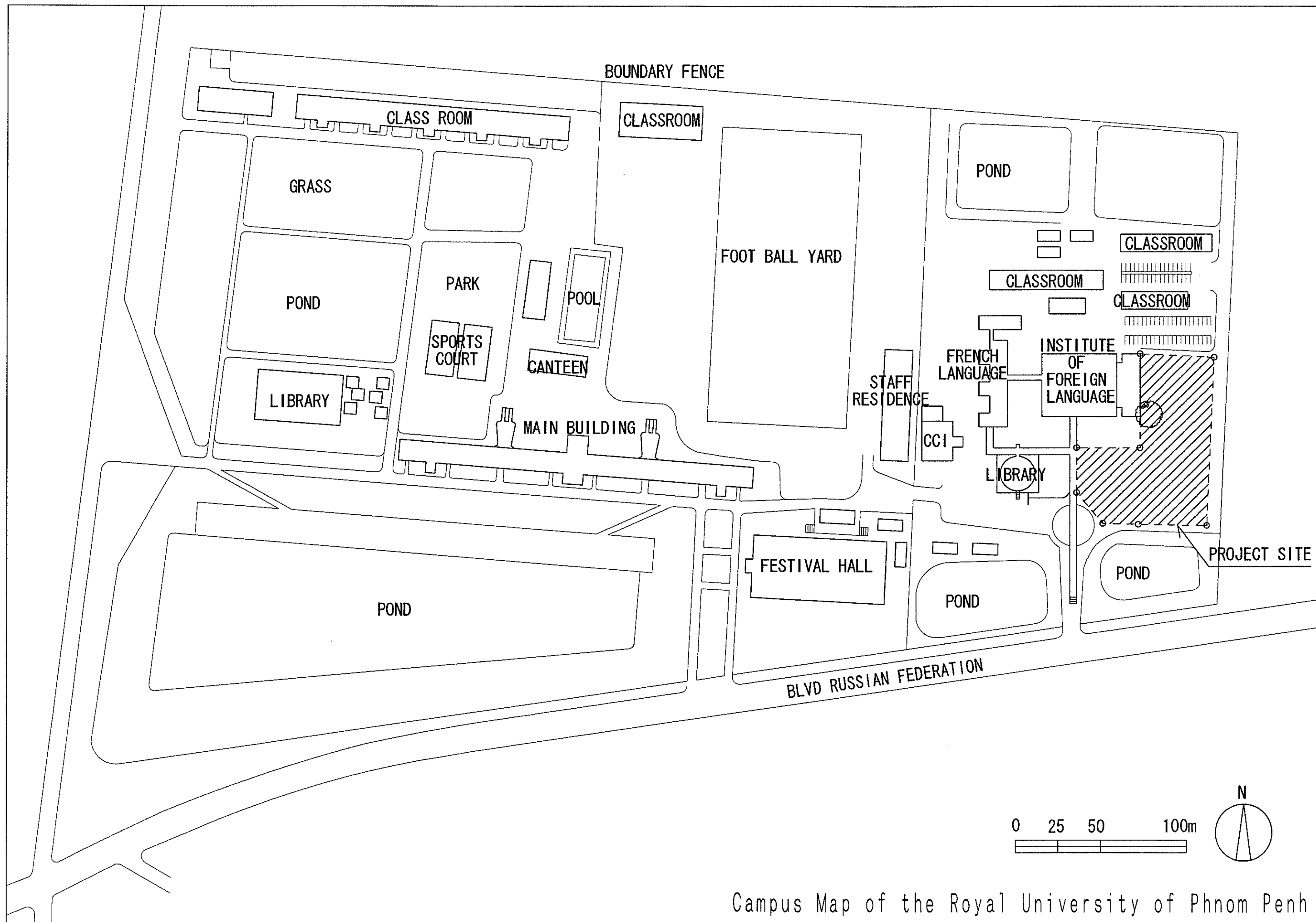
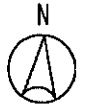
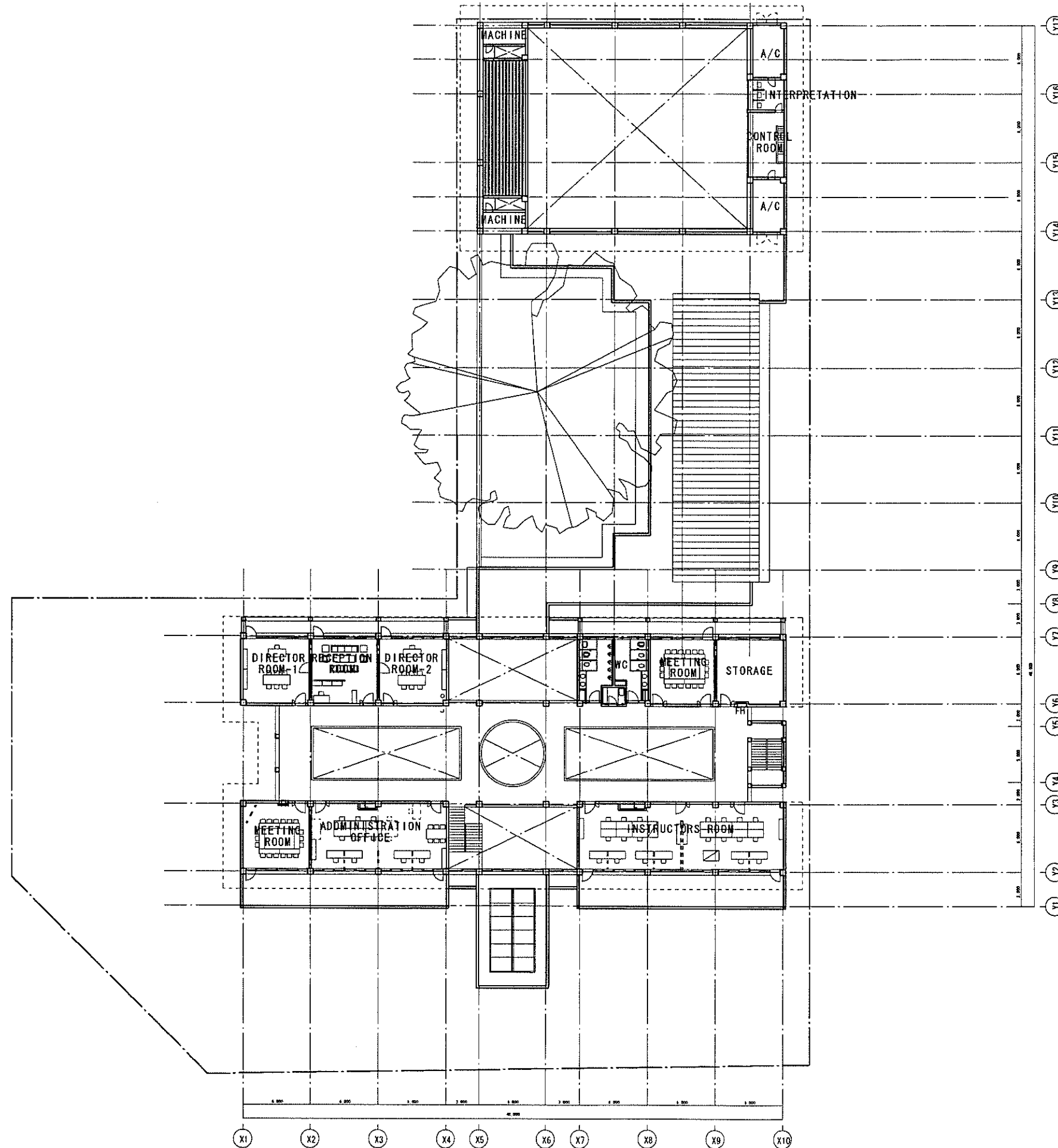


2-2-3 Basic Design Drawing



Campus Map of the Royal University of Phnom Penh



PROJECT

THE PROJECT FOR CONSTRUCTION OF
THE CAMBODIA-JAPAN COOPERATION CENTER (CJCC)

REVISION DATE

NO.	DATE	DESCRIPTION	BY	APP'D

SCALE 1/400

DATE MAR. 2004

DESIGNED BY /PC/

CHECKED BY

WORK TITLE

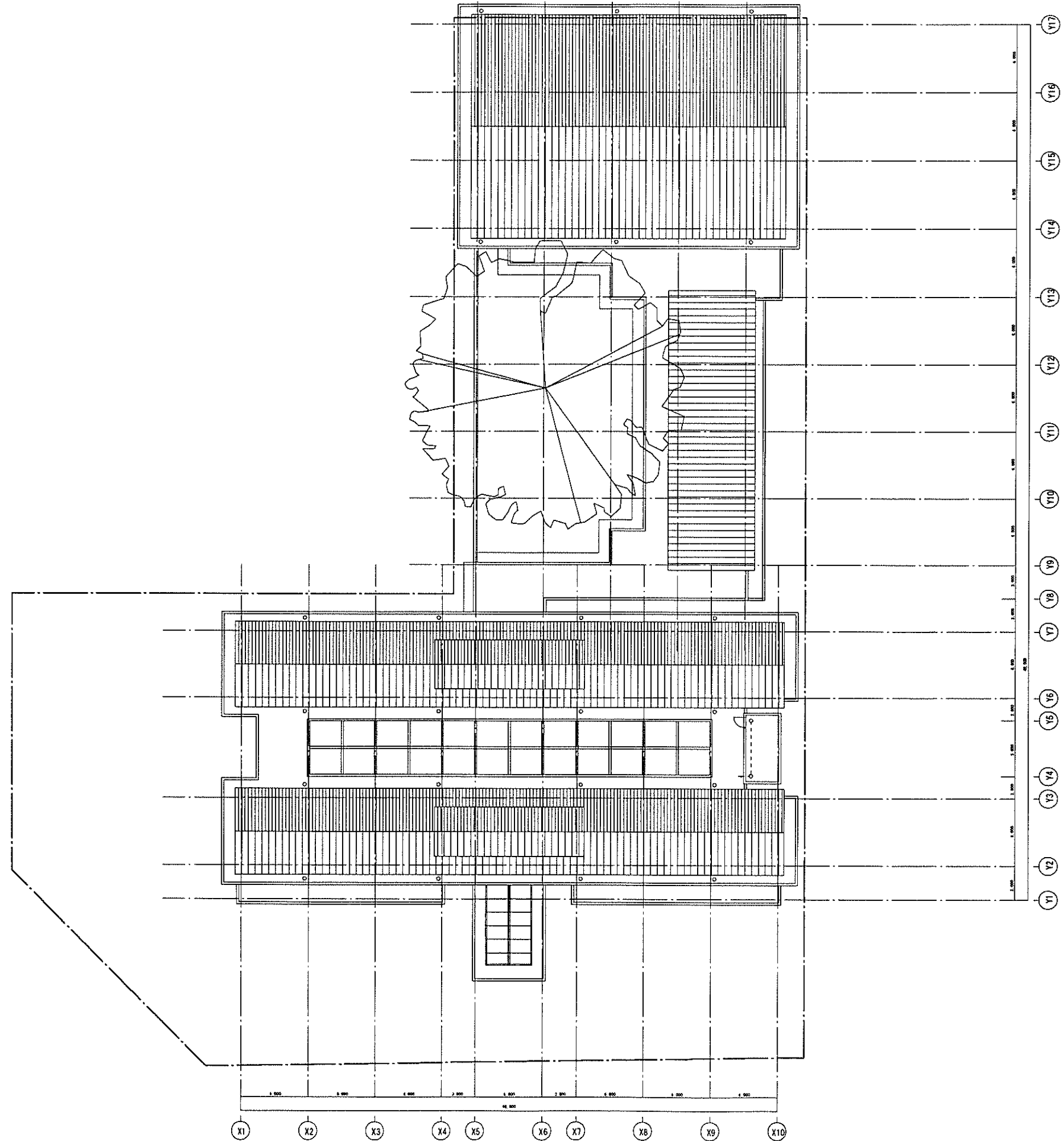
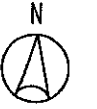
2nd FLOOR PLAN

