2.7%	7.1%	60.0%	60.0%	1012	875	1000	1582	4507	625	535	1150	605	919	1554	2704	2704	
	Cosmetic	0.1%	2.1%	60.0%	60.0%	3126	2624	316	521	6615	1874	1575	3451	202	316	518	3969	3969	
	Medicine & suppl.	0.0%	0.0%	60.0%	60.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Furniture	20.7%	61.2%	60.0%	60.0%	7815	6563	8732	13710	36621	4689	3930	8627	5239	8226	13466	22093	22093	
	Electrical appl.	23.6%	1.2%	60.0%	60.0%	9100	7612	168	264	17174	5160	4585	10046	101	358	259	10305	10305	
	Stationaries	10.2%	20.2%	60.0%	60.0%	7016	5892	1030	6328	23261	4210	3535	7745	1410	3797	6215	13660	13660	
	Other households	27.2%	0.0%	60.0%	60.0%	10524	8938	0	0	19462	5315	5303	10618	0	0	0	11618	11618	
	Subtotal					38624	32437	14274	22611	107716	23174	19162	42637	8561	13417	22011	44644	44644	
Other Manufact.	Containers	51.1%	63.7%	60.0%	60.0%	247236	163215	89730	305900	735187	168360	97929	246359	11843	183009	184853	411312	411312	
	Machinery	11.6%	8.7%	60.0%	60.0%	53169	35100	2699	41686	132652	21901	21960	23961	1619	15011	26610	79531	79531	
	House Equip. more	0.0%	7.1%	60.0%	60.0%	0	0	2218	31730	38986	0	0	0	0	0	0	22192	22192	
	Mir. ready made pro	34.3%	20.3%	60.0%	60.0%	156847	103545	6294	97267	363553	91108	62122	156235	3777	58360	62137	218372	218372	
	Subtotal					457250	301860	30978	478699	1268178	214350	183116	455466	18587	202214	305001	761267	761267	
All Others	Vegetable oil	11.4%	0.0%	60.0%	60.0%	5504	10811	0	0	16315	3302	6505	3807	0	0	0	9307	9307	
	Rubber	0.0%	15.5%	30.0%	30.0%	0	0	10277	32277	42554	0	0	0	3003	9683	12766	12766	12766	
	Cigarettes	1.1%	0.0%	0.0%	0.0%	2293	6517	0	0	8811	0	0	0	0	0	0	0	0	
	Beet, Tobacco leaf	0.8%	0.0%	0.0%	0.0%	215	512	0	0	717	0	0	0	0	0	0	0	0	
	Fibers	4.5%	10.3%	60.0%	60.0%	4562	9034	6854	21514	41994	2152	5421	6134	4111	12611	17022	25194	25194	
	Engines, Machines	10.9%	36.6%	30.0%	30.0%	9120	17970	24208	76029	127314	2738	5391	8132	7262	22809	30071	38203	38203	
	Plants, Flowers	0.0%	0.0%	60.0%	60.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Animal skin, Horn	0.0%	0.0%	60.0%	60.0%	0	0	13103	41036	54738	0	0	0	8222	25				

Estimated Cargo Throughput at Nakhon Ratchasima Truck Terminal
in 2006

(tons/year)

Commodity Group	Commodity Breakdown	Rate(%)				Cargo Volume in 2006					Cargo Volume by Truck Terminal						
		In		Out		Inflow		Outflow		Total	Inflow			Outflow			Total
		In	Out	BEK	Others	BEK	Others	BEK	Others		Total	BEK	Others	Total			
Other Construc.	Asphalt	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction brick	54.5	37.0	10.0	10.0	1466	0	590	16309	18458	1667	0	1667	595	16309	16995	18452
	Palis roofing	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0
	Other const. mater	45.5	53.0	10.0	10.0	1224	0	10115	27629	30056	1222	0	1222	1012	27663	28875	30097
	Subtotal					26892	0	16046	41258	46486	2689	0	2689	1607	41253	46559	46519
Vegetable & Fruit	Longan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0
	Rambutan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0
	Bananas	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0
	Water melon	1.6	0.3	30.0	30.0	290	1673	24	60	2065	45	560	505	13	507	20	615
	Pineapple	0.3	0.0	30.0	30.0	213	1195	0	0	1408	54	359	423	0	423	0	423
	Oranges	15.2	0.0	30.0	30.0	10139	56171	0	0	66310	2042	17031	20073	0	0	0	20073
	Coconut	14.2	1.3	30.0	30.0	9249	51791	970	2760	61771	2715	15537	18312	291	820	1119	19431
	Lime, Lemon	0.3	0.0	30.0	30.0	5216	27600	0	0	32816	1601	896	10565	0	0	0	10565
	Sugarcane	1.3	0.0	0.0	0.0	3202	17928	0	0	21130	0	0	0	0	0	0	0
	Fresh vegetables	24.8	13.1	30.0	30.0	16106	90635	21159	88507	226508	4856	27191	22046	3342	26516	35910	67961
	Papaya	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0
	Sweet potato	14.2	15.2	30.0	30.0	9249	51791	35601	101202	197926	2715	15537	18312	10600	30781	41065	59377
	Other fruits	12.9	6.0	30.0	30.0	8386	43011	1365	12419	71296	2519	14103	16623	1310	3726	5035	31651
	Subtotal					64959	263716	72316	242737	706750	18527	103742	122270	21696	61721	83417	205685
Beverages	Drinks	69.9	23.5	30.0	30.0	92372	171691	2269	36625	307219	27659	51418	79148	2101	10907	13168	92316
	Ice & icedream	3.0	3.5	0.0	0.0	4911	8384	825	4150	17603	0	0	0	0	0	0	0
	Pure water	1.3	7.0	30.0	30.0	1759	3267	600	3062	8695	520	900	1508	102	919	1101	2608
	Alcohol & beer	27.4	0.0	30.0	30.0	11623	77300	0	0	118931	12107	23193	35679	0	0	0	35679
	Milk	6.2	0.0	30.0	30.0	9673	17966	0	0	27639	2902	5300	8232	0	0	0	8232
	Tea, Coffee	1.2	0.0	0.0	0.0	1759	3267	0	0	5025	2025	1900	3015	0	0	0	3015
	Fruit flavor	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0
	Subtotal					151650	281686	8702	43846	488832	41611	82971	127641	2363	11906	14269	111910
Processed Foods	Salt, Fish sauce	63.8	7.3	60.0	60.0	22900	286337	6030	41672	433432	13793	177002	191595	11661	26803	69461	260059
	Onion, Garlic	7.1	12.7	60.0	60.0	2543	32786	120555	77569	234631	1526	19672	21190	13339	46641	110000	140070
	Dry fish	5.0	0.0	60.0	60.0	1956	25220	0	0	27177	1174	15132	16306	0	0	0	16306
	Canned food	14.2	0.0	60.0	60.0	3136	56803	0	0	71239	3091	29722	42000	0	0	0	42000
	Eggs	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0
	Nut	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0
	Other grocery	9.5	60.0	60.0	60.0	3121	44135	75701	487596	1292926	2051	26481	28535	46480	292531	717220	775755
	Subtotal					38017	461682	317810	609797	2058337	21626	278009	300470	56886	365810	934561	1233002
Animals	Chicken	82.8	26.1	0.0	0.0	2950	105747	11930	26381	147021	0	0	0	0	0	0	0
	Duck, Goose	0.0	15.7	0.0	0.0	0	0	6972	15318	22290	0	0	0	0	0	0	0
	Cow	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Buffalo	17.5	50.0	0.0	0.0	631	22650	26956	59569	109819	0	0	0	0	0	0	0
	Pig	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Other animals	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Subtotal					3593	128407	48825	101267	279092	0	0	0	0	0	0	0
Fish	Fresh fish	100.0	100.0	0.0	0.0	11703	10299	490	14030	39610	0	0	0	0	0	0	0
	Prava	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Shells	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Crab	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Other aquatic ani.	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Subtotal					11703	10299	490	14030	39610	0	0	0	0	0	0	0
Fertills. & Feed	Fertilizers	2.0	10.7	0.0	0.0	8913	8966	7130	86507	109435	0	0	0	0	0	0	0
	Animal feed	98.0	89.3	0.0	0.0	326572	430712	59441	721210	1531943	0	0	0	0	0	0	0
	Subtotal					335485	439678	66571	807727	1647378	0	0	0	0	0	0	0
Household Appl.	Clothes	3.5	0.0	60.0	60.0	2656	970	276	600	4503	1556	602	2176	160	360	526	2102
	Cosmetic	1.8	0.0	60.0	60.0	1362	490	0	0	1850	817	239	1116	0	0	0	1116
	Medicine & suppl.	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0
	Furniture	71.4	50.2	60.0	60.0	54081	13903	16350	35191	126331	32690	11942	41632	8010	21297	31106	75730
	Electrical appl.	1.3	2.1	60.0	60.0	1032	373	673	1457	3524	612	224	837	403	874	1277	2114
	Stationaries	5.1	0.0	60.0	60.0	4036	1492	0	0	5529	2452	896	3347	0	0	0	3347
	Other household	16.6	16.0	60.0	60.0	12666	1623	15241	33091	56532	7603	2776	10577	9140	19456	29003	59375
	Subtotal					76278	27861	32542	70645	207328	43767	16712	62485	18525	42307	61912	121397
Other Manufact.	Containers	90.3	100.0	60.0	60.0	314620	1204820	99172	331785	2210385	346777	722092	1067669	59503	199059	258562	1326231
	Enterlinals	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0
	House equip. more	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0
	Mix. ready made pro	9.5	0.0	60.0	60.0	60092	125591	0	0	186086	36055	75597	111652	0	0	0	111652
	Subtotal					634710	1330811	99172	331785	2396471	380832	798189	1179320	59503	199059	258562	1437803
All Others	Vegetable oil	1.3	16.6	60.0	60.0	950	4543	19051	120151	146643	530	2726	3255	11531	12091	8552	85186
	Rubber	16.7	5.0	30.0	30.0	5876	19973	5715	36045	101610	2963	11992	17955	1715	10014	12520	30003
	Cigarettes	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0
	Retal, Tobacco leaf	10.3	2.1	0.0	0.0	7632	20616	2301	15019	63610	0	0	0	0	0	0	0
	Fibers	1.3	12.2	60.0	60.0	890	4543	13097	80111	105223	630	2726	3255	8382	92667	61240	61514
	Engines, Machines	65.0	55.9	30.0	30.0	6790	231695	64299	105510	747294	13737	69500	83245	19200	121653	140903	221100
	Plants, Flowers	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0
	Animal skin, Horn	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0
	Chemicals	0.0	0.0	60.0	60.0	530	2726	0	0	3165	321						

Estimated Cargo Throughput at Khon Kaen Truck Terminal in 2006

(tons/year)

Commodity Group	Commodity Breakdown	Rate(%)		Utiliza.(%)		Cargo Volume in 2006					Cargo Volume by Truck Terminal							
		In	out	RRR	Oth.	Inflow		Outflow		Total	Inflow			Outflow		Total		
						RRR	Others	RRR	Others		RRR	Others	Total	RRR	Others		Total	
Other Construc.	Asphalt	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Construction brick	0.0	0.0	10.0	10.0	0	0	12143	0	12143	0	0	1214	0	0	1214	1214	
	Palm roofing	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other const. water	100.0	0.0	10.0	10.0	20699	0	1201	0	21900	2070	0	2070	120	0	120	2190	
	Subtotal					20699	0	12243	0	24043	2070	0	2070	1334	0	1334	2404	
Vegetable & Fruit	Longan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Banabutan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Bananas	0.2	0.0	30.0	30.0	35	131	0	0	207	23	39	62	0	0	0	62	
	Water melon	21.2	0.0	30.0	30.0	7363	12802	0	0	20155	2209	3011	6050	0	0	0	6050	
	Pineapple	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Oranges	0.0	1.5	30.0	30.0	0	0	573	279	852	0	0	0	172	111	286	286	
	Coconut	11.9	9.0	30.0	30.0	3621	6256	0	0	9877	1046	1409	2975	0	0	0	2975	
	Line, Lemon	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sugarcane	3.5	0.0	0.0	0.0	3018	5247	0	0	8264	0	0	0	0	0	0	0	
	Fresh vegetables	21.3	15.0	30.0	30.0	2394	12654	5764	3013	23824	2218	3056	6074	1129	1144	2073	8917	
	Papaya	16.6	14.2	30.0	30.0	9055	9700	6462	3599	22814	1516	2636	4152	1632	1000	2712	6865	
	Sweet potato	11.7	21.8	30.0	30.0	3576	6217	12172	8951	30017	1073	1865	2938	3652	2415	6067	9005	
	Other fruits	1.2	17.5	30.0	30.0	362	630	13356	8496	24843	109	189	298	4307	2819	7155	7153	
	Subtotal					30465	51965	30206	25330	141094	8234	14315	22550	11692	7601	19093	41643	
	Beverages	Bottle	69.6	32.3	30.0	30.0	68399	20810	2916	21614	166720	29520	6243	25763	801	22301	23268	50031
		Ice & icecream	5.1	1.5	0.0	0.0	4324	1516	130	3101	10035	0	0	0	0	0	0	0
		Pure water	0.6	6.9	30.0	30.0	623	160	670	15964	17407	107	57	244	100	4700	4976	5222
Alcohol & beer		23.8	54.5	30.0	30.0	23360	7197	6974	125977	161118	7000	2132	9140	1492	27993	39285	48426	
Milk		0.6	3.7	30.0	30.0	623	190	234	8168	9615	107	57	244	100	2540	2641	2804	
Tea, Coffee		0.0	1.3	60.0	60.0	0	0	315	2915	3030	0	0	0	63	1719	1818	1818	
Fruit flavor		0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
Subtotal						99989	29013	9133	231349	368275	21902	8109	36201	2731	69150	71900	100381	
Processed Foods		Salt, Fish rouse	16.0	36.3	60.0	60.0	7035	29368	26829	26655	69887	4221	17621	21042	16098	15993	32001	53932
		Onion, Garlic	4.0	0.0	60.0	60.0	120	3099	0	0	3767	437	1023	2260	0	0	0	2260
	Dry fish	7.1	0.1	60.0	60.0	1081	4511	90	95	5782	648	2706	3355	57	67	115	3469	
	Canned food	1.0	0.0	60.0	60.0	153	640	0	0	793	32	304	426	0	0	0	426	
	Eggs	0.5	6.5	60.0	60.0	56	224	4193	4760	9878	32	134	167	2075	2056	5731	5897	
	Heat	0.3	0.0	10.0	10.0	46	192	0	0	238	5	10	21	0	0	0	21	
	Other grocery	10.5	57.1	60.0	60.0	6159	25801	42161	81007	116128	2720	15528	19248	25296	25132	50428	69677	
	Subtotal					15296	62654	73077	73391	226424	9150	30216	42721	46326	40338	80664	135735	
	Animals	Chicken	0.2	63.3	0.0	0.0	68	4421	13555	17244	33292	0	0	0	0	0	0	0
Duck, Goose		3.7	0.0	0.0	0.0	31	2013	0	0	2042	0	0	0	0	0	0	0	
Cow		7.5	32.3	0.0	0.0	62	4022	6002	9076	19242	0	0	0	0	0	0	0	
Buffalo		20.9	0.0	0.0	0.0	133	11262	0	0	11435	0	0	0	0	0	0	0	
Pig		22.1	0.0	0.0	0.0	186	12066	0	0	12252	0	0	0	0	0	0	0	
Other animals		37.3	3.3	0.0	0.0	309	20111	608	308	21936	0	0	0	0	0	0	0	
Subtotal						829	53896	16245	27220	100190	0	0	0	0	0	0	0	
Fish		Fresh fish	95.2	100.0	0.0	0.0	5247	5481	0	0	10728	0	0	0	0	0	0	0
	Prawn	0.1	0.0	0.0	0.0	24	25	0	0	50	0	0	0	0	0	0	0	
	Shelly	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Crab	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other aquatic ani.	4.4	0.0	0.0	0.0	243	291	0	0	437	0	0	0	0	0	0	0	
Subtotal					5515	5797	0	0	11221	0	0	0	0	0	0	0		
Fertiliz. & Feed	Fertilizers	13.2	5.1	0.0	0.0	23045	97050	1816	12631	101149	0	0	0	0	0	0	0	
	Animal feed	66.7	33.9	0.0	0.0	259004	6374753	28143	199779	6751503	0	0	0	0	0	0	0	
	Subtotal					179953	7352803	29959	208410	7772032	0	0	0	0	0	0	0	
Household Appli.	Clothes	11.1	3.0	60.0	60.0	1366	3524	4130	915	12982	2607	2114	4721	2403	585	3058	2700	
	Cosmetic	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Medicine & suppl.	0.5	1.2	60.0	60.0	137	113	1670	394	2303	305	86	392	1002	236	1238	1430	
	Furniture	20.0	5.0	60.0	60.0	10952	8040	8131	1916	29800	6572	5328	11900	1879	1150	6028	17928	
	Electrical appli.	12.9	6.2	60.0	60.0	5052	1096	8422	3905	19555	3631	2150	5609	5053	1194	6247	11733	
	Stationeries	31.7	11.3	60.0	60.0	13602	11039	97211	22909	147550	8161	6617	14778	50326	33719	72072	86850	
	Other household	12.9	12.1	60.0	60.0	5052	1096	16698	3935	25781	3033	2450	5109	10019	2361	12380	17869	
	Subtotal					39180	21769	136269	32114	239332	23509	19061	42570	81761	19260	101020	143599	
	Other Manufact.	Containers	91.1	78.7	60.0	60.0	400822	943776	24336	123917	912851	252493	206248	650741	14602	74360	86970	547711
Enterains		6.9	1.8	60.0	60.0	31003	25321	569	2099	59795	10602	15195	33196	312	1740	2081	35877	
House equip.move		0.0	0.2	60.0	60.0	0	0	71	362	434	0	0	0	63	217	260	260	
Mix.ready made pro		0.0	21.3	60.0	60.0	0	0	6740	34130	41150	0	0	0	4055	20558	24714	24714	
Subtotal					400822	969097	24377	161638	1014270	271095	221443	652537	19012	96982	116025	609562		
All Others	Vegetable oil	2.1	0.0	60.0	60.0	934	362	0	0	1296	569	217	277	0	0	0	277	
	Rubber	3.4	3.8	30.0	30.0	1470	573	1210	1260	4529	444	172	615	163	300	743	1359	
	Cigarettes	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Natal, Tobacco leaf	0.4	0.0	0.0	0.0	156	60	3025	3170	6411	0	0	0	0	0	0	0	
	Fibers	2.2	1.5	60.0	60.0	973	377	545	571	2165	504	226	810	327	342	659	1679	
	Engines, Machines	13.3	21.6	30.0	30.0	5719	3216	7223	7071	22920	1716	665	2301	2197	2301	4498	6879	
	Plants, Flowers	1.1	0.0	60.0	60.0	584	226	0	0	810	160	136	406	0	0	0	406	
	Animal skin, Horn	0.0	3.7	60.0	60.0	3501	1357	308	951	6717	2101	814	2915	545	571	1115	1030	
	Chemicals	51.7	53.1	60.0	60.0	22643	8771	10004	10859	60200	13600	5204	10050	10003	11316	22110	60950	
	Non-attipated pro	17.0	8.5	60.0	60.0	7781	3011	2075	3011	16842	1669	1809	6478	1725	1807	3531	10009	
	Subtotal					43768	16960	330										

