



DRAWING REGISTER SYSTEM

by

MISS NUTNICH MUNSORRIRUK

Final Report of the Three - Credit Course
CS 6998 System Development Project

Submitted in Partial Fulfillment
of the Requirements for the Degree of
Master of Science
in Computer Information Systems
Assumption University

February 1997

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FEBRUARY, 1997.

Project Title : **Drawing Register System**
Name : **Miss Nutnicha Munborrirux**
Project Adviser : **Prof. Dr. Srisakdi Charmonman**
Academic Year : **1997.**

The Graduate School of Assumption University had approved this final report of the three credit course, CS 6998 System Development Project, submitted in partial fulfillment of the requirements for the degree of Master of Science in Computer Information Systems.

Approval Committee :



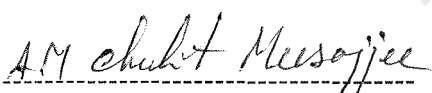
(Prof. Dr. Srisakdi Charmonman)

Adviser




(Dr. Sudhiporn Patumtaewapibal)

Member



(Air Marshal Dr. Chulit Meesajjee)

Member



(Assoc. Prof. Somchai Thayarnyong)

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Member

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Member

(Assoc. Prof. Somchai Thayarnyong)

Member

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ABSTRACT

This project is developed under the topic of Drawing Register System. The purpose of this project is to design computer-based information system for Drawing Register System to aid the processing of Engineer department and to solve several problems that caused by manual system.

Data flow diagram is used as a tool for structured analysis and design. The new system would provide on-line queried response and required reports to support Engineer department and Estimate department.



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1. INTRODUCTION

1.1 Background of the Project

Concrete Constructions (Thailand) Co.,Ltd. is a construction company. Its operation is to construct any kind of buildings such as Hotel, Resort, Department Store, and so on.

The company hired consultant companies in producing drawings for all construction projects. The drawings are distributed to each project site and they are recorded manually.

Since large number of drawings are recorded manually which caused several problems and difficulties in managing data so Drawing Register System is designed to be computer-based information system to provide accurate information to support Engineer Department and Estimate Department.

1.2 Objectives

The objective of this system development project are as follows :

1. To design a computer-based information system for Drawing Register System.
2. To provide accurate information and on-line queried response.
3. To control correctness of data.
4. To generate required report.

1.3 Scope of the Project

The scope of this project includes :

1. Analysis of the existing system
2. Design a new system including hardware and software.
3. Cost/benefit Analysis.
4. Security control and implementation plan.

1.4 Project Study Plan

The project has started on October 1,1996. It can be classified into three main steps as:

1. System Analysis
2. Detail Analysis and Design
3. Implementation plan

The project has been done according to the project time schedule which is represented in term of Gantt Chart as shown in Table 1.1, in the following page.

TABLE 1.1 : Project Time Schedule

| Activities | 1996 | | | | | | | | | | | | 1997 | | | | | | | |
|---|---------|---|---|---|----------|---|---|---|----------|---|---|---|---------|---|---|---|----------|---|---|---|
| | October | | | | November | | | | December | | | | January | | | | February | | | |
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| <u>SYSTEM ANALYSIS :</u> | | | | | | | | | | | | | | | | | | | | |
| - Context diagram of old system | x | | | | | | | | | | | | | | | | | | | |
| - Identify the area under study | | x | | | | | | | | | | | | | | | | | | |
| - Develop the physical DFD of the existing system | | x | x | | | | | | | | | | | | | | | | | |
| - Identify the contents of the existing data stores | | | | x | | | | | | | | | | | | | | | | |
| - Develop the logical DFD of the existing system | | | | | x | x | | | | | | | | | | | | | | |
| <u>DETAILS ANALYSIS & DESIGN :</u> | | | | | | | | | | | | | | | | | | | | |
| - Develop the logical DFD of the new system | | | | | | | x | x | | | | | | | | | | | | |
| - Identify the contents of the data stores for the new system | | | | | | | | | x | | | | | | | | | | | |
| - Data dictionary | | | | | | | | | | x | | | | | | | | | | |
| - Structure Chart | | | | | | | | | | | x | x | | | | | | | | |
| - Develop the physical DFD of the new system | | | | | | | | | | | | | x | x | | | | | | |
| <u>IMPLEMENTATION :</u> | | | | | | | | | | | | | | | | | | | | |
| - Pseudocode or Minispecification | | | | | | | | | | | | | x | x | x | | | | | |
| - Programming | | | | | | | | | | | | | | | x | x | x | | | |
| - Report Layout | | | | | | | | | | | | | | | x | x | | | | |
| - Screen Layout | | | | | | | | | | | | | | | x | | | | | |
| - Data Conversion | | | | | | | | | | | | | | | | | x | x | x | |
| - Testing | | | | | | | | | | | | | | | | | | x | x | |
| - Training | | | | | | | | | | | | | | | | | | | x | |
| - Acceptance Test | | | | | | | | | | | | | | | | | | | x | x |
| - Production | | | | | | | | | | | | | | | | | | | | x |
| - Documentation | | | | | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

2. EXISTING SYSTEM

2.1 Background of the Organization

Concrete Constructions (Thailand) Co.,Ltd. is an affiliate company of Concrete Constructions Group of Australia and Central Group of Companies in Thailand.

This company was started 5 years ago. There are many project sites. Each project site is managed and controlled by project manager. Each project site has 4 departments. They are Estimate department, Production department, Engineer department and Quality Control department.

The function and operation of all departments are described as follows :

- Estimate Department :

Commercial Manager is responsible for financial control and cost estimation.

- Production Department :

Construction manager is responsible for construction planning and control.

- Engineer Department :

Engineer manager is responsible for designing and development to support production department.

- Quality Control Department :

Quality Assurance manager is responsible for quality control.

The sub-organization chart of Concrete Constructions (Thailand) Co.,Ltd. is shown on Figure 2.1.

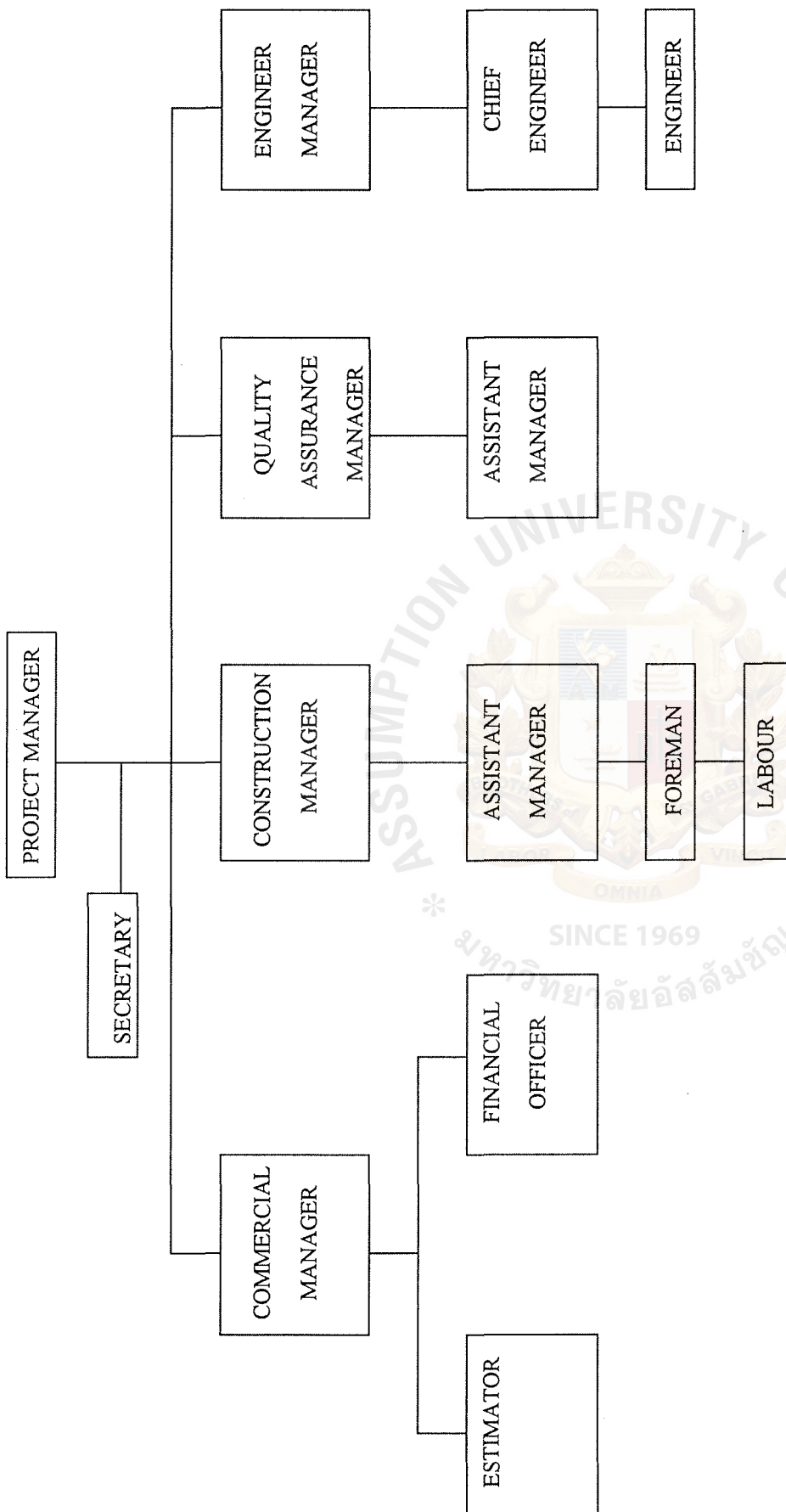


Figure 2.1 : Sub-organization chart of Concrete Constructions (Thailand) Co., Ltd

2.2 Existing Business Functions

The existing system can be summarized in form of Context diagram in Figure 2.2 and Data flow diagram in Figure 2.3 as shown on the following page.