DWG. NO.

02

APPROVED BY

PACIFIC CONSULTANTS INTERNATIONAL



PROJECT

THE PROJECT FOR CONSTRUCTION OF
THE CAMBODIA-JAPAN COOPERATION CENTER (CJCC)

GENERAL NOTE

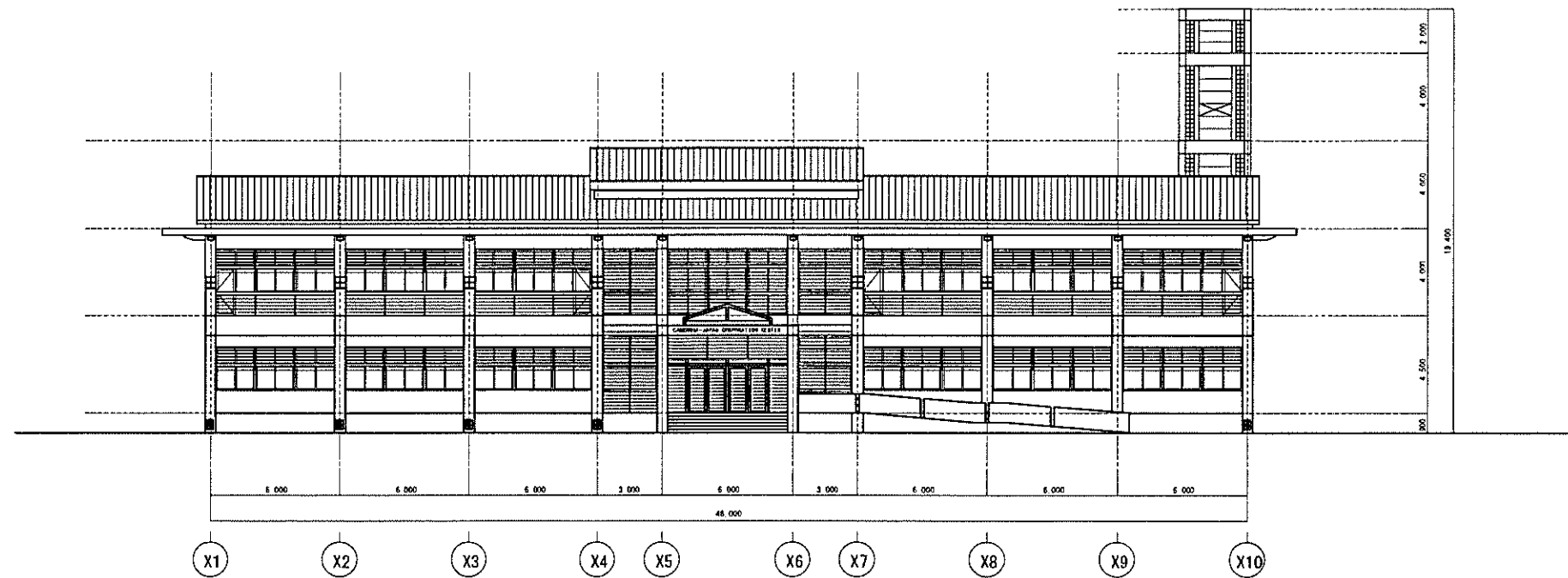
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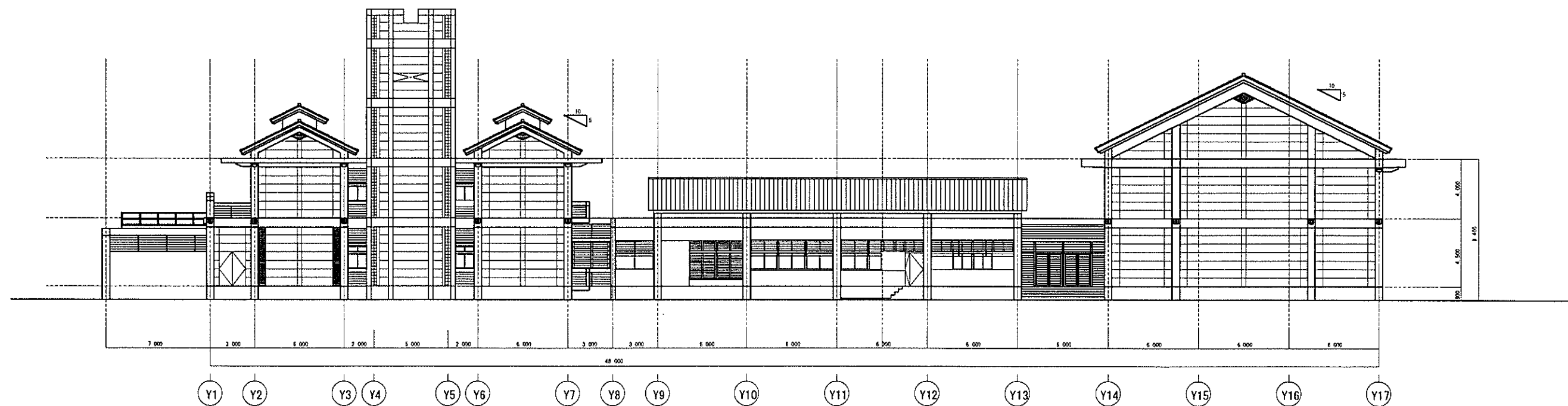
ROOF FLOOR PLAN

