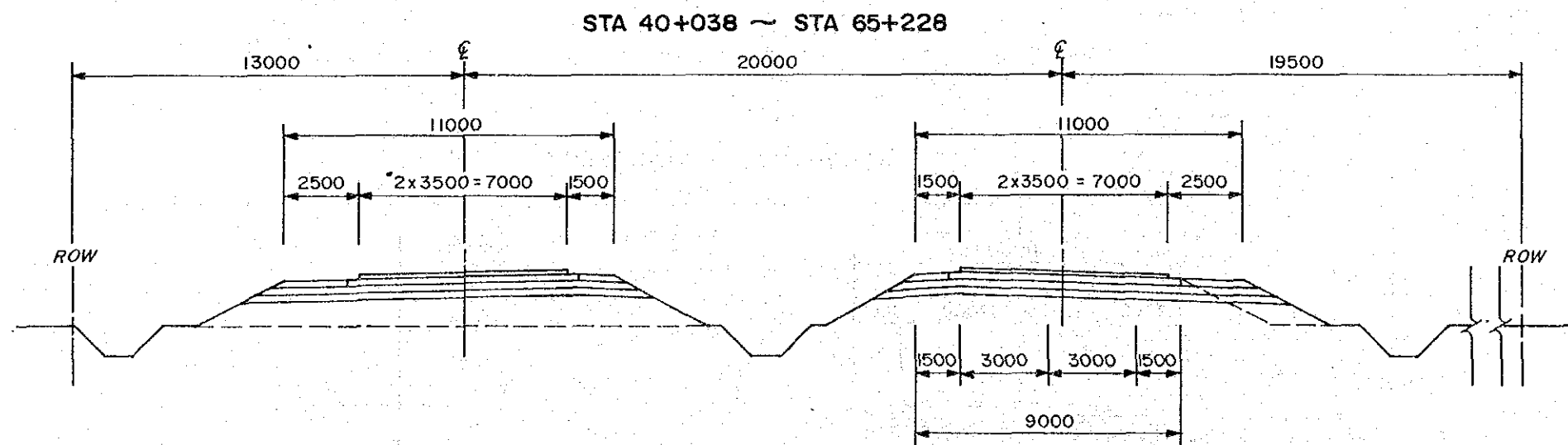
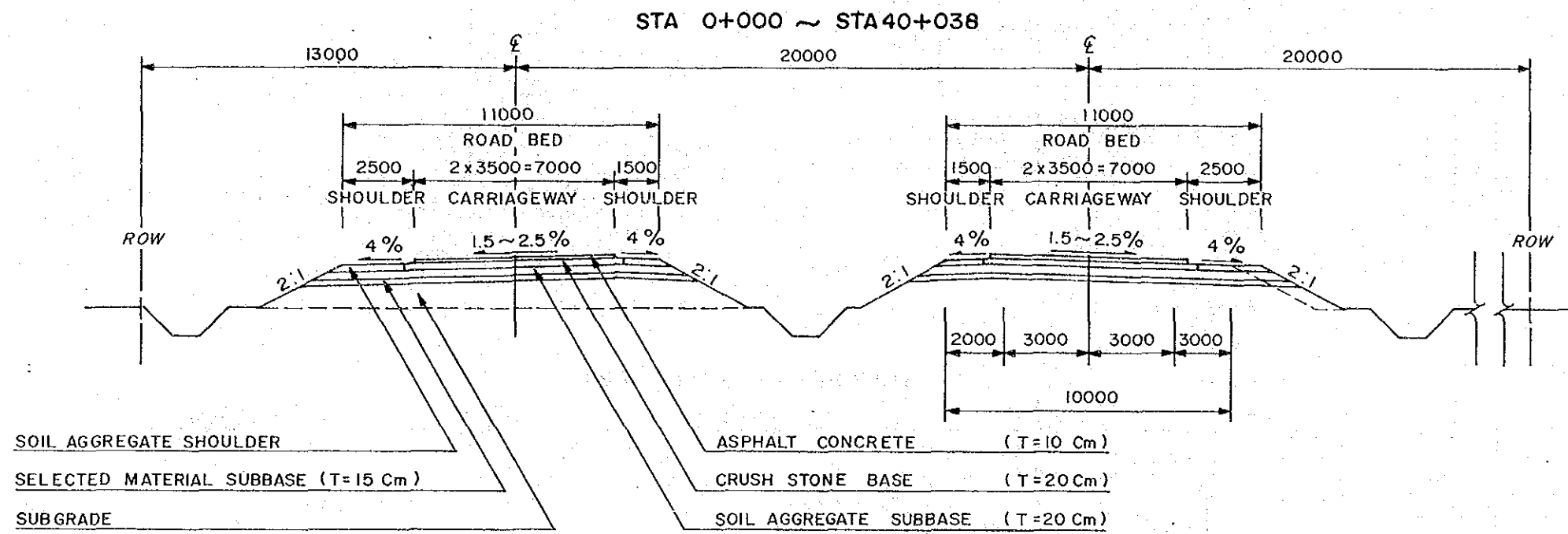


