MINUTES OF MEETING
ON
THE DRAFT FINAL REPORT
OF
THE FEASIBILITY STUDY ON
THE CAN THO BRIDGE CONSTRUCTION
IN
SOCIALIST REPUBLIC OF VIET NAM
BETWEEN
MINISTRY OF TRANSPORT

AND
JAPAN INTERNATIONAL COOPERATION AGENCY
THE STUDY TEAM

PROJECT MANAGEMENT UNIT MY THUAN

Hanoi, 9th July 1998

Mr. Le. Long Dinh Director General

PMU My Thuan

Ministry of Transport

Mr. Kataufumi Matsuzawa

Team Leader

Study Team

Japan International Cooperation

Agency

Witnessed by

Mr. Truong Tan Vien Deputy Director General

Planning & Investment Department

Ministry of Transport

林義信

Mr. Yoshinobu Hayashi Chairman of Advisory Committee Japan International Cooperation Agency

MINUTES OF MEETING

In accordance with the Scope of Work (hereinafter referred to as "S/W") dated 25 March 1997 between the Japan International Cooperation Agency (hereinafter referred to as "JICA") and the Ministry of Transport (hereinafter referred to as "MOT"), the Study Team has sent 30 sets of the Draft Final Report of the Feasibility Study on the Can Tho Bridge Construction in the Socialist Republic of Viet Nam (hereinafter referred to as "the Study") to MOT in late June 1998.

A series of discussions were held between the PMU My Thuan of MOT and the Study Team from 2nd July 1998, and then a Steering Committee Meeting was held on 9th July 1998. The following items were concluded and agreed upon among the participants as per attachment.

- Basically, the Steering Committee agreed with the contents of the Draft Final Report of the Feasibility Study on the Can Tho Bridge Construction.
- Approval of Environmental Impact Assessment of the Feasibility Study
 PMU My Thuan explained the proceeding as follows:
 - The Committee meeting for appraisal was held on June 17, 1998, by the Ministry of Science, Technology, and Environment.
 - The Certificate from the committee was issued on June 22, 1998 with some comments.
 - Approval on the report would be within 2 weeks from now.
- Navigational Clearance for the Hau River

Vietnamese Mekong Commission after consultation of International Mekong Commission notified that the vertical clearance of 37.5m for Can Tho Bridge is accepted by involved governments.

MOT suggests the vertical clearance of 39.0m should be applied for future development of the region. But Study Team should make further study to decide the water level taking into account tidal effect.

Other Requirements

The following items were confirmed.

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- Wind load, vessel collision force and measure to keep safety of the bridge should be further studied.
- Span arrangements should be further studied for the approach span considering the span lengths of 33, 40 and 120m which are available in Vietnam. The precast concrete piles with square and round sections and bored piles should be considered as alternative of steel piles.
- 3) AASHTO 94 may be selected as the dominant standards for the subsequent design and the Vietnamese and Japanese standards would have to be used for the proof check.
- Intersection with Highway No.54 on the Vinh Long side should be further studied. The round-about intersection on the Can Tho side should meet the Master Plan of Can Tho City including the traffic flows. The design of bridges on the approach roads should meet the requirement of waterways.
- 5) The chapter of the Training and Technology Transfer should be made in further detail in consistent with scales of the project.
- 6) An alternative of the implementation program reflecting the desire of the Vietnamese government to have the Project completion in 2004 should be added to the report.
- 7) Related to the financial aspect, the Vietnamese side wishes to increase the foreign loan, if possible, over 85% of the project cost taking into account the present difficult financing situation in Vietnam.
- 8) An access to the island from the bridge should be examined for the purpose of tourism development.
- 9) The Final Report should confirm the Feasibility of the bridge options, and a tunnel option is no need to be studied.
- 10) The Study Team will provide further reasonable explanation about the cost estimate.

5. Reports to be Confidential

Unless otherwise mutually agreed upon by MOT and JICA, all the documents of this F/S would have to be maintained as confidential until the date of the approval on the Project by the Vietnamese Government.

6. Further Schedule

- MOT will send the written comments of the Vietnamese side relating to the above issues and involved others to JICA Vietnam Office until the end of July 1998.
- 2) JICA will send the final reports until the end of September 1998.
- 3) MOT tries for obtaining the approval on the Project investment decision from the Vietnamese Government as soon as possible.

PARTICICANTS

9TH July 1998

NAME	ORGANIZATION
~ VIETNAMESE SIDE ~	
1. NGUYEN TAN MAN	VICE MINISTER, MOT
6 1111/10/1/11/10/10 H [II IN IN I	DIRECTOR GENERAL, QUALITY CONTROL BUREAU, MOT
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8. LE THANH BAC	REPRESENTATIVE, VIETNAM NATIONAL MEKONG RIVER COMMITTEE
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15. NGUYEN ANH TUAN	CHIEF, PLANNING & INVESTMENT DIVISION, PMU MY THUAN, MOT
16. NGUYEN XUAN HIEP	CHIEF, BRIDGE PROJECT DIVISION, PMU MY THUAN, MOT
17. DUONG TRAM ANH	CHIEF REPRESENTATIVE, PMU MY THUAN OFFICE IN HANOI
18. NHU NGUYEN HONG CUONG	REPRESENTATIVE, PMU MY THUAN OFFICE IN HANOI
19. NGUYEN XUAN GIANG	DEPUTY DIRECTOR GENERAL, TEDI
20. CHU NGOC SUNG	DIRECTOR, BRIDGE AND TUNNEL ENGINEERING CONSULTANCY
21. DAO TRONG KIM	BRIDGE AND TUNNEL ENGINEERING CONSULTANCY
	VICE DIRECTOR, TEDI SOUTH

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PARTICICANTS

9TH July 1998

		J 6413 1550
NAME	ORGANIZATION	
~ JAPANESE SIDE ~		•
1. YOSHINOBU HAYASHI	JICA ADVISORY COMMITTEE	CHAIRMAN
2. HIDETO HATAKENAKA	JICA ADVISORY COMMITTEE	MEMBER
3. KAZUHIKO KIKUCHI	JICA VIETNAM OFFICE	
4. KOICHI KITO	JICA TOKYO	
5. KATSUFUMI MATSUZAWA	JICA STUDY TEAM	TEAM LEADER
6. AKIO NAKAMURA	JICA STUDY TEAM	CO-TEAM LEADER
7. TAKASHI KAMETANI	JICA STUDY TEAM	CONSTRUCTION PLANNER
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1.8 Decision on the Can Tho Bridge Construction based on the Pre-F/S by Prime Minister No.53021/KTN, October 21, 1997

Độc lập - Tự do - Hạnh phúc

Soi 3 質が BKH/VPTD V.v DATKT xâv dụng

Hà Nội, ngày 16 tháng 8 năm 1996

Cầu Càn Tho

cong vän den 5:: 39074 Nito 21/8-196

Kính gửi: THỦ TƯỚNG CHÍNH PHỦ

Bộ Giao thông vận tải có tờ trình số 1402/KHĐT ngày 23/5/1996 trình Thủ tướng Chính phủ xin phê duyệt dự án tiền khả thi xây dựng cầu Cần Thơ. Căn cứ Nghị định 42-CP ngày 16/7/1996 của Chính phủ về việc trình duyệt các dự án đầu tư, Bộ Kế hoạch và Đầu tư trình Thủ tướng Chính phủ ý kiến về dự án này như sau:

- 1. Quốc lộ 1A đoạn từ Thành phố Hồ Chí Minh đến Minh Hải là tuyên giao thông huyết mạch của đồng bằng Nam bộ. Với tốc độ tăng trường lưu lượng vận tài trong tương lai, năng lực vượt sông Hậu bằng phà tại khu vực Cần Tho hiện nay là không thể đáp ứng được. Vì vậy việc xem xét đầu tư xây dựng cầu Cần Thơ (quốc lộ 1A) là cần thiết để đáp ứng như cầu phải triển kinh tế xã hội của vùng. Bộ Kế hoạch và Đầu tư thống nhất với để nghị của Bộ Giao thông vận tải trình Thủ tướng xem xét và phê duyệt dụ an tiền khả thi đầu tư xây dụng cầu Cần Thơ.
- 2. Nhất trí với Bộ Giao thông vận tải các nội dung chủ yếu của dụ án TKT cầu Cần Thơ như sau:
- Vị trí xây dụng: Cách bến phả Cần Tho hiện nay khoảng 2,7 km về phía hạ lưu.
 - Quy mô công trình:
 - + Cầu vĩnh củu, chiều dài khoảng 2.500m
- + Khổ cầu: 4 làn xe ôtô + 2 làn xe máy + 2 luồng bộ hành và khoang cách cho các kiến trúc an toàn cần thiết.
 - + Đường vào cầu: Theo tiêu chuẩn đường cấp I đồng bằng.
- + Các thông số kỹ thuật khác sẽ được xác định cụ thể trong giai đoạn nghiên cứu khả thi.
- Tổng múc đầu tư: Khoảng 1.430 tỷ đồng (tương đương khoảng 130 triệu USD).

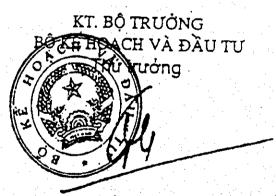
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- Nguồn vốn: ODA hoặc huy động các nguồn trong nước, gọi vốn đầu tư nước ngoài và trong nước dưới các hình thúc đầu tư thích hợp (BOT, BT...). Nguồn vốn sẽ làm rõ hơn trong giai đoạn nghiên cứu khả thi.
 - Thời gian thực hiện: Hoàn thành vào năm 2004.
- 3. Để có cơ sở quyết định đầu tư xây dụng cầu Cần Thơ đề nghị Thủ tướng Chính phủ:
- Giao Bộ Giao thông vận tải tổ chức nghiên cứu khả thi dụ án này để trình duyệt theo quy định hiện hành và thực hiện một số điểm sau:
- + Làm việc và thống nhất với các địa phương (Cần Thơ và Vĩnh Long) về những vấn đề có liên quan trong việc quy hoạch, xây dụng, khai thác sử dụng công trình.
- + Nghiên cứu giải pháp tăng năng lục thông qua sông Hậu trong thời gian quá độ sau khi cầu Mỹ Thuận được đưa vào sử dụng.
- + Chủ trì phối hợp với các cơ quan hữu quan tìm kiếm và xác định nguồn vốn cũng như phương thúc thích hợp để đầu tư xây dụng công trình.
- Giao Uỷ ban Sông Mê Kông Việt Nam làm việc với Uỷ ban Sông Mê Kông quốc tế khẳng định rõ vai trò hàng hải quốc tế của sông Hậu nhằm xác định tĩnh không và chiều rộng thông thuyền hợp ý.

Kính trình Thủ tướng xem xét và quyết định.

Noi nhán:

- Như trên
- Bo GTVT
- Bô Xây dưng
- Bộ Quốc phòng
- Bo KHCN & MT
- UBND anh Can Tho. Vinh Long
- Bộ Tài chính (TCĐT & PT)
- Ngàn hàng NN
- Các vụ: VPTĐ, CSHT, ĐP
- Luu VP.



Trần Xuân Giá

1.9 Submission on the Can Tho Bridge Construction by MPI based on Circular No.1402/KHDT May 25, 1996 from MOT, August 16, 1996

MINISTRY OF PLANNING AND INVESTMENT —OoO—

No: 3989 BKH/VPTD

SOCIALIST REPUBLIC OF VIETNAM Independence - Freedom - Happiness

Ha Noi, 16th August, 1996.

Regarding: The Pre-feasibility project on Can Tho Bridge Construction.

Dear: Governmental Prime Minister:

Ministry of Transport and Communications has already submitted the document No 1402/KHDT on 23 rd May 1996 to Governmental Prime Minister for approval of the Pre-Feasibility project on the Can Tho Bridge construction. Based on the Government's Decree 42-CP on 16 th July 1996 regarding the submission of investing projects, Ministry of Planning and Investment submits to Government's Prime Minister opinions on this project, as follows:

1. Highway No 1: The section from Ho Chi Minh city to Minh Hai is the main transport rout of the Southern Delta. Considering with increasing speed of transport volume in future, present capacity of ferry at Hau river in Can Tho is not able to meet it. Therefore, the consideration for investment on the Can Tho Bridge construction (Highway No 1) is necessary in order to meet needs on socio-economic development of the area. Ministry of Planning and Investment has already agreed to the suggestion of Ministry of Transport and Communications regarding submission to Prime Minister for consideration and approval of the Pre-feasibility project on the Can Tho construction.

- 2. Agreement with Ministry of Transport and Communications on the main contents of the Pre-feasibility project on the Can Tho Bridge construction are following:
- Construction location: It is far from Can Tho ferry about 2.7 km at down stream.
- Dimension of project:
- + Permanent bridge, the length of 2.500m
- + Bridge size: 4 lanes for cars + 2 lanes for motorcycle + 2 lanes for walking and distance for necessarily safe architectures.
- + Approach road to bridge: Based on the criteria of the first category of road of Delta.
- + Other technical parameters will be determined in the next stage of the feasibility study.
- Total Investment Capital: About 1,430 billions (equivalent of about 130 millions USD)
- Capital source: ODA or mobilizing Inland capital, calling up investment capital from foreign countries and Inland country with properly investment form (BOT,BT...) Capital source will be made more clearly in the stage of the feasibility study.

- Performing time: will be completed in 2004.
- 3. In order to have the basis for decision on construction-investment on the Can Tho Bridge. We would like to suggest Governmental Prime Minister:
- Authorizing Ministry of Transport and Communications to organize the feasibility study for this project, and submit for approval as per the current regulations, and do the following points:
- + Working and discuss with local areas (such as Can Tho and Vinh Long) regarding the related matters with plan, construction, exploiting, using the project.
- + Studying the methods for increasing capacity across Hau River in the transitional stage after My Thuan Bridge is used.
- + Leading, cooperating with the authorizing companies to seek and determine the capital source as well as proper methods to invest and construct the project.
- Authorizing Viet Nam Mekong River Committee to work with International Mekong River Committee to affirm clearly the duty on International navigation of Hau River and determine properly Navigation clearance and Wide-Navigation Clearance.

We would like to submit the above problems to Prime Minister for consideration and decision.