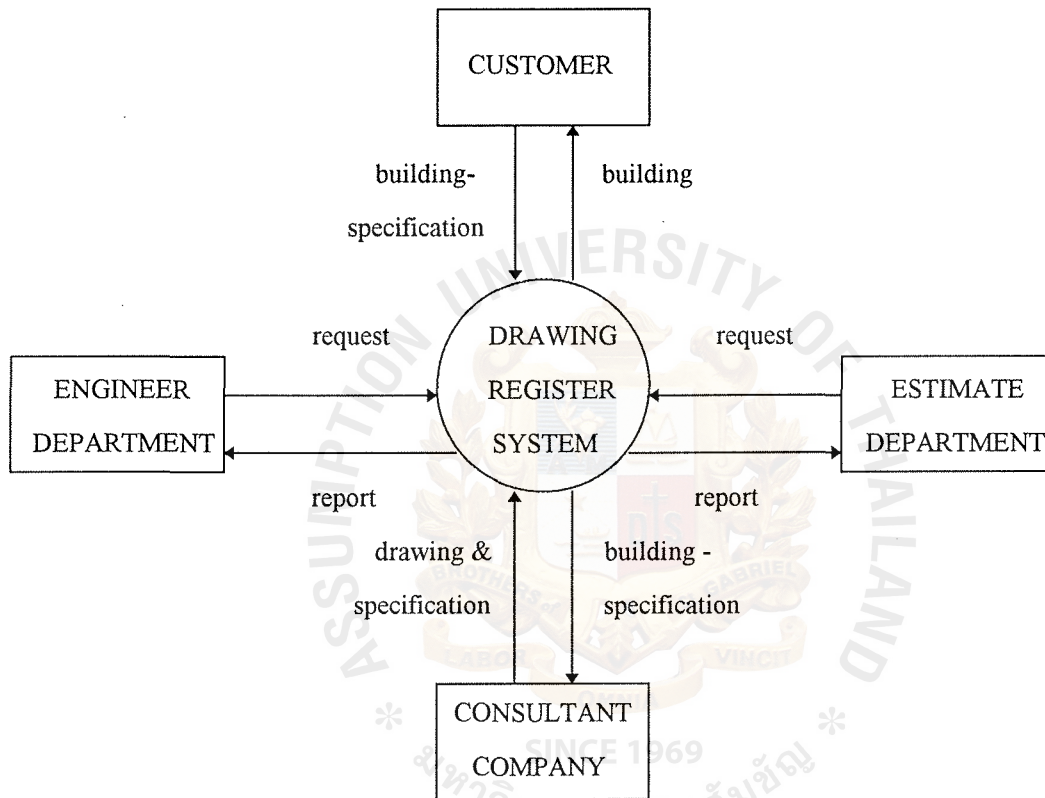


Figure 2.2 : Context Diagram (Existing System)

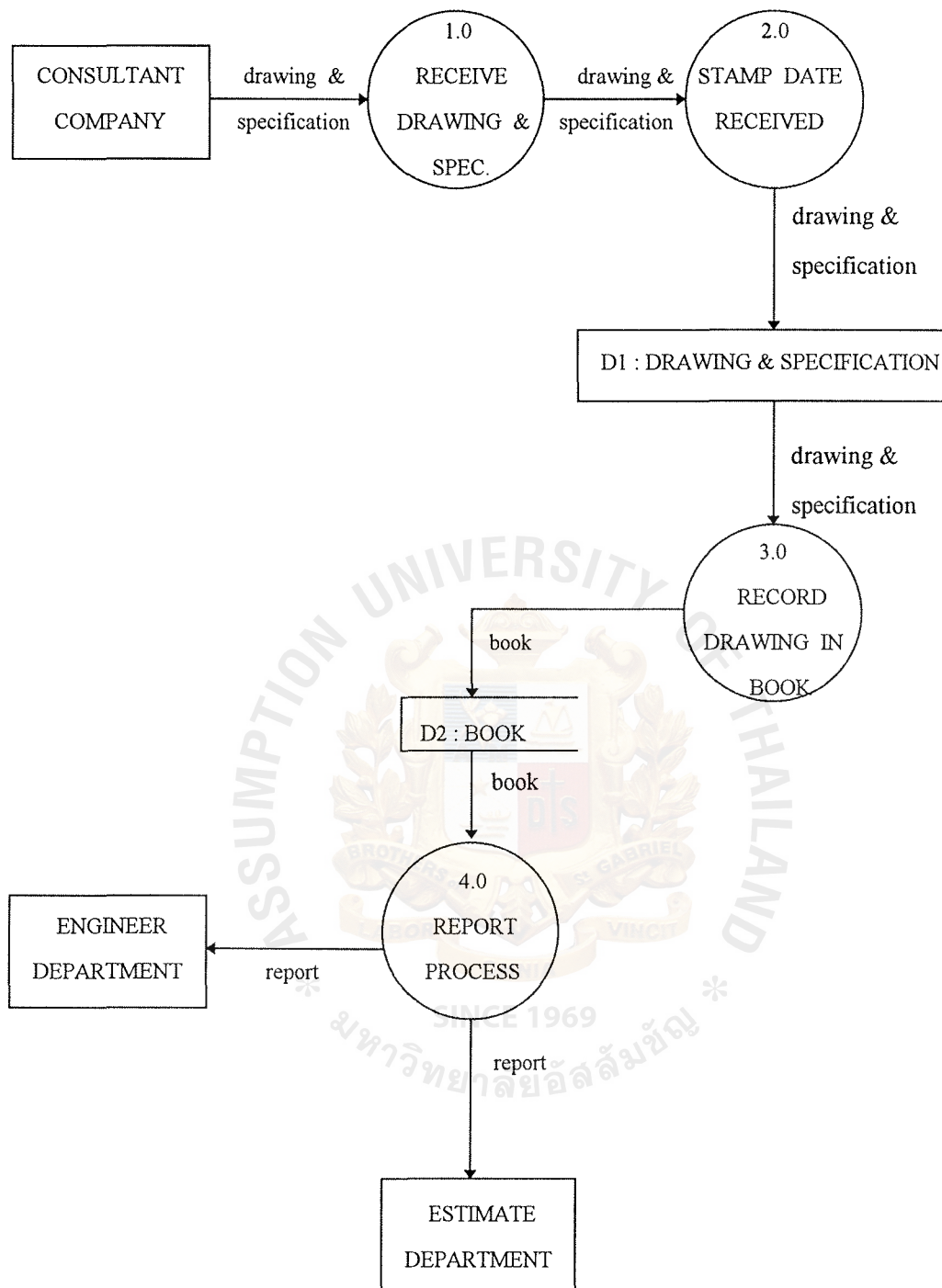


Figure 2.3 : Data Flow Diagram Level 0-(Existing System)

2.3 Current Problems and Areas for Improvements

In the existing system, it is controlled by manual system which caused several problems as follows:

1. Redundancy of data and duplication of works.
2. Take a lot of time in searching required data.
3. Lower speed in processing.
4. Difficulties in controlling correctness of data.



3. PROPOSED SYSTEM

3.1 User Requirement

After interviewing the user, the new system requirements can be stated as follows :

- On-line queried response
- Reports :
 - Drawing Register Report
 - Drawing Summary Report
 - Drawing History Report
 - Drawing Report by Consultant Company
 - Project Name Report
 - Location Name Report
 - Consultant Name Report
 - Status Name Report
 - Discipline Name Report
 - Recipient Report



3.2 System Design

3.2.1 New System Design

The objective of new system design is to solve users' problems by using a computer-based information system.

The context diagram of new system is shown on Figure 3.1 and the data flow diagrams are shown on Figure 3.2, Figure 3.3, Figure 3.4 and Figure 3.5. Also, Data Dictionary is shown in Appendix A.



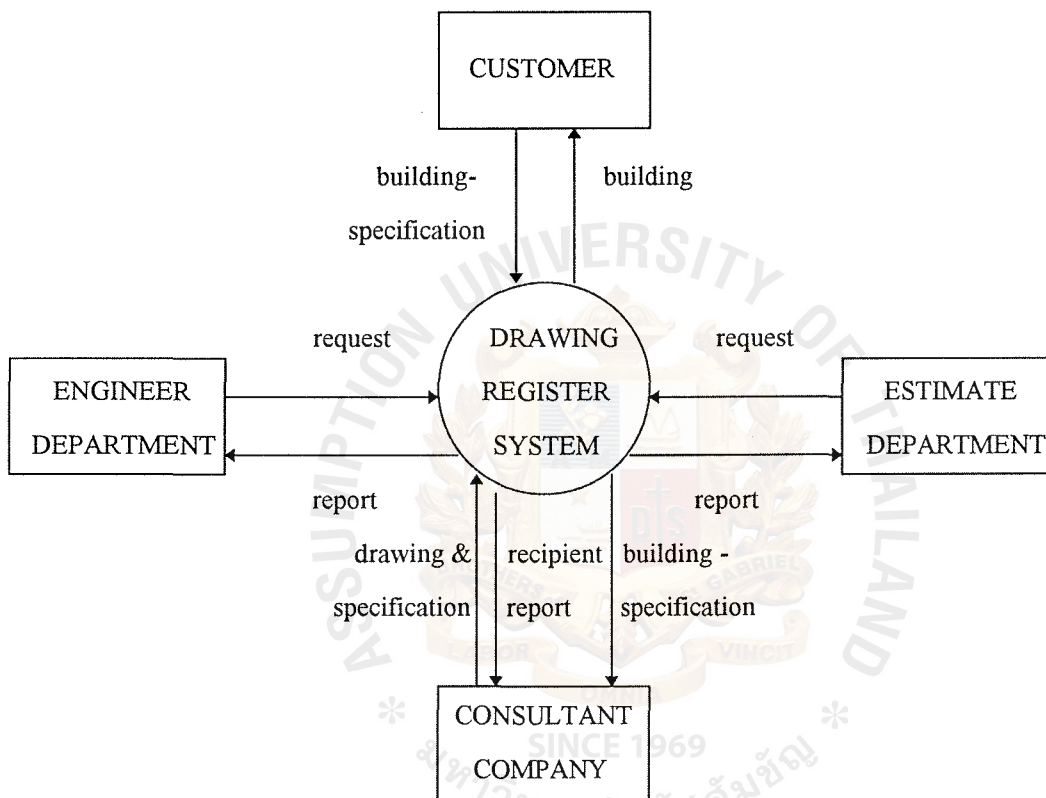


Figure 3.1 : Context Diagram (New System)