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03

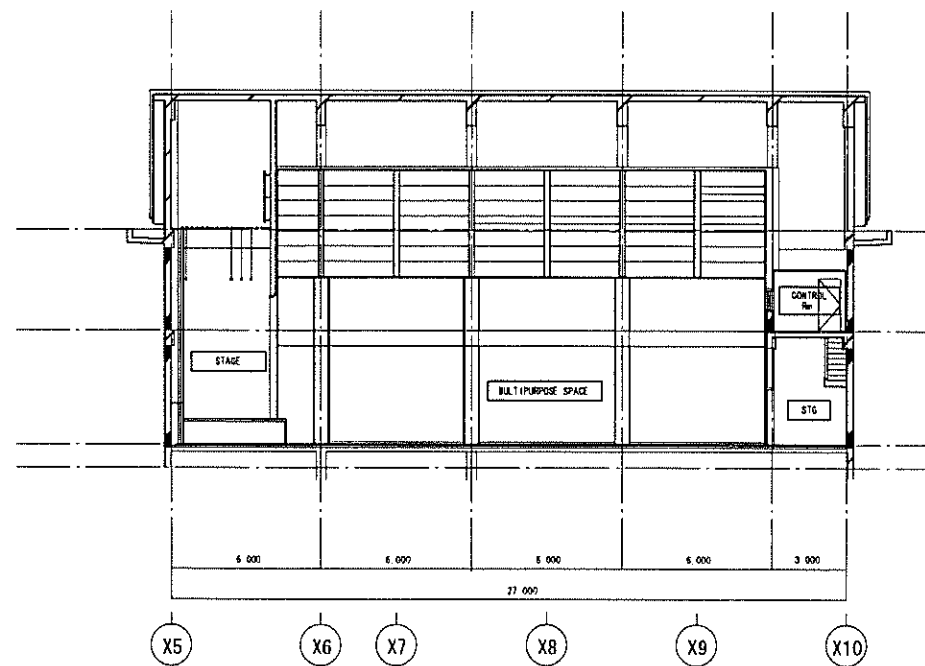
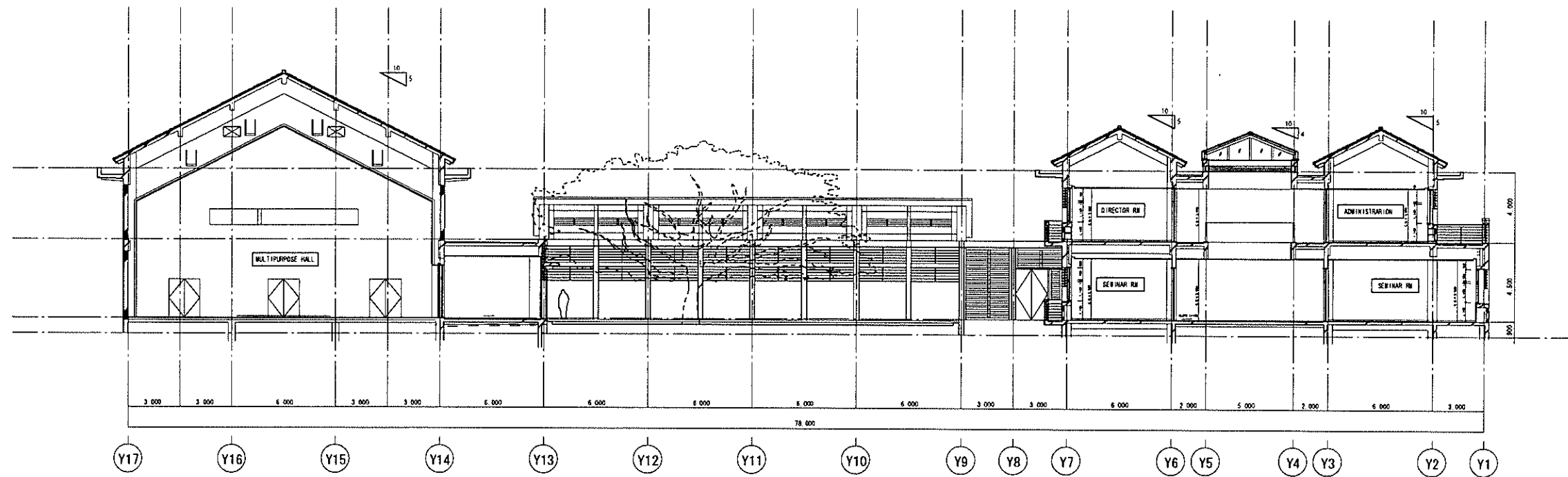
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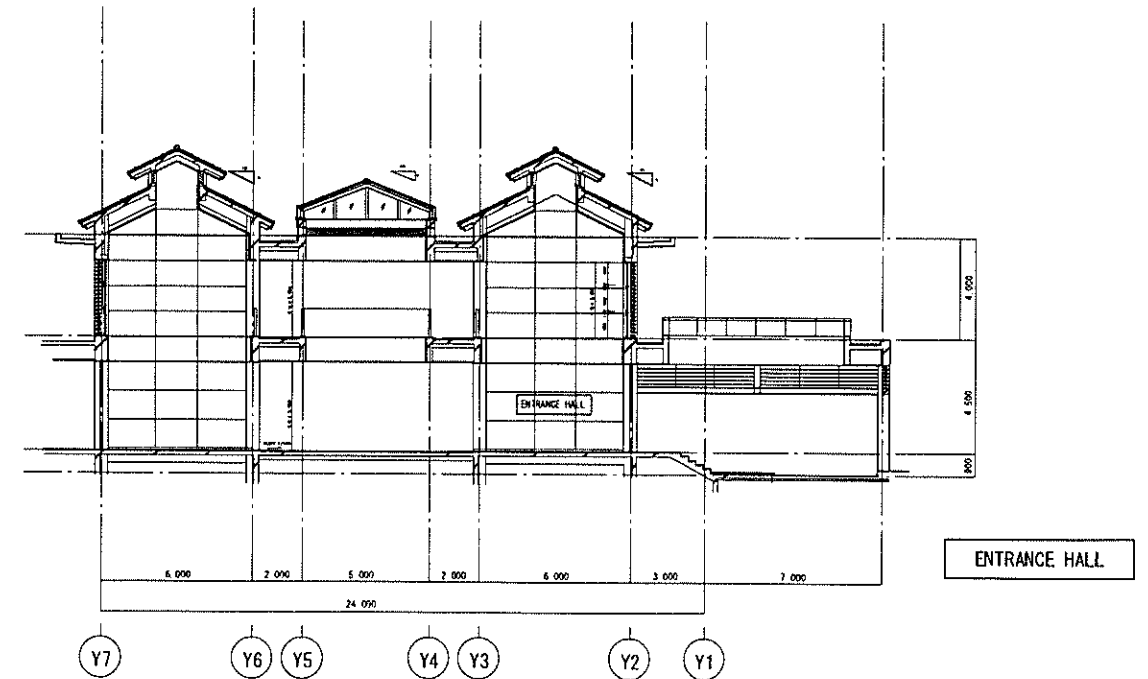
SOUTH ELEVATION



EAST ELEVATION



MULTIPURPOSE HALL



ENTRANCE HALL

PROJECT

THE PROJECT FOR CONSTRUCTION OF
THE CAMBODIA-JAPAN COOPERATION CENTER (CJCC)

GENERAL NOTE

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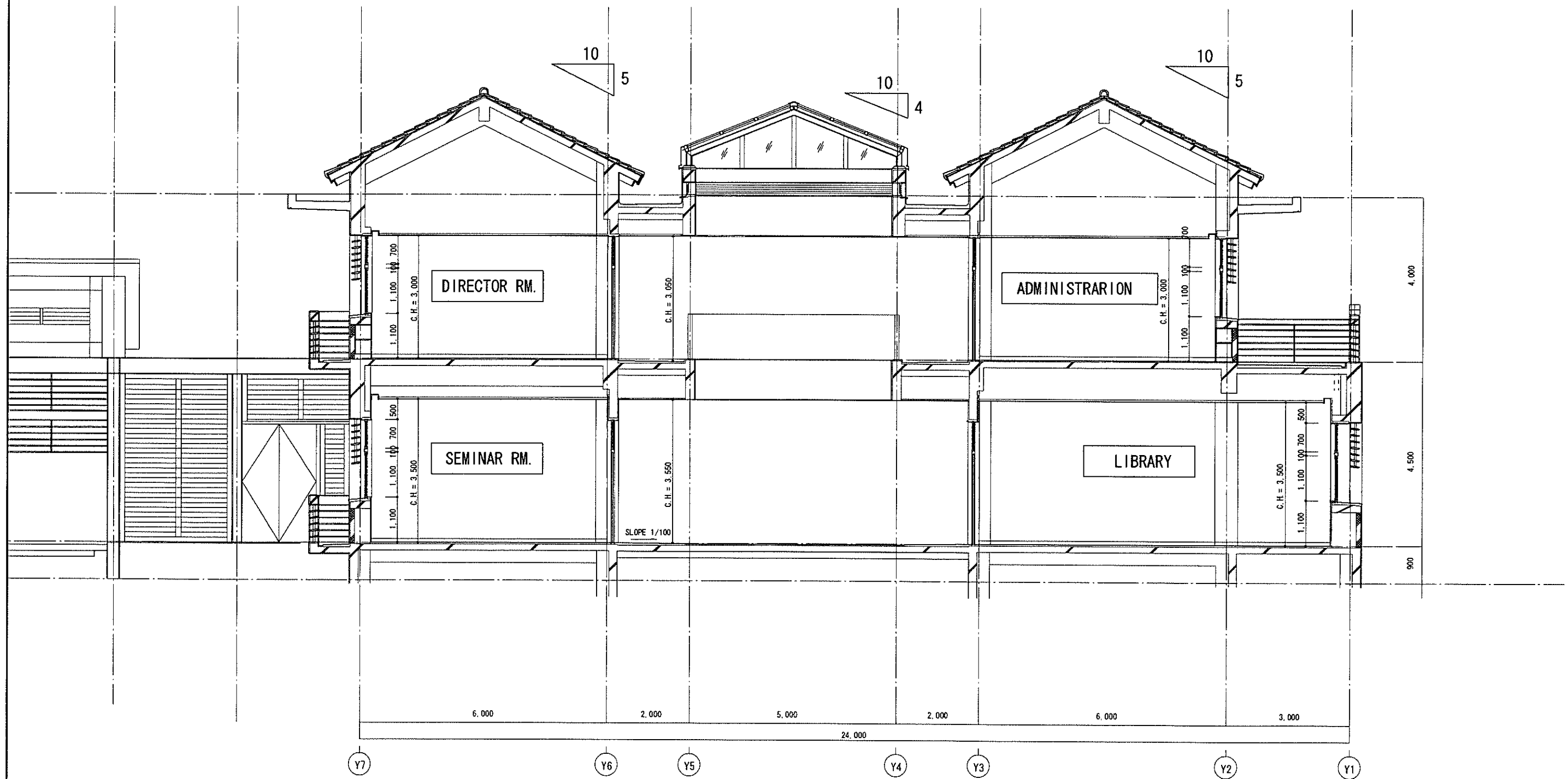
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SECTION

05

PACIFIC CONSULTANTS INTERNATIONAL



2-2-4 Implementation Plan

2-2-4-1 Implementation Policy

(1) General

- 1) The Exchange of Notes (E/N) for the Grant Aid Project shall be concluded between the Government of Japan and the Royal Government of Cambodia after the cabinet meeting and decision by the Government of Japan.
- 2) In regard to E/N, Japan shall commit itself officially to assist and initiate specific action.
- 3) After the above-mentioned conclusion, a consultant agreement shall be signed between a consultant of Japanese nationality and the Royal Government of Cambodia and detailed design and supervision services shall commence immediately.

(2) Detailed Design Stage

- 1) For the Detailed Design, full details of facilities and equipment in the Basic Design should be carefully confirmed and discussed with the implementing agency.
- 2) The consultant shall discuss the technical issues through meetings with the relevant authorities in Japan and Cambodia during the detailed design stage.
- 3) The detailed design is expected to take approximately 3 months to complete after the agreement of the E/N.

(3) Tender

- 1) The tender for the construction of the facility and procurement and installation of equipment shall be conducted in accordance with the guidelines of JICA's Grant Aid Scheme.
- 2) Equipment in the Project, which are utilities for the facility or furniture, is a small portion compared with the whole project and needs to be adjusted to the facility construction work. After the discussions in Japan, they will be included in the facility construction scheme. Therefore, the tender shall be conducted as one package with contractors from Japan.

- 3) The Consultant will assist the implementation agency for the construction contract in accordance with the guidelines of JICA.

(4) Construction

- 1) According to the result of the Basic Design Study, local building materials which are acceptable in quality and supply in Cambodia should be used for the Project as much as possible. However, ensuring and maintaining quality are the most important items to be noted.
- 2) For the planning of labor supply, it is important that a Japanese contractor, as the prime contractor, supervise and manage the local contractor and his laborer to maintain the quality assurance required for the Project.