Estimated Cargo Throughput at Hat Yai Truck Terminal in 2006

(tons/year)

Commodity Group	Commodity Breakdown	Rate(%)		Utiliz.(%)		Cargo Volume in 2006					Cargo Volume by Truck Terminal							
		In	Out	BEK	Oth.	Inflow		Outflow		Total	Inflow			Outflow		Total		
						BEK	Others	BEK	Others		BEK	Others	Total	BEK	Others		Total	
Other Construc.	Asphalt	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Construction brick	23.1	0.0	10.0	10.0	1067	2263	0	0	4131	187	226	413	0	0	0	413	
	Pale roofing	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other const. mater	26.9	100.0	10.0	10.0	6225	7544	1550	18369	23695	622	754	1377	156	1837	1993	3370	
	Subtotal					8092	9902	1550	18369	27827	809	981	1790	156	1837	1993	3783	
Vegetable & Fruit	Longan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rambutan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Bananas	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Water melon	0.0	15.1	30.0	30.0	27	256	308	359	922	0	77	85	90	120	210	295	
	Pineapple	0.7	1.3	30.0	30.0	23	228	58	130	475	7	67	74	29	59	88	143	
	Oranges	31.6	23.1	30.0	30.0	1119	10593	163	615	12783	333	3170	3511	159	185	324	3635	
	Coconut	10.1	6.0	30.0	30.0	366	3488	131	373	4158	110	1016	1126	19	52	71	1217	
	Lime, Lemon	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sugarcane	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Fresh vegetables	61.6	40.1	30.0	30.0	1918	18106	796	1057	22878	576	6492	6067	239	317	556	6623	
	Papaya	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Sweet potato	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other fruits	1.9	3.3	30.0	30.0	67	610	195	269	1163	29	192	221	59	78	137	349	
	Subtotal					3522	33509	1984	2635	41638	1053	10068	11121	595	730	1326	12191	
	Beverages	Drinks	10.1	11.1	30.0	30.0	2193	0	656	25190	47336	6564	0	6564	104	1551	1751	44324
Tea & Icecream		11.1	10.3	0.0	0.0	4061	0	242	24223	28926	0	0	0	0	0	0	0	
Pure water		15.7	10.0	30.0	30.0	1077	0	166	6264	11296	1463	0	1463	50	1879	1929	3192	
Alcohol & beer		0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
Milk		0.0	0.1	30.0	30.0	271	0	90	3531	3998	81	0	81	39	585	1118	1893	
Tea, Coffee		0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	
Fruit flavor		0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	
Subtotal						31992	0	1570	59267	92930	8108	0	8108	270	10525	10804	18912	
Processed Foods		Salt, Fish sauce	11.4	0.3	60.0	60.0	2504	1757	123	42	4422	1509	1051	2557	77	25	102	2693
	Onion, Garlic	15.6	18.0	60.0	60.0	3689	2580	8975	2916	16250	2190	1511	3727	5145	1760	7213	10950	
	Dry fish	10.1	0.5	60.0	60.0	4106	3150	257	63	7514	1694	1050	4585	154	50	204	4781	
	Canned food	14.9	69.0	60.0	60.0	3215	2190	24097	11127	51707	1865	1279	3144	20322	6796	21720	31071	
	Eggs	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Meat	0.0	0.0	30.0	30.0	0	0	2314	793	3063	0	0	0	231	75	307	307	
	Other grocery	36.7	7.4	60.0	60.0	4071	5664	3154	1119	18767	4040	3199	8241	2254	731	2983	11224	
	Subtotal					21999	15413	50416	16368	104220	12199	9263	24461	20932	9445	38520	60999	
	Animals	Chicken	61.0	0.0	0.0	0.0	0	90	0	0	90	0	0	0	0	0	0	0
		Duck, Goose	0.0	100.0	0.0	0.0	0	0	90	0	90	0	0	0	0	0	0	0
Cow		0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
Buffalo		0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
Pig		11.0	0.0	0.0	0.0	0	44	0	0	44	0	0	0	0	0	0	0	
Other animals		0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
Subtotal						0	142	90	0	233	0	0	0	0	0	0	0	
Fish	Fresh fish	12.0	59.1	0.0	0.0	2110	116189	39157	14553	176608	0	0	0	0	0	0	0	
	Prava	7.1	6.1	0.0	0.0	512	4790	4915	1514	14817	0	0	0	0	0	0	0	
	Shells	0.0	0.1	0.0	0.0	0	0	5021	2239	8160	0	0	0	0	0	0	0	
	Crab	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other aquatic ani.	0.1	25.6	0.0	0.0	10	161	16974	6311	23655	0	0	0	0	0	0	0	
	Subtotal					7662	124219	66203	24617	222701	0	0	0	0	0	0	0	
Fertiliz. & Feed	Fertilizars	13.0	20.7	0.0	0.0	61453	71303	17769	14983	169509	0	0	0	0	0	0	0	
	Animal feed	56.2	29.3	0.0	0.0	80226	91535	67352	57304	208822	0	0	0	0	0	0	0	
	Subtotal					141679	162838	85121	72287	478331	0	0	0	0	0	0	0	
Household Appl.	Clothes	0.1	0.1	60.0	60.0	134	91	1507	404	2536	80	54	135	301	483	1387	1521	
	Cosmetic	5.1	0.0	60.0	60.0	1036	1241	0	0	2083	1102	140	1050	0	0	0	1250	
	Medicine & suppl.	0.0	1.5	60.0	60.0	0	0	26	112	160	0	0	0	160	85	245	245	
	Furniture	18.5	37.0	60.0	60.0	6660	4522	6513	3530	21353	3996	2713	6709	3900	2323	6103	12812	
	Electrical appl.	3.3	11.1	60.0	60.0	3338	2260	2536	3353	9691	2003	3309	1522	812	2330	5696		
	Stationaries	10.4	26.3	60.0	60.0	3156	2550	4717	2517	13539	2253	1510	3783	2820	1510	4300	8124	
	Other households	55.4	12.7	60.0	60.0	20363	13829	2370	1311	37669	12218	8295	20513	1302	727	2089	22602	
	Subtotal					36086	24500	17930	9563	80081	21652	14700	31352	10788	5739	16497	52849	
Other Manufact.	Containers	87.9	55.1	60.0	60.0	55613	320904	20912	168109	1064268	329228	192482	525010	12585	161045	113551	618561	
	Entertain	3.0	0.0	60.0	60.0	19098	11059	0	0	30152	11459	6632	10891	0	0	0	18091	
	House equip. move	0.0	0.0	60.0	60.0	0	0	1920	15465	17197	0	0	0	1156	3939	10495	10495	
	Mir. ready made pro	3.2	28.9	60.0	60.0	57293	33164	9210	75710	174013	20376	13099	31271	5318	11826	50371	101568	
Subtotal					670104	365022	32015	258663	1288324	378262	219013	597376	19209	155210	174419	771394		
All Others	Vegetable oil	13.7	12.8	60.0	60.0	1654	41075	37873	18900	102503	393	2646	27638	2274	12710	31064	61502	
	Rubber	81.7	70.1	30.0	30.0	9862	262770	205322	102714	581169	2959	70431	81790	61747	30814	92561	174351	
	Cigarettes	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Betel, Tobacco leaf	1.2	0.0	0.0	0.0	110	3735	0	0	3845	0	0	0	0	0	0	0	
	Fibres	1.0	2.4	60.0	60.0	123	3268	6965	3176	13032	74	1961	2035	4479	2096	6255	8299	
	Engines, Machines	0.1	6.2	30.0	30.0	38	467	10310	9037	27621	5	140	145	5433	2711	8114	8269	
	Plants, Flowers	1.5	0.3	60.0	60.0	186	4949	958	179	6571	111	2963	3081	375	247	861	3942	
	Animal skin, Horn	0.0	0.0	60.0	60.0	0	0	0	0	0	0	0	0	0	0	0	0	
	Chemicals	0.1	6.4	60.0	60.0	20	467	12799	6387	10670	11	280	291	7679	2332	11511	11602	
	Non-stipulated pro	0.6	3.1	60.0	60.0	70	1660	10012	4947	16947	42	1222	1263	6097	2930	3095	10168	
	Subtotal					12070	321597	282532	145990	772188	4194	111747	115941	108311	54058	162418	278354	
	Total						900596	1057072	550051	607082 </								

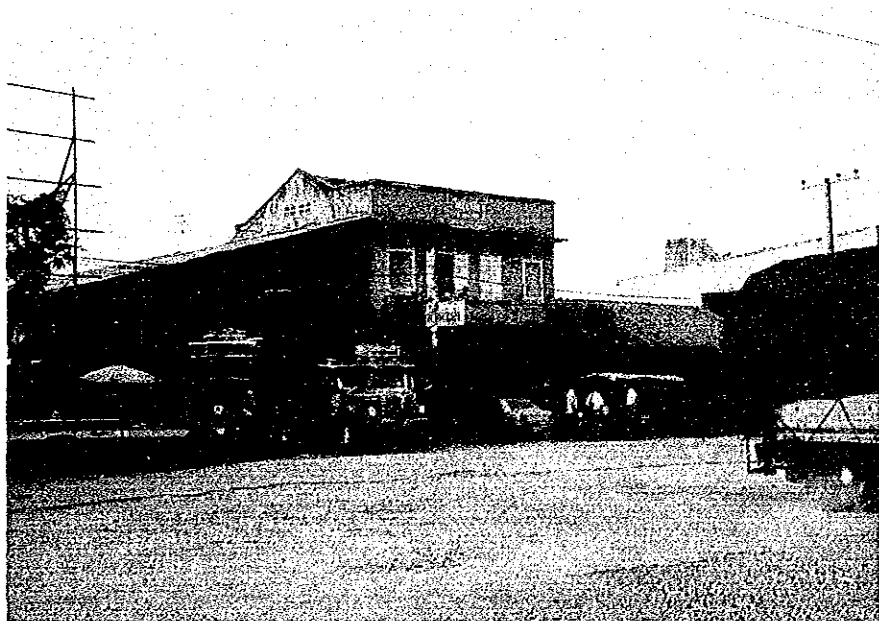
Estimated Cargo Throughput at Songkhla Truck Terminal in 2006

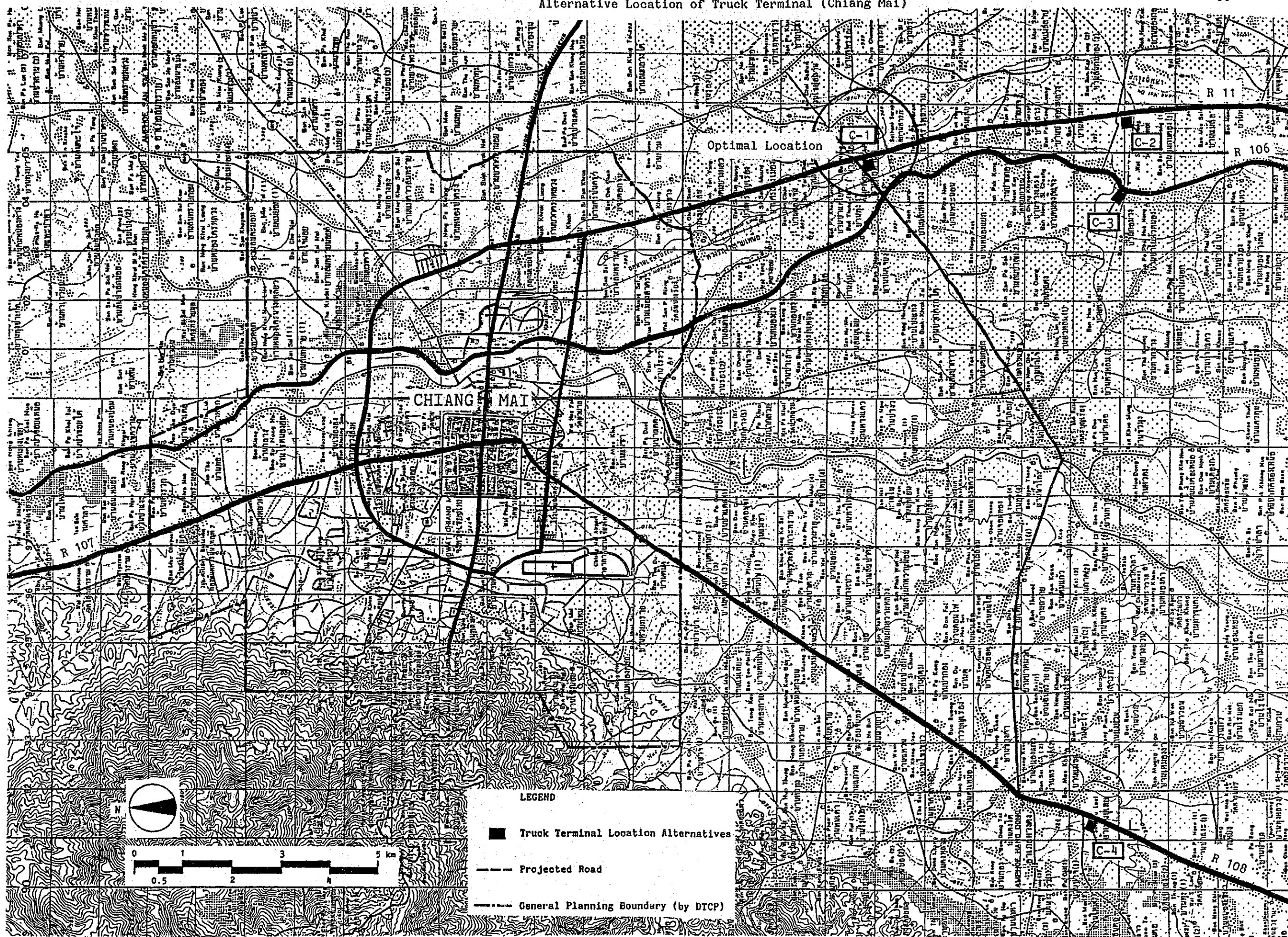
(tons/year)

Commodity Group	Commodity Breakdown	Rate(%)				Utiliz.(%)				Cargo Volume in 2006				Cargo Volume by Truck Terminal				
		in		out		Inflow	Outflow		Total	Inflow			Outflow			Total		
		in	out	RR	OTH		RR	Others		RR	Others	Total	RR	Others	Total			
Other Construc.	Asphalt	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction brick	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pala roofing	0.0	0.0	10.0	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other const. water	100.0	100.0	10.0	10.0	0	1688	0	10428	12116	0	163	163	0	1043	1043	1043	1212
	Subtotal					0	1688	0	10428	12116	0	163	163	0	1043	1043	1043	1212
Vegetable & Fruit	Longan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rambutan	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bananas	0.0	2.8	30.0	30.0	0	0	20	144	172	0	0	0	0	43	52	52	52
	Water melon	0.0	2.6	30.0	30.0	183	2214	26	133	2556	55	664	719	0	40	48	48	767
	Pineapple	12.3	30.6	30.0	30.0	282	3607	304	1548	5511	85	1022	1107	31	464	516	516	1662
	Oranges	22.3	1.1	30.0	30.0	520	6274	16	387	7251	156	1882	2038	23	116	139	139	2177
	Coconut	21.6	4.4	30.0	30.0	491	5933	43	221	6609	147	1780	1927	13	66	79	79	2001
	Lime, Lemon	1.3	0.0	30.0	30.0	42	511	0	0	553	13	153	166	0	0	0	0	166
	Sugarcane	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fresh vegetables	16.4	14.6	30.0	30.0	376	4542	143	730	5752	113	1363	1476	43	219	262	262	5737
	Papaya	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sweet potato	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other fruits	17.2	37.4	30.0	30.0	355	4769	371	1891	7427	139	1431	1569	111	562	679	679	2226
	Subtotal					2290	27651	992	5054	35987	607	8245	8852	298	1516	1814	1814	10796
Beverages	Drinks	93.2	70.5	30.0	30.0	18440	10576	0	17722	46117	5532	3173	8705	0	5319	5319	5319	14024
	Ice & Icecream	0.0	10.3	0.0	0.0	1316	772	0	2584	4659	0	0	0	0	0	0	0	0
	Pure water	0.0	17.9	30.0	30.0	0	0	0	4889	4889	0	0	0	0	1341	1341	1341	1341
	Alcohol & beer	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Milk	0.0	1.3	30.0	30.0	0	0	0	337	337	0	0	0	0	101	101	101	101
	Tea, Coffee	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fruit favor	0.0	0.0	30.0	30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Subtotal					19756	11348	0	25138	56272	5532	3173	8705	0	6161	6161	6161	15472
	Processed Foods	Salt, Fish course	16.4	0.0	0.0	0.0	1029	1236	0	0	2265	617	741	1358	0	0	0	0
Onion, Garlic		30.3	5.9	0.0	0.0	2205	2648	516	298	5767	1323	1589	2912	310	239	549	549	3160
Dry fish		1.2	0.0	0.0	0.0	74	88	0	0	162	44	53	97	0	0	0	0	97
Canned food		14.5	72.7	0.0	0.0	882	1059	6286	4927	13254	528	635	1163	3832	2956	6788	6788	7952
Eggs		2.2	2.0	0.0	0.0	132	159	178	137	506	79	95	175	107	82	189	189	363
Heat		0.1	0.0	10.0	10.0	22	26	0	0	48	2	3	5	0	0	0	0	5
Other grocery		28.5	19.1	0.0	0.0	1735	2693	1709	1318	6861	1041	1250	2290	1025	791	1816	1816	4206
Subtotal						6979	7298	8788	6790	28916	2636	4366	8002	5273	4064	9337	9337	17343
Animals		Chicken	66.1	44.1	0.0	0.0	0	11668	0	7605	19274	0	0	0	0	0	0	0
	Duck, Goose	40.8	55.6	0.0	0.0	0	8704	0	9307	18211	0	0	0	0	0	0	0	0
	Cow	3.1	0.0	0.0	0.0	0	653	0	653	1306	0	0	0	0	0	0	0	0
	Buffalo	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pig	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other animals	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Subtotal					0	21325	0	17312	38437	0	0	0	0	0	0	0	0
Fish	Fresh fish	81.2	62.3	0.0	0.0	1214	64050	19305	28561	101160	0	0	0	0	0	0	0	0
	Prawn	16.2	0.6	0.0	0.0	249	12810	1421	3948	14431	0	0	0	0	0	0	0	0
	Shells	0.0	1.0	0.0	0.0	0	0	151	147	608	0	0	0	0	0	0	0	0
	Crab	0.6	0.0	0.0	0.0	9	450	91	268	823	0	0	0	0	0	0	0	0
	Other aquatic ani.	2.0	27.6	0.0	0.0	31	1593	4563	12846	18833	0	0	0	0	0	0	0	0
Subtotal					1532	78802	16551	43970	143855	0	0	0	0	0	0	0	0	
Fertiliz. & Feed	Fertilizers	35.2	15.1	0.0	0.0	8106	12245	3051	9841	37212	0	0	0	0	0	0	0	0
	Animal feed	64.8	84.9	0.0	0.0	16991	31601	15823	55309	112394	0	0	0	0	0	0	0	0
	Subtotal					24997	43846	13373	65141	149606	0	0	0	0	0	0	0	0
Household Appl.	Clothes	3.4	19.9	0.0	0.0	73	472	92	1833	1870	61	283	327	55	710	735	735	1122
	Cosmetic	20.3	0.1	0.0	0.0	448	2482	1	15	3346	269	1729	1998	1	9	10	10	2006
	Medicine & suppli.	0.2	0.1	0.0	0.0	8	26	3	15	78	2	16	18	2	27	29	29	47
	Furniture	34.0	26.1	0.0	0.0	726	4690	120	1619	7158	437	2814	3251	72	972	1044	1044	4235
	Electrical appli.	9.5	0.7	0.0	0.0	203	1310	2	45	1561	122	786	908	2	27	29	29	937
	Stationeries	1.5	11.6	0.0	0.0	33	210	53	712	1008	20	126	145	32	428	460	460	605
	Other households	10.0	10.8	0.0	0.0	651	4192	187	3526	7557	391	2515	2906	112	1515	1627	1627	4531
	Subtotal					2141	13783	460	6196	22578	1284	8270	9554	276	3717	3993	3993	8367
Other Manufact.	Containers	82.5	50.8	0.0	0.0	80533	80989	3151	42518	207151	18320	18565	36889	1890	25511	27401	27401	224290
	Entertain	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	House equip. more	0.0	0.5	0.0	0.0	0	0	0	525	7084	7611	0	0	315	4252	4567	4567	
	Mix. ready made pro	17.5	40.7	0.0	0.0	12060	17144	2521	34014	70743	10236	10289	20525	1512	20109	21621	21621	42446
	Subtotal					92593	98037	8196	83619	285505	58556	58854	117411	3718	50171	53889	53889	171303
All Others	Vegetable oil	0.0	25.0	0.0	0.0	0	0	2540	12665	15206	0	0	0	1524	7599	9123	9123	
	Rubber	87.0	47.7	30.0	30.0	31490	271639	1705	23454	431287	9447	211492	120939	1111	7036	8148	8148	129386
	Cigaretter	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Stetol, Tobacco leaf	1.0	0.0	0.0	0.0	366	4319	0	0	1645	0	0	0	0	0	0	0	0
	Fibers	3.3	0.2	0.0	0.0	1189	14096	19	94	15338	714	8422	9135	11	56	68	68	3203
	Engines, Machines	9.3	26.3	0.0	0.0	1921	22671	2597	12947	49139	576	6802	7379	719	3884	4603	4603	12042
	Plants, Flowers	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Animal skin, Horn	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Chemicals	0.3	0.0	0.0	0.0	91	1080	0	0	1171	55	640	703	0	0	0	0	703
	Non-stipulated pro	3.2	0.0	0.0	0.0	1153	13605	0	0	14757	692	8163	8854	0	0	0		