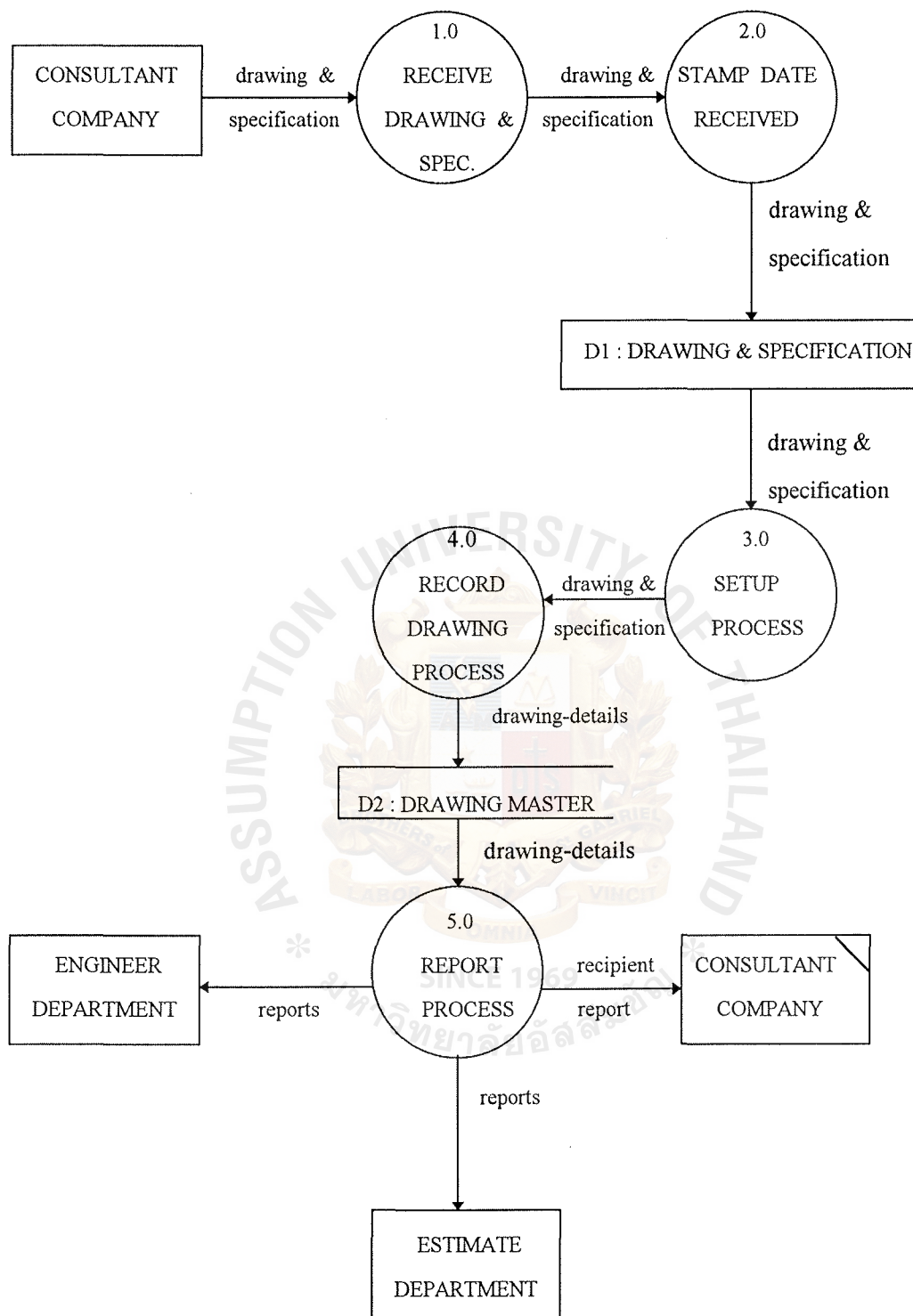


Figure 3.2 : Data Flow Diagram Level 0 (New System)

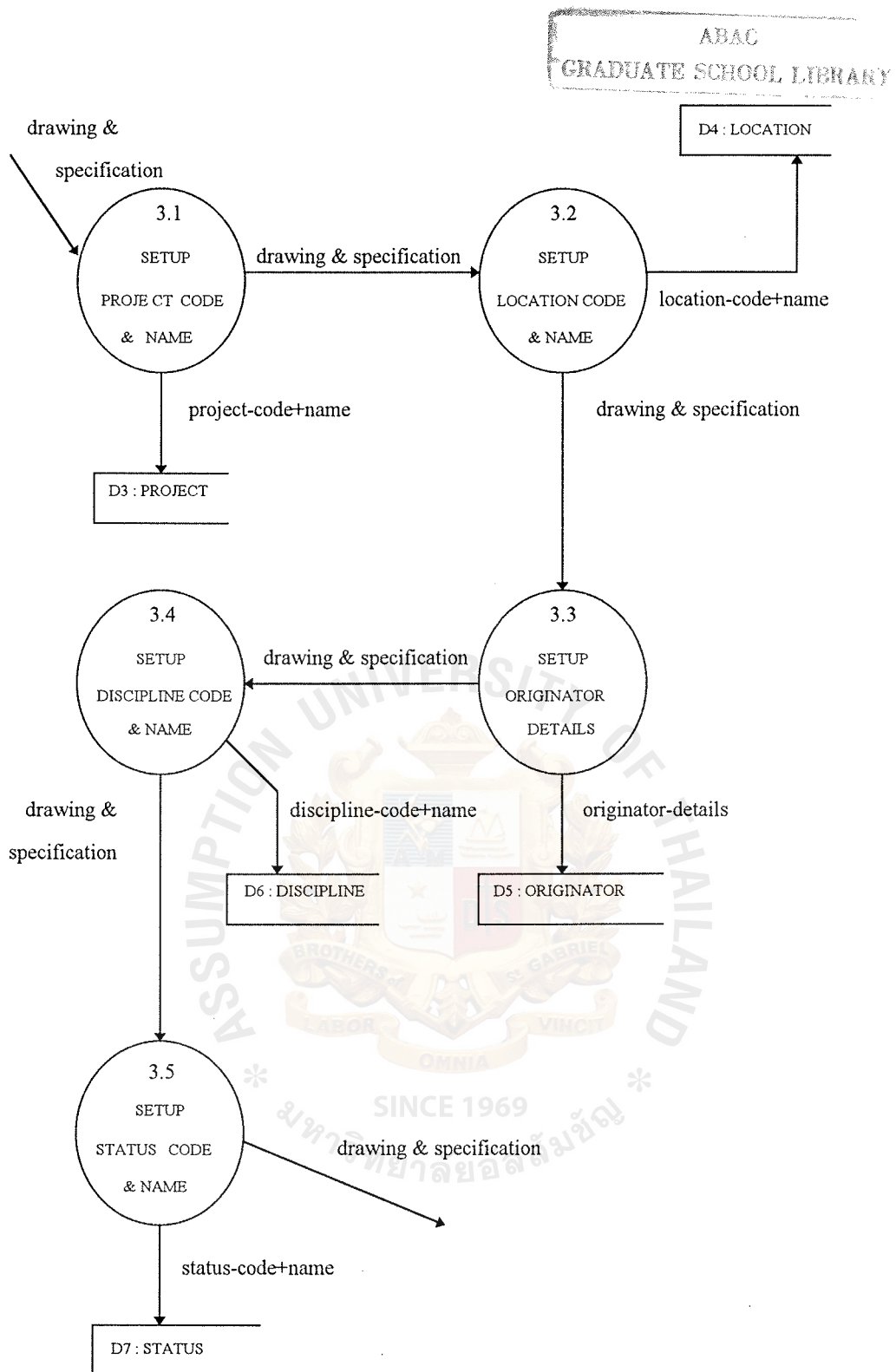


Figure 3.3 : Data Flow Diagram Level 1 (Process 3.0)