(5) Implementation Organization

The organizations involved in this Project are as shown below:

The organization responsible for the Project is the Ministry of Education, Youth and Sport (MoEYS) and the executing organization is CJCC in the Royal University of Phnom Penh (RUPP). The following diagram shows the relationship between the executing organization, the Japanese consultant and contractor.

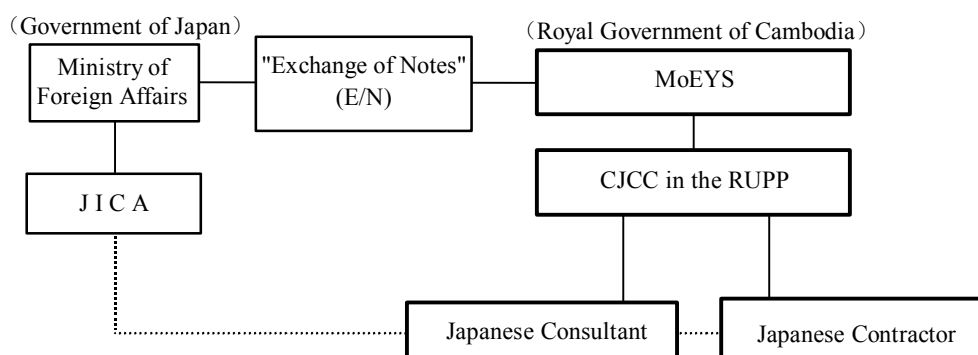


Figure 2-9 Implementation Organization

2-2-4-2 Implementation Conditions

- (1) The construction should be well managed and supervised by a Japanese contractor to maintain the quality and tight schedule, especially with works by methods not common in Cambodia.

- (2) A Japanese contractor will be the prime contractor in accordance with the Japan's Grant Aid scheme and they will undertake the construction by letting the works to the local contractors. Local workers will normally be employed by the local contractor and supervised. Therefore, it is necessary to employ efficient supervisors, and provide suitable labor control and site supervision in order to achieve effective construction and to minimize losses. On the above condition, schedule control should be carefully monitored in order to have effective coordination arrangement of workers not to cause delays.
- (3) May to October is the rainy season in Cambodia. For construction planning, the earthworks, substructure and superstructure works should consider the season and be scheduled and completed before or after the rainy season.
- (4) The Cambodian laws, codes and standards and Japanese standards should be followed. However, American Society for Testing and Materials (ASTM), British Standards (BS), etc., may also be applied considering the local condition.
- (5) Close and detailed monitoring and coordination of schedules is required particularly between the facilities construction work and the period of installation of the equipment.
- (6) The project site is located in the campus of RUPP, and IFL is close to the west side of this site, consideration of the surrounding environment during construction is required as shown below.
 - 1) The construction method which has the minimum influence to the adjacent RUPP facilities should be adopted. Construction methods to minimize noise pollution and air pollution should also be adopted.
 - 2) Safety measures against construction vehicles which carry building materials are required. Also, damage to the existing road should be prevented.
 - 3) A temporary yard and temporary buildings for the construction work will be planned within the site. Therefore, safety measures must be taken not to expose the RUPP staff and students to any danger during the construction.

2-2-4-3 Scope of Works

The responsibilities between the Japanese side and the Cambodian side for the implementation of Japan's Grant Aid Project are shown in the table below.

Table 2-16 Extent of Works

Portions by the Japanese Side	Portions by the Cambodian Side
<p>(1) Building Works: Structural works, finishing works, furniture, etc.</p> <p>(2) Electrical Works: Power trunk facilities, lighting, power outlets, P/A systems, etc.</p> <p>(3) Utilities and Facilities</p> <p>1) Water Supply: Providing water tanks, pumps and related internal piping work</p> <p>2) Sewerage system including piping works up to the connection manhole</p> <p>3) Sewage treatment plant</p> <p>4) Fire-hydrant and extinguishing facilities</p> <p>5) Electrical supply and transformer system, cabling work from main switchgear panel to the facilities.</p> <p>6) Telecommunication system: Providing a new PABX, MDF, telephones and wiring work</p> <p>7) Lightning Protection System</p> <p>8) Lightning system in the site</p> <p>9) Air conditioning system</p> <p>10) Mechanical ventilation system</p> <p>(4) Exterior Work: Road, path and parking lots within the site</p> <p>(5) Electric Room, Electric Generator Room, Pump Room</p>	<p>(1) Site Preparation</p> <p>1) Ground preparation works: - Clearing the Site (such as demolishing and moving trees and root, motorbike parking and fence, lighting poles, flag pole and base, garden.) - Replacement of approach road for the new path - Soil-filling and leveling of the Site</p> <p>2) Temporary power and water supply for the construction</p> <p>3) Access road -Extension of entrance road and gate including guard house.</p> <p>(2) External Works:</p> <p>1) Landscaping, planting, etc., in the Site</p> <p>(3) Utilities and Facilities</p> <p>1) Water Supply - Providing potable water supply</p> <p>2) Waste Drainage - Providing connecting point to the existing sewerage network.</p> <p>3) Electrical Work - Relocating the existing lighting and electrical poles - Providing low voltage power supply and paying the charge</p> <p>4) Telecommunication Work - Providing new telephone lines and paying the charge</p> <p>(4) Furniture not included in the portion by the Japanese side</p> <p>(5) Other Procedures 1) Other Procedures - Procedures of the permission and approval to the Royal Government of Cambodia 2) Building permission application procedures, all service line connection application procedures, duty free procedures and customs clearance procedures 3) Commission to A/P</p> <p>(6) Expenses for the maintenance, administration, and management</p> <p>(7) Tax exemption and necessary preferential treatment for the construction staff from Japan or a third country</p> <p>(8) Smooth entry, re-entry and departure from Cambodia for the Japanese technical staff</p> <p>(9) All the expenses, other than those to be borne by Japan's Grant Aid within the scope of the Project</p>

2-2-4-4 Consultant Supervision

(1) Basic Policy

A consultant supervisor (a professional in the field of architecture) is dispatched to coordinate the architectural, mechanical and electrical works. Also, technical engineers are dispatched to supervise the important stages of structural, electrical and mechanical

works, etc. A resident engineer is dispatched to supervise and inspect during important stages such as beginning of construction, the structure works, the completion and final inspection.

Table 2-17 Plan of Personnel Necessary for Supervision

Supervisor	Period (Month)
Supervisor (Architecture)	12
Resident Engineer	Approx. 0.67
Building construction (Architectural engineers)	Approx. 0.93
Building construction (Structural engineers)	Approx. 0.33
Building construction (Electrical and Mechanical engineers)	Approx. 1.0

The supervision works are to control the construction schedule monitoring and supervising construction method, the number of laborer and procurement of construction materials and equipment. At the same time, quality of materials and construction work, control of construction cost and security for workers shall be included. If the construction work being carried out by the Cambodian side is found to be delayed, the consultant may urge acceleration of the construction work. Furthermore, a suitable construction schedule will be planned in consideration of the construction and procurement arrangement as mentioned in 2-2-4-2.

(2) Contents of Consultant Assignment in Cambodia and Japan

The scope of the works for the supervisor at the project site is to check and approve the construction plans and drawings, management of the construction schedule to monitor building construction and procurement and installation of equipment. The scope of the works for the supervisor in Japan is quality control for building construction methods and materials and design through reports by the supervisor at the project site, reporting progress of the construction work to JICA, and inspection of equipment procured from Japan in factories before shipment.

(3) Issuance of Certificates

The certificates on export of construction materials and equipment, the payment for construction, practical completion and final completion, etc., are issued.

(4) Submission of Reports, etc.

Checking and approving monthly progress reports, completion documents and photos of works from the contractor and submitting to the Royal Government of Cambodia and JICA.

The completion report shall be prepared and submitted to JICA in accordance with the Grant Aid guidelines.

(5) Others

Help expedite and monitor the schedule of works to achieve smooth operation of related works executed by the Royal Government of Cambodia, as necessary.

2-2-4-5 Quality Control Plan

(1) Basic Policy

The Detailed Design drawings shall be developed based on the studies analyzed from actual circumstances in Cambodia, maintenance cost, use of local materials and local construction methods. The specification should comply with the Cambodian construction standards, Japanese Regulations such as Japanese Architectural Standard Specification (JASS), BS and ASTM to ensure the quality of buildings, utilities and equipment. The construction plan, implementation schedule and shop-drawings which are to be submitted by the contractor during the construction period shall be examined and approved by the consultant.

(2) Quality Examination

The Consultant shall examine the implementation plan submitted by the Contractor prior to the commencement of each stage of the works, and approve it if the construction materials and the execution methods conform to the Specification. The Consultant should inspect necessary portions of work based on the implementation plan and Specifications.

Quality assurance inspections of the materials for approval or the execution of work are essential. The manufacturers' warranty on the products shall be sufficient to keep the quality required in the specifications which comply to Codes and Regulations related to developed nations mentioned above.

1) Earthwork

According to the soil investigation report which was made in the Basic Design Study, the ground condition of the project site is satisfactory. The progress schedule should be examined to include the rainy season in order to assure safety and schedule delays.

2) Reinforcing Bar Work

The Mill-Sheet and so on, showing re-bar content submitted by the Contractor should be confirmed by the Consultant. Also bar quality and strength should be inspected to match yield strength in the specification.