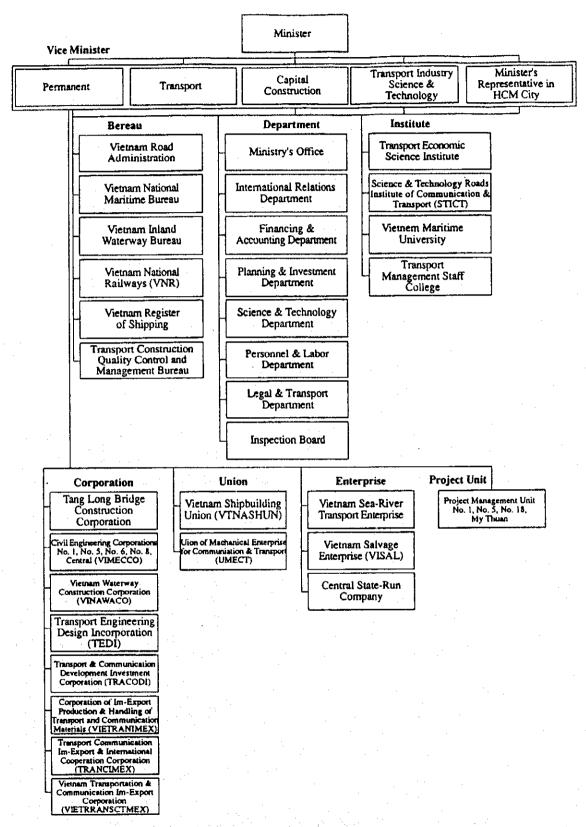
ON BEHALF OF MINISTER MINISTRY OF PLANNING AND INVESTMENT

Received Place:

- As above.
- Ministry of Transport and Communication.
- Ministry of Construction.
- Ministry of Navigational Defence
- Ministry of Techno-Science Environment
- Can Tho, Vinh Long People's Committees.
- Vietcombank (General Department of Investment Development)
- Departments: VPTD, Infrastructure, Coordinating.
- File.

TRAN XUAN GIA

Vice-Minister



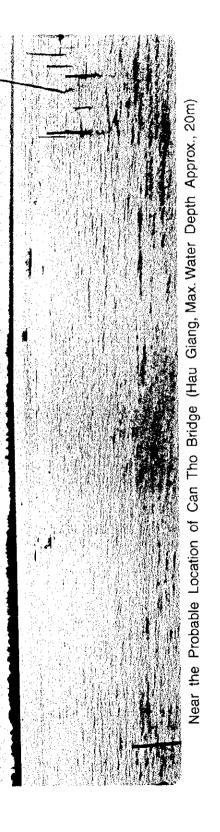
ORGANIZATION CHART OF MINISTRY OF TRANSPORTATION



The Feasibility Study on The Can Tho Bridge Construction in Socialist Republic of Viet Nam

ANNEXURE 2 STUDY AREA

2.1	Photographs
2.2	Socio-economic Data
	- GDRP by Sector and Province (at constant price of 1989)
	- Busic Socio-economic Indicators in Viet Nam
2.3	Taxes in Viet Nam





Bus-Terminal in Ca Mau (Southernmost of National Highway No.1)



Widening Project in the Section of National Highway No.1(Soc Trang to Ca Mau)



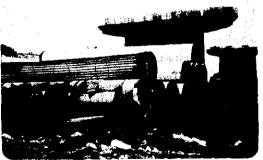
Vegetables beside the National Highway No.1 (Can Tho to Ca Mau)



Grain from the rice field along the National Highway No.1



Can Tho river flowing into the Hau Giaug



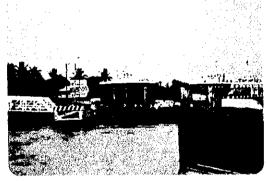
Concrete tube for pile foundations of Quang Trung bridge (Under Construction)



Traffic condition in the Can Tho city area



Vehicles on the Can Tho ferry boat



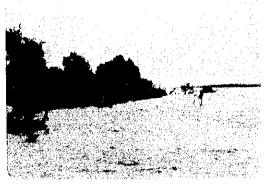
Can Tho ferry boats (National Highway No.1)



Can Tho ferry boats (National Highway No.1)



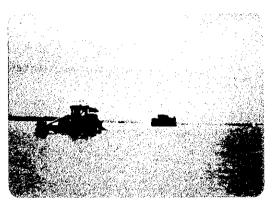
Vegetation (Mangrove) along Hau Giang



Prawn farming along Hau Giang



River bank erosion of Hau Giang



Waterway transportation of Han Giang



Existing Can Tho port



Export Processing Zone on the upstream of the Can Tho port



My Thuan ferry of the National Highway No.1



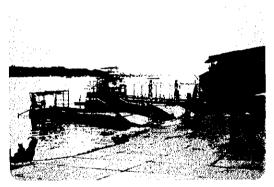
Trucks waiting for the my Thuan ferry boat



Ferry boat of Vam Cong (National Highway No.80)



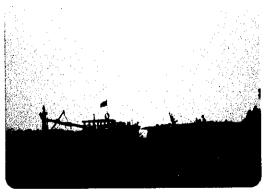
Ferry boat of An Hoa (National Highway No.91)



Ferry boat of Chau Doc



Example of ferry fare board



Rach Gia Port (National Highway No.80)



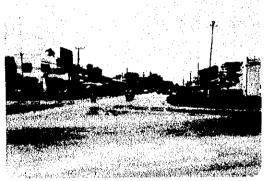
Chau Doc near the boundary to Cambodia (National Highway No.9)



Resurfacing project by financial assistance of World bank (HCM-city to can Tho)



Turning point between National highway No.1 & No.30



Turning point to My Thuan ferry (National Highway No.1)



National Highway No.1 (Can Tho to Ca Mau)



National Highway No.91 (Can Tho Chau Doc)



National Highway No.80 (NH No.91 to Rach Gia)

2.2 Socio-economic Data

- GDRP by Sector and Province (at constant price of 1989)

Table GDRP by Sector and Province (at constant prices of 1989)

Province		GDRP 1991 (at 1989 constant	share	GDRP 1995 (at 1989 constant	share	Average anuual
		prices, bil.dong)	(%)	prices, bil.dong)	(%)	growth rates
Long An	Agriculture	389.7	68	501.2	66	6.5%
-	Industry	81.8	14	116.5	15	9.2%
	Sevice	97.7	17	136.9	18	8.8%
	Transport & post	15.9	3	19.8	3	5.6%
Oong Thap	Agriculture	494.8	78	695.1	76	8.9%
	Industry	53.8	9	71.6	8	7.4%
	Sevice	83.8	13	152.2	17	16.1%
	Transport & post	•	•	-	-	-
n Giang	Agriculture	533.0	61	760.3	59	9.3%
	Industry	101.2	12	167.9	13	13.5%
	Sevice	242.7	28	354.2	28	9.9%
	Transport & post	34.2	4	54.5	4	12.4%
ien Giang	Agriculture	571.0	76	893.0	65	11.8%
•	Industry	61.0	8	191.0	14	33.0%
	Sevice	119.0	16	298.0	22	25.8%
	Transport & post	•	•	=	-	-
Ben Tre	Agriculture	364.1	66	453.5	64	5.6%
	Industry	68.9	13	98.9	14	9.5%
	Sevice	115.8	21	160.5	23	8.5%
	Transport & post	9.2	2	12.4	2	7.9%
Vinh Long	Agriculture	374.3	73	481.9	69	6.5%
	Industry	46.9	9	76.2	11	12.9%
	Sevice	93.0	18	143.6	20	11.5%
	Transport & post	8.7	2	15.0	2	14.6%
Fra Vinh	Agriculture	215.1	66	333.0	66	11.5%
	Industry	32.4	10	59.1	12	16.2%
	Sevice	77.6	24	108.7	22	8.8%
	Transport & post	4,1	1	5.8	1	9.1%
Can Tho	Agriculture	440.1	62	578.9	55	7.19
→.	Industry	123.3	17	244.1	23	18.69
	Sevice	150.4	21	228.5	22	11.09
	Transport & post	37.8	5	57.3	5	11.09
Soc Trang	Agriculture	303.5	69	295.6	68	-0.79
	Industry	60.8	14	109.7	25	15.99
	Sevice	74.7	17	29.8	7	-20.59
	Transport & post	1.8	0	5.0	1	28.99
Kien Giang	Agriculture	471.0	56	682.0	50	9.79
	Industry	95.0	11	238.0	18	25.8
	Sevice	278.0	33	434.0	32	11.8
	Transport & post	9.0	1	30.0	2	35.1
Minh Hai	Agriculture	359.3	58	340.3	46	-1.3
	Industry	132.6	21	210.5	29	12.2
	Sevice	132.4	21	183.2	25	8,5
	Transport & post	13.1	2	21.9	3	13.7
Pul assi	Agriculture	4,515.9	66	6,014.7	61	7.4
Sub-total	-	857.7	13	1,583.4	16	16.6
	Industry Sevice	1,465.1	21	2,229.6	23	11.1
	Transport & post	133.8	2	221.7	2	13.5
	• •		6	262.2	4	4.8
Ho Chi Minh City	-	217.4	49	3,533.7	54	
	Industry	1,803.7	45	2,728.4	42	
	Sevice	1,661.3	10	581.4	9	
	Transport & post	358.2				
Viet Nam	Agriculture	12,264.0	39	14,892.0	34 28	
	Industry	7,228.0	23	12,113.0		
-	Sevice	11,794.0	38	16,792.0	38	
	Transport & post	792.0	3	1,066.0		7.

Source: Economy and Society 1991-1995, Statistics Department of Ho Chi Minh City, Sep. 1996

- Basic Socio-economic Indicators in Viet Nam

Table, Basic Socio-economic Indicators in Viet Nam

		1990	1991	1992	1993	1994	1995
Population	(1,000s pers.)	66,233	67,774	69,405	71,026	72,510	73,959
GDP growth rate (real)	(%)	5.1	6.0	8.6	8.1	8.8	9.5
Inflation rate	(%)	36.4	83.1	37.8	8.3	9.4	-
GDP (nominal)	(bil.dong)	41,955	78,707	110,535	136,571	170,258	222,840
Per capita GDP (nominal)	(dong/pers.)	633,448	1,131,806	1,592,604	1,922,723	2,348,062	3,012,980
Official exchange rate	(dong/US\$)	5,016	9,080	11,209	10,850	•	-
Gvt. expenditure (nominal)	(bil.dong)	9,186	12,081	23,711	37,010	44,655	54,462
Transport sector	(bil.dong)	569	762	1554	2561	-	-
Governmental income (nomi	(bil.dong)	6,153	10,353	21,023	30,500	42,125	53,295
(Financial deficit)/GDP	(%)	7.2%	2.2%	2.4%	4.8%	1.5%	0.5%
Debt/Service Ratio	(%)	15%	9%	15%	13%	7%	6%
ODA infow	(mil.US\$)	-	239	580	258	897	829
Loan	(mil.US\$)		184	516	64	765	679
Grant	(mil.US\$)	138	55	64	194	132	150
Import	(mil.US\$)	2,752	2,338	2,541	3,924	5,826	7,500
Export	(mil.US\$)	2,404	2,087	2,581	2,985	4,054	5,200
(Ordinary balance deficit)/Gl	(%)	0.6%	0.2%	0.0%	0.6%	0.7%	1.0%
Net capital inflow	(mil.US\$)	117	83	74	-289	757	2,309
Foreign investment	(mil.US\$)	120	220	260	300	1,048	1,780

Source: Statistical Yearbook, Cental Statistical Office, Vietnam and Key Indicators of Developing Asian and Pacific Countries, Asian Development Bank

2.3 Taxes in Viet Nam

Taxes in Viet Nam

I. Value Added Tax

1. Legal basis

Law on Value Added Tax, May 1997

2. Date of enforcement Jan., 1999

3. Brief description

- Value addded tax is the tax imposed on the added value of goods or services in the process of their production, circulation and consumption.

Goods and services used for production, business and consumption in Vietnam shall be subject to the

value added tax.

- An organization or an individual that produces and trades in taxable goods and services (commonly referred to as "business establishments") and any organizations and individuals that import taxable goods (commonly referred to as "importers") are liable to value added tax.

4. Tax rates

- For goods and services, taxable price shall be the selling price without value added tax. For import goods, taxable price shall be the import price at the border gate plus (+) import tax.

- Scientific and technical services	5%
- Engineering products	10%
- Oil, gas, coal, ore and other mineral products	10%
- Oll, gas, coal, ore and other finiteral products	10%
- Cement, bricks, tiles and other construction materials	10%
- Construction and installation	10.0
- Transportation and loading	10%

II. Export and Import duty

1. Legal basis

Decree No. 54/CP, Aug., 1993

2. Date of enforcement Sep., 1993

3. Brief description

- All kinds of goods permitted to be exported and imported through border crossing points of Vietnam shall be subject to eport and import duties.

- All organizations or individuals with goods for export or import shall pay export or import duties.

4. Duty rates

(ref. Table 1)

III. Enterprise Income Tax

1. Legal basis

Law on Enterprise Income Tax, May 1997

2. Date of enforcement Jan., 1999

3. Brief description

- Organizations and individuals involved in production and trading of goods and service provision (hereafter referred to as business establishment) with incomes therefrom shall all have to pay the enterprise income tax.

4. Tax rates

- Taxable incomes from production, business and service activities are the turnover minus the reasonable costs related to the taxable incomes.

- Turnover subject to the calculation of taxable incomes is the total sum earned from the sale of goods, remuneration from sub-contracts and the provision of services, including price subsidies.

- The enterprise income tax rate applicable to domestic business establishments and foreign organizations and individuals doing business in Vietnam not under the Law on Foreign Investment in

IV. Turnover Tax

1. Legal basics

Law on Turnover Tax, 30 Jun., 1990

2. Date of enforcement: 1 Sep., 1993

Vietnam shall be 32%.