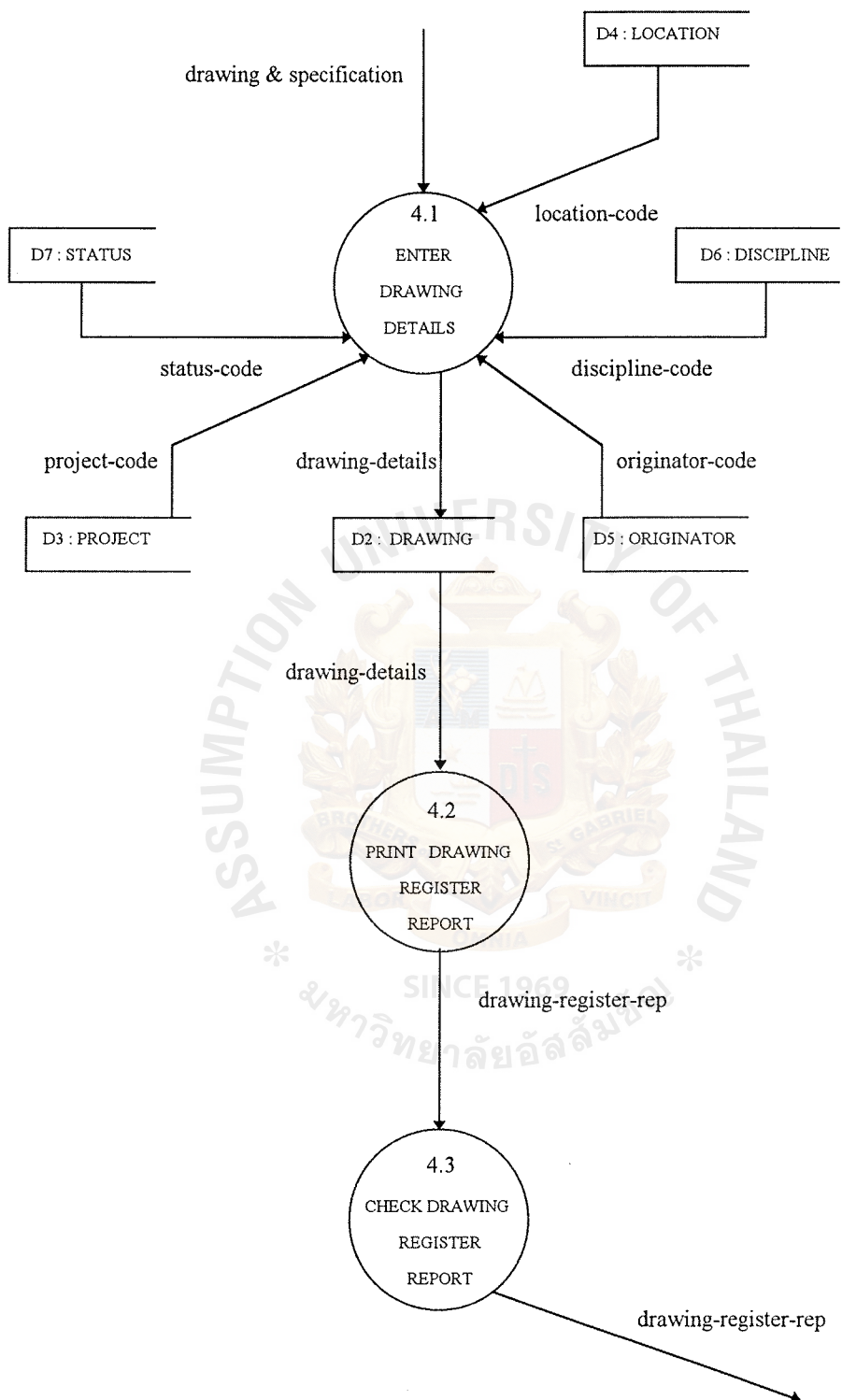


Figure 3.4 : Data Flow Diagram Level 1 (Process 4.0)

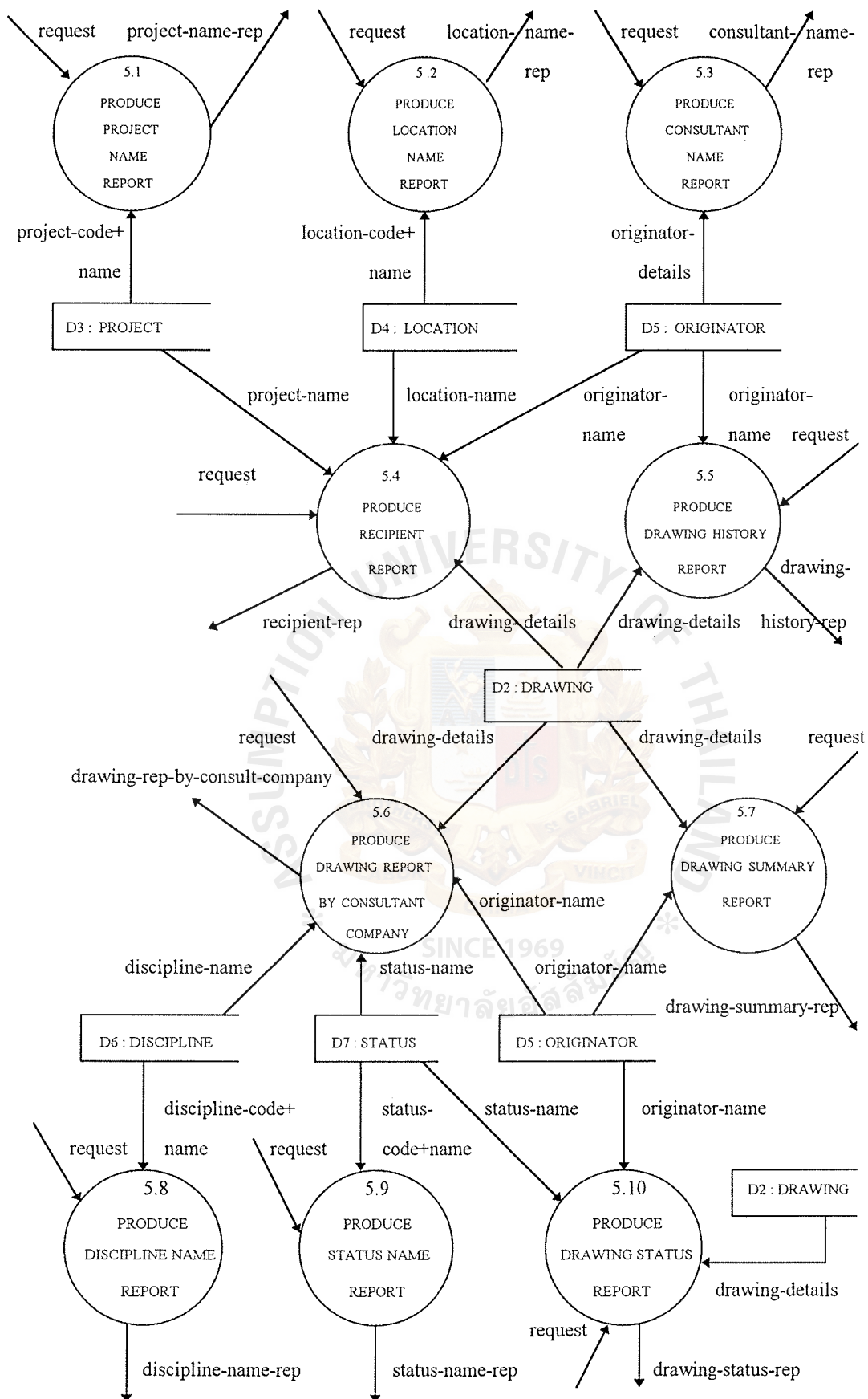


Figure 3.5 : Data Flow Diagram Level 1 (Process 5.0)

3.2.2 File Layout

There are 6 files applied in the new system. They are as follows :

- Drawing File
- Project File
- Status File
- Discipline File
- Location File
- Originator File

These files are shown in Table 3.1, Table 3.2, Table 3.3, Table 3.4, Table 3.5 and Table 3.6, respectively.



Table 3.1 : File Layout

| FILE LAYOUT | | | | |
|-------------|------------|----------------------|------|-------|
| File Name | | DRAWMAS.DBF | | |
| File Length | | 141 | | |
| Field | Field Name | Description | Type | Width |
| 1 | DRDRWNO | DRAWING NUMBER | C | 10 |
| 2 | DRREVNO | REVISION NUMBER | C | 1 |
| 3 | DRTITLE | DRAWING TITLE | C | 60 |
| 4 | DRPROJCD | PROJECT CODE | N | 5 |
| 5 | DRLOCCD | LOCATION CODE | C | 5 |
| 6 | DRORGCD | ORIGINATOR CODE | C | 5 |
| 7 | DRDISCD | DISCIPLINE CODE | C | 5 |
| 8 | DRSTSCD | STATUS CODE | C | 3 |
| 9 | DRRCDT | RECEIVED DATE | DATE | 8 |
| 10 | DRLREV | LAST REVISION NUMBER | C | 1 |
| 11 | DRLAMDDT | LAST AMENDMENT DATE | DATE | 8 |
| 12 | DRREM | REMARK | C | 30 |

Table 3.2 : File Layout

| FILE LAYOUT | | | | |
|-------------|------------|--------------|------|-------|
| File Name | | PROJMAS.DBF | | |
| File Length | | 55 | | |
| Field | Field Name | Description | Type | Width |
| 1 | PROJCD | PROJECT CODE | N | 5 |
| 2 | PROJNAME | PROJECT NAME | C | 50 |



Table 3.3 : File Layout

| FILE LAYOUT | | | | |
|-------------|------------|-------------|------|-------|
| File Name | | STSMAS.DBF | | |
| File Length | | 33 | | |
| Field | Field Name | Description | Type | Width |
| 1 | STSCODE | STATUS CODE | C | 3 |
| 2 | STSNAME | STATUS NAME | C | 30 |

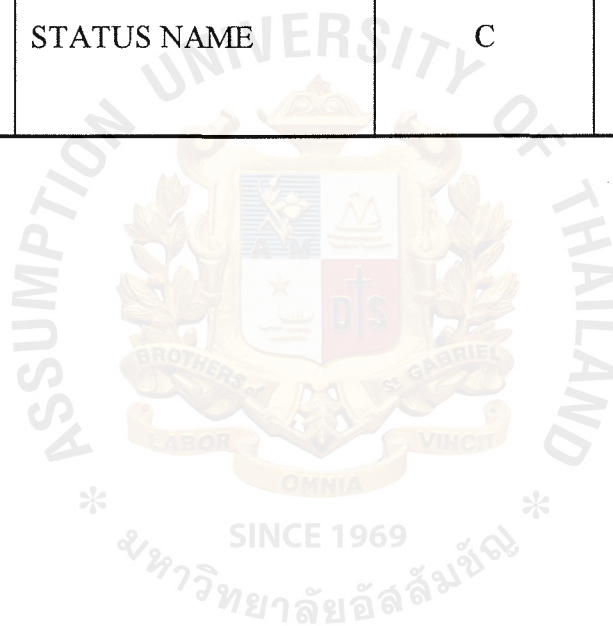


Table 3.4 : File Layout

| FILE LAYOUT | | | | |
|-------------|------------|-----------------|------|-------|
| File Name | | DISMAS.DBF | | |
| File Length | | 35 | | |
| Field | Field Name | Description | Type | Width |
| 1 | DISCODE | DISCIPLINE CODE | C | 5 |
| 2 | DISNAME | DISCIPLINE NAME | C | 30 |