APPENDIX 7

APPENDICES FOR CHAPTER 7



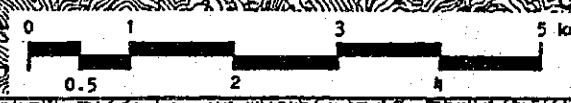


CHIANG MAI

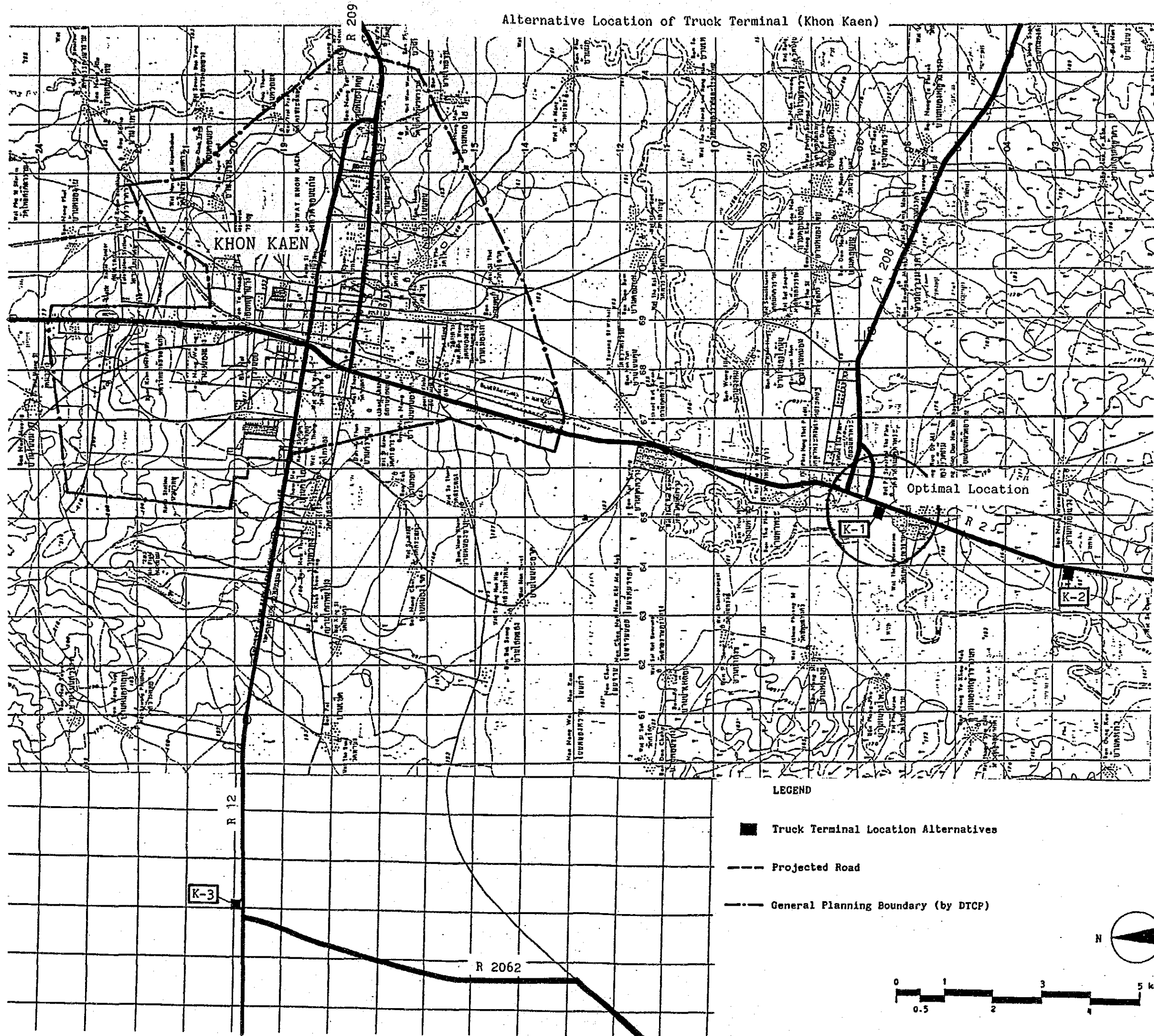
Optimal Location

LEGEND

- Truck Terminal Location Alternatives
- - - Projected Road
- General Planning Boundary (by DTCP)

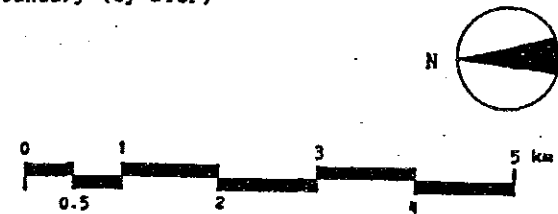


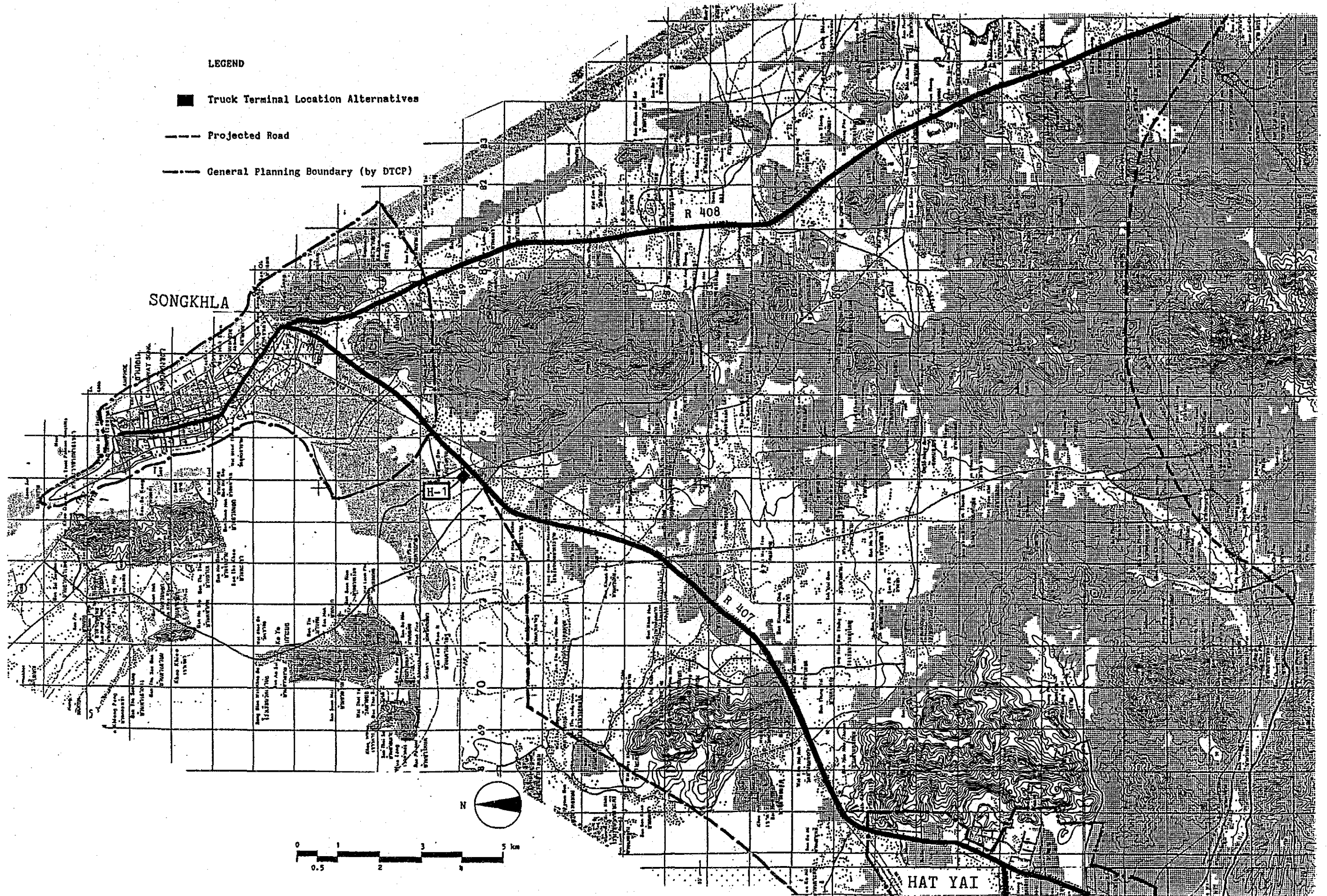
Alternative Location of Truck Terminal (Khon Kaen)

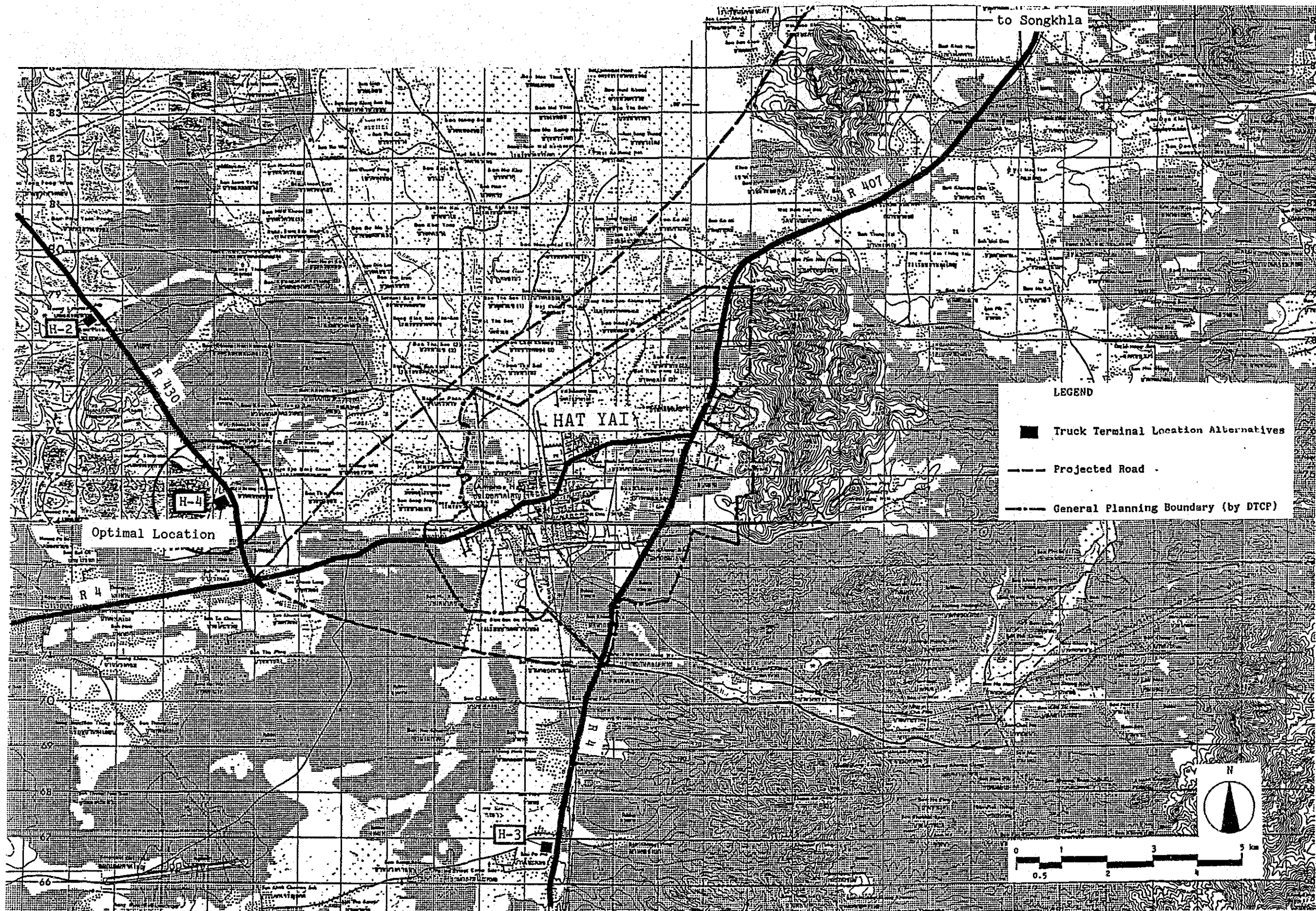


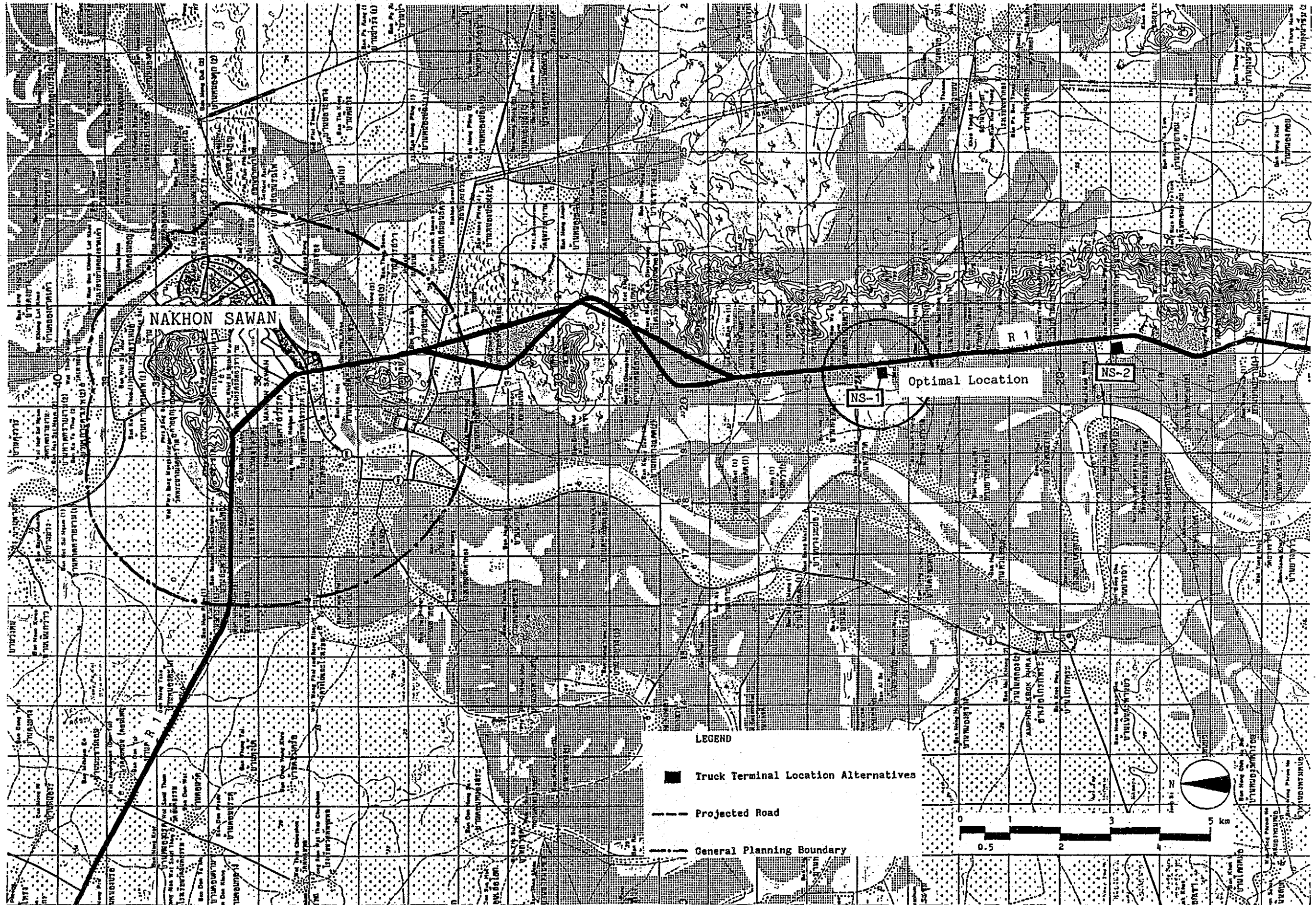
LEGEND

- Truck Terminal Location Alternatives
- Projected Road
- General Planning Boundary (by DTCP)