Table 1 Import Tariff Relevant to the Project

Commodity Type	Code	Goods	Rate (%)
Materials	251600 (Granite bassalt, pophir, sand rock,for construction	2
	251700 (Cobble, pebble, crushed or milled for concrete, route constructing	2
	252310 I	Porland cement	5
	252321	White cement	10
	252330 /	Alum cement	10
	252390 (Other water solidfied cements	10
	27100010	Gasoline kinds	55
•	27100020 1	Diesel kinds	15
	32091010	Antirusting, acid-proof, heat-resistant, seawater resistant paints	10
•	32091090	Other paints and varnishes	25
	34031090 I	Lubricants	25
	680700 .	Asphalt or similar material	5
	681000 (Goods made by cement, concrete, reinforced or not	20
	721310	Constructing steel with diameter up to 100mm	30
	and the second second	Constructing steel with thickness up to 20mm	30
		Other construction steel	10
		Other rod forms of non-alloyed iron, steel	20
	and the second s	Figured non-alloyed iron, steel (L,U,I,H,T,)	5
		Figured small non-alloyed iron, steel (L,U,I)	30
		Wires of non-alloyed iron, steel not for soldering	5
	•	Bridge and bridge-span made by iron or steel	
		Tower and grid-column made by iron or steel	0
		Iron or steel wires	20
		Wire items made by stainless steel	1
		Bolts with diameter over 16 mm	20
		Nuts with diameter over 16 mm	20 20
		Rivets with diameter over 16 mm	20
Equipments		Bridge, bridge span, tower, grid column	1
Equipments		Concrete pump	0
		Motor rotating water pump up to 8000 cu.m/hour	25
	· · · · · · · · · · · · · · · · · · ·	Motor rotating water pump over 8000 cu.m/hour	20
		Water pump having rate up to 3000 cu.m/h	30
		Water pump having rate over 3000 cu.m/h	0
	and the second of the second	Jack, pulley, windlass crane powered by electric motor	0
		Cranes (gantry crane, tower crane,)	0
		Other loading and unloading equiments for underground use	0
e jaron en	in the control of the control of the	Conveyor	0
		Road making equipments and vehicles (bulldozer, excavator,)	<u> </u>
	and the second second	Tool-machines for metal working for bending, cutting,	C
		Other tool-machines for metal working	(
1. Pro- 1. 1. 188		Tool-machines for working rock, stones, concrete, cement,	C
		Machineries used to milling, mixing stone, cement,	
		Generator sets not over than 75 KVA rating	1.5
	100	Generator sets over 75 KVA but not over 375 KVA	10
	8515	Soldering, welding equipments using electric power	(A. 1. 1. C

Source: The Decree No.54/CP(Aug.,1993), No.1138/TC/TCT(Nov., 1994), No.615A TC/TCT/QD(Jun.,1995)
No. 1188 TC/QD/TCT(Nov.,1995), No. 1233/TC/TCT/QD(Dec., 1995), No. 443 TC/QD/TCT(May,1996)
No. 542 TC/QD/TCT(Jun., 1996), 861A TC/QD/TCT(Sep., 1996)

3. Brief description

- Business organizations and individuals of all branches and trading and all economic sectors, irrespective of their business forms, which with or without business establishment in Vietnam, have their turnover generated in Victnam shall be subject to the turnover tax.

- Activities of maintaining roads, dredging canals, wharves, bridges, dikes and passages are

temporarily exempt from turnover tax.

4 Tax rates

1) Manufacturing construction materials 4% of tax rate shall apply.

- Concrete grout includes sorts of grout of structure cement and asphalt etc used to construct factories, roads and bridges etc or to produce precast structural concrete.

2) Local passenger transportation by bus is 1% of tax rate applied for transport in local road routes to

border.

Table Turnover Tax Rates

Branches	Rates (%)
I) Manufacturing branch:	
- Production of building materials	4
II) Construction branch	
- Installation, survey, design and other ones referring to construction	4
III) Transport branch:	
- Transporting goods	2
*Particularly, priminary means in mountain and island region	0.5
*Particularly, priminary means in mountain and island region - Transporting local passengers by bus	1
IV) Trading branch:	* 4 <u>-</u>
- Production materials and raw materials	1
- Other transport means: ships, canoe, car, standard bus, crane (not	1
including bicycles, motorcycles, car with 24 seats and over.	
- Machinery and equipment used as means of production	1
V) Subcontracting activities	- 6

V. Excise Taxes

1. Legal basis

Law on Excise Tax, 1951

2. Date of enforcement

1, Oct., 1990

3. Brief description - Local business lines involved in exported and imported goods such as, naphtha, petrol tobacco,

alcoholic drinks, and cars with 24 seats shall be subject to the excise tax.

- Individual business and production households, government officials, public employees, cooperative members and laborers in non-state enterprises as well as business units which are joint-stock companies, limited liability companies cooperatives, production units all shall pay their excise tax at the fixed the fixed rate of 850,00 VND a year.

- The business establishments, branches, stoles and shops which are dependent accounting or daily financial reporting units and cooperatives and production groups shall pay each an excise tax of

550,000 VND a year.

4. Tax rates Commodity type	Code	Goods	Rates (%)
Imported cars (including SKD)		- Cars with 5 seats and under - Cars with 6-15 seats	100 60
		- Cars with 16-4 seats and other cars for both people and goods,	3 0
Types of petrol. naphtha,	27100010	microbus Types of petrol	
other finished products for making up petrol	27100060	Naphtha, Reformate	

-Excise tax is higher than other types of taxes because of regulating turnover, instructing consumer, protecting domesic goods.

- If some business establishments pay excise tax they shall not pay turnover tax.

VI. Natural Resource Tax

1. Legal basics

Law on Natural Resource Tax, 28, Dec., 1989

2. Date of enforcement

1, Jan, 1991

- Natural resource belonging to sovereignty of socialist republic of Vietnam shall be subject to the Natural resource tax.
- Organizations and individuals involved in economic sectors as well as companies with foreign invested capital or foreign business cooperation based on contract and with exploitation of natural resource are liable to pay Natural Resource tax.

4. Tax rates

Name of resource	Rates (%)
- Metal mineral product	3
- High-quality construction materials	3
- Popular construction materials (Stone, sand, grave, soil etc)	. 2
- Precious stone (alexandrit, black opan, and andradit, berin etc.)	12

VII. Income Tax on high income earner

1. Legal basis

Law on Income Tax on high income earner, Dec., 1990

2. Date of enforcement:

18, Feb. 1997. 3. Brief description

- Vietnamese citizens in the country and other individuals having settled in Vietnam at high income level are liable to pay private income tax.

- Forms of private incomes subject to incomes taxes.

- Salary, bonus and other incomes from business Regular incomes: organizations.
- Incomes in the form of presents and gifts in kind sent by organizations and individuals abroad to individual in Irregular incomes: b.

Vietnam in all forms.

Incomes from construction technical designs, industrial

technical designs and other services.

4. Tax rates		
a. For Vietnamese cit	izens in the country and other individuals being settle	ed in Viet Nam.
Level	Monthly average incomes/person	Rates (%)
1	2 million VND	0
2	over 2-3 million VND	10
3	over 3-4 million VND	2 0
4	over 4-6 million VND	30
5	over 6-8 million VND	40
6	over 8-10 million VND	5 0
7.	over 10 million VND	60
 b. For foreigners being 	ig settled in Viet Nam and Vietnamese Citizens do b	usiness abroad
Level	Monthly average incomes/person	Rates (%)
1	5 million VND	0
2	over 5-12 million VND	10
3	over 12-30 million VND	20
4	over 30-50 million VND	3 0
5	over 50-70 million VND	40
6	over 70 million VND	5 0

VIII. Profit Tax

1. Legal basis

Law on Profit Tax, Oct., 1990

2. Date of enforcement 28, Aug., 1993

Brief description

- Business establishments (except for small-scale business households, households engaged in a lot trading) shall pay profit tax at the fixed rates on the taxable profit earned in the whole year.

4. Tax rates

4. Tax Taxes	
- Production of building materials	25%
- Transport	2 <i>5%</i>
- Construction including survey and designing activities	25%
- Construction of infrastructure for lease industrial zones,	25%
export processing zones, and hi-tech zones	
- Trading sectors, restaurants and service:	45%
For small-scale business households (or called retail businesses), the	tax rates shall apply as follows:
- Production, construction and transportation	1%
- Trading sectors, restaurants and service	2%
For wholesale business the tax rates of 3% per the existing selling pri	ce shall be applied.
For huginess establishments the tay rates shall now profit tay at the fix	

IX. Others:

- * Enterprise income tax will take effects on January 1st, 1999. It will replace profit tax.
- * Value added tax (VAT) will take effects on January 1st, 1999. It will replace turnover tax.
- * Ferry station and bridge operation station are non-profitable organization. Total of input will subtract total of output; and then, total of the rest will put into state budget without paying tax.

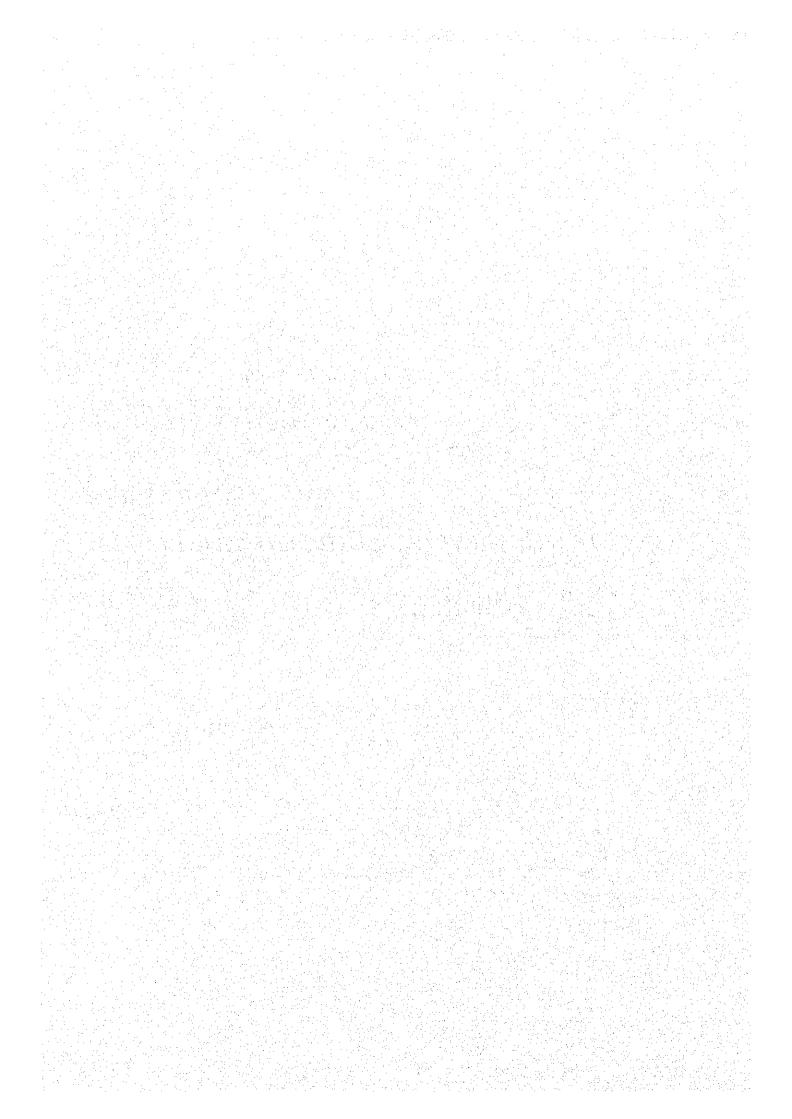


The Feasibility Study on The Can Tho Bridge Construction in Socialist Republic of Viet Nam

ANNEXURE 3

TRAFFIC SURVEY AND FUTURE TRAFFIC DEMAND

3.1 -	Data of Traffic Count Results, September 1997	13-7
3.2	Origin-Destination Matrix of Motorcycle Trips, AADT, Year 1997	3-7.3
3.3	Traffic Assignment Results for the Hau Ginno Crossing near Can Tho.	3_21



3.1 Data of Traffic Count Results, September 1997

Summary of 24-Hour Road-Based Traffic Count Results, Can Tho Ferry, Northbound, September 1997 (Without Seasonal Adjustment Factor)

						Time of Day	Day.					
					00.50	06.00 06.00	08:00:02:00	07:00-08:00	00:60-00:60	00:01-00:60	10:00-11:00	11:00-12:00
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Ricycle-with-Trailer/Cyclo	•	•	•			• •	٠,	•	Ş	4. 4.	137	138
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Summary of 24-Hour Road-Based Traffic Count Results, Can Tho Ferry, Southbound, September 1997 (Without Seasonal Adjustment Factor)

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Summary of 24-Hour Road-Based Traffic Count Results, Vam Cong Ferry, Northbound, September 1997 (Without Seasonal Adjustment Factor)

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Note: MV = motorized vehicle; MC = motorcycle.	motorcycle.											

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1 Vehicles 95 95 1	2 2	2 5			19 51	28	8	4.	000
Total No of MVs not incl. MCs 17 25 25	7	1							

Summary of 24-Hour Road-Based Traffic Count Results, Vam Cong Ferry, Southbound, September 1997 (Without Seasonal Adjustment Factor)

					00 00 00	00:30	00:00 02:00	07-00-08-00	08-00-09-00	09:00-10:00	10:00-11:00	11:00-12:00
Vehicle Type	24:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	05:00-06:00	00.00 00.00	20,00-00,10	30.00	20.00	100	Y 30
Dedectorship	418	2	æ	46	83	133	318	523	279	292	83	Ş
	2	ς τ	}	•	α	5	8	20	6	24	23	25
Bicycle		7						•	•	•	-	-
Bicycle-with-Traiter/Cyclo	e .	-	-	_	4	b !	' :	- ;	ş	35	ā	7.
Motorcycle	7	ч Э	4	N	o	<u>₹</u>	8	Ξ.	2	9	8	2
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Microbus	• •	• •		•	. u	•	(r	4	5	5	4	φ
Minibus/Van	'n	-		v	7		, (•	-	•	-	m
Standard Bus	• !	' '	' '	, 4	• •	ď	, «	· uc	œ	so.	4S	4
Fruck with 2 extes	\$5	13	2	č	0	o	> 0			. 1	•	•
Truck with 3 exies	•	-	•		•	•	7	-	•	•	i .	•
Police or Military Vehicle	•	٠	•	Ī	•	•		-	-	-		
1000	35	8	97	70	124	188	432	360	388	404	358	154
Total No. of Modeline	8	7.0	77	2	86	53	421	107	60	115	118	117
Total Man of Managed Machiner	3	77	8	5	27	33	£	88	8	8	8 8	8
Total No. of MVs not incl. MCs	8 83		8	17	18	17	15	15	16	4	16	\$
Note: MV = motorized vehicle; MC = motorcycle,	= motorcycle,						i					
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						Time of Day	Oav					
Vehicle Tone	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Parletinos/Mandrast	350	307	296	348	297	288	283	131	282	885	193	102
Bicycle	8	11	8	8	ક	7.	. 21	n	•	•	¥0	•
Bicycle-with-Trailer/Cyclo	•	•		•		•	- ;	• •		٠,	٠ ٥	
Motorcycle	23	92	25	2	62	8	R '	-	•	יי	n •	•
Motorcycle-with-Trailer	•	-	•	•	-	-	m ·				j v	٠, ٠
Service Contract Cont		•	4	u					•			

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Johnson Tone	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00	
Grant Sport	350	307	296	348	297	288	283	131	282	85	193	102	
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Bicycle	5 7	1	₹.	Ş	5	.	= '						
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Motorcycle	?	2	õ	\$,	•			•	٠			
Motorcycle-with-Trailer	•		•	•	-	-	3		•			c	
Passenger Car/Sedan		4	9	ဖ	4	9	-	4	D		-	•	
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MICHOUS		- u	4	a	α.	uc.		45	5	m	9	2	
Minibus/Van	n		•	, c	•	· -		*-	m	•	•	-	
Standard Bus	.		- 1	7	- 1	- 4	, ;		. 2	\$	7	œ	
Truck with 2 extes	e	4	۴-	מט	70	20	4	0	•	1		•	
Truck with 3 axles		•	•	•	•	•	•	٠	•	•	•	•	
Define or Militan Makinla			•		•	•	•	•	-	•	•	•	1
Once of williamy vertices	7467	410	708	461	413	399	353	167	317	- PS	228	113	
	\$	112	3	4	116	111	02	8	æ	23	35	£	
Otal No. of Vernoies	<u>*</u>	± 3	3 8	8	a	. Ze	25	g	8	23	8	-	
Total No. of Motorized Vehicles	4	ī ⊱	: R	: :		81	19	16	28	20	20	11	