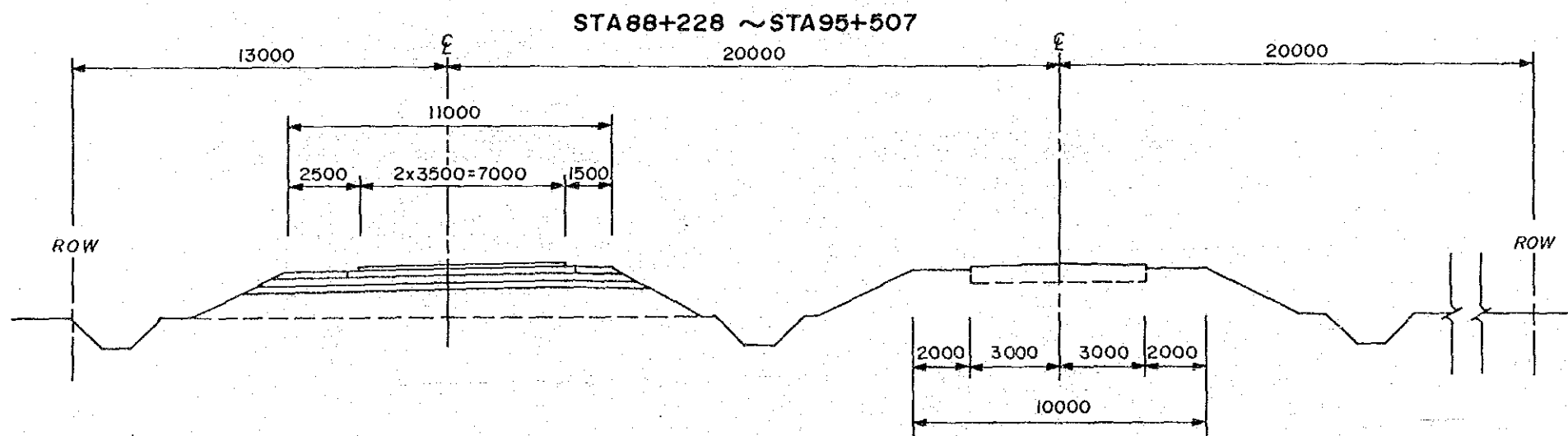
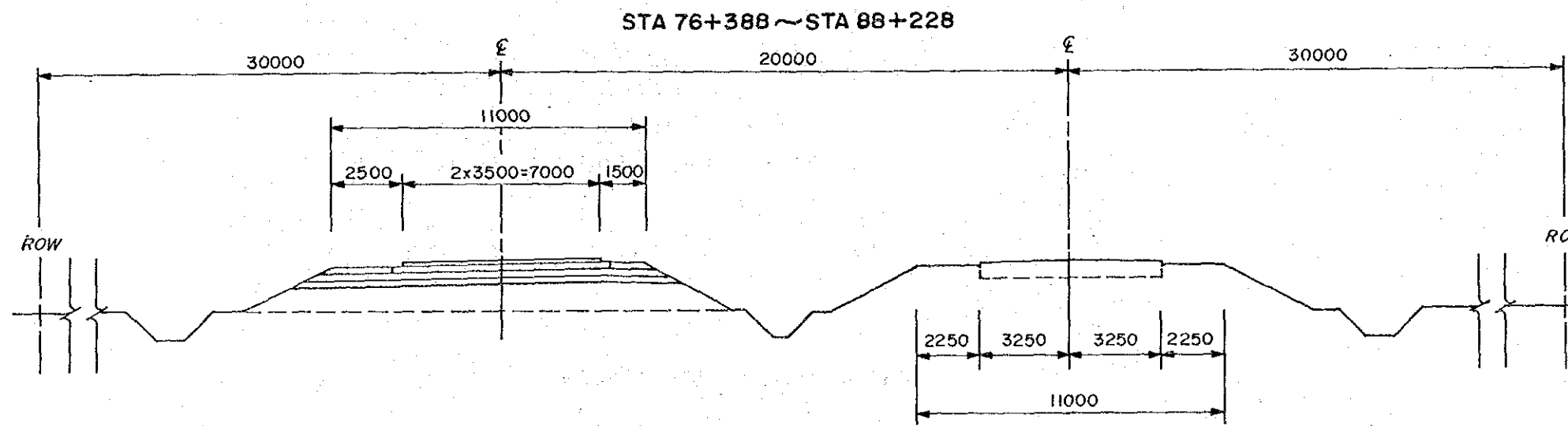
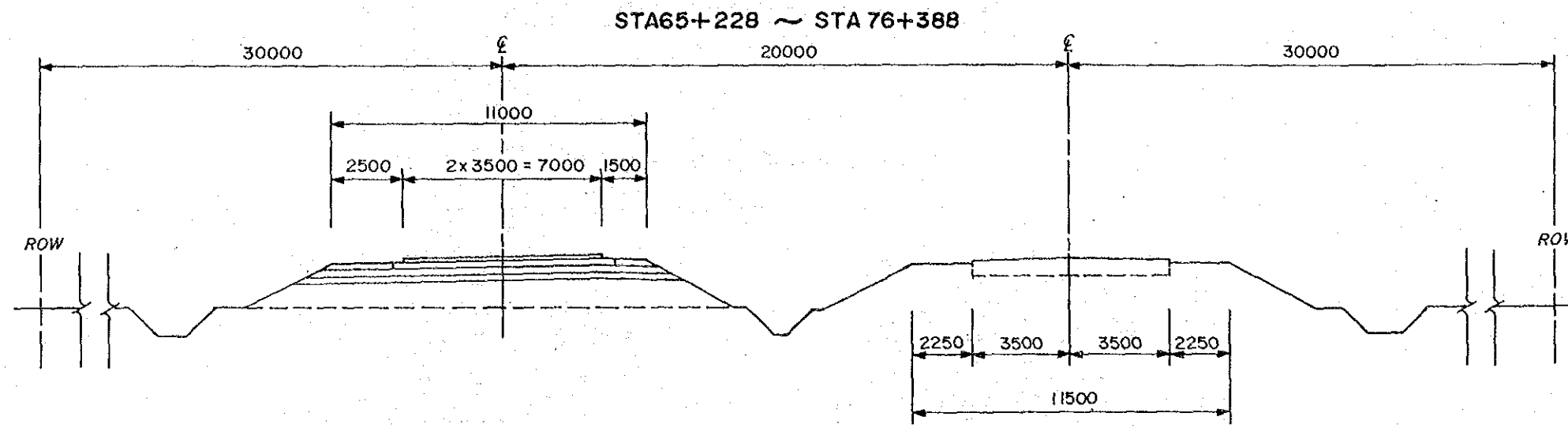
PROJECT NO. AD - 4 ROUTE NO. 4 AND 43 PHATTHALUNG - HAT YAI

(4/4)

STATION (Km)		90	92	94	95+507	96
VILLAGE ROAD INTERSECTION					J. Rt. 4	
LAND USE		RUBBER, RICE				
TERRAIN		NA				
FLOODING LENGTH		NA				
EXISTING CONDITIONS	RIGHT OF WAY	40.00 M (20.00+20.00)				
	ALIGNMENT	HOR.	NA			
		VER.	NA			
	CROSS SECTION	P3 2.00+6.00+2.00 = 10.00 M				
	SURFACE	SA+ASC (GOOD/FAIR) + SA				
BRIDGES AND (Type - Width - Length (m))						
BOX CULVERTS (Width - Height - Length (m))	RC 8.0x8x9.5	RC 8.0x4x9.5		RC 8.0x3x6.7		
PROPOSED CONDITIONS	CROSS SECTION	PD 11.00+ EXISTING ROAD				
	TYPE OF IMPROVEMENT	AD (5) 7,279 M				
	BRIDGES (Type - Width - Length (m))	RC 11.0x76.0	RC 11.0x38.0		RC 11.0x20.1	

5) TYPICAL CROSS SECTION





6) CONSTRUCTION QUANTITIES AND COSTS

CONSTRUCTION QUANTITIES AND COSTS
(Project AD -4 Length = 95.507 Km)
(Improved Length 95.507 Km)