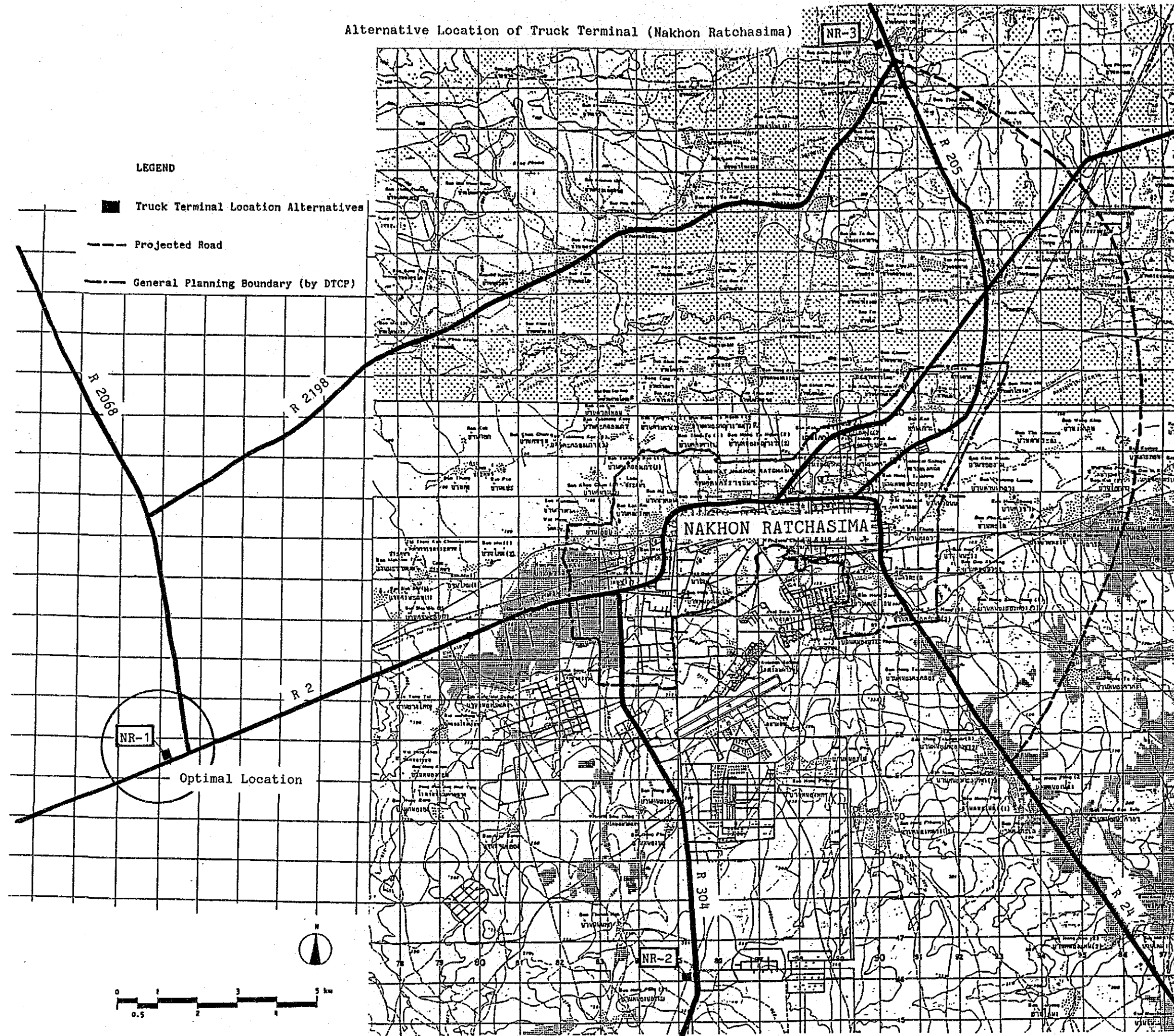








Alternative Location of Truck Terminal (Nakhon Ratchasima)



Comparison of Alternative Locations (Chiang Mai)

Checking Point \ Alternatives	Alternatives				Remarks
	C-1	C-2	C-3	C-4	
Accessibility to CBD	A	B	C	C	
Strategic point on transportation	A	A	B	C	
Condition of access road	A	A	B	B	
Land acquisition cost	A	A	B	B	
Construction Cost	A	A	A	A	

Rating : A - Excellent
 B - Good
 C - Fair

Comparison of Alternative Locations (Khon Kaen)

Checking Point \ Alternatives	Alternatives			Remarks
	K-1	K-2	K-3	
Accessibility to CBD	A	B	A	
Strategic point on transportation	A	A	B	
Condition of access road	A	A	A	
Land acquisition cost	A	A	A	
Construction cost	A	A	A	

Rating : A - Excellent
 B - Good
 C - Fair

Comparison of Alternative Locations (Hat Yai/Songkhla)

Checking Point \ Alternatives	Alternatives				Remarks
	H-1	H-2	H-3	H-4	
Accessibility to CBD	A	B	A	A	
Strategic point on transportation	C	A	B	A	
Condition of access road	B	A	A	A	
Land acquisition cost	B	A	C	A	
Construction cost	A	A	A	A	

Rating : A - Excellent
 B - Good
 C - Fair

Comparison of Alternative Locations (Nakhon Sawan)

Checking Point \ Alternatives	Alternatives				Remarks
	NS-1	NS-2			
Accessibility to CBD	A	B			
Strategic point on transportation	A	A			
Condition of access road	A	A			
Land acquisition cost	A	A			
Construction cost	A	C			

Rating : A - Excellent
 B - Good
 C - Fair

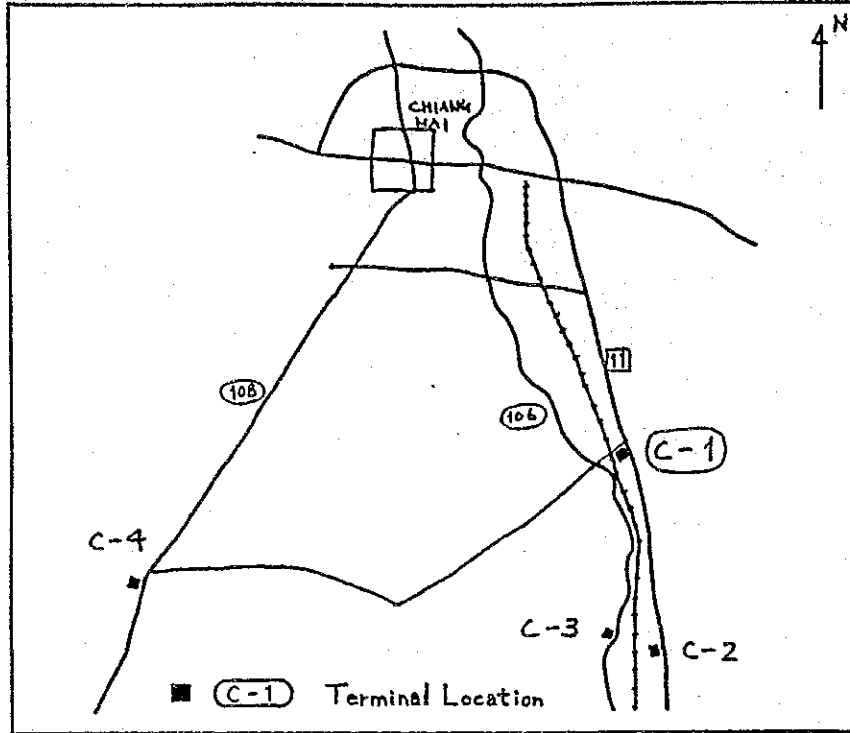
Comparison of Alternative Locations (Nakhon Ratchasima)

Alternatives Checking Point	NR-1	NR-2	NR-3			Remarks
Accessibility to CBD	A	A	A			
Strategic point on transportation	A	C	B			
Condition of access road	A	A	C			
Land acquisition cost	B	A	B			
Construction cost	A	A	A			

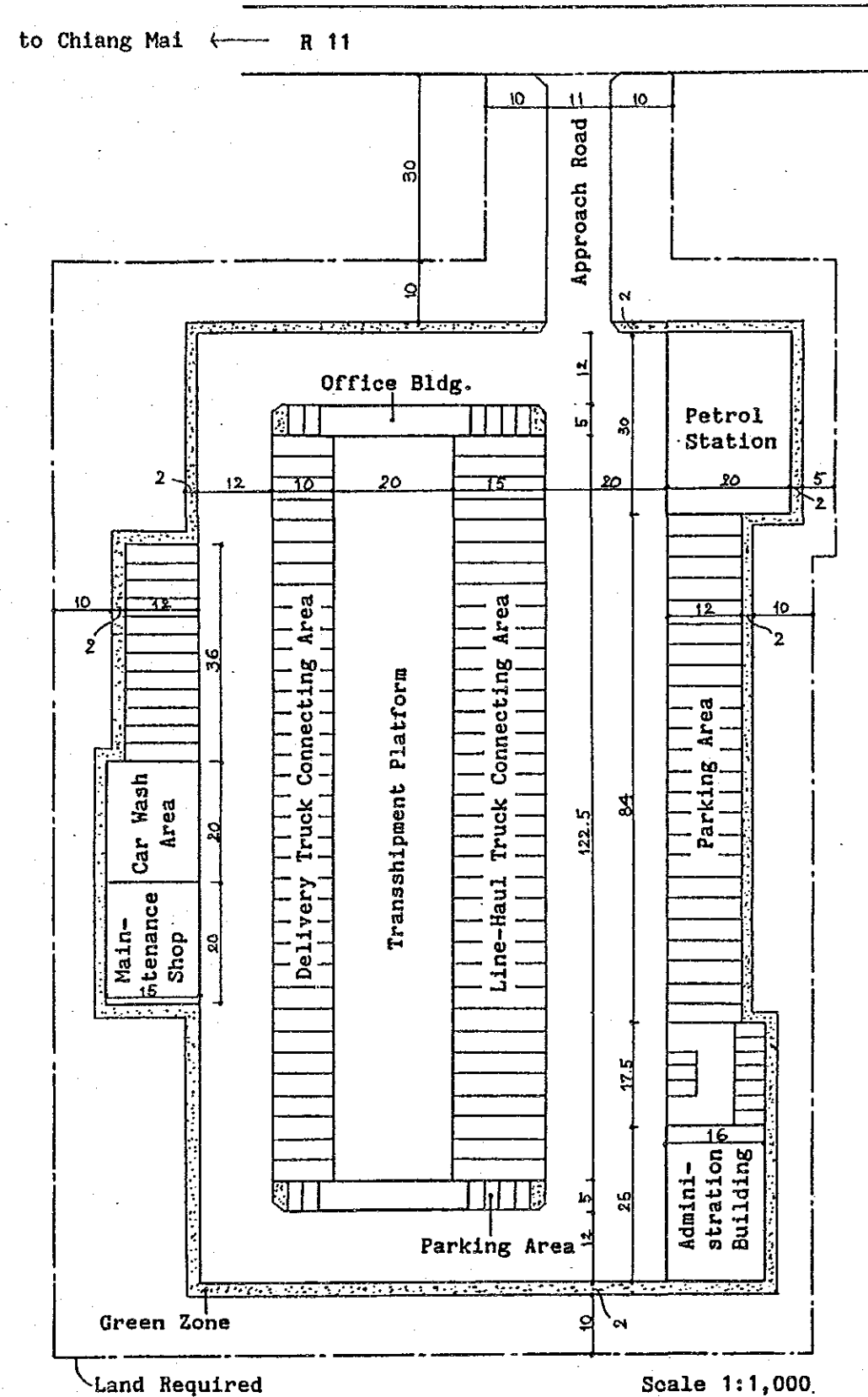
Rating : A - Excellent
 B - Good
 C - Fair

Layout of Truck Terminal (Chiang Mai)

Key Map



35 BERTHS TRUCK TERMINAL



Facilities

Facilities	Area (m ²)
Transshipment Platform	2,450
Aprons	3,062.5
Administration Building	400
Office Building	250
Petrol Station	600
Maintenance Shop	300
Car Wash Area	300
Parking Area	1,440
Road Way	6,110
Others	1,564
Total	16,476.5

(Approach Road) 440 m²

Land Required

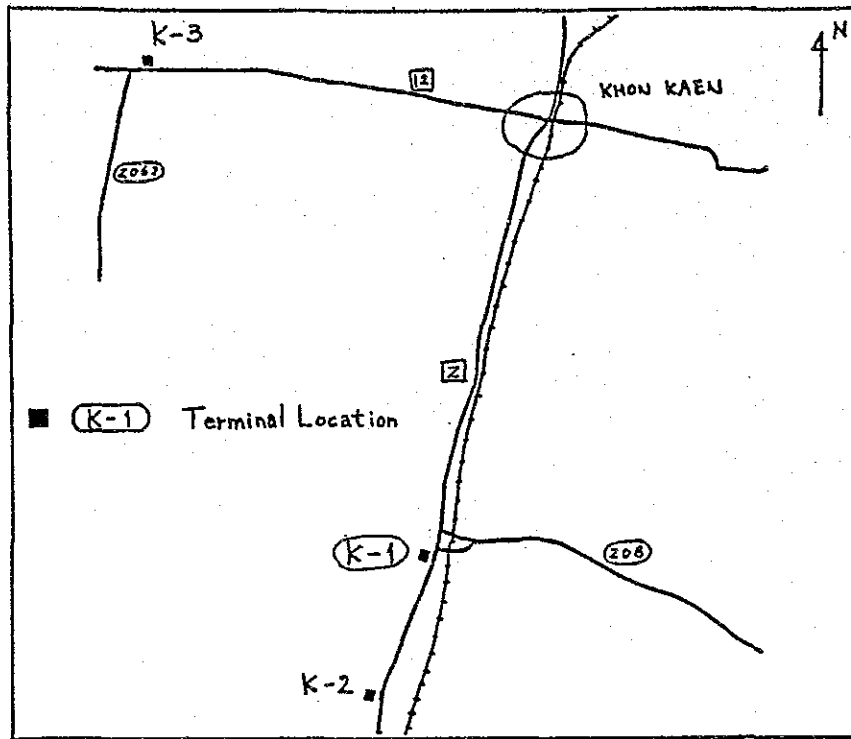
Distance from Road Side	Area (m ²)
~ 40 m	2,210
40 ~ 80 m	5,117
80 m ~	16,312.5
Total	23,639.5

Land Required

Scale 1:1,000.

Layout of Truck Terminal (Khon Kaen)

Key Map



Facilities

Facilities	Area (m ²)
Transshipment Platform	2,800
Aprons	3,500
Administration Building	400
Office Building	250
Petrol Station	600
Maintenance Shop	360
Car Wash Area	300
Parking Area	1,680
Road Way	6,670
Others	1,718
Total	18,278

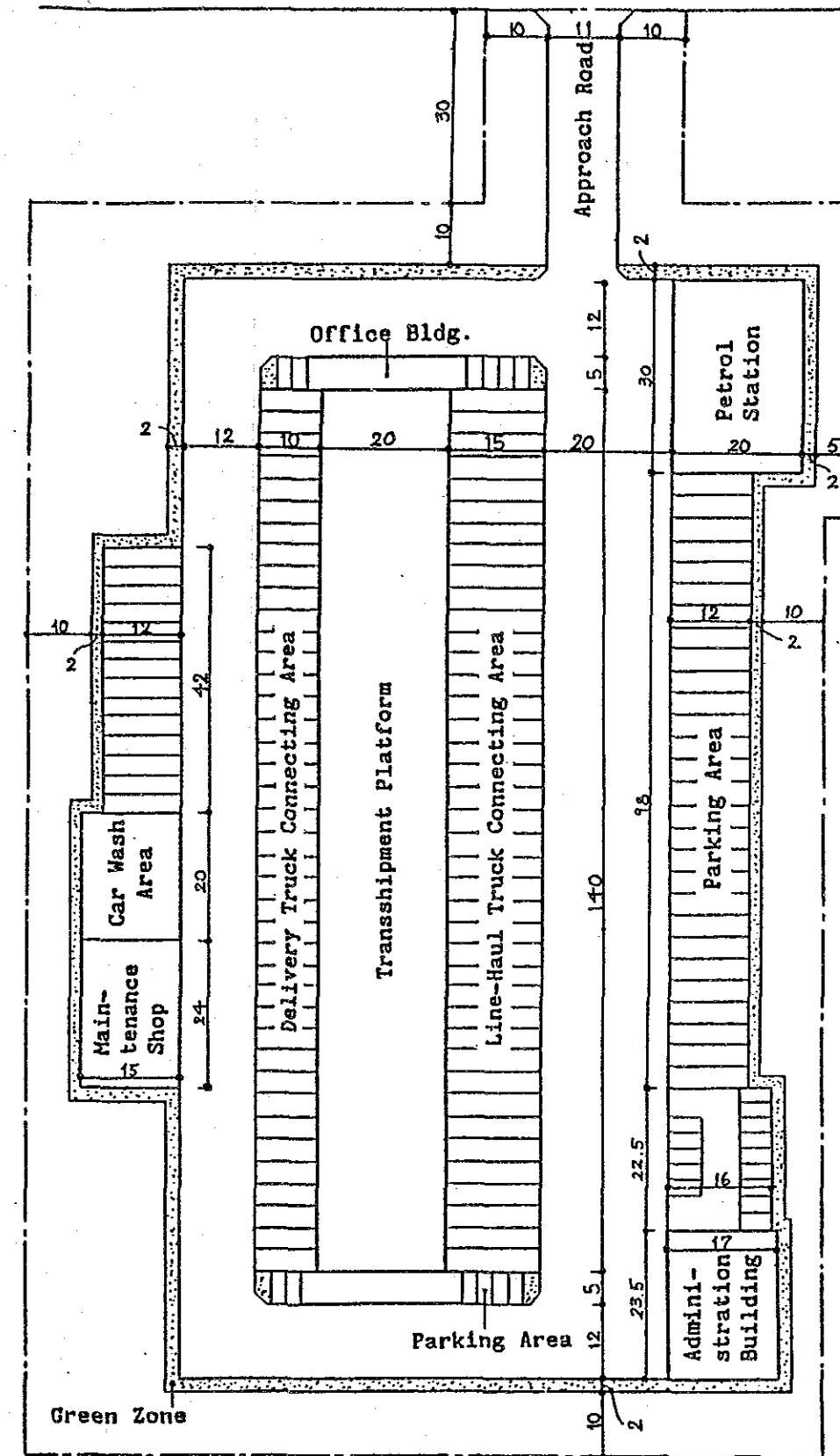
Land Required

Distance from Road Side	Area (m ²)
~ 40 m	2,210
40 ~ 80 m	5,117
80 m ~	18,500
Total	25,827