3) Concrete Work

There are 3 ready mixed concrete plants in Phnom Penh city. They are at a distance of one hour by car from the project site and the production capacity, the storage condition and the quality control are acceptable. Therefore, ready mixed concrete shall be adopted for the strength categories required by this report under structural design. The important items for the supervision works are as follows:

A. Items to be inspected for concrete material

Material	Item to be inspected	Method of inspection
Cement	Hydration Heat	Dissolution Heat
Sand/ Gravel/ Crushed Stone	Grading	Sieve analysis
	Absolute dry specific gravity	Specific gravity & ratio of water absorption
	Alkali aggregate reaction	Alkali aggregate reaction test
Water	Organic impurities	Quality test of water

B. Items to be inspected for the mixing test

Item to be inspected	Method of inspection
Estimate test for structural concrete	Compression test machine
Slump	Slump cone
Concrete humidity	Hygrometer
Air content	Manometer
Chloride volume	Measuring instrument for salt

C. Items to be inspected for the concrete placing

Item to be inspected	Method of inspection
Time from mixing to completion of concrete placing	Check time of completion of concrete placing (one hr. or less)
Slump	Slump cone
Concrete humidity	Hygrometer
Air content	Manometer
Chloride volume	Measuring instrument for salt

D. Items to be inspected in the progress schedule (Inspection for the accuracy of concrete placing)

Item to be inspected	Method of inspection
Estimate test for structural concrete	Compression test machine
Accuracy for the openings of door & windows	Measurement
Accuracy for horizontal level of concrete slab	Spirit level & measurement
Status of Finishing	Visual inspection

2-2-4-6 Procurement Plan

(1) Procurement Plan for Building Construction

Local materials shall be used as much as possible and the basic policy shall be to reduce cost and to select materials that will have the best quality with low maintenance costs.

The division of procurement of construction materials is as shown in the following Table 2-18. As shown, most of the materials can be obtained in Cambodia. However, most of materials for structural and finishing materials come from neighboring countries such as Thailand. So it should be confirmed that there are no problems with respect to material quality and production quantity from its locality of procurement.

Table 2-18 Procurement Situation of Construction Materials

Name of material	Locally Produced	From Japan	From Third Country	Remarks
Construction materials				
Sand/Gravel	○			
Cement	○			
Bricks	○			
Form/Timber	○			
Re-bar	○			
Steel frames			○	Thailand
Concrete Blocks	○			
Roof materials	○			
Wood Fittings, Metal Fittings	○		○	Metal Fittings from Thailand
Tiles	○			
Waterproof Agent	○			
Paint	○			
Drop curtain, Baton		○		
Stone	○			
System ceiling	○			
Wood floor	○			
Aluminum sash			○	Thailand
Electric Materials				
Electric Cable/Conduit			○	Thailand
Distribution Panel Board			○	Ditto
Lighting Appliances			○	Ditto
Wiring Equipment			○	Ditto
Communication Appliance			○	Thailand, a part from Japan
Public Address Equipment		○		Ditto
Utility Materials				
Pumps			○	Thailand
Elevated Reservoir Tank			○	Ditto
Pipes/Valves			○	Ditto
Sanitary Fixtures		○	○	Thailand, a part from Japan
Air conditioner and Fan		○	○	Ditto
Equipment				
Lobby Display System		○		
AV system		○		
Furniture (Desk, Chair, etc.)	○		○	Ready-made furniture from Thailand

Table 2-19 Procurement Situation of Construction Equipment

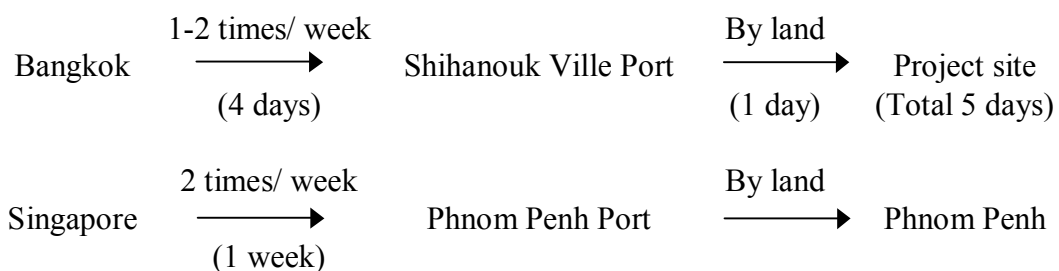
Name of equipment	Locally Produced	From Japan	From Third Country	Remarks
Back hoe	○			
Bulldozer	○			
Dump truck	○			
Vibrating roller	○			
Tamper	○			
Water pump	○			
Re-bar bender	○			
Concrete pumping car	○			
Welding machine	○			
Track crane (25t)	○			
Generator (50KVA)	○			
Temporary scaffolding	○			

(2) Transportation Plan

As for the procurement from Japan or third countries, approximately one month for custom clearance (from document submission to finalizing) is anticipated and such time should be considered part of the overall schedule. The transportation means and time are as follows:

1) Transportation by sea

There are two routes for transportation by sea, one from Shihanouk Ville Port, and the other from Phnom Penh Port. Through Phnom Penh Port is closer to the site, only Shihanouk Ville Port has the facility for landing of containers, and therefore, this port will mainly be used. The procedure for customs clearance at port takes almost one week. The schedule and expected transportation routes are described as follows:



The transportation from Japan by sea will take about 10 or 15 days. The domestic land route from above mentioned ports to the project site is in good condition for transportation.

2) Transportation by land

As a result of the Basic Design Study, the transportation route of construction materials and equipment will come from neighboring countries such as Thailand to Phnom Penh by land transportation. This project will also plan transportation by land. The transportation route from Thailand is as follows, and days required for transportation are about 4-10 days. However, during the rainy season in Cambodia, it will take about one month more to transport by land due to bad road conditions.

(Thailand) Bangkok → Aranyaprathet



(Cambodia) Poipet → Battambang → Phnom Penh

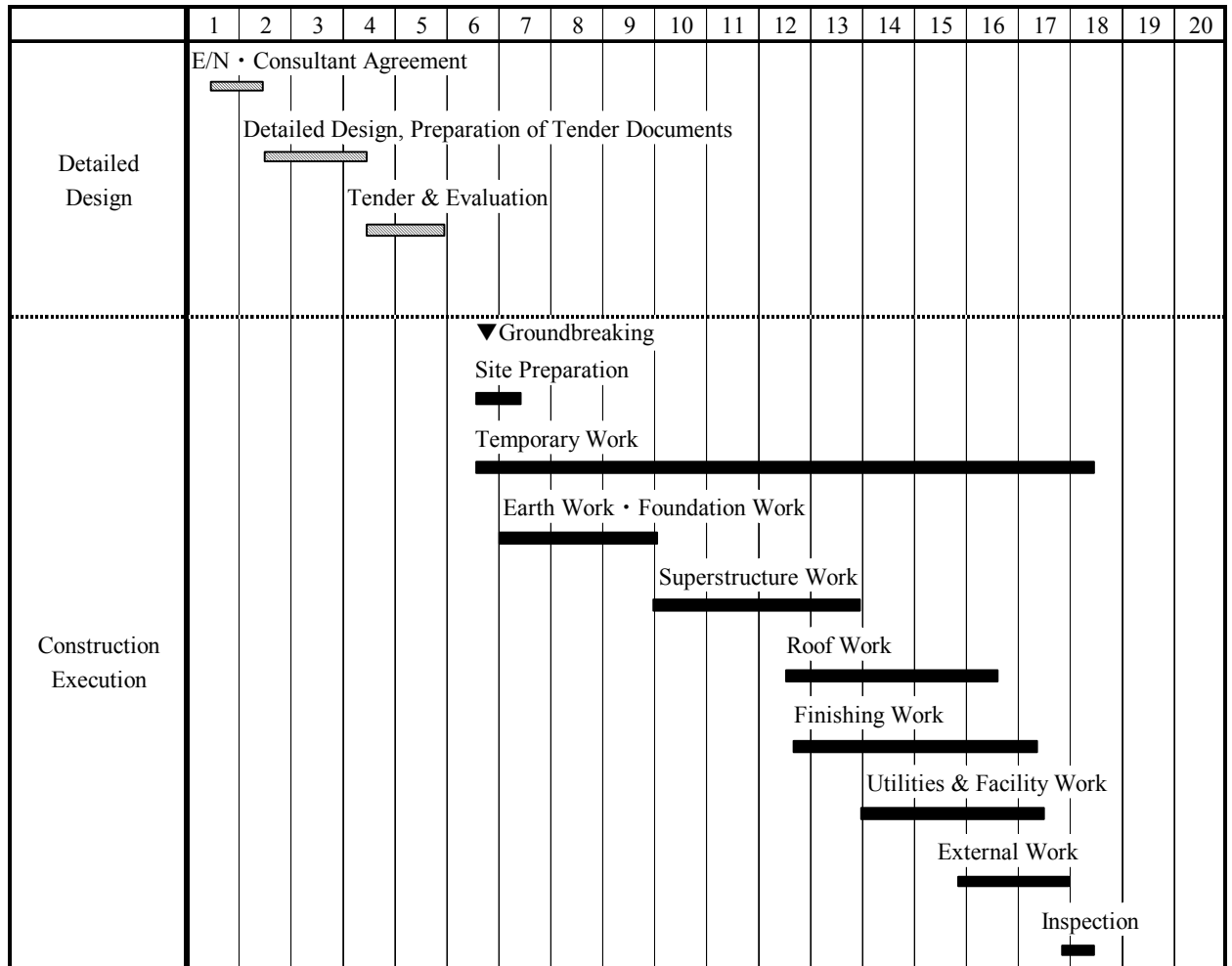
In this case, transshipment of freight is required at the border. Freight over 2t/pack are charged additionally due to the use of a special crane.

Work schedules should be made after taking into consideration safety, route conditions, and clearance, construction materials and equipment when procured.

2-2-4-7 Implementation Schedule

The tentative implementation schedule for the Project is expected as shown in Table 2-20.

Table 2-20 General Project Schedule



- 1) The influence of the rainy season to the superstructure work and finishing work is taken into consideration. The suitable time necessary for completion of plastering work is considered in order to avoid occurrence of cracks which may occur during the hot season depending on the humidity.

2-3 Obligations of the Cambodian side

In the case the Project is implemented, the Cambodian side will carry out the following scope of works, and it has been confirmed that the Cambodian side agree to execute their scope of works during the Basic Design Study.

(1) Responsibilities of the Cambodian side

1) Tax Exemption

- Under the Japan's Grant Aid Scheme, the equipment and materials purchased for the Project shall be tax free.
- Based on the contract that was verified, the equipment and service provided, and the Japanese who are involved in this Project shall be exempt from custom tariff, income tax and other domestic taxes.

2) Assistance with Entry Permit and Visa

- Based on the verified contract, assistance with entry permit and visa will be provided in Cambodia to the Japanese nationals who will be involved in this Project.