ITEM	Unit	Financial		Financial		Economic cost		Residual Value	
		Unit Cost Baht	Quantity	Total cost 1000 Baht	%	1000 Baht	%	1000 Baht	
EARTH WORK									
Clearing & Grubbing	SQ.M	1	1,714,037	1,714		83		90	
Roadway Excavation(Unclassified)	CU.M	30	0	0					
Embankment(Borrowed Material)	CU.M	100	1,318,924	131,892					
Slope Protection(Stripe Sodding)	SQ.M	6	859,436	5,157					
Sand Mat (t=0.5m)	SQ.M	50	0	0					
Excavate Existing Surface	SQ.M	2	796,683	1,593					
Thickness Over 10cm (2 Lay)	SQ.M	14	796,683	11,154					
SUB TOTAL				151,510		125,753		113,178	
SUBBASE AND BASE									
Subbase(Selected Material)	CU.M	190	327,899	62,301		83		50	
Subbase(Soil Aggregate)	CU.M	190	437,199	83,068					
Base Coarses(Crush Stone)	CU.M	280	244,317	68,409					
Shoulder(Soil Aggregate)	CU.M	190	109,300	20,767					
SUB TOTAL				234,545		194,672		97,336	
SURFACE									
Asphaltic Prime coat	SQ.M	13	1,125,145	14,627		83		50	
Asphaltic Tack coat	SQ.M	7	1,125,145	7,876					
Asphalt concrete Surfacing	CU.M	1,900	112,515	213,778					
SUB TOTAL				236,280		196,113		98,056	
STRUCTURES(Equivalent)									
RC Pipe Culvert(D= 600 m)	M	1,380	162	224		83		50	
(D= 800 m)	M	1,950	1,669	3,255					
(D=1000 m)	M	2,650	395	1,047					
(D=1200 m)	M	3,850	144	554					
RC Box Culvert(3-2.40*2.40 m)	M	17,100	485	8,294					
RC Bridge Widening	SQ.M	9,600	1,926	18,490					
RC Bridge (W=13.0 m)	M	83,200	836	69,555					
PC Bridge (W=13.0 m)	M	130,000	58	7,553					
SUB TOTAL				108,971		90,446		45,223	
TOTAL (a)				731,305		606,984		353,793	
Miscellaneous Works [(a)*7%]	Ls	1		51,191		42,489		24,766	
CONTRACT AMOUNT (b)				782,497		649,472		378,559	
PHYSICAL CONTINGENCIES [(b)*10%] (c)	Ls	1		78,250		64,947		37,856	
ENGINEERING & SUPERVISION [((b)+(c))*10%] (d)	Ls	1		86,075	85	73,163	0	0	0
LAND ACQUISITION(Average) (e)	SQ.M	50	942,591	47,130	100	47,130	100	47,130	
PROJECT COST [(b)+(c)+(d)+(e)]				993,951		834,713		463,544	
AVERAGE COST PER KM				10,407					

MAINTENANCE BUDGET CALCULATION

Project Road No, AD -4 Na= 9,300 Baht/Km/year
(Existing Road) Km= 1.162
Length = 95.507 Km

Laterite Surface

ITEMS	Existing		
	Condition	Factor	
1. A.D.T	A1	7600	0.95
2. Width Of Embankment (Surface & Shoulder)	A3	6.0 m	0.00
3. R-O-W Width	B1	40 m	0.13
4. Traffic Service Operation Topography	B2	0 - 3 %	0.05
5. Drainage Topography	B3	0 - 3 %	0.00
6. Bridge Quantity (m/Km)	B4	9	0.02
7. NO. Of Lanes		2	

Ks (Existing)= 1+0.7(A1+A3)+0.3(B1+B2+B3+B4) = 1.725
Maintenance cost + Overhead = KS * Km * Na * 1.28 = 23,861 Baht/Km/year
Total Cost(Existing) = Length *(Baht/Km/year)= 2,278,890 Baht/year
Financial Cost = 2,279,000 Baht/year
Economic Cost = 1,892,000 Baht/year
(1,891,570)Baht/year

Project Road No, AD -4 Na= 8,200 Baht/Km/year
(Proposed Road) Km= 1.001
Length = 95.507 Km

Asphalt Pavement

ITEMS	Proposed Road		
	Condition	Factor	
1. Surface /Base Type	X1	AC	0.00
2. Subgrade CBR	X2	4 %	0.50
3. A.D.T	X3	5,000(10,000)	1.88
4. Service Life (year)	X4	5	0.40
5. Pavement Width (m)	X5	7.0 m * 2	0.38
6. R-O-W Width (m)	Y1	50 m	0.05
7. Shoulder, Access, Median Width (m)	Y2	2.5 m * 2	0.10
8. Traffic Service Operation Topography	Y3	0 - 3 %	0.00
9. Drainage Topography	Y4	0 - 3 %	0.00
10. Bridge Quantity (m/Km)	Y5	3	0.00
11. NO. Of Lanes		4	

Ka(Existing) = 1+0.5(X1+X2+X3+X4+X5+Y1+Y2+Y3+Y4+Y5) = 2.655
Maintenance cost + Overhead = Ka * Km * Na * 1.28 = 27,895 Baht/Km/year
Total Cost(Existing) = Length *(Baht/Km/year)= 2,664,144 Baht/year
Financial Cost = 2,664,000 Baht/year
Economic Cost = 2,211,000 Baht/year
(2,211,120)Baht/year

7) Construction Schedule

Project AD-4 Route No. 4 and 43 Phatthalung - Hat Yai

year and Month	First Year												Second Year												Third Year											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Land Acquisition	=====																																			
Preparatory Works	=====																																			
Earth Works													=====												=====											
Pavement Works													=====												=====											
Bridge Works													=====												=====											
Miscellaneous Works													=====												=====											
Clearing -Up																									=====											
Percentage Of Disbursement (%)	18 %												47 %												35 %											

8) Economic Evaluation

Project AD-4 Route No. 4 and 43 Phatthalung - Hat Yai

(unit ; 1000 Baht)

Year	Const- ruction Cost	Mainte- nance Cost	Total Cost	VOC Saving	Time Saving	Balance	Sensi. Analysis
						Benefit= Cost=	0.8 1.2
1990	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1993	155,978	0	155,978	0	0	(155,978)	(187,173)
1994	381,792	0	381,792	0	0	(381,792)	(458,151)
1995	296,943	0	296,943	0	0	(296,943)	(356,332)
1996	0	2,211	2,211	22,646	271,871	292,306	232,960
1997	0	2,211	2,211	51,952	350,381	400,122	319,213
1998	0	2,211	2,211	81,258	428,891	507,938	405,466
1999	0	2,211	2,211	110,564	507,402	615,755	491,719
2000	0	2,211	2,211	139,870	585,912	723,571	577,972
2001	0	2,211	2,211	169,176	664,422	831,387	664,225
2002	0	2,211	2,211	182,914	654,421	835,124	667,215
2003	0	2,211	2,211	196,651	644,420	838,861	670,204
2004	0	2,211	2,211	210,389	634,420	842,597	673,194
2005	0	2,211	2,211	224,126	624,419	846,334	676,183
2006	0	2,211	2,211	237,864	614,418	850,071	679,172
2007	0	2,211	2,211	237,864	614,418	850,071	679,172
2008	0	2,211	2,211	237,864	614,418	850,071	679,172
2009	0	2,211	2,211	237,864	614,418	850,071	679,172
2010	0	2,211	2,211	237,864	614,418	850,071	679,172
Total	834,713	33,165	867,878	2,578,866	8,438,649	10,149,637	7,772,558
				EIRR =		42.93%	32.78%
				NPV (i;12%) =		1,785,338	
				B/C (i;12%) =		4.77	

PROJECT WD7-1

RT. 4009 SURAT THANI - WIANG SA

CHANGWAT: SURAT THANI, THUNG SONG

2) ROUTE MAP

3.11 Route No.4009 Surat Thani - Wiang Sa (WD7-1)

1) Summary

The aim of the project is to accommodate the increasing traffic generated by the factories located along the highway as well as to facilitate traffics directed to Surat Thani city and Krabi.