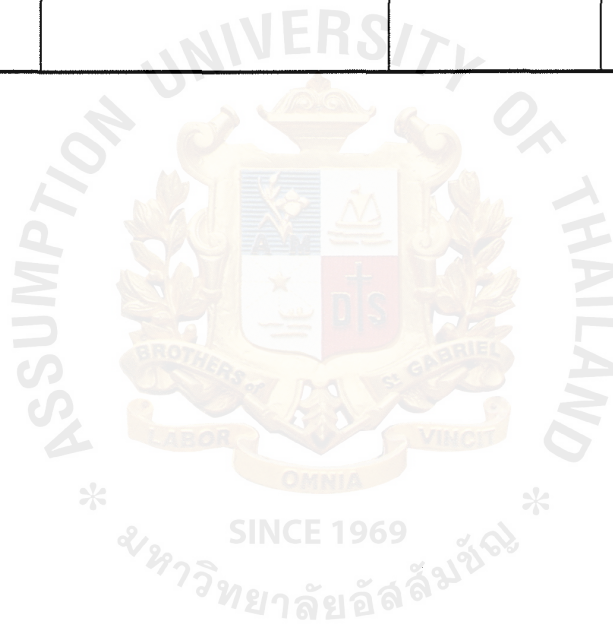


Table 3.5 : File Layout

| FILE LAYOUT | | | | |
|-------------|------------|---------------|------|-------|
| File Name | | LOCMAS.DBF | | |
| File Length | | 20 | | |
| Field | Field Name | Description | Type | Width |
| 1 | LOCCODE | LOCATION CODE | C | 5 |
| 2 | LOCNAME | LOCATION NAME | C | 15 |



Table 3.6 : File Layout

| FILE LAYOUT | | | | |
|-------------|------------|------------------|------|-------|
| File Name | | ORGMAS.DBF | | |
| File Length | | 123 | | |
| Field | Field Name | Description | Type | Width |
| 1 | ORGCODE | ORIGINATOR CODE | C | 5 |
| 2 | ORGNAME | ORIGINATOR NAME | C | 30 |
| 3 | ORGADDR1 | ADDRESS1 | C | 40 |
| 4 | ORGADDR2 | ADDRESS2 | C | 40 |
| 5 | ORGTELNO | TELEPHONE NUMBER | N | 8 |

3.3 Hardware and Software Requirement

The proposed system hardware and software requirements are shown as follows :

3.3.1 Hardware Specification

- Personal Computer 1 set
 - CPU Pentium 75 MHz
 - 8 MB Memory on board
 - 630 MB Harddisk Drive
 - 14" Color SVGA Monitor
 - 1.44 MB Floppy Disk Drive
 - Keyboard 101 keys, Mouse
- UPS : 500 VA 1 set
- Printer 1 set
 - NEC Dot Matrix

3.3.2 Software Specification

- Operating System : DOS version 6
- Program Language : FOXPRO

3.4 Security and Control

Security aspects are defined as follows :

3.4.1 Physical Security

- Computer room should be located in a secure place and it should be locked when nobody is inside.
- Users are not allowed to bring any kind of food into computer room.
- All computer hardware must be locked after nobody use them.
- Secondary storage should be treated carefully.

3.4.2 Data Security

- Only authorized person can access the system and they must log out every time after using computer.
- Backups of files should be done every time they have been changed. And full backups should be done periodically so that entire system can be replaced in the event of failure.
- All secondary storage should be kept in a secure place.

3.5 Cost/Benefit Analysis

3.5.1 Cost of Manual System

The cost of manual system will include the following :

| | Baht/month | Baht/year |
|---------------------|--------------|---------------|
| - Staff salary | 5,000 | 60,000 |
| - Stationery cost | 100 | 1,200 |
| - Telephone cost | <u>500</u> | <u>6,000</u> |
| Total manual cost = | <u>5,600</u> | <u>67,200</u> |



3.5.2 Cost of Computerized System

The cost of computerized system will include the following :

- Installation cost

- Hardware cost

- Personal computer 37,000 Baht

- Printer 15,000 Baht

- UPS 10,000 Baht

Total hardware cost = 62,000 Baht

- Software cost

- Foxpro 2,000 Baht

- Software development cost 3,000 Baht

Total software cost = 5,000 Baht

Total Installation cost = 67,000 Baht

Average uses of machine life is 5 years,

So, the cost of machine is 13,400 Baht/year

- Maintenance cost

1 % per month of machine price 620 Baht/month

or 7,440 Baht/year

- Staff salary 5,000 Baht/month

or 60,000 Baht/year

Total cost of computerized system = 80,840 Baht/year

(machine cost, maintenance cost,

employee cost)

3.5.3 Comparison between Cost of Manual System and Cost of Computerized System.

From the cost analysis, it can be seen that the initial cost of computerized system is greater than the cost of manual system. The estimated cost of manual system is 5,600 baht and the initial estimated cost of computerized system is 67,000 baht.

As time goes by the total cost of manual system would be higher than the total cost of computerized system because one operator would not be enough to handle all the operations in the manual system, more personnel is required so the cost will increase. But in the computerized system, only one personnel is enough to handle all the operations.

A Break-even analysis is shown on Figure 3.6. The graph shows that the total cost of manual system would be higher than the total cost of computerized system after one year and four month.

So the computerized system is a cost-effective method in handling the operation of keeping drawing records. It takes less time and requires less cost in the long run.

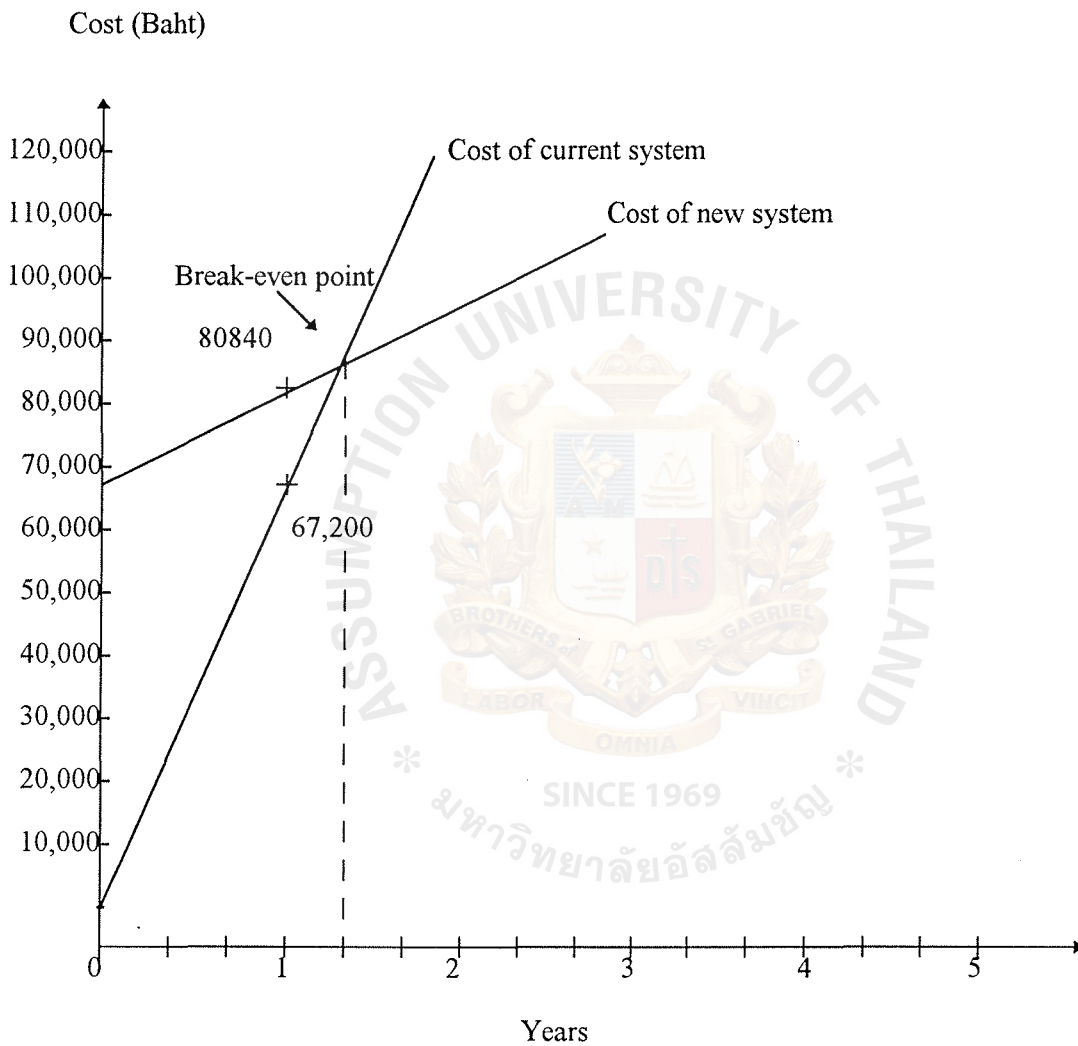


Figure 3.6 : Break-even Analysis

3.5.4 Benefit Analysis

The proposed system will produce benefits that are classified as follows :

- Tangible benefit

- telephone cost 500 baht/month

- Intangible benefit

- Redundancy of data is reduced
 - Improved efficiency of operations
 - Duplication of work is eliminated
 - Enhancing accuracy of information
 - Reduce time in searching required data

4. PROJECT IMPLEMENTATION

4.1 Overview of Project Implementation Schedule

The project implementation includes installation, training and conversion. They can be described as follows :

- Installation :

Installation is the process of physically placing the computer equipment on the site and making it operational. The computer equipment was ordered from the supplier 8 weeks in advanced of the time it would be needed. Prior to the arrival of the equipment, electricians were contacted to assist in the site preparation. New electrical lines were installed for the computer system. After the system is installed, several test are performed by the supplier to ensure that the equipment is operating as it should.

- Training :

Training was conducted for the employee who will be using or dealing with the computer system. Users were trained in methods of entering transactions, editing data, formulating inquiries, deleting records and running reports. Also some troubleshooting were given to users.