Summary of 24-Hour Road-Based Traffic Count Results, An Hoa Ferry, Northbound, September 1997 (Without Seasonal Adjustment Factor)

24,00,01;00 01;00,02;00 03,00,04;00 04;00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00,05;00 05,00<	Table Tabl								30 20 00	02:00 00:00	OD-OUT-OUT-OUT	9000	30.00	3.4
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1	Visiden 2	Motorcycle	6 0	7	4	2	•	2	3 '	2	•	-	•	-
	/Section 2 2 2 2 2 2 3 2 2 3 2 2 3 5 2 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Motorcycle-with-Trailer			•	•		י ר			0	7		8
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tes 1 1 1 2 2 2 2 2 2 2 2 4 2 5 5 6 6 9 9 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	titles 1 1 1 2 2 2 2 2 2 2 4 2 5 5 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Microbus	•	•	•	•			e	64	2	m	2	4
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2 12 22 23 227 275 14 7 19 15 30 76 87 140 146 133 174 14 7 19 13 17 26 63 99 96 89 107 6 5 4 3 11 7 7 7 7 10 9 10	22 12 22 21 46 130 128 222 234 227 275 275 22 23 174 140 146 133 174 141 14 7 18 13 17 26 63 99 95 96 99 107 107 107 107 107 107 107 107 107 107	Truck with 3 axles	•	•	1 .	•		•			•	•	•	-
22 72 12 24 15 30 76 87 140 146 133 174 25 140 140 145 133 174 25 140 140 140 174 174 174 175 175 175 175 175 175 175 175 175 175	22 12 12 24 15 30 76 87 140 146 133 174 23 174 140 145 140 145 174 174 175 175 175 175 175 175 175 175 175 175	Police or Military Vehicle	,	,	, 6	,	46	130	128	222	23	722	275	316
14 7 18 13 17 26 63 99 96 99 107 10 14 7 18 13 17 2 6 5 99 95 99 107 10 6 5 4 3 11 7 7 7 7 10 9 10	14 7 19 19 7 26 63 99 96 89 107 10 10 107 10 10 107 10 107 10 107 107	Total	23	72	3 :	7 4	? 8	K	. 87	140	146	₹ E	174	230
14 7 18 13 11 20 7 7 7 10 9 10 6 5 4 3 11 7 7 7 7 10 9 10	14 7 18 13 11 20 7 7 7 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	Total No. of Vehicles	4		2	2 5	\$ \$	9	2	8	88	66	107	<u>5</u>
Total No. of Mars not incl. MCs. 6 5 4 3 13	Total No. of Mys not incl. MCs. 6 5 4 3 13 1. Modes. M. A. moderacie.	Total No. of Motorized Vehicles	4	7	8	2	= ;	7 5			5	6	9	6
	Mode. I.M. = more real while M.C. = modernovie.	Total No. of MVs not incl. MCs.	ф	S	4	ro l	-							

Vehicle Type													
Vehicle Type		00.44.00	44.00 45.00	15.00.18.00	18:00:17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	ZZ:00:1Z	22.02-23.02	20.00	, 20,
	1200-13:00	3.00-14.00	3.5		8	40	5	23	88	ୟ	ß	7.	
Pedestrian/Hendcart	2	86	88	3	3	2 5	5 8	3	45	27	2	•	
46.00	87	72	45	62	97	707	5	\$!	i '	•		
District	•		•	•	2		•	•	•		!	•	
Bicycle-with-Trailer/Cyclo	7	- ;	- ;	. 6	g.	103	88	4	8	፠		3	
Motorcycle	5	86	33	3	3	3	}		٠	•			
to a man the resident	•	•	•		-	**	•				4	•	
Motorcycle-with-Trainer		•	•	•	-		•	-	•	•	•	-	
Passenger Car/Sedan	_	7	-	-				•		•			
Microbus	•		•	•	•		•		•	2	•	•	
	,	es	e	e	-	-	•	•	-	1 6		er.	
MINDUSIVED	•	٠ ۥ	•	•	•	•	•	•	•	ח	3)	
Standard Bus	7	7	1	-	•	•	•			-	•		
To come of the contract of the	•	~ 1	C4		-	-	-		•		•	•	
ILUCA WRITE BARB					•	•		•	-	•			
Truck with 3 axles		•					•	•		•			
Police or Military Vehicle			•				7,00	Ş	136	88	75	55	
Total	251	252	238	267	321	1 87	8 8	Ş ¥	6	(3	S	43	
Total May of Vehicles	167	162	153	177	231	012	7	5 5	; ù	4	84	54	
FOLGE 1965, OF POPULATIONS	107	107	107	114	142	80	8	3	χ ·	2 4	v		
Stell No. of Motor 28d ventures	: '	•	•		ď	4	4	,-	7	٥	,	,	
Total No. of MVs not incl. MCs	ம	D.	٥	,	,								

Summary of 24-Hour Road-Based Traffic Count Results, An Hoa Ferry, Southbound, September 1997 (Without Seasonal Adjustment Factor)

						Time of Day	Day					
Vehicle Type	24:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	02:00-06:00	06:00-07:00	02:00-00:20	08:00-03:00	09:00-10:00	10:00-11:00	11:00-12:00
Dodeskipo/Handrat	4	6	2	9	98	125	121	134	125	102	6.2	88
Division of the control of the contr	r	, '	۱ -	eri	12	102	7	65	88	8	8	8 6
District Tentonic				, ,	•	•	7	4	•	84	7	-
Datyce-witt-Tiener Cycle Materials		•	•	-	-	41	128	901	102	88	88	88
Metabolic and Textor		•	•		•	-	**	8	•	-	•	
Modernoon Car/Sedan	•		•		•	7	7	2	2	m	8	-
Paralle Carron	,	•	•	•			•		•		•	•
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Minibulsiva	•	•						•	•	-	n	ო
Standard ibus	•	•	•		, (2	2	•	-
LCCK WITH Z SIXIES	•	-	•	•	•	•	•	•	i.			•
Truck with 3 axies		•	•	•	•				•	•	•	
Police or Military Vehicle	•	•	•	•	•	•	•		•			•
Total	o	9	3	13	ક્ષ	251	424	314	272	245	211	230
Total No of Vahioles	i ir	•	-		17	126	303	180	147	143	132	2 5
Total No of Motorized Vehicles				•	5	8	137	117	108	501	35	8
Total No. of MVs not incl. MCs			•	2	4	8	8	7	9	89	6	7
Note: MV = motorized vehicle; MC = motorcycle.	= motorcycle.										٠	

9	12:05-13:00 1 60 62 1	13:00-14:00 69 49 105	14:00-15:00		16:00:17:00	42.00 40.00	,			00 00 00	00 00 00	50.00	F
Ş		69 49 105	25	15:00-16:00		30-30	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00:23:00	23:00-24:00	1019
Brocke with Trailer/Cyclo Motorcycle Motorcycle	122 - 83 . 4	6 . 35	2	23	\$	4	88	18	2		2		1,260
Bicycle-with-Trailer/Cyclo Motorcycle	1-8,	. 50	88	25	37	45	58	60	n	-	2		923
Motorcycle	8	. 55 .	•	•	-	-	~	•	1	•			19
motoroge	}	3	6	8	73	22	8	52	23	40	7		1,286
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•		•	•		•	-		•	•	•		15
MOTORCycle-with-Urailer	•	- •		- •	•	- (•				•	\$
Passenger Car/Sedan	N	m	7	7	4	. 0	9	7	_	•	•		3
Microbus			•	•	•		•	•					•
Michigan	c	•	69	2	2	7	-	60	4	•	-	•	ę
Connection Co.	ıv				m	2	•	•	m	7	•	-	37
	,		r				•			,	•	•	8
Truck with 2 axies	Z	_	7	7	7	7	*	7	•	a	•	•	}
Truck with 3 axles		•		•	•	•	•	•	1	•	•	•	
Police or Military Vehicle	· ·	-		•	•	•	•	•			•	-	-
Total	224	233	231	35	169	169	222	62	39	=	æ	4	3,657
Total No. of Vehicles	76	<u>7</u>	161	141	123	128	157	2	37	-	φ.	4	2,397
Total No. of Motorized Vehicles	5	115	፯	8	88	8	8	8	¥	0	4	4	1,455
Total No. of MVs not incl. MCs	F	6	F	80	F	σ	g	10	11	4		4	1 5

Summary of 24-Hour Road-Based Traffic Count Results, Chau Doc Ferry, Northbound, September 1997 (Without Seasonal Adjustment Factor)

								2000				
ndead	24-00-04-00	01-00-00-00	02:00-03:00	03:00-04:00	04:00-05:00	00:90-00:90	06:00-07:00	02:00-00:20	USCOHOSCO	03.00-10.00	443	128
Declaration (Handran	20.00		0	4	16	52	ස	5	8	'n	2 1	; ;
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Bicycle	m :		•	- -	,	•	-		m		·	7
Bicycle-with-Trailer/Cyclo	•		• •			ţ	2	8	4	42	42	94
Motorcycle	ب ب	-	m ·	a		<u>.</u>	l '	•	•	•	•	₹-
Motorcycle-with-Trailer	•		_	•		•	•	•	-	-	-	,
Passenger Car/Sedan	•	•	•	•	•		•	1	•	i	•	,
Microbus	•	•	•		•			-	•	-	•	
Minbus/Van	4	1		•	•		•	•		•	-	1-
Standard Bus	•	•		•	•			•	•	•	•	-
Truck with 2 axles	<u>.</u>	-	•	•	•		•		•	•	•	,
Truck with 3 axles	ì	•	•		•	• .•		,	•	·	•	•
Police or Military Vehicle				.		24	8	8	127	158	181	216
Total	18	un .	φ.	Ξ,	6 5	, g	. 4	45	62	. 67	88	88
Total No. of Vehicles	თ		_	ο •	<u> </u>	3 7	76	6	4	4	54	49
Total No. of Motorized Vehicles	φ	7	4	4	0	<u>.</u> •	, ,	•		2	ო	2
Total No. of MVs not incl. MCs	-	-		'		-	,					

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		20	44,004,000	45.00.45.00	18:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00:24:00	
/ehicle Type	12:00-13:00	13:05-14:00 14:00	14,00-13,00	8.6.	20.00		1,4	144	42	8	m	,	
	65	73	91	8	128	<u> </u>	•	<u>.</u>	! (٠	,	^	
Pedestrantriandour	3	!	:	۶	7	. 27	47	8	ā	0	7	2 1	
Bicycle		3	3	3	•		•	-	•		•	2	
One of the Topical Control	. 2	•	2	•-	-	7	4 !		ď	4	LC:	ω	
	y.	45	88	37	54	ঠ	54	Ş	07	•	•		
Motorcycle	}	2	•		,	m	•	•	•		•	•	
Motorcycle-with-Trailer		•	•	. ,	1 -	1	•	,	•	•	٠	ů.	
Passanoar Car/Sedan	_	•-	-	-	_	•		•	•	•		•	
Mary Na	•	•	,		•	•	•	•		•	•	1	
		•	•	•	-	•	i						
Minibus/Van	•	-				•	•	ı	-		,		
Standard Bus	-	•		•		-		1	•	٠	•	•	
To set that I seeke			-		-	•	•				•		
AN WILL & GALLOS			•	•	•	•	,		•	ı			
Truck with 3 axies		•				1	•	•	•			•	
Police or Military Vehicle		• :	•	,			001	200	æ	8	ç	9	
Total Control	137	141	143	152	210	747	8 :	ţ 8	3 4	. 5	7	10	
ē,	2	5	63	8	83	103	35	3	¥ i	ţ (. 1	. 4	
Total No. of Vehicles	4	} :	1	ę	æ	65	4	52	8	ب	n	•	
Total No. of Motorized Vehicles	67	4	₹ .	3	3 °	,			-		1	•	
Table of 1874 and inch the	er.		7	-	9	7							

Summary of 24-Hour Road-Based Traffic Count Results, Chau Doc Ferry, Northbound, September 1997 (Without Seasonal Adjustment Factor)

						Time of Day	Day					0, 00
				00.00	00.50	06:00.08:00	00:00-02:00	00:00:00	00:60-00:80	09:00-10:00	10:00-11:00	11:00-12:00
Vehicle Type	24:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	3	4	183	7.	985	38	51	101
	o	P	1	12	ø	2	3	-	3	. •	ě	9
Pedestrian/Handcart	0			-	7	6	5	37	2	11	77	'n
Bicycle	7	•	•				•	•		•	•••	•
D'annels Mr Teatherfo sele	•		i	-	-	7	-	- ;		90	ą,	99
BOOKS HELLER HER CONST.					4	8	83	29	त	8	2	}
Motorcycle	1	7	•	•	•	•	•	•	•	•	•	•
Motorcycle-with-Trailer	•	•	•	-	-		•				-	•
Passander CarlSadan		•	•		•	•	-	-		•	•	•
	•		•	•	•	•		•			•	
Microbus				•	•	-	•	-	4	•	-	•
Minibus/Van	•	•	•			-			•	•	•	•
Standard Bus	•	•	•	•			•	. '		-		•
Truck with 2 axtes	•	•	•	•		•			•	•		•
A Thirty of the same	. •			•	•	1	•	•			•	
TICK WILL S GARS			•	•	.•	•		1		.		
Police or Military Vehicle	•			34	36	133	350	170	157	85	121	<u>8</u>
Total	\$	F	•	2 (2 9	8 8	167	8	72	3	2	8
Total No. of Vehicles	7	~		מי	2 '	8 8		3 2	S	8	4	4
Total No. of Motorized Vehicles		2		-	s	3	3	5 5	} '	-	2	•
Total No. of MVs not incl. MCs		1	,	•		7	-	,				
Note: MV = motorized vehicle; MC = motorcycle	= motorcycle.			l					:			
-						Time of Day	Day					
	00:00	49:00:14:00	44:00-15:00	15:00-16:00	15:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
Vehicle Type	Z.O13:00	20.5	200	4	8	¢.	4	27	19	\$	æ	=
Pedestrian/Handcart	162	8 8	X \$	8 8	3 %	8	***	16	(C)	€	9	•
Bicycle	52	'n	₽ .	3 1	3	} '				•	•	•
Bicycle-with-Trailer/Cyclo			T \$	- *	' 5°	. 4	83	4	51	7	4	•
Motorcycle	4	5	-	•	3	· •	i •	•	•	•	,	•
	•		•	_								