The project is divided into two sections: one in Surat Thani city inside the Surat Thani Bypass; another from Surat Thani Bypass to Wiang Sa. "FD" standard, divided four lane highway, is applied to the former section of 2.7 kilometers. Additional two lanes will be constructed on the same embankment with the existing highway. "F1" standard is applied to the latter section. The existing carriageway of 6.0 meters will be expanded to 7.0 meters.

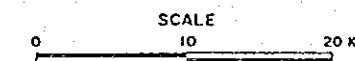
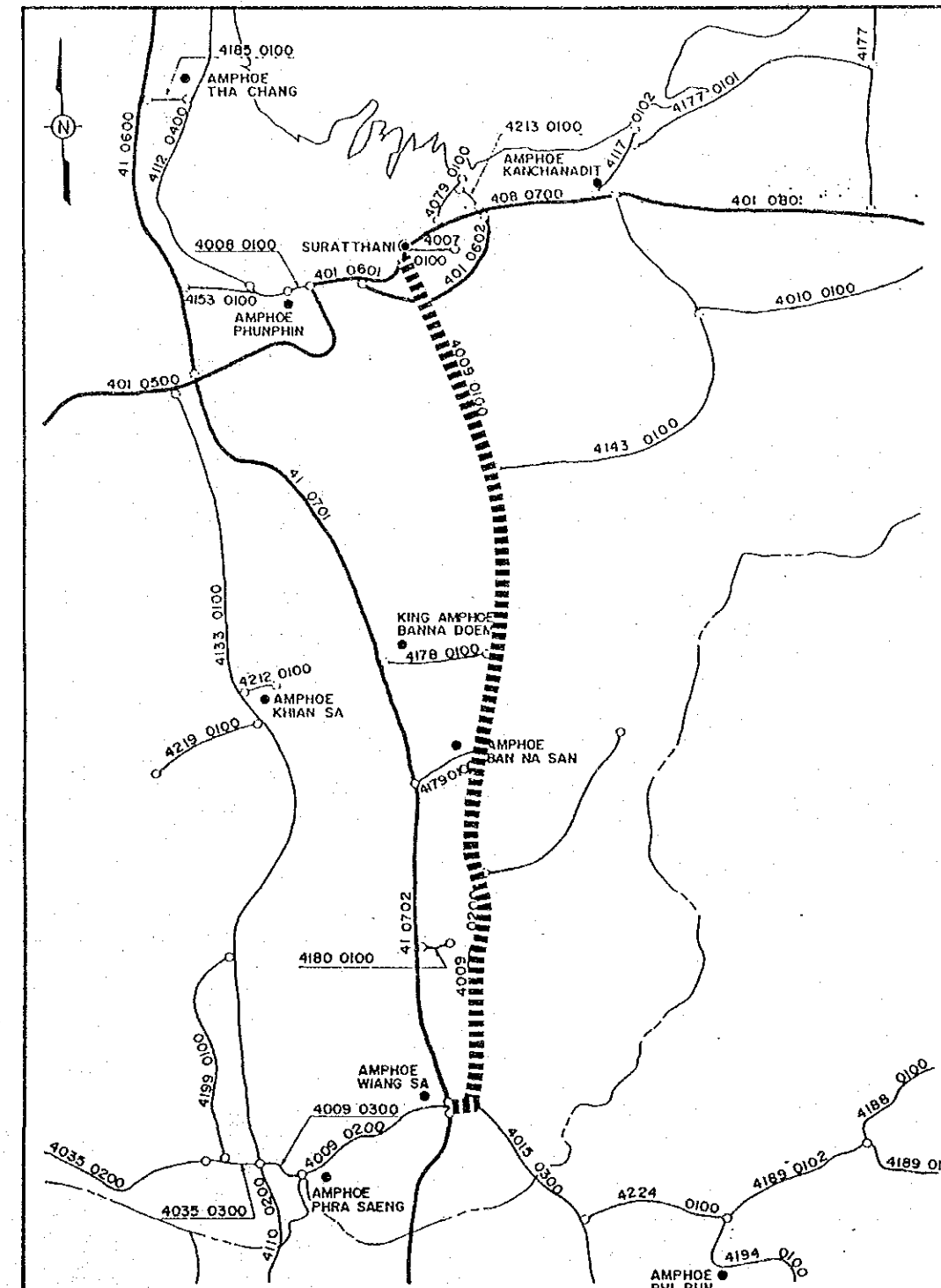
The project starts from Surat Thani municipal area and ends at the intersection with Route 41 in amphoe Wiang Sa by way of Surat Thani Bypass and amphoe Ban Na San. Total length of the project amounts to 62.8 kilometers. The project lies mostly in flat terrain, excluding hilly terrain in Ban Na San area. Fruit and rice cultivation is common in flat terrain while rubber plantation is prevailing in hilly terrain.

WD7-1	Description
Changwat	: Surat Thani and Thung Song
Name or Location	: Rt.4009 Surat Thani - Wiang Sa
Road Class	: FD and F1 (F4)
Cross Section (m)	: <2.5+7.0+0.5>x2 and 2.5+7.0+2.5 (1.75+5.50+1.75)
Surface Type	: SA/ASC/SA (SA/ASC/SA)
Surface Condition	: (F)
Length: Total	: 62.8 km
DOH Road	: 62.8 km