(2) Portions by the Cambodian Side

The portions, except "Table 2-16 Extent of works" by the Cambodian side are noted as follows:

1) Before Implementation

- Clearing the Site, such as demolishing and removing trees and roots, motorbike parking and fence, lighting poles, flag pole and base, garden and back-filling and leveling of the Site before the construction starts.
- Extending the existing gate (including guard house) and approach road for the access road to the Project site during the construction as necessary.
- Providing temporary power and water supply for the construction.

2) During Implementation

- Landscaping and planting, etc., in the Site.
- To purchase and install furniture, curtains and carpets, etc., for the new building, if necessary.

- Construct cabling or piping work for main feeder wiring, water supply and telephone line, etc., to the Site.
- To issue permissions and licenses, etc., necessary for the implementation of the Project, without delay.

3) After Implementation

- Securing the expense for the operation and maintenance of the facility should be available before completion of the Project.

In order to carry out the Project smoothly for the portions by the Cambodian side, sufficient explanation of the contents, schedule, etc., should be given. The budget for the portions by the Cambodian side should be prepared with a special budget of RUPP in the 2005. In order to facilitate the finish of construction in accordance with the schedule, the Cambodian side must complete their scope of works on schedule and coordinate their works with the Japanese side, in order to meet the final completion date. The Basic Design Study Team has also explained this importance. It is necessary for the Japanese side to monitor the progress in regard to this matter.

2-4 Project Operation Plan

(1) Maintenance and Operation Plan for Facilities

At this time, there are staff members in the Department of Finance at the RUPP that are mainly in charge of maintenance and operation of the utilities of RUPP. The staffs of the MoEYS are in charge of establishing new building and extension in the RUPP.

On the other hand, RUPP is outsourcing maintenance and operation of electrical utilities to EDC. They maintain and operate the electrical utilities in the facilities of RUPP from the low voltage line outside.

Hereafter, the maintenance and operation staff of this center will be secured by recruitment of Technical Cooperation Project side. Also, it was confirmed that the RUPP will prepare maintenance and operation staff through MoEYS. Education and training of the personnel in regard to implementation of the scheduled inspection or maintenance of relevant documents are necessary.

(2) Equipment/Operation, Maintenance and Management Plan

Planned equipment includes only some audiovisual equipment. If special repair is needed, the equipment manufacturer's service centers will be commissioned which are located in the neighboring countries such as Thailand or Singapore, so it is difficult to have repairs made promptly. Therefore, the education and training of the personnel to make maintenance repairs are necessary and required for the facility.

2-5 Cost Estimate of the Project

2-5-1 Cost Estimate of the Project

This cost estimate is provisional and would be further examined by the Government of Japan for the approval of the Grant. Under the conditions described in item (3), the cost breakdown of the Japanese side and the Cambodian side are as follows:

(1) Portions by the Japanese Side

Cost Estimate

Approximately 490 million Japanese yen

Item of expenditure		Cost Estimate (million yen)	
Facility	The CJCC Building (Seminar rooms, Library, Multi-purpose hall, etc.)	385	412
	Furniture	13	
	Equipment (AV system, Large-sized display system)	14	
Fee for Detail Design, Tender preparation and Site supervision		78	

(2) Portions by the Cambodian Side

Item of expenditure	Cost Estimate (US\$)
1) Site preparation	12,731.99
2) External Works	37,551.95
3) Utility and Facilities (electricity, telephone, etc.)	33,044.50
Total	83,328.44

(Approximately 9.0 million Japanese yen)

(3) Additional Conditions:

- 1) Time of the Cost Estimate : May, 2004
- 2) Exchange Rate : 1US\$ = 108.07 Japanese yen
- 3) Term of construction : 12.0 months
- 4) Others : This Project is implemented by Japan's Grant Aid Scheme.

2-5-2 Administration, Operation and Management Cost

(1) Expenses Required for CJCC

The running cost (expenses for water, power and fuel) for the CJCC are calculated as follows:

1) Electricity Cost

A. Assumption

Maximum Demand 120 kw

Load Factor 0.25

B. Tariff of Electricity Charge by Electricite du Cambodge (EDC)

Fixed Charge 0 US\$/ month

Demand Charge 0 US\$/ kw

Energy Charge 0.18 US\$/ kwh For Governmental Use

C. Monthly Electricity Cost

Fixed Charge = 0

Demand 120 kw × 0 US\$/ kw = 0

Energy 120 kw × 720 H/ month × 0.25 × 0.18 US\$/ kwh = 3,890

Total 3,890

(US\$/month)

D. Annual Electricity Cost

3,890 US\$/ month × 12 months/ year = 46,680
(US\$/year)

2) Telephone Cost

A. Assumption

Direct Line: 2 Lines

Trunk Line: 3 Lines

B. Tariff of Telephone Charge by Angkor Telephone Company

Local call charge 0.01 US\$/ min

Long distance charge (101~200 miles) 0.05 US\$/ min

International call charge 2.00 US\$/ min

C. Assumed call time

Local call 900 min/ month/ line

Long distance call 300 min/ month/ line

International call 150 min/ month/ line

D. Monthly Telephone Cost

Local call	900	×	0.01 US\$/ min	×	5 lines	=	50
Long distance call	300	×	0.05 US\$/ min	×	5 lines	=	80
International call	150	×	2.00 US\$/ min	×	2 lines	=	600
Total							730
							(US\$/ month)

E. Annual Telephone Cost

$$730 \text{ US$/ month} \times 12 \text{ months/ year} = 8,760 \text{ (US$/ year)}$$

3) Fuel Cost

A. Assumption

Conditions Stand-by Generator 100 KVA 3 ϕ 415V 50Hz: 1 No.

Fuel consumption: 26L/ hour

Assuming Two (2) hours running a week

B. Fuel cost

Diesel Fuel 0.45 US\$/ L

C. Annual Fuel Cost

$$26 \text{ L/hour} \times 2 \text{ hours/ week} \times 52 \text{ Weeks/ year} = 2,700 \text{ (L/ year)}$$

$$2,700 \text{ L/year} \times 0.45 \text{ US$/ L} = 1,220 \text{ (US$/ year)}$$

4) Data Communication Cost

※According to the Tariff of ONLINE

A. Inter-net Access Cost (Leased Line, SDSL 528kbps)	699 US\$/ month
Total	699 US\$/ month

B. Annual Data Communication Cost

699 US\$/ month	×	12 months/ year	=	8,390
Annual Fee				0
Total				8,390
				(US\$/ year)

5) Water Supply and Sewage Cost

A. Maximum consumption per day of water Supply and Sewage	14 cu.m/ day
B. Unit Cost for water Supply and Sewage	0.4 US\$/ cu.m
C. Annual Water and Sewage Cost	
14 cu.m/ day × 360days/ year × 0.6 × 0.4 US\$/ cu.m	= 1,210 (US\$/ Year)

6) Annual Running Cost

Electricity Cost	46,680
Telephone Cost	8,760
Fuel Cost	1,220
Data Communication Cost	8,390
Water Supply and Sewage Cost	1,210
Total	66,260
Approximately	67,000 (US\$/ year)

CHAPTER 3
PROJECT EVALUATION AND
RECOMMENDATIONS

CHAPTER 3 PROJECT EVALUATION AND RECOMMENDATIONS

3-1 Project Effects

(1) Direct Effects

- 1) By preparing and establishing seminar and computer rooms necessary to hold HRD Courses and Japanese Language Courses, it will become possible to implement the required curriculum for Japanese language education and to introduce competent and capable personnel who will, eventually, contribute to the positive realization of a market economy.
- 2) By preparing and establishing a room for exchange program and Japanese-style room, it will become possible to carry out programs and activities which will contribute to promote cultural exchange between Cambodia and Japan.
- 3) By preparing and establishing a multi-purpose hall, it will become possible to hold Japanese speech contests, show Japanese movies, hold various lecture meetings and all sorts of exhibitions, workshops, etc., based at the CJCC which are now held at the Japanese Embassy or other rental facilities.
- 4) By preparing and establishing a library which can accommodate approximately 5,000 to 6,000 books related to Japan, economy, etc., as well as providing reading space, it will become possible to make public and to gather information at the CJCC which will provide required information to visitors as well as exchange information based thereat.

(2) Indirect Effects

- 1) By planning facilities established and maintained under the Project activities related to Japanese language education, market economy and exchange between Cambodia and Japan, it is expected that CJCC will play the main role in academic and culture exchange between the two nations.
- 2) By planning facilities established and maintained under the Project activities related to Japanese language education, market economy and exchange between Cambodia and Japan, it is expected that intensification of human resources engaged in various sectors

of the Cambodian society such as more people learning about Japan and their language, improved capability of Japanese language teachers becoming available, development of competent and capable persons who contribute towards promoting market economy, etc., can be realized.

- 3) Again, by planning facilities established and maintained under the Project activities related to Japanese language education, market economy and exchange between Cambodia and Japan, all sorts of interchanges at various levels such as state level, academic exchange, private sector exchange, etc., will materialize facilitating mutual understanding between the two countries.
- 4) Through planning facilities established and maintained under the Project and by the CJCC, strengthening cooperation between other Japan Centers in Asian nations and through various activities, information exchange between Japan and other nations all over Asia, will most likely, promote and strengthen mutual understanding between each country as well as intensifying promotion of human resources of each nation concerned.

Table 3-1 Summary of Effect and Improvement through the Project

Current situation and existing problems	Activities of the Project	Effect and improvement
1. It is possible to study about the market economy which is systematically in the business and management courses by thirteen universities under MoEYS in Cambodia. However, there is a necessity for all the universities to create their own independent profit in order to eventually overcome degradation of quality in each course. It is a matter of great urgency to improve educational environment with limited student attendance, shortage of number and quality of lecturers etc.	A seminar room required for HRD courses, a computer room, a multi-purpose hall, and a library are improved by implementation of this Project.	It is expected that the human resources who respond to market economy in Cambodia be developed to 1,460 persons every year by implementation of the HRD Courses such as Mini Business & Management course I & II (45 persons x 4 time/year), an Entrepreneur Incubating course I & II (40 person x 2 time/year), and a Seminar Type or Incentive short-term course (300 persons x 4 time/year).
2. For promotion of the mutual understanding between Cambodia and Japan, a Japanese speech contest, a Japanese movies, various lecture meetings, various shows, the workshop, etc., have been held at the Japanese embassy or other rental facilities. Now it is urgent and necessary to hold above programs at one location.	A multi-purpose hall, a room for exchange program, a Japanese-style room, an exhibition space, and a seminar room for Japanese language courses are improved by implementation of this Project.	It becomes possible to carry out each exchange programs by this center to provide a base. Moreover, the increase in those who study Japan and Japanese language, and the number of Japanese language teachers and improvement in quality teaching methods are expected. The exchange in various fields levels, such as exchange on the national level of two countries, exchange between arts and sciences, and exchange in the private sector, are realized, and mutual understanding is promoted.