(Approach Road) 440 m²

40 BERTHS TRUCK TERMINAL

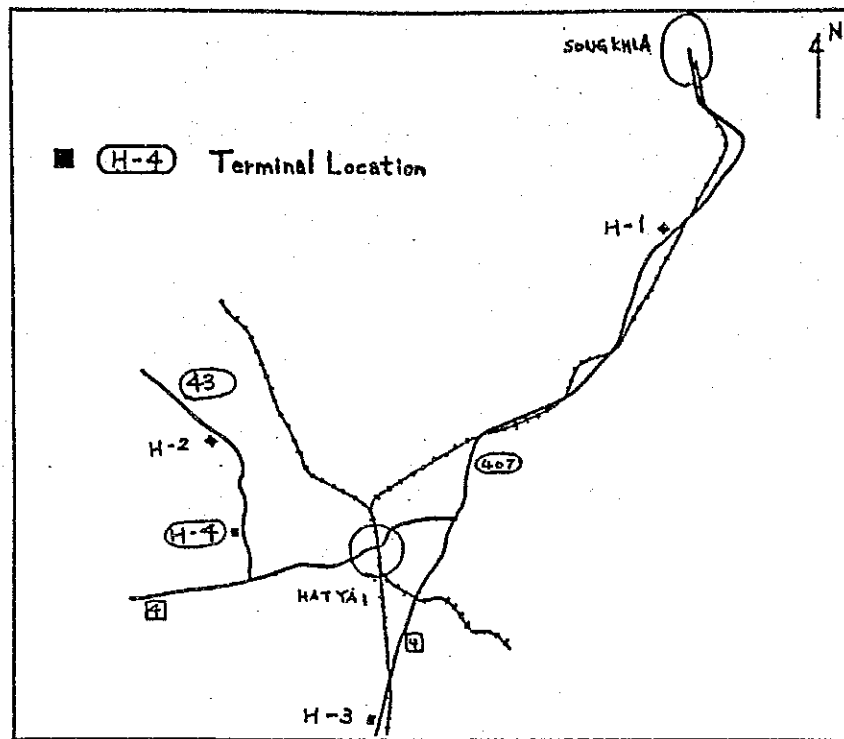
to Khon Kaen ← R 2



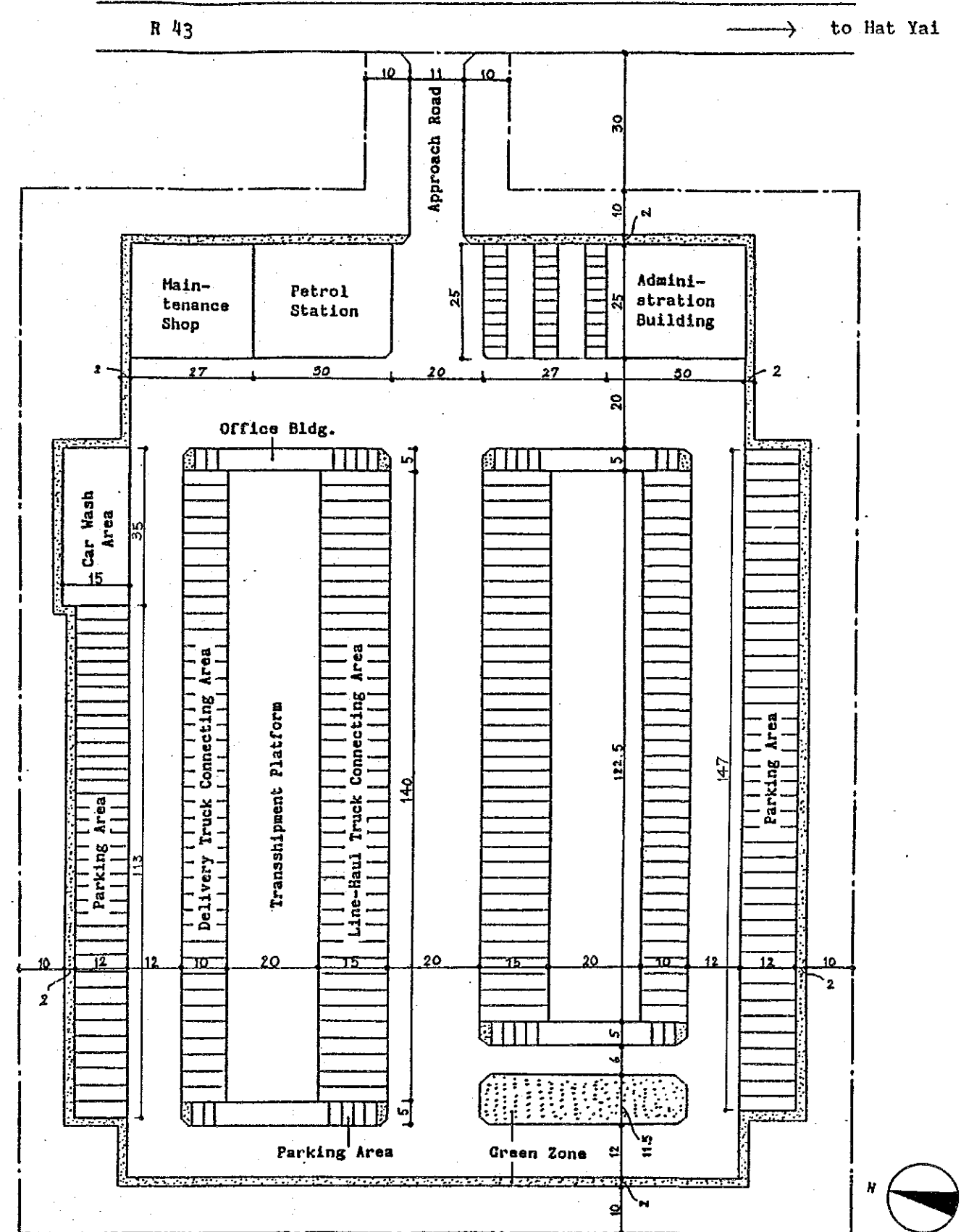
Land Required

Scale 1:1,000

Key Map



75 BERTHS TRUCK TERMINAL



Facilities

Facilities	Area (m ²)
Transshipment Platform	5,250
Aprons	6,562.5
Administration Building	750
Office Building	500
Petrol Station	750
Maintenance Shop	675
Car Wash Area	525
Parking Area	3,120
Road Way	11,680
Others	2,958.5
Total	32,771

Land Required

Distance from Road Side	Area (m ²)
~ 40 m	2,750
40 ~ 80 m	7,280
80 m ~	32,942
Total	42,972

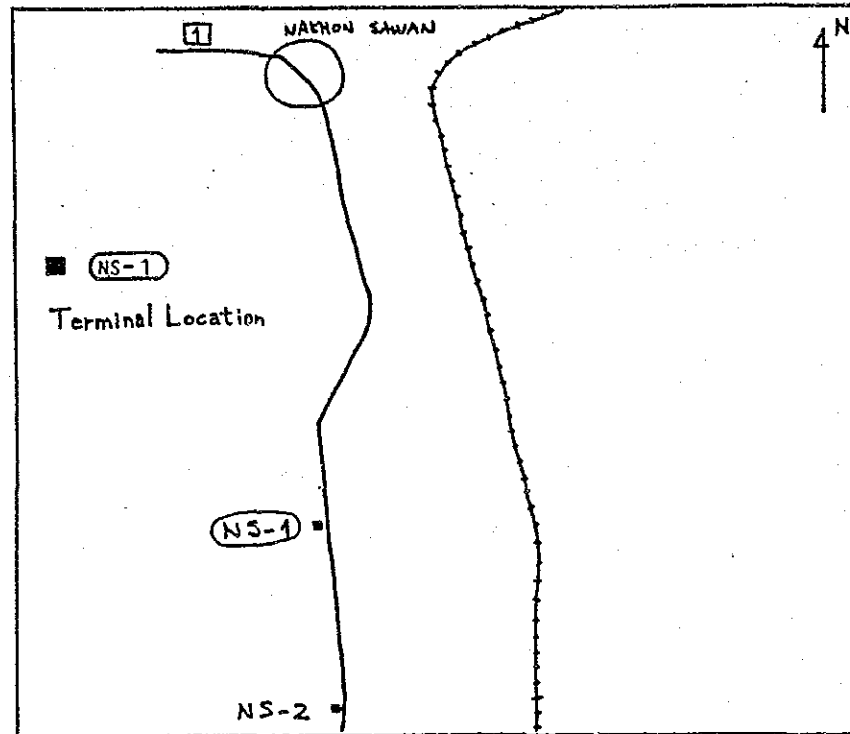
(Approach Road) 440 m²

Land Required

Scale 1:1,200



Key Map



Facilities

Facilities	Area (m ²)
Transshipment Platform	2,800
Aprons	3,500
Administration Building	400
Office Building	250
Petrol Station	600
Maintenance Shop	360
Car Wash Area	300
Parking Area	1,680
Road Way	6,670
Others	1,718
Total	18,278

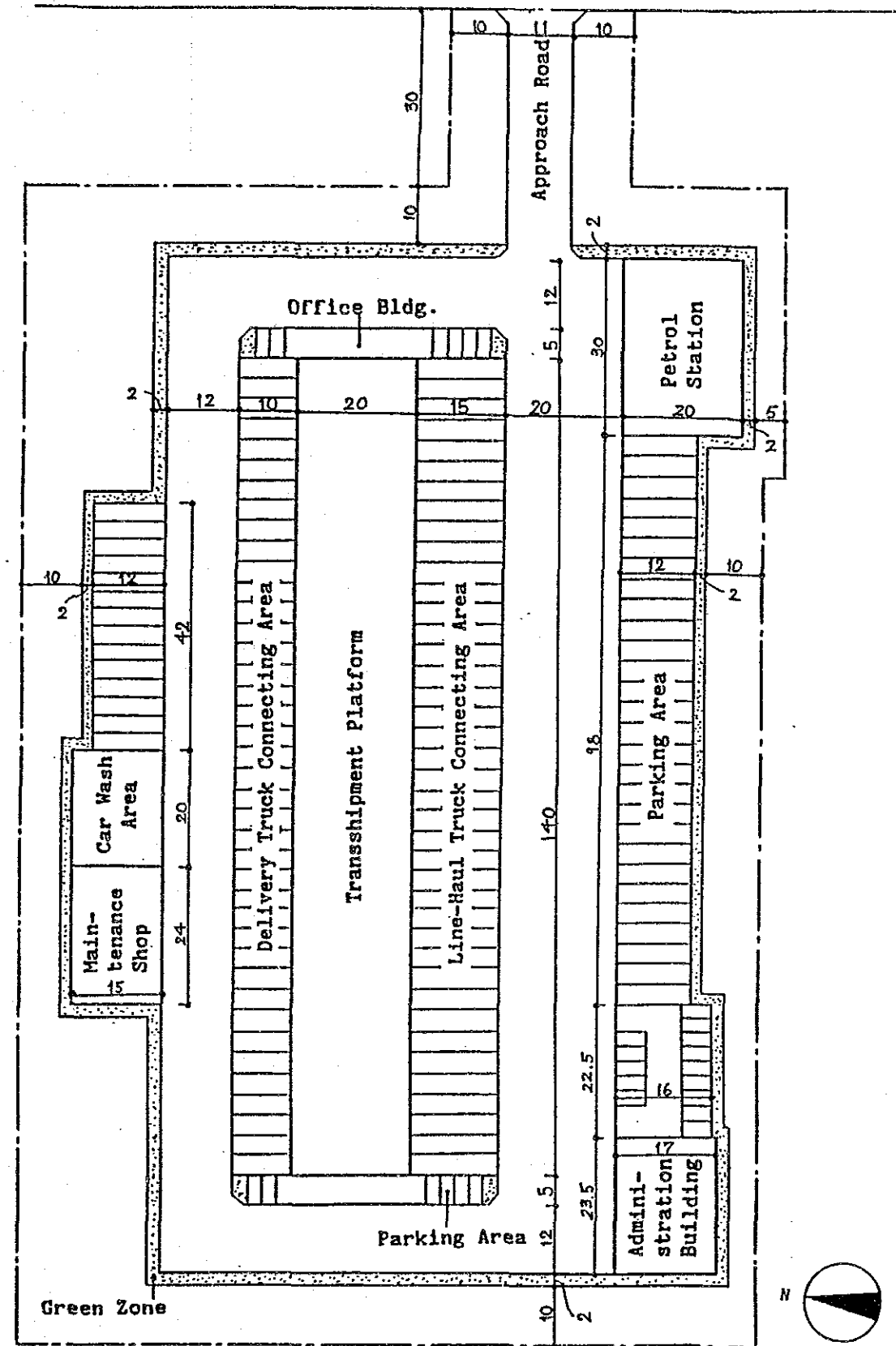
Land Required

Distance from Road Side	Area (m ²)
~ 40 m	2,210
40 ~ 80 m	5,117
80 m ~	18,500
Total	25,827

(Approach Road) 440 m²

40 BERTHS TRUCK TERMINAL

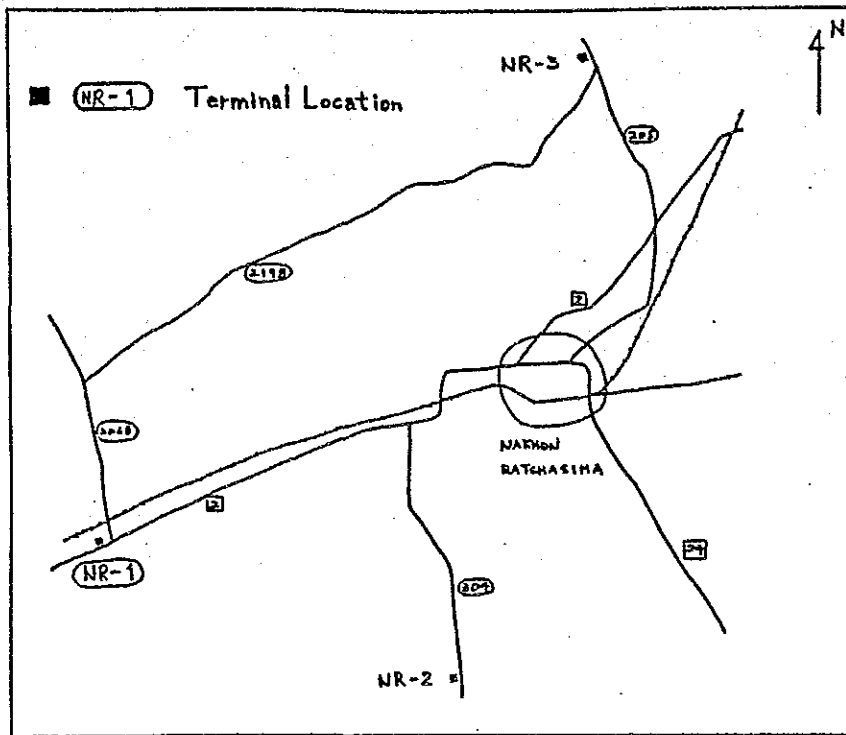
to Nakhon Sawan ← R 1



Land Required

Scale 1:1,000

Key Map



Facilities

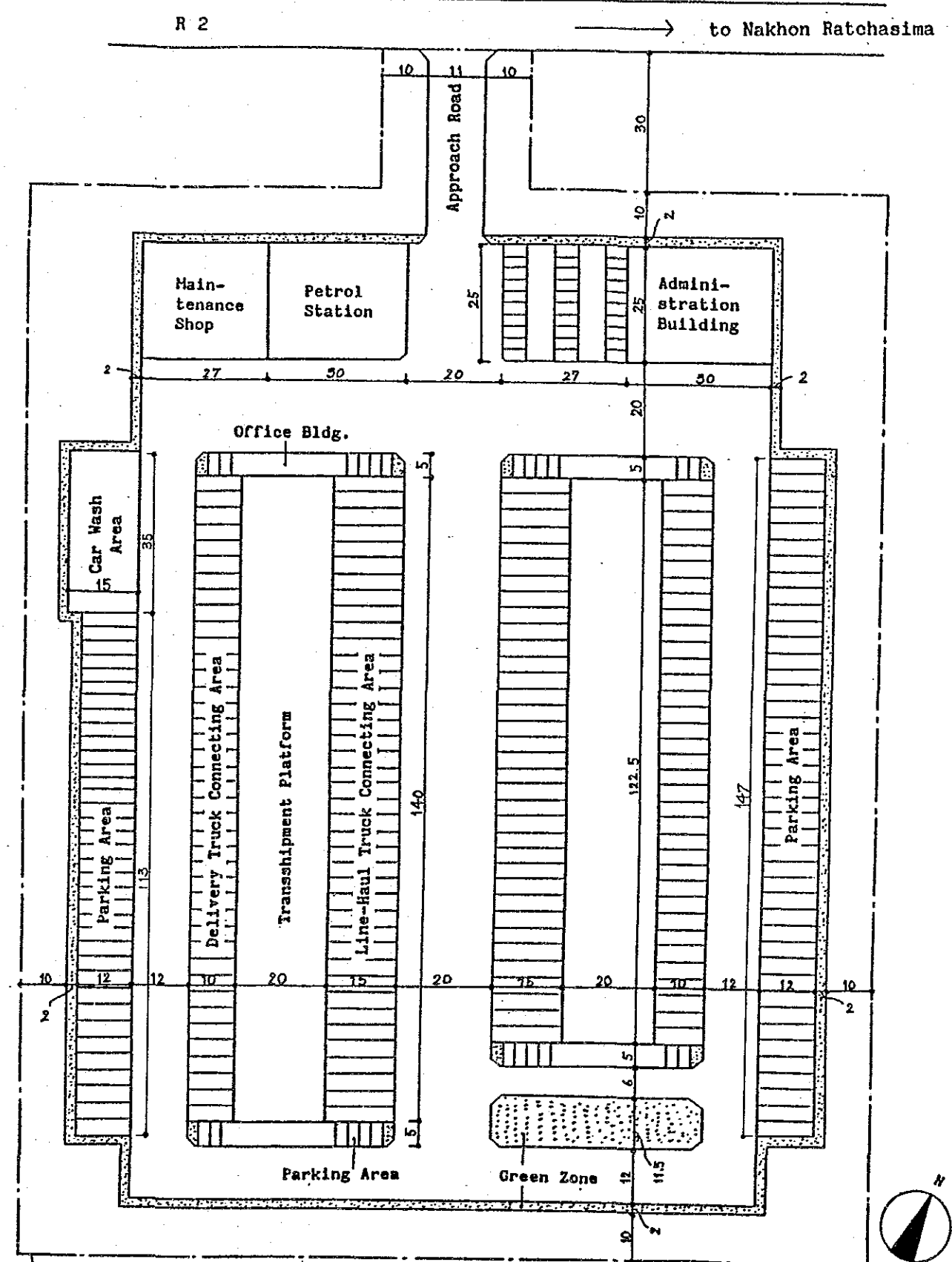
Facilities	Area (m ²)
Transshipment Platform	5,250
Aprons	6,562.5
Administration Building	750
Office Building	500
Petrol Station	750
Maintenance Shop	675
Car Wash Area	525
Parking Area	3,120
Road Way	11,680
Others	2,958.5
Total	32,771