AADT<'96/'01/'06>	: 7,400 / 10,300 / 13,900

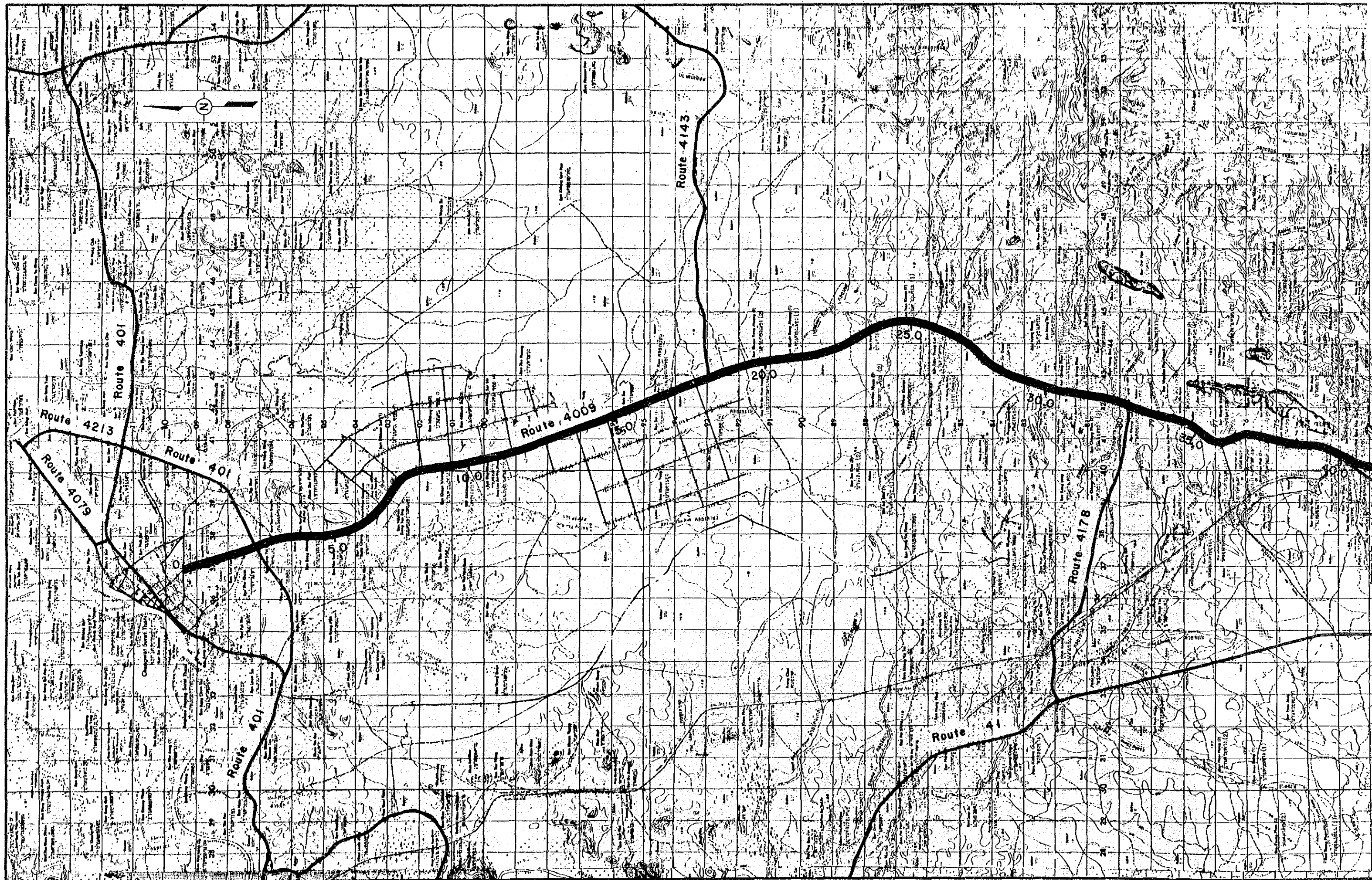
Financial Cost	: 166.2 million baht
NPV	: 316 million baht (12% discount rate)
B/C	: 5.1 (12% discount rate)
EIRR	: 43.3 %

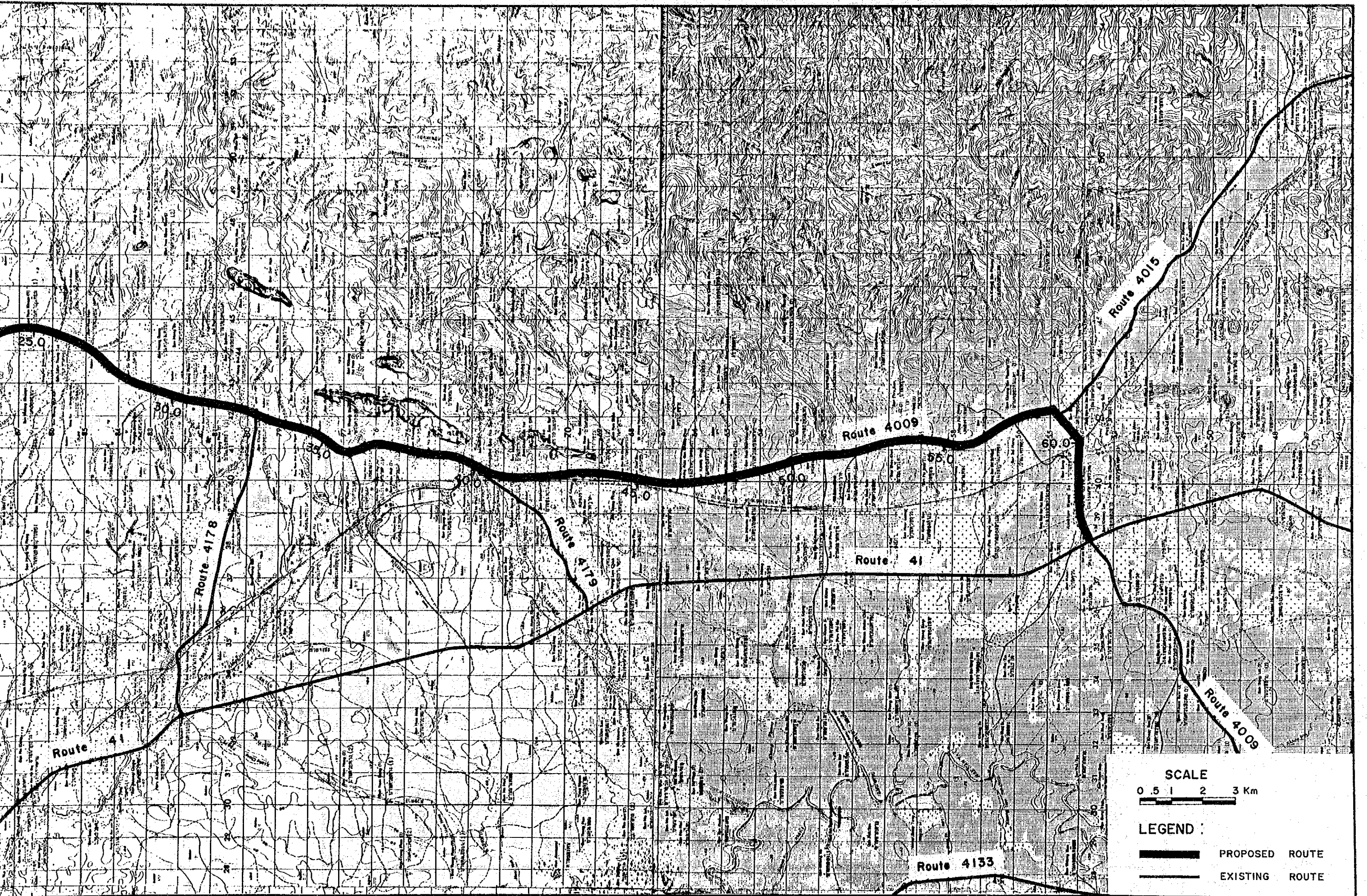
(): Existing Condition or Value	



LEGEND :