- Conversion :

Master files were converted from manual to computer form. The entry of data to build the master files took 2 to 3 weeks. During that time, drawing & specifications were accepted but not processed. At the end of conversion, they were entered into the system and all work was processed and up-to-date.

4.2 Test Plan and Results

The test plan can be defined as follows :

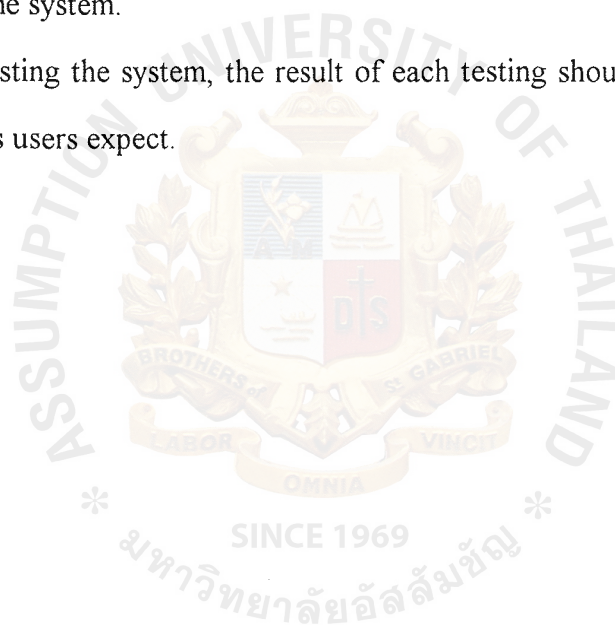
- Program testing with test data :

Programmers must first check their programs to verify the way the system will work and create both valid and invalid test data.

- System testing with test data :

The entire system is run. Everyone involved should determine whether the system is doing what it is supposed to do. At this period, end users and operator actually interact with the system.

After testing the system, the result of each testing should ensure that the system will work as users expect.



5. CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

The purpose of this project is to design and implement a Drawing Register System. The entire study is conducted to improve the existing operation of Engineer department and solving problems that occurred from using manual system.

The process started with the analysis of the existing system and defined user requirements. The analysis phases are conducted by using the structural analysis technique such as context diagram, data flow diagram and data dictionary.

The new system will provide correct and reliable drawing register system, on-line queried response and required reports. It can improve efficiency of operations, enhancing accuracy of information and reduce cost.

5.2 Recommendations

The drawing register system implemented for the company is one part of the whole organization tasks. The management should open their mind in accepting for new technology and should implement the computer system in the remaining parts especially in the designing of drawing & specification.

The recommendation for effective system implementation are as follows :

- Policies regarding computer security must be written so that employees are aware of their responsibilities.
- Improve staffs skill in using the computer.
- Invest for information technology including hardware and software.



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APPENDIX A
DATA DICTIONARY



TABLE A-1 : Data Dictionary for the Proposed System

| DATA DICTIONARY | |
|-------------------------|---|
| Building-Specification | *the customer's building specification.* |
| consult-name-rep | *the report that shows consultant code, name, address and telephone number.* |
| discipline-code | *the code of the kind of Consultant company, e.g., "EC" = Electrical Consultant.* [A-Z] |
| DISCIPLINE MASTER | discipline-code + discipline-name |
| discipline-name | *the name of the kind of Consultant company.* {legal-character} |
| discipline-name-rep | *the report that shows discipline code and name.* |
| district | {legal-character} |
| drawing & specification | drawing-number + revision-number + drawing-title + originator-name + project-name + location-name + discipline-name + status-name + received-date |
| drawing-details | drawing-number + revision-number + drawing-title + project-code + location-code + originator-code + discipline-code + status-code + received-date + last- revision-number + last-amendment-date + remark |
| drawing-history-rep | *the report that shows all revision number of each drawing & specification.* |
| DRAWING MASTER | drawing-number + revision-number + drawing-title + |

| DATA DICTIONARY | |
|---------------------------------------|---|
| | originator-code + project-code + location-code + discipline-code + status-code + received-date + last- revision-number + last-amendment-date + remark |
| drawing-number | *a unique number assigned to each drawing & specification.* {legal-character} |
| drawing-register-rep | *the report that shows drawing details* |
| drawing-rep-by-consultant- company | *the report that shows drawing details listed by consultant company.* |
| drawing-summary-rep | *the report that shows all drawing with last-revision- number.* |
| house-number | {legal-character} |
| last-amendment-date | *the last revision date of drawing & specification.* [dd/mm/yy] |
| last-revision-number | *the last revision number of each drawing & specification.* [A-Z] |
| location-code | *the unique code of location of project site.* [A-Z] |
| LOCATION MASTER | location-code + location-name |
| location-name | *the name of location of project site.* {legal-character} |

| DATA DICTIONARY | |
|--------------------|---|
| loc-name-rep | *the report that shows location code and name.* |
| originator-address | house-number + road + district + province + post-code |
| originator-code | *the code of Consultant company's name.* [A-Z] |
| ORIGINATOR MASTER | originator-code + originator-name + originator-address + telephone-number |
| originator-name | *the name of Consultant company.* {legal-character} |
| project-code | *a unique number of project site.* {numeric-digit} |
| project-name | *the name of project site.* {legal-character} |
| project-name-rep | *the report that shows project code and name.* |
| recipient-rep | *the report that shows drawing details and it will be sent to Consultant company.* |
| revision-number | *the revision number of each drawing & specification.* [A-Z] |
| status-code | *the code of status of drawing & specification.* [A-Z] |
| STATUS MASTER | status-code + status-name |
| status-name | *the name of status of drawing & specification.* {legal-character} |
| status-name-rep | *the report that shows status code and name.* |

APPENDIX B

DISPLAY SCREEN LAYOUTS



MAIN MENU

-
1. DRAWING REGISTER ENTRY
 2. PROJECT ENTRY AND MAINTENANCE
 3. LOCATION ENTRY AND MAINTENANCE
 4. ORIGINATOR ENTRY AND MAINTENANCE
 5. DISCIPLINE ENTRY AND MAINTENANCE
 6. STATUS ENTRY AND MAINTENANCE
 7. INQUIRY
 8. REPORTS

X. EXIT

PLEASE ENTER OPTION : _

Figure B-1 : Display Screen Layout of Main Menu of Drawing Register System

| | |
|---------------------------|----------|
| DRAWING REGISTER ENTRY | 99/99/99 |
| SUBMENU | |
| ===== | |
| 1. ADD NEW DRAWING RECORD | |
| 2. EDIT DRAWING RECORD | |
| 3. DELETE DRAWING RECORD | |
| | |
| M. MAIN MENU | |
| X. EXIT | |
| PLEASE ENTER OPTION : _ | |

Figure B-2 : Display Screen Layout of Submenu of Drawing Register Entry

| | | |
|---------------------------|---|----------------------|
| DRAWING REGISTER ENTRY | | 99/99/99 |
| -ADD RECORD- | | |
| <hr/> | | |
| PROJECT CODE | : | 99999 |
| LOCATION CODE | : | xxxxx |
| <hr/> | | |
| PRESS ENTER : TO CONTINUE | | F3 : PREVIOUS SCREEN |
| F7 | : | END OF JOB |

Figure B-3 : Display Screen Layout of Adding Drawing record

DRAWING REGISTER ENTRY

99/99/99

-ADD RECORD-

DRAWING NUMBER

: xxxxxxxxxx

REVISION NUMBER

: x

TITLE

: x-----30-----x

: x-----30-----x

ORIGINATOR CODE

: xxxxx

DISCIPLINE CODE

: xxxxx

STATUS CODE

: xxx

RECEIVED DATE

: 99/99/99

REMARK

: x-----30-----x

LAST REVISION NUMBER

: x

LAST AMENDMENT DATE

: 99/99/99

PRESS ENTER : TO CONTINUE

F9 : ADD

F3 : PREVIOUS SCREEN

F7 : END OF JOB

Figure B-4 : Display Screen Layout of Adding Drawing record

| DRAWING REGISTER ENTRY | | 99/99/99 |
|---------------------------|---|----------------------|
| -EDIT RECORD- | | |
| ===== | | |
| DRAWING NUMBER | : | XXXXXXXXXX |
| REVISION NUMBER | : | X |
| TITLE | : | X-----30-----X |
| | : | X-----30-----X |
| PROJECT CODE | : | 99999 |
| LOCATION CODE | : | XXXXX |
| ORIGINATOR CODE | : | XXXXX |
| DISCIPLINE CODE | : | XXXXX |
| STATUS CODE | : | XXX |
| RECEIVED DATE | : | 99/99/99 |
| REMARK | : | X-----30-----X |
| LAST REVISION NUMBER | : | X |
| LAST AMENDMENT DATE | : | 99/99/99 |
| ===== | | |
| PRESS ENTER : TO CONTINUE | | F3 : PREVIOUS SCREEN |
| F2 : UPDATE | * | F7 : END OF JOB |

Figure B-5 : Display Screen Layout of Editing Drawing record

| DRAWING REGISTER ENTRY | | 99/99/99 |
|---|---|-----------------|
| -DELETE RECORD- | | |
| ===== | | |
| DRAWING NUMBER | : | xxxxxxxxxx |
| REVISION NUMBER | : | x |
| CONFIRM TO DELETE [Y/N] : _ | | |
|  | | |
| ===== | | |
| PRESS F3 : PREVIOUS MENU * | | F7 : END OF JOB |

Figure B-6 : Display Screen Layout of Deleting Drawing record

SUBMENU

1. ADD NEW PROJECT

2. EDIT PROJECT

3. DELETE PROJECT

M. MAIN MENU

X. EXIT

PLEASE ENTER OPTION : _

Figure B-7 : Display Screen Layout of Submenu of Project Entry and Maintenance

| | | |
|-------------------------------|---------|----------------------|
| PROJECT ENTRY AND MAINTENANCE | | 99/99/99 |
| - ADD RECORD - | | |
| <hr/> | | |
| PROJECT CODE : 99999 | | |
| PROJECT NAME : x-----50-----x | | |
| <hr/> | | |
| PRESS ENTER : TO CONTINUE | | F3 : PREVIOUS SCREEN |
| F9 : ADD | * OMNIA | F7 : END OF JOB |