						Time of Day	Day					00,00	
	42:00:43:00	13:00:14:00	14:00-15:00	15:00-16:00	15:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	73:00:57	ļ
Vehicle Type	(4.00-13.00)	200		ak ak	65	6	4	27	£	9	ю	Ξ	
Pedestrian/Handcart	162	8	.	₽.	3 :	1	7	ā	ď	<u>e</u>	9	•	
49	52	37	9	ន	88	35	\$	2	>	!		•	
Dicycle	,				•	•		-	•			•	
Bicycle-with-Trailer/Cyclo	-	• •	•			47	23	14	53	<u>*</u>	4	-	
Motorcycle	4	4	[\$	8	•	i '	•	•	•	,	•	
Motorcycle-with-Trailer	-	•	•		. ,	- •	•	+	•		٠		
Passenger CarlSedan	•	-		•	-	-	-	- '	•	•	,	•	
Microbus	•	•	•	•						•	•	1	
Minibus/Van	-	- ,	-	•	•	-		1	•	•	-	•	
Standard Bus		•		,	•	•	٠,		•	*	,	•	
Truck with 2 axles		•		•	•	•	•	- '	•	•	•	•	
Truck with 3 axies	•		•			•	•		•	•	•	•	
Police or Military Vehicle			•	•	,	,		9	A6.	33	62	55	
Total	192	167	4	127	138	Z :	2 2	8 8	3 6	. 5	=	7	
Total No. of Vehicles	88	8	8	8	7.	23 :	2 8	3 6	÷ 8	ţţ	LC.	7	
Total No. of Motorized Vehicles	97	₹	₽	47	æ	8 '	5 °	<u>.</u>	4 -) -		-	
Total No. of MVs not incl. MCs	2	2		2	+	2	7	7					١

Summary of 24-Hour Road-Based Traffic Count Results, National Route 1, Northbound, September 1997 (Without Seasonal Adjustment Factor)

				00.00.00	04:00-05:00	02:00-06:00	00:20-00:90	02:00-08:00	08:00-08:00	09:00-10:00	30:05	3.5	
	00 10 00	00.00		1									
Vehicle Type	24:000:00	01.00-02.00	05.000.00			4	94	21	12	æ	on.	F	
Pedestrian/Handcart		m		•	ç	9	753	250	158	116	121	3 9	
Bicycle	•	•	•	-	7	2	3	-		•	•	•	
Bicycle-with-Trailer/Cyclo	1				•	. 8	, Č	733	413	371	38	325	
Motorcycle	4	ரை	, '	9	₹	3 8 !) CF	455	146	105	90	35	
Andrew of the Trailer	47	80	σ·	o.	28	4	3	3	2 :	;	*	ť.	
Cycle-water It alway	. 4		er.	-	-	ო	13	E	9	<u> </u>	* ;	5 5	
Passenger Car/Sedan	ο,	٠.			e	45	ŧ	ୡ	8	17	7	21	
Microbus	_		N 1	4 (•		£		5	ଷ	£	12	
Minibus/Van	₹ 5	60		7	•			÷	. 41	17	. 11	ŧ	
Standard Bus	т	•	m	-	n	4	2 .	2 0	. •	ć.	5	4	
		œ	9	9	9	t	n	D)	3	· •	•	·	
FUCK WITH 2 BARBS				٠	•		*	_	•.	_	-	4	
Fruck with 3 axies	•	•						-	•	2	-	-	
Police or Military Vehicle	2		•			900	1 134	700	901	202	680	695	
Total	25	₽	32	8 7 1	<u>.</u>	8 8	38.	6	582	707	671	88	
Total No. of Vehicles	25	37	33	138	<u>5</u>	, ,	8	3	100	787	920	\$	
Vis. of Materials Vehicles	2	33	31	27	28	175	8	3	3	3 8	3	14	
Total No. of Información Vericies	3 8	. 8	23	12	8	8	9 8	29	72	88	2	5	
Note: MV = motorized vehicle; MU = motorcycle.	= motorcycle.	-											
			·			Time of Day	rec.						24-Hour
				00000000	40:00 47:00	17:00:48:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00	
Vehicle Type	12:00-13:00	13:00-14:00	14:00-15:00	0.01-00.61	10.00-17.00	20.00	9	15	13	2	•	2	
Pedestrian/Handcart	21	6 0	4	n	= }		100	251	82	4	-	•	
Bicycle	<u>¥</u>	5	147	<u>4</u>	739	3	3	<u>}</u>	•	•	,	•	÷
Richards-Trailer/Cyclo		•	•	•	•	•	•	. 6		5	45	52	
	330	328	370	\$	925	455	98	797	70	<u>.</u>	? \$	4	
Motorcycie	40	ð	3	112	8	85	69	67	ន	32	2	0 1	
Motorcycle-with-Trailer	ep.	ñá	ξ \$	įţ	4	13	9	Ę	4	თ	7	1	
Passenger CarlSedan	. 11	₹ '	<u>.</u>	= ;	2 4	ę	÷	4	-	•	•	•	
Microbus	-	ac .	2	= 3	2 2	? •	ď	£.	4	თ	32	5	
Minibus/Van	თ	4	18	17 '		, ,	· (*	e en	m	2	63	-	
Standard Bus	2	_	œ	\$	2 :	- 6	, ;	, ,	40	8	16	15	
ruck with 2 extes	4-	<u>₽</u>	₽	50	R '	3	2 4	i '	i '	•	+	,	
Parch with 3 paies	v)	4	. 5	ო	~	•	•	٠,			•	•	
Dodge or Milkon Vehicle		•	-	•	-	-	•			,	70	52	
Company of the second of the s	718	635	969	746	<u>8</u>	842	82	927	897 7	717	ô	3 4	
	703	627	890	741	936	88	58	839	276	215	ğ	8 8	
Total No. of Vehicles	(60	3 1	242	95	902	61	96	388	22	174	8	\$	
Total No. of Motorized Vehicles	200	7	} ;					ď	98	in a	8	ន	
			5	2	£	8	7	,		;			١

Summary of 24-Hour Road-Based Traffic Count Results, National Route 1, Southbound, September 1997 (Without Seasonal Adjustment Factor)

						Time of Day	Day					00 07	
			00.00	00.00.04.00	04:00:05:00	05:00:06:00	06:00-07:00	00:80-00:20	08:00-03:00	09:00-10:00	10:00-11:00	W.7.W.1.	
Vehicle Type	24:00-01:00	01:00-02:00	02:00-03:00	09:00-04:00	Poisson.	2000	62	23	19	17	\$	ដ	
Pedesirian/Handcart	1	•			• ;		5 5	<u>ک</u> ا ا	202	<u>\$</u>	202	326	
Birvila		•		4	9	8	3		· •		٠		
District with Tenilor Confe	•		•	•	•	•		• •	į	•	413	365	
Cycle-Will - It died Cycle	Ş	,	•	13	44	₽	324	489	S.	<u>.</u>		***	
Motorcycle	2 :		· tu	a	2,5	69	114	<u>4</u>	157	141	/ZL	<u> </u>	
Motorcycle-with-Trailer	-	η.			3 °	=	14	15	81	13	17	5	-
Passenger Car/Sedan	4	5	•	_	7	2 ;	<u> </u>	. 2	24	20	21		
Si spessor	•	•	•	•	-	= '	2 ;	3 9	ģ	ąt.	4	16	
	•	2	m		2		-	2	2	? ;		9	
Minibus/Van		. •	•		67	9	o	₽	:	£	2	<u>0</u>	
Standard Bus	•	•	• ;	יי	٠ ﴿	ç	œ	13	52	8	24	t	
Truck with 2 axies	17	9	9	Δ	٥	2 1	•		•	7	•	7	
Touch with 3 syles		-	•	•	•	-	•	-		- 1	•	•	
CCN WINE CHANGE			•	•		•	•	•	. !			000	
Police or Military Vehicle				gc	aO.	269	90/	28	965	988	928	676	
Total	S	21	8	8 8	3 5	96	882	918	946	848	2	916	
Total No. of Vehicles	S	23	23	3	en:	607	90	: F	744	38	88 48	98	
Total No. of Matamated Mahicles	36	27	20	8	35	8PZ	6	= ;		2	ď	æ	
OIBI NO. OF MODULIZED VEHICLES	3 8	3	13	5	52	1	22	78	35	8	B	3	
O(B) NO. OT MVS NOT RXL. MXS	1												
Note: MV # motorized venicle; MC = motoricycle	= motorcycle.												
						Time of Day	CDay						Z4-H0/4
					00.00	A7.00 40.00	10.00 10.00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00	Total
Vehicle Type	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	W: 71-30.9L	20.00	20.01.00	-	18	*			265
Dedection/Mandent	9	60	÷	9	₹3	2	3 ;	- 8	2	QV	4	•	3,363
	148	901	146	179	267	263	252	8	Ξ.	?	, •	•	
2						•			•	•	' i	ď	Ş
Bicycle-with-Trailer/Cyclo	•		375	305	526	511	\$	520	82	169	72	no ;	657'0
Motorcycle	Đ.	3			433	118	82	53	æ	5 7	8	54	1.806
Motoccycle-with-Trailer	Ξ	3	3	<u> </u>	3 4	, T	α	7	9	6 0	•	•	232
Passenger Car/Sedan	5	£	₹.	7	2 :	2 9				•		•	237
Microbus	15	15	. 18	15	₽ :	2 8	ro	, ÷	4		12	_	293
MinimaNan	4	92	4	23	19	77		1	<u>.</u>			•	176
Chandard Bus	15	17	1 3	Ξ	თ	on .		- ;	- 6	1 \$	· ec	=	388
and the state of t	17	5	€	2	\$. 50	R	2	S		•	·	g
I LUCK WILL & BANGS				2	-		-	•	4	•	•	•	}
Truck with 3 axies						,	•	•	•		-		
Police or Military Vehicle	,	,	.	004	4 035	906	873	414	435	274	126	35	13,088
Total	648	632	(23	8 1	3 8	720 4	. 52	407	419	274	\$	ቖ	12,823
Total No. of Vehicles	642	624	408	0,	90.	+ (7')		11	308	225	121	35	9,460
Total No. of Motorized Vehicles	\$	516	285	591	95	- 6	3		£.	33	23	ĸ	1,355
The last the sales of the sales of the sales	79	86	28	92	36	70	p	*	22				

Summary of 24-Hour Road-Based Traffic Count Results, National Route 91, Northbound, September 1997 (Without Seasonal Adjustment Factor)

						Time of Day	Day				00.44.000	14.00.12.00
	00,00	00.00.00	00-00-00	03:00-04:00	04:00-05:00	06:00-06:00	06:00-07:00	07:00-08:00	00:60-00:80	08:00-10:00	305	9
Vehicle Type	24:00-01:00	30.00	05.00.00		7	18	71	0	30 -	ַ נָ	3:	3,4
Pedestrian/Handcart		- (• •	4	3	164	456	267	14.	74/	<u>.</u>	3 -
Bicycle	_	4		•	•	·	•	•	•	• ;		284
Bicycle-with-Trailer/Cyclo	•	• •	٠ (ą	22	26	412	515	8	333		1634
Motorcycle	ν ο		י מ	<u>.</u>	F	. 2	\$	2	178	172	4	25.
Motorcycle-with-Trailer	2	φ	י פ	2 1	3 °	· ·	£	5	51	=	-	<u>ت</u> ر
Passenger Car/Sedan	•	•	Ν.	-	י י	,	-	თ	ო	N	• •	71 (
Microbus	•		- '	• •			7	10	12	£	42	*
Minibus/Van		*** ?	υĐ	· •		, Ē	4	12	\$	ត	œ	<u></u>
Standard Bus		7		- 1	, .	2 4	•	8	83	53	œ	1
Truck with 2 axles	\$	\$	₩.		- •	· -	. 4	9	9	ო		м .
Truck with 3 axles	•	•	•		-		. 2	7	**	m	1	-
Poice or Military Vehicle	•	-		-	. 607	283	1 092	1.053	767	747	599	230
Total	13	8	27		8 6	3 8	107	1043	789	732	293	720
Total No of Vehicles	13	33	. 27	₹ :	77.	8 8	6.15	776	648	585	182	485
Total No of Motorized Vehicles	12	8	27	8	8	Ş 6	2 6	92	62	7.4	4	52
Total No. of MVs not incl. MCs	9 0	11	12	4	11	Q	ř					
Note: MV = motorized vehicle; MC = motorcycle.	= motorcycle.											
						Val for exit	- Dav					
						O PULL	2000	40.00.20.00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00

						Time of Day	,			00.00	22:00:22:00	23 00-24 00	
	00.00.00	13:00:14:00	14:00-15:00	15:00-16:00	16:30-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:W-22:W	26,00-25,00	2	1
Vehicle Type	12.W-13.W	3.5		-	4	21	21	6	2	n	,		
Pedestrian/Handcart	5	6 0	ž	= ;	1 2	5	8	11	25	4	58	~	
	125	88	123	33	207	887	3		•	•	•	•	
Class Charles H. Arts			•		•	•		' <u>!</u>	4	42,	87	33	
Bicycle-with-Trailed/cyclo	940	777	337	321	98 8	355	245	203	0.7	3 2	; {	\$	
Motorcycle	017	1+7	3 ;	Ş	žĆ.	101	Ş	55	8	ß	3	<u> </u>	
Motorscin-with-Trailer	138	121	149	20.	3	į	ç	c	un	ς	∞	'n	
Section 2	7	6	4	ξ	12	3 7	2 .	>	•	•	•	1	
Passerger Ceroecen		c	-	17	m	m	-	•	- +	4 7	•	•	
Microbus	7	4 2	ç	٥	-		φ	φ	m	-	- 1	٠,	
Minibus/Van	6	•	2	.	: '	ų	er.	er)	60	n	2	-	
Cranderd Burn	6 0	~	6 0	20	n	> :	,	ų	=	80	3		
1	ţ.	12	₽	9	48	<u></u>	2	Þ	-	•	•	•	
FUCK WITH Z BANGS	? (r	47		-	•	•	•				
Truck with 3 axies	N			•	•		•			-	•		ı
Police or Military Vehicle	•	•	-	4	- 33	000	900	358	336	234	<u>2</u>	88	
	520	493	675	675	932	700	3 5	340	9CE	229	151	\$	
and a contraction	545	487		3	. 818	118	114	3 8		785	5	57	
TOTAL NO. OF VEHICLES	Ę	407	. S.	53	565	223	379	7/7	717	3 2	ŧ	9	
Total No. of Motorized Verices				D	5	4	ଛ	9	57	57	2		ı
Television of Make and love Miles	8	23	ţ	3	3								