	PROJECT ROUTE		PROVINCIAL HIGHWAYS
	DIVIDED HIGHWAYS		CHANGWAT, AMPHOE
	NATIONAL HIGHWAYS		





4) PROFILE OF PROJECT

PROJECT NO. WD 7-1 ROUTE NO. 4009 SURAT THANI - WIANG SA

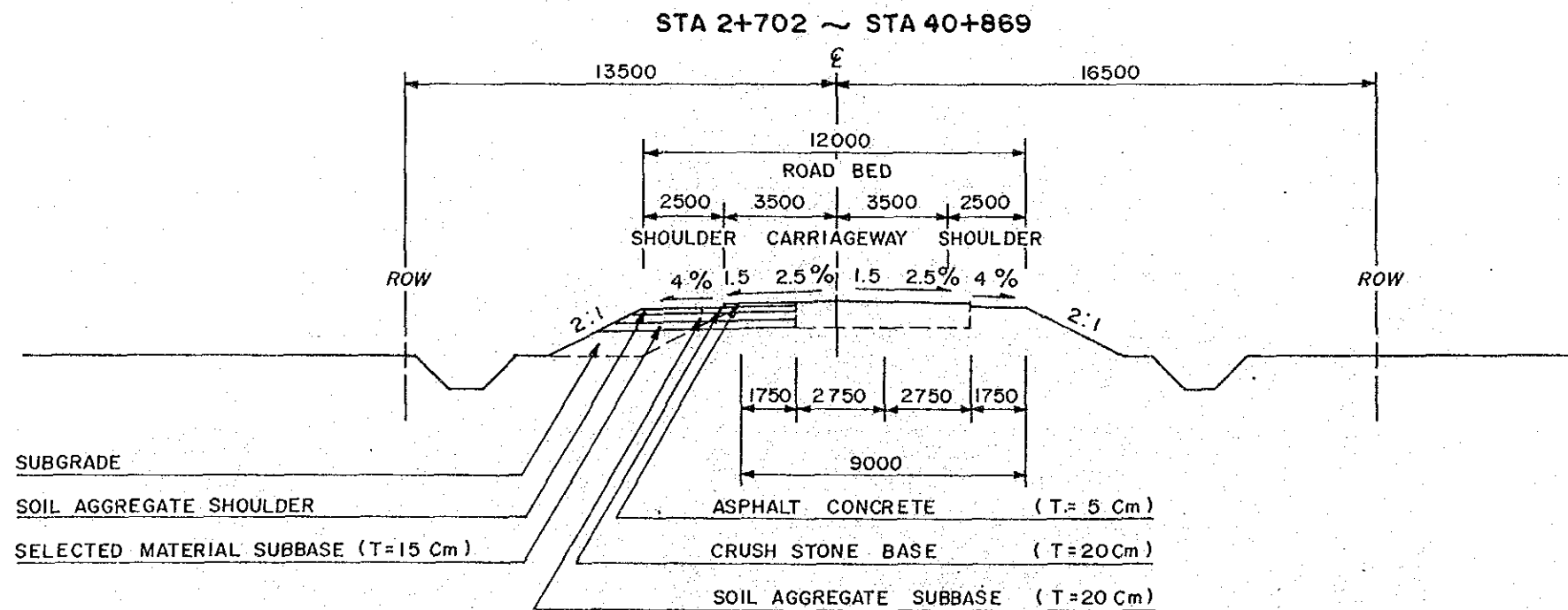
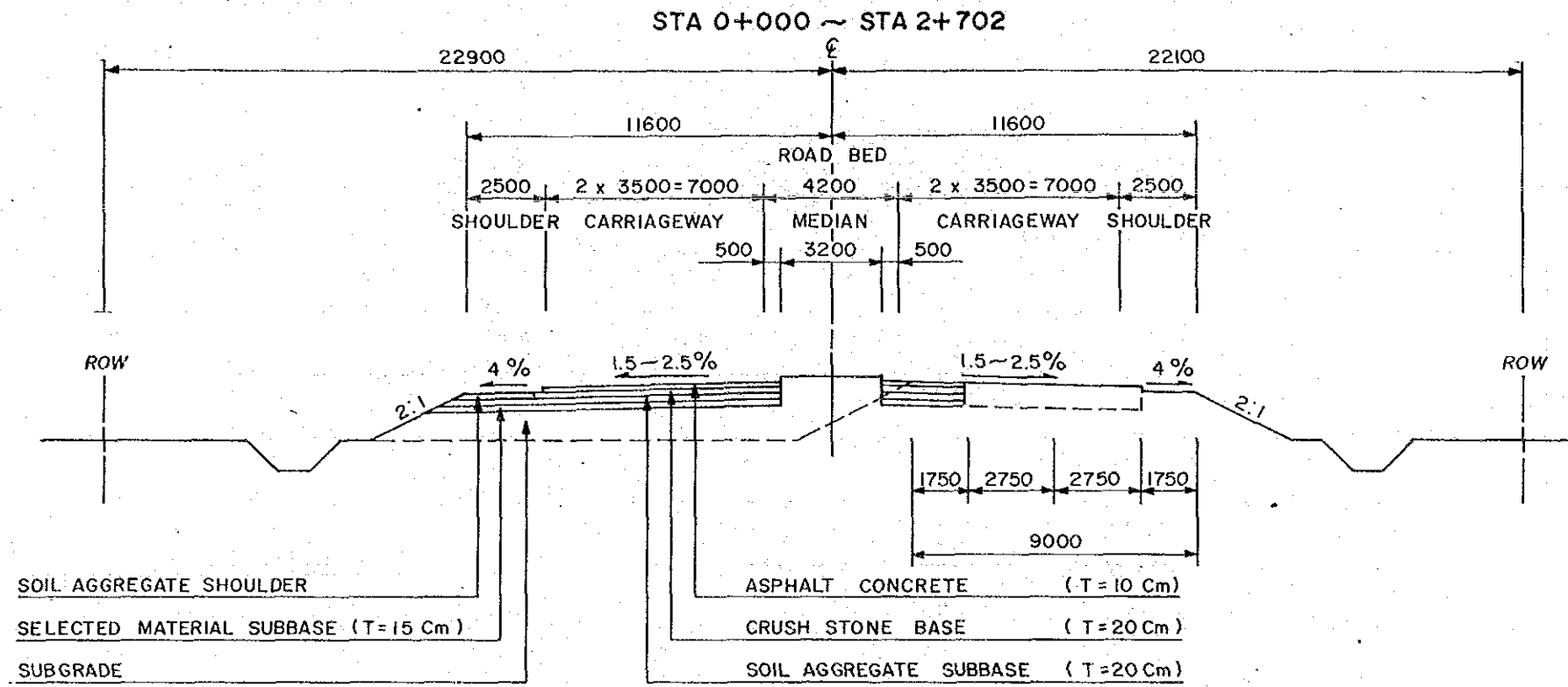
(1/3)