Figure B-8 : Display Screen Layout of Adding Project record

| PROJECT ENTRY AND MAINTENANCE | | 99/99/99 |
|-------------------------------|------------------|----------------------|
| -EDIT RECORD- | | |
| <hr/> | | |
| PROJECT CODE | : 99999 | |
| PROJECT NAME | : x-----50-----x | |
| <hr/> | | |
| PRESS ENTER : TO CONTINUE * | | F3 : PREVIOUS SCREEN |
| F2 | : UPDATE | F7 : END OF JOB |

Figure B-9 : Display Screen Layout of Editing Project record

| | | |
|-------------------------------|---|-----------------|
| PROJECT ENTRY AND MAINTENANCE | | 99/99/99 |
| -DELETE RECORD- | | |
| ===== | | |
| PROJECT CODE | : | 99999 |
| CONFIRM TO DELETE [Y/N] : _ | | |
| ===== | | |
| PRESS F3: PREVIOUS MENU | * | F7 : END OF JOB |

Figure B-10 : Display Screen Layout of Deleting Project record

| | |
|--------------------------------|----------|
| LOCATION ENTRY AND MAINTENANCE | 99/99/99 |
| SUBMENU | |
| <hr/> | |
| 1. ADD NEW LOCATION | |
| 2. EDIT LOCATION RECORD | |
| 3. DELETE LOCATION RECORD | |
| M. MAIN MENU | |
| X. EXIT | |
| PLEASE ENTER OPTION : _ | |

Figure B-11 : Display Screen Layout of Submenu of Location Entry and Maintenance

| | | |
|--------------------------------|--|----------------------|
| LOCATION ENTRY AND MAINTENANCE | | 99/99/99 |
| -ADD RECORD- | | |
| ===== | | |
| LOCATION CODE : xxxxx | | |
| LOCATION NAME : x-----15-----x | | |
| ===== | | |
| PRESS ENTER : TO CONTINUE | | F3 : PREVIOUS SCREEN |
| F9 : ADD | | F7 : END OF JOB |

Figure B-12 : Display Screen Layout of Adding Location record

| | | |
|--------------------------------|---|----------------------|
| LOCATION ENTRY AND MAINTENANCE | | 99/99/99 |
| -EDIT RECORD- | | |
| ===== | | |
| LOCATION CODE : xxxxx | | |
| LOCATION NAME : x-----15-----x | | |
| ===== | | |
| PRESS ENTER : TO CONTINUE | | F3 : PREVIOUS SCREEN |
| F2 : UPDATE | * | F7 : END OF JOB |

Figure B-13 : Display Screen Layout of Editing Location record

| | | |
|--------------------------------|---|-----------------|
| LOCATION ENTRY AND MAINTENANCE | | 99/99/99 |
| -DELETE RECORD- | | |
| <hr/> | | |
| LOCATION CODE | : | xxxxx |
| CONFIRM TO DELETE [Y/N] : _ | | |
| <hr/> | | |
| PRESS F3 : PREVIOUS MENU | | F7 : END OF JOB |

Figure B-14 : Display Screen Layout of Deleting Location record

ORIGINATOR ENTRY AND MAINTENANCE

99/99/99

SUBMENU

-
1. ADD NEW ORIGINATOR
 2. EDIT ORIGINATOR RECORD
 3. DELETE ORIGINATOR RECORD

M. MAIN MENU

X. EXIT

PLEASE ENTER OPTION : _



Figure B-15 : Display Screen Layout of Submenu of Originator Entry and Maintenance

ORIGINATOR ENTRY AND MAINTENANCE

99/99/99

-ADD RECORD-

ORIGINATOR CODE : xxxxx

ORIGINATOR NAME : x-----30-----x

ADDRESS 1 : x-----40-----x

ADDRESS 2 : x-----40-----x

TELEPHONE NO. : 9999999-9

PRESS ENTER : TO CONTINUE

F3 : PREVIOUS SCREEN

F9 : ADD

F7 : END OF JOB

Figure B-16 : Display Screen Layout of Adding Originator record

ORIGINATOR ENTRY AND MAINTENANCE

99/99/99

-EDIT RECORD-

ORIGINATOR CODE : xxxxx

ORIGINATOR NAME : x-----30-----x

ADDRESS 1 : x-----40-----x

ADDRESS 2 : x-----40-----x

TELEPHONE NO. : 9999999-9

PRESS ENTER : TO CONTINUE

F2 : UPDATE

F3 : PREVIOUS SCREEN

F7 : END OF JOB

Figure B-17 : Display Screen Layout of Editing Originator record

| | | |
|----------------------------------|---|-------------------|
| ORIGINATOR ENTRY AND MAINTENANCE | | 99/99/99 |
| -DELETE RECORD- | | |
| ===== | | |
| ORIGINATOR CODE | : | xxxxx |
| | | |
| CONFIRM TO DELETE [Y/N] | : | _ |
| | | |
| ===== | | |
| PRESS F3 : PREVIOUS MENU * | | * F7 : END OF JOB |

Figure B-18 : Display Screen Layout of Deleting Originator record

| DISCIPLINE ENTRY AND MAINTENANCE | | 99/99/99 |
|----------------------------------|--|----------|
| SUBMENU | | |
| <hr/> | | |
| 1. ADD NEW DISCIPLINE | | |
| 2. EDIT DISCIPLINE RECORD | | |
| 3. DELETE DISCIPLINE RECORD | | |
| M. MAIN MENU | | |
| X. EXIT | | |
| PLEASE ENTER OPTION : _ | | |




Figure B-19 : Display Screen Layout of Submenu of Discipline Entry and Maintenance

DISCIPLINE ENTRY AND MAINTENANCE

99/99/99

-ADD RECORD-

DISCIPLINE CODE : xxxxx

DISCIPLINE NAME : x-----30-----x

PRESS ENTER : TO CONTINUE

F9 : ADD

F3 : PREVIOUS SCREEN

F7 : END OF JOB

Figure B-20 : Display Screen Layout of Adding Discipline record

DISCIPLINE ENTRY AND MAINTENANCE

99/99/99

-EDIT RECORD-

DISCIPLINE CODE : xxxxx

DISCIPLINE NAME : x-----30-----x

PRESS ENTER : TO CONTINUE

F2 : UPDATE

F3 : PREVIOUS SCREEN

F7 : END OF JOB

Figure B-21 : Display Screen Layout of Editing Discipline record

| | | |
|----------------------------------|---|-------------------|
| DISCIPLINE ENTRY AND MAINTENANCE | | 99/99/99 |
| -DELETE RECORD- | | |
| ===== | | |
| DISCIPLINE CODE | : | xxxxx |
| CONFIRM TO DELETE [Y/N] : _ | | |
| ===== | | |
| PRESS F3 : PREVIOUS MENU * | | * F7 : END OF JOB |

Figure B-22 : Display Screen Layout of Deleting Discipline record

SUBMENU

-
1. ADD NEW STATUS
 2. EDIT STATUS RECORD
 3. DELETE STATUS RECORD

M. MAIN MENU

X. EXIT

PLEASE ENTER OPTION : _

Figure B-23 : Display Screen Layout of Submenu of Status Entry and Maintenance

| | | |
|------------------------------|---|----------------------|
| STATUS ENTRY AND MAINTENANCE | | 99/99/99 |
| -ADD RECORD- | | |
| <hr/> | | |
| STATUS CODE : xxx | | |
| STATUS NAME : x-----30-----x | | |
| <hr/> | | |
| PRESS ENTER : TO CONTINUE | | F3 : PREVIOUS SCREEN |
| F9 : ADD | * | F7 : END OF JOB |

Figure B-24 : Display Screen Layout of Adding Status record

| | | |
|------------------------------|---|----------------------|
| STATUS ENTRY AND MAINTENANCE | | 99/99/99 |
| -EDIT RECORD- | | |
| ===== | | |
| STATUS CODE : xxx | | |
| STATUS NAME : x-----30-----x | | |
| ===== | | |
| PRESS ENTER : TO CONTINUE | | F3 : PREVIOUS SCREEN |
| F2 : UPDATE | * | F7 : END OF JOB |

Figure B-25 : Display Screen Layout of Editing Status record

| | | |
|------------------------------|---|-------------------|
| STATUS ENTRY AND MAINTENANCE | | 99/99/99 |
| -DELETE RECORD- | | |
| ===== | | |
| STATUS CODE | : | xxx |
| CONFIRM TO DELETE [Y/N] : _ | | |
| ===== | | |
| PRESS F3 : PREVIOUS MENU * | | * F7 : END OF JOB |

Figure B-26 : Display Screen Layout of Deleting Status record

INQUIRY MENU

-
1. DRAWING INQUIRY
 2. PROJECT CODE INQUIRY
 3. LOCATION CODE INQUIRY
 4. ORIGINATOR CODE INQUIRY
 5. DISCIPLINE CODE INQUIRY
 6. STATUS CODE INQUIRY

M. MAIN MENU

X. EXIT

PLEASE ENTER OPTION : _

Figure B-27 : Display Screen Layout of Inquiry Menu

| DRAWING INQUIRY | | 99/99/99 |
|----------------------------|--|----------|
| SUBMENU | | |
| <hr/> | | |
| 1. DRAWING INQUIRY | | |
| 2. DRAWING HISTORY INQUIRY | | |
| P. PREVIOUS MENU | | |
| X. EXIT | | |
| PLEASE ENTER OPTION : _ | | |




Figure B-28 : Display Screen Layout of Submenu of Drawing Inquiry

| DRAWING INQUIRY | | | | | | | 99/99/99 |
|--|------|----------------|----------------|--------|--------|----------|----------------|
| DRAWING NUMBER : xxxxxxxxxxxx | | | | | | | |
| LAST | | | | LAST | | | |
| DRAWING | REV. | DRAWING | ORIGINATOR | DISCP. | STATUS | AMEND. | REMARK |
| NUMBER | NO. | TITLE | NAME | CODE | CODE | DATE | |
| xxxxxxxxxx | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| xxxxxxxxxx | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| xxxxxxxxxx | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| xxxxxxxxxx | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| xxxxxxxxxx | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| PAGE UP/DOWN : SCROLL FORWARD/BACKWARD F7 : END OF JOB | | | | | | | |