Land Required

Distance from Road Side	Area (m ²)
~ 40 m	2,750
40 ~ 80 m	7,280
80 m ~	32,942
Total	42,972

(Approach Road) 440 m²

75 BERTHS TRUCK TERMINAL



Land Required

Scale 1:1,200

Unit Price by Work Item and Area

Work Items	Unit	Unit Price in Baht				
		Chiang Mai	Nakhon Sawan	Nakhon Ratchasima	Khon Kaen	Hat Yai/Songkhla
Earth Work	CM	24.1	24.7	24.1	24.1	24.9
R.C. Pile	EACH	7,299.8	7,471.9	7,293.8	7,293.8	7,551.9
Retaining Wall	L.M.	16,294.6	16,678.6	16,281.2	16,281.2	16,857.3
Pavement						
- Rigid Concrete	SM	339.2	347.2	338.9	338.9	350.9
- Asphalt concrete	S.M.	95.3	97.6	95.3	95.3	98.6
Platform	S.M.	3,331.5	3,410.1	3,328.8	3,328.8	3,446.6
Administration Building	S.M.	3,913.6	4,005.8	3,910.3	3,910.3	4,048.7
Office Building	S.M.	3,913.6	4,005.8	3,910.3	3,910.3	4,048.7
Petrol Station	S.M.	5,303.8	5,428.8	5,299.5	5,299.5	5,487.0
Maintenance Shop	S.M.	3,331.5	3,410.1	3,328.8	3,328.8	3,446.6
Car Wash	S.M.	339.2	347.2	338.9	338.9	350.9
Warehouse	S.M.	2,508.7	2,567.8	2,506.6	2,506.6	2,595.3
Sewage Plant						
- for 10 persons	SET	13,136.4	14,446.0	13,125.6	13,125.6	13,590.0
- for 50 persons	SET	46,105.1	47,191.7	46,067.2	46,067.2	47,697.1
Drainage						
- Concrete Pipe Culvert ø400 mm	L.M.	656.8	672.3	656.3	656.3	679.5
- " ø1,000 mm	L.M.	2,804.8	2,870.9	2,802.5	2,802.5	2,901.7
- U-Ditch 300 mm x 500 mm	L.M.	534.2	546.8	533.8	533.8	552.7
Parking Area	S.M.	339.2	347.2	338.9	338.9	350.9
Turfing	S.M.	26.7	27.4	26.7	26.7	27.7
Fence	L.M.	1,268.8	1,298.8	1,267.8	1,267.8	1,312.7
Concrete Curb	L.M.	667.9	683.6	667.3	667.3	69.9
Preparatory Work	ha	26,712.5	27,342.1	26,690.5	26,690.5	27,634.9

Land Acquisition Cost

Terminal Rate	Chiang Mai	Nakhon Sawan 2/	Nakhon Ratchasi- ma	Khon Kaen	Hat Yai/ Songkhla
<u>Official Rate:</u>					
<u>(B/m²)</u> 1/					
- ~ 40 m	188	31	94	250	50
- 40 ~ 80 m	50	31	31	125	33
- 80 m ~	50	19	13	63	5
<u>(B/Rai)</u> 3/					
- ~ 40 m	300,000	50,000	150,000	400,000	79,000
- 40 ~ 80 m	80,000	50,000	50,000	200,000	53,000
- 80 m ~	80,000	30,000	20,000	100,000	8,000
<u>Market Rate:</u>					
<u>(B/m²)</u>					
- ~ 40 m	375	-	188	750	50
- 40 ~ 80 m	100	-	63	375	33
- 80 m ~	100	-	25	188	5
<u>(B/Rai)</u>					
- ~ 40 m	600,000	-	300,000	1,200,000	79,000
- 40 ~ 80 m	160,000	-	100,000	600,000	53,000
- 80 m ~	160,000	-	40,000	300,000	8,000

Notes: 1/ Items of "~ 40 m", "40 ~ 80 m", and "80 m ~" indicate the distance from the roadside

2/ The official rates of Nakhon Sawan are land prices illegally occupied by illegal residents in the Army's land. The market rates are not available.

3/ Rai is 1,600 m².

Construction Cost (Chiang Mai)

Item	Unit	Unit Price (B)	Quantity	Amount (B 1,000)
• Mobilization	L.S.	4,793.0	1	4,793.0
• Preparatory Work	HA	26,712.5	2.3640	63.1
• Earth Work	C.M.	24.1	30,099.8	725.4
• R.C. Pile	EACH	7,299.8	88	642.4
• Retaining Wall	L.M.	16,294.6	245	3,992.2
• Transshipment Platform				
- Asphaltic Concrete Pavement	S.M.	197.2	2,450	467.0
- Shed Skelton	S.M.	3,446.6	2,450	8,162.2
• Rigid concrete Pavement				
- Apron	S.M.	678.4	3,062.5	2,077.6
- Roadway	S.M.	678.4	6,110	4,145.0
- Parking Area	S.M.	678.4	1,870	1,268.6
- Access Road	S.M.	678.4	280	190.0
• Administration Building	S.M.	4,048.7	400	1,565.4
• Office Building	S.M.	4,048.7	500	1,956.8
• Petrol Station	S.M.	5,487.0	600	3,182.3
• Maintenance Shop	S.M.	3,446.6	300	999.5
• Car Wash Area	S.M.	678.4	300	203.6
• Sewage Plant	SET	13,136.4	1	13.1
• RC-Pipe Culvert				
- ø 400 mm	L.M.	656.8	125	82.1
- ø 1,000 mm	L.M.	2,804.8	253	709.6
• Concrete U-Ditch (300mm x 500mm)	L.M.	534.2	902	481.8
• Turfing	S.M.	26.7	1,134	30.3
• Fence	L.M.	1,268.8	534	677.5
• Concrete Curb	L.M.	667.9	475.5	317.6
Total				36,746.1

Construction Cost (Khon Kaen)

Item	Unit	Unit Price (B)	Quantity	Amount (B 1,000)
• Mobilization	L.S.	5,248.2	1	5,248.2
• Preparatory Work	HA	26,690.5	2.5827	68.9
• Earth Work	C.M.	24.1	23,164.5	558.3
• R.C. Pile	EACH	7,293.8	104	758.6
• Retaining Wall	L.M.	16,281.2	280	4,558.7
• Transshipment Platform				
- Asphaltic Concrete Pavement	S.M.	190.3	2,800	532.8
- Shed Skelton	S.M.	3,328.8	2,800	9,320.6
• Rigid concrete Pavement				
- Apron	S.M.	677.8	3,500	2,372.3
- Roadway	S.M.	677.8	6,670	4,519.6
- Parking Area	S.M.	677.8	2,190	1,484.4
- Access Road	S.M.	677.8	280	189.8
• Administration Building	S.M.	3,910.3	400	1,564.1
• Office Building	S.M.	3,910.3	500	1,955.2
• Petrol Station	S.M.	5,299.5	600	3,179.7
• Maintenance Shop	S.M.	3,328.8	360	1,198.4
• Car Wash Area	S.M.	677.8	300	203.3
• Sewage Plant	SET	13,125.6	1	13.1
• RC-Pipe Culvert				
- ø 400 mm	L.M.	656.3	253	166.0
- ø 1,000 mm	L.M.	2,802.5	250	700.6
• Concrete U-Ditch (300mm x 500mm)	L.M.	533.8	1,006	537.0
• Turfing	S.M.	26.7	1,208	32.3
• Fence	L.M.	1,267.8	577	731.5
• Concrete Curb	L.M.	667.3	514	343.0
Total				40,236.5

Construction Cost (Hat Yai / Songkhla)

Item	Unit	Unit Price (B)	Quantity	Amount (B 1,000)
• Mobilization	L.S.	9,484.2	1	9,488.9
• Preparatory Work	HA	27,634.9	4.2972	118.8
• Earth Work	C.M.	24.9	23,878.3	594.6
• R.C. Pile	EACH	7,551.9	192	1,450.0
• Retaining Wall	L.M.	16,857.3	525	8,850.1
• Transshipment Platform				
- Asphaltic Concrete Pavement	S.M.	197.2	5,250	1,035.3
- Shed Skelton	S.M.	3,446.6	5,250	18,094.7
• Rigid concrete Pavement				
- Apron	S.M.	701.8	6,562.5	4,605.6
- Roadway	S.M.	701.8	11,680	8,197.0
- Parking Area	S.M.	701.8	4,095	2,873.9
- Access Road	S.M.	701.8	280	196.5
• Administration Building	S.M.	4,048.7	750	3,036.5
• Office Building	S.M.	4,048.7	1,000	4,048.7
• Petrol Station	S.M.	5,487.0	750	4,115.3
• Maintenance Shop	S.M.	3,446.6	675	2,326.5
• Car Wash Area	S.M.	701.8	525	368.4
• Sewage Plant	SET	13,590.0	1	13.6
• RC-Pipe Culvert				
- ø 400 mm	L.M.	679.5	546	371.0
- ø 1,000 mm	L.M.	2,901.7	364	1,056.2
• Concrete U-Ditch (300mm x 500mm)	L.M.	552.7	1,507	832.9
• Turfing	S.M.	27.7	1,983.5	54.9
• Fence	L.M.	1,312.7	741	972.7
• Concrete Curb	L.M.	69.9	659	46.1
Total				72,748.0

Construction Cost (Nkhon Sawan)

Item	Unit	Unit Price (B)	Quantity	Amount (B 1,000)
• Mobilization	L.S.	5,376.9	1	5,376.9
• Preparatory Work	HA	27,342.1	2.5827	70.6
• Earth Work	C.M.	24.7	23,164.5	572.2
• R.C. Pile	EACH	7,471.9	104	777.1
• Retaining Wall	L.M.	16,678.6	280	4,670.0
• Transshipment Platform				
- Asphaltic Concrete Pavement	S.M.	195.2	2,800	546.6
- Shed Skelton	S.M.	3,410.1	2,800	9,548.3
• Rigid concrete Pavement				
- Apron	S.M.	694.4	3,500	2,430.4
- Roadway	S.M.	694.4	6,670	4,631.6
- Parking Area	S.M.	694.4	2,190	1,520.8
- Access Road	S.M.	694.4	280	194.4
• Administration Building	S.M.	4,005.8	400	1,602.3
• Office Building	S.M.	4,005.8	500	2,002.9
• Petrol Station	S.M.	5,428.8	600	3,257.3
• Maintenance Shop	S.M.	3,410.1	360	1,227.6
• Car Wash Area	S.M.	694.4	300	208.4
• Sewage Plant	SET	13,446.0	1	13.4
• RC-Pipe Culvert				
- ϕ 400 mm	L.M.	672.3	253	170.1
- ϕ 1,000 mm	L.M.	2,870.9	250	717.7
• Concrete U-Ditch (300mm x 500mm)	L.M.	546.8	1,006	550.1
• Turfing	S.M.	27.4	1,208	33.1
• Fence	L.M.	1,298.8	577	749.4
• Concrete Curb	L.M.	683.6	514	351.4
Total				41,222.7

Construction Cost (Nkhon Ratchasima)

Item	Unit	Unit Price (B)	Quantity	Amount (B 1,000)
• Mobilization	L.S.	9,349.5	1	9,349.5
• Preparatory Work	HA	26,690.5	4.2972	114.7
• Earth Work	C.M.	24.1	58,571.3	1,411.6
• R.C. Pile	EACH	7,293.8	192	1,400.4
• Retaining Wall	L.M.	16,281.2	525	8,547.6
• Transshipment Platform				
- Asphaltic Concrete Pavement	S.M.	190.6	5,250	1,000.7
- Shed Skelton	S.M.	3,328.8	5,250	17,476.2
• Rigid concrete Pavement				
- Apron	S.M.	677.8	6,562.5	4,448.1
- Roadway	S.M.	677.8	11,680	7,916.7
- Parking Area	S.M.	677.8	4,095	2,775.6
- Access Road	S.M.	677.8	280	189.8
• Administration Building	S.M.	3,910.3	750	2,932.7
• Office Building	S.M.	3,910.3	1,000	3,910.3
• Petrol Station	S.M.	5,299.5	750	3,974.6
• Maintenance Shop	S.M.	3,328.8	675	2,246.9
• Car Wash Area	S.M.	677.8	525	355.8
• Sewage Plant	SET	13.1	1	13.1
• RC-Pipe Culvert				
- ø 400 mm	L.M.	656.3	546	358.3
- ø 1,000 mm	L.M.	2,802.5	364	1,020.1
• Concrete U-Ditch (300mm x 500mm)	L.M.	533.8	1,507	804.4
• Turfing	S.M.	26.7	1,983.5	53.0
• Fence	L.M.	1,267.8	741	939.4
• Concrete Curb	L.M.	667.3	659	439.8
Total				71,679.3

Construction Schedule for Regional Truck Terminals

Items	1988	1989	1990	1991	1992	1993
Preparation of Construction						
- Review of Feasibility Study & Detailed Design		■				
- Land Acquisition			■			
- Loan Negotiation			■			
- Preparation of Construction				■		
Construction						
- Earthwork				■		
- Drainage Facilities					■	
- Pavements					■	
- Houses					■	
- Other Facilities					■	

**Required Number of Trucks and Average Truck Load "With" and "Without"
Truck Terminal Situations in 1996 and 2006**

Terminals	Year 1996			Year 2006		
	Main-haul	Return-haul	Agr. Bulk*	Main-haul	Return-haul	Agr. Bulk*
1) Chiang Mai:						
Traffic Demand (ton/yr)	221,018	59,156	80,931	355,830	84,356	135,717
No. of Trucks Required	22,102	22,102	5,995	35,583	35,583	10,055
Average Truck Load						
- "Without" (ton/veh)	10	2.7	13.5	10	2.4	13.5
- "With" (ton/veh)	10	2.7+3.7*=6.4	-	10	2.4+3.8*=6.2	-
2) Nakhon Sawan:						
Traffic Demand (ton/yr)	225,757	42,132	91,812	356,006	67,884	144,061
No. of Trucks Required	22,576	22,576	6,801	35,601	35,601	10,671
Average Truck Load						
- "Without" (ton/veh)	10	1.9	13.5	10	1.9	13.5
- "With" (ton/veh)	10	1.9+4.1*=6.0	-	10	1.9+4.1*=6.0	-
3) Nakhon Ratchasima:						
	<u>L1</u>					
Traffic Demand (ton/yr)	373,277	316,655	0	719,913	534,746	0
No. of Trucks Required	37,328	37,328	0	71,992	71,992	0
Average Truck Load						
- "Without" (ton/veh)	10	8.5	-	10	7.4	-
- "With" (ton/veh)	10	8.5+0*=8.5	-	10	7.4+0*=7.4	-
4) Khon Kaen:						
Traffic Demand (ton/yr)	224,422	98,984	62,719	365,972	176,649	94,662
No. of Trucks Required	22,443	22,443	4,646	36,598	36,598	7,012
Average Truck Load						
- "Without" (ton/veh)	10	4.4	13.5	10	4.8	13.5
- "With" (ton/veh)	10	4.4+2.8*=7.2	-	10	4.8+2.6*=7.4	-
5) Hat Yai/Songkhla:						
Traffic Demand (ton/yr)	271,386	91,483	89,772	508,557	181,723	163,417
No. of Trucks Required	27,139	27,139	6,650	50,856	50,856	12,105
Average Truck Load						
- "Without" (ton/veh)	10	3.4	13.5	10	3.6	13.5
- "With" (ton/veh)	10	3.4+3.3*=6.7	-	10	3.6+2.8*=6.4	-

Notes: * Agricultural bulk cargo transported by return-haul trucks for Bangkok under the "With" project situation, otherwise by chartered trucks.

L1 Return-haul direction is from Bangkok to Nakhon Ratchasima.

Cost Savings in Truck Operation (Chiang Mai)

Truck Operation Costs	Year 1996			Year 2006		
	Main-haul	Return-haul	Agr.Bulk ^{/1}	Main-haul	Return-haul	Agr.Bulk ^{/1}
Fixed Costs (฿/km):						
"Without"	2.575	2.575	*	2.575	2.575	*
"With"	2.203	2.203	*	2.203	2.203	*
Running Costs (฿/km):						
"Without"	2.579	1.728	2.928+1.414	2.579	1.694	2.928+1.414
"With"	2.579	2.159	-	2.579	2.136	-
Operating Costs (฿/km):						
"Without"	5.154	4.303	4.342	5.154	4.269	4.342
"With"	4.782	4.362	-	4.782	4.339	-
Operating Distance:						
(veh-km) "Without"	22,102	22,102	5,995	35,583	35,583	10,055
	x 697	x 697	x 697	x 697	x 697	x 697
"With"	"	"	-	"	"	-
Cost Savings (x10 ³ ฿)	5,731	-909	18,143	9,226	-1,736	30,430
Total Benefit (x10 ³ ฿)		22,965			37,920	

Note: ^{/1} Agricultural bulk cargo transported by return-haul trucks for Bangkok under the "With" project situation, otherwise by chartered trucks.

* It was assumed that there is no saving in the fixed costs when compared "Without" and "With" project situations.

Cost Savings in Truck Operation (Nakhon Sawan)

Truck Operation Costs	Year 1996			Year 2006		
	Main-haul	Return-haul	Agr.Bulk ^{/1}	Main-haul	Return-haul	Agr.Bulk ^{/1}
Fixed Costs (฿/km):						
"Without"	2.575	2.575	*	2.575	2.575	*
"With"	2.203	2.203	*	2.203	2.203	*
Running Costs (฿/km):						
"Without"	2.579	1.635	2.928+1.414	2.579	1.635	2.928+1.414
"With"	2.579	2.113	-	2.579	2.113	-
Operating Costs (฿/km):						
"Without"	5.154	4.210	4.342	5.154	4.210	4.342
"With"	4.782	4.316	-	4.782	4.316	-
Operating Distance:						
(veh-km) "Without"	22,576	22,576	6,801	35,601	35,601	10,671
	x 241	x 241	x241	x 241	x 241	x 241
"With"	"	"	-	"	"	-
Cost Savings (x10 ³ ฿)	2,024	-577	7,117	3,192	-909	11,166
Total Benefit (x10 ³ ฿)		8,564			13,449	

Note: ^{/1} Agricultural bulk cargo transported by return-haul trucks for Bangkok under the "With" project situation, otherwise by chartered trucks.

* It was assumed that there is no saving in the fixed costs when compared "Without" and "With" project situations.