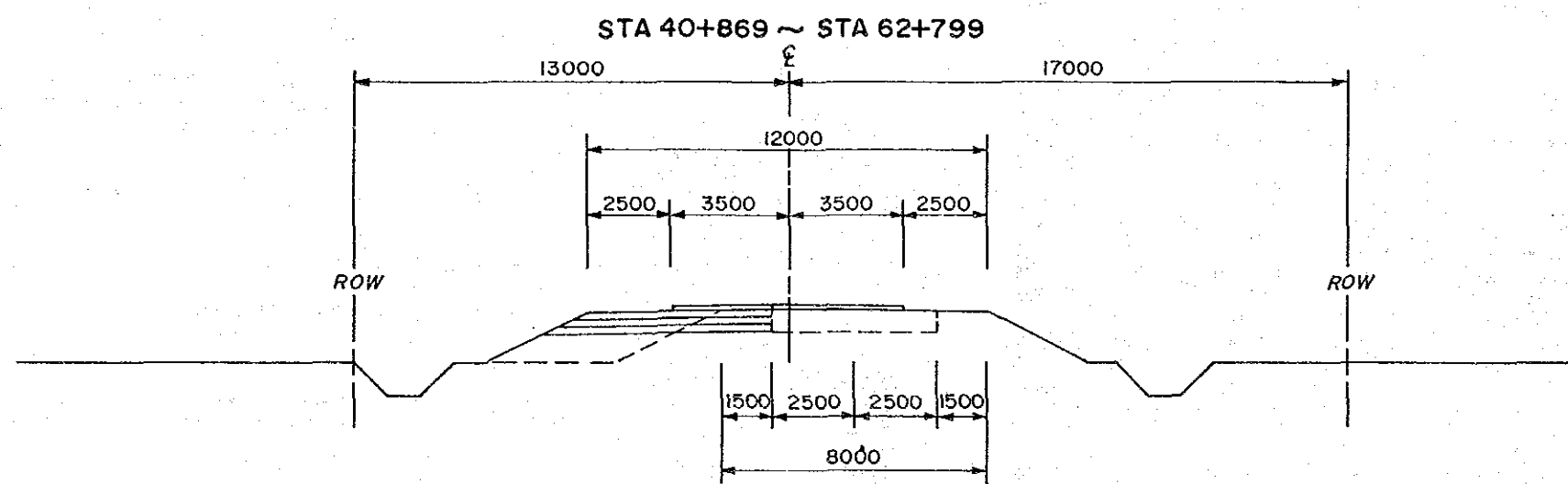
STATION (Km)		0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
VILLAGE ROAD INTERSECTION		SURAT THANI	MANITA NUKHRO J. Rt. 401	BANG YAI			NIKHOM KHUNTALE	DON KLIANG		J. Rt. 4143	SAI KHONG					THUNG TAO	
LAND USE		RUBBER, FRUIT 85% DEVELOPED															
TERRAIN		FLAT 26.9 KM. ROLLING 13.1 KM															
FLOODING LENGTH		NA															
EXISTING CONDITIONS	RIGHT OF WAY	30.00 M (15.00+15.00)															
	ALIGNMENT	HOR.	NUMBER OF HORIZONTAL CURVES 73														
		VER.	NUMBER OF VERTICAL CURVES 207														
	CROSS SECTION	F 4 1.75 + 5.50 + 1.75 = 9.00 M															
	SURFACE	SA + ASC (FAIR) + SA															
BRIDGES AND (Type - Width - Length (m))	BOX CULVERTS (Width - Height - Length (m))	BX3-1.5 x 1.2 x 11.0	RC 7.0 x 52.0										BX2-1.5 x 1.5 x 9.0	BX3-2.1 x 1.8 x 9.0	RC 7.0 x 24.0	RC 7.0 x 16.0	
PROPOSED CONDITIONS	CROSS SECTION	FD 10.00 x 2	FI 2.50 + 7.00 + 2.50 = 12.00 M														
	TYPE OF IMPROVEMENT	AD (WD) 2,702 M	WD (I) 38,167 M														
	BRIDGES (Type - Width - Length (m))	RC 20.0 x 52.0														RC 12.0 x 24.0	RC 12.0 x 16.0

STATION (Km)		30	32	34	36	38	40	42	44	46	48	50	52	54	56	57+938	58+407	60		
VILLAGE ROAD INTERSECTION			J. Rt. 4178			KHLONG HA		J. Rt. 4179 NA SAN									J. Rt. 4015 BAN SONG			
LAND USE		RUBBER, FRUIT, 85% DEVELOPED							RICE, RUBBER, FRUIT, VEGETABLE, 98% DEVELOPED											
TERRAIN		FLAT 26.9 KM ROLLING 13.1 KM							FLAT 34.5 KM ROLLING 1.0 KM											
FLOODING LENGTH		NA							NA											
EXISTING CONDITIONS	RIGHT OF WAY	30.00 M (15.00+15.00)							30.00 M (15.00+15.00)											
	ALIGNMENT	HOR.	NUMBER OF HORIZONTAL CURVES 73							NA										
		VER.	NUMBER OF VERTICAL CURVES 207							NA										
	CROSS SECTION	F 4 1.75 + 5.50 + 1.75 = 9.00M							F 4 1.50 + 5.00 + 1.50 = 8.00 M											
	SURFACE	SA + ASC (FAIR) + SA							SA + DBST (FAIR) + SA											
BRIDGES AND (Type - Width - Length (m))	BOX CULVERTS (Width - Height - Length (m))	31+774	32+450	33+685	35+627		39+514													
		RC 7.0 x 56.0	RC 7.0 x 10.0	BX3-1.5x1.2x90	RC 7.0 x 18.0		RC 8.0 x 98.0 BX4-3.9 x 3.6x90		RC 7.0 x 10.0	RC 7.0 x 10.0	RC 7.0 x 10.0	RC 7.0 x 10.0	RC 7.0 x 15.0	RC 7.0 x 10.0	RC 7.0 x 10.0	RC 7.0 x 10.0	RC 7.0 x 10.0	RC 7.0 x 30.0		
PROPOSED CONDITIONS	CROSS SECTION	F 1 2.50 + 7.00 + 2.50 = 12.00 M																		
	TYPE OF IMPROVEMENT	WD (1)							WD (2) 21,930 M											
	BRIDGES (Type - Width - Length (m))							40+869												
		RC 12.0 x 56.0	RC 12.0 x 10.0		RC 12.0 x 18.0		RC 12.0 x 98.0		RC 12.0 x 10.0	RC 12.0 x 10.0	RC 12.0 x 10.0	RC 12.0 x 10.0	RC 12.0 x 15.0	RC 12.0 x 10.0	RC 12.0 x 10.0	RC 12.0 x 10.0	RC 12.0 x 10.0	RC 12.0 x 10.0	RC 12.0 x 30.0	

STATION (Km)		60	62	62+799	64
VILLAGE ROAD INTERSECTION				J. Rt. 41	
LAND USE					
TERRAIN					
FLOODING LENGTH					
EXISTING CONDITIONS	RIGHT OF WAY				
	ALIGNMENT	HOR.			
		VER.			
	CROSS SECTION	F 4, 8.00 M			
	SURFACE				
BRIDGES AND (Type - Width - Length (m))					
BOX CULVERTS (Width - Height - Length (m))			RC 7.0 x 20.0		
PROPOSED CONDITIONS	CROSS SECTION	F 1, 12.00 M			
	TYPE OF IMPROVEMENT	WD (2)			
	BRIDGES (Type - Width - Length (m))			RC 12.0 x 20.0	

5) TYPICAL CROSS SECTION





6) CONSTRUCTION QUANTITIES AND COSTS

CONSTRUCTION QUANTITIES AND COSTS
(Project WD 7-1 Length = 62.799 Km)
(Improved Length 62.799 Km)