Figure B-29 : Display Screen Layout of Drawing Inquiry

DRAWING HISTORY INQUIRY

99/99/99

DRAWING NUMBER : xxxxxxxxxxxx

| DRAWING NUMBER | REV. NO. | DRAWING TITLE | ORIGINATOR NAME | DISCP. CODE | STATUS CODE | RECEIVED DATE | REMARK |
|-------------------|-------------|---------------|--------------------|----------------|----------------|------------------|--------|
|-------------------|-------------|---------------|--------------------|----------------|----------------|------------------|--------|

| | | | | | | | |
|------------|---|----------------|----------------|-------|-----|----------|----------------|
| xxxxxxxxxx | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| xxxxxxxxxx | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |
| xxxxxxxxxx | x | x-----30-----x | x-----15-----x | xxxxx | xxx | 99/99/99 | x-----15-----x |
| | | x-----30-----x | x-----15-----x | | | | x-----15-----x |

PAGE UP/DOWN : SCROLL FORWARD/BACKWARD

F7 : END OF JOB

Figure B-30 : Display Screen Layout of Drawing History Inquiry

PROJECT CODE INQUIRY

99/99/99

PROJECT NAME : x-----50-----x

PROJECT CODE

PROJECT NAME

| | |
|-------|----------------|
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |
| 99999 | x-----50-----x |

PAGE UP/DOWN : SCROLL FORWARD/BACKWARD

* F7 : END OF JOB

Figure B-31 : Display Screen Layout of Project Code Inquiry

LOCATION CODE INQUIRY

99/99/99

LOCATION NAME : x-----15-----x

LOCATION CODE

LOCATION NAME

| | |
|-------|----------------|
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |
| XXXXX | x-----15-----x |

PAGE UP/DOWN : SCROLL FORWARD/BACKWARD

F7 : END OF JOB

Figure B-32 : Display Screen Layout of Location Code Inquiry

ORIGINATOR CODE INQUIRY

99/99/99

ORIGINATOR NAME : x-----30-----x

ORIGINATOR CODE

ORIGINATOR NAME

| | |
|-------|----------------|
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |

PAGE UP/DOWN : SCROLL FORWARD/BACKWARD

F7 : END OF JOB

Figure B-33 : Display Screen Layout of Originator Code Inquiry

DISCIPLINE CODE INQUIRY

99/99/99

DISCIPLINE NAME : x-----30-----x

| DISCIPLINE CODE | DISCIPLINE NAME |
|-----------------|-----------------|
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |
| XXXXX | x-----30-----x |

PAGE UP/DOWN : SCROLL FORWARD/BACKWARD

F7 : END OF JOB

Figure B-34 : Display Screen Layout of Discipline Code Inquiry

STATUS CODE INQUIRY

99/99/99

STATUS NAME : x-----30-----x

STATUS CODE

STATUS NAME

| | |
|-----|----------------|
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |
| xxx | x-----30-----x |

PAGE UP/DOWN : SCROLL FORWARD/BACKWARD

* F7 : END OF JOB

Figure B-35 : Display Screen Layout of Status Code Inquiry

REPORT MENU

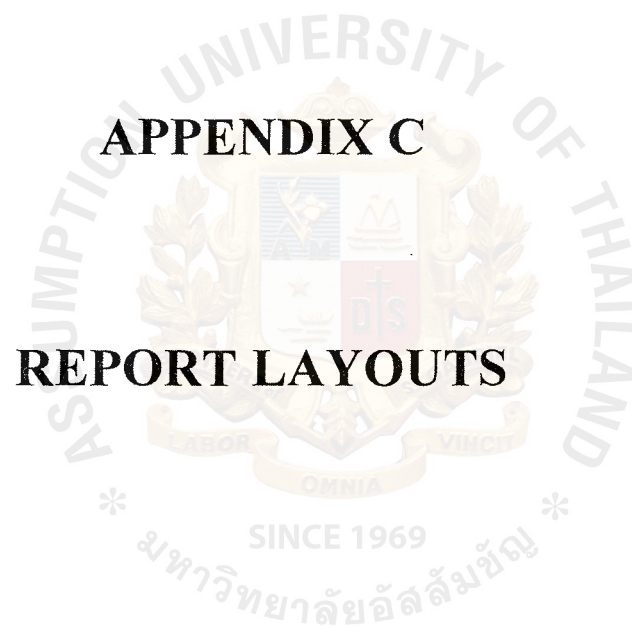
-
1. DRAWING REGISTER REPORT
 2. DRAWING SUMMARY REPORT
 3. DRAWING HISTORY REPORT
 4. DRAWING STATUS REPORT
 5. DRAWING REPORT BY CONSULTANT COMPANY
 6. CONSULTANT NAME REPORT
 7. RECIPIENT REPORT
 8. PROJECT NAME REPORT
 9. LOCATION NAME REPORT
 10. STATUS NAME REPORT
 11. DISCIPLINE NAME REPORT
 - M. MAIN MENU
 - X. EXIT

PLEASE ENTER OPTION : _

Figure B-36 : Display Screen Layout of Report Menu

APPENDIX C

REPORT LAYOUTS



DRAWING REGISTER REPORT

RECEIVED DATE FROM 99/99/99 TO 99/99/99

| DRAWING NUMBER | REV. | DRAWING TITLE | ORIGINATOR NAME | DISCIPLINE CODE | STATUS CODE | RECEIVED DATE | REMARK |
|-------------------|------|----------------|--------------------|--------------------|----------------|------------------|----------------|
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |
| XXXXXXXXXX | X X | 60-----60----- | X X-----30----- | XXXX | XXX | 99/99/99 | X-----30-----X |

Figure C-1 : Report Layout of Drawing Register Report

DRAWING SUMMARY REPORT

DRAWING NUMBER FROM xxxxxxxxxxxx TO xxxxxxxxxxxx

| LAST | | LAST | |
|------------|----------|----------------|----------------|
| DRAWING | REVISION | DRAWING TITLE | ORIGINATOR |
| NUMBER | NUMBER | | NAME |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |
| xxxxxxxxxx | X | X-----60-----X | X-----30-----X |

Figure C-2 : Report Layout of Drawing Summary Report

DRAWING HISTORY REPORT

DRAWING NUMBER FROM xxxxxxxxxxxx TO xxxxxxxxxxxx

| DRAWING NUMBER | REVISION NUMBER | DRAWING TITLE | ORIGINATOR NAME | DISCIPLINE CODE | STATUS CODE | RECEIVED DATE | REMARK |
|-------------------|--------------------|----------------|--------------------|--------------------|----------------|------------------|----------------|
| xxxxxxxxxx | x | x-----60-----x | x-----30-----x | xxxxx | xxx | 99/99/99 | x-----30-----x |
| | x | x-----60-----x | x-----30-----x | xxxxx | xxx | 99/99/99 | x-----30-----x |
| | x | x-----60-----x | x-----30-----x | xxxxx | xxx | 99/99/99 | x-----30-----x |
| xxxxxxxxxx | x | x-----60-----x | x-----30-----x | xxxxx | xxx | 99/99/99 | x-----30-----x |
| | x | x-----60-----x | x-----30-----x | xxxxx | xxx | 99/99/99 | x-----30-----x |
| xxxxxxxxxx | x | x-----60-----x | x-----30-----x | xxxxx | xxx | 99/99/99 | x-----30-----x |
| | x | x-----60-----x | x-----30-----x | xxxxx | xxx | 99/99/99 | x-----30-----x |

Figure C-3 : Report Layout of Drawing History Report

STATUS NAME : X-----30-----X

DRAWING STATUS REPORT

| | | LAST | | | | LAST | | | |
|------------|----------|---------------|---------|---------------|------------|-----------|---------------|---|---|
| DRAWING | REVISION | DRAWING TITLE | | ORIGINATOR | DISCIPLINE | AMENDMENT | REMARK | | |
| NUMBER | NUMBER | | | NAME | CODE | DATE | | | |
| XXXXXXXXXX | X | X----- | 60----- | X-----30----- | XXXXX | 99/99/99 | X-----30----- | X | X |
| XXXXXXXXXX | X | X----- | 60----- | X-----30----- | XXXXX | 99/99/99 | X-----30----- | X | X |
| XXXXXXXXXX | X | X----- | 60----- | X-----30----- | XXXXX | 99/99/99 | X-----30----- | X | X |
| XXXXXXXXXX | X | X----- | 60----- | X-----30----- | XXXXX | 99/99/99 | X-----30----- | X | X |
| XXXXXXXXXX | X | X----- | 60----- | X-----30----- | XXXXX | 99/99/99 | X-----30----- | X | X |
| XXXXXXXXXX | X | X----- | 60----- | X-----30----- | XXXXX | 99/99/99 | X-----30----- | X | X |
| XXXXXXXXXX | X | X----- | 60----- | X-----30----- | XXXXX | 99/99/99 | X-----30----- | X | X |
| XXXXXXXXXX | X | X----- | 60----- | X-----30----- | XXXXX | 99/99/99 | X-----30----- | X | X |

Figure C-4 : Report Layout of Drawing Status Report

DRAWING REPORT

ORIGINATOR NAME: X-----30-----X

[illegible]

Figure C-5 : Report Layout of Drawing Report by Consultant Company

STATUS NAME REPORT

| STATUS CODE | STATUS NAME |
|-------------|----------------|
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |

Figure C-10 : Report Layout of Status Name Report

DISCIPLINE NAME REPORT

| DISCIPLINE CODE | DISCIPLINE NAME |
|-----------------|-----------------|
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |
| XXXXX | X-----30-----X |

Figure C-11 : Report Layout of Discipline Name Report