3-2 Recommendations

In conclusion, the recommendations relative to executing this Project are described below.

(1) Establishment of Management Organizations in the CJCC by the Cambodian side

Although management and operation of the presently planned CJCC will take the form of joint management between Japan's Technical Cooperation Project and Cambodia, it is expected to be largely dependent on those involved in the Technical Cooperation Project. The Cambodian side is now in the course of selecting staff to operate and manage the Center and it is considered that establishing the Cambodia management system will, in the real sense, lead to educational, economic and culture exchange between both nations and substantial joint activity by staff of both nations. Therefore, establishing the Cambodia management system both in respect to human resources and financial aspects through the Technical Cooperation Project will be required.

(2) Establishment of CJCC Functions

The CJCC will aim at establishing the function as the central organ within Cambodia for exchange between Cambodia and Japan. In regard to the future with the Center at the core, there is ample room to scrutinize plans, to expand activities through cooperation and exchange with other universities and research institutes such as implementing scientific activity cooperation with each faculty, etc., of RUPP where the CJCC is situated. Therefore, whilst constantly paying close attention to the Cambodian national educational plans and to the direction in which the market economy is heading, by scrutinizing the role at the Center amidst such circumstance, it is felt that expanding the functions of the central player and making it function more effectively will indeed be possible.

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**Member List of the Basic Design Study
on the Project for Construction of the Cambodia - Japan Cooperation Center
in the Kingdom of Cambodia**

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Basic Design Study (November 17, 2003 – December 14, 2003)

No	Date	Member & Movement	Activity
1	Nov 17 (Mon)	<u>NRT18:05→22:20HAN(JL751)</u> (B) <u>NRT10:55→15:55BKK(JL717)</u> <u>BKK18:30→19:35PNH(PG926)</u> (C,D,E,F,G,H)	21:30-22:30 Meeting with TCP Study Team
2	Nov 18(Tue)	(B) (C,D,E,F,G,H) (C,D) (E,F,G,H)	Meeting with JICA Vietnam Office Site Survey at Vietnam-Japan Human Resources Cooperation Center (Hanoi) 09:00-10:00 Site Survey 10:00-12:00 Courtesy Call and Meeting with RUPP 14:30-17:30 Meeting with TCP 14:30-15:30 Meeting with RUPP 15:30-17:00 Site Survey
3	Nov 19 (Wed)	<u>HAN08:00→10:00SGN(VN211)</u> (B) (C,D,E,F,G,H)	Site Survey at Vietnam-Japan Human Resources Cooperation Center (Ho Chi Minh City) 09:30-12:00 Meeting with RUPP 14:30-17:00 Site Survey
4	Nov 20(Thu)	<u>SGN14:00→14:40PNH(VN840)</u> (B) (C,D,E,F,G,H) (B,C,D,E,F,G,H)	08:00-11:30 Site Survey 14:00-15:00 Meeting with RUPP 16:30-18:30 Meeting with JICA
5	Nov 21(Fri)	(B,C,E,G,H) (D,F) (B,C,D,E,G,H) (F)	08:00-10:20 Meeting with JICA Cambodia Office 10:30-12:00 Meeting with RUPP 08:00-12:00 Natural Condition Survey 14:00-15:00 Internal Meeting 15:30-16:30 Courtesy Call on MoEYS 14:00-17:00 Natural Condition Survey
6	Nov 22 (Sat)	<u>PNH7:15→8:00SiemReap/FT990</u> (B) (C,D) (E) (F) (G,H) (C,D,E,F,G,H)	Site Survey at ODA project in Siem Reap Data analysis 09:00-12:00 Site Survey 09:00-12:00 Natural Condition Survey 09:00-11:00 Survey of relevant facilities 15:30-18:00 Survey of Centre Culturel Francais
7	Nov 23 (Sun)	<u>SiemReap16:50→17:40PNH/FT997</u> (B) (C,D,E,F,G,H)	Site Survey at ODA project in Siem Reap Data analysis & Internal Meeting
8	Nov 24 (Mon)	(B,C,G,H) (D) (E) (F) (B) (C,D,E,F,G,H)	08:00-10:00 Meeting with TCP (Signing of M/M) 10:00-10:30 Meeting with SC 11:00-11:30 Site Survey at Japanese Embassy Hall 09:00-12:00 Site Survey 09:00-12:00 Survey of Infrastructure 09:00-12:00 Natural Condition Survey (PM) Meeting with JICA (PM) Internal Meeting
9	Nov 25(Tue)	(B,C,E,F,H) (D) (G)	08:30-10:00 Courtesy Call on and Survey at NIM 10:30-11:30 Courtesy Call on and Survey at RULE 14:30-17:00 Meeting with RUPP 09:00-17:00 Making a Tentative Plan 09:00-17:00 Procurement Survey

No	Date	Member & Movement	Activity
10	Nov 26(Wed)	(B,C,D,E,G,H) (F) <u>NRT10:55→15:55BKK(JL717)</u> <u>BKK17:30→18:45PNH(PG926)</u> (A) (A,B,C,D,E,F,G,H)	09:00-17:00 Meeting with RUPP 09:00-17:00 Survey of Local Construction Site 20:30-22:00 Internal Meeting
11	Nov 27(Thu)	(A,B) (C,D,E,H) (F) (G) (A,B,C,E,H) (D) (G)	09:00-9:30 Meeting with JICA 09:00-12:00 Meeting with RUPP 09:00-17:00 Survey of Local Construction Site 09:00-12:00 Survey of Materials Market 14:30-15:30 Meeting with MoEYS 16:00-17:00 Courtesy Call on Embassy of Japan 14:00-17:00 Making a Tentative Plan 14:30-17:00 Survey of Construction Site
12	Nov 28(Fri)	(C,D,G) (E) (F,H) (C,G)	(AM) Making a Tentative Plan 08:00-17:00 Procurement Survey 09:00-17:00 Survey of Local Construction Site 16:00-18:00 Site Survey
13	Nov 29(Sat)	(C,D,F) (E,G,H)	10:00-17:00 Making a Tentative Plan & Data analysis 10:00-16:00 Survey of Local Construction Site
14	Nov 30(Sun)	(A,B,C,D,E,F,G,H)	Data analysis & Internal Meeting
15	Dec 1 (Mon)	(E) (F) (C,D,E,G,H) (F)	10:00-11:00 Procurement Survey 08:00-12:00 Natural Condition Survey 14:30-17:00 Meeting with RUPP 14:00-17:00 Survey of Local Construction Site
16	Dec 2(Tue)	(E) (F) (C,D,E,G,H) (C,D,E,F,G,H)	09:00-12:00 Procurement Survey 09:00-12:00 Survey of Local Construction Site 11:00-12:00 Site Survey at National Maternal and Child Health Center 15:00-16:30 Site Survey at CENAT
17	Dec 3(Wed)	(A,B,C,D,E,F,G,H) (C,D,E,F,G,H) <u>PNH20:25→21:30BKK(TG699)</u> <u>BKK22:55→(JL704)</u> (B)	08:30-9:30 Meeting with RUPP 10:00-10:30 Signing of M/D with MoEYS & RUPP 11:00-12:00 Site Survey 14:30-15:30 Courtesy Call on and Meeting with Phnom Penh Municipality 15:30-16:00 Site Survey 16:00-17:00 Meeting with RUPP
18	Dec 4(Thu)	<u>→NRT06:35(JL704)</u> (B) (A,C,H) (D,E) (F) (G) (C,D,E,F,G,H) <u>PNH20:25→21:30BKK(TG699)</u> <u>BKK22:55→(JL704)</u> (A)	11:20-12:00 Report to JICA 15:00-16:00 Report to Embassy of Japan 09:00-16:00 Making a Tentative Plan 09:00-16:00 Natural Condition Survey 09:00-16:00 Survey of Local Construction Site & Materials Market 16:00-17:00 Survey of relevant facilities

No	Date	Member & Movement	Activity
19	Dec 5(Fri)	→NRT06:35(JL704) (A) (C,F) (D) (E) (G,H)	10:00-16:00 Survey of Local Construction Site 09:00-17:00 Making a Tentative Plan 09:00-17:00 Procurement Survey 09:00-17:00 Survey of Local Construction Site & Materials Market
20	Dec 6(Sat)	(C,D,E,H) (G) (C,D,E,G,H) <u>PNH10:20→11:25BKK/TG697</u> (F) <u>PNH20:25→21:30BKK(TG699)</u> (C,E,H) <u>BKK22:55→(JL704)</u> (C,E,F,H)	09:00-12:00 Confirmation of Tentative Plan 09:00-12:00 Survey of Local Construction Site & Materials Market 15:00-16:00 Courtesy Call on Mr. Vann Molyvann 14:00-17:00 Survey of Local Construction Site
21	Dec 7(Sun)	→NRT06:35(JL704) (C,E,F,H) (D,G)	Data analysis & Internal Meeting
22	Dec 8(Mon)	(D,G)	09:00-12:00 Survey of Local Construction Site & Materials Market 14:30-18:00 Survey of relevant facilities
23	Dec 9(Tue)	(D,G) (G)	10:30-12:15 Meeting with RUPP 14:00-16:00 Making a Tentative Plan 16:30-17:30 Meeting with TCP
24	Dec 10(Wed)	(D) (G)	(AM) Data analysis 10:00-16:00 Survey of Local Construction Site 17:00-18:00 Report to JICA
25	Dec 11(Thu)	(D,G)	08:30-09:30 Site Survey at NIM 10:00-11:30 Site Survey at RULE (PM) Survey of Local Construction Site & Materials Market
26	Dec 12(Fri)	<u>PNH10:20→11:25BKK/TG697</u> (D,G)	14:00-17:00 Survey of Local Construction Site & Materials Market
27	Dec 13(Sat)	(D,G) <u>BKK22:55→(JL704)</u> (D,G)	10:00-16:00 Survey of Materials Market 16:00-18:00 Survey of Local Construction Site
28	Dec 14(Sun)	→NRT06:35(JL704) (D,G)	

Remarks;

(JICA)

(Consultant)

Ishikawa

A: Mr. Nishimiya, B: Mr. Nishigata

C: Mr. Hatano, D: Mr. Nakamura, E: Mr. Kamagata, F: Mr. Goto, G: Mr. Koike, F: Mr.