Summary of 24-Hour Road-Based Traffic Count Results, National Route 91, Southbound, September 1997 (Without Seasonal Adjustment Factor)

						Time of Day	Dav					00 07 00	
					00.00.00	00:30 00:30	08:00-07:00	07-00-08-00	06:00-06:00	09:00-10:00	10:00-11:00	11:00-12:00	
Webicle Type	24:00-01:00	01:00-02:00	02:00-03:00	03:00-04:00	04:00-05:00	3000	0	,	12	6	ச	4	
Con 1950				•	9	₽	•	- !	• ;	2	, and	176	
Pedestnar/Handcart	•		c		8	88	\$	179	114	8	3 '	•	
Bicycle	•	t				•	'n	•	-	•	-	•	
Bicycle-with-Trailer/Cyclo	•		•	• ,	' 8	S	920	403	392	339	345	83	
Motorcole	œ	12	0	4	9 1	8 8	94	787	35	168	143	147	
Management of the Trailer	10	4	-	9	F 8	3 '	3 3	3	đ	12	4	7	
			•	-	•		2	5		į	•	•	
Passenger carbedan	•		•	•	7	7	-	-	7	٠;		a	
Microbus	7			¥	-	r)	9	7	60	-	2 :	,	
Windous/Van		_	•		•	•	0,	12	13	12	12	2	
Standard Bus	•			4	- 1	. 4			52	7.	20	42	
Frank with 2 axies	n	~	en	-	n	· ·			ď	4	2	73	
Touch with 3 ayles		•	•	•	•	7	N (-	•	•	
		•		•	•		7	7	- 60	Can	683	862	
Police of Military Vertice	66	900	2	37	110	303	986	28	8	8	3 3	9	
Total	3			12	5	290	986	814	228	671	Ž	3 9	
Total No. of Vehicles	83	27	7	5 8	8	27	825	635	611	573	87 87 87 87 87 87 87 87 87 87 87 87 87 8	787	
Total No. of Motorized Vehicles	23	24	₽.	3	8 '	ξ ?	۶	4	8	8	8	4	
Total No of MVs not incl. MCs	10	90	7	on .	os	47	B	F					
Note: MV = motorized vehicle; MC = motorcycle	= motorcycle.												
													24-Hour
			İ			fed to estill	Loay	00.00	20-00-24-00	24:00-22:00	22 00 23 00	23:00-24:00	
	12:00-13:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	13.00-20.00	3	ŀ	9		
cie i ype		9	4	9	9	15	4	3	٦,		, ,,	α	2.479
PedestraniHandcart		6	125	(27	216	215	<u>g</u>		6,	₹	5	, ,	
Bicycle	0	5	}		٠		•		1	•	•	. 1	
Bicycle-with-Trailer/Cyclo	•		•	·	788	444	331	211	189	2 01	2	83	8 5
Motorcycle	228	254	8	225	Ī			E	\$	23	5	5	
Motorcycle-with-Trailer	129	117	126	128	741	7 9	÷	į «c	Let	•	က	2	
Passanner Carl Seden	13	5	12	4	14	⊇ ¹	2 '	•	. •	9	٠	4	
Microbia		м	7	8	m	- (- ç	4		-	e	
Marine	e	o	₽.	12	12			•	•	i er	-	•	
	=	80	•	80	=	Ď	52	n (rş	•	· ur	4	
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ANNEXURE 3.3 Traffic Assignment Results for the Hau Giang Crossing near Can Tho

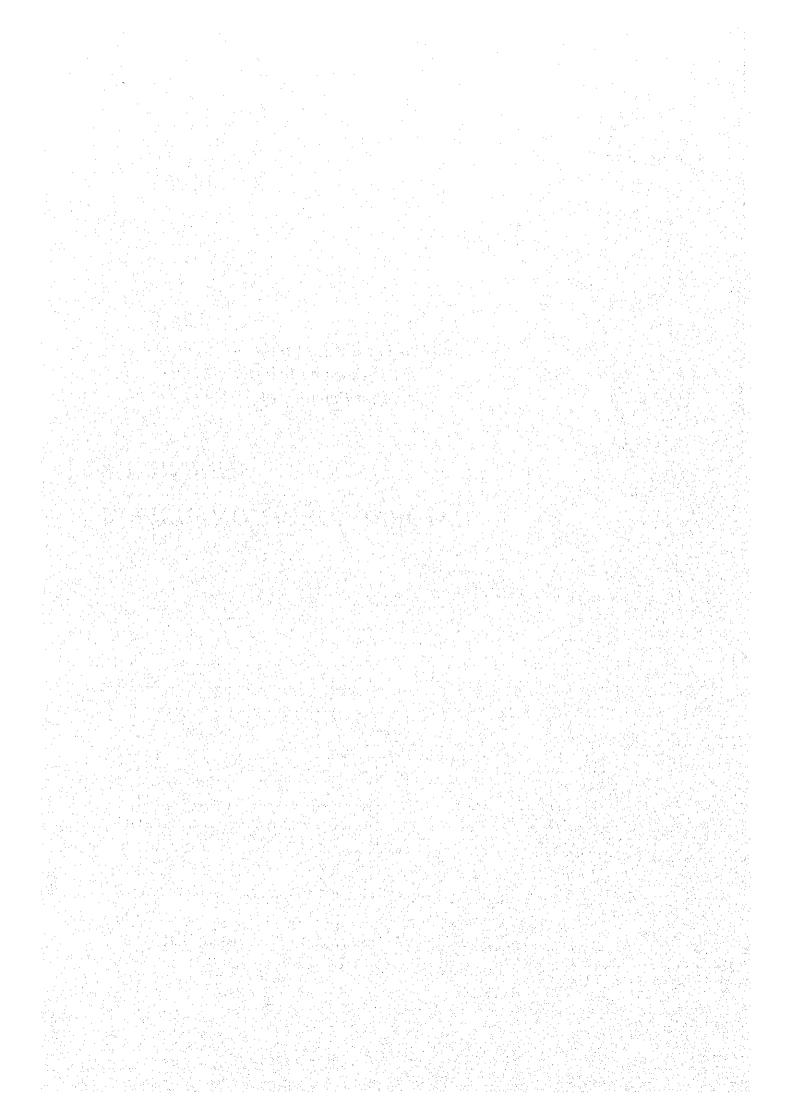
···	Description		No Bridge	Alternative A Bridge	Alternative B Bridge	Alternative C Bridge
Total	Traffic in Vehi	cles /I	Day		<u> </u>	- Tange
2006	MC		9,585	14,360	15,448	15,165
	PC		2,083	2,727	2,798	2,777
	LB		1,038	1,239	1,280	1,267
	НВ		47 5	556	569	566
	LT		738	908	923	. 918
	MT		1,853	2,182	2,210	2,201
-	HT		74	180	189	185
	PCU/Day		13,015	16,728	17,298	17,134
2010	MC		14,125	21,447	22,700	22,281
	PC		3,846	5,080	5,180	5,139
	LB		1,676	2,024	2,074	2,051
	НВ		7 50	887	904	898
	LT	-	1,332	1,712	1,730	1,721
	MT		3,484	4,152	4,194	4,175
	HT		138	387	404	397
	PCU/Day	:	22,359	29,184	29,909	29,628
020	MC	<i>.</i> .	31,877	47,751	50,552	49,612
	PC		10,471	13,795	14,080	13,965
	LB	. "	3,612	4,361	4,466	4,420
	НВ		1,532	1,808	1,846	1,834
	LT		3,835	4,923	4,983	4,958
	MT		10,006	11,906	12,035	11,978
	HT	-	396	1,033	1,073	1,053
	PCU/Day	·	57,213	74,176	75,951	75,262
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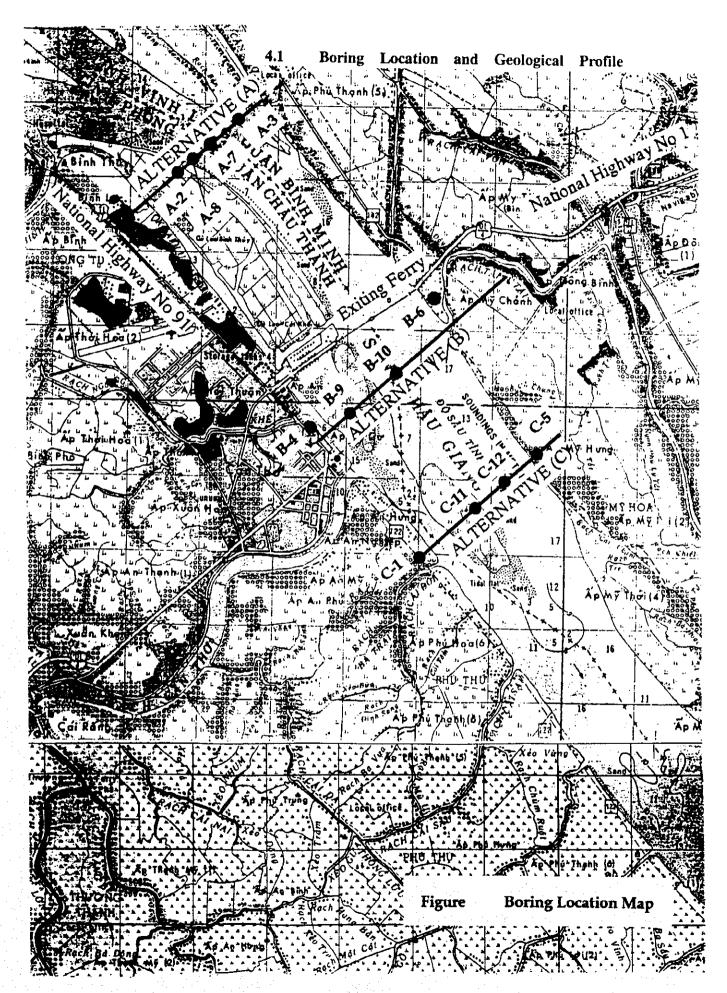
The Feasibility Study on The Can Tho Bridge Construction in Socialist Republic of Viet Nam

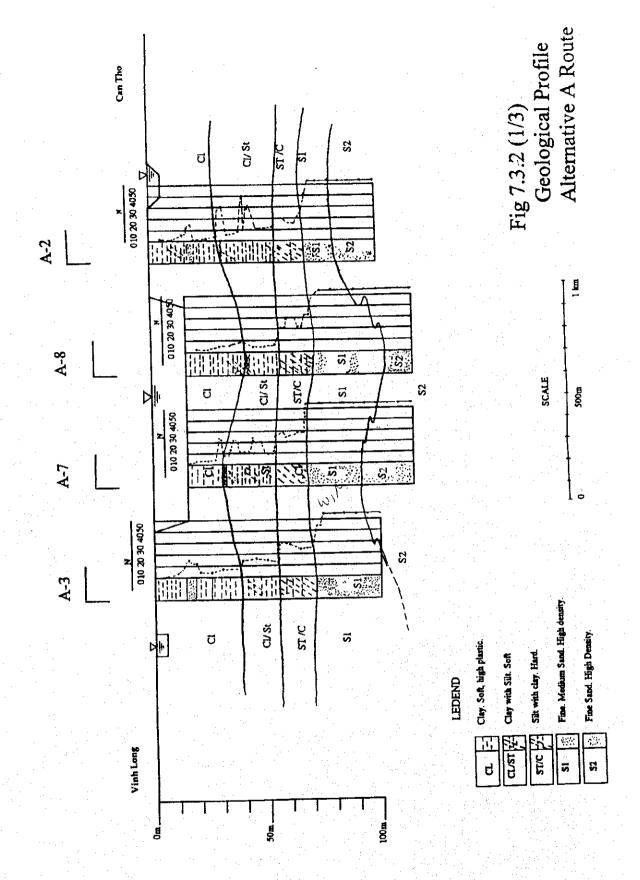
ANNEXURE 4

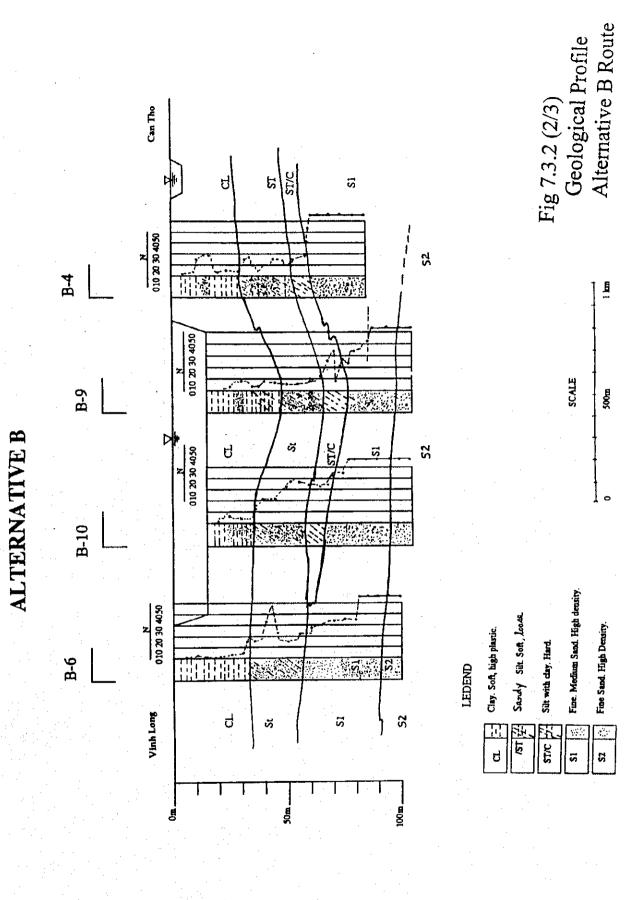
NATURAL CONDITION SURVEYS

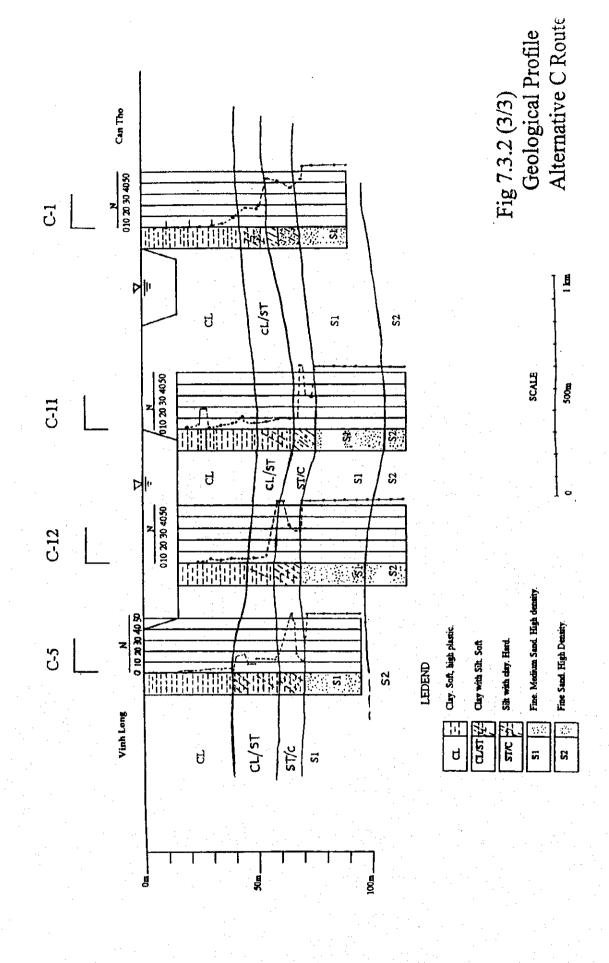
4.I	Boring Location and Geological Profile	A4-T
1.2	Hydrological and Hydraulic Data	
	- Gauging Station Map	
	- Meteorological Observations Map	A4-6
	- Rainfall at Can Tho in 1984	A4-7
·	- Rainfall at Can The in 1994	
	- Water Level of the Hau River at Can Tho	
	- Water Level of the Tien River at My Thuan	A4-10
	- 1984 Water Level H-Max and H-Min, at Can Tho	A4-11
	- Max. Discharge of Can Tho and My Thuan	
	- 1984 Flood Map	
	- 1994 Flood Map	
	- Continuous Duration of 1984 Flood	A4-16
	- 1977,09 Flood Condition of Long Xuyen	
	- Results of the Velocity Measurement at Route A, B & C of the Can Tho	Bridge SiteA4-18
	- Monthly Average Tidal Range (1979-1983)	
	- Monthly Provability and Velocity of Wind Each Direction at Can Tho	