Cost Savings in Truck Operation (Nakhon Ratchasima)

Truck Operation Costs	Year 1996			Year 2006		
	Main-haul	Return-haul	Agr.Bulk ^{/1}	Main-haul	Return-haul	Agr.Bulk ^{/1}
Fixed Costs (฿/km):						
"Without"	2.575	2.575	*	2.575	2.575	*
"With"	2.203	2.203	*	2.203	2.203	*
Running Costs (฿/km):						
"Without"	2.579	2.404	2.928+1.414	2.579	2.276	2.928+1.414
"With"	2.579	2.404	-	2.579	2.276	-
Operating Costs (฿/km):						
"Without"	5.154	4.979	4.342	5.154	4.851	4.342
"With"	4.782	4.607	-	4.782	4.479	-
Operating Distance:						
(veh-km) "Without"	37,328	37,328	-	71,992	71,992	-
	x 256	x 256		x 256	x 256	
"With"	"	"	-	"	"	-
Cost Savings (x10 ³ ฿)	3,555	3,555	-	6,856	6,856	-
Total Benefit (x10 ³ ฿)		7,110			13,712	

Note: ^{/1} Agricultural bulk cargo transported by return-haul trucks for Bangkok under the "With" project situation, otherwise by chartered trucks.

* It was assumed that there is no saving in the fixed costs when compared "Without" and "With" project situations.

Cost Savings in Truck Operation (Khon Kaen)

Truck Operation Costs	Year 1996			Year 2006		
	Main-haul	Return-haul	Agr.Bulk ^{/1}	Main-haul	Return-haul	Agr.Bulk ^{/1}
Fixed Costs (฿/km):						
"Without"	2.575	2.575	*	2.575	2.575	*
"With"	2.203	2.203	*	2.203	2.203	*
Running Costs (฿/km):						
"Without"	2.579	1.926	2.928+1.414	2.579	1.973	2.928+1.414
"With"	2.579	2.253	-	2.579	2.276	-
Operating Costs (฿/km):						
"Without"	5.154	4.501	4.342	5.154	4.548	4.342
"With"	4.782	4.456	-	4.782	4.479	-
Operating Distance:						
(veh-km) "Without"	22,443	22,443	4,646	36,598	36,598	7,012
	x 445	x 445	x445	x 445	x 445	x 445
"With"	"	"	-	"	"	-
Cost Savings (x10 ³ ฿)						
	3,715	449	8,977	6,058	1,124	13,549
Total Benefit (x10 ³ ฿)						
		13,141			20,731	

Note: /1 Agricultural bulk cargo transported by return-haul trucks for Bangkok under the "With" project situation, otherwise by chartered trucks.

* It was assumed that there is no saving in the fixed costs when compared "Without" and "With" project situations.

Cost Savings in Truck Operation (Hat Yai / Songkhla)

Truck Operation Costs	Year 1996			Year 2006		
	Main-haul	Return-haul	Agr.Bulk ¹	Main-haul	Return-haul	Agr.Bulk ¹
Fixed Costs (฿/km):						
"Without"	2.575	2.575	*	2.575	2.575	*
"With"	2.203	2.203	*	2.203	2.203	*
Running Costs (฿/km):						
"Without"	2.579	1.810	2.928+1.414	2.579	1.833	2.928+1.414
"With"	2,579	2.194	-	2.579	2.206	-
Operating Costs (฿/km):						
"Without"	5.154	4.385	4.342	5.154	4.408	4.342
"With"	5.154	4.385	4.342	5.154	4.408	4.342
Operating Distance:						
(veh-km) "Without"	27,139	27,139	6,650	50,856	50,856	12,105
	x 960	x 960	x 960	x 960	x 960	x 960
"With"	"	"	-	"	"	-
Cost Savings (x10³฿)						
	9,692	-313	27,719	18,162	-49	50,458
Total Benefit (x10³฿)						
		37,098			68,571	

Note: ¹ Agricultural bulk cargo transported by return-haul trucks for Bangkok under the "With" project situation, otherwise by chartered trucks.

* It was assumed that there is no saving in the fixed costs when compared "Without" and "With" project situations.

Disbursement Program - Chiang Mai

Administration Cost (฿/1000/year) : 771

Maintenance Cost (฿/1000/year) : 1,837

(1,000฿)

	1989	1990	1991	1992	Total
Construction Cost			11,024	25,722	36,746
Land Acquisition and Compensation		3,566			3,566
Final Engineering and Supervision	1,837	1,837			3,674
Contingency			2,199	2,199	4,398
Total Financial Cost	1,837	5,403	13,223	27,921	48,385
Economic Cost	1,488	5,054	10,711	22,616	39,869

Disbursement Program - Nakhon Sawan

Administration Cost (฿/1000/year) : 842

Maintenance Cost (฿/1000/year) : 2,061

(1,000฿)

	1989	1990	1991	1992	Total
Construction Cost			12,367	28,856	41,223
Land Acquisition and Compensation		576 (3,099) ^{1]}			576 (3,099)
Final Engineering and Supervision	2,061	2,061			4,122
Contingency			2,296 (2,422) ^{2]}	2,296 (2,422) ^{2]}	4,592 (4,844)
Total Financial Cost	2,061	2,637	14,663	31,152	50,513
Economic Cost	1,669	4,768	11,979	25,335	43,751

Notes: 1] The proposed terminal site belongs to the military base. The market price of land is not available, so that the unit price applied to the Chiang Mai Terminal was used for the economic cost estimate.

2] Due to the change in land acquisition and compensation costs for economic analysis.

Disbursement Program - Nakhon Ratchasima

Administration Cost (฿/1000/year) : 768

Maintenance Cost (฿/1000/year) : 3,584

(1,000฿)

	1989	1990	1991	1992	Total
Construction Cost			21,504	50,176	71,680
Land Acquisition and Compensation		2,153			2,153
Final Engineering and Supervision	3,584	3,584			7,168
Contingency			4,050	4,050	8,100
Total					
Financial Cost	3,584	5,737	25,554	54,226	89,101
Economic Cost	2,903	5,056	20,699	43,923	72,581

Disbursement Program - Khon Kaen

Administration Cost (฿/1000/year) : 768

Maintenance Cost (฿/1000/year) : 2,012

(1,000฿)

	1989	1990	1991	1992	Total
Construction Cost			12,071	28,166	40,237
Land Acquisition and Compensation		8,454			8,454
Final Engineering and Supervision	2,012	2,012			4,024
Contingency			2,636	2,636	5,272
Total					
Financial Cost	2,012	10,466	14,707	30,802	57,987
Economic Cost	1,630	10,084	11,913	24,950	48,577

Disbursement Program - Hat Yai / Songkhla

Administration Cost (B/1000/year) : 875

Maintenance Cost (B/1000/year) : 3,637

(1,000B)

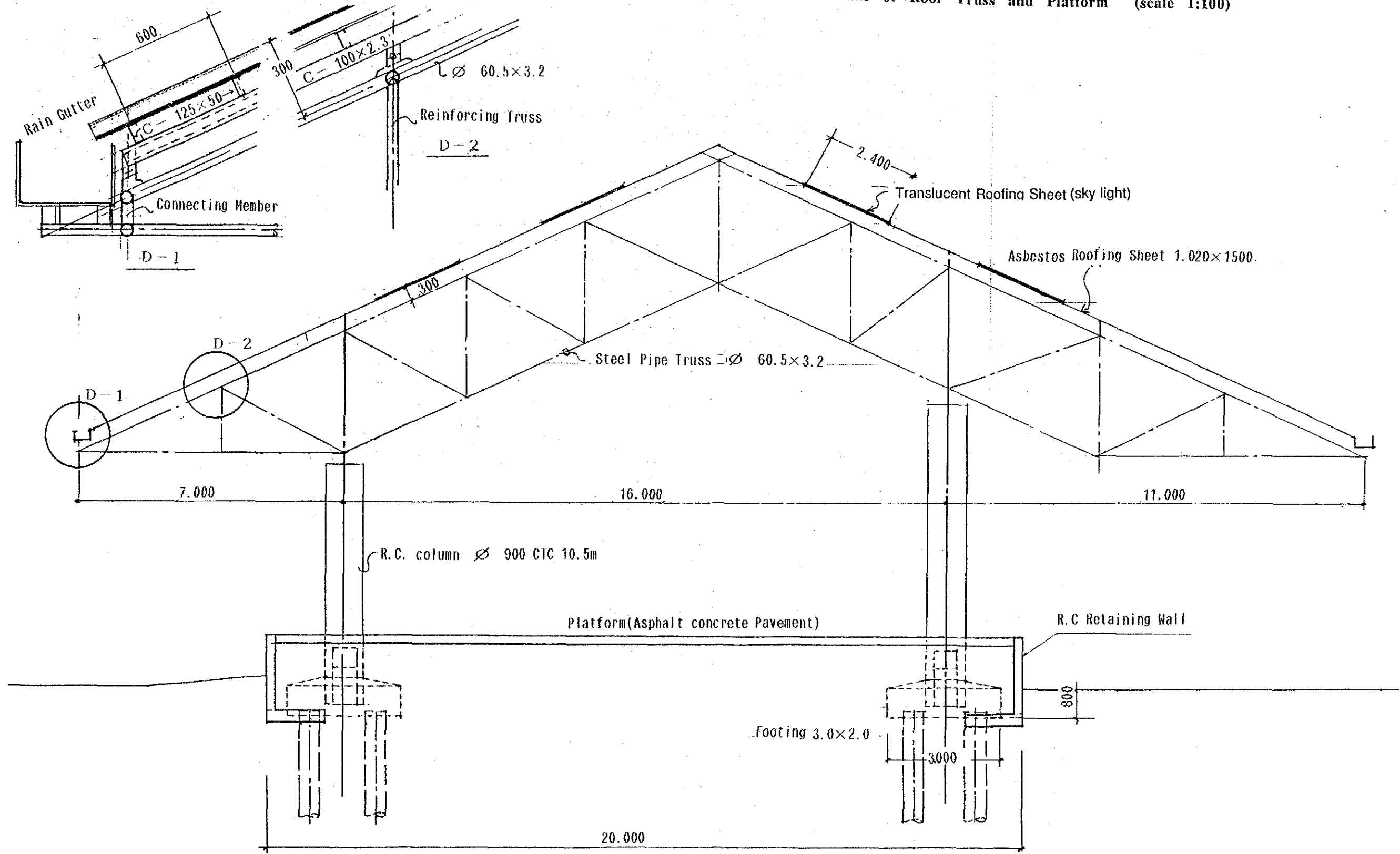
	1989	1990	1991	1992	Total
Construction Cost			21,824	50,924	72,748
Land Acquisition and Compensation		650			650
Final Engineering and Supervision	3,637	3,637			7,274
Contingency			4,034	4,034	8,068
Total Financial Cost	3,637	4,287	25,858	54,958	88,740
Economic Cost	2,945	3,595	20,935	44,493	71,968

APPENDIX 8

APPENDICES FOR CHAPTER 8

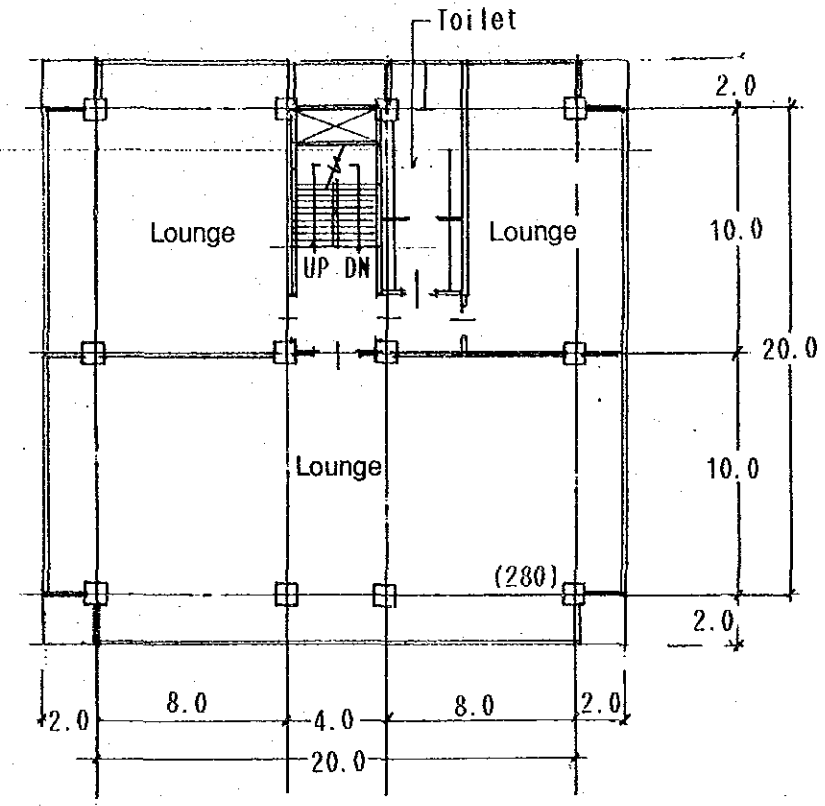
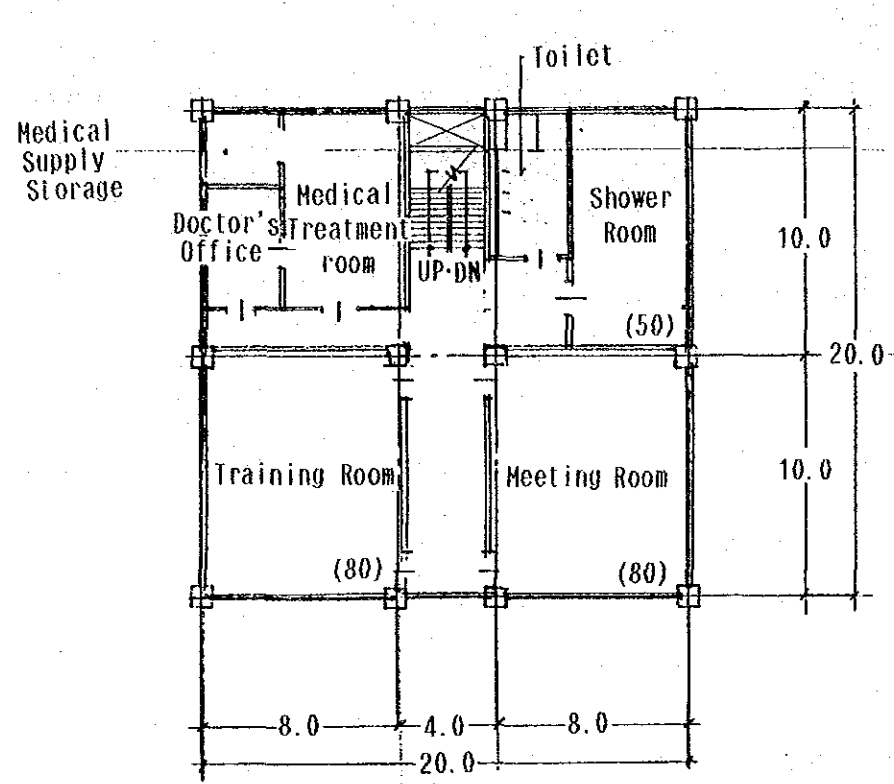


Details of Roof Truss and Platform (scale 1:100)



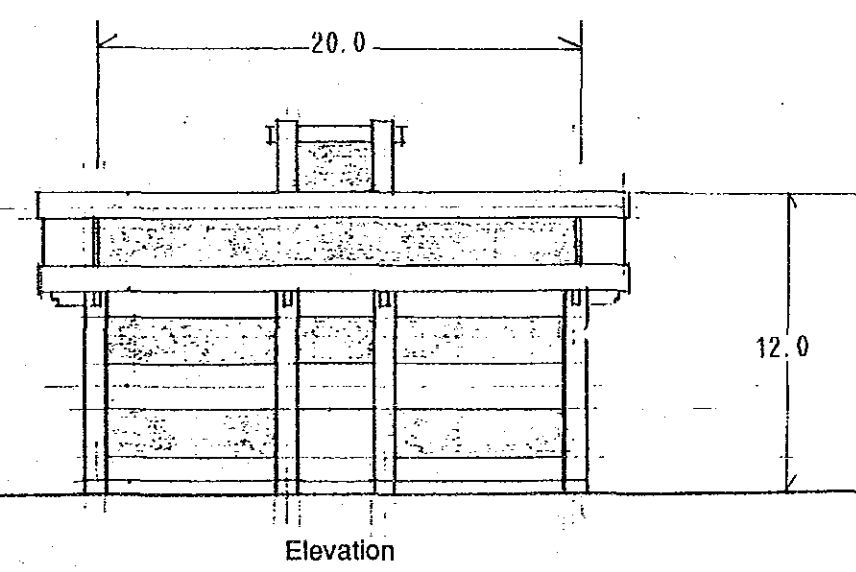
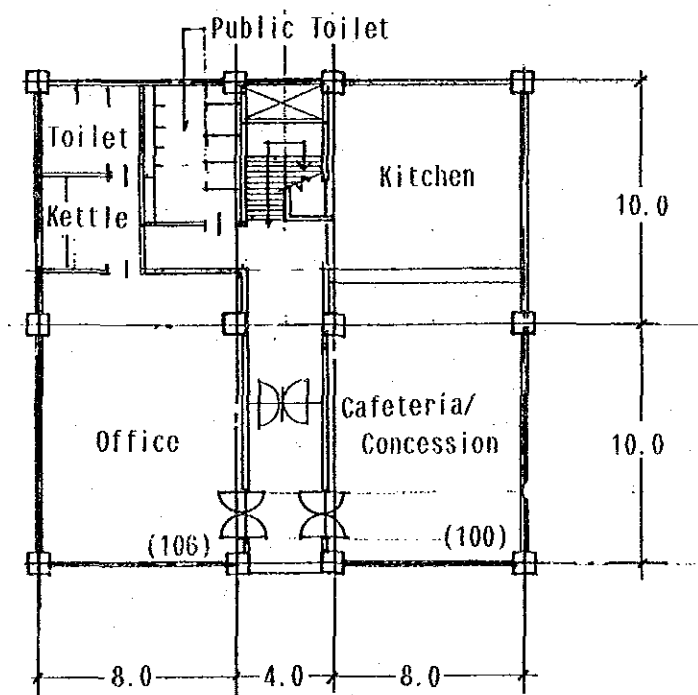
General View of Administration Building for Chiang Mai (scale 1:300)