Explanation on Draft Report (February 22, 2004 – March 7, 2004)

No	Date	Member & Movement	Activity
1	Feb 22 (Sun)	<u>NRT10:55→15:55BKK(JL717)</u> <u>BKK17:30→18:45PNH(TG698)</u> (B,C,D,E,F)	
2	Feb 23 (Mon)	(B,C,D,E,F)	10:00-11:00 Meeting with JICA Cambodia Office 14:30-15:00 Courtesy Call and Meeting with RUPP 15:30-16:00 Courtesy Call and Meeting with MoEYS
3	Feb 24 (Tue)	(B,C,D,E,F)	08:30-12:00 Meeting with MoEYS&RUPP 14:30-15:30 Courtesy Call and Meeting with EOJ
4	Feb 25 (Wed)	<u>NRT10:55→15:55BKK(JL717)</u> <u>BKK17:30→18:45PNH(TG698)</u> (A) (B,C,D,E,F)	08:30-17:00 Meeting with MoEYS&RUPP 20:00-21:30 Internal Meeting
5	Feb 26 (Thu)	(A,B,C,D,E,F)	10:00-10:45 Meeting with JICA Cambodia Office 11:00-12:00 Courtesy Call and Meeting with EOJ 15:00-16:00 Courtesy Call and Meeting with CDC
6	Feb 27 (Fri)	(A,B,C,E,F) (D) (A,B,C,D,E,F)	09:30-11:00 Meeting with RUPP 09:00-10:00 Meeting with EDC 10:30-11:30 Meeting with PPWA 16:30-17:30 Meeting and Signing of M/D
7	Feb 28 (Sat)	(A,B,C,D,E,F)	Internal Meeting & Data analysis
8	Feb 29 (Sun)	(A,B,C,D,E,F)	Internal Meeting & Data analysis
9	Mar 1 (Mon)	(A,B,C,D,E,F) (A,B) (C,D,E) (F)	10:00-12:30 Internal Meeting 14:00-15:00 Meeting with RUPP 15:00-16:00 Site Survey at Chaktomuk Theatre 16:30-17:30 Site Survey at CENAT 16:30-18:30 Meeting with RUPP & TCP 16:30-18:30 Site Survey
10	Mar 2 (Tue)	(A,B,C) (E,F) (A,B,F)	08:30-09:30 Courtesy Call and Meeting with MoEF 09:00-12:00 Procurement Survey 14:30-15:30 Report to EOJ
11	Mar 3 (Wed)	(B,C,E,F) (D) (D) (E,F)	08:30-09:30 Meeting with RUPP & TCP 09:00-10:00 Meeting with EDC 10:00-11:00 Meeting with MoPT 13:00-17:00 Procurement Survey
12	Mar 4 (Thu)	(B,C,D,E,F)	09:00-10:30 Courtesy Call on Mr. Vann Molyvann 11:00-11:30 Meeting with RUPP 14:30-15:30 Site Survey at Angkor Telecom Center 16:00-17:00 Meeting with TCP
13	Mar 5 (Fri)	(B,C,D,E,F) (A,B,C,D,E,F)	09:00-10:00 Site Survey at TVK 10:30-15:30 Meeting with RUPP & TCP, Site Survey 17:00-18:00 Report to JICA Cambodia Office
14	Mar 6(Sat)	(B,C,D,E,F) PNH20:25→21:30BKK(TG699) BKK22:55→(JL704) (B,C,D,E,F)	Internal Meeting & Data analysis
15	Mar 7 (Sun)	<u>→NRT06:35(JL704)</u> (B,C,D,E,F)	

Remarks) (JICA)

A: Mr. Arai

(Consultant) B: Mr. Hatano, C: Mr. Nakamura, D: Mr. Kamagata, E: Mr. Koike, F: Mr. Ishikawa

Basic Design Study (November 17, 2003 – December 14, 2003)

1. Embassy of Japan

Mr. Katsuhiro Shinohara	:	Minister
Mr. Kazumi Jigami	:	Counselor
Mr. Kazutaka Endo	:	Second Secretary
Ms. Mariko Yaoi	:	Special Advisor for Culture and Information Affairs
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Mr. Juro Chikaraishi	:	Resident Representative
Mr. Hiroto Mitsugi	:	Deputy Resident Representative
Mr. Chikahiro Masuda	:	Assistant Resident Representative
Mr. Kazuki Ishida	:	Project Coordinator
Ms. Saeko Noguchi	:	JOCV (Computer System Engineer)
3. Ministry of Education, Youth and Sport (MoEYS)

H.E. Im Sethy	:	Secretary of State
Mr. Yang Yano	:	Director, Cultural Relations and Scholarships Department
Mr. Chea Oeung	:	Deputy General Director of Administration and Finance
Mr. Chap Sophorn	:	Chief Office of Cooperation
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H.E. Pit Chamnan	:	Rector
Mr. Lav Chhiv Eav	:	Vice Rector
Mr. Ea Chumnith	:	Deputy Head of Accounting
Mr. Suong Sarun	:	Director of Finance
Mr. Chhun Yen	:	Administrator
Dr. Oum Ravy	:	Associate Professor (CJCC Director)
Mr. Ing Leng	:	Candidate, Master of Business Administration
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Dr. Mao Sokan	:	Director
Mr. Koem Oeurn	:	Senior Lecturer
Mr. Seang Nimorl	:	Teaching Staff, Japanese Language
Ms. Pauv Ampor	:	Teaching Staff, English
6. Cambodia Communication Institute (CCI)

Mr. Som Ratana	:	Administrator
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7. Ministry of Economy and Finance (MoEF)

Mr. Takeshi Nakano	:	Advisor to the Minister, JICA Expert on Development Policy/ Aid Management
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8. Council for the Development of Cambodia (CDC)

Ms. Harumi Okawa	:	Assistance Adjustment
Ms. Phana Veunida	:	Official
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Mr. Prom Daravuth	:	Vice Director, Department of Culture Techniques
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10. Ministry of Commerce (MoC)
Mr. Virak- Ou Proum : Deputy Chief of Trade Information & Publication Office
Export Promotion Department
11. Ministry of Tourism (MoT)
Mr. Kim Bunnara : Deputy Director of Education & Training Department
12. National Institute of Management (NIM)
Mr. Iv Thong : Rector
13. Royal University of Law and Economics (RULE)
Mr. Yuok Ngoy : Dean
14. Phnom Penh Municipality
Mr. Chev Kim Heng : Vice Governor
15. Phnom Penh Municipal Cable & MMDS TV
Mr. Pok Saravuth : Marketing Supervisor
Ms. Wu Xiebao : Staff
16. Electricite du Cambodge (EDC), Distribution & Transmission Dep.
Mr. Iv Visal : Deputy Director
17. Phnom Penh Water Authority, Planning & Technical Dep. (PPWA)
Mr. Ma Noravin : Vice Manager
18. Camintel S.A
Ms. Ros Rathseila : Sales Executive
19. Centre Culturel Francais
Mr. Guy Issanjou : Director
20. National Maternal and Child Health Center
Mr. Kazuhiro Kakimoto : Chief Advisor
Mr. Takeshi Matsuo : Medical Equipment Advisor
Mr. Yasuo Morikawa : Clinical Laboratory Advisor
Ms. Izumi Suzumori : Project Coordinator
21. National Tuberculosis Center (CENAT)
Mr. Kosuke Okada : Chief Advisor
Mr. Yuta Uchiyama : Drug Management Advisor
Mr. Masaru Iizuka : Project Coordinator
Mr. Saint Saly, MD, MHS : International Research Coordinator
22. Mr. Vann Molyvann
Mr. Vann Molyvann : Supreme Privy Counsellor to His Majesty the King
Senior Advisor to the Royal Government

Explanation on Draft Report (February 22, 2004 - March 7, 2004)

1. Embassy of Japan
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Mr. Hiroto Mitsugi : Deputy Resident Representative
Mr. Chikahiro Masuda : Assistant Resident Representative
3. Ministry of Education, Youth and Sport: MoEYS
H.E. Im Sethy : Secretary of State
Mr. Yang Yano : Director, Cultural Relations and Scholarships Department
Mr. Chea Oeung : Deputy General Director of Administration and Finance
Dr. Lim Sovanna : Chief Technical Engineer
Mr. Sar Sopheap : Staff, Construction Div.
Mr. Lor Lash : Director, DMSP
4. Royal University of Phnom Penh: RUPP
H.E. Pit Chamnan : Rector
Mr. Suong Sarun : Director of Finance
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Ms. Pauv Ampor : Exchange Program Course Manager
Mr. Ing Leng : HRD Course Manager
Mr. Seang Nimorl : Japanese Course Manager
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9. Phnom Penh Municipal Cable & MMDS TV
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10. Electricite du Cambodge: EDC, Distribution & Transmission Dep.
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11. Phnom Penh Water Authority, Planning & Technical Dep.: PPWA
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12. Camintel S.A
Ms. Ros Rathseila : Sales Executive
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Mr. Kunio Naito : SV, Advisor on Telephone Switching Engineering
Mr. Katsumi Murakami : SV, Transmission Engineering
14. The National Television of Cambodia
Mr. Koichi Sato : Expert, TV Production Advisor to TVK
Mr. Him Suong : Deputy General Director
15. Mr. Vann Molyvann
Mr. Vann Molyvann : Supreme Privy Counsellor to His Majesty the King
Senior Advisor to the Royal Government