ITEM	Unit	Financial		Financial		Economic cost		Residual Value	
		Unit Cost Baht	Quantity	Total cost 1000 Baht	%	1000 Baht	%	1000 Baht	
EARTH WORK									
Clearing & Grubbing	SQ.M	1	240,589	241		83		90	
Roadway Excavation(Unclassified)	CU.M	30	0	0					
Embankment(Borrowed Material)	CU.M	100	221,718	22,172					
Slope Protection(Stripe Sodding)	SQ.M	6	210,628	1,264					
Sand Mat (t=0.5m)	SQ.M	50	0	0					
Excavate Existing Surface	SQ.M	2	0	0					
Thickness Over 10cm (2 Lay)	SQ.M	14	142,095	1,989			21,302		19,172
SUB TOTAL				25,666					
SUBBASE AND BASE									
Subbase(Selected Material)	CU.M	190	56,603	10,755		83		50	
Subbase(Soil Aggregate)	CU.M	190	75,466	14,339					
Base Coarses(Crush Stone)	CU.M	280	39,640	11,099					
Shoulder(Soil Aggregate)	CU.M	190	27,632	5,250			34,397		17,199
SUB TOTAL				41,442					
SURFACE									
Asphaltic Prime coat	SQ.M	13	179,361	2,332		83		50	
Asphaltic Tack coat	SQ.M	7	115,416	808					
Asphalt concrete Surfacing	CU.M	1,900	13,354	25,373			23,665		11,833
SUB TOTAL				28,512					
STRUCTURES(Equivalent)									
RC Pipe Culvert(D= 600 m)	M	1,380	230	317		83		50	
(D= 800 m)	M	1,950	11	21					
(D=1000 m)	M	2,640	203	536					
RC Box Culvert(3-2.40*2.40 m)	M	17,100	19	325					
RC Bridge (W=15.0 m)	M	96,000	0	0					
RC Bridge Widening	SQ.M	9,600	3,208	30,797					
PC Bridge (W=15.0 m)	M	150,000	0	0					
SUB TOTAL				31,996			26,557		13,279
TOTAL (a)				127,617			105,922		61,482
Miscellaneous Works [(a)*7%]	Ls	1		8,933			7,415		4,304
CONTRACT AMOUNT (b)				136,550			113,336		65,786
PHYSICAL CONTINGENCIES [(b)*10%] (c)	Ls	1		13,655			11,334		6,579
ENGINEERING & SUPERVISION [(b)+(c))*10%] (d)	Ls	1		15,020	85		12,767	0	0
LAND ACQUISITION(Average) (e)	SQ.M	25	40,530	1,013	100		1,013	100	1,013
PROJECT COST [(b)+(c)+(d)+(e)]				166,239			138,451		73,377
AVERAGE COST PER KM				2,647					

MAINTENANCE BUDGET CALCULATION

Project Road No, WD 7-1 (Existing Road) Na= 8,200 Baht/Km/year Km= 1.00 Length = 62.799 Km

Asphalt Pavement

ITEMS	Existing Road		
	Condition		Factor
1. Surface /Base Type	X1	AC	0.00
2. Subgrade CBR	X2	4 %	0.50
3. A.D.T	X3	4,500	1.64
4. Service Life (year)	X4	10	1.40
5. Pavement Width (m)	X5	5.5 m	0.02
6. R-O-W Width (m)	Y1	30 m	0.00
7. Shoulder, Access, Median Width (m)	Y2	1.75 m	0.00
8. Traffic Service Operation Topography	Y3	0 - 3 %	0.00
9. Drainage Topography	Y4	0 - 3 %	0.00
10. Bridge Quantity (m/Km)	Y5	7	0.00
11. NO. Of Lanes		2	

Ka(Existing) = 1+0.5(X1+X2+X3+X4+X5+Y1+Y2+Y3+Y4+Y5) = 2.78
 Maintenance cost + Overhead = Ka * Km * Na * 1.28 = 29,208 Baht/Km/year
 Total Cost(Existing) = Length *(Baht/Km/year) = 1,834,237 Baht/year
 Financial Cost = 1,834,000 Baht/year
 Economic Cost = 1,522,000 Baht/year
 (1,522,220)Baht/year

Project Road No, WD 7-1 (Proposed Road) Na= 8,200 Baht/Km/year Km= 1.00 Length = 62.799 Km

Asphalt Pavement

ITEMS	Proposed Road		
	Condition		Factor
1. Surface /Base Type	X1	AC	0.00
2. Subgrade CBR	X2	4 %	0.50
3. A.D.T	X3	3,300(6,500)	1.14
4. Service Life (year)	X4	5	0.40
5. Pavement Width (m)	X5	7 m	0.19
6. R-O-W Width (m)	Y1	30 m	0.00
7. Shoulder, Access, Median Width (m)	Y2	2.5 m	0.05
8. Traffic Service Operation Topography	Y3	0 - 3 %	0.00
9. Drainage Topography	Y4	0 - 3 %	0.00
10. Bridge Quantity (m/Km)	Y5	7	0.00
11. NO. Of Lanes		2	

Ka = 1+0.5(X1+X2+X3+X4+X5+Y1+Y2+Y3+Y4+Y5) = 2.14
 Maintenance cost + Overhead = Ka * Km * Na * 1.28 = 22,484 Baht/Km/year
 Total Cost = Length *(Baht/Km/year) = 1,411,967 Baht/year
 Financial Cost = 1,412,000 Baht/year
 Economic Cost = 1,172,000 Baht/year
 (1,171,960)Baht/year

7) Construction Schedule

Project WD7-1 Route No. 4009 Surat Thani - Wiang Sa (including additional lane to city)

year and Month	First Year												Second Year												Third Year											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Land Acquisition	=====																																			
Preparatory Works	=====																																			
Earth Works	=====																																			
Pavement Works													=====																							
Bridge Works													=====																							
Miscellaneous Works													=====												=====											
Clearing -Up																									=====											
Percentage Of Disbursement (%)	28 %												45 %												27 %											

8) Economic Evaluation

Project WD7-1 Route No. 4009 Surat Thani - Wiang Sa (including additional lane to city)

(unit ; 1000 Baht)

Year	Const- ruction Cost	Mainte- nance Cost	Total Cost	VOC Saving	Time Saving	Balance	Sensi. Analysis Benefit= Cost=
1990	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1993	36,572	0	36,572	0	0	(36,572)	(43,886)
1994	61,564	0	61,564	0	0	(61,564)	(73,877)
1995	40,314	0	40,314	0	0	(40,314)	(48,376)
1996	0	(186)	(186)	12,091	67,491	79,768	63,889
1997	0	(186)	(186)	12,901	67,931	81,018	64,889
1998	0	(186)	(186)	13,710	68,372	82,268	65,889
1999	0	(186)	(186)	14,520	68,812	83,518	66,889
2000	0	(186)	(186)	15,329	69,253	84,768	67,889
2001	0	(186)	(186)	16,139	69,693	86,018	68,889
2002	0	(186)	(186)	18,725	89,068	107,978	86,457
2003	0	(186)	(186)	21,310	108,442	129,938	104,025
2004	0	(186)	(186)	23,896	127,817	151,899	121,593
2005	0	(186)	(186)	26,481	147,191	173,859	139,161
2006	0	(186)	(186)	29,067	166,566	195,819	156,730
2007	0	(186)	(186)	29,067	166,566	195,819	156,730
2008	0	(186)	(186)	29,067	166,566	195,819	156,730
2009	0	(186)	(186)	29,067	166,566	195,819	156,730
2010	0	(186)	(186)	29,067	166,566	195,819	156,730
Total	138,450	(2,790)	135,660	320,437	1,716,900	1,901,677	1,467,078
				EIRR =		43.34%	32.92%
				NPV (i;12%) =		315,800	
				B/C (i;12%) =		5.05	