Plan of 2nd Floor



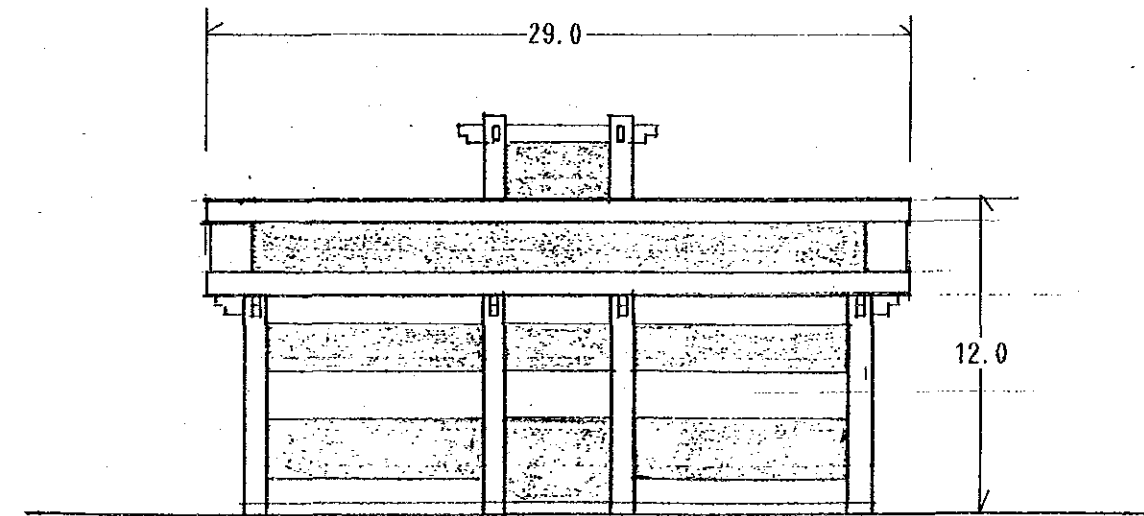
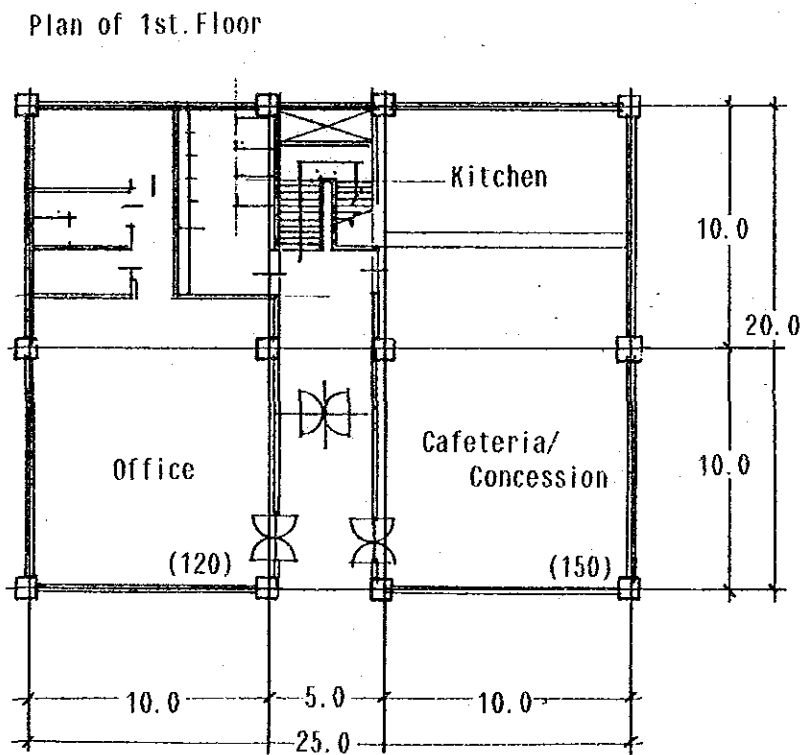
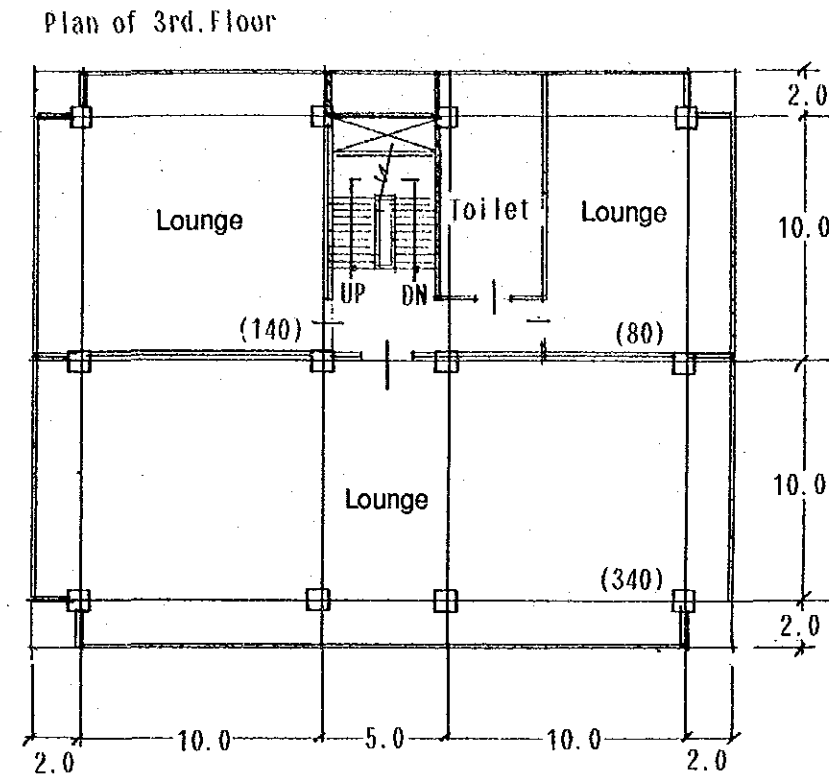
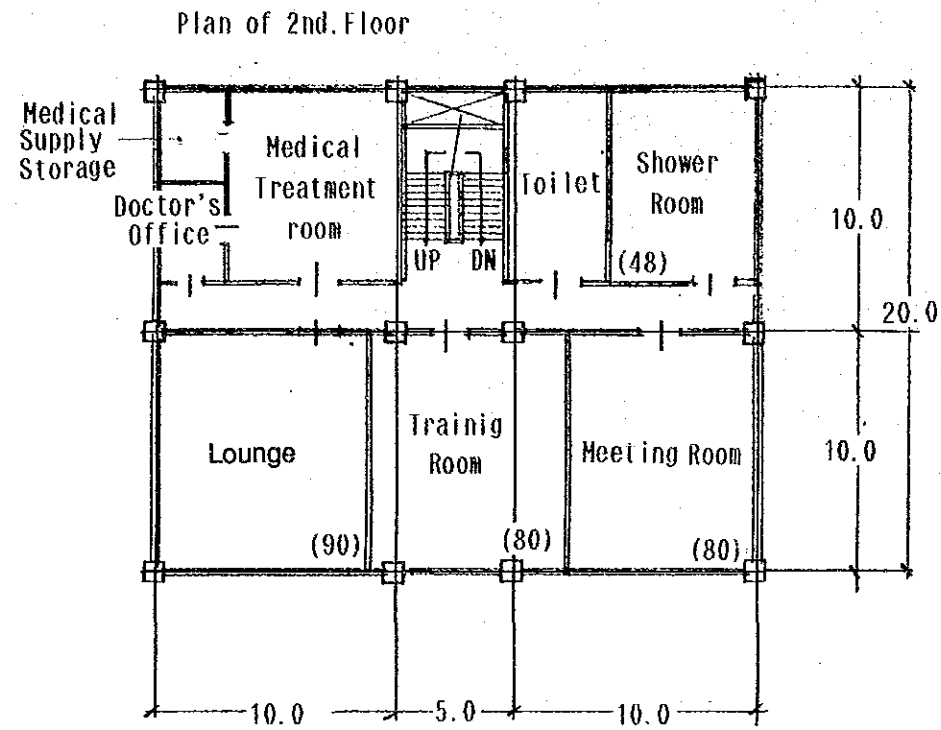
Plan of 3rd Floor

Plan of 1st Floor



Note: Units are in meters.
 () Shows area of room in square meters.

General View of Administration Building for Khon Kaen (scale 1:300)

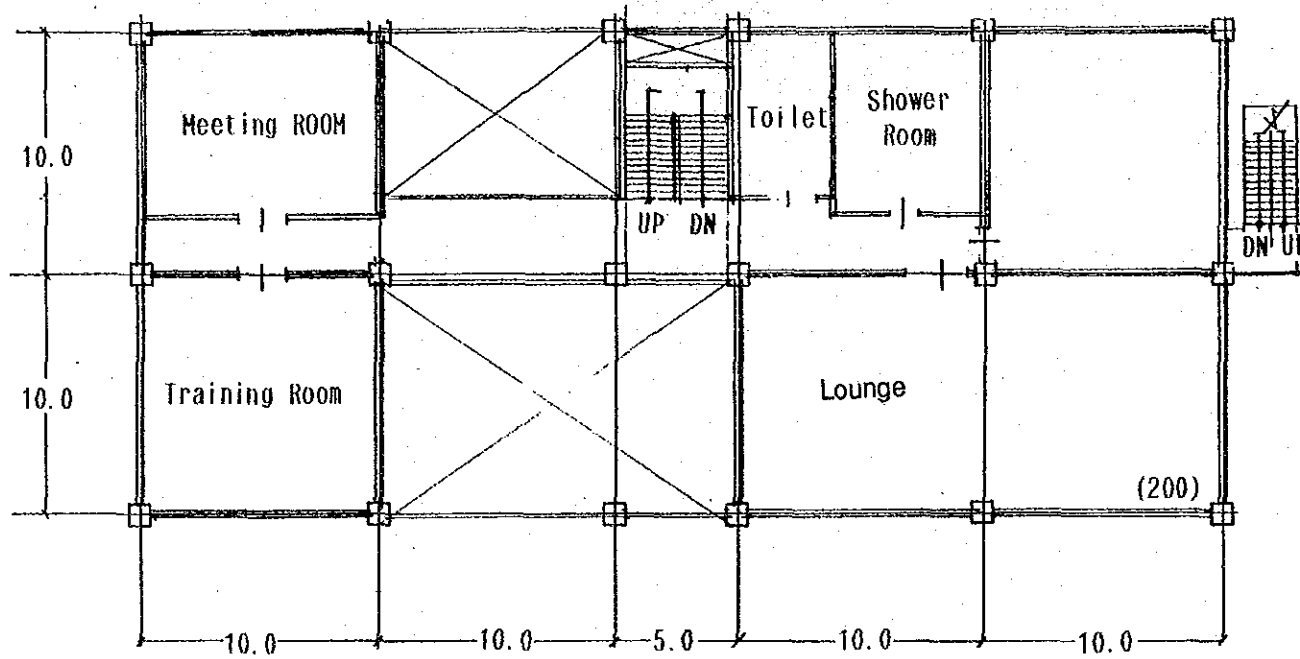


Elevation

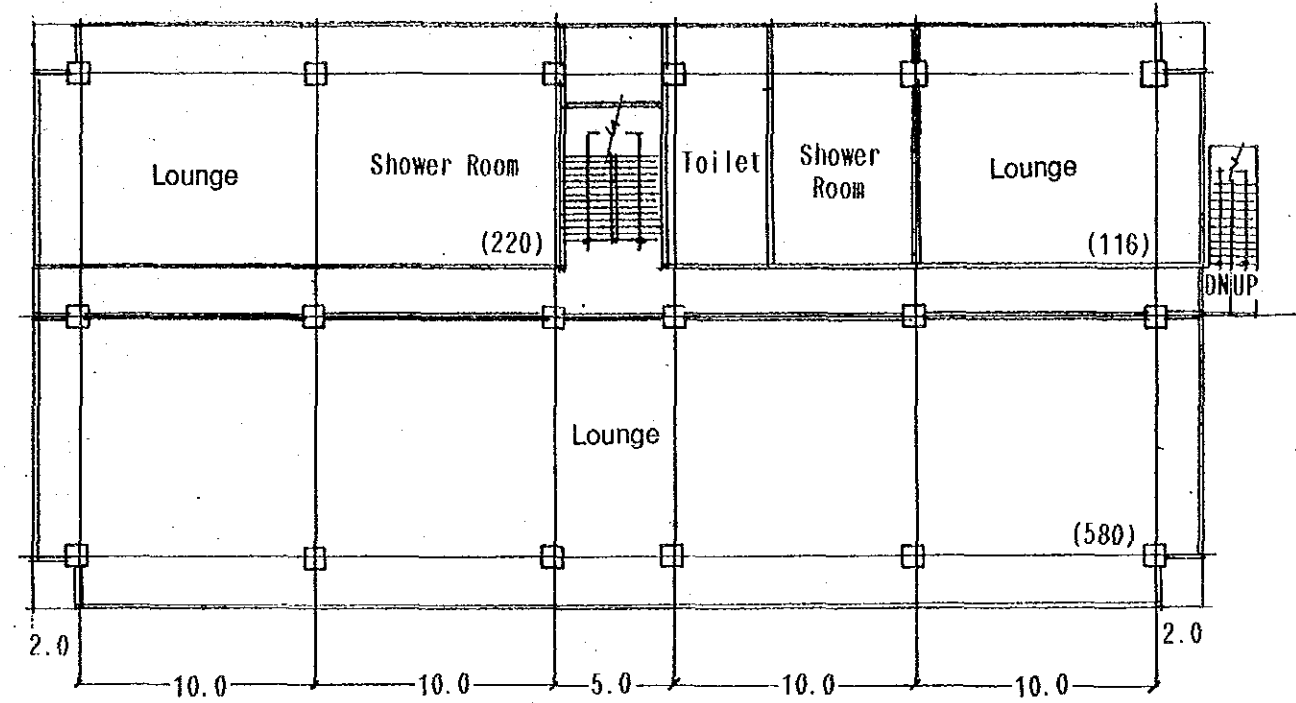
Note: Units are in meters.
 () Shows area of room in square meters.

General View of Administration Building for Hat Yai/Songkhla (scale 1:300)

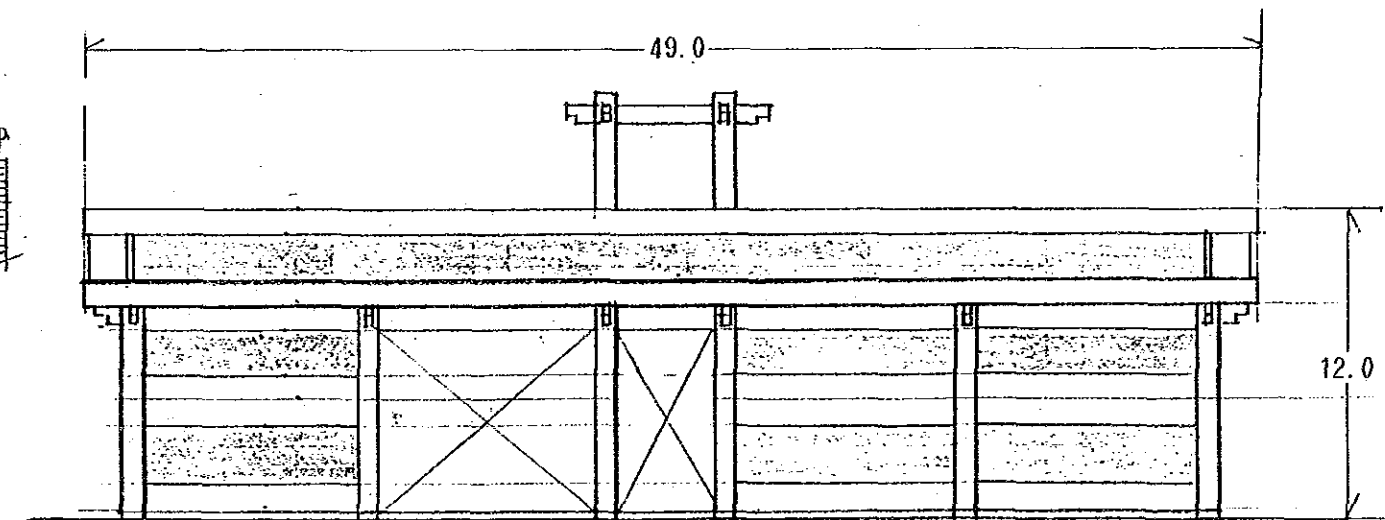
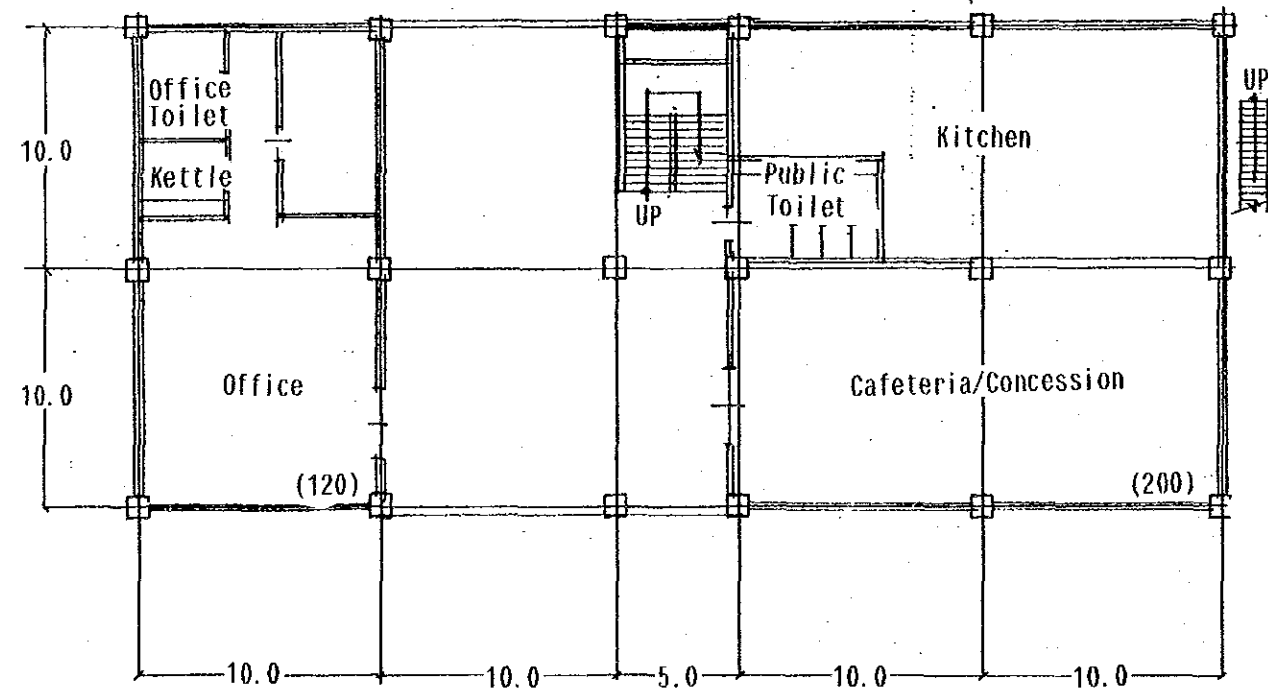
Plan of 2nd Floor



Plan of 3rd Floor



Plan of 1st Floor



Elevation

Note; Units are in meters.
 () Shows area of room in square meters.

General View of Office Building (scale 1:300)
(Chiang Mai, Khon Kaen, Hat Yai/Songkhla)