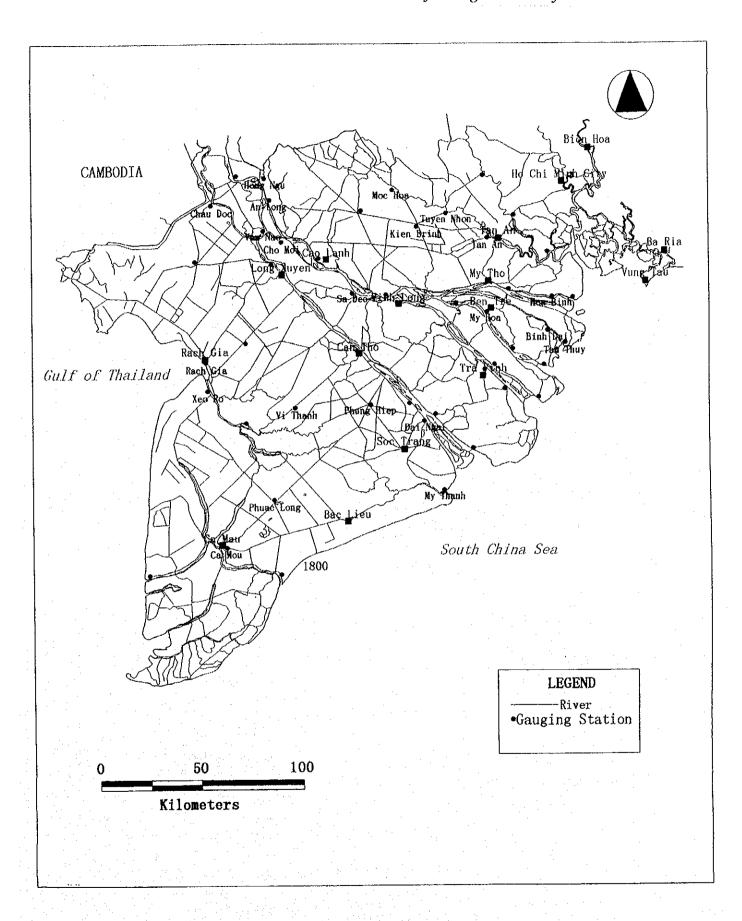






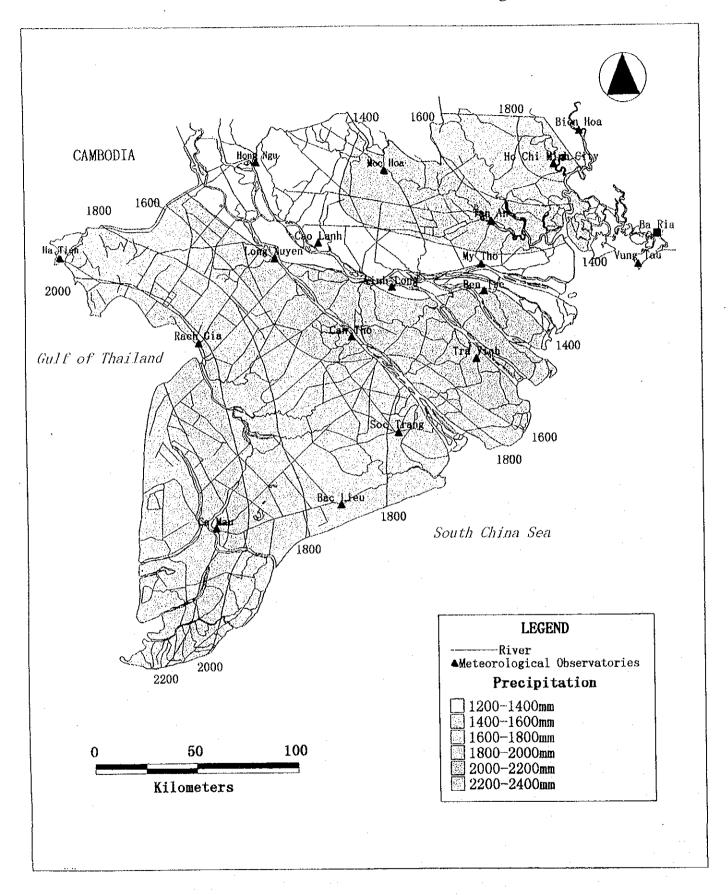


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Figure

GAUGING STATION MAP



Figure

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- Water Level of Hau River at Can Tho

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Year	Month	1	2	3	4	5	6	7	8	9	io	11	12
1982	Max	169	156	156	152	152	137	163	170	192	200	195	180
	Min	-56	-95	-109	-106	-119	-112	-92	-74	-25	17	14	-60
	Mean	70	54	40	43	27	22.	45	59	87	114	102	85
1983	Max	173	160	150	140	124	147	145	170	189	197	203	188
	Min	-72	-73	-93	-107	-119	-127	-103	-71	-25	-17	30	-13
	Mean	68	45	39	27	19	19	35	63	82	103	119	98_
1984	Max	162	164	153	144	140	140	153	187	200	206	197	171
	Min	-68	-80	-114	-113	-118	-114	-82	-53	1	10	12	-32
	Mean	57	45	26	11	13	12	38	66	105	103	106	74
1985	Max	157	148	163	151	140	142	154	166	194	190	192	177
	Min	-65	-82	-96	-117	-104	-126	-73	-55	-4	31	-5	-38
	Mean	65	55	58	32	33	30	56	67	92	105	102	81
1986	Max	170	157	152	145	150	146	157	172	179	196	199	180
	Min	-64	-99	-115	-117	-135	-100	-83	-55	-22	30	10	-45
* * *	Mean	74	54	48	36	24	33	45	69	92	109	105	82
1987	Max	170	167	160	148	135	127	146	162	182	197	184	177
	Min	-62	-103	-108	-98	-110	-118	-112	-70	-28	12	-10	-41
	Mean	70	49	39	39	28	26	40	57	86	103	95	88
1988	Max	167	166	151	150	142	132	133	182	182	190	179	161
	Min	-55	-88	-114	-102	-120	-120	-100	-51	-32	-20	-9	52
	Mean	67	58	46	41	25	. 30	41	68	80	93	105	77
1989	Max	155	159	165	147	142	141	150	171	192	209	191	177
	Min	-59	-106	-117	-108	-118	-107	-102	-65	-10	29	19	-49
	Mean	71	57	48	28	25	32	47	. 69	85	112	109	83
1990	Max	170	154	147	160	141	152	156	165	173	190	190	188
	Min	-46	-103	-107	-104	-106	-100	-72	-46	-24	34	22	-46
	Mean	76	58	51	36	34	44	54	68	87	113	108	91
1991	Max	171	178	160	146	140	137	161	171	191	198	187	177
	Min	-52	-86	-106	-99	-99	-102	-78	-51	11	27	17	-24
	Mean	75	62	47	38	33	29	51	72	103	118	115	91
1992	Max	173	154	149	149	132	135	165	184	206	203	182	161
	Min	-53	-86	-91	-99	-100	-110	-88	-84	-26	23	-4	-46
	Mean	1	53	41	33	29	27	49	66	85	110	106	77

- Water Level of Tien River at My Thuan

													(cm)
Year	Month	1	2	3	4	5	6	7	8	9	10	11	12
1982	Max	160	147	136	140	137	125	148	156	196	187	196	177
	Min	-38	-78	-97	-94	-105	-91	-68	-50	-1	45	32	-16
	Mean	83	67	50	54	38	32	54	69	99	128	119	100
1983	Max	162	143	136	123	113	133	128	164	172	177	189	174
	Min	-43	-66	-103	-95	-94	-103	-78	-54	-10	4	57	19
	Mean	84	58	47	35	32	27	42	74	91	115	130	111
1985	Max	152	143	158	140	131	137	150	161	183	186	. 189	178
	Min	-32	-59	-72	-98	-83	-103	-50	-32	8	54	16	11
	Mean	82	71	73	45	48	42	70	79	107	133	121	110
1986	Max	176	163	159	145	150	127	148	166	172	191	192	180
	Min	-44	-73	-91	-96	-119	-80	-67	-36	-8	48	31	-16
	Mean	95	75	68	56	45	53	58	84	108	126	120	99
1987	Max	104	162	155	141	126	122	136	156	172	103	174	176
	Min	-29	-76	-95	-94	-94	-102	-96	-62	_7	25	6	-14
	Mean	87	65	49	47	36	34	52	71	102	118	109	103
1988	Max	161	156	143	138	132	132	135	176	172	176	176	158
	Min	-42	-65	-95	-90	-104	-94	-76	-31	-16	-16	36	-26
	Mean	81	72	59	54	- 34	42	54	82	93	107	119	91
1989	Max	152	150	136	138	126	130	140	160	179	192	184	170
	Min	-33	-79	-89	-80	-90	-80	-60	-30	-10	40	37	4
	Mean	85	70	62	39	36	42	59	82	97	125	121	97
1990	Max	163	153	136	138	136	138	140	156	175		185	179
	Min	-23	-72	-80	-89	-88	-80	-57	-26	-10	28	30	
	Mean	90	69	- 63	48	44	53	3 60	83	101	T	125	
199	Max	164	158	144	142	130	120	5 14	3 166	182	197	180	
	Min	-18	-70	-87	-86	-82	9.	<u> 7</u>	7 -22	2 20	5 51	49	1
1.	Mean	91	75	57	52	44	3	8 6	3 80	119	8 4 5		100
199	2 Max	165	142	132	131	122	12	5 15	6 169	18:	1		
	Min	-58	-66	-78	-82	-90	9-9						T
	Mean	86	66	51	42	37	3	5 5	8 7	9 9	4 120	115	88

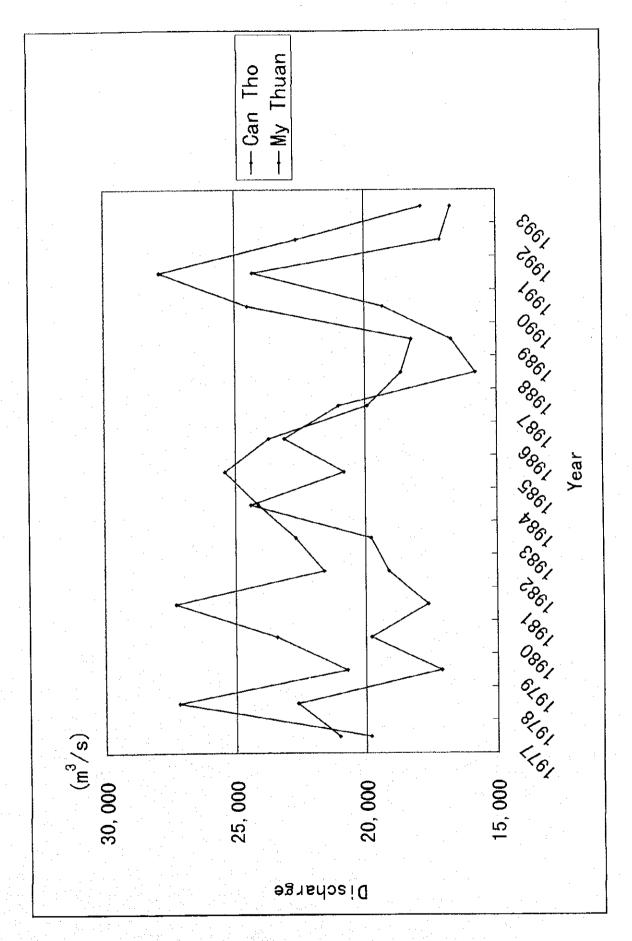
Maximum Water Level Minimum Water Level

1984 WATER LEVEL H-MAX. AND H-MIN. AT CAN THO

A4-11

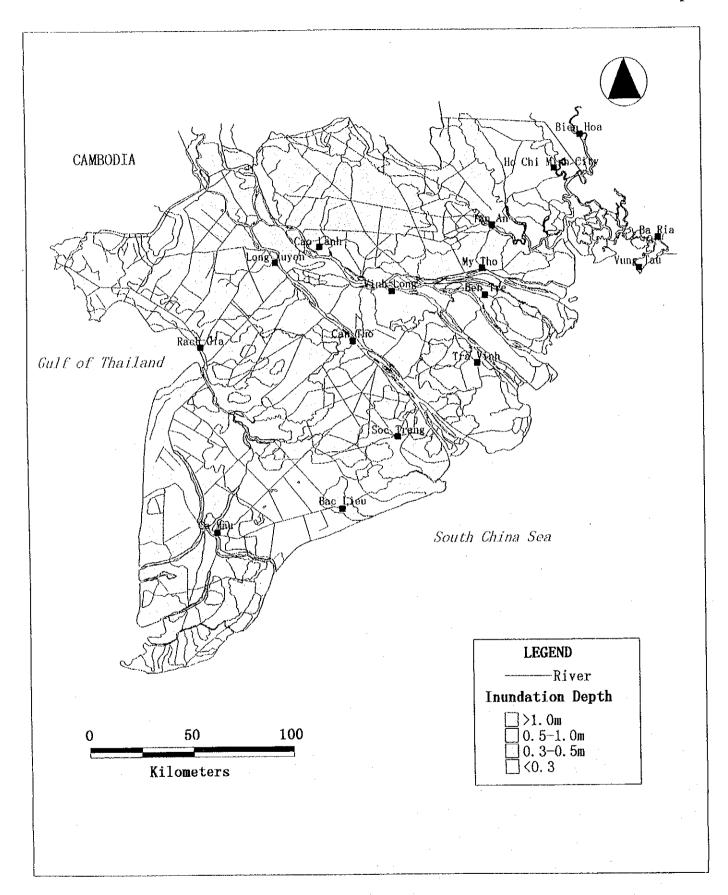
Max. Discharge of Can Tho and My Thuan

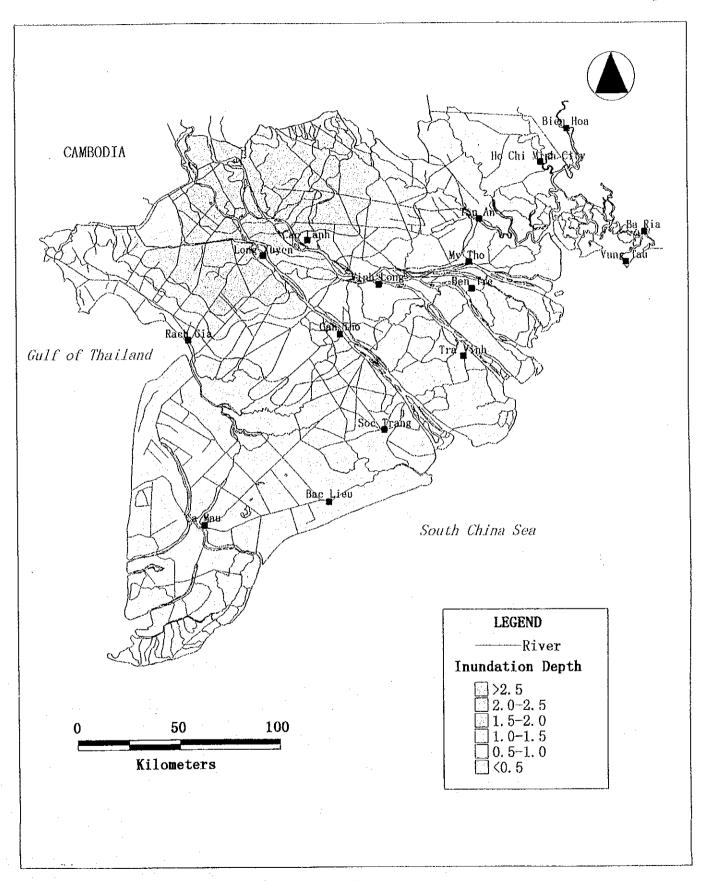
Year	Cah Tho (m ³ /s)	My Thuan (m ³ /s)
1977	19,800	21,000
1978	27,200	22,600
1979	20,700	17,100
1980	23,400	19,773
1981	27,300	17,600
1982	21,600	19,100
1983	22,669	19,773
1984	24,100	24,400
1985	25,400	20,800
1986	23,700	23,100
1987	19,900	21,000
1988	18,600	15,800
1989	18,200	16,700
1990	24,500	19,300
1991	27,900	24,300
1992	22,600	17,100
1993	17,800	16,700
Мах.	27,900	24,400
Min.	17,800	15,800
Ave.	22,669	19,773



Figure

MAX. DISCHARGE OF CAN THO AND MY THUAN





1994 FLOOD MAP

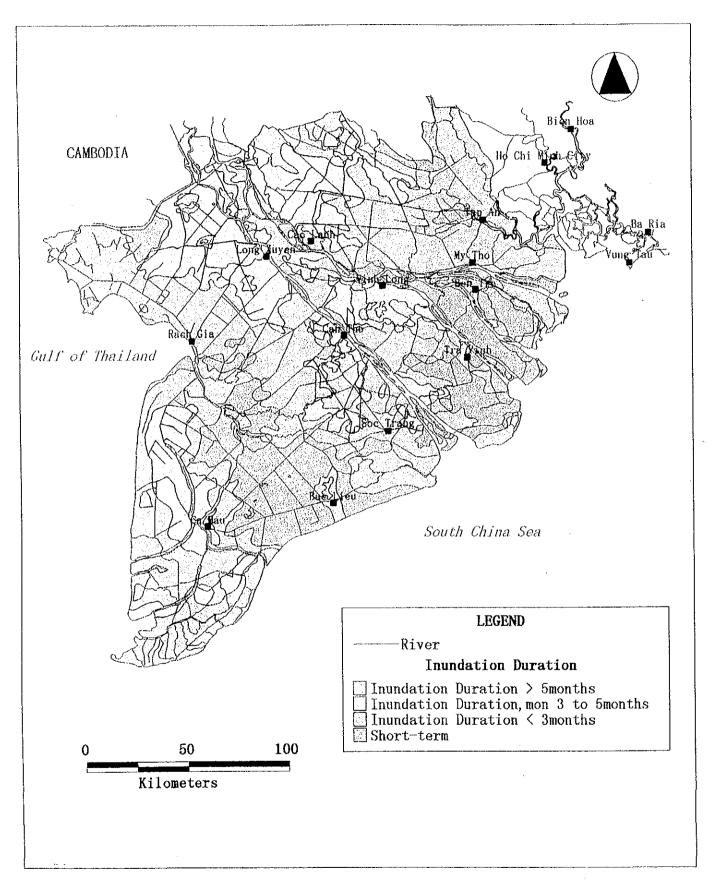




Figure 7.2-18 1997.09 FLOOD CONDITION OF CHAU DOC



1997.09 FLOOD CONDITION OF LONG XUYEN

Results of the Velocity Measurement at Route A, B & C of Can Tho Bridge Site

VELOCITY (m/s)	0.363	0.469	0.393	0.557	0.680	0.724	0.698	0.454	0.635	1.181	1.666	0.637	-	. 0.700	0.692	0.061		1.975	2.033	0.076
DEPTH - 0.2H (m)	2.440	3.680	2.680	2.200	3.460	2.500	3.480	2.640	009.0	3.200	2.360	0.400		3.500	3.360	0.340		3.320	3.140	0.200
DEPTH - H	12.200	18.400	13.400	11.000	17.300	12.500	17.400	13.200	3.000	16.000	11.800	2.000		17.500	16.800	1.700	a de marco de la composição de la compos	16.600	15.700	0.700
WATER E. L. (m)	1.617	1.617	1.617	0.907	0.907	0.907	1.320	1.320	1.320	0.290	0.290	0.290		1.220	1.220	1.220		0.190	0.190	0.190
TIME	71,00	7h 00	7h 00	13h 00	13h 00	13h 00	8h 00	8h 00	8 r 00	14.30	14.30	14.30		8h 00	8h 00	8h 00		14.30	14.30	14.30
TON.	105 46.42	105 46.26	105 46.07				105 48.13	105 47.91	105 47.69				÷	105 48.73'	105 48.56'	105 48.35				
LAT.	10 4.68'	10 4.52'	10 4.34'				10 3.13'	10 2.96'	10 2.80'					10 2.25'	10 2.11'	10 1.94				
X From NE RIVERBANK (m)	100.0	500.0	1000.0	100.0	500.0	1000.0	100.0	600.0	1100.0	100.0	600.0	1100.0		100.0	500.0	1000.0		100.0	500.0	1000.0
ROUTE (A, B, C)	A	Ą	А	A	Ą	Ą	В	В	В	В	В	Ø		Ü	ပ	ပ		Ü	O	ပ
DATE	21 Sep.1997						22 Sep. 1997							22 Sep. 1997						

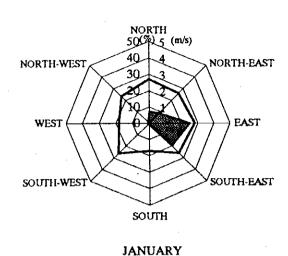
- Monthly Average Tidal Range (1979 - 1983)

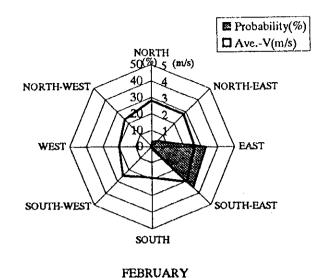
MONTHLY AVERAGE TIDAL RANGE(1979-1983)

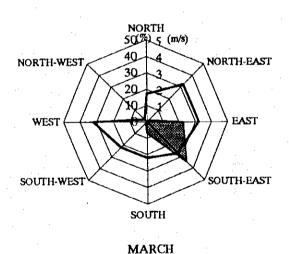
•												(cm)	
Station	4	2	3	4	5	M o 6	nth 7	8	9	10	11	12	Distance from the sea (km)
My Thuan	150	155	152	175	172	161	164	121	100	94	103	152	112
Tan Chau	62	74	85	84	84	78	21	10	8	3	22	35	220
My Tho	214	211	216	222	236	259	232	222	205	189	202	207	56
Can Tho	174	181	191	203	208	225	166	146	117	118	134	162	88

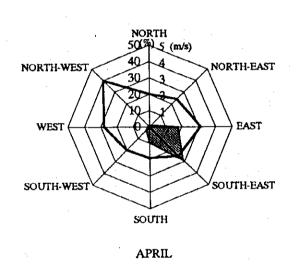
MONTHLY PROBABILITY AND AVERAGE VELOCITY OF WIND EACH DIRECTION AT CAN THO

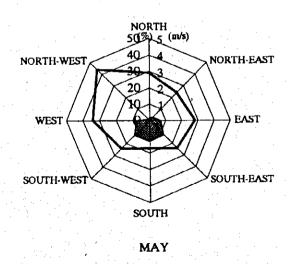
Month			2				4		2		9		7		×		6		0.				,a	12
Direction	P(%)	V(m/s)	P(%)	P(%) V(m/s) P(%) V(m/s) P(%) V(m/s) P(%) V(m/s)	P(%)	V(m/s)	P(%)		P(%) V(m/s)	(m/s)	P(%) V(m/s)		P(%) \	/(m/s)	P(%) V(m/s) P(%) V(m/s) P(%) V(m/s)	/(m/s)	V (%)	/(m/s)	P(%) \	P(%) V(m/s) P(%) V(m/s)	P(%)		P(%)	V(m/s)
NORTH	7.3	2.7	3.0	2.8	0.3	1.7	0.4	2.0	1.3	2.9	9.0	2.5	0.5	2.0	0.3	1.7	1.6	1.8	9.0	2.9	18.7	2.9	19.9	2.8
NORTH-EAST	0.6	2.6	5.2	2.8	1.6	3.2	1.3	2.4	2.6	2.4	0.4	2.2	0.2	5.0	0.2	3.0	1.3	2.3	4.4	2.6	13.0	2.7	12.5	2.6
EAST	25.3	2.8	33.0	2.6	22.7	3.2	17.7	3.1	9.9	2.8	1.4	2.0		0.0		0.0	1.8	2.4	7.5	2.5	14.0	2.5	11.7	2.5
SOUTH-EAST	20.0	2.6	35.6	3.0	34.6	2.7	28.9	2.5	12.1	2.4	2.6	1.7	1.2	2.3	0.3	2.7	1.9	2.0	3.2	2.3	4.3	2.0	6.7	2.5
SOUTH	1.2	1.7	1.6	1.9	7.0	2.2	9.7	1.9	12.8	1.7	7.7	1.8	8.6	1.9	2.8	2.1	4.3	1.9	2.8	2.2	1.2	1.8	4.0	1.5
SOUTH-WEST	0.8	2.6	0.2	2.5	1.4	2.2	3.0	2.0	12.7	2.4	23.4	2.5	29.0	2.5	32.8	2.9	19.1	2.5	7.7	2.1	5:0	2.2	0.2	1.0
WEST	6.0	1.8	0.7	2.0	0.4	3.2	1.0	2.8	7.6	3.4	23.7	3.5	23.8	3.4	30.9	3.6	22.3	3.1	9.4	2.8	1.5	1.7	0.3	2.7
NORTH-WEST	6.0	2.3	0.4	2.3	0.4	0.2	0.1	4.0	8.0	4.4	2.3	3.3	2.0	3.0	2.3	4.3	2.8	2.9	7.6	2.9	4.4	2.7	3.6	2.4
WINDLESS	34.6		20.3		31.5		37.9		43.5		37.9		34.7		30.4		45.0		48.4		42.4		44.7	

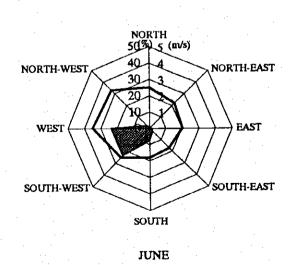




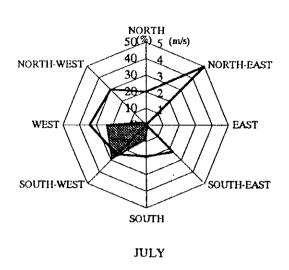


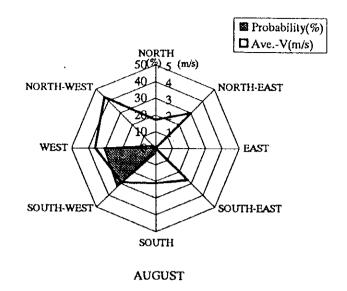


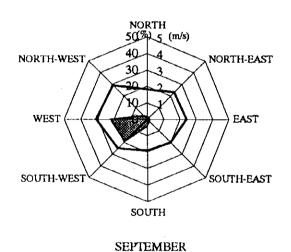


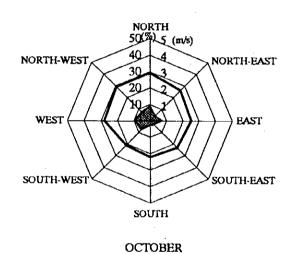


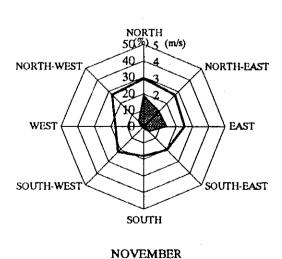
MONTHLY PROBABILITY AND AVERAGE VELOCITY EACH DIRECTION AT CAN THO (JAN - JUN)

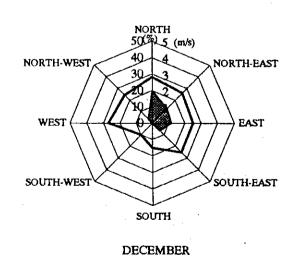












MONTHLY PROBABILITY AND AVERAGE VELOCITY EACH DIRECTION AT CAN THO (JUL - DEC)